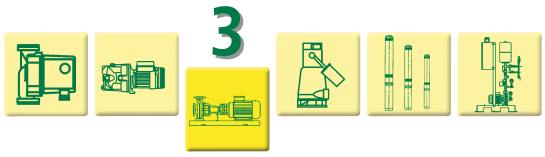
CENTRIFUGAL PUMPS



DAB

PUMP PERFORMANCE

DWT GROUP

PUMPS • MOTORS • ELECTRONICS

TECHNICAL CATALOGUE SECTIONS:

1 WET ROTOR CIRCULATORS AND IN-LINE PUMPS

2 SELF-PRIMING AND MULTISTAGE CENTRIFUGAL PUMPS

3 CENTRIFUGAL PUMPS

4 SUBMERSIBLE PUMPS

5 SUBMERGED PUMPS

6 BOOSTER SETS

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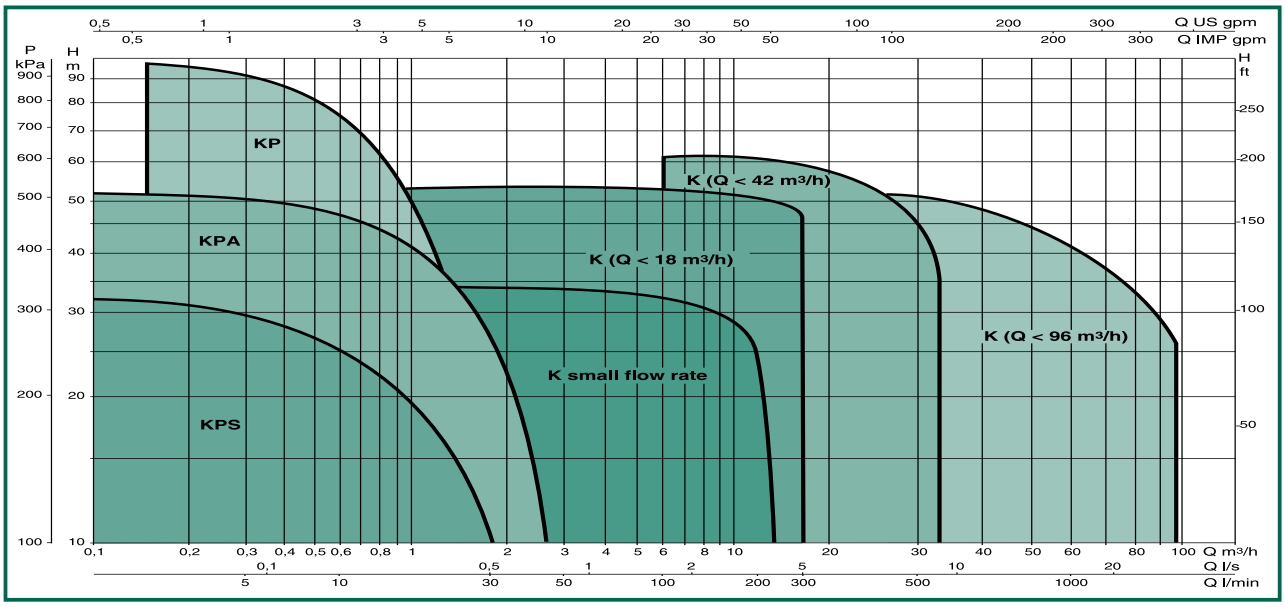
PERFORMANCE RANGE

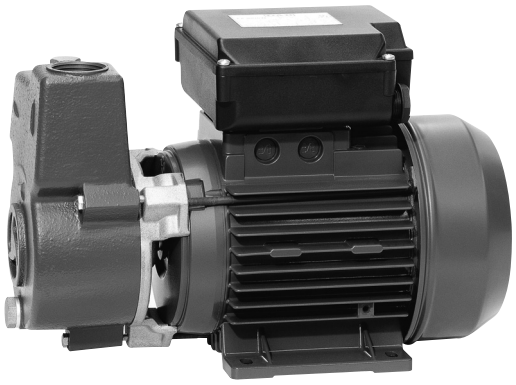
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

NUMERICAL AND GRAPHICAL SELECTION TABLE



MODEL		P2 NOMINAL		Q m³/h	0	0,3	0,6	0,9	1,2	1,8	2,4	3,6	4,8	6	7,2	9	9,6	10,8	12	15	18	24	30	36	42	60	72	84	96
SINGLE-PHASE	THREE-PHASE	kW	HP	l/min	0	5	10	15	20	30	40	60	80	100	120	150	160	180	200	250	300	400	500	600	700	1000	1200	1400	1600
KPA 40/20 M	KPA 40/20 T	0,75	1		53	51	48	43	38	27	16																		
KPS 30/16 M	KPS 30/16 T	0,3	0,4		32,5	31	25	22	17,5	10																			
KPF 30/16 M	KPF 30/16 T	0,3	0,4	H	32,5	31	25	22	17,5	10																			
KP 38/18 M	KP 38/18 T	0,6	0,8	(m)	54	50	46	41	36	27,5	17,5																		
KP 60/6 M	KP 60/6 T	0,37	0,5		87	57	33	13																					
KP 60/12 M	KP 60/12 T	0,75	1		107	91	74	58	43	17																			
K 20/41M	K 20/41 T	0,37	0,5		22					20,2	19,4	17	13,5	8															
K 30/70 M	K 30/70 T	0,75	1		31,8					29,5	28,9	27	24,2	19,8	13,5														
K 30/100 M	K 30/100 T	1,1	1,5		29,2						29	28,8	28	26,8	25,3	22,5	21,5	18,5											
K 36/100 M	K 36/100 T	1,85	2,5		34,9						34,8	34,6	34	33	32	29,8	29	26,5											
K 12/200 M	K 12/200 T	0,75	1		18,4						17,2	16,5	16	15,3	14,7	13,5	13,1	12,3	11,4	8,9	5,5								
K 35/40 M	K 35/40 T	0,75	1		43,5				41,5	40	38	33	23,5																
K 45/50 M	K 45/50 T	1,1	1,5	H	51				49	47,5	46	42	37	30															
K 55/50 M	K 55/50 T	1,85	2,5	(m)	62				60	58	57	52	45	34															
K 35/100 M	K 35/100 T	1,1	1,5		38,5						37,5	36,5	35	32	28,5	18,5	17,5												
K 40/100 M	K 40/100 T	1,85	2,5		44						43,4	42,5	41	39	35,7	29	26	18,5											
K 20/41 M	K 20/41 T	0,37	0,5		22					20,2	19,4	17	13,5	8															
K 30/70 M	K 30/70 T	0,75	1		31,8					29,5	28,9	27	24,2	19,8	13,5														
K 30/100 M	K 30/100 T	1,1	1,5		29,2						29	28,8	28	26,8	25,3	22,5	21,5	18,5											
K 36/100 M	K 36/100 T	1,85	2,5		34,9						34,8	34,6	34	33	32	29,8	29	26,5											
K 12/200 M	K 12/200 T	0,75	1		18,4						17,2	16,5	16	15,3	14,7	13,5	13,1	12,3	11,4	8,9	5,5								
–	K 36/200 T	2,2	3		36,6								36	35,5	35	34	33,3	32,5	31,5	28	23,5								
–	K 40/200 T	3	4		41,3								41	40,5	40	39	38,8	38	37	33,5	29								
–	K 55/200 T	4	5,5		54									54	53,9	53,2	53	52	51,5	48,5	45								
K 14/400 M	K 14/400 T	1,85	2,5		19														18,8	18,5	18	16,3	13,8	10					
–	K 11/500 T	2,2	3		24,5														22,5	21,5	20	16,5	11,5	6,5					
–	K 18/500 T	3	4		29,6														29,2	28,5	27,4	24	19,5	13,8					
–	K 28/500 T	4	5,5	H	35														34,5	34	32,8	29,3	25,2	20					
–	K 40/400 T	5,5	7,5	(m)	50,5														49	48	45	37	24						
–	K 50/400 T	7,5	10		62														61	60	59	54,5	46						
–	K 30/800 T	7,5	10		44																	42	40	38	35	21,5			
–	K 40/800 T	9,2	12,5		51,5																	50	48	47	43,5	32,5	21		
–	K 50/800 T	11	15		58																	56,5	55	53,5	51	41	31		
–	K 20/1200 T	7,5	10		37,5																	36,5	36	35	34	30	26	21	15
–	K 25/1200 T	9,2	12,5		40,7																	39	38,5	38	37	33,5	30	25	18
–	K 35/1200 T	11	15		45																			43	42,5	38,5	35	31,5	27

KPA
PUMP WITH SIDE LIQUID CHANNEL



CE

GENERAL DATA

Applications
Self-priming pump with side liquid channel and star-shaped impeller, with excellent suction capacities even in unfavourable operating conditions such as the presence of air bubbles or lack of continuity in the sucked liquid. Used in domestic, agricultural civil and industrial installations.

Constructional features of the pump
Cast iron pump body with brass pressure disc.
Motor support and impeller completely made of brass, to prevent the risk of blockage.
Carbon/ceramic mechanical seal.
Stainless steel motor shaft.

Constructional features of the motor
Induction motor, closed and cooled with external ventilation.
Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life.
Built-in thermal and current overload protection in the single-phase version.
Three-phase motors should be protected with a suitable overload protection complying with the regulations in force. Capacitor permanently in circuit in the single phase version.
Manufactured according to CEI 2-3 and CEI 61-69 standards (EN 60335-2-41).
Motor protection: IP44
Terminal box protection: IP55
Insulation class: F

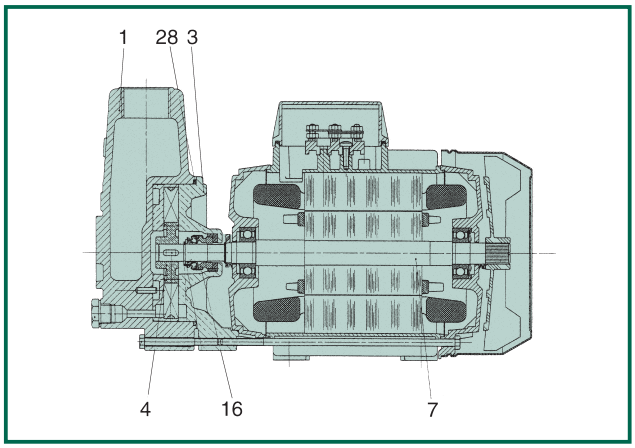
Standard voltage:	single-phase	220-240 V / 50 Hz
	three-phase	230-400 V / 50 Hz

DAB PUMPS reserve the right to make modifications without prior notice

TECHNICAL DATA

N.	PARTS*	MATERIALS
1	PUMP BODY	CAST IRON 250 ISO UNI 185 with brass pressure disc PCu Zn 40 Pb2 UNI 5705/65
3	SUPPORT	BRASS PCu Zn 40 Pb2 UNI 5705/65
4	IMPELLER	BRASS PCu Zn 40 Pb2 UNI 5705/65
7	MOTOR SHAFT	STAINLESS STEEL AISI 416 X12 CrS 13 UNI 6900/71
16	MECHANICAL SEAL	CARBON/CERAMIC
28	OR GASKET	VITON

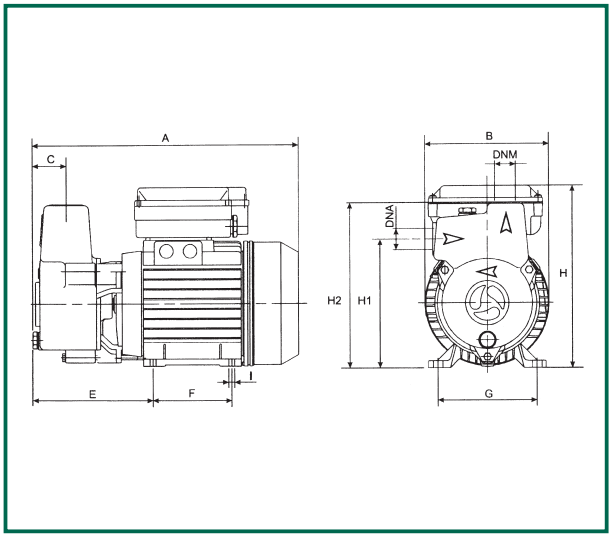
* In contact with the liquid.

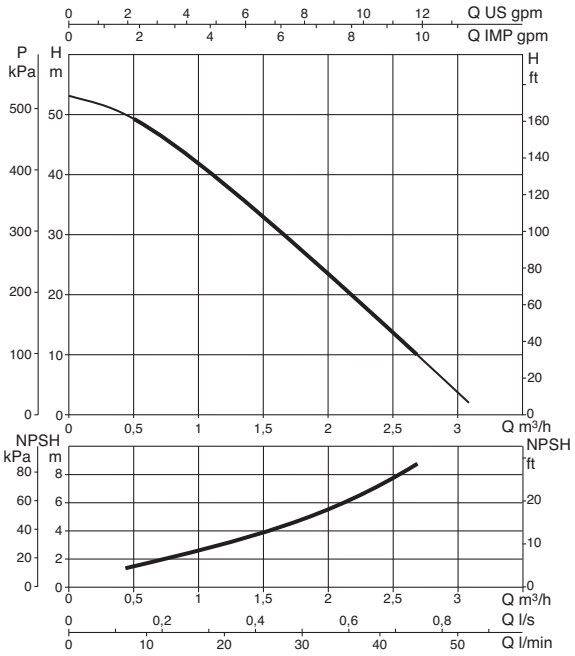


- Operating range: from 8 to 45 l/min with head up to 53 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range: from 0°C to +35°C for domestic use (EN 60335-2-41)
from -10°C to +80°C for other uses
- Maximum ambient temperature: +40°C
- Maximum operating pressure: 10 bar (1000 kPa)
- Installation: fixed in a horizontal position

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

KPA 40/20



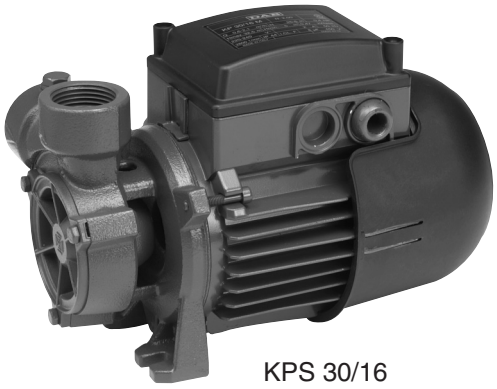


MODEL	A	B	C	E	F	G	IØ	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
KPA 40/20	301	142	38	136	90	112	7	206	146	187	1" G	1" G	406	267	402	0,044	10,7

MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2800 1/min)						
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	0,6	1,2	1,8	2,4	2,7
												Q l/min	0	10	20	30	40	45
KPA 40/20 M	1x220-240 V ~	1,05	0,75	1	4,7	17,3	2800	74,0	0,97	20	450	H (m)	53	48	38	27	16	10
KPA 40/20 T	3x230-400 V ~	1,0	0,75	1	3,6-2,1	24,3-14,07	2860	77,9	0,71	–	–							

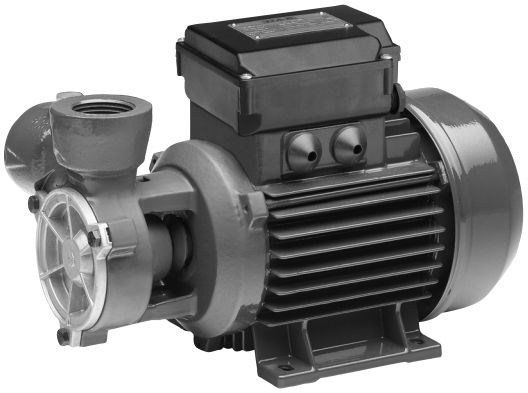
KPS - KPF - KP

PERIPHERAL PUMPS



KPS 30/16

KPF 30/16



KP 38/18

KP 60/6 - KP 60/12

CE

GENERAL DATA

Applications

Peripheral centrifugal pump with compact dimensions. Able to generate high heads and suitable for domestic installations, water supply systems, small gardening applications, draining and filling cisterns, and for small industrial uses such as feeding pressurized boilers (anti-condensation).

Constructional features of the pump

Brass pump body and motor support for KP 60/6 and KP 60/12.
Cast iron pump body with radial suction for KPS, frontal suction for KPF.
Motor support with brass wear disc for KPS 30/16 and KP 38/18.
KPS 30/16 is available on request with pump body and support in bronze.
Brass impeller.
Carbon/ceramic mechanical seal.

Constructional features of the motor

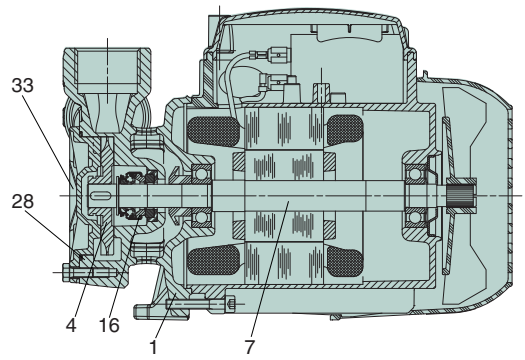
Induction motor, closed and cooled with external ventilation.
Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life.
Built-in thermal and current overload protection and a capacitor permanently in circuit in the single-phase version.
Three-phase motors should be protected with a suitable overload protection complying with the regulations in force.
Manufactured according to CEI 2-3 and CEI 61-69 standards (EN 60335-2-41).
Motor protection: IP44
Terminal box protection: IP55
Insulation class: F
Standard voltage: single-phase 220-240 V/50 Hz
three-phase 230-400 V/50 Hz

DAB PUMPS reserve the right to make modifications without prior notice

TECHNICAL DATA

N.	PARTS*	MATERIALS
1	PUMP BODY	CAST IRON 200 UNI ISO 185
4	IMPELLER	BRASS PCu Zn 40 Pb2 UNI 5705/65
7	SHAFT WITH ROTOR	STAINLESS STEEL AISI 416 X12 CrS 13 UNI 6900/71
16	MECHANICAL SEAL	CARBON/CERAMIC
28	OR GASKET	NBR
33	COVER	BRASS PCu Zn 40 Pb2 UNI 5705/65

* In contact with the liquid.

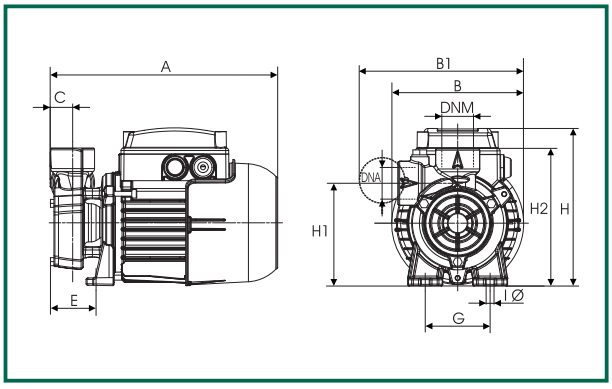


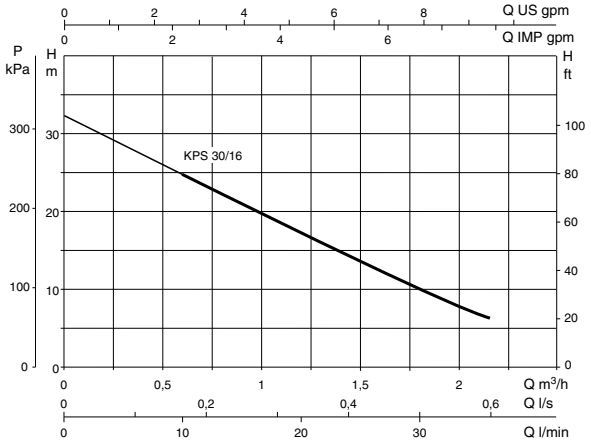
KPS

- Operating range: from 5 to 36 l/min with head up to 33 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range: from 0°C to +35°C for domestic use (EN 60335-2-41)
from -10°C to +50°C for other uses
- Maximum ambient temperature: +40°C
- Maximum operating pressure: 6 bar (600 kPa)
- Installation: fixed in a horizontal position
- Special executions on request: other voltages and/or frequencies

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

KPS 30/16





MODEL	A	B	B1	C	E	F	G	IØ	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
KPS 30/16	228	132	165	22	46	–	65	8	158	103	138	1" G	1" G	259	164	197	0,008	5,3

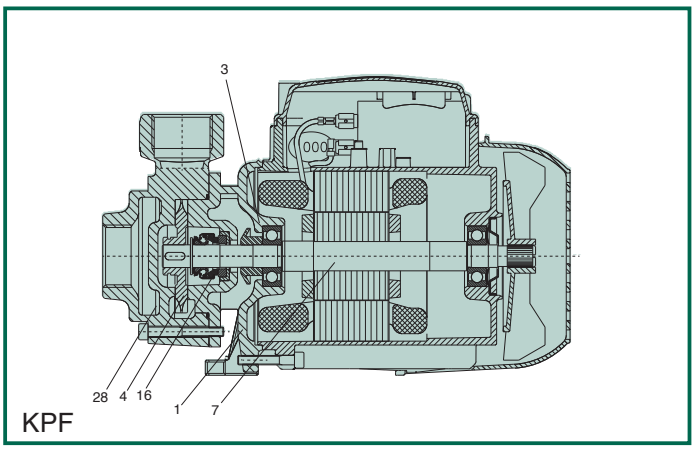
MODEL	ELECTRICAL DATA							HYDRAULIC DATA (n ~ 2800 1/min)						
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	0,3	0,6	0,9	1,2	1,8	2,16
								l/min	0	5	10	15	20	30	36
KPS 30/16 M	1x220-240 V ~	0,47	0,37	0,5	2	8	450	H (m)	32,5	28	25	22	17,5	10	6
KPS 30/16 T	3x230-400 V ~	0,47	0,37	0,5	1,4-0,8	–	–								

KPS 30/16 M are available on request: equipped with gauge, pressure switch, power cable and plug plus a three-way connection for connecting to a tank.

TECHNICAL DATA

N.	PARTS*	MATERIALS
1	PUMP BODY	G20 EN-GJL-250 UNI EN 1561
3	SUPPORT	G20 EN-GJL-250 UNI EN 1561
4	IMPELLER	BRASS PCu Zn 40 Pb2 UNI 5705/65
7	SHAFT WITH ROTOR	STAINLESS STEEL AISI 416 X12 CrS 13 UNI 6900/71
16	MECHANICAL SEAL	CARBON/CERAMIC
28	OR GASKET	NBR

* In contact with the liquid.

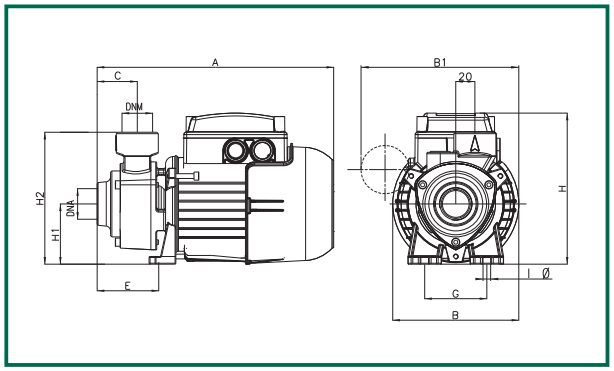


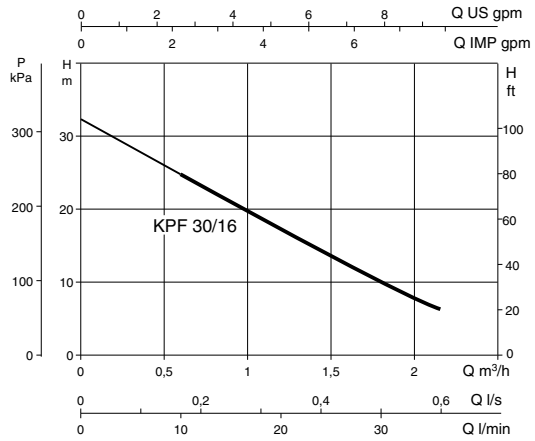
KPF

- Operating range: from 5 to 36 l/min with head up to 33 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range: from 0°C to +35°C for domestic use (EN 60335-2-41)
from -10°C to +50°C for other uses
- Maximum ambient temperature: +40°C
- Maximum operating pressure: 6 bar (600 kPa)
- Installation: fixed in a horizontal position
- Special executions on request: other voltages and/or frequencies

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

KPF 30/16





MODEL	A	B	B1*	C	E	F	G	IØ	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
KPF 30/16	247	132	165	42	64	–	65	8	158	63	138	1" G	1" G	262	140	180	0,0083	5,4

* only for the single-phase 110V - 50Hz model

MODEL	ELECTRICAL DATA							HYDRAULIC DATA (n ~ 2800 1/min)							
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	0,3	0,6	0,9	1,2	1,8	2,16
								Q l/min	0	5	10	15	20	30	36
KPF 30/16 M	1x220-240 V ~	0,53	0,37	0,5	2,37	8	450	H (m)	32,5	31	25	22	17,5	10	6
KPF 30/16 T	3x230/400 V ~	0,47	0,37	0,5	1,45-0,82	–	–								

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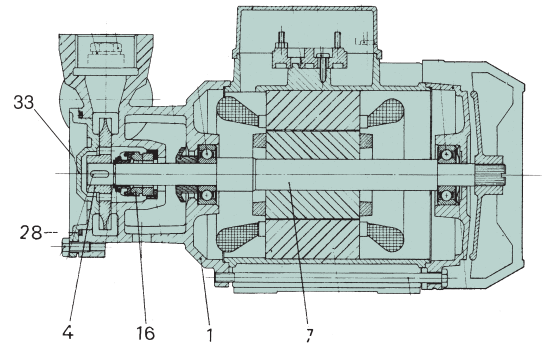
DAB PUMP PERFORMANCE

TECHNICAL DATA

N.	PARTS*	MATERIALS
1	PUMP BODY	CAST IRON 200 UNI ISO 185
4	IMPELLER	BRASS PCu Zn 40 Pb2 UNI 5705/65
7	SHAFT WITH ROTOR	STAINLESS STEEL AISI 416 X12 CrS 13 UNI 6900/71
16	MECHANICAL SEAL	CARBON/CERAMIC
28	OR GASKET	NBR
33	COVER	BRASS PCu Zn 40 Pb2 UNI 5705/65

* In contact with the liquid.

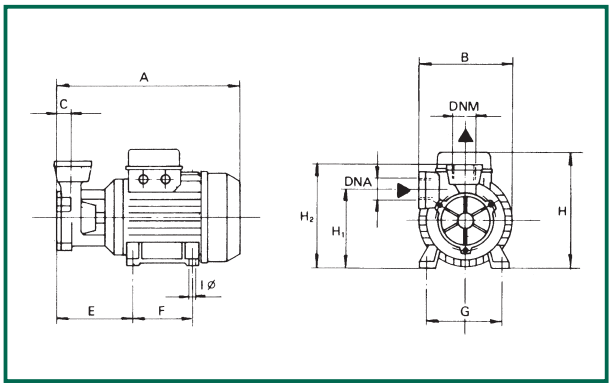


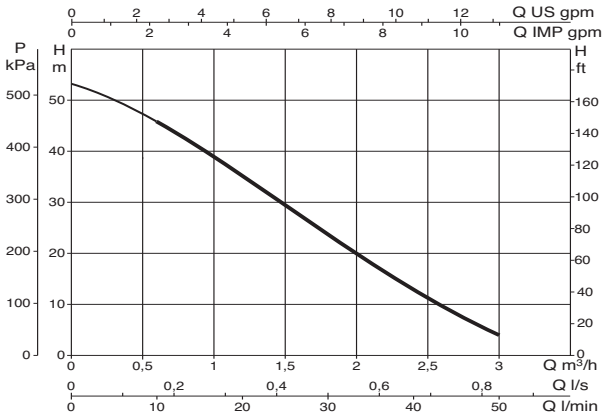
KP

- Operating range: from 10 to 50 l/min with head up to 55 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range: from 0°C to +35°C for domestic use (EN 60335-2-41)
from -10°C to +50°C for other uses
- Maximum ambient temperature: +40°C
- Maximum operating pressure: 10 bar (1000 kPa)
- Installation: fixed in a horizontal position
- Special executions on request: other voltages and/or frequencies

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

KP 38/18





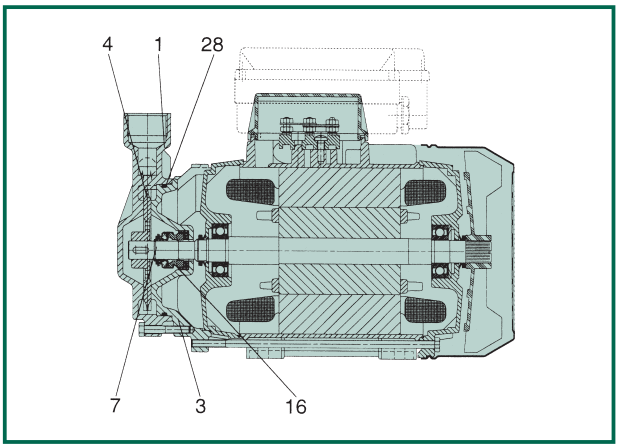
MODEL	A	B	B1	C	E	F	G	IØ	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
KP 38/18	255	130	–	26	106	80	100	7	186	108	153	1" G	1" G	271	176	209	0,01	7,5

MODEL	ELECTRICAL DATA							HYDRAULIC DATA (n ≃ 2800 1/min)								
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	0,3	0,6	0,9	1,2	1,8	2,4	3
								l/min	0	5	10	15	20	30	40	50
KP 38/18 M	1x220-240 V ~	0,89	0,6	0,8	4	12,5	450	H (m)	53	50	46	41	35	24	14	4
KP 38/18 T	3x230-400 V ~	0,86	0,6	0,8	2,9-1,7	–	–									

TECHNICAL DATA

N.	PARTS*	MATERIALS
1	PUMP BODY	BRASS PCu Zn 40 Pb2 UNI 5705/65
3	SUPPORT	BRASS PCu Zn 40 Pb2 UNI 5705/65
4	IMPELLER	BRASS PCu Zn 40 Pb2 UNI 5705/65
7	SHAFT WITH ROTOR	STAINLESS STEEL AISI 416 X12 CrS 13 UNI 6900/71
16	MECHANICAL SEAL	CARBON/CERAMIC
28	OR GASKET	VITON

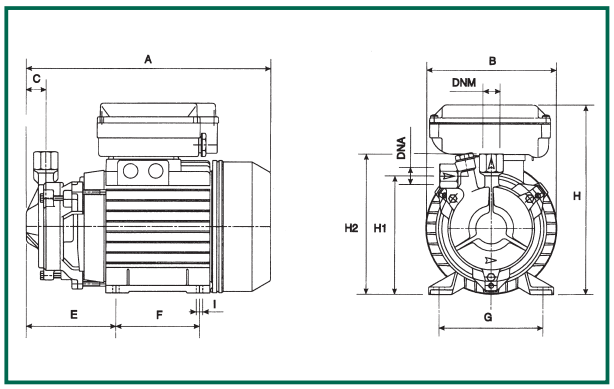
* In contact with the liquid.

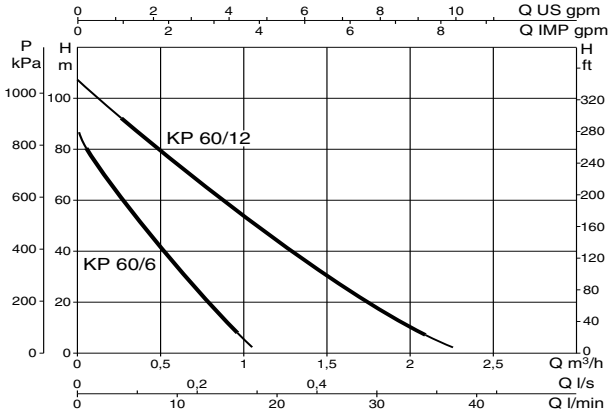


- Operating range: from 1 to 35 l/min with head up to 107 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range: from 0°C to +35°C for domestic use (EN 60335-2-41)
from -10°C to +80°C for other uses
- Maximum ambient temperature: +40°C
- Maximum operating pressure: 12 bar (1200 kPa)
- Installation: fixed in a horizontal position
- Special executions on request: other voltages and/or frequencies

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

KP 60/6 - KP 60/12

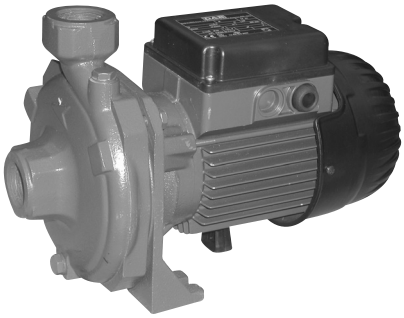


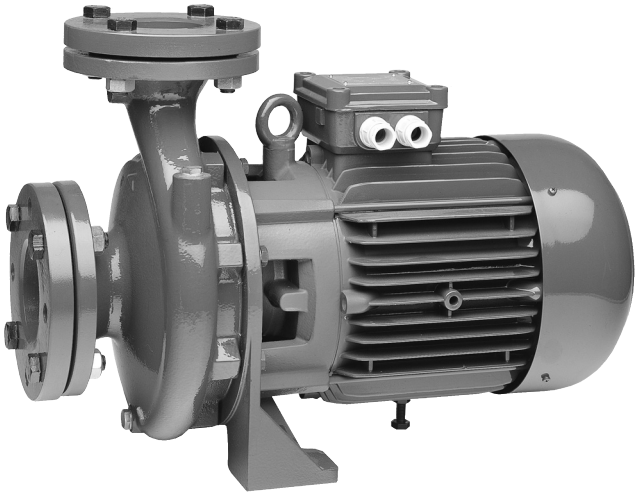


MODEL	A	B	C	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
KP 60/6 M	262	142	21	96	90	112	7	204	127	151	1/2" G	1/2" G	406	267	402	0,044	8,2
KP 60/6 T	262	142	21	96	90	112	7	173	127	151	1/2" G	1/2" G	406	267	402	0,044	7,9
KP 60/12 M	262	142	20	96	90	112	7	204	126	161	3/4" G	3/4" G	406	267	402	0,044	10,1
KP 60/12 T	262	142	20	96	90	112	7	173	126	161	3/4" G	3/4" G	406	267	402	0,044	10

MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2800 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	0,3	0,6	0,9	0,96	1,2	1,5	1,8	2,1
												Q l/min	0	5	10	15	16	20	25	30	36
KP 60/6 M	1x220-240 V ~	0,54	0,37	0,5	2,4	7,7	2800	70,0	0,98	10	450	H (m)	87	57	33	13	9				
KP 60/6 T	3x230-400 V ~	0,52	0,37	0,5	1,8-1	14,5-8,4	2800	71,2	0,72	–	–										
KP 60/12 M	1x220-240 V ~	1,15	0,75	1	5,2	15,8	2800	72,2	0,97	20	450		107	91	74	58	55	43	29	17	7
KP 60/12 T	3x230-400 V ~	1,12	0,75	1	3,8-2,2	22,1-12,8	2800	77,8	0,80	–	–										

K
SINGLE IMPELLER PUMPS





CE

GENERAL DATA

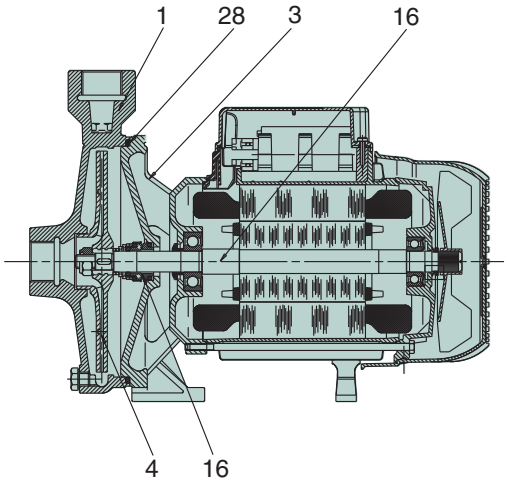
Applications
Single impeller centrifugal pump suitable for domestic, civil, industrial and agricultural installations and for decanting, mixing and irrigating uses.

Constructional features of the pump
Cast iron pump body and motor support.
Technopolymer or cast iron impeller, as indicated in the table of TECHNICAL DATA.
Carbon/ceramic mechanical seal.

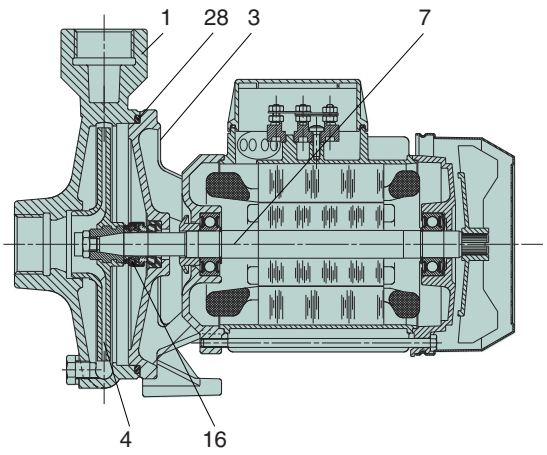
Constructional features of the motor
Induction motor, closed and cooled with external ventilation.
Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life.
Built-in thermal and current overload protection and a capacitor permanently in circuit in the single-phase version.
Three-phase motors should be protected with a suitable overload protection complying with the regulations in force.
Manufactured according to CEI 2-3 standards.
Motor protection: IP44 (IP 55 for motor to 2,2 - 3 - 4 - 5,5 - 7,5 - 9,2 - 11 kW)
Terminal box protection: IP55
Insulation class: F

Standard voltage:	single-phase	220-240 V/50 Hz
	three-phase	230-400 V/50 Hz up to and including 4 kW
		400 V ∅50 Hz over 4 kW

TECHNICAL DATA



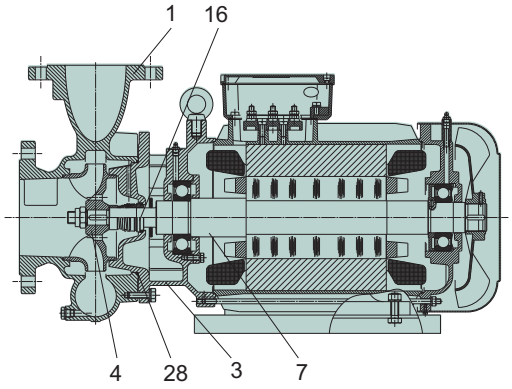
K 30/100 - K 36/100



N.	PARTS*	MATERIALS	MODELS
1	PUMP BODY	CAST IRON 200 UNI ISO 185	
3	SUPPORT	CAST IRON 200 UNI ISO 185	
4	IMPELLER	TECHNOPOLYMER A	K 20/41; K 30/70; K 30/100; K 36/100; K 12/200; K 36/200; K 40/200.
		TECHNOPOLYMER B	K 55/200
		CAST IRON 200 UNI ISO 185	K 14/400; K 11/500; K 18/500; K 28/500; K 40/400; K 50/400; K 30/800; K 40/800; K 50/800; K 20/1200; K 25/1200; K 35/1200.
7	SHAFT WITH ROTOR	STAINLESS STEEL AISI 416 X12CrS13 UNI 6900/71	K 20/41; K 30/70; K 12/200
		STAINLESS STEEL AISI 303 X10CrNiS 1089 UNI 6900/71	K 30/100; K 36/100; K 36/200; K 40/200; K 55/200; K14/400; K 11/500; K 18/500; K 28/500.
		STAINLESS STEEL AISI 304 X5CrNi 1810 UNI 6900/71	K 40/400; K 50/400; K 30/800; K 40/800; K 50/800; K 20/1200; K 25/1200; K 35/1200.
16	MECHANICAL SEAL	CARBON/CERAMIC	
28	OR GASKET	NBR RUBBER	
		EPDM RUBBER	K 36/200; K 40/200; K 55/200; K 14/400; K 11/500; K 18/500; K 28/500; K 30/800; K 40/800; K 50/800; K 20/1200; K 25/1200; K 35/1200.

* In contact with the liquid.

K 36/200 - K 40/200 - K 55/200
K 14/400 - K 11/500 - K 18/500
K 28/500 - K 40/400 - K 50/400
K 30/800 - K 40/800 - K 50/800
K 20/1200 - K 25/1200 - K 35/1200



- Operating range: from 1.8 to 96 m³/h with head up to 62 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range:
  K 20/41, K 30/70, K 30/100, K 36/100
  K 12/200, K 36/200, K 40/200 : from -10°C to +50°C
  The rest of the range : from -15°C to +110°C
- Maximum ambient temperature: +40°C
- Maximum operating pressure:
  K 20/41, K 30/70,
  K 30/100, K 36/100, K 12/200, K 14/400 : 6 bar (600 kPa)
  K 36/200, K 40/200, K 55/200,
  K 11/500, K 18/500, K 28/500 : 8 bar (800 kPa)
  K 40/400, K 50/400,
  K 30/800, K 40/800, K 50/800,
  K 20/1200, K 25/1200, K 35/1200 : 10 bar (1000 kPa)
- Installation: fixed in a horizontal or vertical position, as long as the motor is above the pump
- Special executions on request: other voltages and/or frequencies

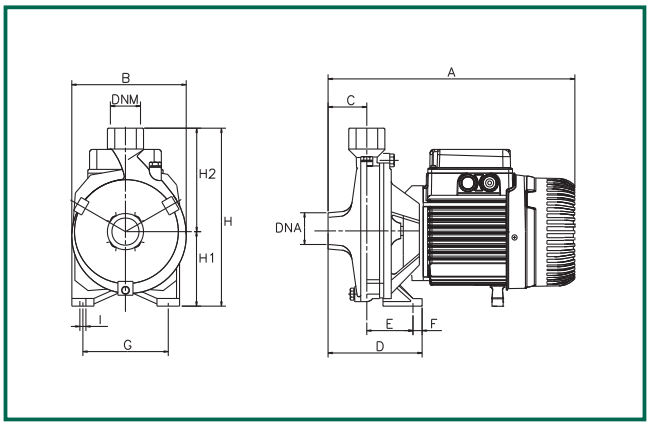
DAB PUMPS reserve the right to make modifications without prior notice

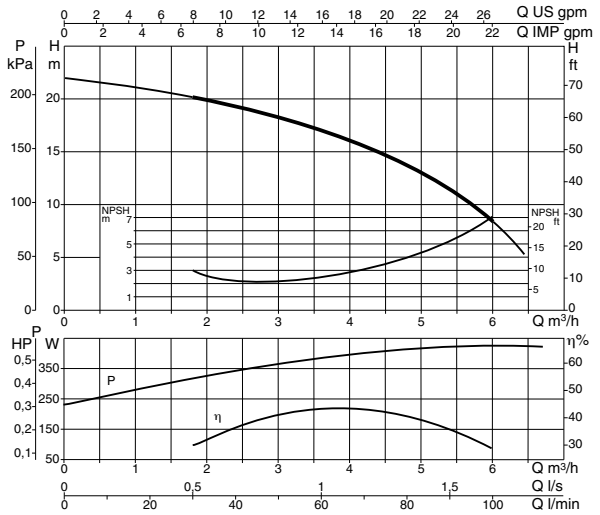
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C
Maximum ambient temperature: +40°C

K 20/41

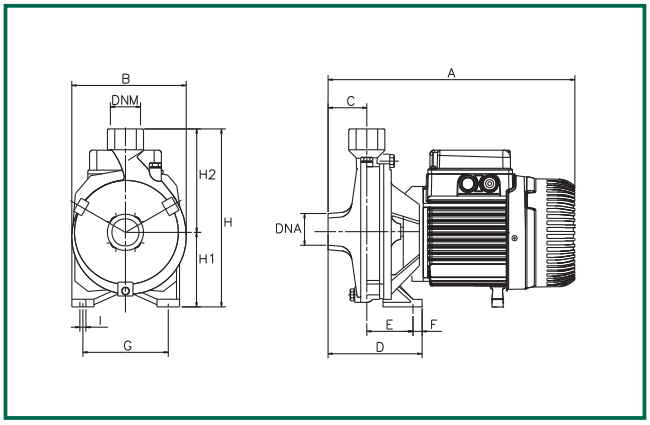


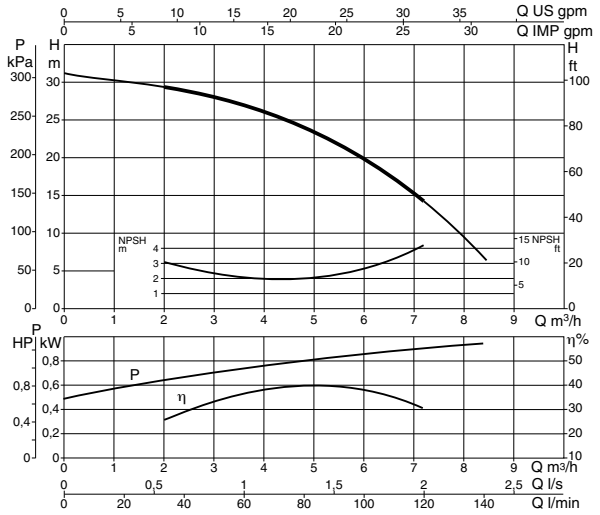


MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 20/41	300	160	50	100	50	15	110	9	205	85	120	1" G-M	1" G-M	332	202	257	0,024	10,1

MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2800 1/min)						
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	1,8	2,4	3,6	4,8	6
												Q l/min	0	30	40	60	80	100
K 20/41 M	1x220-240 V ~	0,65	0,37	0,5	3	8,5	2800	66,8	0,98	10	450	H (m)	22	20,2	19,4	17	13,5	8
K 20/41 T	3x230-400 V ~	0,64	0,37	0,5	2,3-1,3	8,6-5	2800	72,9	0,78	–	–							

K 30/70





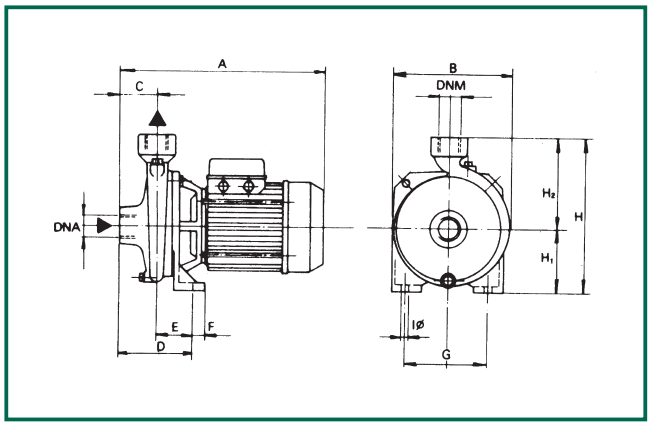
MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 30/70	330	185	50	108	58	15	140	9	235	100	135	1" G-M	1" G-M	386	226	272	0,024	14,8

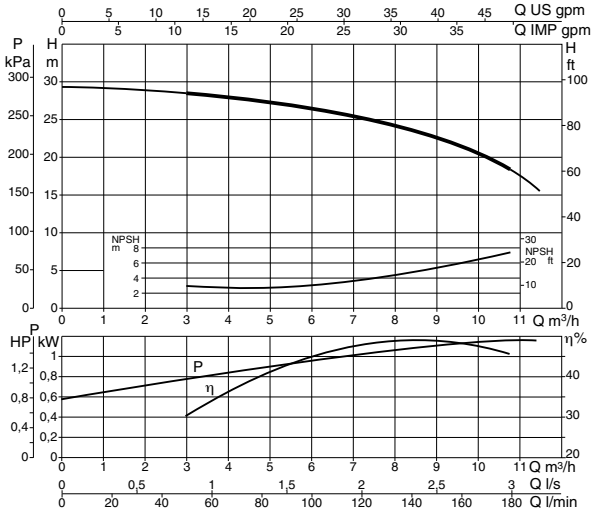
MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2800 1/min)							
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	1,8	2,4	3,6	4,8	6	7,2
												Q l/min	0	30	40	60	80	100	120
K 30/70 M	1x220-240 V ~	1,3	0,75	1	6	15,8	2800	71,4	0,96	20	450	H (m)	31,8	29,5	28,9	27	24,2	19,8	13,5
K 30/70 T	3x230-400 V ~	1,2	0,75	1	4,3-2,5	22,1-12,8	2820	76,4	0,79	–	–								

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C
Maximum ambient temperature: +40°C

K 30/100

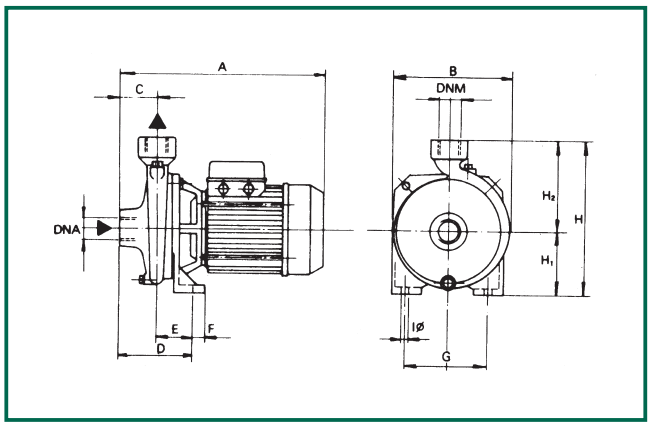


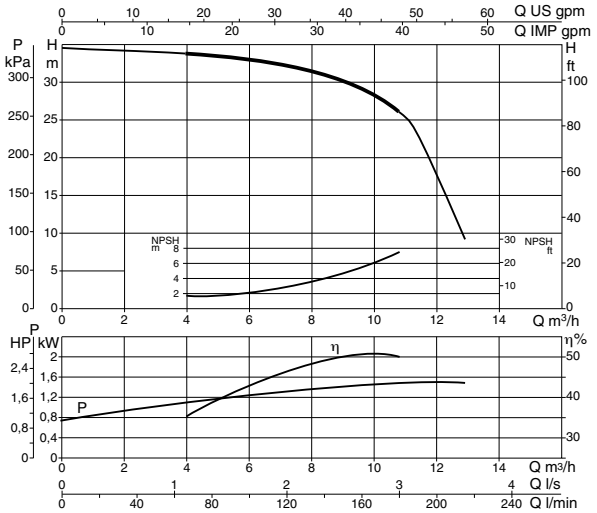


MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
K 30/100	333	200	50	114	64	15	140	9	255	105	150	1½" G	1" G	427	246	307	0,032	18,5

MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2800 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	2,4	3,6	4,8	6	7,2	8,4	9,6	10,8
												Q l/min	0	40	60	80	100	120	140	160	180
K 30/100 M	1x220-240 V ~	1,6	1,1	1,5	7,1	33	2800	75,6	0,97	31,5	450	H (m)	29,2	29	28,8	28	26,8	25,3	23,5	21,5	18,5
K 30/100 T	3x230-400 V ~	1,63	1,1	1,5	5,5-3,2	31,1-18	2860	78,9	0,82	–	–										

K 36/100





MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
K 36/100	333	200	50	114	64	15	140	9	255	105	150	1½" G	1" G	427	246	307	0,032	19,7

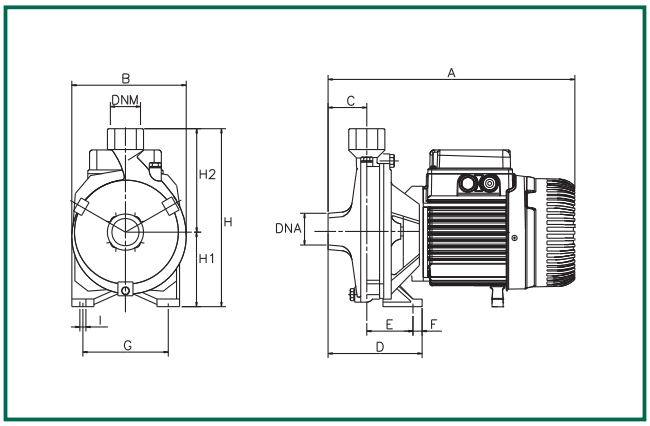
MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2800 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	2,4	3,6	4,8	6	7,2	8,4	9,6	10,8
												Q l/min	0	40	60	80	100	120	140	160	180
K 36/100 M	1x220-240 V ~	2,1	1,85	2,5	8,8	45	2850	80,2	0,96	40	450	H (m)	34,9	34,8	34,6	34	33	32	30,8	29	26,5
K 36/100 T	3x230-400 V ~	2	1,85	2,5	6,9-4	37,5-21,7	2870	80,7	0,78	–	–										

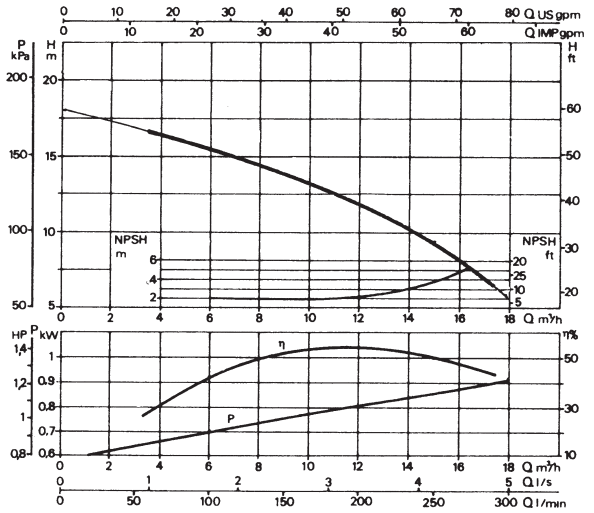
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C
Maximum ambient temperature: +40°C

K 12/200

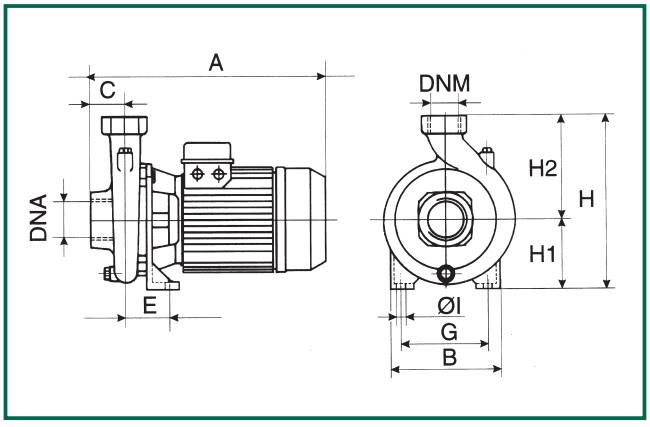


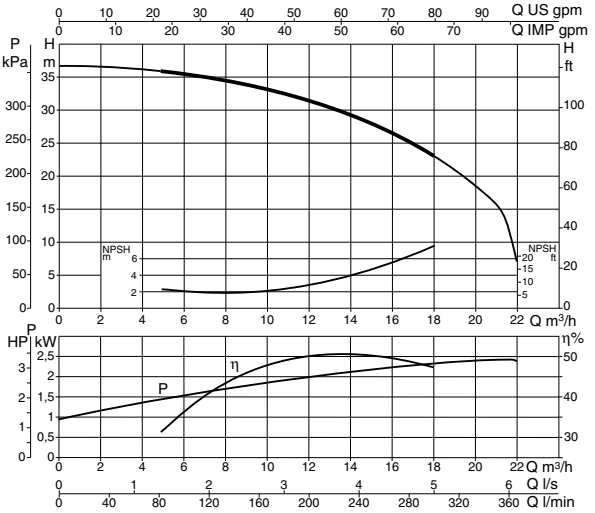


MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 12/200	335	169	45	114	69	15	110	9	210	85	125	1½" G-M	1½" G-M	392	232	280	0,024	14

MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2800 1/min)										
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	2,4	3,6	4,8	6	7,2	9,6	12	14,4	16,8
												Q l/min	0	40	60	80	100	120	160	200	240	280
K 12/200 M	1x220-240 V ~	1,05	0,75	1	4,6	18,5	2790	73,5	0,98	20	450	H (m)	18,4	17,2	16,5	16	15,3	14,7	13,1	11,4	9,5	6,8
K 12/200 T	3x230-400 V ~	1,02	0,75	1	3,6-2,1	22,1-12,8	2860	78,9	0,72	–	–											

K 36/200





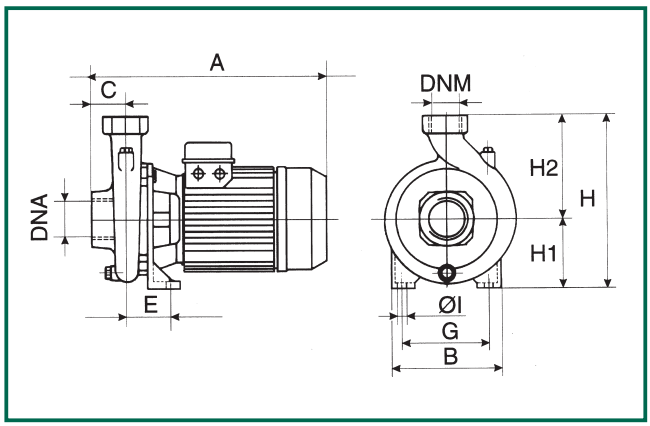
MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 36/200 T	425	250	55	86	175	14	320	135	185	2" G	1¼" G	512	276	345	0,049	32,1

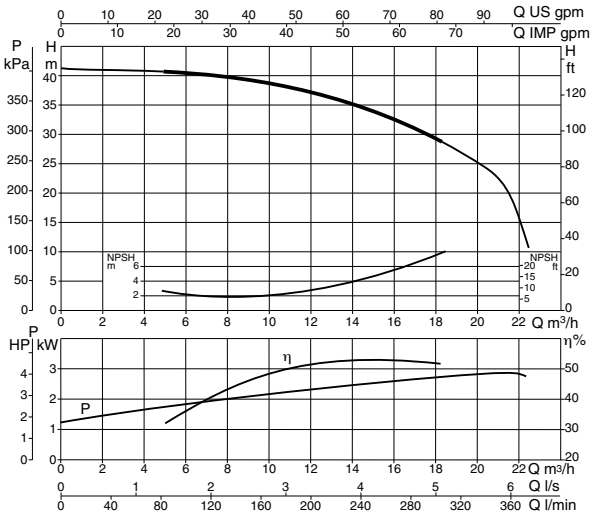
MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2860 1/min)											
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	2,4	4,8	7,2	9,6	10,8	12	14,4	16,8	18
										Q l/min	0	40	80	120	160	180	200	240	280	300
K 36/200 T	3x230-400 V ~	3	2,2	3	9-5,2	45-26	2860	78,2	0,87	H (m)	36,6	36,5	36	35	33,3	32,5	31,5	29	25,6	23,5

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +50°C
Maximum ambient temperature: +40°C

K 40/200



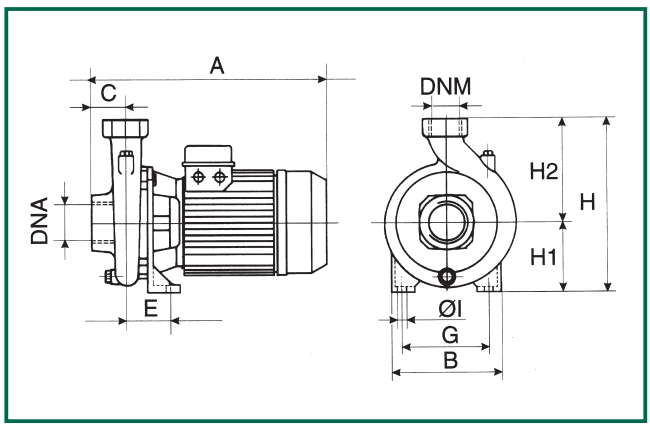


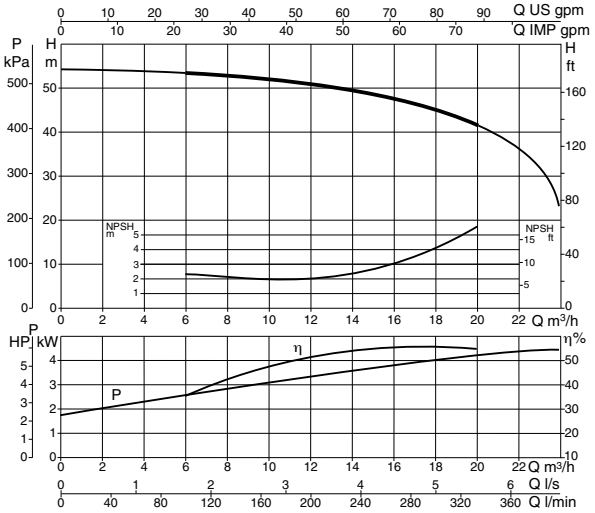
MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 40/200	425	250	55	86	175	14	320	135	185	2" G	1¼" G	512	276	345	0,049	33,9

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2830 1/min)								
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	4,8	7,2	9,6	12	14,4	16,8	18,6
										Q l/min	0	80	120	160	200	240	280	310
K 40/200 T	3x230-400 V ~	4	3	4	11,1-6,4	67,5-39	2830	78,9	0,84	H (m)	41,3	41	40	38,8	37	34	31	28

K 55/200

Liquid temperature range: da -15°C to +110°C
Maximum ambient temperature: +40°C





MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 55/200	425	250	55	86	175	14	320	135	185	2" G	1¼" G	512	276	345	0,049	33,9

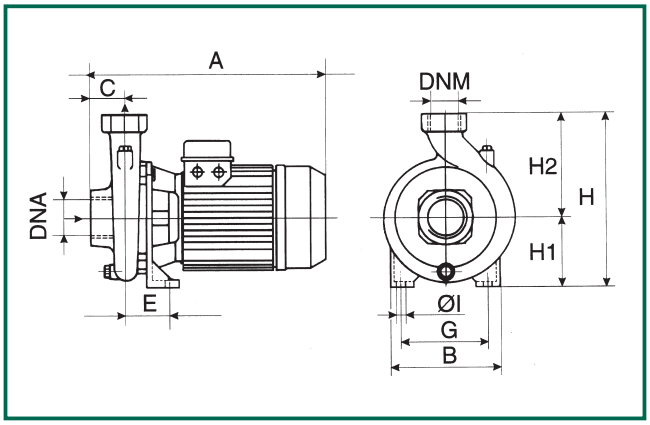
MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2880 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	7,2	9,6	12	14,4	16,8	19,2	20,1
										Q l/min	0	100	120	160	200	240	280	320	335
K 55/200 T	3x230-400 V ~	5,1	4	5,5	16,3-9,4	104-60	2880	81,2	0,83	H (m)	54	54	53,9	53	51,5	49,3	46,5	43,5	42

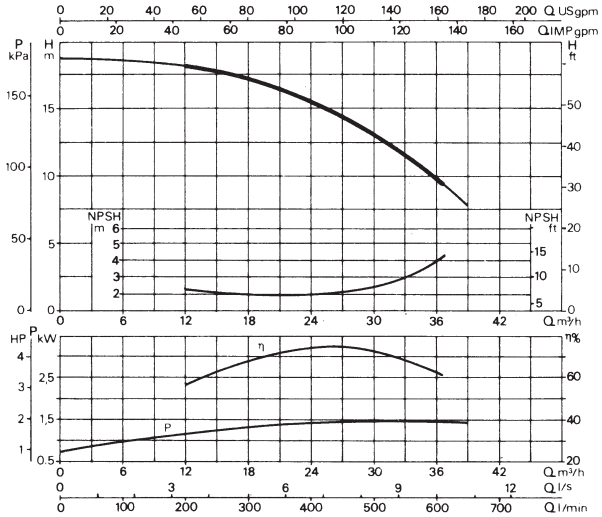
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 14/400

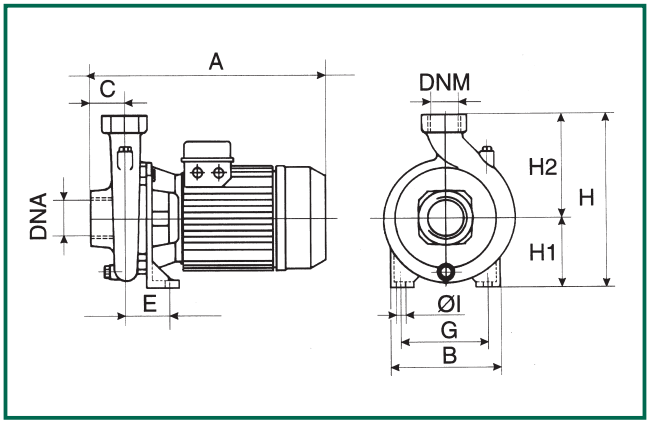


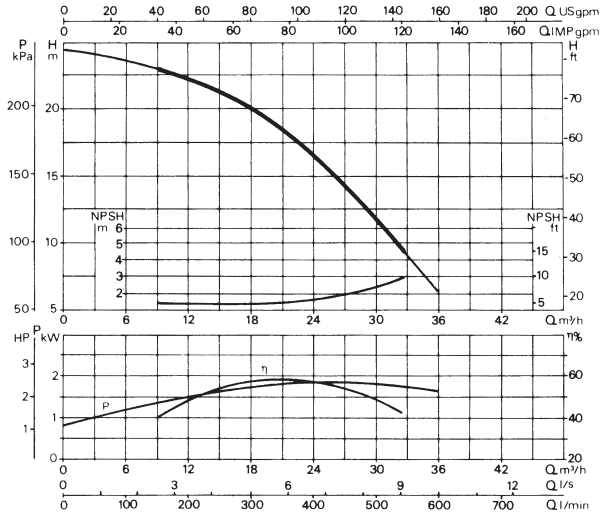


MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
K 14/400 M	430	200	62	74	120	11	270	105	165	2" G	2" G	427	246	307	0,032	24,5
K 14/400 T	358	200	62	74	120	11	270	105	165	2" G	2" G	427	246	307	0,032	22

MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2850 1/min)										
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	6	9	12	15	18	24	30	36	39
												Q l/min	0	100	150	200	250	300	400	500	600	650
K 14/400 M	1x220-240 V ~	2,1	1,85	2,5	9,5	38	2850	72,0	0,95	40	450	H (m)	19	19	18,9	18,8	18,5	18	16,3	13,8	10	8,2
K 14/400 T	3x230-400 V ~	2,1	1,85	2,5	7-4	37,5-21,7	2850	80,5	0,83	–	–											

K 11/500





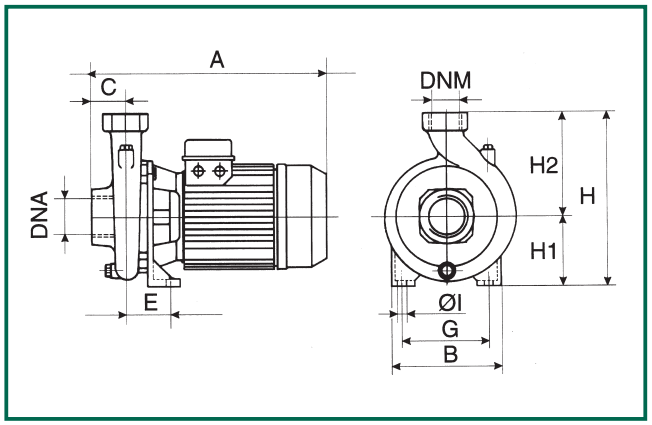
MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
K 11/500	440	240	62	100	155	14	312	132	180	2½" G	2" G	512	286	345	0,049	33,2

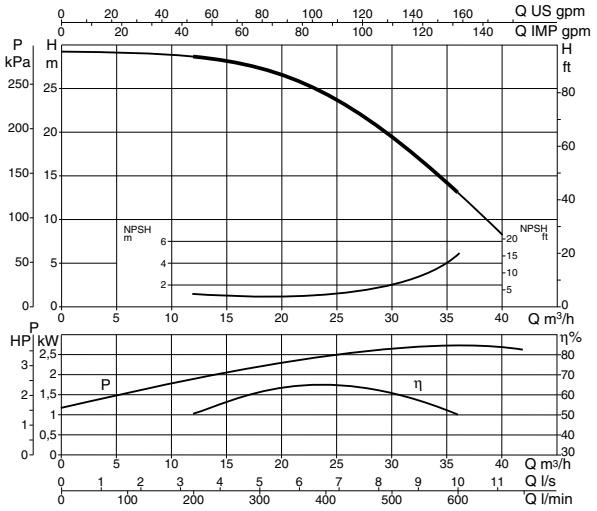
MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2900 1/min)										
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	9	12	15	18	24	30	36	
										Q l/min	0	100	150	200	250	300	400	500	600	
K 11/500 T	3x230-400 V ~	2,6	2,2	3	7,6-4,4	45-26	2900	81,2	0,81	H (m)	24,5	23,5	23	22,5	21,5	20	16,5	11,5	6,5	

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 18/500

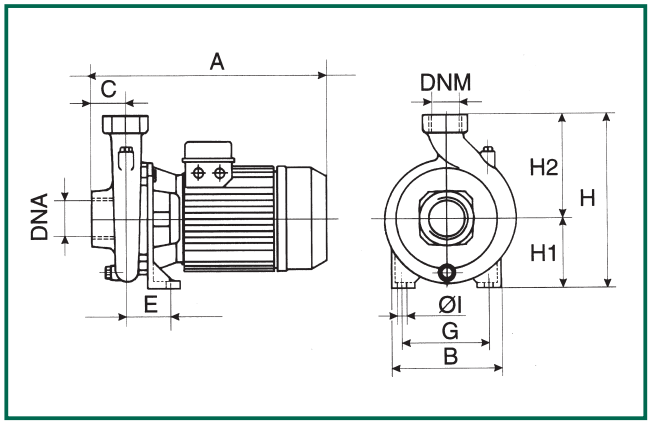


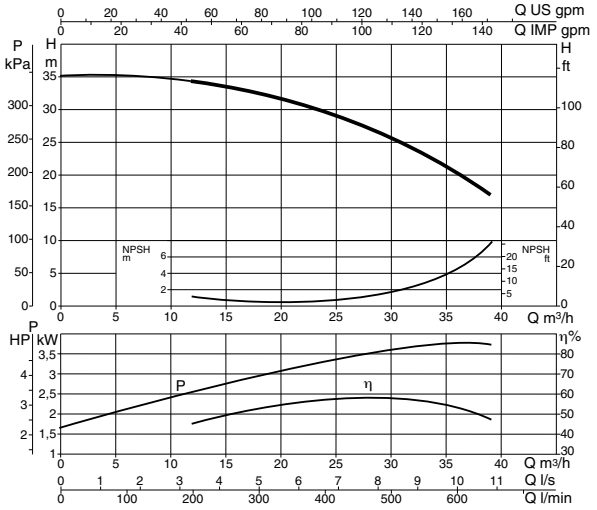


MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
K 18/500	440	240	62	100	155	14	312	132	180	2½" G	2" G	512	286	345	0,049	35,6

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	12	15	18	24	30	36
										l/min	0	100	200	250	300	400	500	600
K 18/500 T	3x230-400 V ~	3,4	3	4	10,2-5,9	67,5-39	2870	81,2	0,83	H (m)	29,6	29,5	29,2	28,5	27,4	24	19,5	13,8	

K 28/500





MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
K 28/500	440	240	62	100	155	14	312	132	180	2½" G	2" G	512	286	345	0,049	39,6

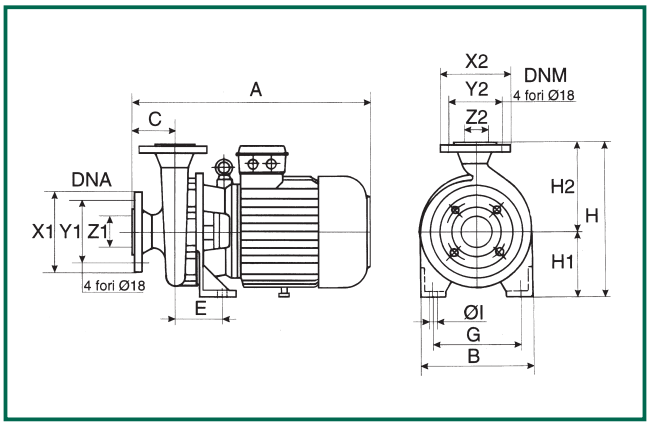
MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36	39	
										l/min	0	100	200	300	400	500	600	650	
K 28/500 T	3x230-400 V ~	4,6	4	5,5	14,7-8,5	104-60	2880	82,6	0,81	H (m)	35	35	34,5	32,8	29,3	25,2	20	16,8	

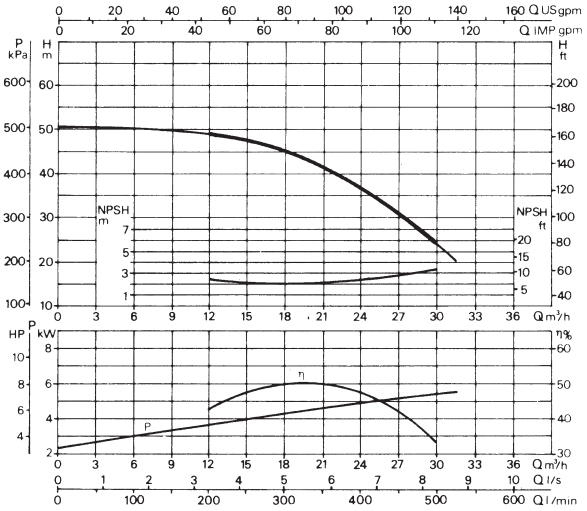
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 40/400



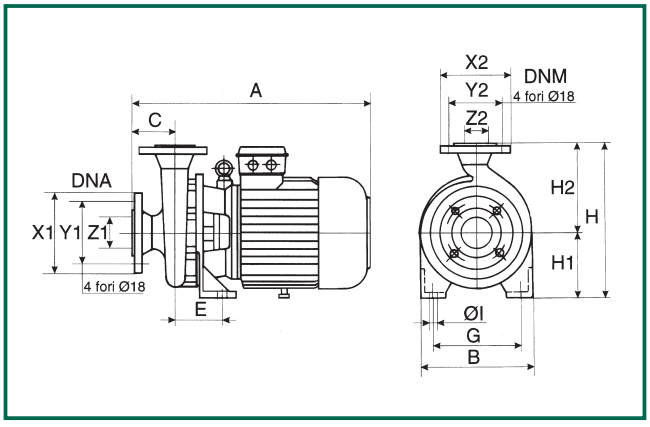


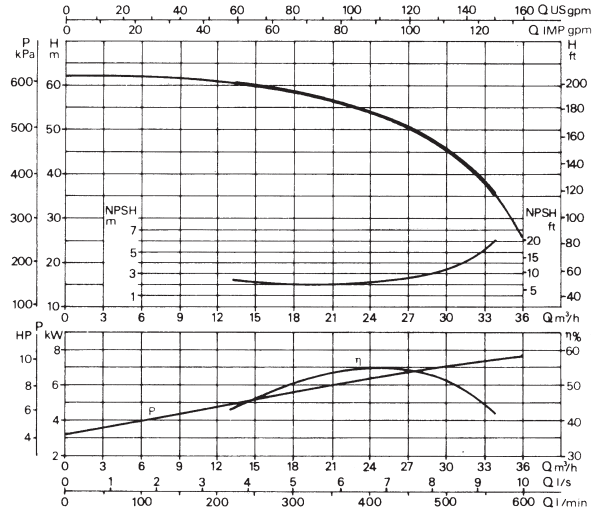
MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME	WEIGHT
										x1	y1	z1	x2	y2	z2	L/A	L/B	H	m³	Kg
K 40/400	560	273	100	110	212	14	360	160	200	185	145	65	165	125	50	680	330	572	0,128	78,8

MODEL	ELECTRICAL DATA								HYDRAULIC DATA (n ≃ 2900 1/min)								
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	9	12	15	18	24	30
										Q l/min	0	100	150	200	250	300	400	500
K 40/400 T	3x400 V ~ Δ*	7	5,5	7,5	11,5	78	2900	81,6	0,86	H (m)	50,5	50	49,8	49	48	45	37	24

* Star starting is possible (λ)

K 50/400





MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME	WEIGHT
										x1	y1	z1	x2	y2	z2	L/A	L/B	H	m³	Kg
K 50/400	560	273	100	110	212	14	360	160	200	185	145	65	165	125	50	680	330	572	0,128	78,8

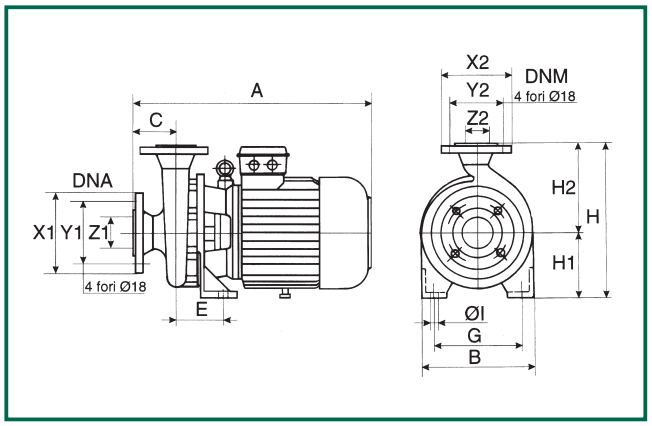
MODEL	ELECTRICAL DATA								HYDRAULIC DATA (n ≃ 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	9	12	15	18	24	30	33
										Q l/min	0	100	150	200	250	300	400	500	550
K 50/400 T	3x400 V ~ Δ*	9,4	7,5	10	15	119	2900	83,9	0,86	H (m)	62	62	62	61	60	59	54,5	46	37

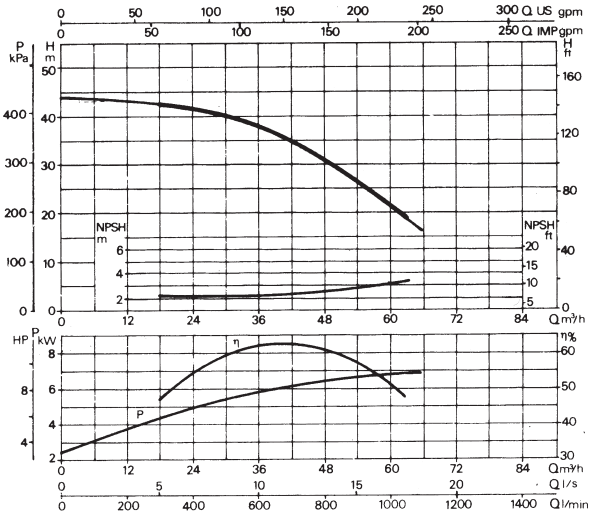
* Star starting is possible (λ)

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 30/800



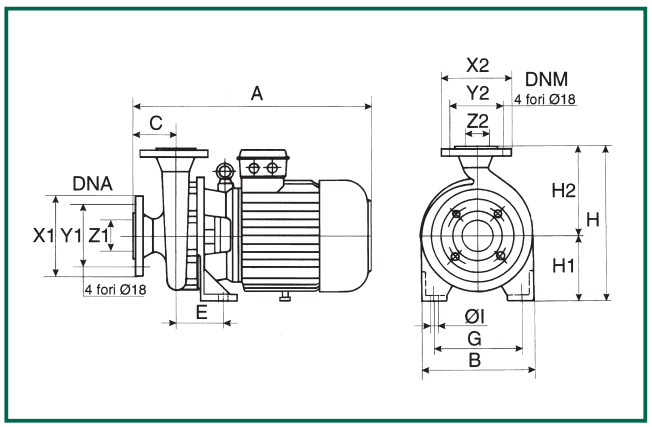


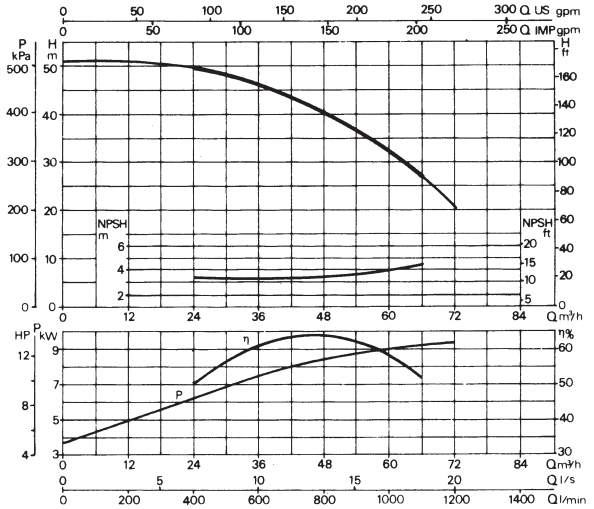
MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME m³	WEIGHT Kg
										x1	y1	z1	x2	y2	z2	L/A	L/B	H		
K 30/800	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	572	0,128	90,2

MODEL	ELECTRICAL DATA								HYDRAULIC DATA (n ≃ 2900 1/min)						
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	24	36	48	60	66
										Q l/min	0	400	600	800	1000	1100
K 30/800 T	3x400 V ~ Δ*	8,3	7,5	10	14	119	2900	83,9	0,85	H (m)	44	42	38	31	21,5	17,7

* Star starting is possible (λ)

K 40/800





MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME m³	WEIGHT Kg
										x1	y1	z1	x2	y2	z2	L/A	L/B	H		
K 40/800	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	572	0,128	95

MODEL	ELECTRICAL DATA								HYDRAULIC DATA (n ≃ 2900 1/min)						
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	24	36	48	60	66
										Q l/min	0	400	600	800	1000	1100
K 40/800 T	3x400 V ~ Δ*	11	9,2	12,5	18	147,0	2900	83,9	0,87	H (m)	51,5	50	47	41	32,5	21

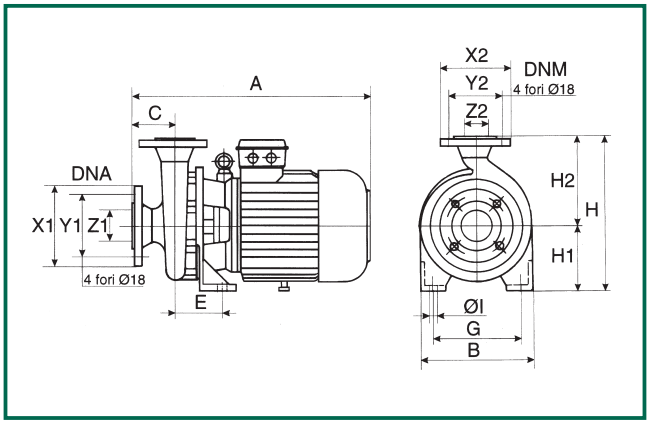
* Star starting is possible (λ)

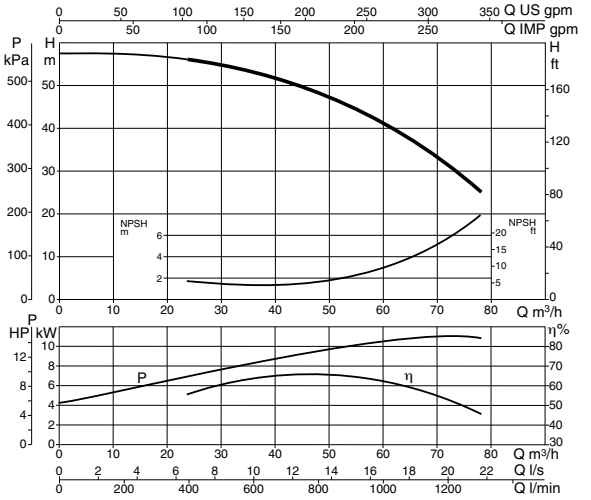
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 50/800



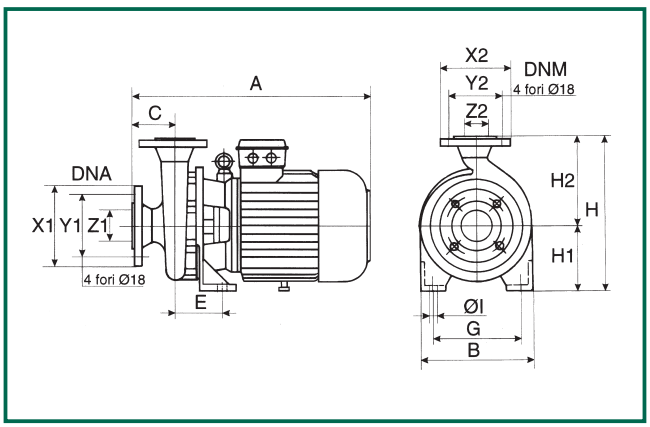


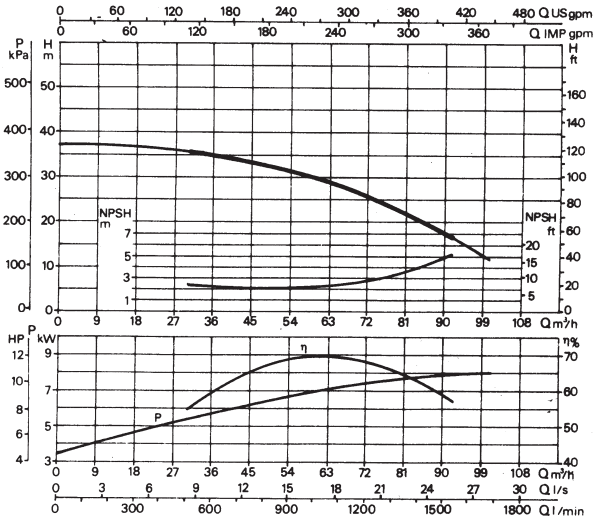
MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME	WEIGHT
										x1	y1	z1	x2	y2	z2	L/A	L/B	H	m³	Kg
K 50/800	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	572	0,128	104,3

MODEL	ELECTRICAL DATA								HYDRAULIC DATA (n ≃ 2900 1/min)							
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	24	36	48	60	72	78
										l/min	0	400	600	800	1000	1200	1300
K 50/800 T	3x400 V ~ Δ*	12,75	11	15	20,5	183	2930	86,7	0,89	H (m)	58	56,5	53,5	48	41	31	25

* Star starting is possible (λ)

K 20/1200





MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME	WEIGHT
										x1	y1	z1	x2	y2	z2	L/A	L/B	H	m³	Kg
K 20/1200	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	572	0,128	88

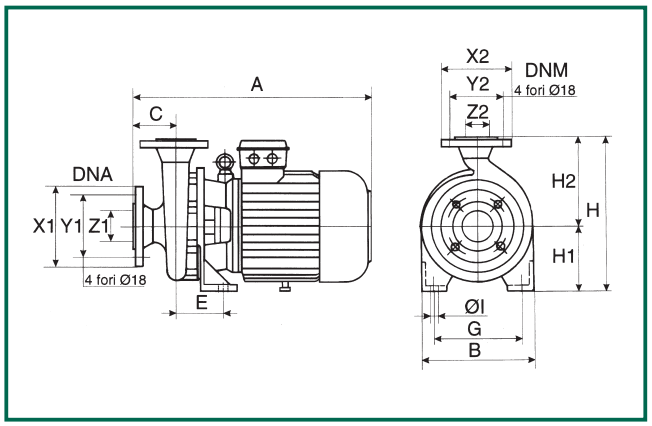
MODEL	ELECTRICAL DATA								HYDRAULIC DATA (n ≃ 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	36	48	60	72	78	84	96
										l/min	0	600	800	1000	1200	1300	1400	1600
K 20/1200 T	3x400 V ~ Δ*	8,9	7,5	10	15,4	119	2900	84,2	0,85	H (m)	37,5	35	33	30	26	23,5	21	15

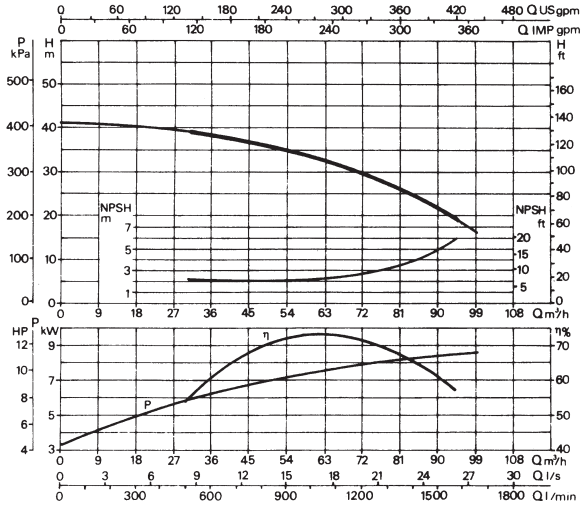
* Star starting is possible (λ)

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 25/1200



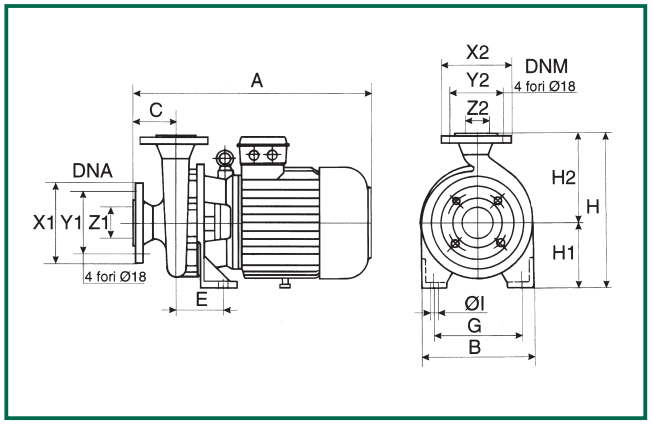


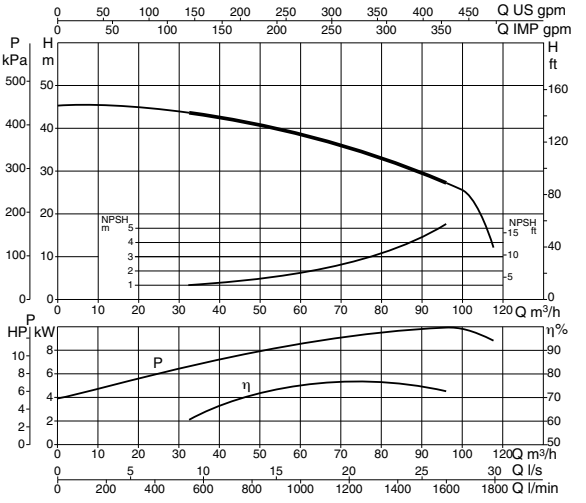
MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME	WEIGHT
										x1	y1	z1	x2	y2	z2	L/A	L/B	H	m³	Kg
K 25/1200	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	572	0,128	94

MODEL	ELECTRICAL DATA								HYDRAULIC DATA (n ≃ 2900 1/min)								
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	36	48	60	72	78	84	96
										Q l/min	0	600	800	1000	1200	1300	1400	1600
K 25/1200 T	3x400 V ~ Δ*	10	9,2	12,5	18	147	2900	84,8	0,87	H (m)	40,7	38	36	33,5	30	27,7	25	18

* Star starting is possible (λ)

K 35/1200





MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME	WEIGHT
										x1	y1	z1	x2	y2	z2	L/A	L/B	H	m³	Kg
K 35/1200	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	275	0,128	100

MODEL	ELECTRICAL DATA								HYDRAULIC DATA (n ≃ 2930 1/min)								
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	33	48	60	72	84	96
										Q l/min	0	550	800	1000	1200	1400	1600
K 35/1200 T	3x400 V ~ Δ*	11,4	11	15	19,3	183	2930	86,8	0,87	H (m)	45	43,5	41,5	38,5	35	31,5	27

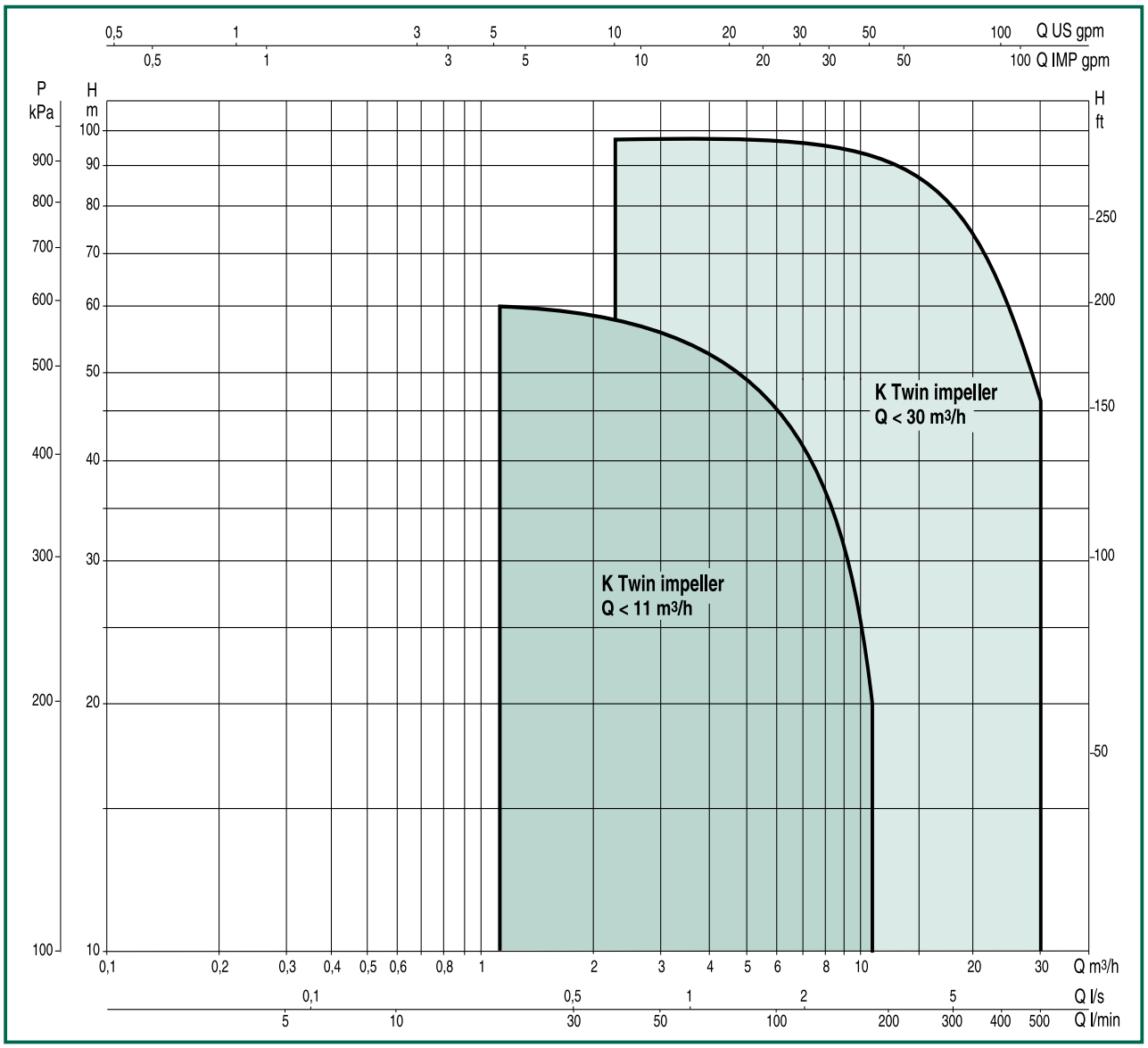
* Star starting is possible (λ)

DAB PUMPS reserve the right to make modifications without prior notice

PERFORMANCE RANGE

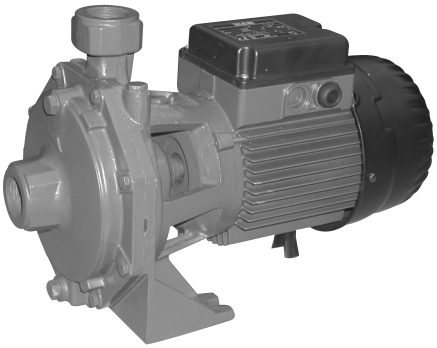
GRAPHICAL SELECTION TABLE

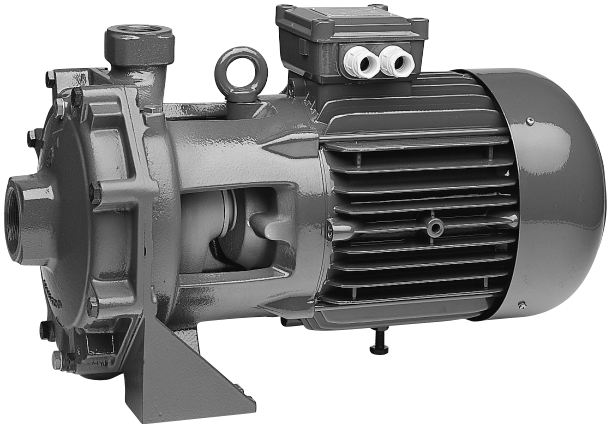
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.



MODEL		P2 NOMINAL		Q m³/h	0	0,3	0,6	0,9	1,2	1,8	2,4	3,6	4,8	6	7,2	9	9,6	10,8	12	15	18	24	30	36	42	60	72	84	96
SINGLE-PHASE	THREE-PHASE	kW	HP	l/min	0	5	10	15	20	30	40	60	80	100	120	150	160	180	200	250	300	400	500	600	700	1000	1200	1400	1600
K 35/40 M	K 35/40 T	0,75	1	H (m)	43,5				41,5	40	38	33	23,5																
K 45/50 M	K 45/50 T	1,1	1,5		51				49	47,5	46	42	37	30															
K 55/50 M	K 55/50 T	1,85	2,5		62				60	58	57	52	45	34															
K 35/100 M	K 35/100 T	1,1	1,5		38,5						37,5	36,5	35	32	28,5	18,5	17,5												
K 40/100 M	K 40/100 T	1,85	2,5		44						43,4	42,5	41	39	35,7	29	26	18,5											
–	K 55/100 T	2,2	3	H (m)	62						59,5	57	54,5	51	47	39	36												
–	K 66/100 T	3	4		73						70	67,5	64	60,5	57	49	47												
–	K 90/100 T	4	5,5		83,5						82	79,5	76,5	72,5	68	61	58												
–	K 70/300 T	5,5	7,5		76									74	73	72	71,5	70	69	65	60,5	43,5							
–	K 80/300 T	7,5	10		95									93	92,2	91	90,5	90	89,5	87	82	68							
–	K 70/400 T	9,2	12,5		86											84	83,2	82,5	82	79	76	65	47						
–	K 80/400 T	11	15		97											95	94,5	94	92	89	80	64							

K
TWIN IMPELLER PUMPS





CE

GENERAL DATA

Applications
Twin-impeller centrifugal pump designed for use in pressurisation units for water supply systems and for supplying pressurised tanks.
Suitable also for sprinkling irrigation and other water supply applications.

Constructional features of the pump
Cast iron pump body and motor support.
Technopolymer impeller.
Carbon/ceramic mechanical seal.

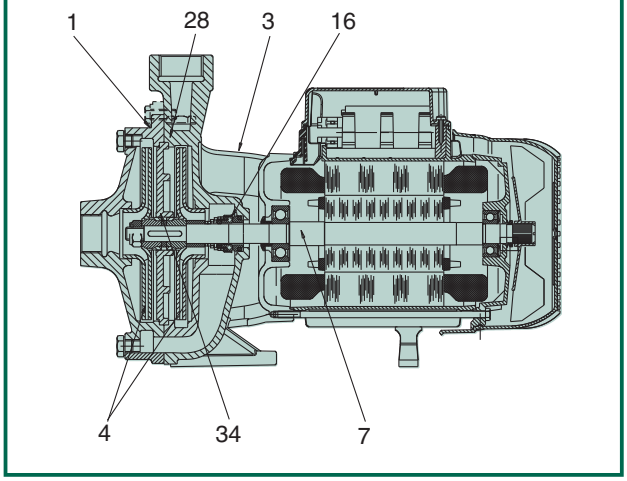
Constructional features of the motor
Induction motor, closed and cooled with external ventilation.
Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life.
Built-in thermal and current overload protection and a capacitor permanently in circuit in the single-phase version.
Three-phase motors should be protected with a suitable overload protection complying with the regulations in force.
Manufactured according to CEI 2-3 standards.
Motor protection: IP55, IP 44 for the models K 35/40, K 45/50, K 55/50, K 35/100, K 40/100
Terminal box protection: IP55
Insulation class: F

Standard voltage:	single-phase	220-240 V/50 Hz
	three-phase	220-400 V/50 Hz up to and including 4 kW
		400 V Δ 50 Hz over 4 kW

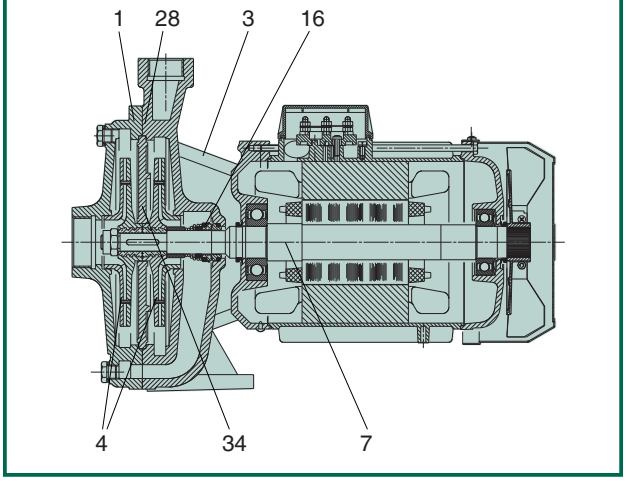
DAB PUMPS reserve the right to make modifications without prior notice

TECHNICAL DATA

K 35/40



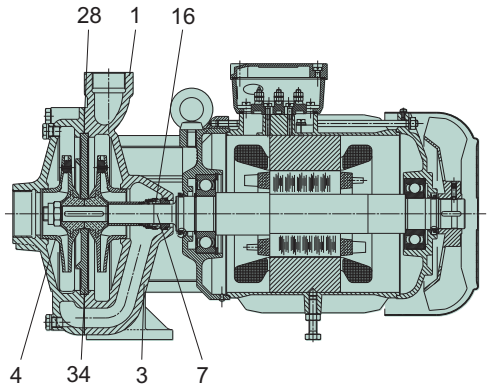
K 45/50 - K 55/50 - K 35/100 - K 40/100



N.	PARTS*	MATERIALS	MODELS
1	PUMP BODY	CAST IRON 200 UNI ISO 185	
3	SUPPORT	CAST IRON 200 UNI ISO 185	
4	IMPELLER	TECHNOPOLYMER A	K 35/40; K 45/50; K 35/100; K 40/100; K 55/100
		TECHNOPOLYMER B	K 55/50; K 66/100; K 90/100; K 70/300; K 80/300; K 70/400; K 80/400
7	SHAFT WITH ROTOR	STAINLESS STEEL AISI 416 X12CrS13 UNI 6900/71	K 35/40
		STAINLESS STEEL AISI 303 X10CrNiS 1089 UNI 6900/71	K 45/50; K 55/50; K 35/100; K 40/100; K 55/100; K66/100; K 90/100
		STAINLESS STEEL AISI 304 X5 Ni 1810 UNI 6900/71	K 70/300; K 80/300; K 70/400; K 80/400
16	MECHANICAL SEAL	CARBON/CERAMIC	
28	GASKET	NBR RUBBER	K 35/40; K 45/50; K 55/50; K 55/100; K 35/100; K 40/100
		GUARNITAL	K 66/100; K 90/100; K 70/300; K 80/300; K 70/400; K 80/400
34	INTERMEDIATE DISC	CAST IRON 200 UNI ISO 185	K 35/40; K 45/50; K 55/50; K 55/100; K 66/100; K 90/100; K 70/300; K 70/400; K 80/300; K 80/400

* In contact with the liquid.

K 55/100 - K 66/100 - K 90/100
K 70/300 - K 80/300
K 70/400 - K 80/400

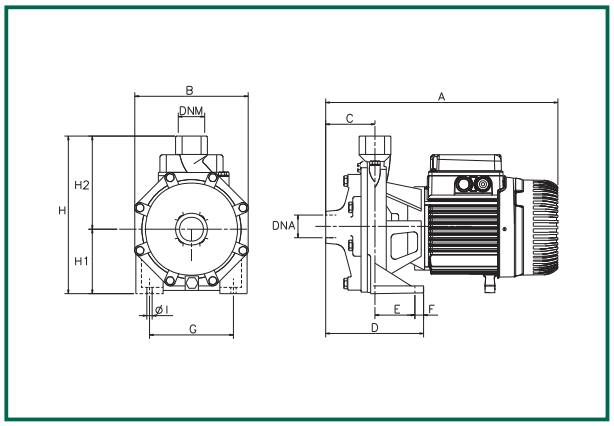


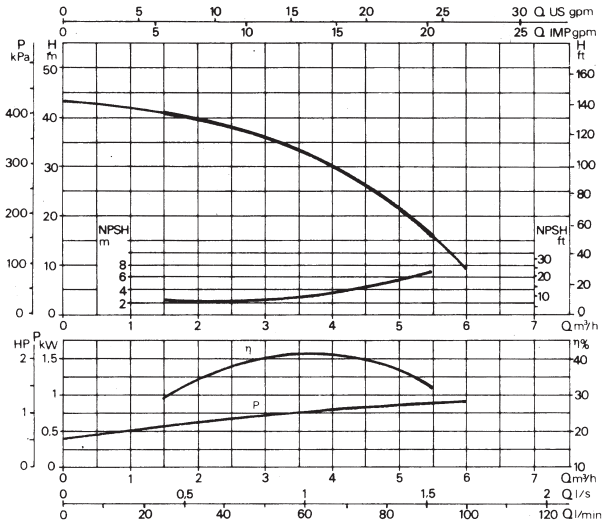
- Operating range: from 1,2 to 30 m^3/h with head up to 97 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range:
  K 35/40, K 45/50, K 35/100, K 40/100, K 55/100 : from -10°C to +50°C
  K 55/50, K 66/100, K 90/100 K 70/300, K 80/300, K 70/400, K 80/400 : from -15°C to +110°C
- Maximum ambient temperature: +40°C
- Maximum operating pressure:
  K 35/40, K 35/100, K 40/100 : 6 bar (600 kPa)
  K 45/50, K 55/50 : 8 bar (800 kPa)
  K 55/100, K 66/100 : 10 bar (1000 kPa)
  K 90/100, K 70/300, K 80/300 K 70/400, K 80/400 : 12 bar (1200 kPa)
- Installation: fixed in a horizontal or vertical position, as long as the motor is above the pump.
- Special executions on request: other voltages and/or frequencies

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C
Massima temperatura ambiente +40°C

K 35/40

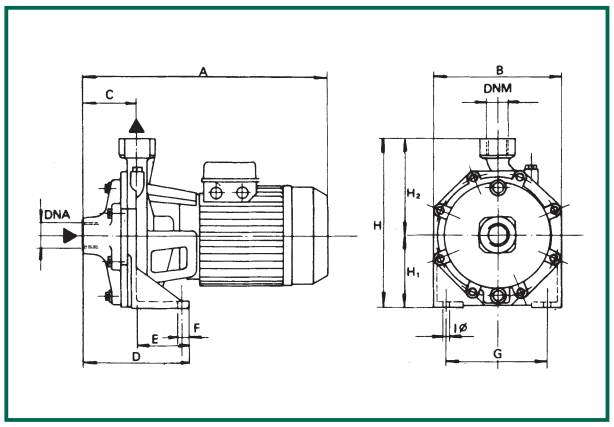


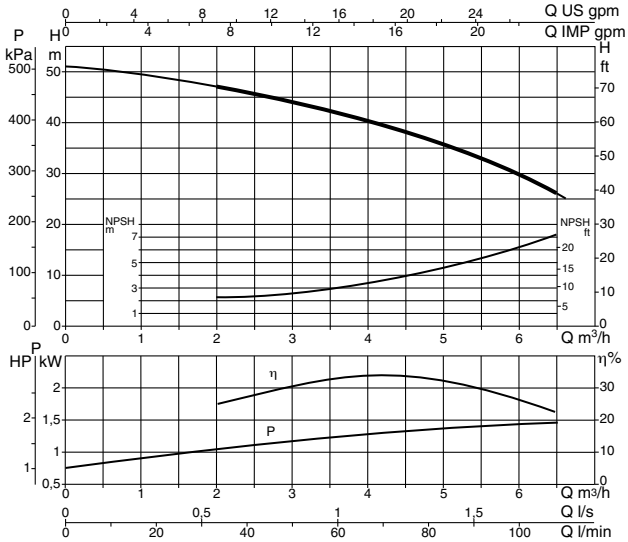


MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 35/40	363	180	76	148	72	15	148	9,5	235	100	135	1" G	1" G	392	232	262	0,024	16,1

MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2850 1/min)						
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	1,2	2,4	3,6	4,8	5,5
												Q l/min	0	20	40	60	80	91,6
K 35/40 M	1x220-240 V ~	1,2	0,75	1	5,5	18,5	2800	72,8	0,96	20	450	H (m)	43,5	41,5	38	33	23,5	16
K 35/40 T	3x230-400 V ~	1,2	0,75	1	3,8-2,2	22,14-12,8	2850	78,6	0,77	–	–							

K 45/50





MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 45/50	370	210	75	144	69	15	165	11,5	268	118	150	1¼" G	1" G	415	234	295	0,028	23,3

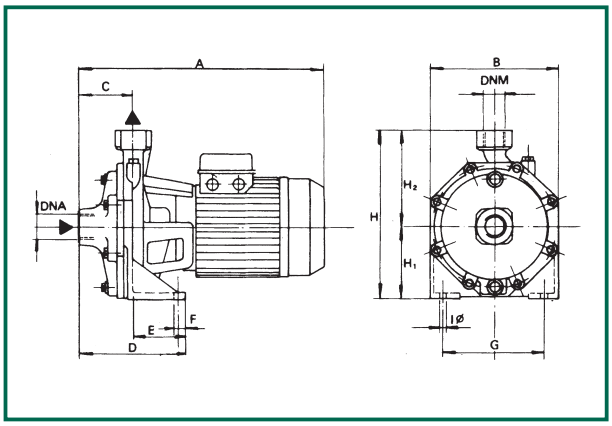
MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2850 1/min)							
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	1,2	2,4	3,6	4,8	6	6,6
												Q l/min	0	20	40	60	80	100	110
K 45/50 M	1x220-240 V ~	1,86	1,1	1,5	8,3	29,2	2800	73,1	0,97	31,5	450	H (m)	51	49	46	42	37	30	25
K 45/50 T	3x230-400 V ~	2	1,1	1,5	6-3,5	31,1-18	2850	79,2	0,81	–	–								

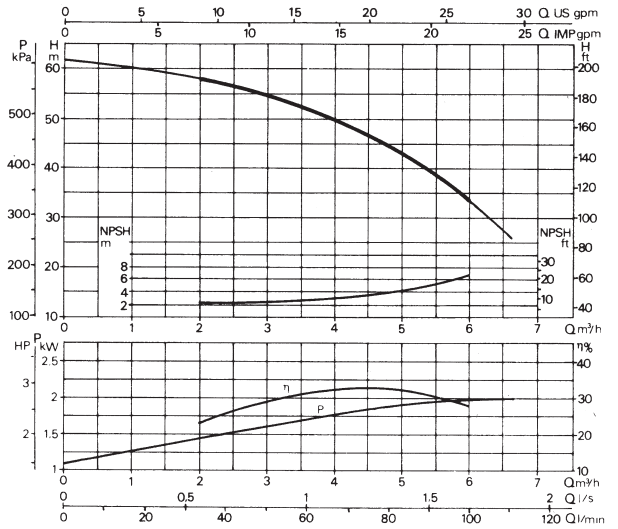
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C (K 55/50 da -15°C to +110°C)
Massima temperatura ambiente +40°C

K 55/50

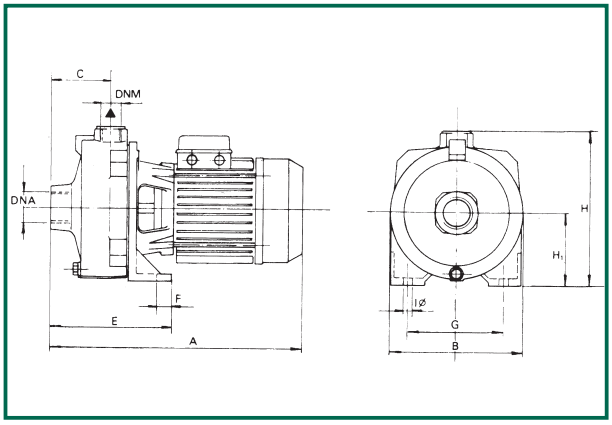


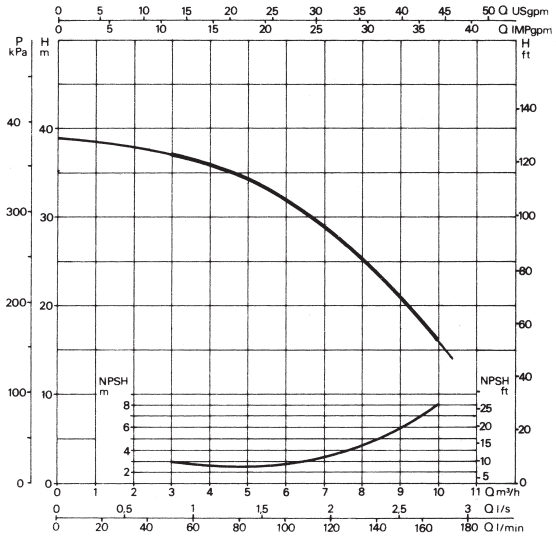


MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 55/50	370	210	75	144	69	15	165	11,5	268	118	150	1¼" G	1" G	415	234	295	0,032	23,8

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2900 1/min)							
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	1,2	2,4	3,6	4,8	6	6,6
										Q l/min	0	20	40	60	80	100	110
K 55/50 M	1x220-240 V ~	2,7	1,85	2,5	12,8	48	2850	76,5	0,97	H (m)	62	60	57	52	45	34	26
K 55/50 T	3x230-400 V ~	2,5	1,85	2,5	8,4-4,8	37,6-21,7	2850	78,9	0,85								

K 35/100





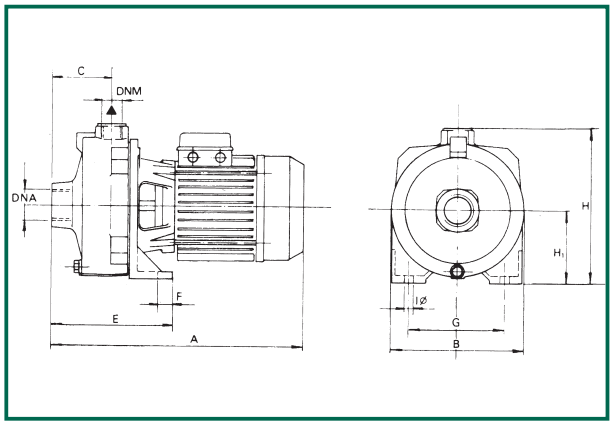
MODEL	A	B	C	E	F	G	I	H	H1	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 35/100	387	205	88	179	20	145	11	233	108	1½" G	1" G	415	234	295	0,028	21,5

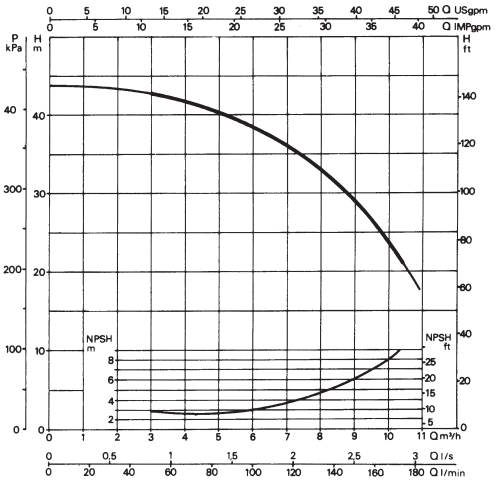
MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2850 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	2,4	3,6	4,8	6	7,2	8,4	9	10,2
												Q l/min	0	40	60	80	100	120	140	150	170
K 35/100 M	1x220-240 V ~	1,56	1,1	1,5	7,1	33	2780	75,6	0,97	25	450	H (m)	38,5	37,5	36,3	35	32	28,5	24	18,5	15,5
K 35/100 T	3x230-400 V ~	1,65	1,1	1,5	5,36-3,1	31,1-18	2850	71,2	0,77	–	–										

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C
Massima temperatura ambiente +40°C

K 40/100

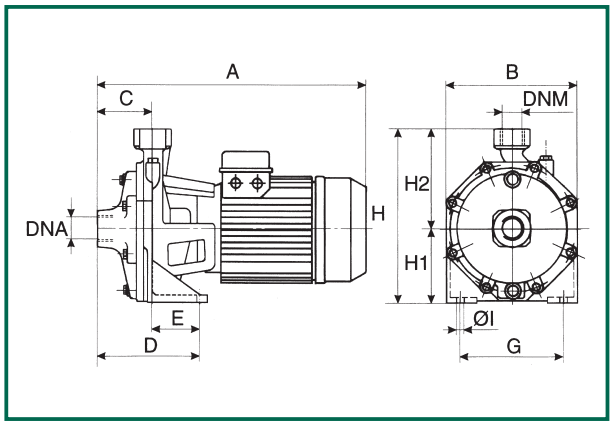


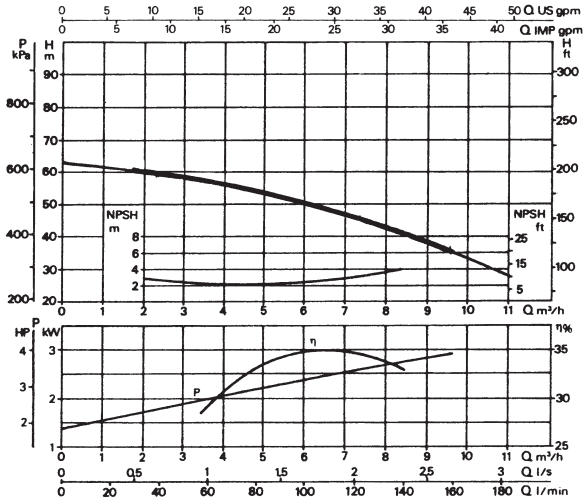


MODEL	A	B	C	E	F	G	I	H	H1	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
K 40/100 M	461	205	88	179	20	145	11	233	108	1½" G	1" G	510	234	285	0,034	25,9
K 40/100 T	387	205	88	179	20	145	11	233	108	1½" G	1" G	415	234	295	0,028	22

MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	2,4	3,6	4,8	6	7,2	8,4	9	10,8
												Q l/min	0	40	60	80	100	120	140	150	180
K 40/100 M	1x220-240 V ~	2	1,85	2,5	9	45	2850	78,3	0,97	40	450	H (m)	44	43,4	42,5	41	39	35,7	32	29	18,5
K 40/100 T	3x230-400 V ~	2,0	1,85	2,5	6,2-3,6	37,6-21,7	2850	80	0,80	–	–										

K 55/100





MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
K 55/100 T	450	256	88	160	72	18	200	14	312,5	140	172,5	1½" G	1" G	500	274	333	0,045	37,1

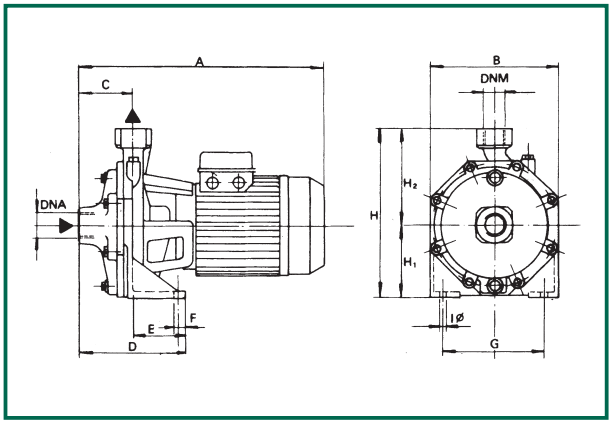
MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2850 1/min)										
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	1,2	2,4	3,6	4,8	6	6,6	7,2	8,4	9,6
										Q l/min	0	20	40	60	80	100	110	120	140	160
K 55/100 T	3x230-400 V ~	3,9	2,2	3	11,6-6,7	67,5-39	2850	79,9	0,86	H (m)	62	61	59,5	57	54,5	51	49	47	42	36

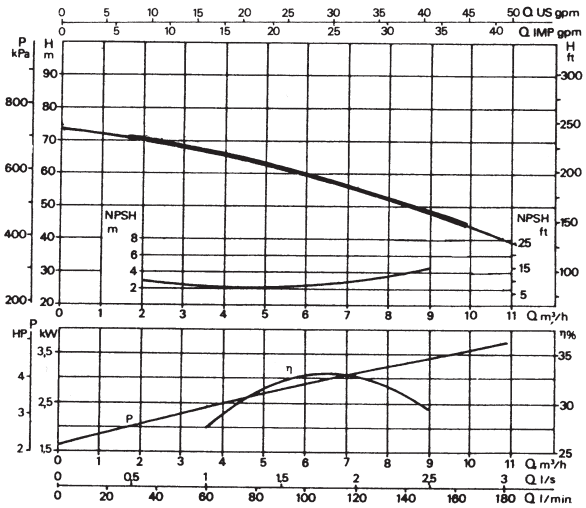
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 66/100

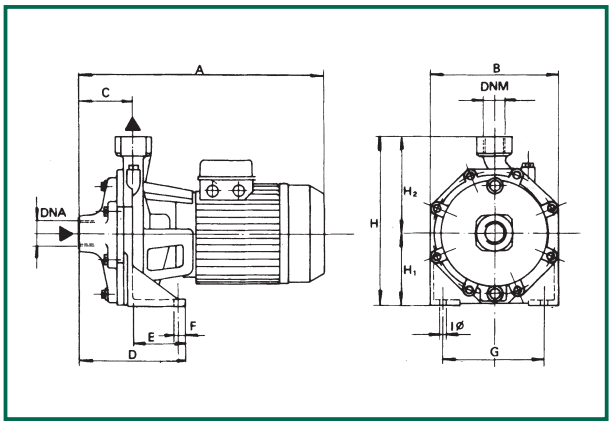


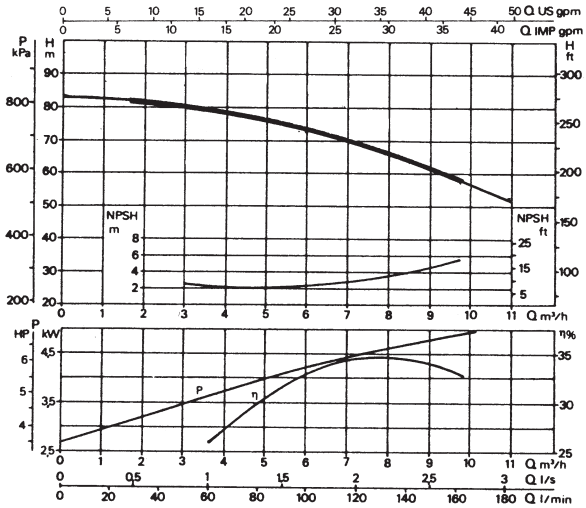


MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 66/100	450	256	88	160	72	18	200	14	312,5	140	172,5	1½" G	1" G	500	274	333	0,045	39,7

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2850 1/min)										
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	1,2	2,4	3,6	4,8	6	6,6	7,2	8,4	9,6
										l/min	0	20	40	60	80	100	110	120	140	160
K 66/100 T	3x230-400 V ~	4,7	3	4	14,6-8,4	103,8-60	2900	80,3	0,84	H (m)	73	72	70	67,5	64	60,5	58,5	57	52	47

K 90/100





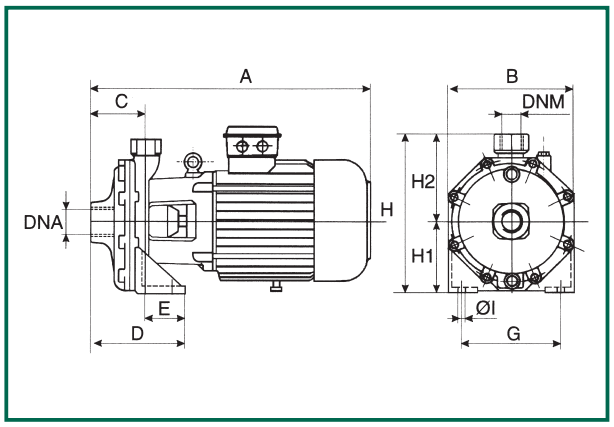
MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 90/100	450	256	88	160	72	18	200	14	312,5	140	172,5	1½" G	1" G	500	274	333	0,045	43

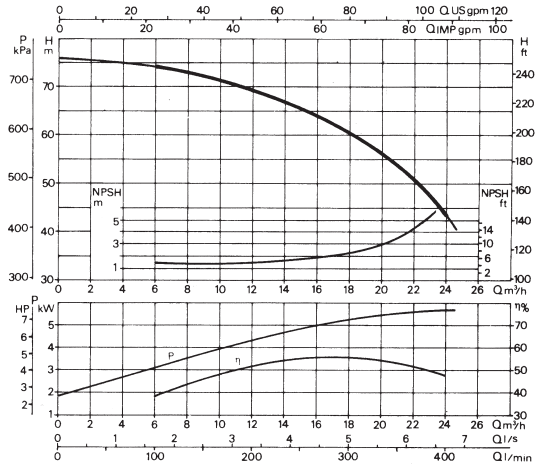
MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2850 1/min)										
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	1,2	2,4	3,6	4,8	6	6,6	7,2	8,4	9,6
										l/min	0	20	40	60	80	100	110	120	140	160
K 90/100 T	3x230-400 V ~	5,4	4	5,5	16,5-9,5	103,8-60	2850	80,3	0,84	H (m)	83,5	82,5	82	79,5	76,5	72,5	70	68	63	58

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 70/300



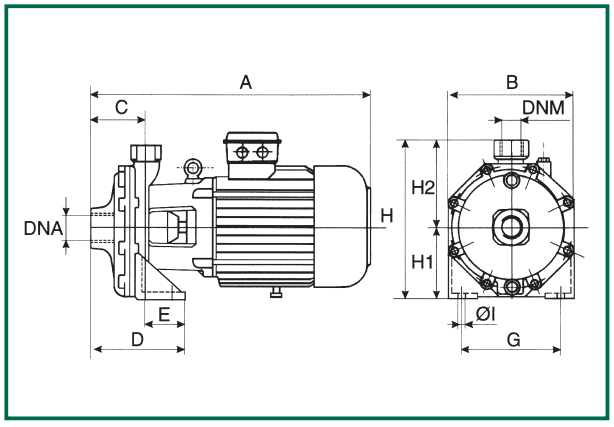


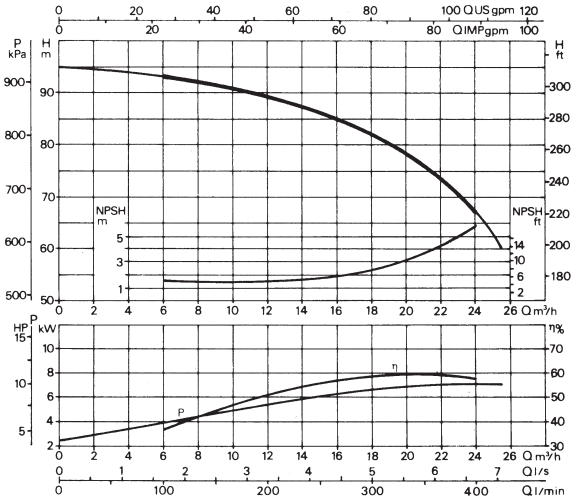
MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 70/300	595	270	122	182	60	20	210	14	340	160	180	2" G	1¼" G	680	330	470	0,106	72

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	7,2	8,4	9,6	10,8	12	18	24
										Q l/min	0	100	120	140	160	180	200	300	400
K 70/300 T	3x400 V ~ ∅*	7,1	5,5	7,5	12,9	77,9	2900	81,6	0,82	H (m)	76	74	73	72,5	71,5	70	69	60,5	43,5

* Star starting is possible (⅄)

K 80/300





MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
K 80/300	595	270	122	182	60	20	210	14	340	160	180	2" G	1¼" G	680	330	470	0,106	78,5

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2850 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	7,2	8,4	9,6	10,8	12	18	24
										Q l/min	0	100	120	140	160	180	220	300	400
K 80/300 T	3x400 V ~ ∅*	9,9	7,5	10	15	118,5	2900	84,2	0,94	H (m)	95	93	92,2	91,5	90,5	90	89,5	82	68

* Star starting is possible (⅄)

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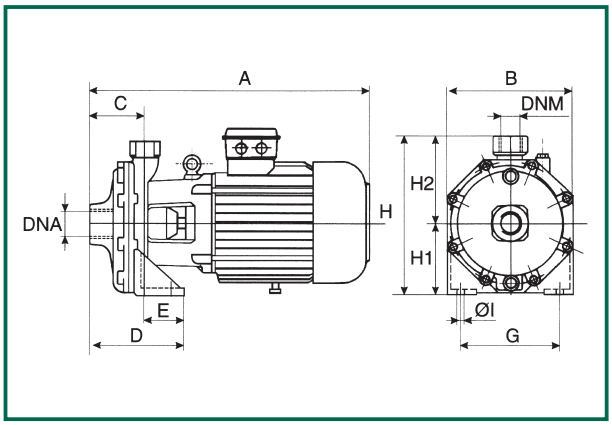
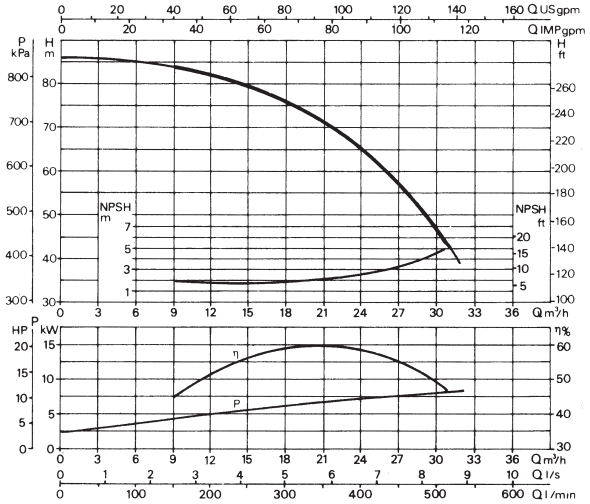
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 70/400



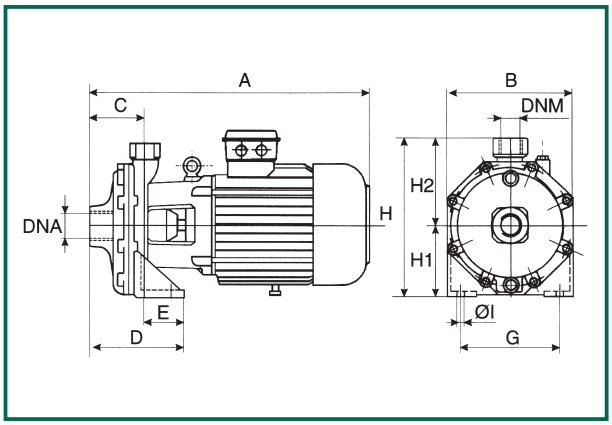


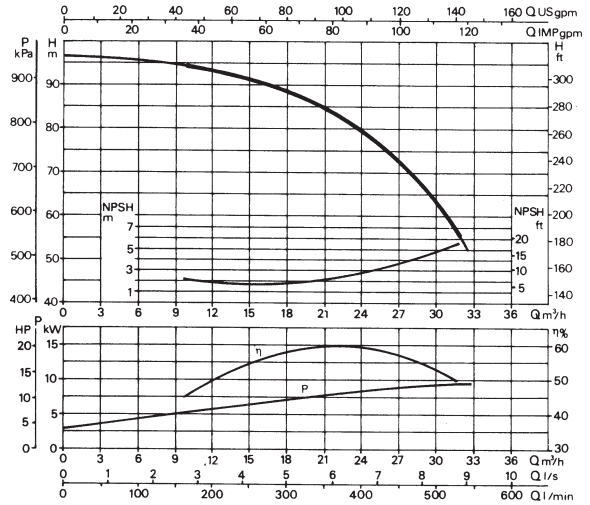
MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
K 70/400	635	270	122	182	60	20	210	14	340	160	180	2" G	1¼" G	680	330	470	0,106	74

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2900 1/min)											
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	9	9,6	10,8	12	15	18	21	24	27	30
										Q l/min	0	150	160	180	200	250	300	350	400	450	500
K 70/400 T	3x400 V ~ ∅*	10,7	9,2	12,5	18	146,6	2900	84,6	0,88	H (m)	86	84	83,2	82,5	82	79	76	72	65	57	47

* Star starting is possible (λ)

K 80/400





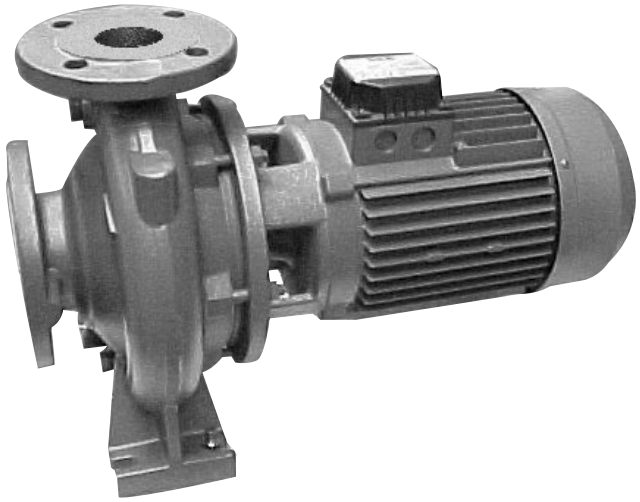
MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
K 80/400	635	270	122	182	60	20	210	14	340	160	180	2" G	1¼" G	680	330	470	0,106	78

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2900 1/min)											
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	9,6	10,8	12	15	18	21	24	27	30	
										Q l/min	0	160	180	200	250	300	350	400	450	500	
K 80/400 T	3x400 V ~ ∅*	12,5	11	15	21	182,6	2900	86,1	0,88	H (m)	97	95	94,5	94	92	89	85	80	73	64	

* Star starting is possible (λ)

NKM NKP

STANDARDISED ENBLOC CENTRIFUGAL ELECTRIC PUMPS



CE

GENERAL DATA

Applications

Enbloc centrifugal electric pumps with integral shaft designed for a wide range of applications, such as:

- Water supply
- Circulation of hot water for central heating.
- Circulation of cold water for air conditioning and refrigerating.
- Transfer of liquids in agriculture, horticulture and industries.
- Implementation of pumping systems

Pump construction characteristics

Single-stage, cast iron spiral body made to DIN-EN 733 (formerly DIN 24255), cast iron support, flanges in accordance with DIN 2533. Cast iron impeller, encased and dynamically balanced with compensation of the axial thrust by means of balancing holes, operating (on request) with interchangeable consumable rings. AISI 304 stainless steel pump shaft.
Seal: standardised mechanical seal made to DIN 24960 in carbon / carborundum with or rings in EPDM.

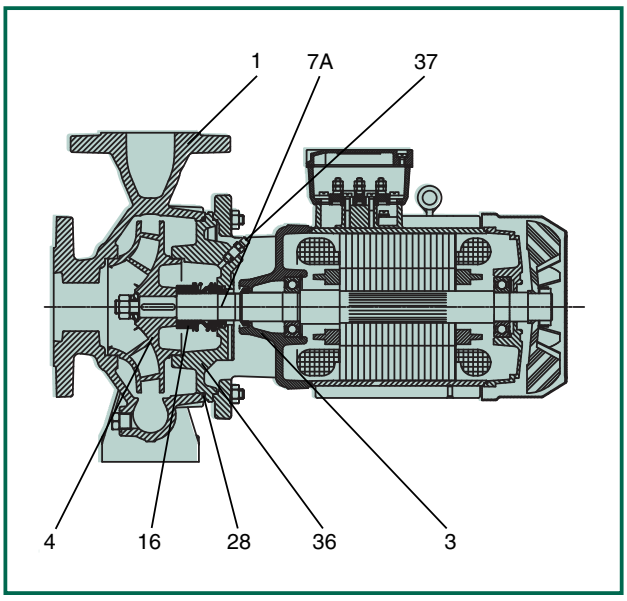
Motor construction characteristics

Closed, asynchronous motor with external ventilation, 2 poles for NKP and 4 poles for NKM. Rotor mounted on oversized ball bearings to ensure silent running and long life. We recommend using overload protection for the motor, in accordance with current norms. In the case of liquids denser than water, the motors must be proportionally more powerful.
Built to: IEC 2-3 standards
Protection level: IP 55
Insulation level: F
Standard voltage: 230/400 V 50 Hz up to 2,2 kW included
400 V ∅50 Hz over 2,2 kW

DAB PUMPS reserve the right to make modifications without prior notice

TECHNICAL DATA

N.	PARTS	MATERIALS (STANDARD VERSION)
1	PUMP BODY	CAST IRON 250 UNI ISO 185
3	SUPPORT	CAST IRON 250 UNI ISO 185
4	IMPELLER	CAST IRON 250 UNI ISO 185
7A	PUMP SHAFT	STAINLESS STEEL AISI 304 - UNI 6900/71
16	MECHANICAL SEAL	CARBON/CARBORUNDUM - EPDM
28	GASKET OR	EDPM
36	SEAL DISC	CAST IRON 250 UNI ISO 185
37	BLEED COCK	STAINLESS STEEL AISI 304 - UNI 6900/71



- Speed of rotation: 1450 - 2900 1/min.
- Operating range: from 1 to 105 m^3/h with head up to 96 metres.
- Characteristics of pumped liquid: clean, free from solids or abrasive substances, not viscous, not aggressive, not crystallised and chemically neutral and close to the characteristics of water.
- Liquid temperature range: from -10°C to +140°C
- Maximum ambient temperature: +40°C
- Maximum operating pressure: 16 bar - 1600 kPa
- Flanging: PN 16 DIN 2533
- Installation: normally horizontal or vertical provided the motor is always above the pump.
- Special versions on request: pumps for liquids other than water.
  Other voltages and/or frequencies.

Description of the mechanical seal

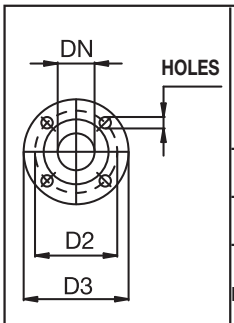
Item	Code	Description of the seal
1	A	O ring with fixed guide
	B	Rubber bellows seal
	C	O ring with spring guide
	D	Balanced O ring
	M	Metal bellows seal
	X	Other seal types
Item	Code	Materials
2 & 3	A	Impregnated carbon/metal
	B	Impregnated carbon/resin
	C	Other carbon types
	S	Chromium steel
	U	Tungsten carbide
	Q	Carborundum
	V	Aluminium oxide (ceramic)
	X	Other ceramic types
Item	Code	Materials
4	P	Nitrile rubber (NBR)
	S	Silicone rubber
	T	Teflon (PTFE)
	E	EPDM
	V	Viton
	M	PTFE coated O ring
Item	Code	Materials
5	v	Reinforced

Description of the product

NKM 50 - 200 / 210/ A /BAQE / 2,2 /4 M

NKM = 4 poles
NKP = 2 poles
Nominal diameter of discharge port:
Nominal impeller diameter:
Actual impeller diameter:
Code for materials:
A = Cast Iron
B = Cast iron with bronze impeller
Seal Description
Motor power in KW
No. of poles
4P = 4 poles
2P = 2 poles
Single-phase Version (2 poles of 2,2 - 3 - 4kW)

FLANGE DIMENSIONS (mm)



		Nominal diameter (DN)			
		DIN 2533 PN 16			
DN		32	40	50	65
D2		100	110	125	145
D3		140	150	165	185
HOLES	Ø	18			
	N°	4			

DAB PUMPS reserve the right to make modifications without prior notice

Description of the product code

Impeller's nominal diameter	Code
125	1
160	2
200	3
250	4
125.1	K
160.1	L
200.1	M

Code	Pump/impeller materials
1	A (01) = cast iron/cast iron
2	B (03) = cast iron/bronze
5	A (01) + Wr*
6	B (03) + Wr*

* With consumable rings

Code	P2 nominal kW
1	0,37
2	0,55
3	0,75
4	1,1
5	1,5
6	2,2
7	3
8	4
9	5,5
A	7,5
B	11
C	15
D	18,5
E	22
F	30

Pump type	Code
32	1
40	2
50	3

Code	Seal available
1	BAQE
5	BQQV*
7	BAQV*
G	BQQE*

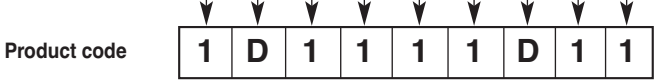
* On request

Identification	Code
DAB PUMPS S.p.A.	D

	Code
DAB PUMPS S.p.A.	1

Code	Pump type
D	NKM / NKP

Code	Voltage	Poles
0	Only hydraulic part	
1	3x220-240 / 380-415V 50 Hz 3x220-265 / 380-460V 60 Hz	2
2	3x380-415 50 Hz 3x380-460V 60 Hz	2
3	3x220-240 / 380-415V 50 Hz 3x220-265 / 380-460V 60 Hz	4
4	3x380-415 50 Hz 3x380-460V 60 Hz	4



PERFORMANCE RANGE

NUMERICAL SELECTION TABLE
≅ 1450 1/min

MODEL	P2 NOMINAL kW	P2 NOMINAL HP	Q m³/h	0	6	12	18	24	30	36	42	48	54	60
			l/min	0	100	200	300	400	500	600	700	800	900	1000
NKM 32-125.1/140/0.25/4	0.25	0.33		6.2	5.8	4.2								
NKM 32-125/142/0.37/4	0.37	0.5		7	6.75	5.85	4.2							
NKM 32-160.1 169/0.37/4	0.37	0.5		8.9	8.2	4.6								
NKM 32-160/169/0,55/4	0.55	0.75		9.4	9	7.9	5.6							
NKM 32-200.1 200/0,55/4	0.55	0.75		12.7	11.2	7.2								
NKM 32-200/200/0,75/4	0.75	1		13	12.5	11.1	8.45							
NKM 32-200/219/1,1 /4	1.1	1.5		16	15.4	14.3	12.2							
NKM 40-125/115/0.25/4	0.25	0.33		4.2	4.1	3.7	3	2.1						
NKM 40-125/130/0.37/4	0.37	0.5		5.4	5.3	5.	4.4	3.5						
NKM 40-125/142/0.55/4	0.55	0.75		6.6	6.5	6.2	5.7	4.8						
NKM 40-160/153/0.55/4	0.55	0.75		7.6	7.7	7.6	6.7	5.5						
NKM 40-160/166/0.75/4	0.75	1	H (m)	9.2	9.2	9	8.4	7.4	5.7					
NKM 40-200/200/1,1/4	1.1	1.5		12.6	12.6	12.3	11.2	9.7	7.7					
NKM 40-200/219/1,5/4	1.5	2		15.6	15.6	15.3	14.7	13.4	11.8	9.8				
NKM 40-250/245/2,2/4	2.2	3		20.6	20.5	20.1	19.2	17.8	16					
NKM 40-250/260/3/4	3	4		23.3	23.1	22.8	22.2	20.8	19					
NKM 50-125/130/0.55/4	0.55	0.75		5.5		5.2	5	4.7	4.3	3.9	3.3	2.6		
NKM 50-125/141/0.75/4	0.75	1		6.5		6.3	6.1	5.8	5.5	5	4.5	3.9		
NKM 50-160/161/1.1/4	1.1	1.5		8.7		8.7	8.5	8.2	7.8	7.3	6.7	5.7		
NKM 50-160/177/1,5/4	1.5	2		10.8		10.8	10.7	10.5	10.2	9.8	9.2	8.3		
NKM 50-200/210/2,2/4	2.2	3		15.3		15.3	15.2	14.8	14	13.3	12.1	10.8	9.4	
NKM 50-200/219/3/4	3	4		16.8		16.8	16.5	16.1	15.5	14.6	13.6	12.4	10.9	
NKM 50-250/263/4/4	4	5.5		23.8		24	23.8	23.4	22.7	21.6	20.4	19	17.1	

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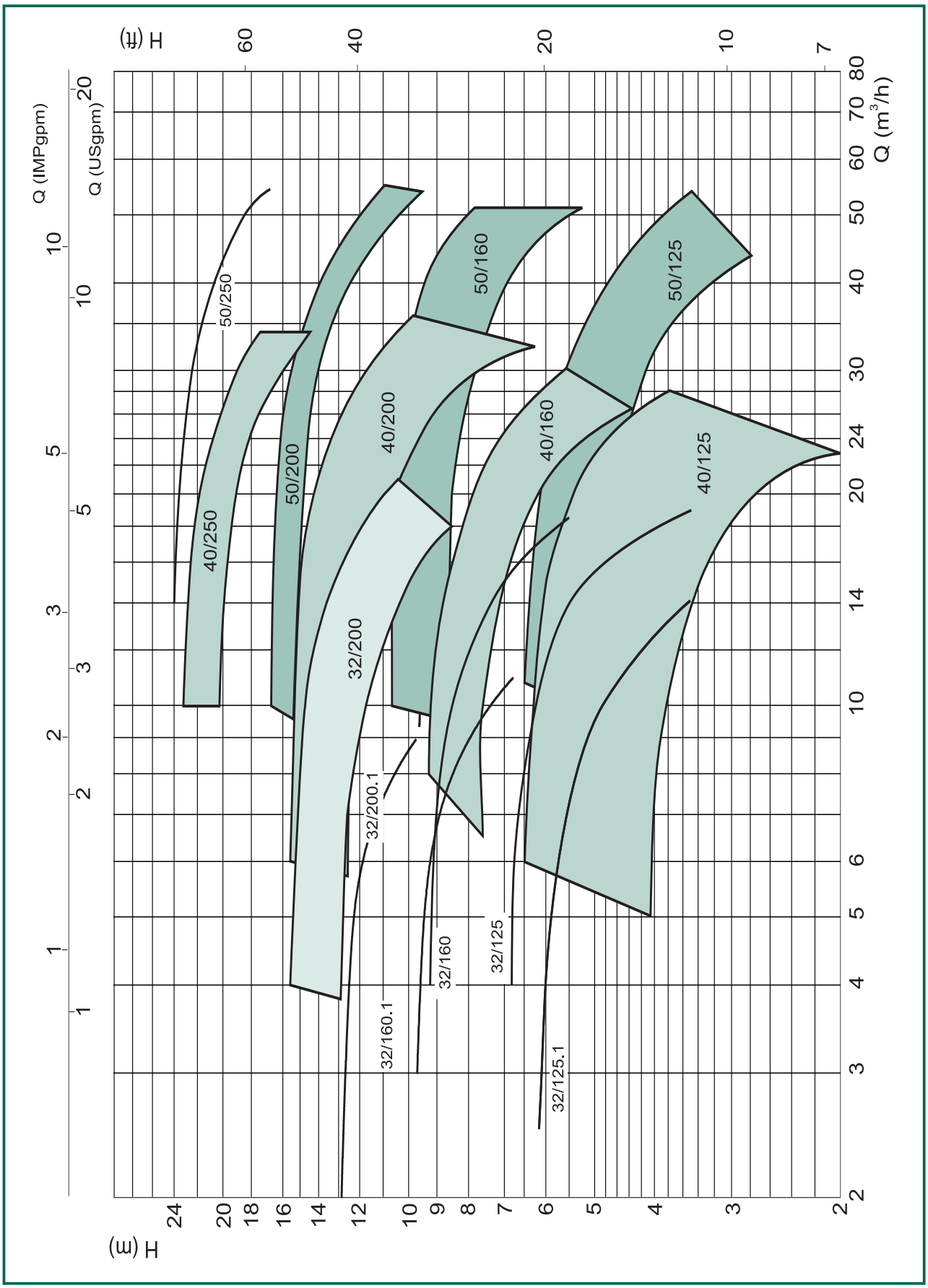
PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

≅ 1450 1/min

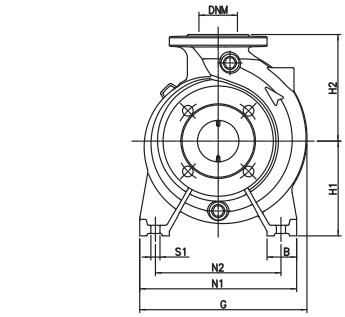


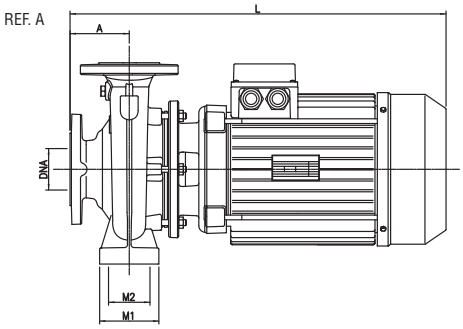
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

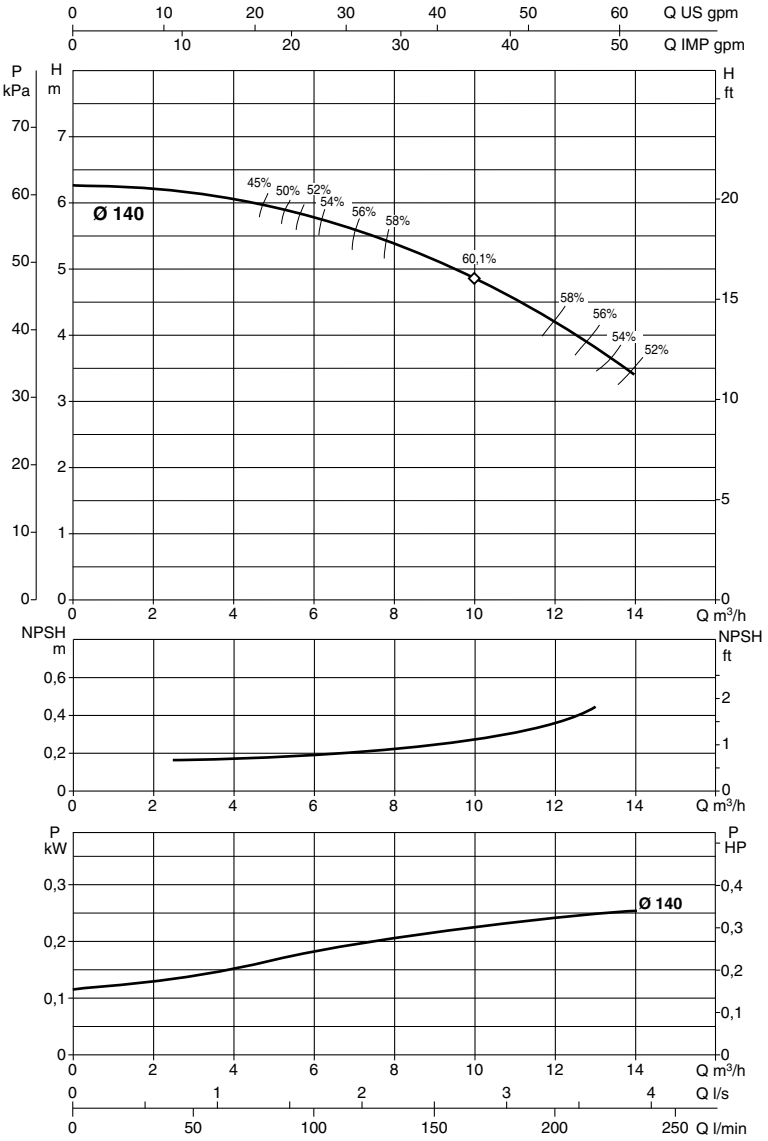
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 32-125.1

≅ 1450 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKM 32-125.1/140/0.25/4	A	50	32	80	50	–	234	112	140	416,5	100	70	190	140	M12	–	–	28	680	430	575	0,168	34,1

MODEL	ELECTRICAL DATA									HYDRAULIC DATA				
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18
										l/min	0	100	200	300
NKM 32-125.1/140/0.25/4	230/400 V	0,41	0.25	0.33	1,6-0,9	4,6-2,7	1400	60	0,71	H (m)	6.2	5.8	4.2	–

DAB PUMPS reserve the right to make modifications without prior notice

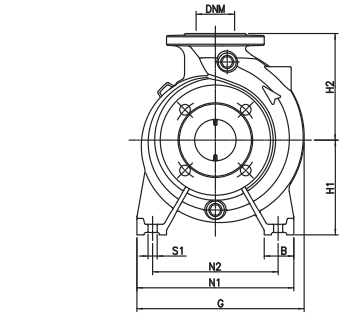
DAB PUMP PERFORMANCE

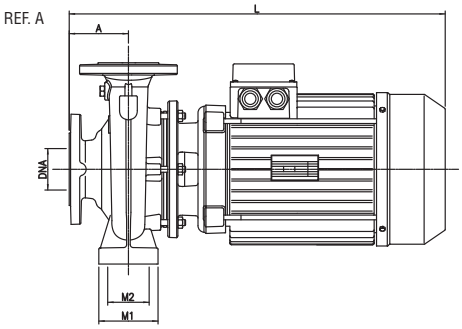
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

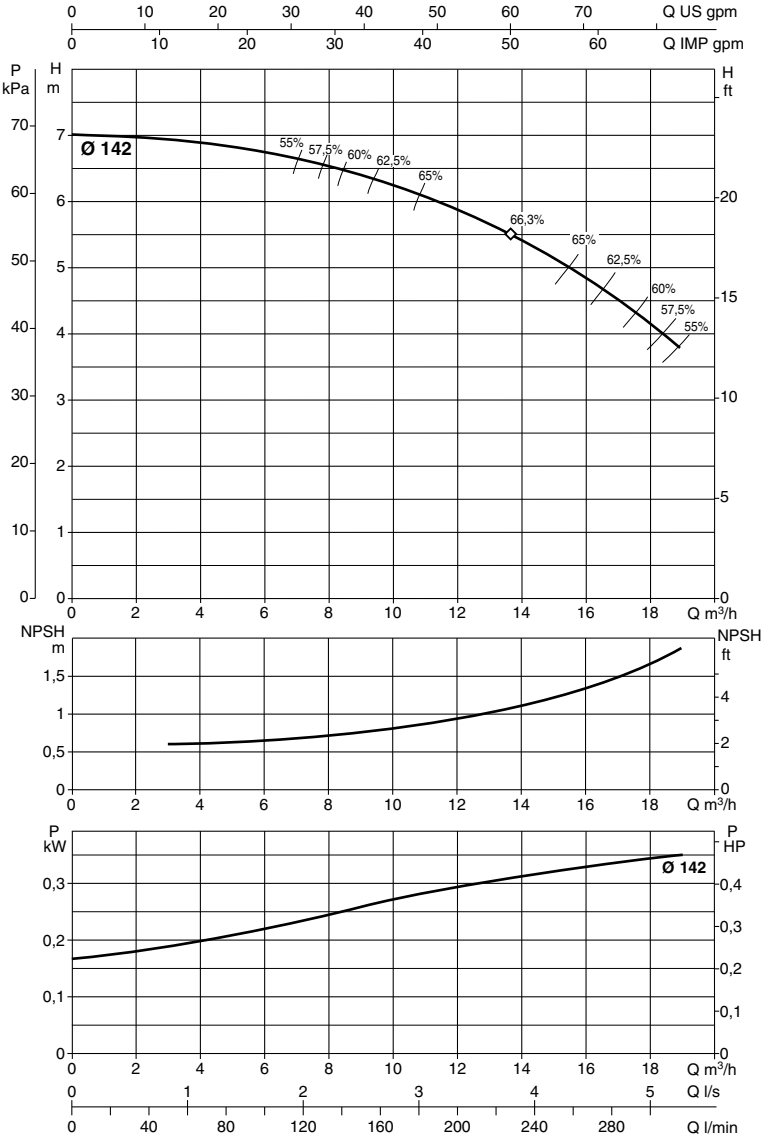
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 32-125

≅ 1450 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKM 32-125/142/0.37/4	A	50	32	80	50	–	234	112	140	416,5	100	70	190	140	M12	–	–	28	680	430	575	0,168	34,9

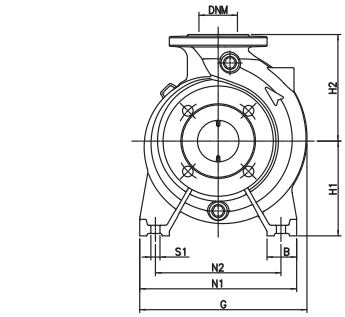
MODEL	ELECTRICAL DATA									HYDRAULIC DATA				
	Voltage	P1 MAX kW	P2 Nominal kW	HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18
										l/min	0	100	200	300
NKM 32-125/142/0.37/4	230/400 V	0,53	0.37	0.5	2,1-1,2	6,5-3,7	1390	66	0,72	H (m)	7	6,75	5,85	4,2

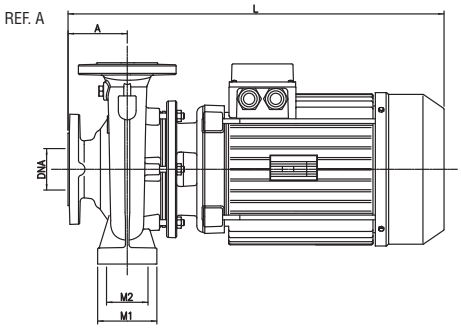
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

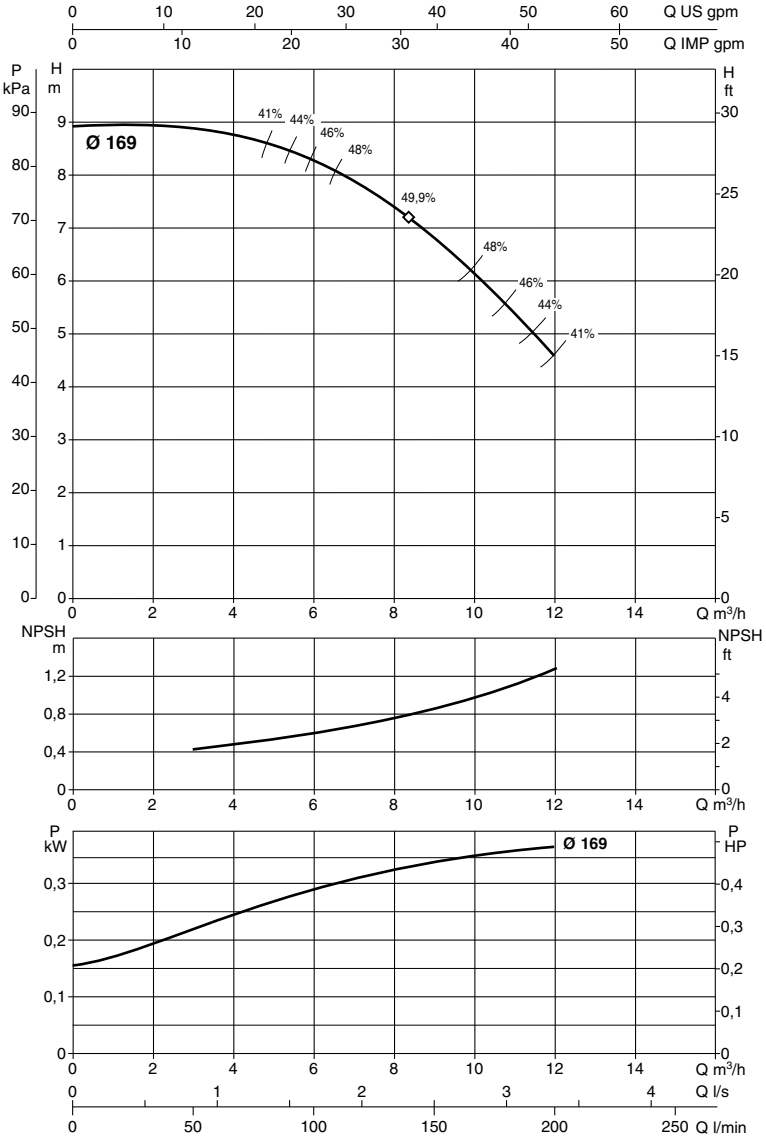
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 32-160.1

≅ 1450 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 32-160.1/169/0.37/4	A	50	32	80	50	–	245	132	160	416,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	36,6

MODEL	ELECTRICAL DATA									HYDRAULIC DATA				
	Voltage	P1 MAX kW	P2 Nominal kW	HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18
										l/min	0	100	200	300
NKM 32-160.1/169/0.37/4	230/400 V	0,6	0.37	0.5	2,1-1,2	6,5-3,7	1380	48,3	0,72	H (m)	8,9	8,2	4,6	–

DAB PUMPS reserve the right to make modifications without prior notice

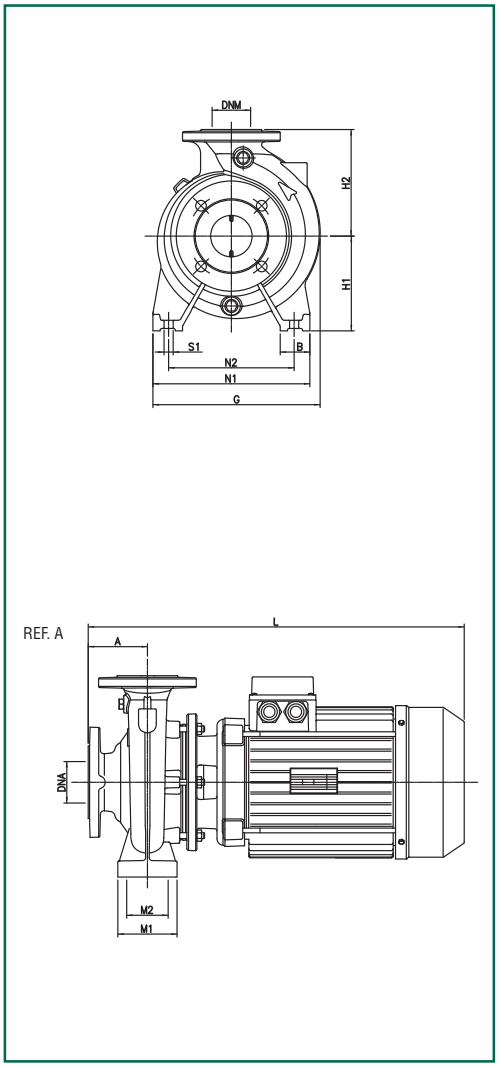
DAB PUMP PERFORMANCE

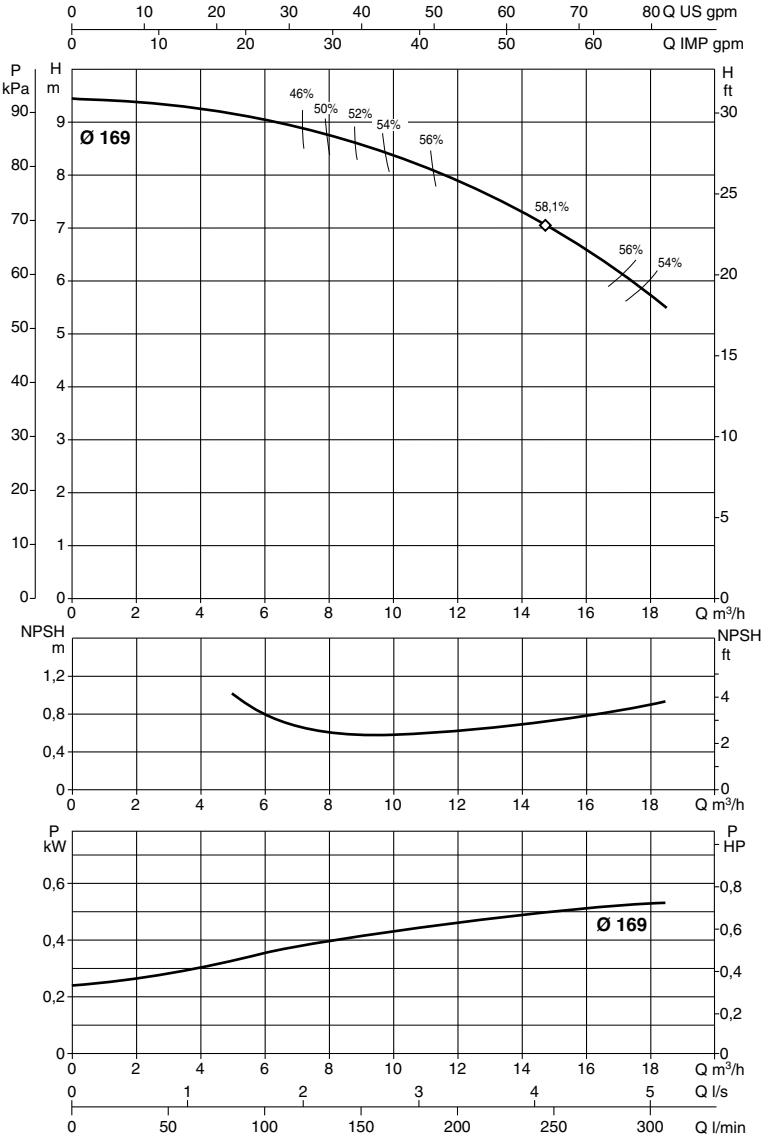
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 32-160

≅ 1450 1/min





MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 32-160/169/0,55/4	A	50	32	80	50	–	245	132	160	440	100	70	240	190	M12	–	–	28	680	430	575	0,168	38,9

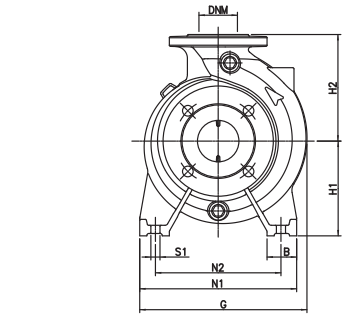
MODEL	ELECTRICAL DATA									HYDRAULIC DATA				
	Voltage	P1 MAX kW	P2 Nominal kW	HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18
										l/min	0	100	200	300
NKM 32-160/169/0,55/4	230/400 V	0,8	0.55	0.75	2,9-1,7	11,4-6,4	1400	58,2	0,73	H (m)	9,4	9	8,8	5,6

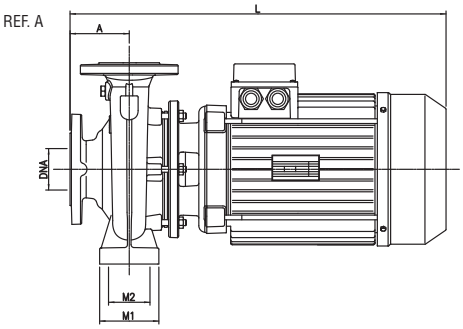
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

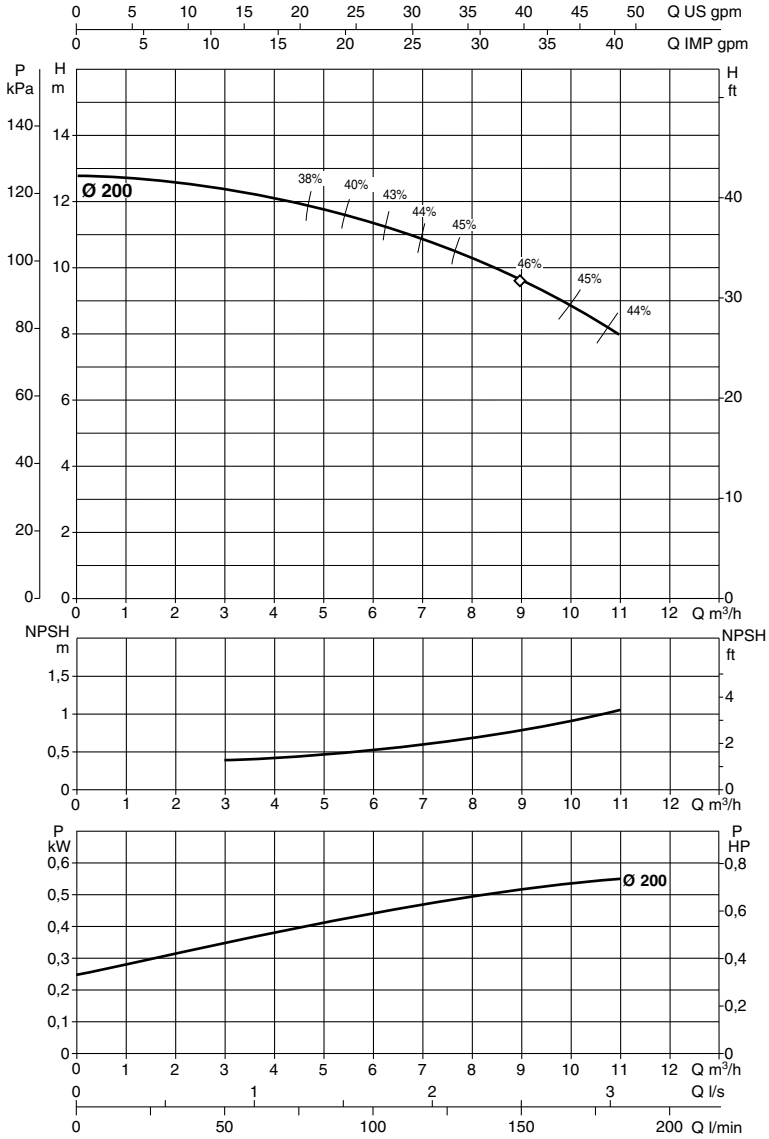
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 32-200.1

≅ 1450 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 32-200.1/200/0,55/4	A	50	32	80	50	–	278	160	180	439,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	51,2

MODEL	ELECTRICAL DATA									HYDRAULIC DATA				
	Voltage	P1 MAX kW	P2 Nominal kW	HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18
										l/min	0	100	200	300
NKM 32-200.1/200/0,55/4	230/400 V	0,8	0,55	0,75	2,9-1,7	11,4-6,4	1396	45,5	0,73	H (m)	12,7	11,2	7,2	–

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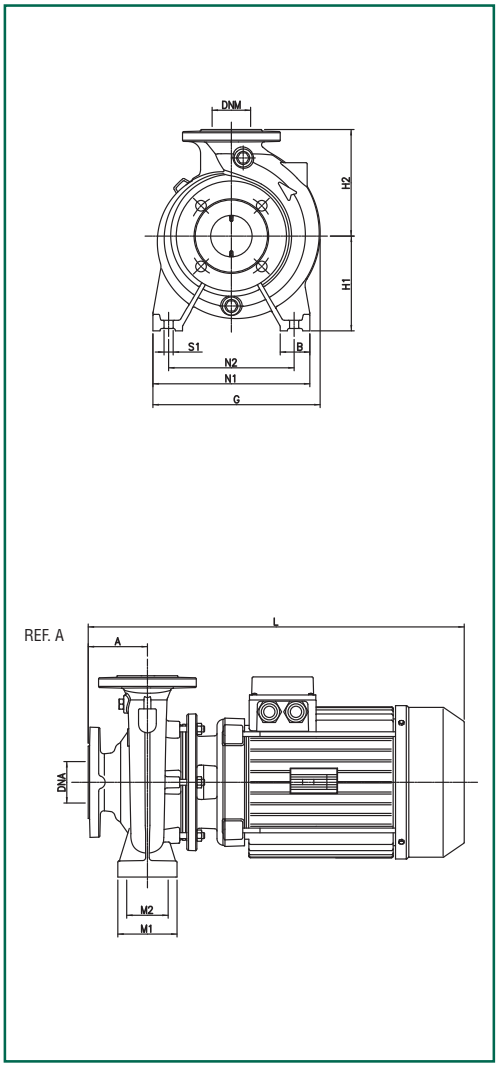
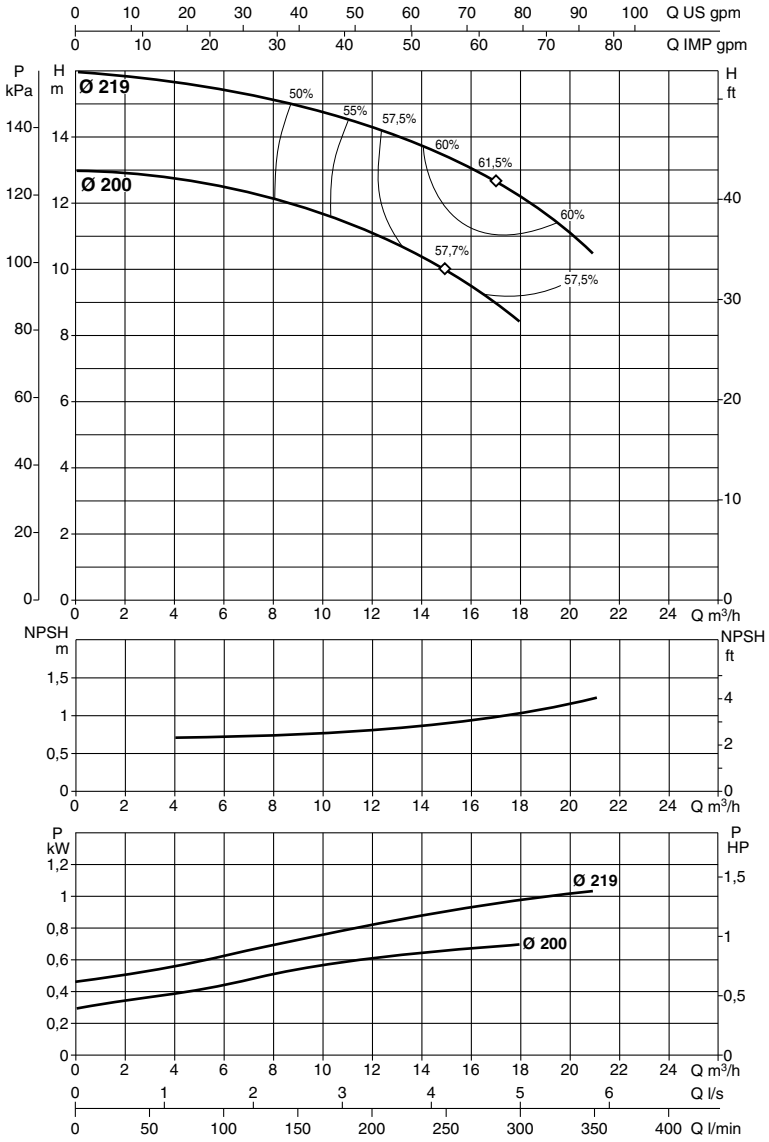
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 32-200

≅ 1450 1/min





MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 32-200/200/0,75/4	A	50	32	80	50	–	278	160	180	439,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	51,7
NKM 32-200/219/1,1/4	A	50	32	80	50	–	278	160	180	439,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	52,8

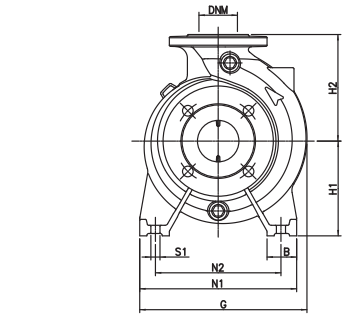
MODEL	ELECTRICAL DATA									HYDRAULIC DATA							
	Voltage	P1 MAX kW	P2 Nominal kW	HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36
										l/min	0	100	200	300	400	500	600
NKM 32-200/200/0,75/4	230/400 V	1,1	0,75	1	3,8-2,2	15,1-6	1390	57,8	0,73	H (m)	13	12.5	11.1	8.45	–	–	–
NKM 32-200/219/1,1/4	230/400 V	1,4	1,1	1,5	5,2-3,0	21,9-12,9	1403	61,7	0,77		16	15.4	14.3	12.2	–	–	–

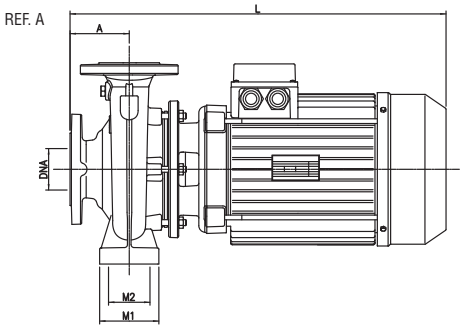
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

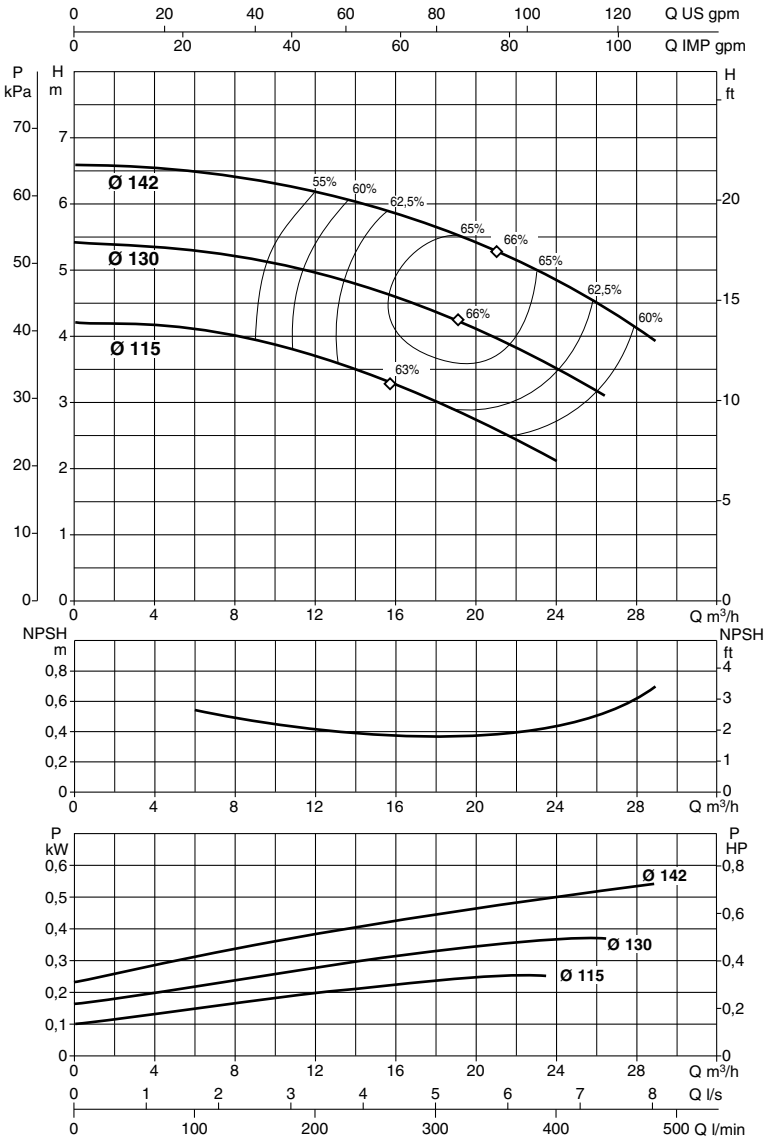
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 40-125

≅ 1450 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 40-125/115/0.25/4	A	65	40	80	50	–	235	112	140	416,5	100	70	210	160	M12	–	–	28	680	430	575	0,168	35,5
NKM 40-125/130/0.37/4	A	65	40	80	50	–	235	112	140	416,5	100	70	210	160	M12	–	–	28	680	430	575	0,168	36,3
NKM 40-125/142/0.55/4	A	65	40	80	50	–	235	112	140	440	100	70	210	160	M12	–	–	28	680	430	575	0,168	38,5

MODEL	ELECTRICAL DATA									HYDRAULIC DATA							
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36
										l/min	0	100	200	300	400	500	600
NKM 40-125/115/0.25/4	230/400 V	0,4	0,25	0,33	1,6-0,9	4,6-2,7	1400	63	0,71	H (m)	4.2	4.1	3.7	3	2.1	–	–
NKM 40-125/130/0.37/4	230/400 V	0,6	0,37	0,5	2,1-1,2	6,5-3,7	1380	66,4	0,72		5.4	5.3	5	4.4	3.5	–	–
NKM 40-125/142/0.55/4	230/400 V	0,8	0,55	0,75	2,9-1,7	11,4-6,4	1390	66,4	0,73		6.6	6.5	6.2	5.7	4.8	–	–

DAB PUMPS reserve the right to make modifications without prior notice

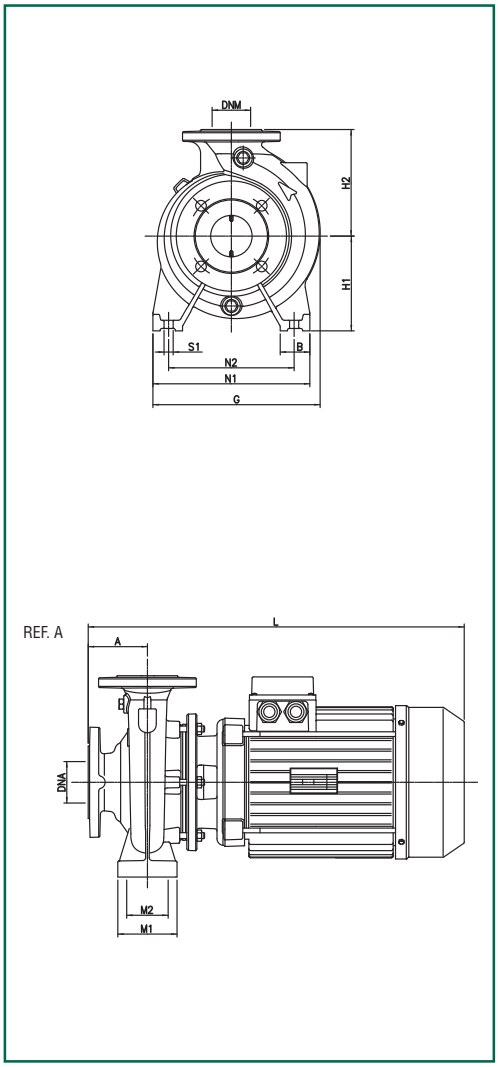
DAB PUMP PERFORMANCE

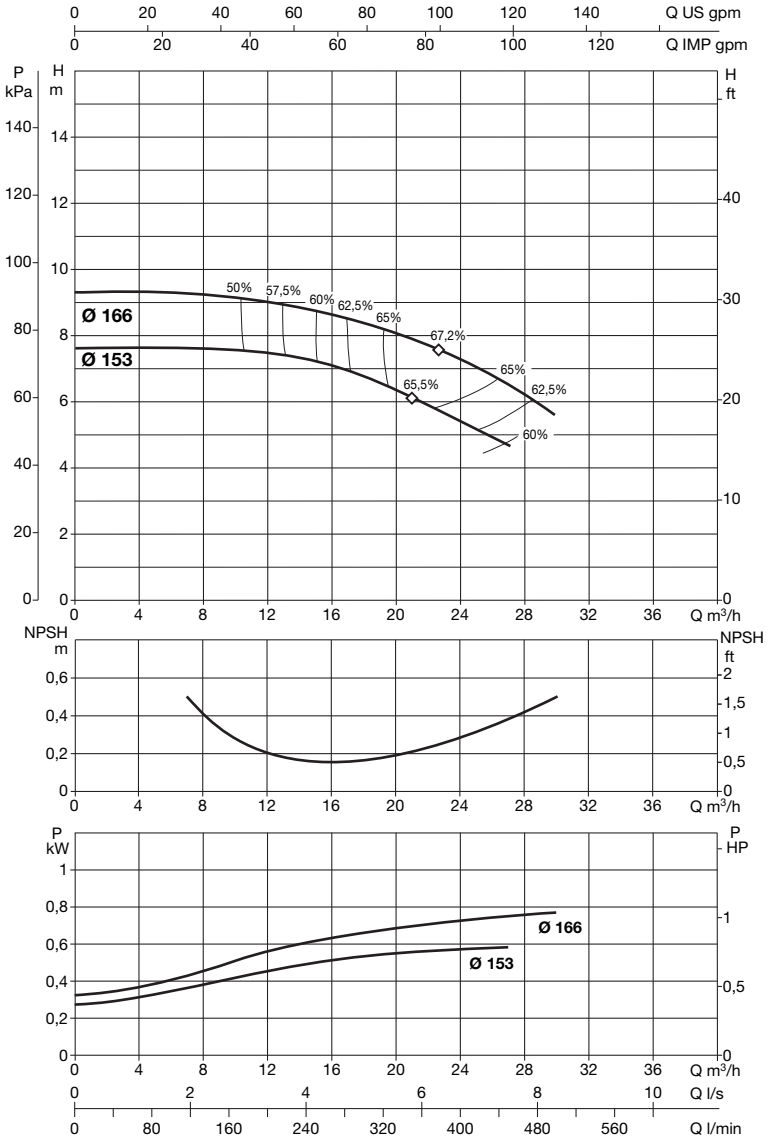
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 40-160

≅ 1450 1/min





MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 40-160/153/0.55/4	A	65	40	80	50	–	253	132	160	440	100	70	240	190	M12	–	–	28	680	430	575	0,168	40,7
NKM 40-160/166/0.75/4	A	65	40	80	50	–	253	132	160	440	100	70	240	190	M12	–	–	28	680	430	575	0,168	42,1

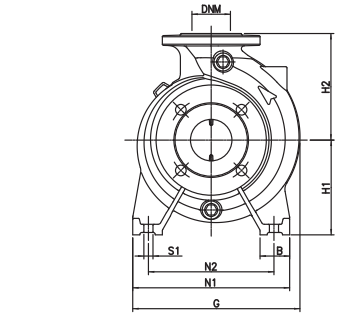
MODEL	ELECTRICAL DATA									HYDRAULIC DATA							
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36
										l/min	0	100	200	300	400	500	600
NKM 40-160/153/0.55/4	230/400 V	0,89	0,55	0,75	2,9-1,7	11,4-6,4	1390	65,8	0,73	H (m)	7.6	7.7	7.6	6.7	5.5	–	–
NKM 40-160/166/0.75/4	230/400 V	1,1	0,75	1	3,8-2,2	15,1-6	1390	67	0,73		9.2	9.2	9	8.4	7.4	5.7	–

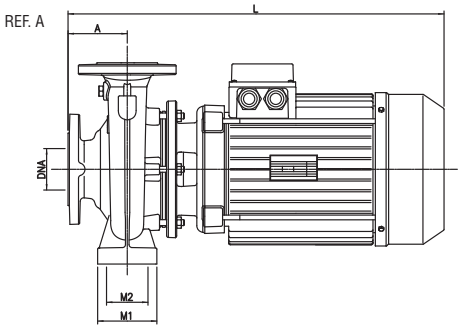
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

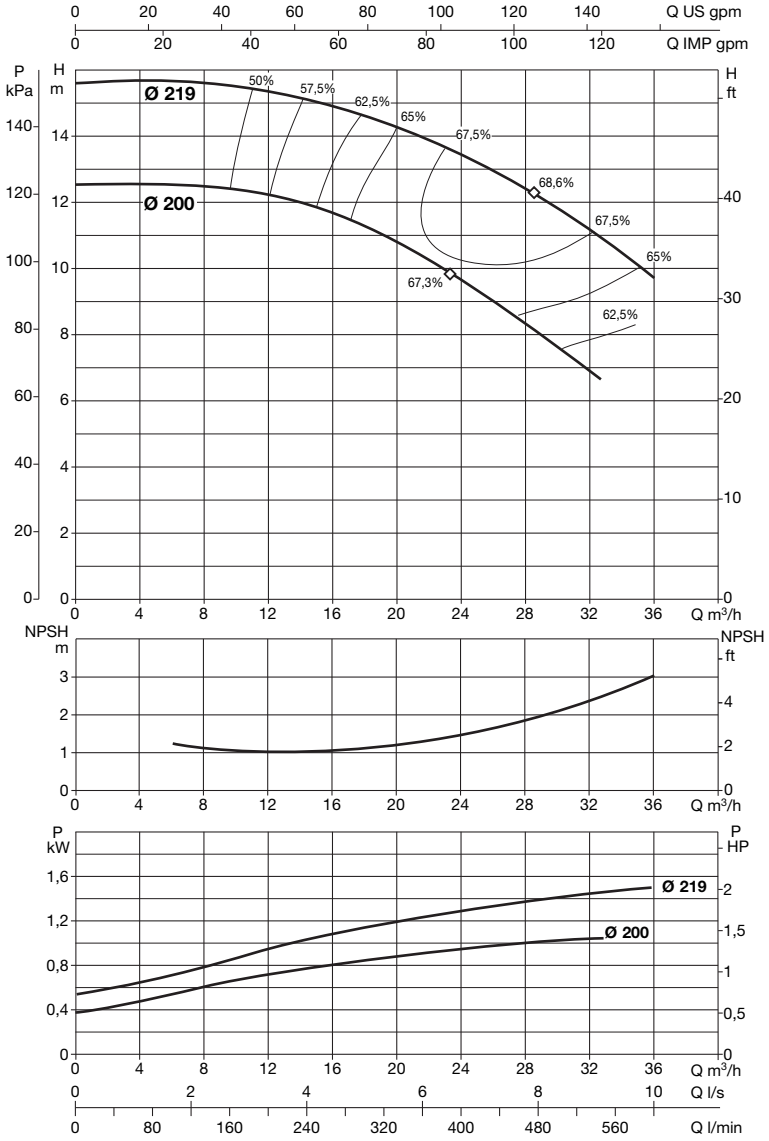
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 40-200

≅ 1450 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 40-200/200/1,1/4	A	65	40	100	50	–	296	160	180	459,5	100	70	265	212	M12	–	–	28	680	430	575	0,168	55,5
NKM 40-200/219/1,5/4	A	65	40	100	50	–	296	160	180	483	100	70	265	212	M12	–	–	28	680	430	575	0,168	58,0

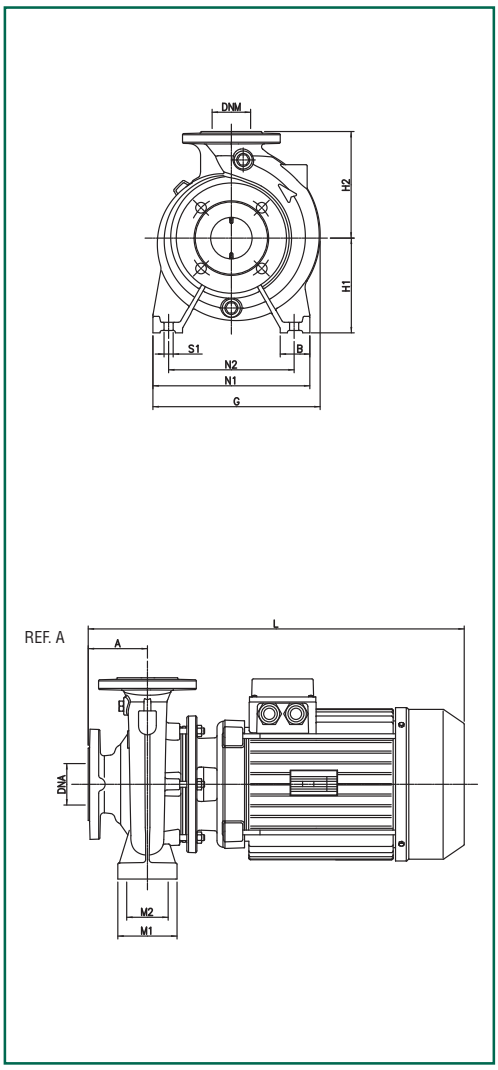
MODEL	ELECTRICAL DATA									HYDRAULIC DATA							
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36
										l/min	0	100	200	300	400	500	600
NKM 40-200/200/1,1/4	230/400 V	1,5	1,1	1,5	5,2-3,0	21,9-2,9	1401	67,5	0,77	H (m)	12.6	12.6	12.3	11.2	9.7	7.7	–
NKM 40-200/219/1,5/4	230/400 V	2,1	1,5	2	6,4-3,7	30-17,4	1395	68,4	0,78		15.6	15.6	15.3	14.7	13.4	11.8	9.8

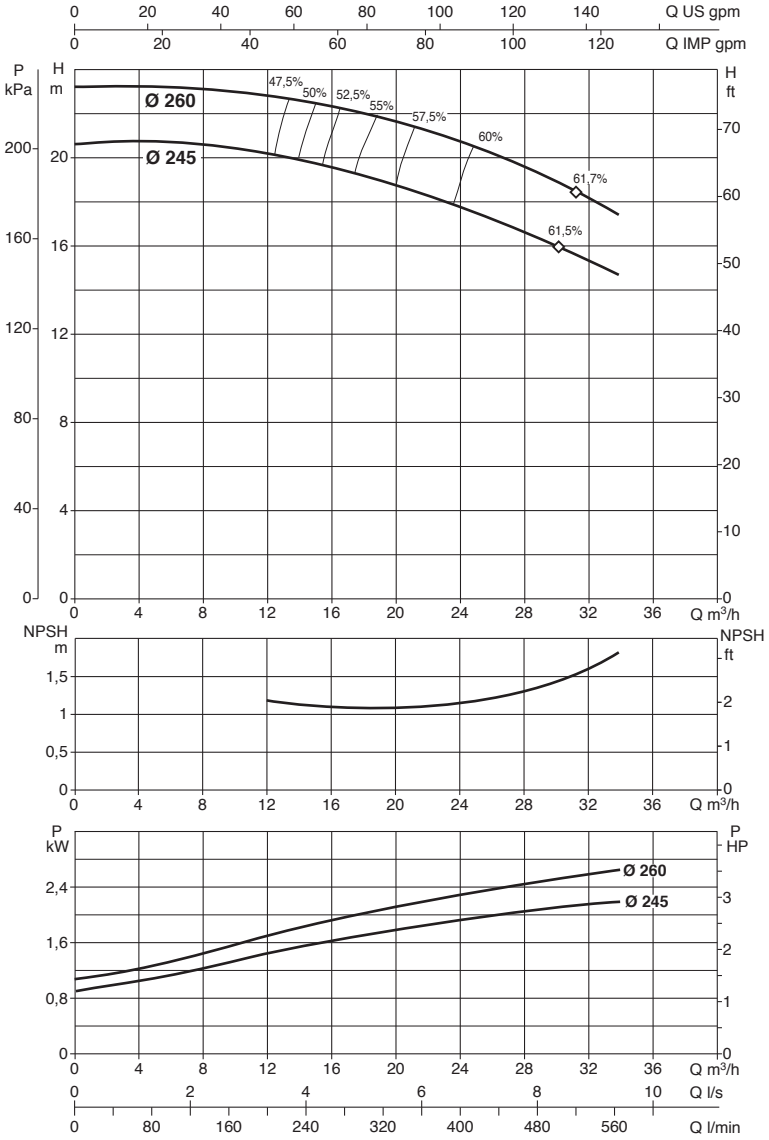
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 40-250

≅ 1450 1/min





MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 40-250/245/2,2/4	A	65	40	100	65	–	335	180	225	483	125	95	320	250	M12	–	–	28	680	430	575	0,168	68,7
NKM 40-250/260/3/4	A	65	40	100	65	–	335	180	225	529	125	95	320	250	M12	–	–	28	680	430	575	0,168	74,4

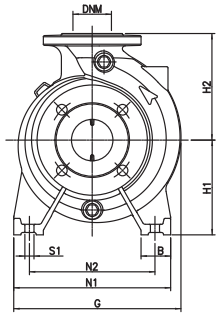
MODEL	ELECTRICAL DATA									HYDRAULIC DATA							
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36
										l/min	0	100	200	300	400	500	600
NKM 40-250/245/2,2/4	230/400 V	2,8	2,2	3	9,2-5,3	47-27	1390	62	0,78	H (m)	20.6	20.5	20.1	19.2	17.8	16	–
NKM 40-250/260/3/4	400 V	3,5	3	4	7,1	37,6	1415	62	0,79		23.3	23.1	22.8	22.2	20.8	19	–

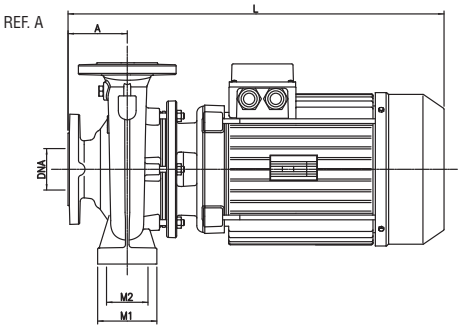
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

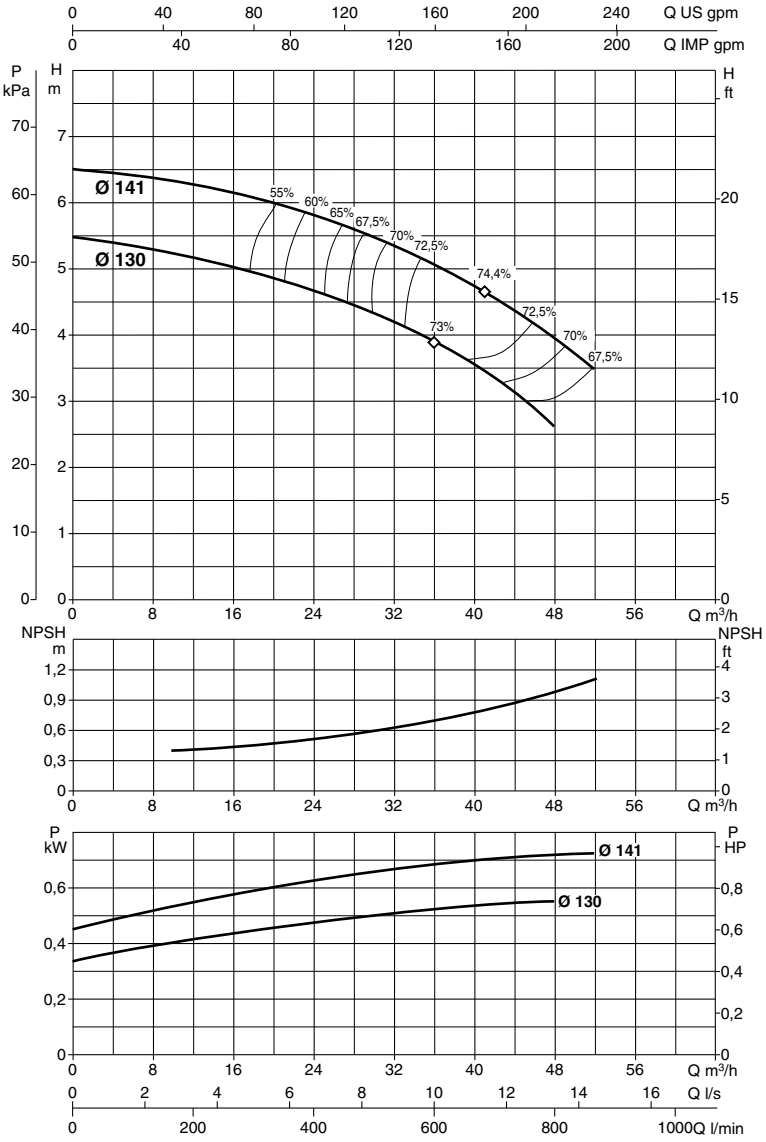
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 50-125

≅ 1450 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 50-125/130/0.55/4	A	65	50	100	50	–	250	132	160	460	100	70	240	190	M12	–	–	28	680	430	575	0,168	41,5
NKM 50-125/141/0.75/4	A	65	50	100	50	–	250	132	160	460	100	70	240	190	M12	–	–	28	680	430	575	0,168	42,9

MODEL	ELECTRICAL DATA									HYDRAULIC DATA									
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	12	18	24	30	36	42	48
										l/min	0	200	300	400	500	600	700	800
NKM 50-125/130/0.55/4	230/400 V	0,8	0,55	0,75	2,9-1,7	11,4-6,4	1396	73	0,73	H (m)	5.5	5.2	5	4.7	4.3	3.9	3.3	2.6
NKM 50-125/141/0.75/4	230/400 V	1,1	0,75	1	3,8-2,2	15,1-6	1390	74,2	0,73		6.5	6.3	6.1	5.8	5.5	5	4.5	3.9

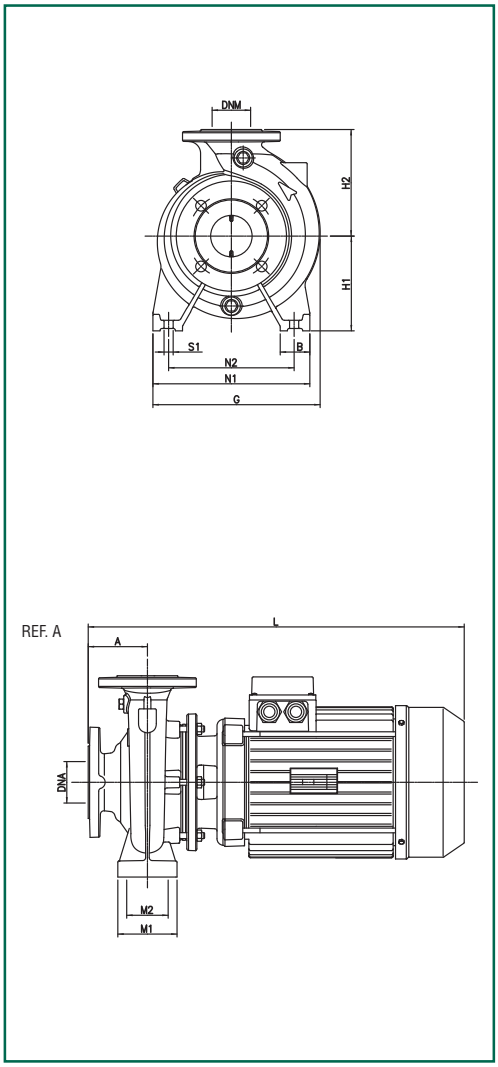
DAB PUMPS reserve the right to make modifications without prior notice

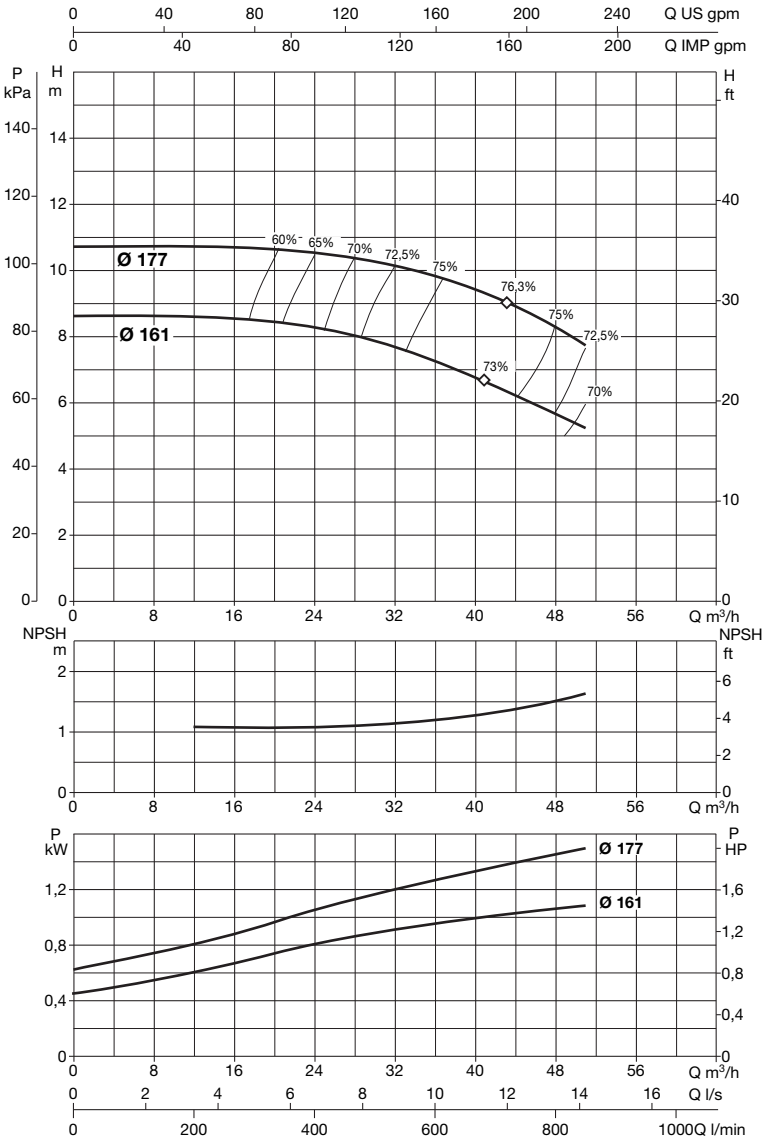
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 50-160

≅ 1450 1/min





MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 50-160/161/1.1/4	A	65	50	100	50	–	282	160	180	460	100	70	265	212	M12	–	–	28	680	430	575	0,168	45,4
NKM 50-160/177/1,5/4	A	65	50	100	50	–	282	160	180	483,5	100	70	265	212	M12	–	–	28	680	430	575	0,168	47,9

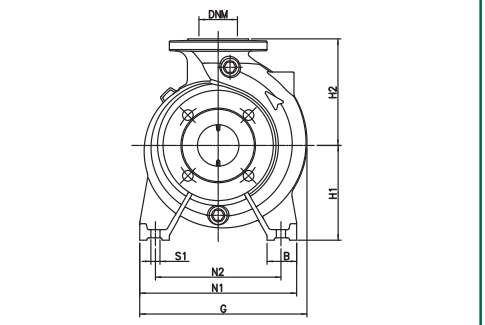
MODEL	ELECTRICAL DATA									HYDRAULIC DATA								
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	12	18	24	30	36	42	48
										l/min	0	200	300	400	500	600	700	800
NKM 50-160/161/1.1/4	230/400 V	1,46	1,1	1,5	5,2-3,0	21,9-2,9	1403	76	0,77	H (m)	8.7	8.7	8.5	8.2	7.8	7.3	6.7	5.7
NKM 50-160/177/1,5/4	230/400 V	2,1	1,5	2	6,4-3,7	30-17,4	1395	76	0,78		10.8	10.8	10.7	10.5	10.2	9.8	9.2	8.3

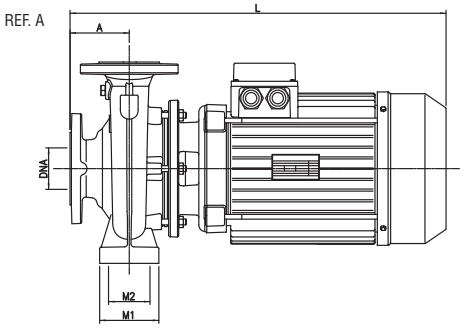
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

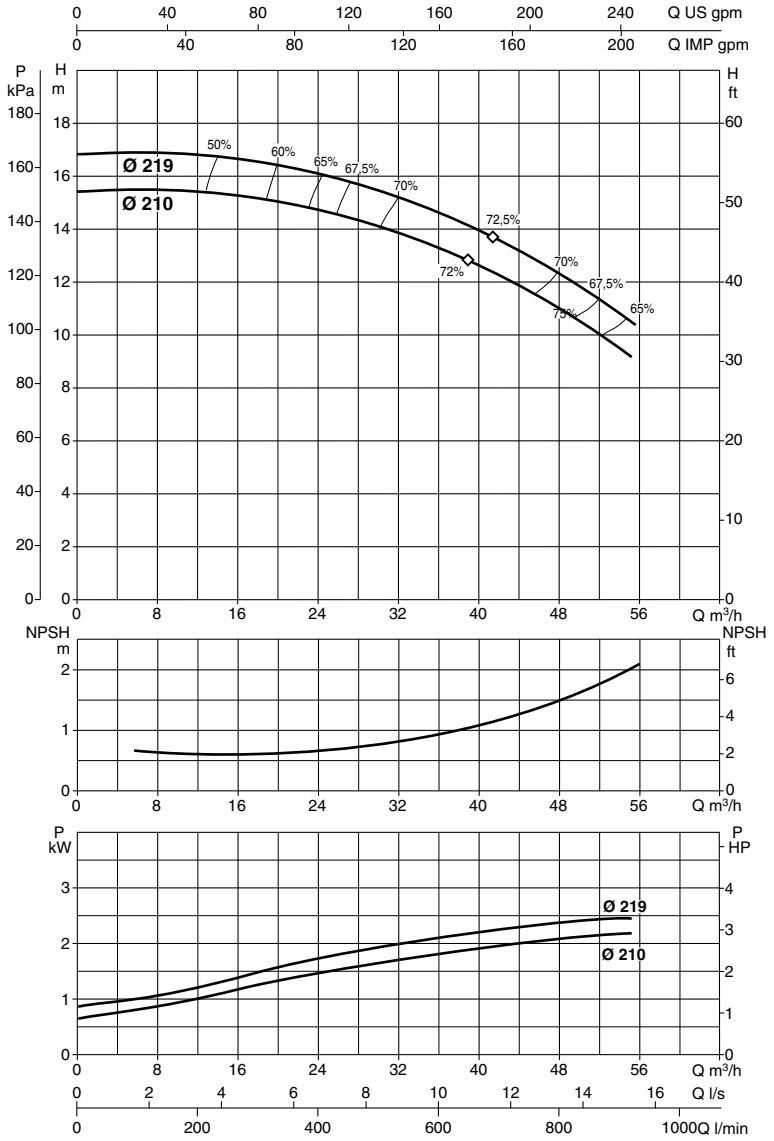
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 50-200

≅ 1450 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 50-200/210/2,2/4	A	65	50	100	50	–	302	160	200	483	100	70	265	212	M12	–	–	28	680	430	575	0,168	62,8
NKM 50-200/219/3/4	A	65	50	100	50	–	302	160	200	529	100	70	265	212	M12	–	–	28	680	430	575	0,168	68,5

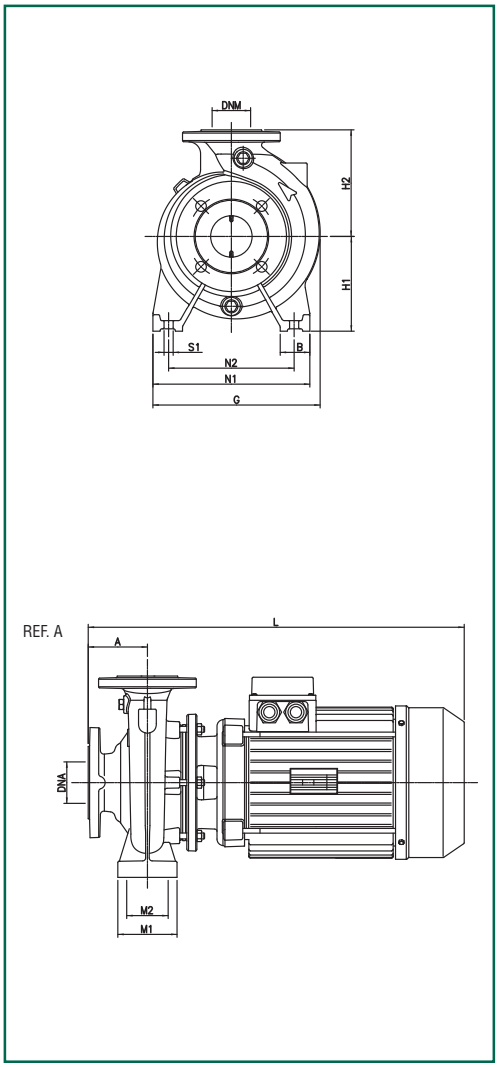
MODEL	ELECTRICAL DATA								HYDRAULIC DATA										
	Voltage	P1 MAX kW	P2 Nominal kW	HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	12	18	24	30	36	42	48	54
										l/min	0	200	300	400	500	600	700	800	900
NKM 50-200/210/2,2/4	230/400 V	2,7	2,2	3	9,4-5,4	47-27	1392	72	0,78	H (m)	15.3	15.3	15.2	14.8	14	13.3	12.1	10.8	9.4
NKM 50-200/219/3/4	400 V	3,2	3	4	7,1	37,6	1415	72	0,79		16.8	16.8	16.5	16.1	15.5	14.6	13.6	12.4	10.9

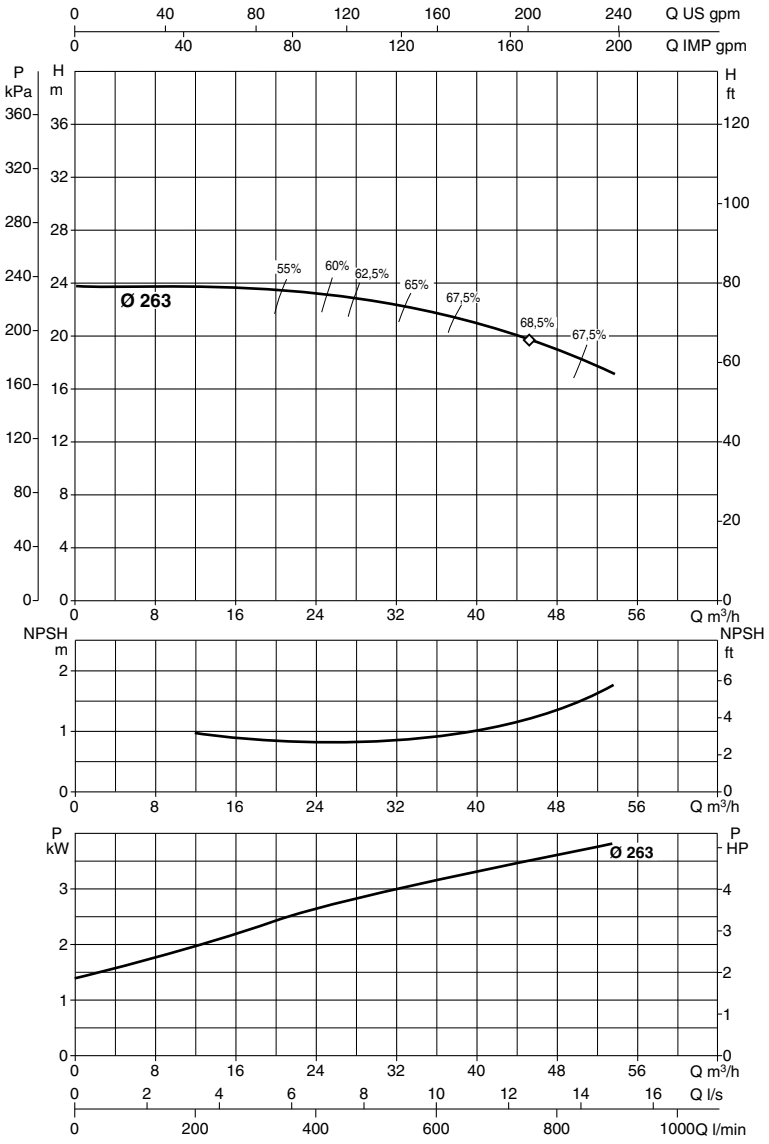
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM 50-250

≅ 1450 1/min





MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKM 50-250/263/4/4	A	65	50	100	65	–	350	180	225	529	125	95	320	250	M12	–	–	28	680	430	575	0,168	78,6

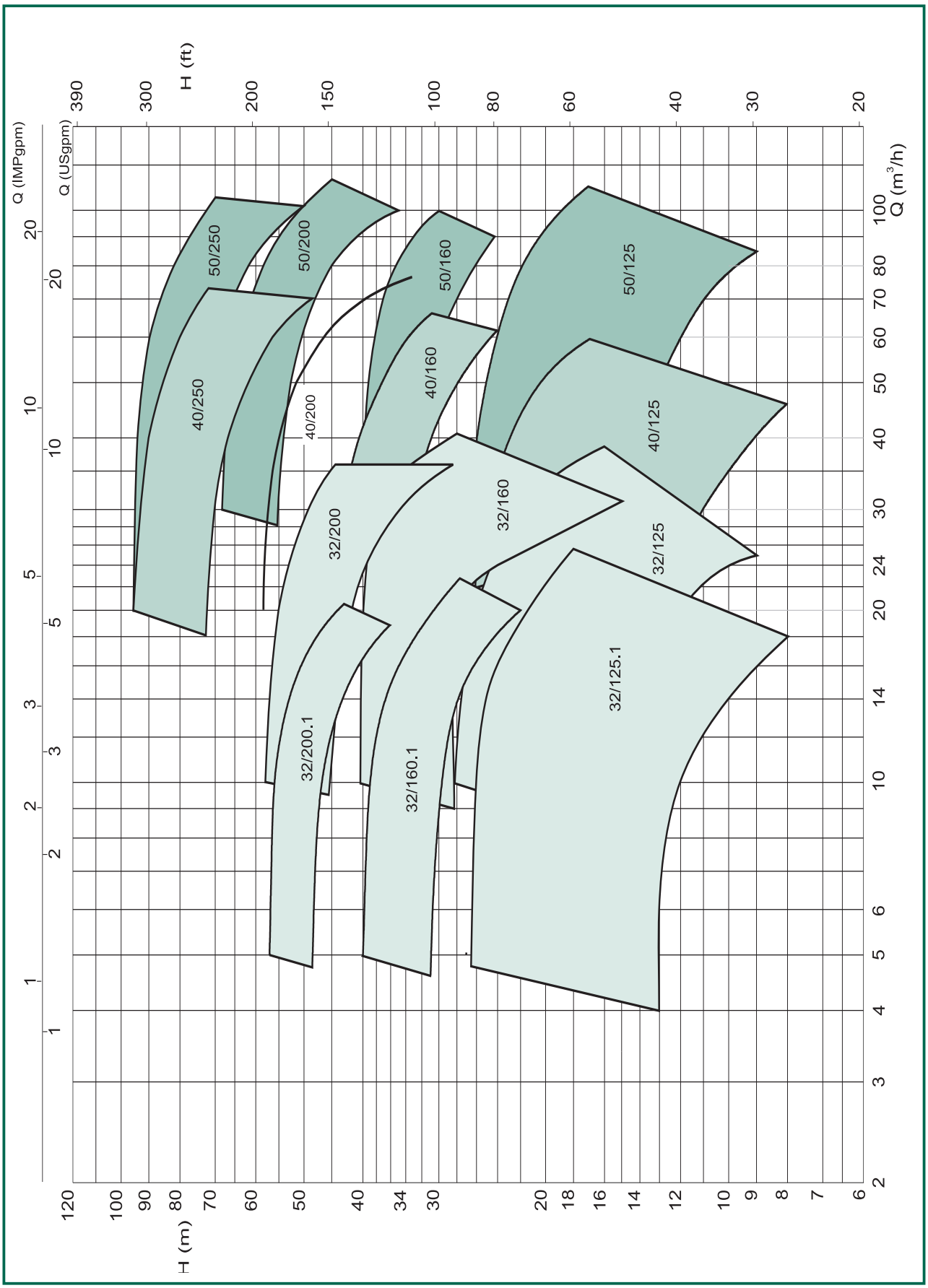
MODEL	ELECTRICAL DATA									HYDRAULIC DATA										
	Voltage	P1 MAX kW	P2 Nominal kW	HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	12	18	24	30	36	42	48	54
										l/min	0	200	300	400	500	600	700	800	900
NKM 50-250/263/4/4	400 V	4,5	4	5,5	8,8	52,8	1415	68,3	0,8	H	23.8	24	23.8	23.4	22.7	21.6	20.4	19	17.1

PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

≅ 2900 1/min



DAB PUMPS reserve the right to make modifications without prior notice

PERFORMANCE RANGE

NUMERICAL SELECTION TABLE
≅ 2900 1/min

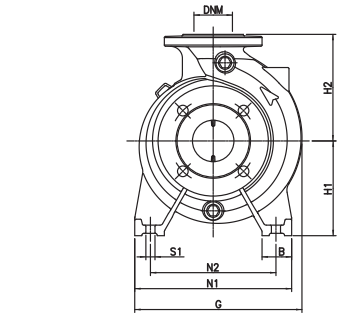
MODEL	P2 Nominal kW	P2 Nominal HP	Q m³/h	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	102	114
			l/min	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1700	1900
NKP 32-125.1/102/0.75/2	0.75	1		13	12.5	11	8														
NKP 32-125.1/115/1.1/2	1.1	1.5		17.2	17	15	12.5														
NKP 32-125.1/125/1.5/2	1.5	2		21	20.8	19	16.8														
NKP 32-125.1/140/2.2/2	2.2	3		27	26.9	25.9	23	19.5													
NKP 32-125.1/140/2.2/2 M	2.2	3		27	26.9	25.9	23	19.5													
NKP 32-125/110/1.1/2	1.1	1.5		15.8	15.4	14.5	12.9	9.9													
NKP 32-125/120/1.5/2	1.5	2		19.4	19	18.2	16.8	14.5													
NKP 32-125/130/2.2/2	2.2	3		23.7	23.4	23	21.8	19.8	16.8												
NKP 32-125/130/2.2/2 M	2.2	3		23.7	23.4	23	21.8	19.8	16.8												
NKP 32-125/142/3/2	3	4		28.6	28.2	27.6	26.5	24.6	21.8	17.9											
NKP 32-125/142/3/2 M	3	4		28.6	28.2	27.6	26.5	24.6	21.8	17.9											
NKP 32-160.1/155/2.2/2	2.2	3		29.2	29	26,5	20,5														
NKP 32-160.1/155/2.2/2 M	2.2	3		29.2	29	26,5	20,5														
NKP 32-160.1/166/3/2	3	4		35.3	35	33	28														
NKP 32-160.1/166/3/2 M	3	4		35.3	35	33	28														
NKP 32-160/151/3/2	3	4		30.5	30	29	27	24	19.5												
NKP 32-160/151/3/2 M	3	4		30.5	30	29	27	24	19.5												
NKP 32-160/163/4/2	4	5.5		36	36	35	33.5	30.5	27	22											
NKP 32-160/163/4/2 M	4	5.5		36	36	35	33.5	30.5	27	22											
NKP 32-160/177/5,5/2	5.5	7.5		43.5	43.2	42.6	41.5	39	36	31.5	25.5										
NKP 32-200.1/188/4/2	4	5.5		45.3	44.4	40.8	34.4	26.8													
NKP 32-200.1/188/4/2 M	4	5.5		45.3	44.4	40.8	34.4	26.8													
NKP 32-200.1 205/5,5/2	5.5	7.5		56.6	55.7	52	45.8	36.2													
NKP 32-200/190/5.5/2	5.5	7.5		47	46.5	45	43	40	35	29											
NKP 32-200/210/7.5/2	7.5	10		58.5	58	57	56	53	49	44											
NKP 40-125/107/1.5/2	1.5	2	H (m)	14.7	14.5	14.3	13.8	13	11.8	10.5	8.6	7									
NKP 40-125/120/2.2/2	2.2	3		19	18.7	18.4	17.8	17	15.9	14.6	13	11									
NKP 40-125/120/2.2/2 M	2.2	3		19	18.7	18.4	17.8	17	15.9	14.6	13	11									
NKP 40-125/130/3/2	3	4		22.8	22.5	22.3	22	21.2	20.2	19	17.4	15.5	13.5								
NKP 40-125/130/3/2 M	3	4		22.8	22.5	22.3	22	21.2	20.2	19	17.4	15.5	13.5								
NKP 40-125/139/4/2	4	5.5		26.4	26.2	26	25.6	25	24	23	21.5	19.5	17.5	15							
NKP 40-125/139/4/2 M	4	5.5		26.4	26.2	26	25.6	25	24	23	21.5	19.5	17.5	15							
NKP 40-160/158/5,5/2	5.5	7.5		34			34	33.5	32.5	31	29.5	27	24								
NKP 40-160/172/7,5/2	7.5	10		41			41	41	40	39	37.5	35.5	33	30	26.5						
NKP 40-200/210/11/2	11	15		57	57.5	58	58	57.5	57	55	53	50	47	43.5	39						
NKP 40-250/230/15/2	15	20		72.5			72.5	72	70	68	66	62.5	60	56	51.5						
NKP 40-250/245/18.5/2	18.5	25		83			83	82.5	81.5	80	77	74	71.5	67.5	63.5	58.5					
NKP 40-250/260/22/2	22	30		96			95	94.5	93.5	92	90	87.5	84	81	76.5	71.5					
NKP 50-125/115/3/2	3	4		17				16.5	16	15.5	15	14.5	13.7	13	12	11	10	9			
NKP 50-125/115/3/2 M	3	4		17				16.5	16	15.5	15	14.5	13.7	13	12	11	10	9			
NKP 50-125/125/4/2	4	5.5		20.5				20	19.5	19.1	18.5	18	17.5	16.5	15.8	14.8	14	12.5	11.5		
NKP 50-125/125/4/2 M	4	5.5		20.5				20	19.5	19.1	18.5	18	17.5	16.5	15.8	14.8	14	12.5	11.5		
NKP 50-125/135/5,5/2	5.5	7.5		24				23.6	23.5	23.2	22.8	22.2	21.5	21	20	19.1	18.5	17.5	16.5	13.4	
NKP 50-125/144/7,5/2	7.5	10		28				27.8	27.5	27.3	27	26.5	25.8	25.3	24.5	23.5	23	21.5	20.5	18	15.5
NKP 50-160/153/7.5/2	7.5	10		32				32.5	32.4	32	31.5	31	30.5	29.5	28.5	27.5	26	25	23.5		
NKP 50-160/169/11/2	11	15		39.5					40	39.8	39.5	39	38.5	38	37.2	36.5	35	34	32.5		
NKP 50-200/200/15/2	15	20		55					56	55.5	54	53.5	52	51	49	47.5	45.5	43	41		
NKP 50-200/210/18,5/2	18.5	25		61.5					62	62	61.5	60.5	59	58	56.5	55	53	51	48.5	43	
NKP 50-200/219/22/2	22	30		67.5					68	67.5	67	66	65.5	64	62.5	61	59.5	57	55	50	
NKP 50-250/230/22/2	22	30		73.5					75	74.5	73.8	73.5	71	68.5	67	65	62.5	60	57	49	
NKP 50-250/257/30/2	30	40		92.5					94	94	93.6	93.5	91	89	87.5	86	83	81	78	72	

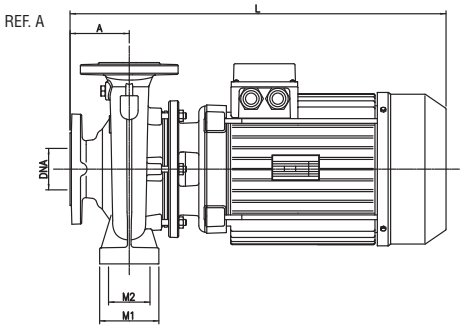
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

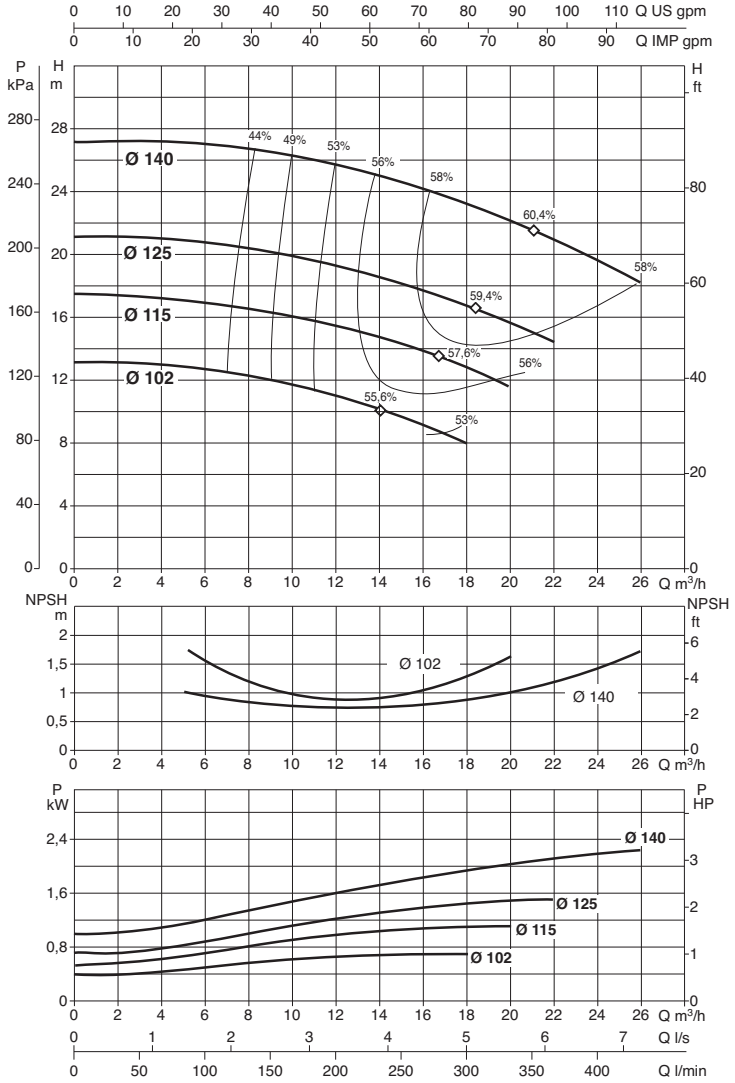
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 32-125.1

≅ 2900 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKP 32-125.1/102/0.75/2	A	50	32	80	50	–	234	112	140	416,5	100	70	190	140	M12	–	–	28	680	430	575	0,168	35,7
NKP 32-125.1/115/1.1/2	A	50	32	80	50	–	234	112	140	416,5	100	70	190	140	M12	–	–	28	680	430	575	0,168	36,2
NKP 32-125.1/125/1.5/2	A	50	32	80	50	–	234	112	140	440	100	70	190	140	M12	–	–	28	680	430	575	0,168	39,9
NKP 32-125.1/140/2.2/2 M	A	50	32	80	50	–	234	112	140	440	100	70	190	140	M12	–	–	28	680	430	575	0,168	46,4
NKP 32-125.1/140/2.2/2	A	50	32	80	50	–	234	112	140	440	100	70	190	140	M12	–	–	28	680	430	575	0,168	41,0

MODEL	ELECTRICAL DATA								HYDRAULIC DATA										
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36	42	48
										l/min	0	100	200	300	400	500	600	700	800
NKP 32-125.1/102/0.75/2	230/400 V	1	0,75	1	3,5-2,0	15,4-8,8	2820	56	0,79	H (m)	13	12.5	11	8	–	–	–	–	–
NKP 32-125.1/115/1.1/2	230/400 V	1,5	1,1	1,5	5,2-3,0	22,9-13,2	2775	57,8	0,79		17.2	17	15	12.5	–	–	–	–	–
NKP 32-125.1/125/1.5/2	230/400 V	2,1	1,5	2	6,2-3,6	35,3-20,5	2800	59,5	0,83		21	20.8	19	16.8	–	–	–	–	–
NKP 32-125.1/140/2.2/2 M	220/240 V	2,85	2,2	3	13,7	49	2780	60,3	0,98		27	26.9	25.9	23	19.5	–	–	–	–
NKP 32-125.1/140/2.2/2	230/400 V	2,7	2,2	3	9,2-5,3	54,2-31,2	2780	60,3	0,83		27	26.9	25.9	23	19.5	–	–	–	–

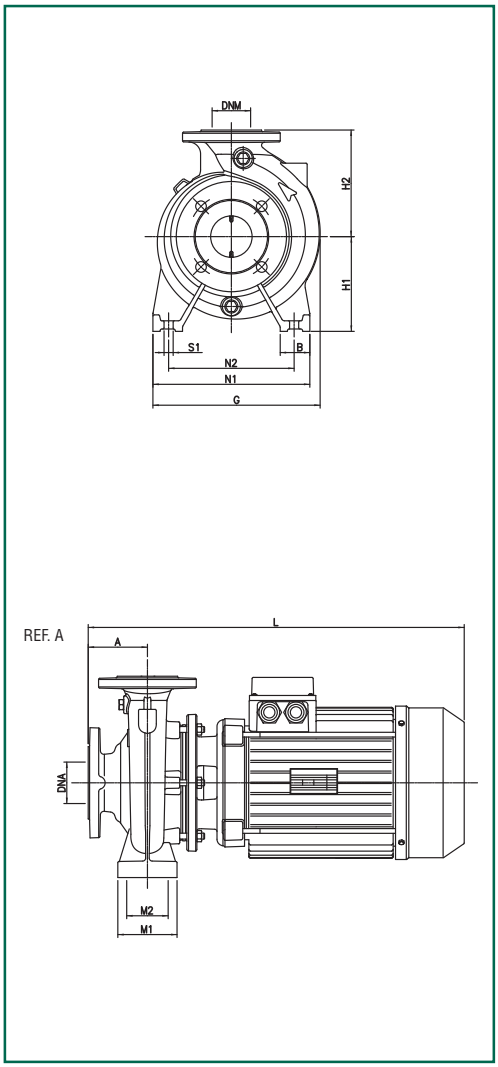
DAB PUMPS reserve the right to make modifications without prior notice

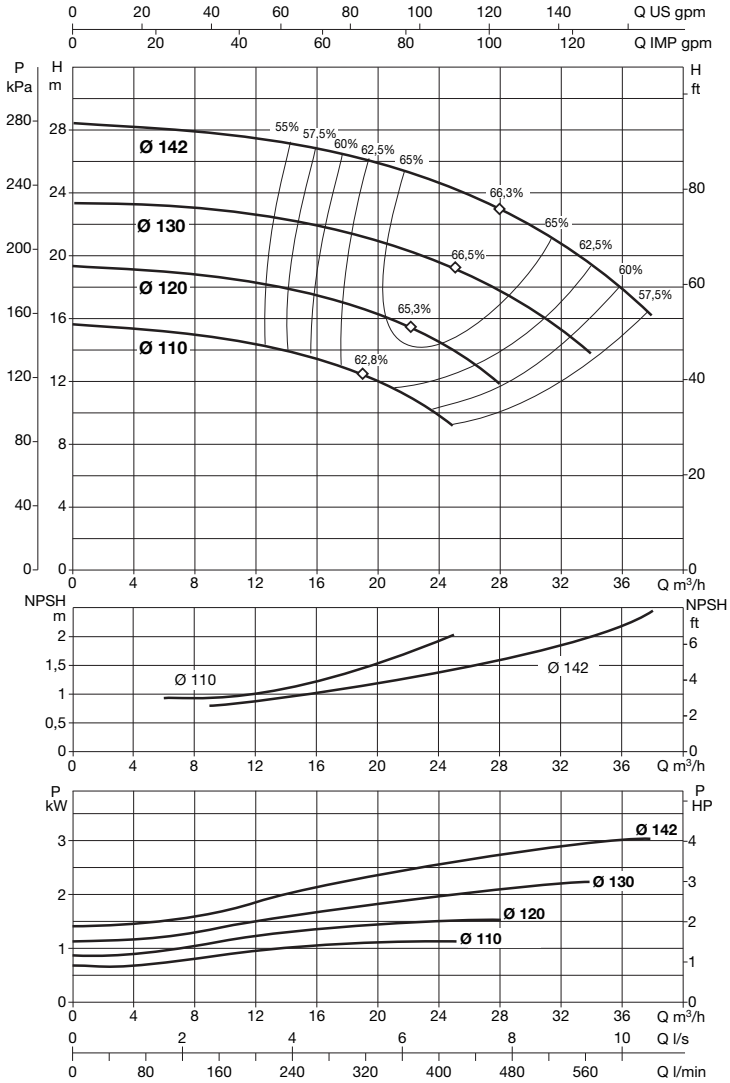
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 32-125

≅ 2900 1/min





MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKP 32-125/110/1.1/2	A	50	32	80	50	–	234	112	140	416,5	100	70	190	140	M12	–	28	680	430	575	0,168	36,2
NKP 32-125/120/1.5/2	A	50	32	80	50	–	234	112	140	440	100	70	190	140	M12	–	28	680	430	575	0,168	39,9
NKP 32-125/130/2.2/2 M	A	50	32	80	50	–	234	112	140	440	100	70	190	140	M12	–	28	680	430	575	0,168	46,4
NKP 32-125/130/2.2/2	A	50	32	80	50	–	234	112	140	440	100	70	190	140	M12	–	28	680	430	575	0,168	41,0
NKP 32-125/142/3/2 M	A	50	32	80	50	–	234	112	140	463,5	100	70	190	140	M12	–	28	680	430	575	0,168	51,8
NKP 32-125/142/3/2	A	50	32	80	50	–	234	112	140	463,5	100	70	190	140	M12	–	28	680	430	575	0,168	45,6

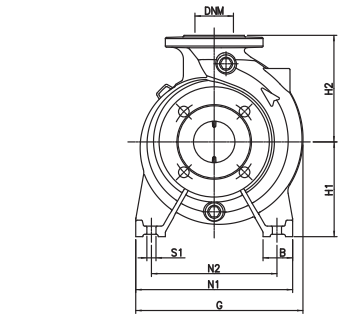
MODEL	ELECTRICAL DATA									HYDRAULIC DATA									
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36	42	48
										l/min	0	100	200	300	400	500	600	700	800
NKP 32-125/110/1.1/2	230/400 V	1,5	1,1	1,5	5,2-3,0	22,9-13,2	2775	63	0,79		15.8	15.4	14.5	12.9	9.9	–	–	–	–
NKP 32-125/120/1.5/2	230/400 V	2,1	1,5	2	6,2-3,6	35,3-20,5	2800	65,5	0,83		19.4	19	18.2	16.8	14.5	–	–	–	–
NKP 32-125/130/2.2/2 M	220/240 V	3	2,2	3	13,7	49	2780	66	0,98		23.7	23.4	23	21.8	19.8	16.8	–	–	–
NKP 32-125/130/2.2/2	230/400 V	3	2,2	3	9,2-5,3	54,2-31,2	2750	66,5	0,83	H (m)	23.7	23.4	23	21.8	19.8	16.8	–	–	–
NKP 32-125/142/3/2 M	220/240 V	4	3	4	18,0	81	2900	66,5	0,98		28.6	28.2	27.6	26.5	24.6	21.8	17.9	–	–
NKP 32-125/142/3/2	400 V	4	3	4	6,7	41,5	2840	66,5	0,84		28.6	28.2	27.6	26.5	24.6	21.8	17.9	–	–

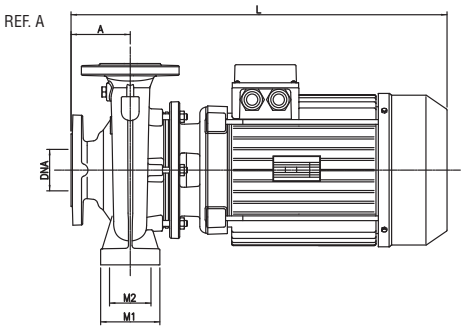
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

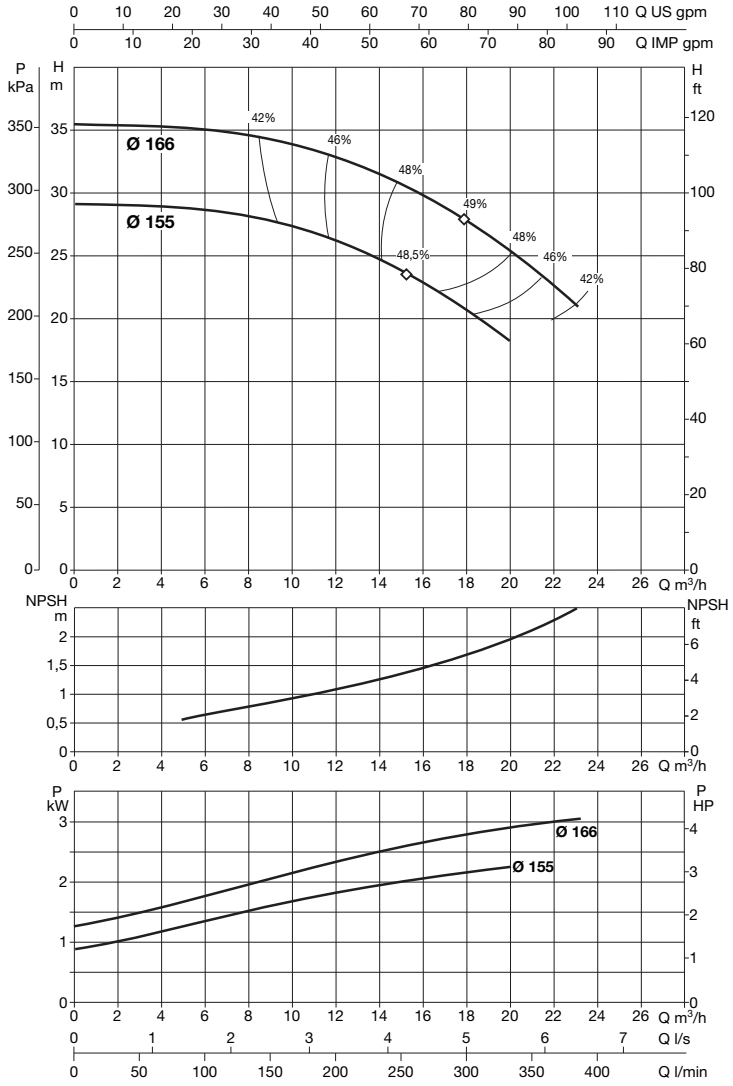
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 32-160.1

≅ 2900 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKP 32-160.1 155/2.2/2 M	A	50	32	80	50	–	245	132	160	440	100	70	240	190	M12	–	–	28	680	430	575	0,168	48,1
NKP 32-160.1 155/2.2/2	A	50	32	80	50	–	245	132	160	440	100	70	240	190	M12	–	–	28	680	430	575	0,168	42,7
NKP 32-160.1 166/3/2 M	A	50	32	80	50	–	245	132	160	463,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	53,5
NKP 32-160.1 166/3/2	A	50	32	80	50	–	245	132	160	463,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	47,3

MODEL	ELECTRICAL DATA									HYDRAULIC DATA										
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36	42	48
										l/min	0	100	200	300	400	500	600	700	800
NKP 32-160.1 155/2.2/2 M	220/240 V	3	2,2	3	13,7	49	2780	48,4	0,98	H (m)	29.2	29	26.5	20.5	–	–	–	–	–
NKP 32-160.1 155/2.2/2	230/400 V	2,7	2,2	3	9,2-5,3	54,2-31,2	2780	48	0,83		29.2	29	26.5	20.5	–	–	–	–	–
NKP 32-160.1 166/3/2 M	220/240 V	4	3	4	18,0	81	2900	49	0,98		35.3	35	33	28	–	–	–	–	–
NKP 32-160.1 166/3/2	400 V	4,1	3	4	6,7	41,5	2839	49	0,84		35.3	35	33	28	–	–	–	–	–

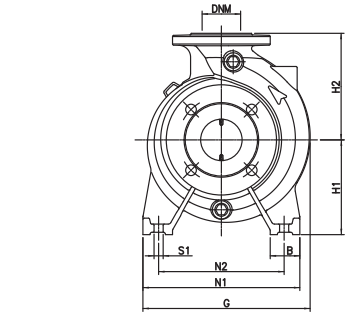
DAB PUMPS reserve the right to make modifications without prior notice

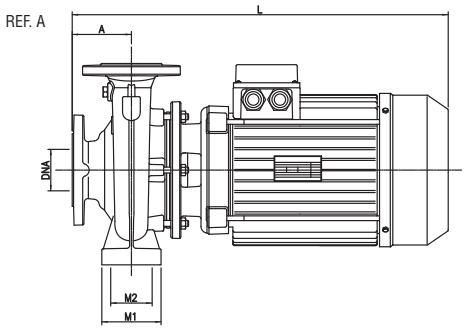
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

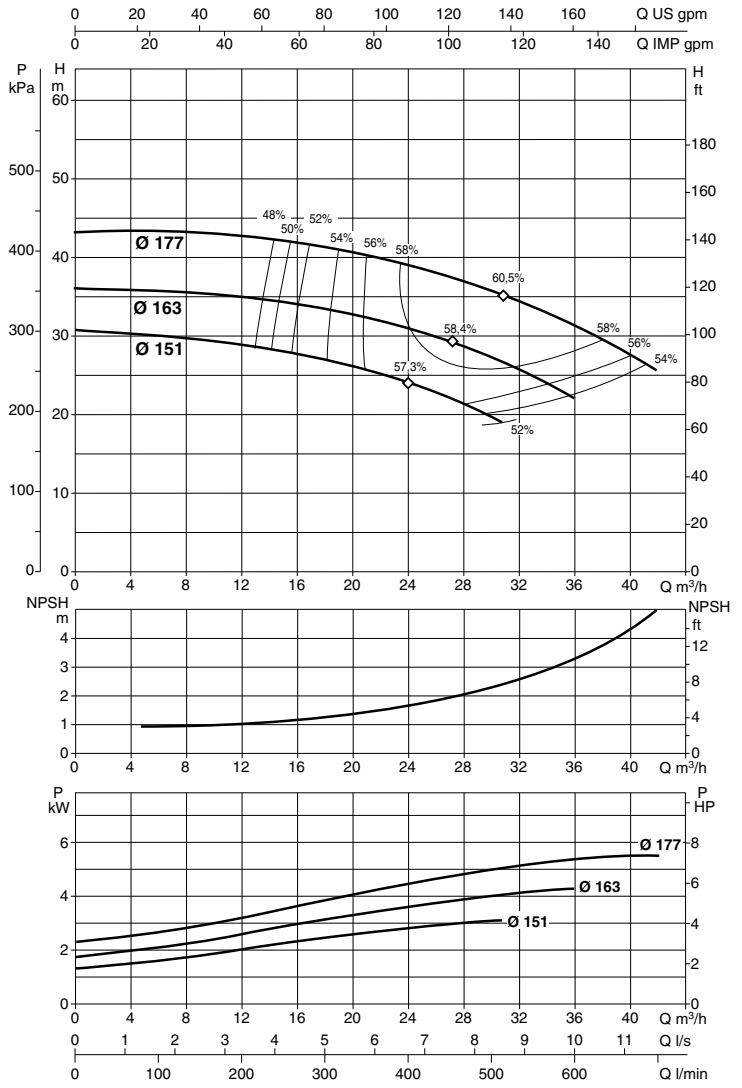
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 32-160

≅ 2900 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol. m³	Weight Kg
NKP 32-160/151/3/2 M	A	50	32	80	50	–	245	132	160	463,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	54,2
NKP 32-160/151/3/2	A	50	32	80	50	–	245	132	160	463,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	48,0
NKP 32-160/163/4/2 M	A	50	32	80	50	–	245	132	160	509,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	56,0
NKP 32-160/163/4/2	A	50	32	80	50	–	245	132	160	509,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	55,1
NKP 32-160/177/5,5/2	A	50	32	80	50	–	245	132	160	529,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	61,9

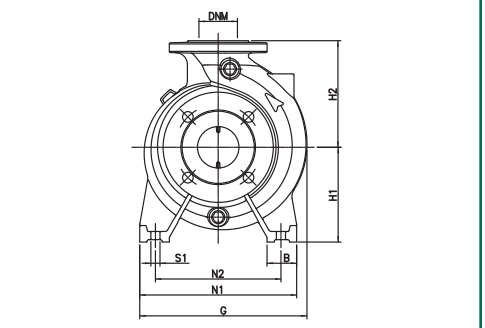
MODEL	ELECTRICAL DATA									HYDRAULIC DATA									
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36	42	48
										l/min	0	100	200	300	400	500	600	700	800
NKP 32-160/151/3/2 M	220/240 V	4	3	4	18	81	2900	57,8	0,98	H (m)	30.5	30	29	27	24	19.5	–	–	–
NKP 32-160/151/3/2	400 V	4,1	3	4	6,7	41,5	2839	57,8	0,84		30.5	30	29	27	24	19.5	–	–	–
NKP 32-160/163/4/2 M	220/240 V	5,2	4	5,5	24	108	2880	58,4	0,98		36	36	35	33.5	30.5	27	22	–	–
NKP 32-160/163/4/2	400 V	5,2	4	5,5	8,7	60,9	2830	58,3	0,85		36	36	35	33.5	30.5	27	22	–	–
NKP 32-160/177/5,5/2	400 V	6,4	5,5	7,5	11,6	81,2	2870	60,5	0,86		43.5	43.2	42.6	41.5	39	36	31.5	25.5	–

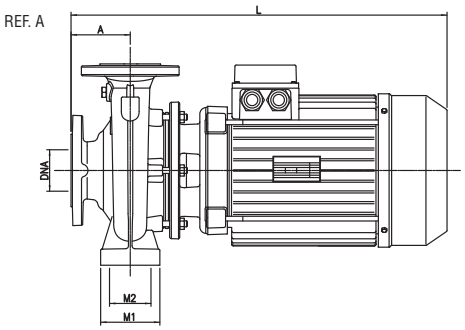
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

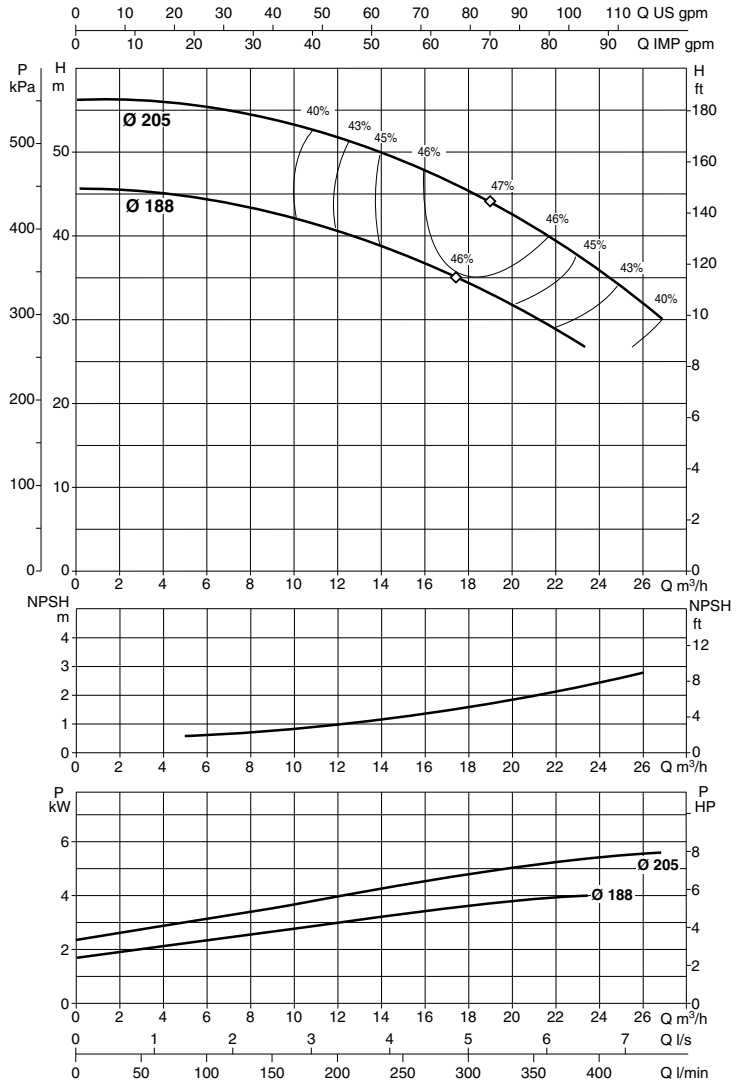
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 32-200.1

≅ 2900 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKP 32-200.1 188/4/2 M	A	50	32	80	50	–	278	160	180	509	100	70	240	190	M12	–	–	28	680	430	575	0,168	67,7
NKP 32-200.1 188/4/2	A	50	32	80	50	–	278	160	180	509	100	70	240	190	M12	–	–	28	680	430	575	0,168	66,8
NKP 32-200.1 205/5,5/2	A	50	32	80	50	–	278	160	180	529	100	70	240	190	M12	–	–	28	680	430	575	0,168	73,6

MODEL	ELECTRICAL DATA									HYDRAULIC DATA										
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36	42	48
										Q l/min	0	100	200	300	400	500	600	700	800
NKP 32-200.1 188/4/2 M	220/240 V	5,1	4	5,5	24	108	2885	46,2	0,98	H (m)	45.3	44.4	40.8	34.4	26.8	–	–	–	–
NKP 32-200.1 188/4/2	400 V	5,2	4	5,5	8,7	60,9	2830	46	0,85		45.3	44.4	40.8	34.4	26.8	–	–	–	–
NKP 32-200.1 205/5,5/2	400 V	6,8	5,5	7,5	11,67	81,2	2867	47,4	0,86		56.6	55.7	52	45.8	36.2	–	–	–	–

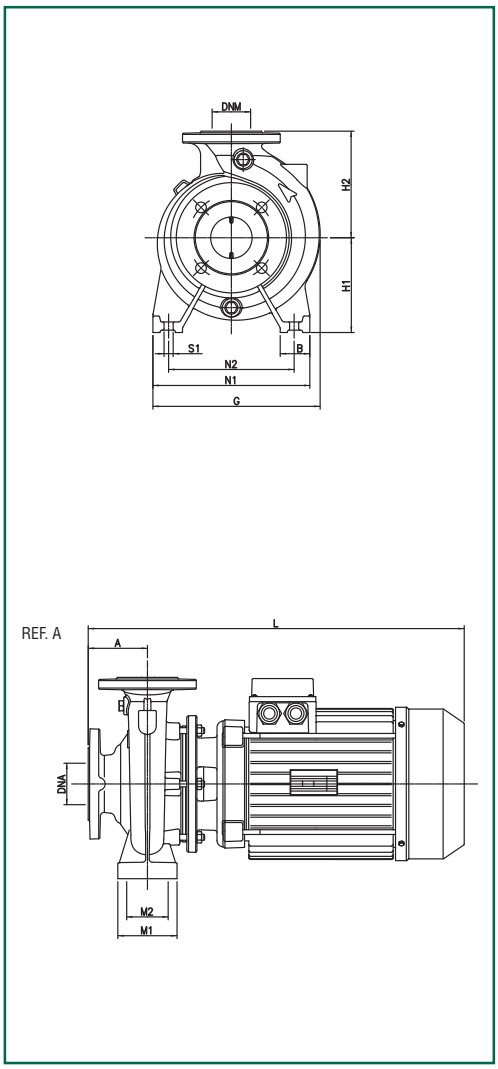
DAB PUMPS reserve the right to make modifications without prior notice

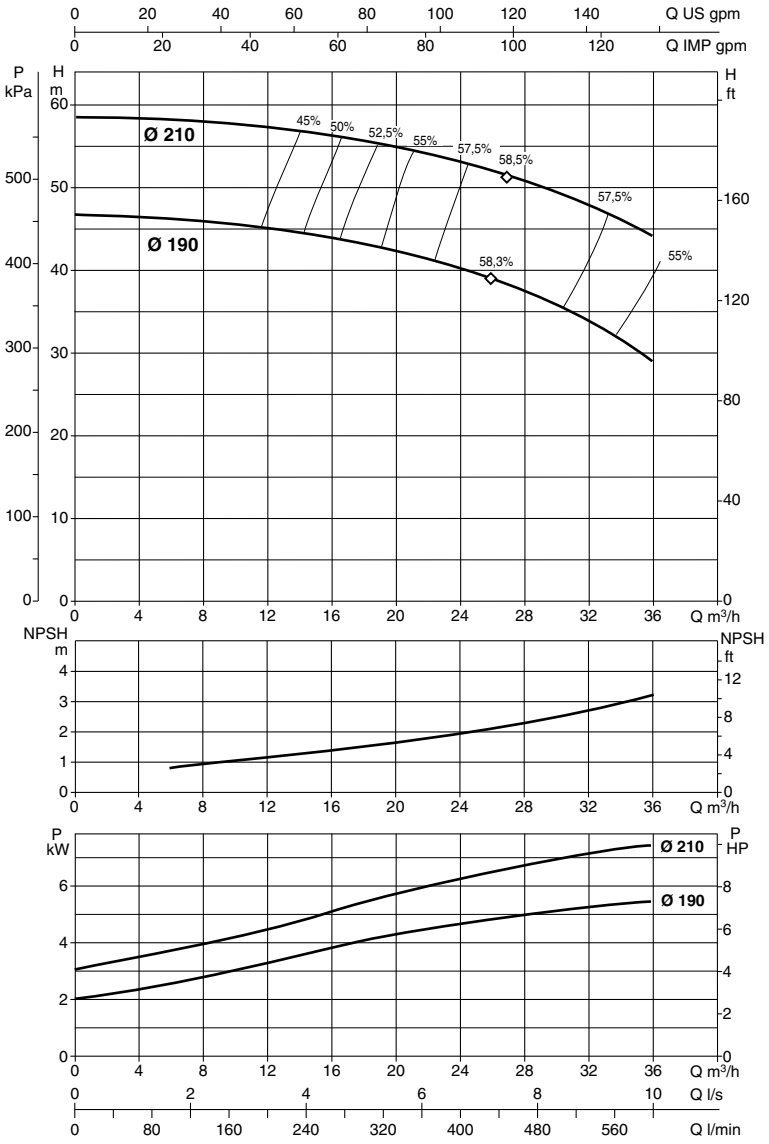
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 32-200

≅ 2900 1/min





MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKP 32-200/190/5.5/2	A	50	32	80	50	–	278	160	180	529	100	70	240	190	M12	–	–	28	680	430	575	0,168	72,7
NKP 32-200/210/7.5/2	A	50	32	80	50	–	278	160	180	573,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	86,7

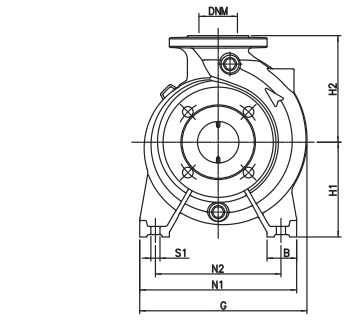
MODEL	ELECTRICAL DATA									HYDRAULIC DATA										
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36	42	48
										l/min	0	100	200	300	400	500	600	700	800
NKP 32-200/190/5.5/2	400 V	6,6	5,5	7,5	11,6	81,2	2840	58,2	0,86	H (m)	47	46.5	45	43	40	35	29	–	–
NKP 32-200/210/7.5/2	400 V	9,6	7,5	10	14	99	2907	58,2	0,9		58.5	58	57	56	53	49	44	–	–

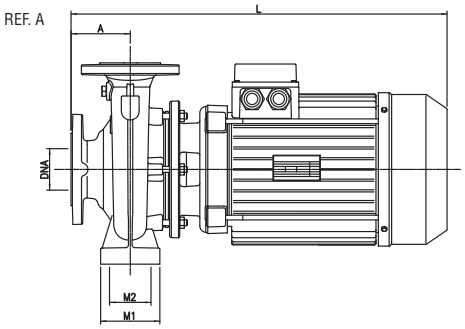
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

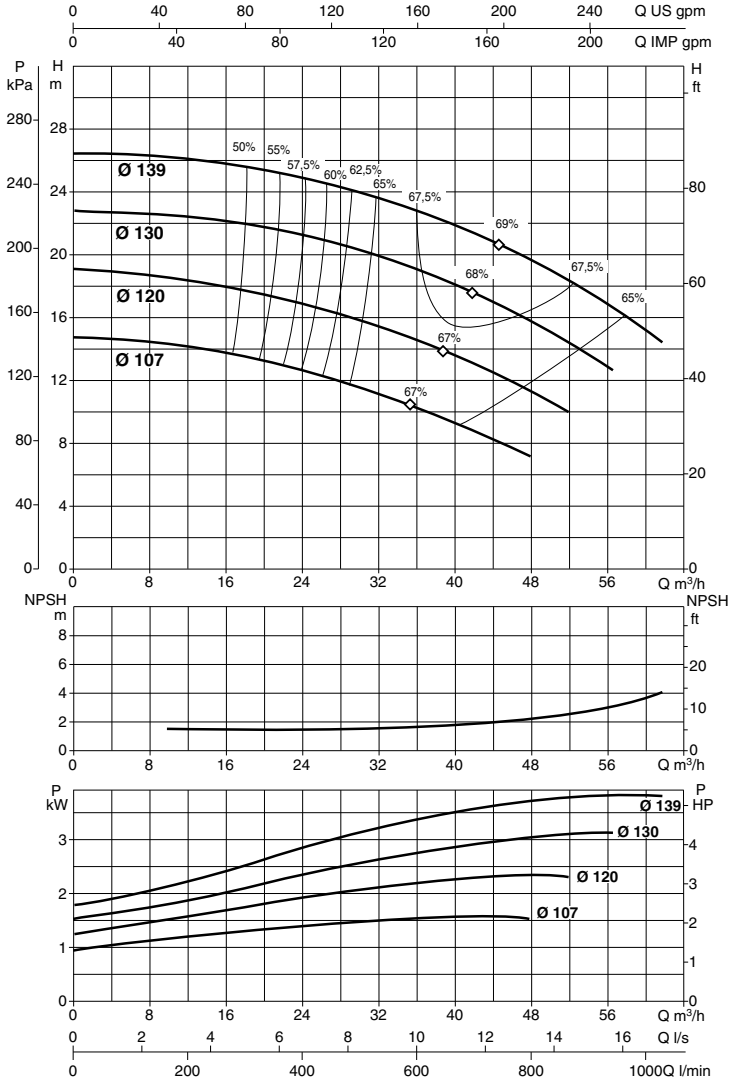
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 40-125

≅ 2900 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKP 40-125/107/1.5/2	A	65	40	80	50	–	235	112	140	440	100	70	210	160	M12	–	–	28	680	430	575	0,168	41,3
NKP 40-125/120/2.2/2 M	A	65	40	80	50	–	235	112	140	440	100	70	210	160	M12	–	–	28	680	430	575	0,168	47,8
NKP 40-125/120/2.2/2	A	65	40	80	50	–	235	112	140	440	100	70	210	160	M12	–	–	28	680	430	575	0,168	42,4
NKP 40-125/130/3/2 M	A	65	40	80	50	–	235	112	140	463,5	100	70	210	160	M12	–	–	28	680	430	575	0,168	53,2
NKP 40-125/130/3/2	A	65	40	80	50	–	235	112	140	463,5	100	70	210	160	M12	–	–	28	680	430	575	0,168	47,0
NKP 40-125/139/4/2 M	A	65	40	80	50	–	235	112	140	509,5	100	70	210	160	M12	–	–	28	680	430	575	0,168	55,0
NKP 40-125/139/4/2	A	65	40	80	50	–	235	112	140	509,5	100	70	210	160	M12	–	–	28	680	430	575	0,168	54,1

MODEL	ELECTRICAL DATA									HYDRAULIC DATA										
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	6	12	18	24	36	48	54	60
										l/min	0	100	200	300	400	600	800	900	1000
NKP 40-125/107/1.5/2	230/400 V	2,1	1,5	2	5,9-3,4	35,3-20,5	2800	67	0,83		14.7	14.5	14.3	13.8	13	10.5	7	–	–
NKP 40-125/120/2.2/2 M	220/240 V	3,3	2,2	3	13,7	49	2750	66,5	0,98		19	18.7	18.4	17.8	17	14.6	11	–	–
NKP 40-125/120/2.2/2	230/400 V	2,8	2,2	3	7,9-4,6	54,2-31,2	2776	66,5	0,83		19	18.7	18.4	17.8	17	14.6	11	–	–
NKP 40-125/130/3/2 M	220/240 V	4,1	3	4	18	81	2900	68	0,98	H (m)	22.8	22.5	22.3	22	21.2	19	15.5	13.5	–
NKP 40-125/130/3/2	400 V	4	3	4	6,8	41,5	2840	68	0,84		22.8	22.5	22.3	22	21.2	19	15.5	13.5	–
NKP 40-125/139/4/2 M	220/240 V	5	4	5,5	24	108	2890	69	0,98		26.4	26.2	26	25.6	25	23	19.5	17.5	15
NKP 40-125/139/4/2	400 V	5,0	4	5,5	8,5	60,9	2936	69	0,85		26.4	26.2	26	25.6	25	23	19.5	17.5	15

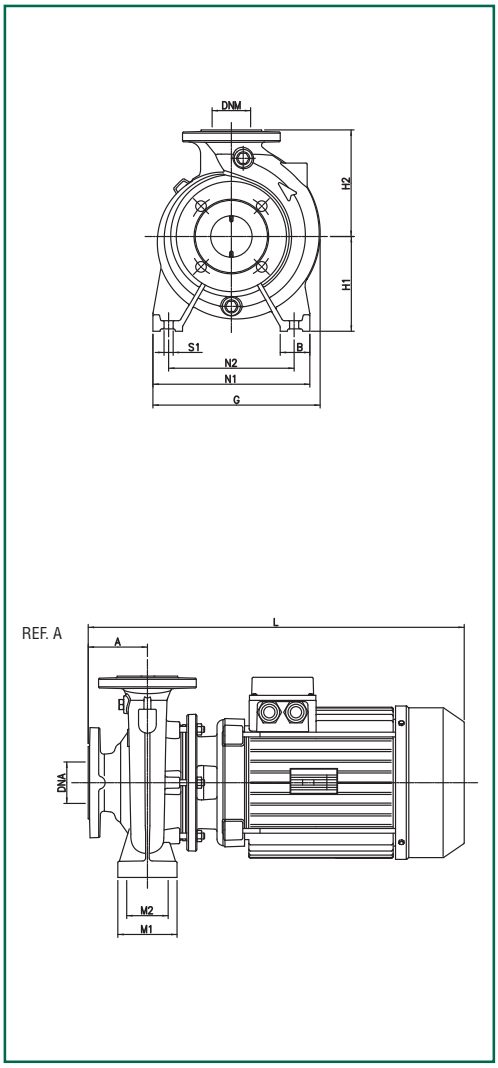
DAB PUMPS reserve the right to make modifications without prior notice

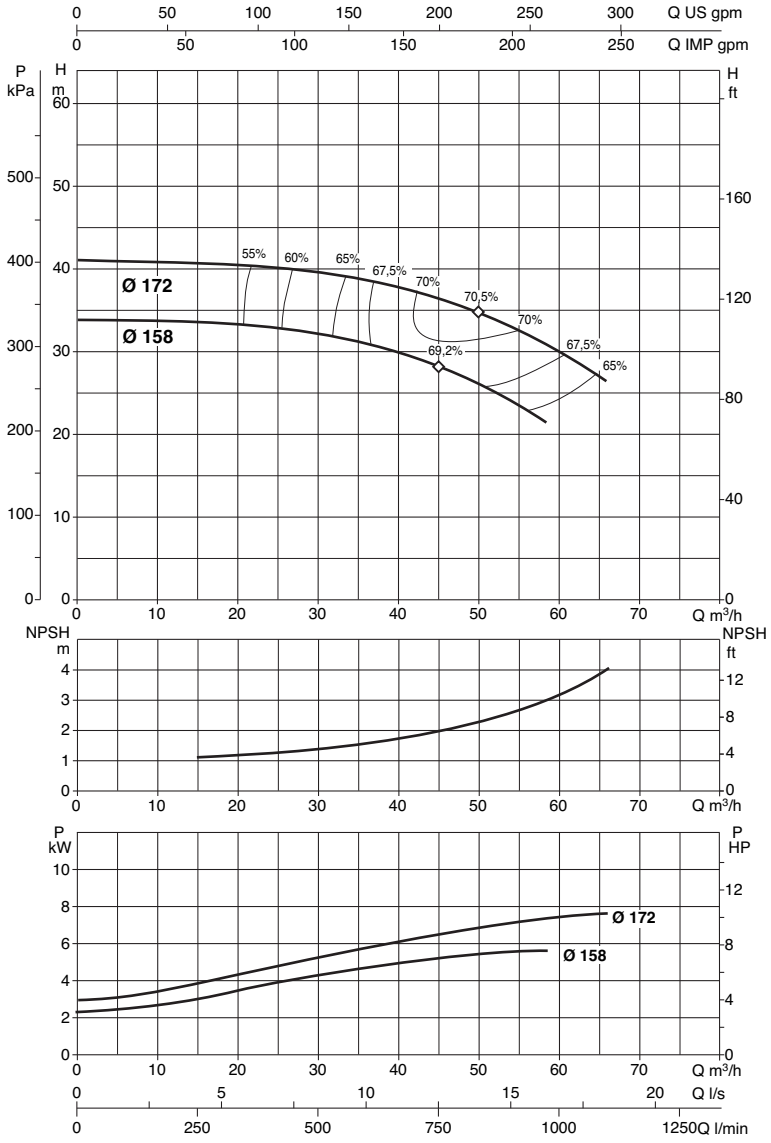
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 40-160

≅ 2900 1/min





MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKP 40-160/158/5,5/2	A	65	40	80	50	–	253	132	160	529,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	63,1
NKP 40-160/172/7,5/2	A	65	40	80	50	–	253	132	160	574	100	70	240	190	M12	–	–	28	680	430	575	0,168	77,1

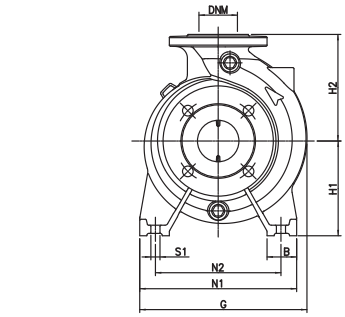
MODEL	ELECTRICAL DATA									HYDRAULIC DATA										
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	18	24	30	36	42	48	54	60
										l/min	0	300	400	500	600	700	800	900	1100
NKP 40-160/158/5,5/2	400 V	6,7	5,5	7,5	11,6	81,2	2870	69,8	0,86	H (m)	34	34	33.5	32.5	31	29.5	27	24	–
NKP 40-160/172/7,5/2	400 V	9,7	7,5	10	14	99	2907	70,5	0,9		41	41	41	40	39	37.5	35.5	33	26.5

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 40-200

≅ 2900 1/min



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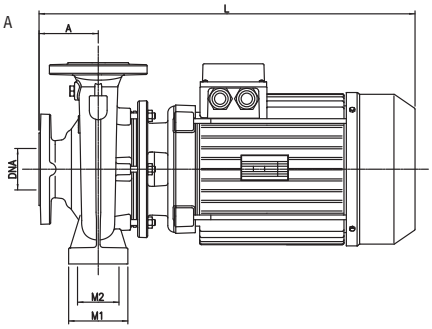

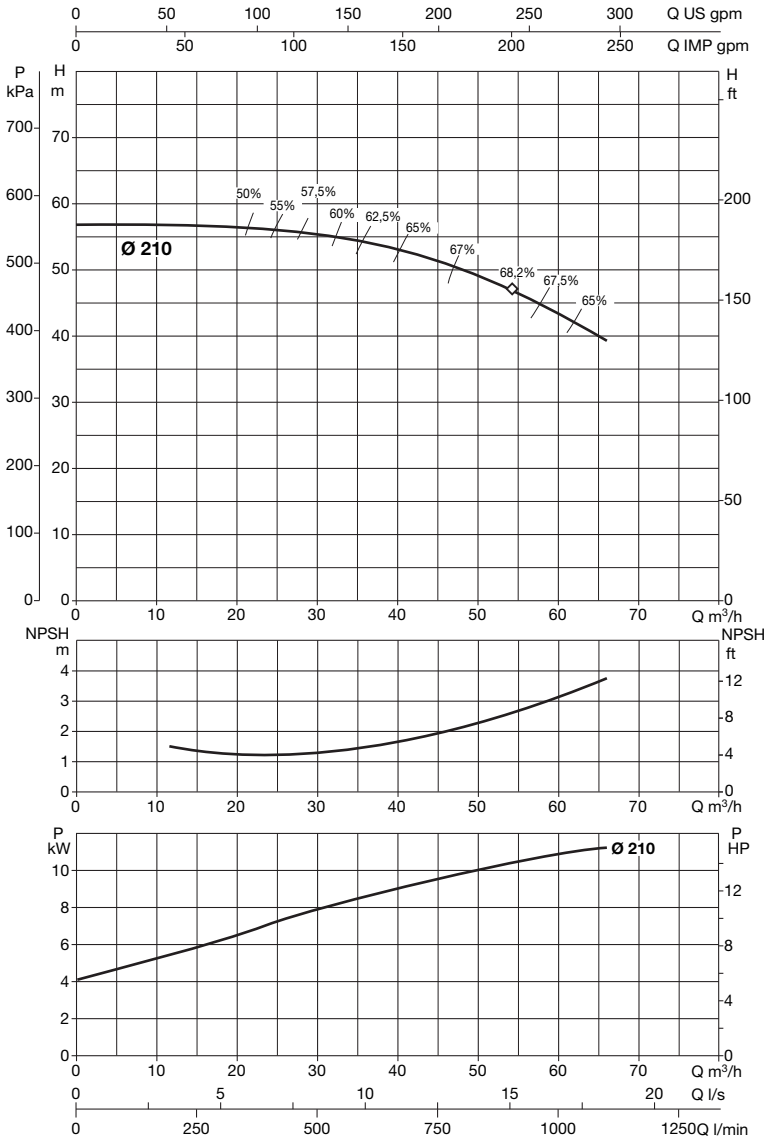

MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKP 40-200/210/11/2	A	65	40	100	50	–	296	160	180	631,5	100	70	265	212	M12	–	–	28	830	430	515	0,183	98,6

MODEL	ELECTRICAL DATA								HYDRAULIC DATA									
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	12	24	30	36	42	48	60	66
										l/min	0	200	400	500	600	700	800	1100	1100
NKP 40-200/210/11/2	400 V	13,5	11	15	22,5	157,5	2914	68	0,87	H (m)	57	58	57.5	57	55	53	50	43.5	39

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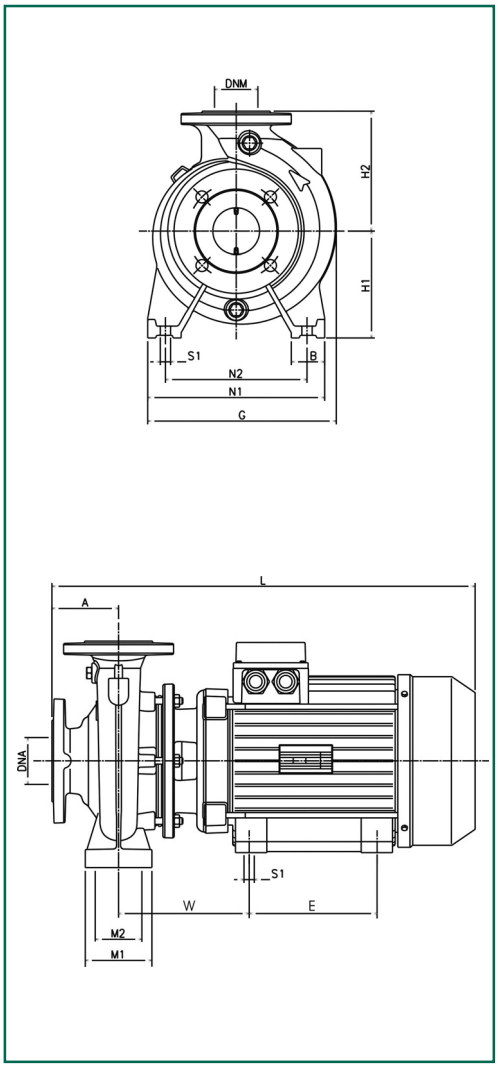
DAB PUMP PERFORMANCE

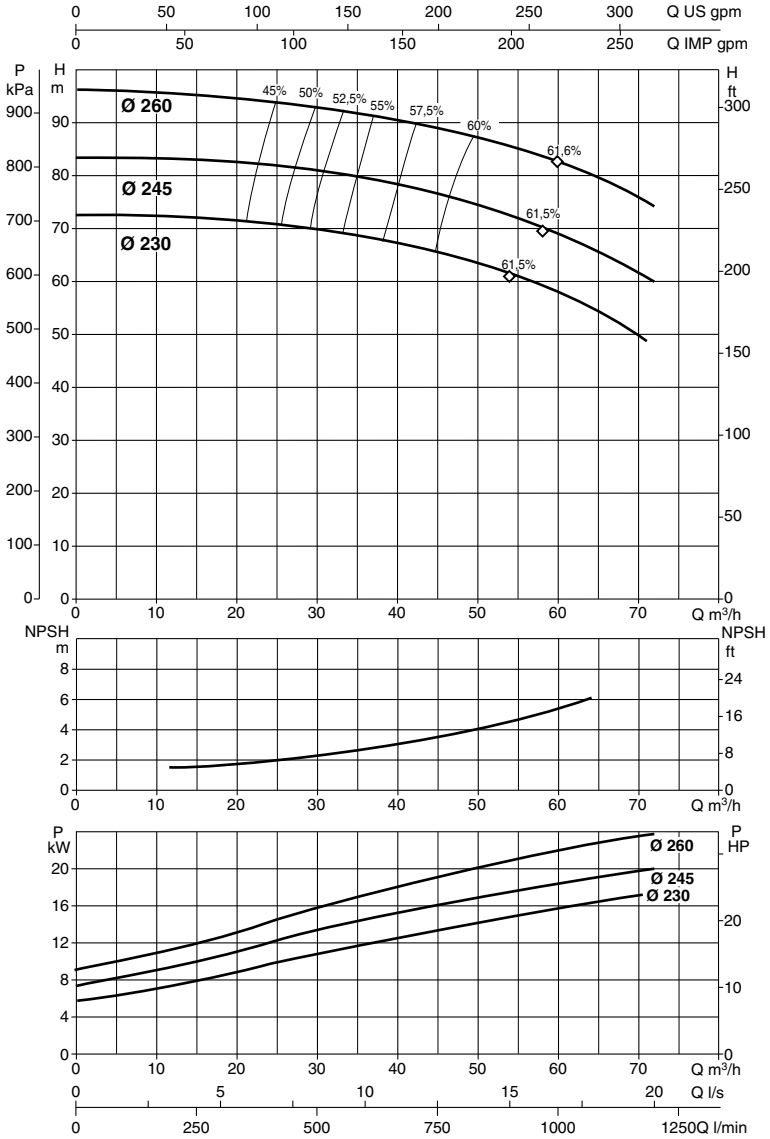
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 40-250

≅ 2900 1/min





MODEL	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKP 40-250/230/15/2	65	40	100	65	–	335	180	225	631,5	125	95	320	250	M12	–	–	28	830	430	515	0,183	114,3
NKP 40-250/245/18.5/2	65	40	100	65	254	335	180	225	784	-	-	314	254	M12	217,5	20	28	1030	530	640	0,349	156,9
NKP 40-250/260/22/2	65	40	100	65	254	335	180	225	784	-	-	314	254	M12	217,5	20	28	1030	530	640	0,349	173,9

* Insert the indicated size of the shim under the feet of the motor (not supplied).

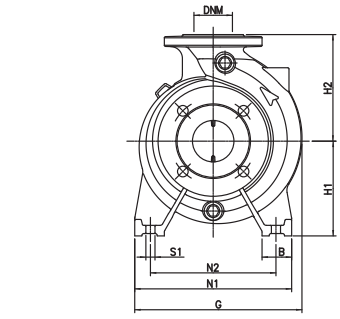
MODEL	ELECTRICAL DATA									HYDRAULIC DATA									
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	18	30	36	42	48	54	66	72
										l/min	0	300	500	600	700	800	900	1100	1200
NKP 40-250/230/15/2	400 V	17,5	15	20	31	217	2918	61,8	0,87	H (m)	72.5	72.5	70	68	66	62.5	60	51.5	–
NKP 40-250/245/18.5/2	400 V	22,0	18,5	25	36	259,2	2945	61,8	0,88		83	83	81.5	80	77	74	71.5	63.5	58.5
NKP 40-250/260/22/2	400 V	24,6	22	30	43	309,6	2960	61,8	0,88		96	95	93.5	92	90	87.5	84	76.5	71.5

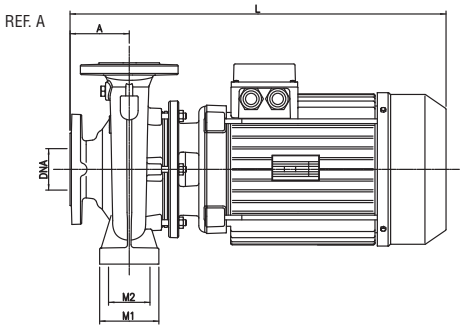
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

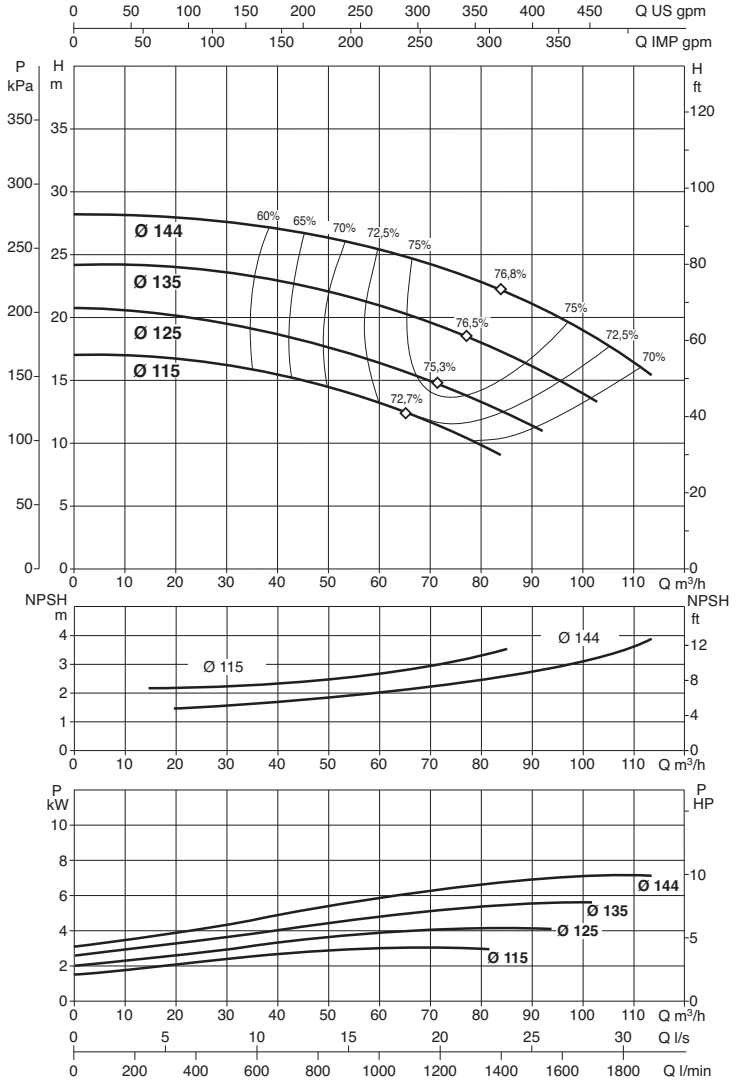
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 50-125

≅ 2900 1/min







MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKP 50-125/115/3/2 M	A	65	50	100	50	–	250	132	160	483,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	56,2
NKP 50-125/115/3/2	A	65	50	100	50	–	250	132	160	483,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	50,0
NKP 50-125/125/4/2 M	A	65	50	100	50	–	250	132	160	529,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	58,0
NKP 50-125/125/4/2	A	65	50	100	50	–	250	132	160	529,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	57,1
NKP 50-125/135/5,5/2	A	65	50	100	50	–	250	132	160	549,5	100	70	240	190	M12	–	–	28	680	430	575	0,168	63,9
NKP 50-125/144/7,5/2	A	65	50	100	50	–	250	132	160	594	100	70	240	190	M12	–	–	28	830	430	515	0,183	77,9

MODEL	ELECTRICAL DATA								HYDRAULIC DATA										
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	24	30	42	54	66	84	102	114
										l/min	0	400	500	700	900	1100	1400	1700	1900
NKP 50-125/115/3/2 M	220/240 V	4	3	4	18,0	81	2900	72,5	0,98		17	16.5	16	15	13.7	12	9	–	–
NKP 50-125/115/3/2	400 V	4	3	4	6,7	41,5	2839	72,5	0,84		17	16.5	16	15	13.7	12	9	–	–
NKP 50-125/125/4/2 M	220/240 V	5,2	4	5,5	24,0	108	2880	75,8	0,98		20.5	20	19.5	18.5	17.5	15.8	12.5	–	–
NKP 50-125/125/4/2	400 V	5,2	4	5,5	8,7	60,9	2830	75,8	0,85	H (m)	20.5	20	19.5	18.5	17.5	15.8	12.5	–	–
NKP 50-125/135/5,5/2	400 V	6,6	5,5	7,5	11,6	81,2	2870	76,8	0,86		24	23.6	23.5	22.8	21.5	20	17.5	13.4	–
NKP 50-125/144/7,5/2	400 V	8,7	7,5	10	14	99	2914	77,2	0,9		28	27.8	27.5	27	25.8	24.5	21.5	18	15.5

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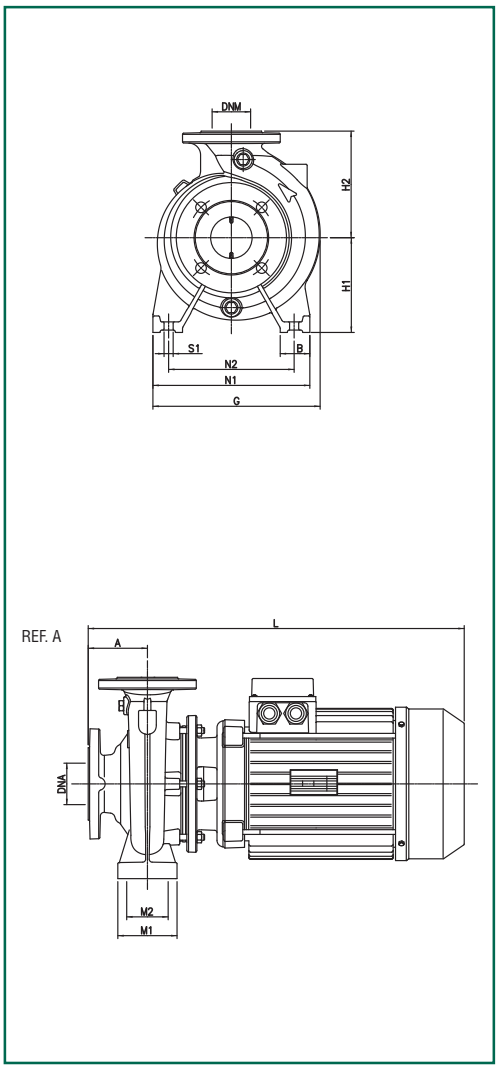
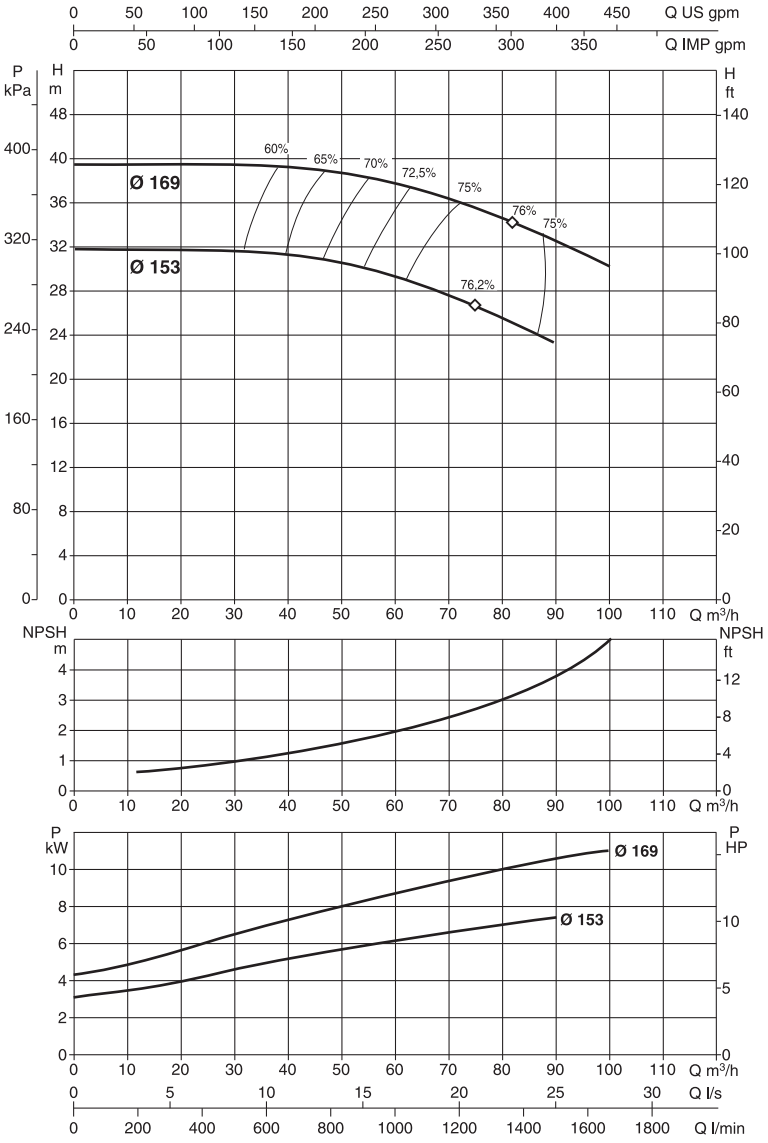
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 50-160

≅ 2900 1/min





MODEL	REF.	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKP 50-160/153/7.5/2	A	65	50	100	50	–	282	160	180	594	100	70	265	212	M12	–	–	28	830	430	515	0,183	79,3
NKP 50-160/169/11/2	A	65	50	100	50	–	282	160	180	632	100	70	265	212	M12	–	–	28	830	430	515	0,183	88,5

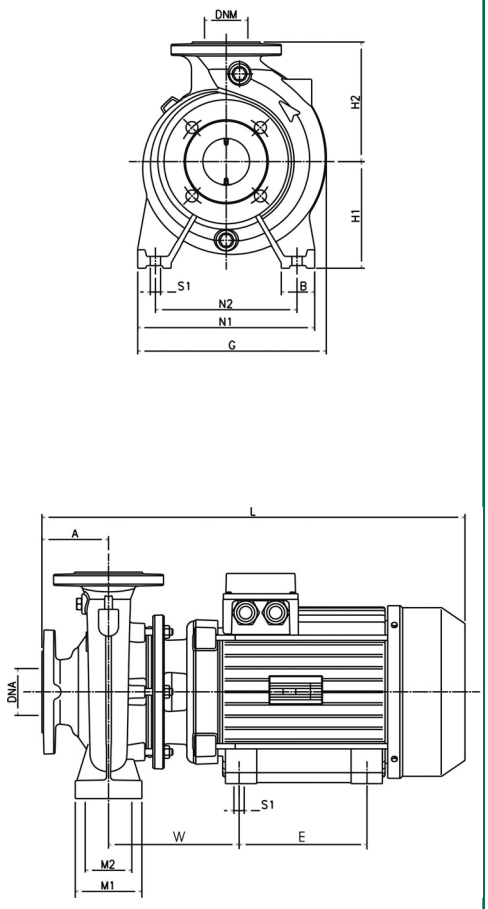
MODEL	ELECTRICAL DATA									HYDRAULIC DATA										
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	30	42	48	54	66	78	84	90
										l/min	0	500	700	800	900	1100	1300	1400	1500
NKP 50-160/153/7.5/2	400 V	9,4	7,5	10	14	99	2904	76,3	0,9	H (m)	32	32.4	31.5	31	30.5	28.5	26	25	23.5
NKP 50-160/169/11/2	400 V	13,2	11	15	22,5	157,5	2914	76	0,87		39.5	40	39.5	39	38.5	37.2	35	34	32.5

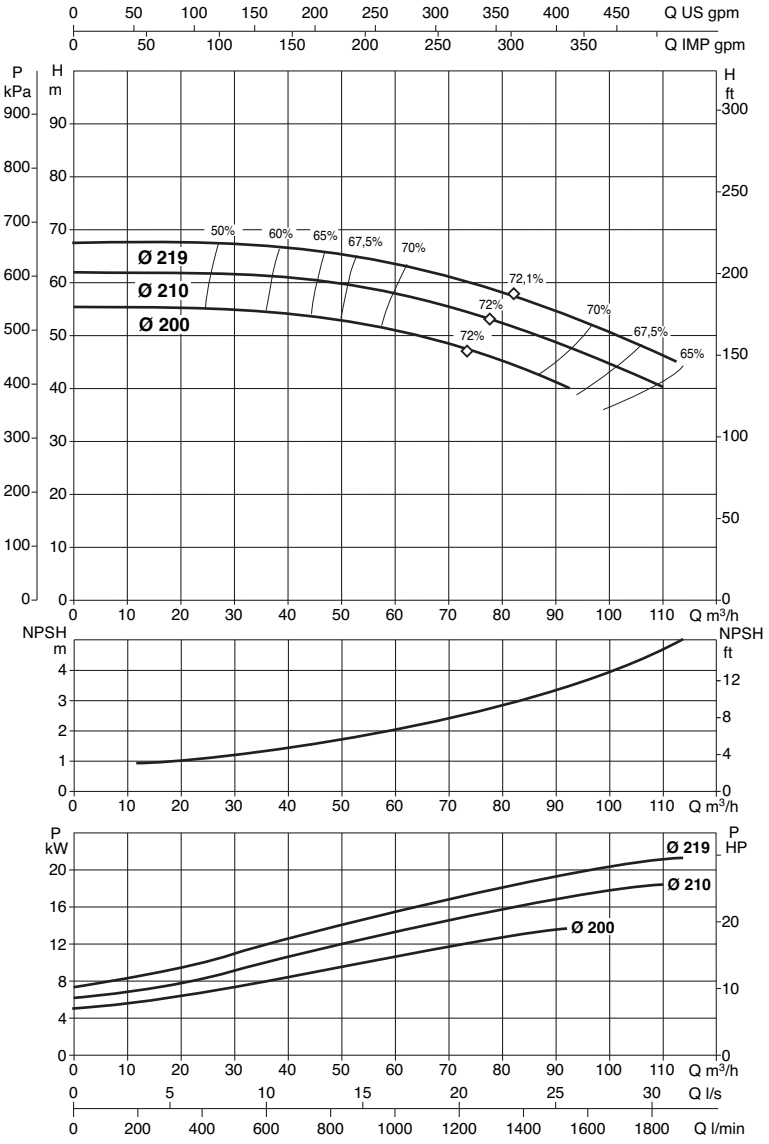
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 50-200

≅ 2900 1/min





MODEL	DNA	DNM	A	B	E	G	H1	H2	L	M1	M2	N1	N2	S1	W	Ø (mm) Mech. seal	PACKING DIMENSIONS L/A	L/B	H	Vol. m³	Weight Kg
NKP 50-200/200/15/2	65	50	100	50	–	302	160	200	631,5	100	70	265	212	M12	–	28	830	430	515	0,183	107,6
NKP 50-200/210/18,5/2	65	50	100	50	254	302	160	200	784	-	-	314	254	M12	217,5	28	1030	530	640	0,349	150,2
NKP 50-200/219/22/2	65	50	100	50	254	302	160	200	784	-	-	314	254	M12	217,5	28	1030	530	640	0,349	167,2

MODEL	ELECTRICAL DATA									HYDRAULIC DATA										
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	30	42	54	60	66	78	90	102
										l/min	0	500	700	900	1000	1100	1300	1500	1700
NKP 50-200/200/15/2	400 V	17,5	15	20	31	217	2918	72	0,87	H (m)	55	56	54	52	51	49	45.5	41	–
NKP 50-200/210/18,5/2	400 V	22,0	18,5	25	36	259,2	2947	72	0,88		61.5	62	61.5	59	58	56.5	53	48.5	43
NKP 50-200/219/22/2	400 V	24,5	22	30	43	309,6	2960	72	0,88		67.5	68	67	65.5	64	62.5	59.5	55	50

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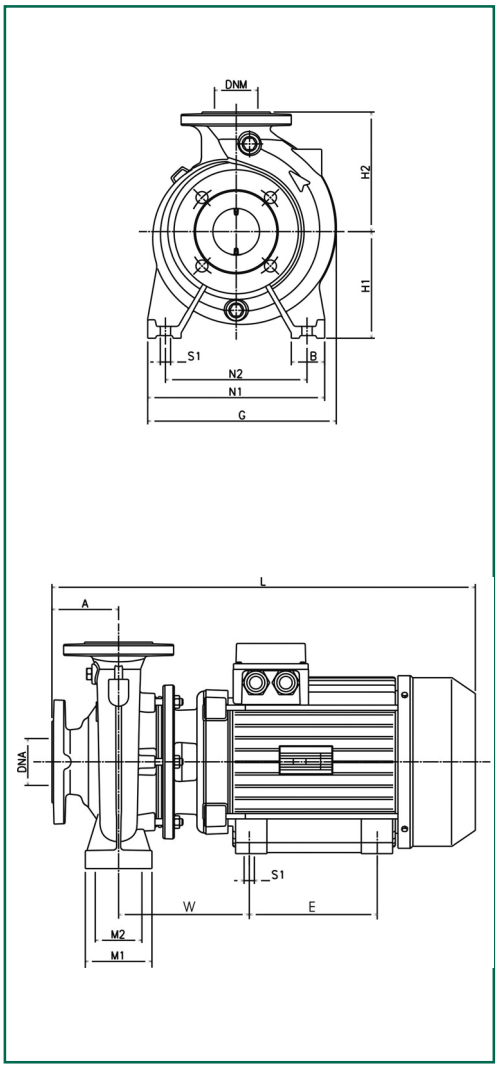
DAB PUMP PERFORMANCE

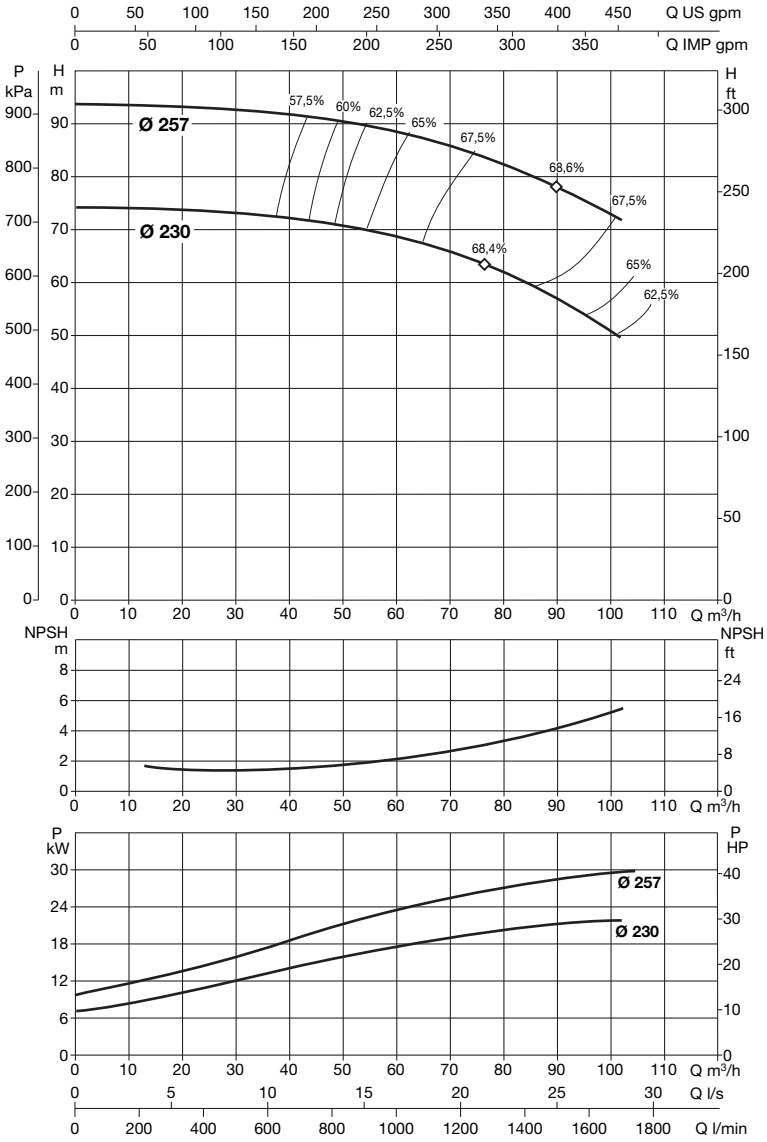
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP 50-250

≅ 2900 1/min





MODEL	DNA	DNM	A	B	E	G	H1	H2	L	N1	N2	S1	W	*	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Volume m³	Weight Kg
NKP 50-250/230/22/2	65	50	100	65	254	350	180	225	784	314	254	M12	217,5	20	28	1030	530	640	0,349	175,6
NKP 50-250/257/30/2	65	50	100	65	254	350	180	225	784	314	254	M12	217,5	20	28	1030	530	640	0,349	200,6

* Insert the indicated size of the shim under the feet of the motor (not supplied).

MODEL	ELECTRICAL DATA									HYDRAULIC DATA									
	Voltage	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	η max %	cos φ	Q m³/h	0	30	42	54	66	78	84	90	102
										l/min	0	500	700	900	1100	1300	1400	1500	1700
NKP 50-250/230/22/2	400 V	25,5	22	30	43	309,6	2960	68,3	0,88	H (m)	73.5	75	73.8	71	67	62.5	60	57	49
NKP 50-250/257/30/2	400 V	33,5	30	40	57	231	2955	68,3	0,88		92.5	94	93.6	91	87.5	83	81	78	72

COUNTERFLANGE KIT

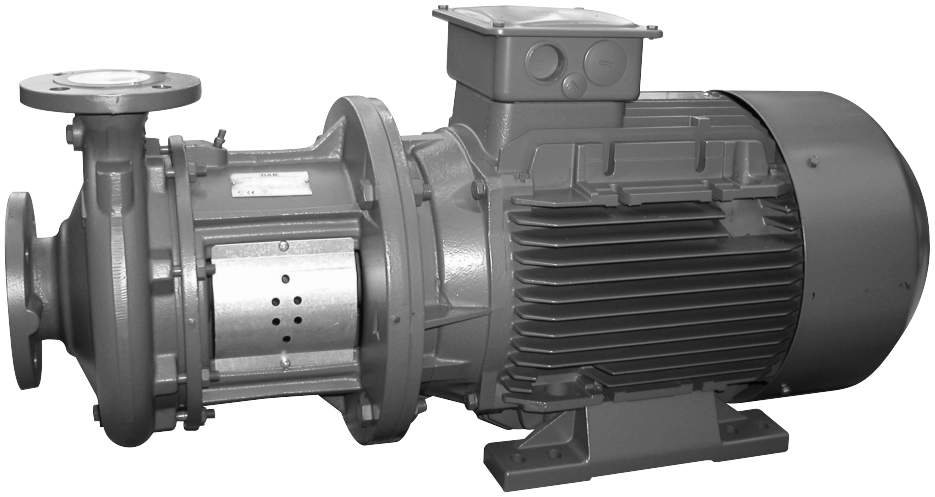
Available on request separately from the pump.
The kit comprises intake and delivery counterflanges with the relative gaskets, screws and nuts required by the size of the pump to which it refers.

PARTS	COUNTERFLANGES AND GASKETS	THREADED	TO WELD	MATERIAL	PN
DIN 32	1XDN 32 + 1XDN 50	YES	YES	STEEL	16
DIN 40	1XDN 40 + 1XDN 65	YES	YES	STEEL	16
DIN 50	1XDN 50 + 1XDN 65	YES	YES	STEEL	16

DAB PUMPS reserve the right to make modifications without prior notice

NKM-G NKP-G

STANDARDISED ENBLOC



CE

GENERAL DATA

Applications

Enbloc, centrifugal motor-driven pumps with coupling designed for a wide range of applications such as:

- supplying water
- the circulation of hot water for central heating
- the circulation of cold water for air conditioning and refrigerating
- the transfer of liquids in agriculture, horticulture and in industries
- the implementation of pumping systems

Constructional features of the pump

Single-stage, cast iron spiral body made to DIN-EN 733 (formerly DIN 24255), cast iron support, flanges in accordance with DIN 2533 and DIN 2532 for DN 200. Impeller in cast iron, encased and dynamically balanced with compensation of the axial thrust by means of balancing holes, operating (on request) with interchangeable wear rings. AISI 304 stainless steel pump shaft.
Seal: standardised mechanical seal made to DIN 24960 in carbon/ carborundum with or rings in EPDM.

Constructional features of the motor

Closed, asynchronous motor with external ventilation, construction type B3/B5, 2 poles for NKP and 4 poles for NKM. The rotor is mounted on extra large ball bearings to guarantee low noise running and durability. We recommend using overload protection for the motor, in accordance with current norms. In the case of liquids denser than water, the motors must be proportionally more powerful.
Construction in compliance with the CEI 2-3 standards.
Protection level: IP 55
Insulation class: F
Standard voltage: 230/400 V - 50 Hz up to 2,2 kW inclusive
400V ∅50 Hz over 2,2 kW

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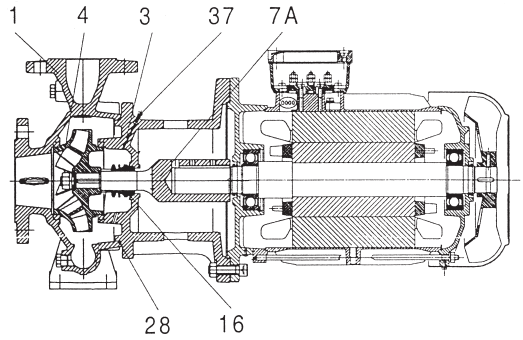
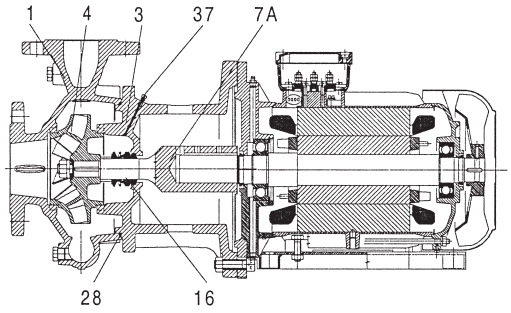
TECHNICAL DATA

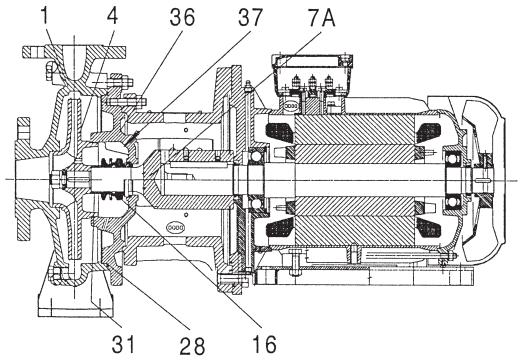
VERSION WITH MOTOR UP TO 7,5 KW



VERSION WITH MOTOR OVER 7,5 KW



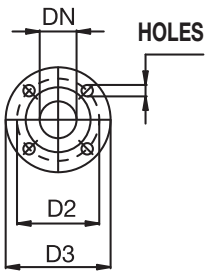
VERSION FOR MODELS: NKM-G 65-315/309/11 /4, NKM-G100-315/316/22 /4, NKM-G125-250/243/15 /4, NKM-G 80-200/200/ 4 /4, NKM-G 80-250/270/11 /4, NKM-G 80-315/305/15 /4, NKM-G 80-315/320/18,5 /4, NKM-G 80-315/334/22 /4 NKM-G100-250/250/11 /4, NKM-G150-200/218/11 /4



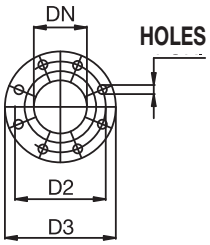
N.	PARTS	MATERIALS (STANDARD VERSION)
1	PUMP BODY	CAST IRON 250 UNI ISO 185
3	SUPPORT	CAST IRON 250 UNI ISO 185
4	IMPELLER	CAST IRON 250 UNI ISO 185
7A	PUMP SHAFT	STAINLESS STEEL AISI 304 - UNI 6900/71
16	MECHANICAL SEAL	CARBON/CARBORUNDUM - EPDM
28	GASKET OR	EDPM
31	SPACER SEAL	STAINLESS STEEL AISI 304 - UNI 6900/71
36	SEAL HOLDER DISK	CAST IRON 250 UNI ISO 185
37	BLEED COCK	STAINLESS STEEL AISI 304 - UNI 6900/71

N.	PARTS	MATERIALS (VERSION ON REQUEST)
4	IMPELLER	BRONZE GCuSn5Zn5Pb5 UNI 7013/8a-72
16	MECHANICAL SEAL	CARBORUNDUM/CARBORUNDUM - EPDM CARBORUNDUM/CARBORUNDUM - VITON CARBON/CARBORUNDUM - VITON

- Rotation speed: 1450 - 2900 1/min.
- Operating range: from 1 to 500 m^3/h with a head of up to 100 m.
- Pumped liquid: without solid or abrasive substances, not viscous, not aggressive, not crystallised and chemically neutral, close to water characteristisc.
- Liquid temperature range: from -10°C to +140°C.
- Maximum ambient temperature: +40°C.
- Maximum working pressure: 16 bar - 1600 kPa (for DN 200 max 10 bar).
- Flanging: PN 16 DIN 2533
  PN 10 DIN 2532 for DN 200
- Installation: normally horizontal or vertical provided the motor is always above the pump.
- Special version on request: pumps for liquid other than water.
  Other voltages and/or frequencies.



		Nominal diameter (DN)			
		DIN 2533 PN 16			
DN		32	40	50	65
D2		100	110	125	145
D3		140	150	165	185
HOLES	Ø	18			
	N°	4			



Nominal diameter (DN)				
DIN 2533 PN 16				DIN 2532 PN 16
80	100	125	150	200
160	180	210	240	295
200	220	250	285	340
18				22
8				8

Description of the product

NKM-G 100 - 200 / 198/ A W /BAQE / 5,5 /4

NKM = 4 poles
NKP = 2 poles
G = With coupling
Nominal diameter of discharge port:
Nominal impeller diameter:
Actual impeller diameter:
Code of materials:
A = Cast iron
B = Cast iron with bronze impeller
Neck rings (if present)
Description of the seal
Motor power in kW
Pole number
4P = 4 poles
2P = 2 poles

Description of the mechanical seal

Item	Code	Description of the seal
1	A	O ring with fixed guide
	B	Rubber bellows seal
	C	O ring with spring guide
	D	Balanced O ring
	M	Metal bellows seal
	X	Other seal types
Item	Code	Materials
2 & 3	A	Impregnated carbon/metal
	B	Impregnated carbon/resin
	C	Other carbon types
	S	Chromium steel
	U	Tungsten carbide
	Q	Carborundum
	V	Aluminium oxide (ceramic)
	X	Other ceramic types
Item	Code	Materials
4	P	Nitrile rubber (NBR)
	S	Silicone rubber
	T	Teflon (PTFE)
	E	EPDM
	V	Viton
	M	PTFE coated O ring
Item	Code	Materials
5	v	Reinforced

Description of the product code

Impeller's nominal diameter	Code
125	1
160	2
200	3
250	4
315	5
125.1	K
160.1	L
200.1	M

Pump type	Code
32	1
40	2
50	3
65	4
80	5
100	6
125	7
150	8

Identification	Code
DAB PUMPS S.p.A.	D

	Code
DAB PUMPS S.p.A.	1

Code	Pump/impeller materials
1	A (01) = cast iron/cast iron
2	B (03) = cast iron/bronze
5	A (01) + Wr*
6	B (03) + Wr*

* With consumable rings

Code	Seal available
1	BAQE
5	BQQV*
7	BAQV*
G	BQQE*

* On request

Code	Pump type
B	NKM-G / NKP-G

Code	P2 nominal kW
1	0,37
2	0,55
3	0,75
4	1,1
5	1,5
6	2,2
7	3
8	4
9	5,5
A	7,5
B	11
C	15
D	18,5
E	22
F	30

Code	Voltage	Poles
0	Only hydraulic part	
1	3x220-240 / 380-415V 50 Hz 3x220-265 / 380-460V 60 Hz	2
2	3x380-415 50 Hz 3x380-460V 60 Hz	2
3	3x220-240 / 380-415V 50 Hz 3x220-265 / 380-460V 60 Hz	4
4	3x380-415 50 Hz 3x380-460V 60 Hz	4

Product code	1	D	1	1	1	1	B	1	1

PERFORMANCE RANGE

NUMERICAL SELECTION TABLE
≅ 1450 1/min

MODEL	P2 NOMINAL KW	P2 NOMINAL HP	Q m³/h	0	6	12	18	24	30	36	42	48	54	60
			l/min	0	100	200	300	400	500	600	700	800	900	1000
NKM-G 32-125.1/140/0.25/4	0.25	0.33		6.2	5.8	4.2								
NKM-G 32-125/142/ 0.37/4	0.37	0.5		7	6.75	5.85	4.2							
NKM-G 32-160.1 169/0.37/4	0.37	0.5		8.9	8.2	4.6								
NKM-G 32-160/169/0,55/4	0.55	0.75		9.4	9	7.9	5.6							
NKM-G 32-200.1 200/0,55/4	0.55	0.75		12.7	11.2	7.2								
NKM-G 32-200/200/ 0,75/4	0.75	1		13	12.5	11.1	8.45							
NKM-G 32-200/219/ 1,1 /4	1.1	1.5		16	15.4	14.3	12.2							
NKM-G 40-125/115/ 0.25/4	0.25	0.33		4.2	4.1	3.7	3	2.1						
NKM-G 40-125/130/ 0.37/4	0.37	0.5		5.4	5.3	5.	4.4	3.5						
NKM-G 40-125/142/ 0.55/4	0.55	0.75		6.6	6.5	6.2	5.7	4.8						
NKM-G 40-160/153/ 0.55/4	0.55	0.75		7.6	7.6	7.5	6.7	5.5						
NKM-G 40-160/166/ 0.75/4	0.75	1		9.2	9.2	9	8.4	7.4	5.7					
NKM-G 40-200/200/ 1,1 /4	1.1	1.5		12.5	12.5	12.3	11.2	9.7	7.7					
NKM-G 40-200/219/ 1,5 /4	1.5	2		15.6	15.6	15.3	14.7	13.4	11.8	9.8				
NKM-G 40-250/245/ 2,2 /4	2.2	3		20.6	20.5	20.1	19.2	17.8	16					
NKM-G 40-250/260/ 3 /4	3	4		23.3	23.1	22.8	22.2	20.8	19					
NKM-G 50-125/130/ 0.55/4	0.55	0.75		5.5		5.2	5	4.7	4.3	3.9	3.3	2.6		
NKM-G 50-125/141/ 0.75/4	0.75	1		6.5		6.3	6.1	5.8	5.5	5	4.5	3.9		
NKM-G 50-160/161/ 1.1 /4	1.1	1.5		8.6		8.6	8.5	8.2	7.8	7.3	6.7	5.7		
NKM-G 50-160/177/ 1,5 /4	1.5	2		10.7		10.7	10.7	10.5	10.2	9.8	9.2	8.3		
NKM-G 50-200/210/ 2,2 /4	2.2	3		15.3		15.3	15.2	14.8	14	13.3	12.1	10.8	9.4	
NKM-G 50-200/219/ 3 /4	3	4		16.8		16.8	16.5	16.1	15.5	14.6	13.6	12.4	10.9	
NKM-G 50-250/263/ 4 /4	4	5.5		23.8		23.8	23.8	23.4	22.7	21.6	20.4	19	17.1	
NKM-G 65-125/130/ 0.75/4	0.75	1		5.1		4.9	4.8	4.75	4.7	4.4	4.2	3.8	3.4	3
NKM-G 65-125/144/ 1.1 /4	1.1	1.5		6.5		6.4	6.4	6.3	6.2	6	5.75	5.5	5.1	4.65
NKM-G 65-160/153/ 1,1 /4	1.1	1.5		7.4		7.4	7.3	7.15	6.9	6.65	6.25	5.8	5.3	4.4
NKM-G 65-160/165/ 1,5 /4	1.5	2	H (m)	8.9			8.8	8.7	8.6	8.3	8	7.6	7.15	6.6
NKM-G 65-160/177/ 2,2 /4	2.2	3		10.5				10.4	10.3	10.2	9.9	9.6	9.2	8.75
NKM-G 65-200/210/ 3 /4	3	4		15.3				15.2	15.2	15.1	14.6	14.1	13.5	12.9
NKM-G 65-200/219/ 4 /4	4	5.5		17				17	16.9	16.8	16.4	16.2	15.8	15.2
NKM-G 65-250/263/ 5,5 /4	5.5	7.5		24.1				23.8	23.6	23.3	22.8	22.3	21.5	20.8
NKM-G 65-315/279/ 7,5 /4	7.5	10		27							26	25.5	25	24.5
NKM-G 65-315/309/11 /4	11	15		34.2							33.2	33	32.5	32
NKM-G 80-160/153-136/1.5/4	1.5	2		6.5					6.35	6.3	6.2	5.95	5.75	5.55
NKM-G 80-160/163/ 2,2 /4	2.2	3		8.65					8.5	8.45	8.3	8.15	7.9	7.7
NKM-G 80-160/177/ 3 /4	3	4		10.2					10.2	10.1	10	9.9	9.75	9.65
NKM-G 80-200/200/ 4 /4	4	5.5		13.2							13.1	13	12.9	12.8
NKM-G 80-200/222/ 5,5 /4	5.5	7.5		16.6							16.5	16.5	16.4	16.2
NKM-G 80-250/240/ 7,5 /4	7.5	10		20.4							20.3	20.3	20.2	20.1
NKM-G 80-250/270/11 /4	11	15		25.6							25.5	25.5	25.4	25.1
NKM-G 80-315/305/15 /4	15	20		32.9									32.7	32.6
NKM-G 80-315/320/18,5 /4	18.5	25		36.8									36.7	36.7
NKM-G 80-315/334/22 /4	22	30		41									40.8	40.8
NKM-G100-200/200/ 5.5 /4	5.5	7.5		12.7										12.6
NKM-G100-200/214/ 7.5 /4	7.5	10		15.6										15.4
NKM-G100-250/250/11 /4	11	15		21.1										21
NKM-G100-250/270/15 /4	15	20		25.5										25.5
NKM-G100-315/300/18.5 /4	18.5	25		32										
NKM-G100-315/316/22 /4	22	30		36										
NKM-G125-250/243/15 /4	15	20		19.5										
NKM-G125-250/256/18,5 /4	18.5	25		21.9										
NKM-G125-250/266/22 /4	22	30		24.6										
NKM-G150-200/218/11 /4	11	15		13.2										

DAB PUMPS reserve the right to make modifications without prior notice

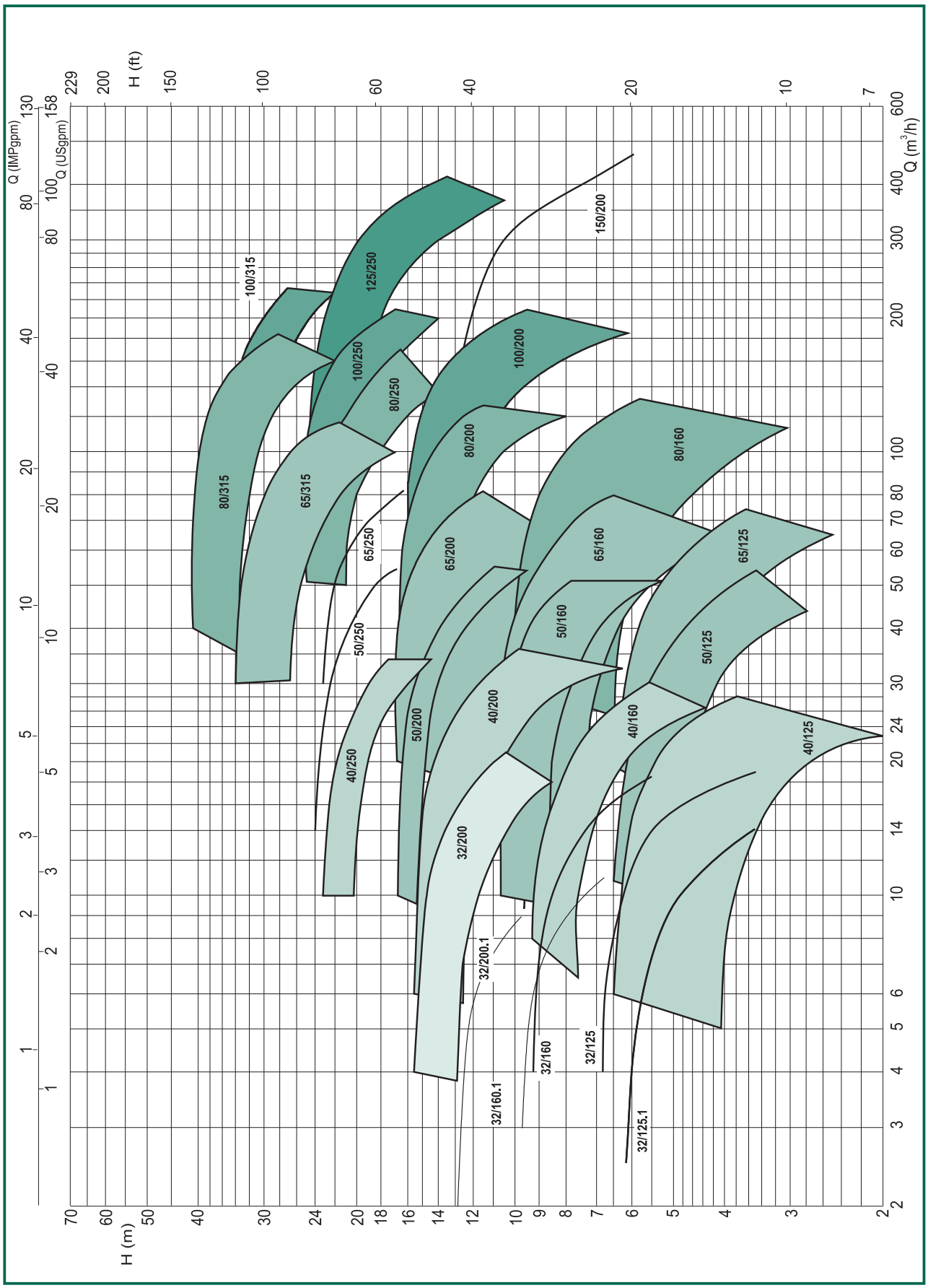
66	72	78	84	90	102	114	120	150	180	210	240	270	300	330	360	390	420
1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
2.5																	
4.2	3.75																
6																	
8.2	7.4	6.6															
12.2	11.3																
14.3	13.8	12.6															
19.7	18.6	17.3															
23.6	22.7	21.5	20.2	19													
31.5	30.7	29.8	29	28	25	21.7											
5.3	5	4.7	4.5	4.25	3.65	3											
7.4	7.2	6.9	6.65	6.3	5.7	4.9	4.6										
9.5	9.25	9	8.8	8.6	7.9	7.2	6.7										
12.7	12.4	12	11.7	11.3	10.4	9.3	8.7										
16.1	16	15.7	15.4	15	14.3	13.3	12.7										
20	19.9	19.8	19.5	19	18	16.7	16										
25	24.8	24.6	24.2	24	23	21.5	21										
32.6	32.5	32.4	32	31.6	30.5	29.5	28.9	24									
36.6	36.5	36.5	36.5	36.1	35.5	34.5	34	29.5									
40.7	40.6	40.6	40.4	40.2	39.8	39	38.5	34.8	29								
12.6	12.5	12.5	12.4	12.3	12	11.5	11.4	10.1	8.5								
15.4	15.3	15.2	15.1	15	14.7	14.5	14.3	13.3	11.6	9.8							
21	21	21	21	21	20.9	20	19.8	18	16								
25.5	25.5	25.3	25.1	25.1	25	24.5	24	22.5	20.5	17.5							
			31.5	31.4	31	30.5	28.8	26	23								
			35.5	35.2	35	34.6	33.2	31	28	24							
					19.3	19.3	19.2	19.2	18.7	17.8	16.8	15.5	14.1	12.5	10.9		
					21.8	21.8	21.7	21.6	21.3	20.5	19.5	18.5	17.2	15.6	14	12	
					24.4	24.2	24.1	24	23.5	22.9	22	21	19.8	18.5	16.7	15	
					13.1	13	13	12.8	12.5	12.1	11.5	11	10.4	9.7	9	8	7

PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

≅ 1450 1/min



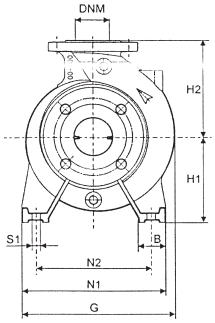
DAB PUMPS reserve the right to make modifications without prior notice

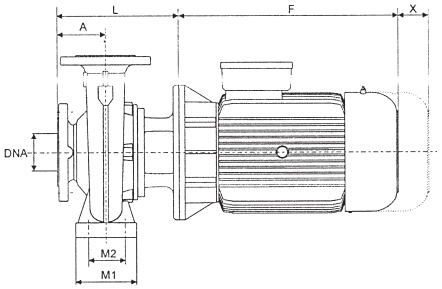
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

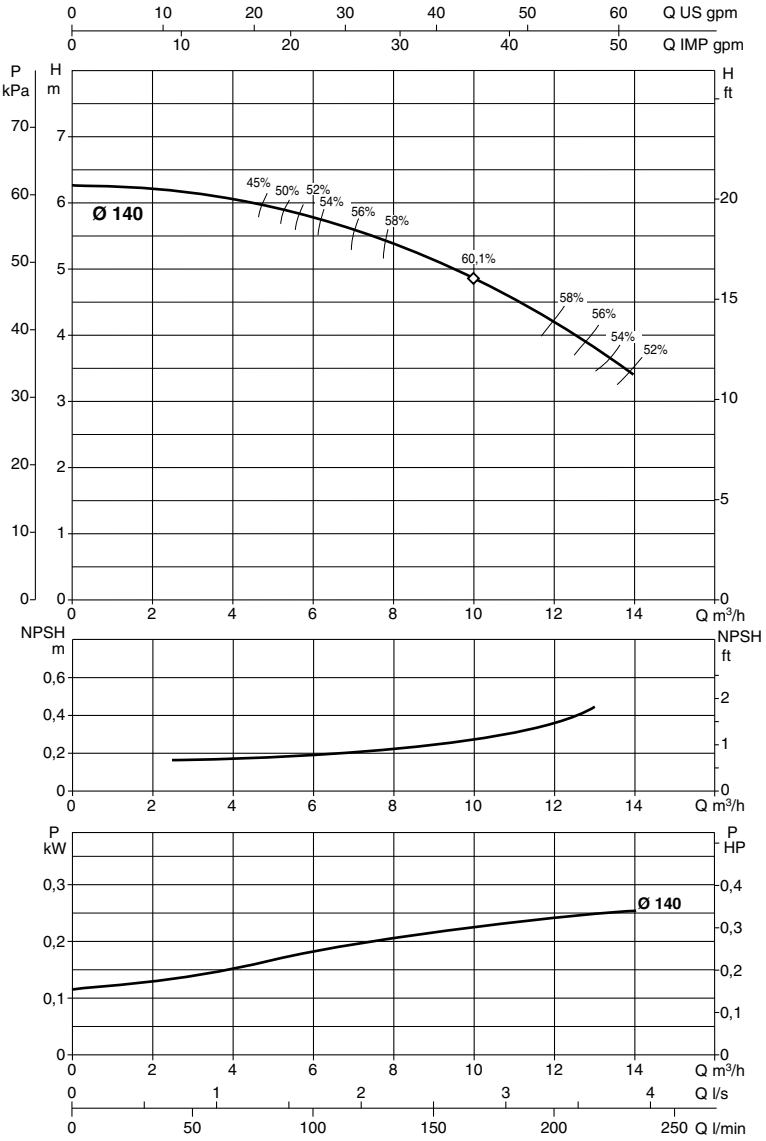
NKM-G 32-125.1

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 32-125.1/140/0.25/4	50	32	80	50	–	208	234	112	140	201	100	70	190	140	M10	–	100	28	620	370	480	0,110	32

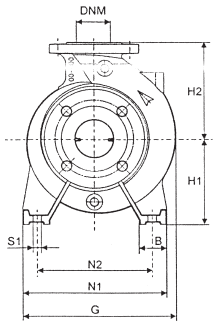
MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						l/min	0	100	200	300
NKM-G 32-125.1/140/0.25/4	MEC 71	230/400 V	0.25	0.33	1.2-0.7	H (m)	6.2	5.8	4.2	–

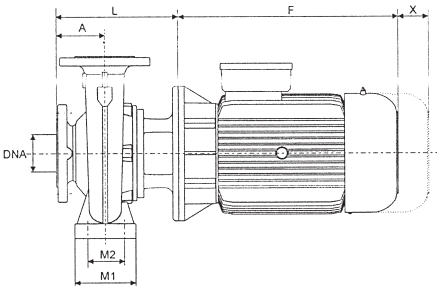
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

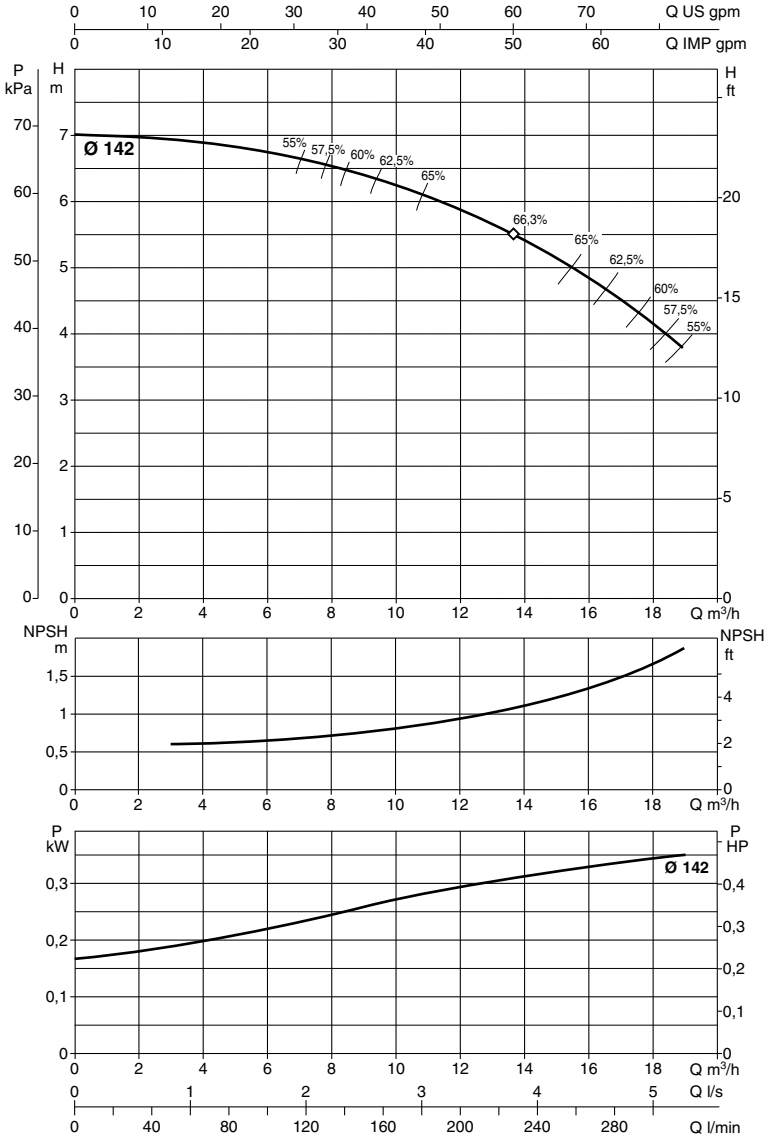
NKM-G 32-125

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 32-125/142/ 0.37/4	50	32	80	50	–	208	234	112	140	201	100	70	190	140	M10	–	100	28	620	370	480	0,110	35

MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						l/min	0	100	200	300
NKM-G 32-125/142/ 0.37/4	MEC 71	230/400 V	0.37	0.5	2-1.18	H (m)	7	6.75	5.85	4.2

DAB PUMPS reserve the right to make modifications without prior notice

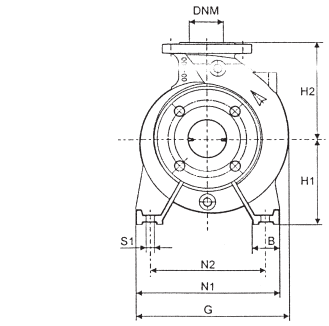
DAB PUMP PERFORMANCE

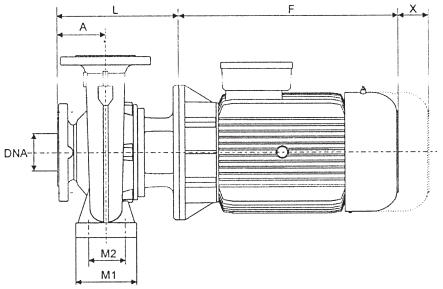
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

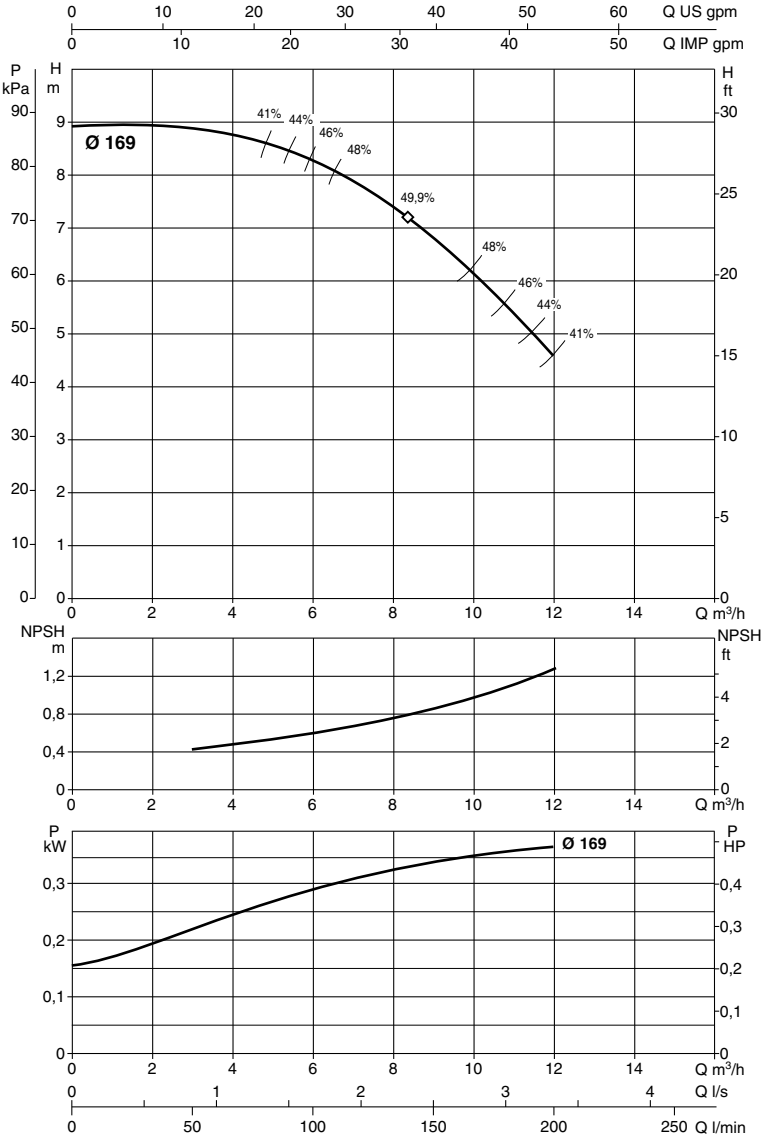
NKM-G 32-160.1

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 32-160.1/169/0.37/4	50	32	80	50	–	208	245	132	160	201	100	70	240	190	M10	–	100	28	620	370	480	0,110	34

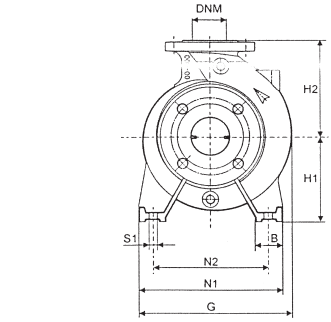
MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						l/min	0	100	200	300
NKM-G 32-160.1/169/0.37/4	MEC 71	230/400 V	0.37	0.5	2-1.18	H (m)	8.9	8.2	4.6	–

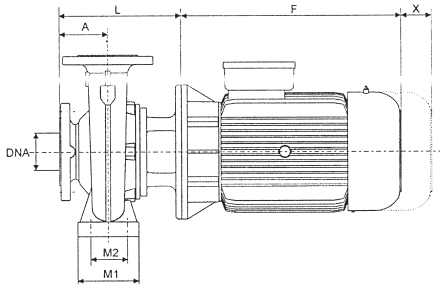
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

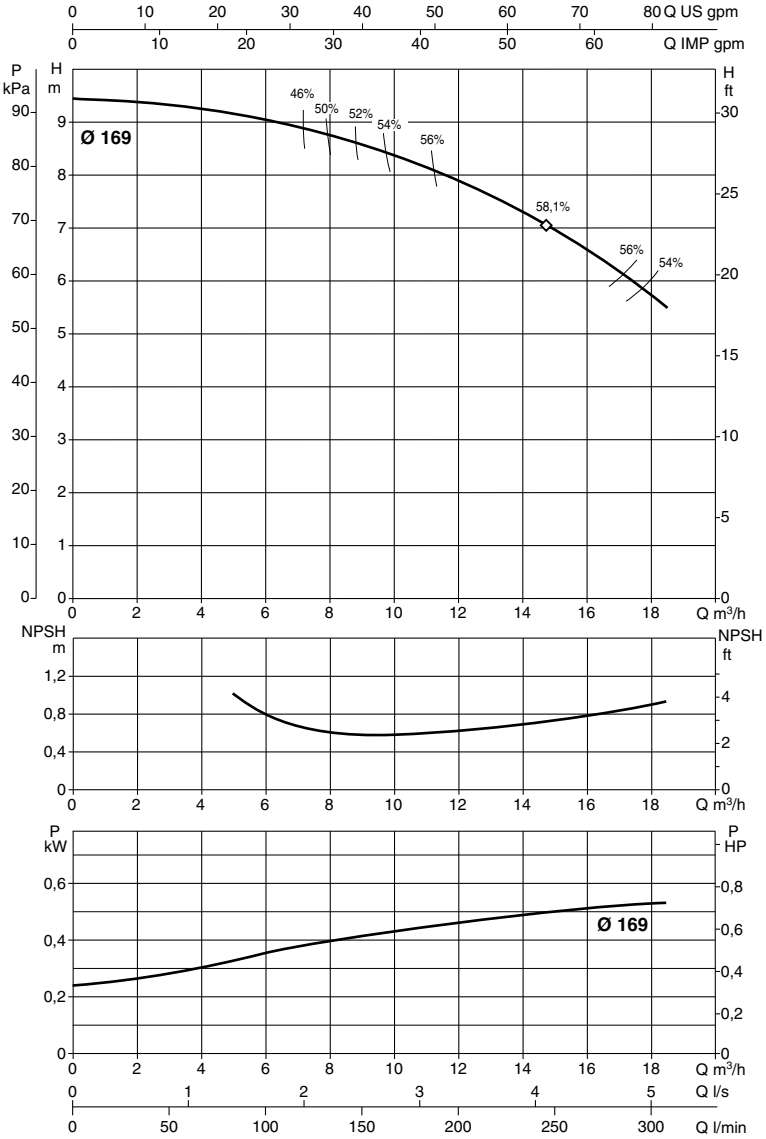
NKM-G 32-160

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	PACKING DIMENSIONS B	PACKING DIMENSIONS H	Vol.	Weight Kg
NKM-G 32-160/169/0,55/4	50	32	80	50	–	234	245	132	160	226	100	70	240	190	M10	–	100	28	620	370	480	0,110	42

MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						l/min	0	100	200	300
NKM-G 32-160/169/0,55/4	MEC 80	230/400 V	0.55	0.75	2.8-1.6	H (m)	9.4	9	8.8	5.6

DAB PUMPS reserve the right to make modifications without prior notice

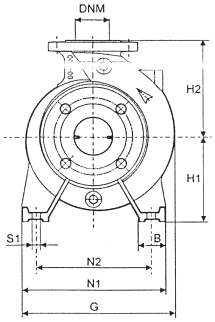
DAB PUMP PERFORMANCE

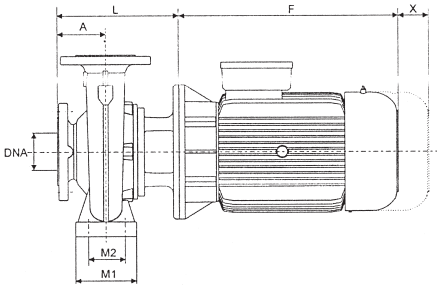
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

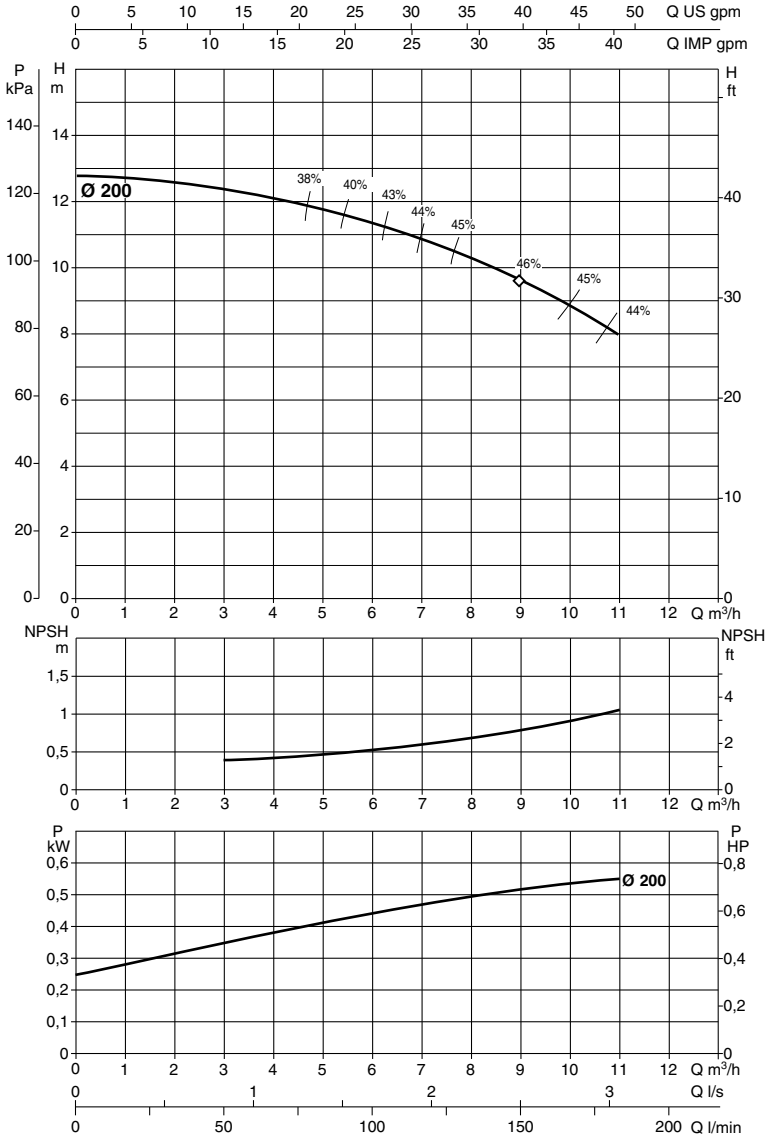
NKM-G 32-200.1

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 32-200.1/200/0,55/4	50	32	80	50	–	234	279	160	180	226	100	70	240	190	M10	–	100	28	620	370	480	0,110	51

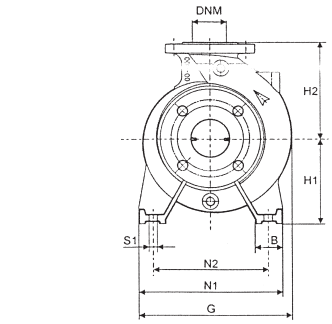
MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						l/min	0	100	200	300
NKM-G 32-200.1/200/0,55/4	MEC 80	230/400 V	0.55	0.75	2.8-1.6	H (m)	12.7	11.2	7.2	–

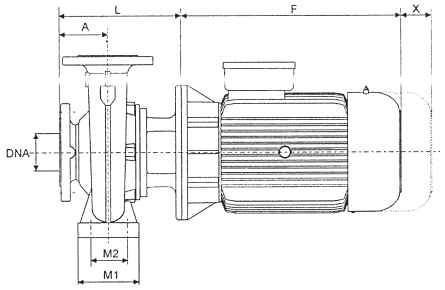
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

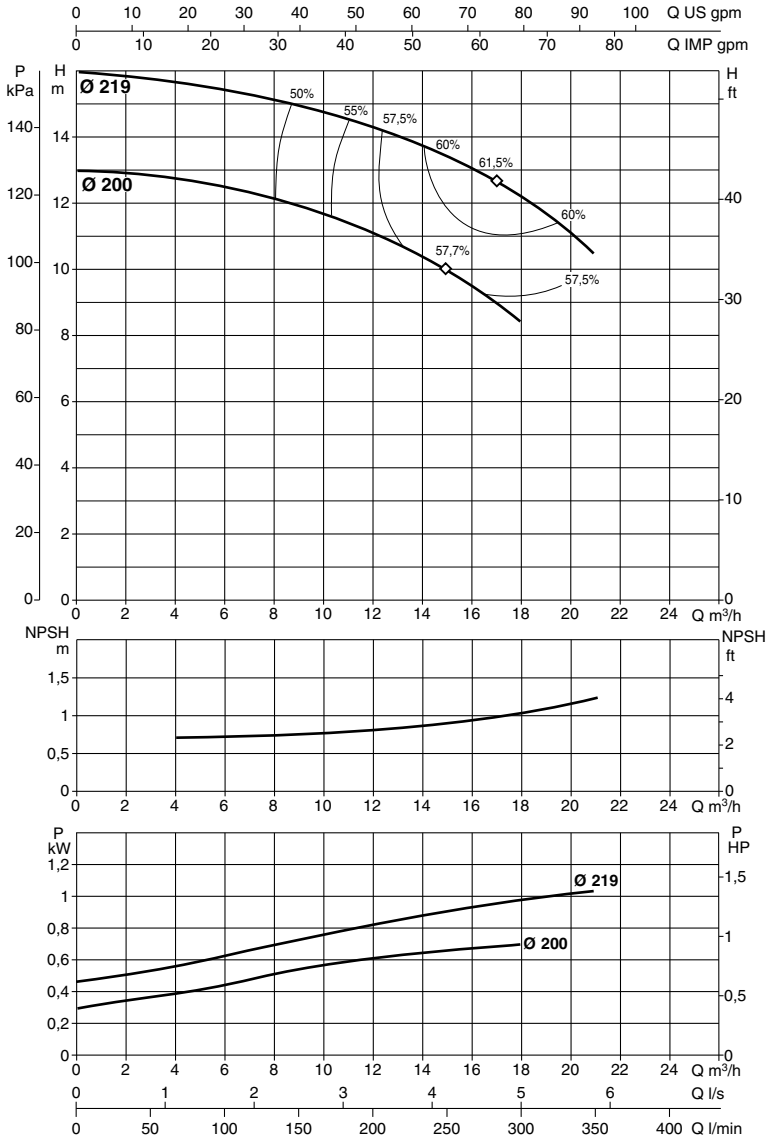
NKM-G 32-200

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 32-200/200/ 0,75/4	50	32	80	50	–	234	279	160	180	226	100	70	240	190	M10	–	100	28	620	370	480	0,110	56
NKM-G 32-200/219/ 1,1 /4	50	32	80	50	–	247	279	160	180	226	100	70	240	190	M10	–	100	28	620	370	480	0,110	62

MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-G 32-200/200/ 0,75/4	MEC 80	230/400 V	0.75	1	3.8-2.2	H (m)	13	12.5	11.1	8.45	–	–	–
NKM-G 32-200/219/ 1,1 /4	MEC 90 S	230/400 V	1.1	1.5	5-2.9		16	15.4	14.3	12.2	–	–	–

DAB PUMPS reserve the right to make modifications without prior notice

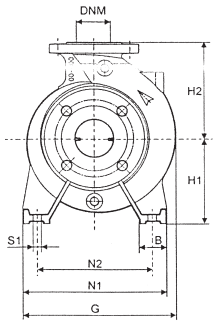
DAB PUMP PERFORMANCE

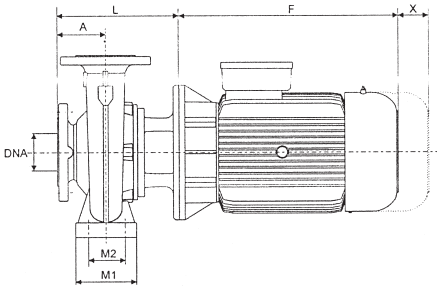
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

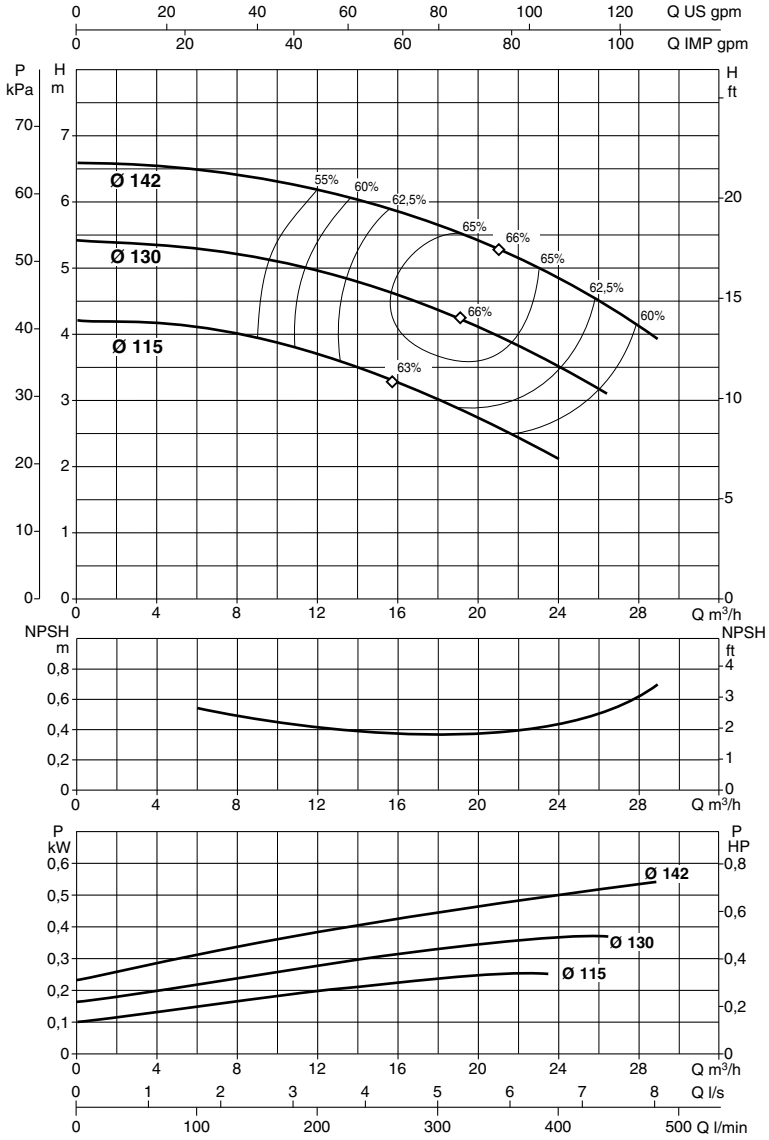
NKM-G 40-125

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 40-125/115/ 0.25/4	65	40	80	50	–	208	235	112	140	201	100	70	210	160	M10	–	100	28	620	370	480	0,110	37
NKM-G 40-125/130/ 0.37/4	65	40	80	50	–	208	235	112	140	201	100	70	210	160	M10	–	100	28	620	370	480	0,110	40
NKM-G 40-125/142/ 0.55/4	65	40	80	50	–	234	235	112	140	201	100	70	210	160	M10	–	100	28	620	370	480	0,110	47

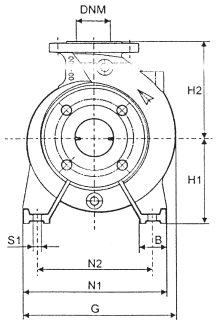
MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-G 40-125/115/ 0.25/4	MEC 71	230/400 V	0.25	0.33	1.2-0.7	H (m)	4.2	4.1	3.7	3	2.1	–	–
NKM-G 40-125/130/ 0.37/4	MEC 71	230/400 V	0.37	0.5	2-1.18		5.4	5.3	5	4.4	3.5	–	–
NKM-G 40-125/142/ 0.55/4	MEC 80	230/400 V	0.55	0.75	2.9-1.7		6.6	6.5	6.2	5.7	4.8	–	–

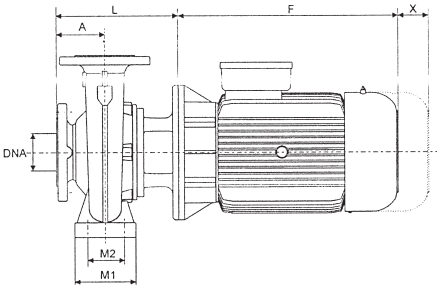
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

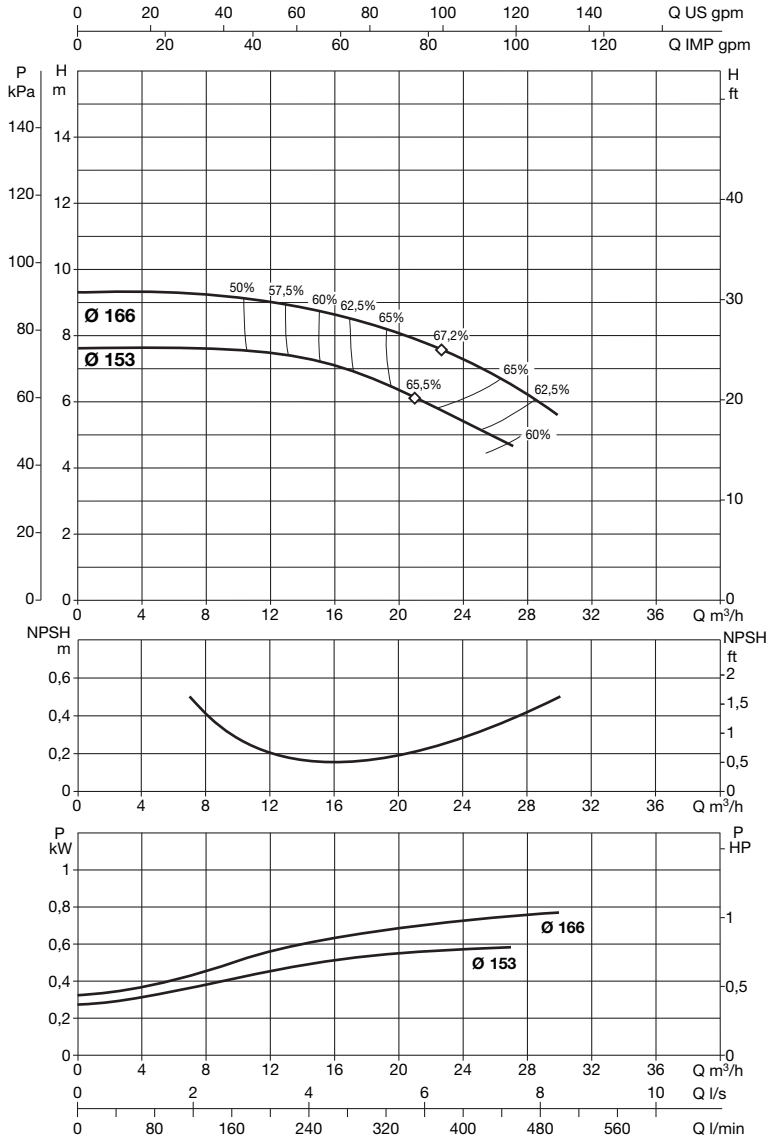
NKM-G 40-160

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 40-160/153/ 0.55/4	65	40	80	50	–	234	253	132	160	226	100	70	240	190	M10	–	100	28	620	370	480	0,110	48
NKM-G 40-160/166/ 0.75/4	65	40	80	50	–	234	253	132	160	226	100	70	240	190	M10	–	100	28	620	370	480	0,110	50

MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-G 40-160/153/ 0.55/4	MEC 80	230/400 V	0.55	0.75	2.8-1.6	H (m)	7.6	7.6	7.5	6.7	5.5	–	–
NKM-G 40-160/166/ 0.75/4	MEC 80	230/400 V	0.75	1	3.8-2.2		9.2	9.2	9	8.4	7.4	5.7	–

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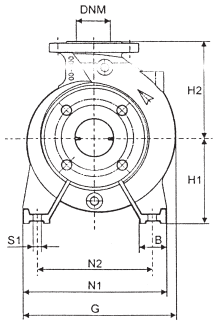
DAB PUMP PERFORMANCE

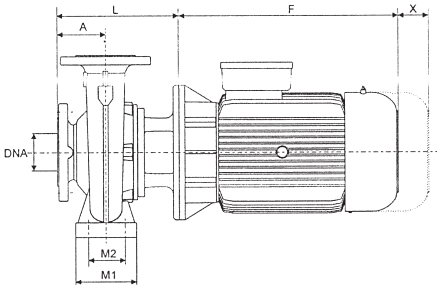
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

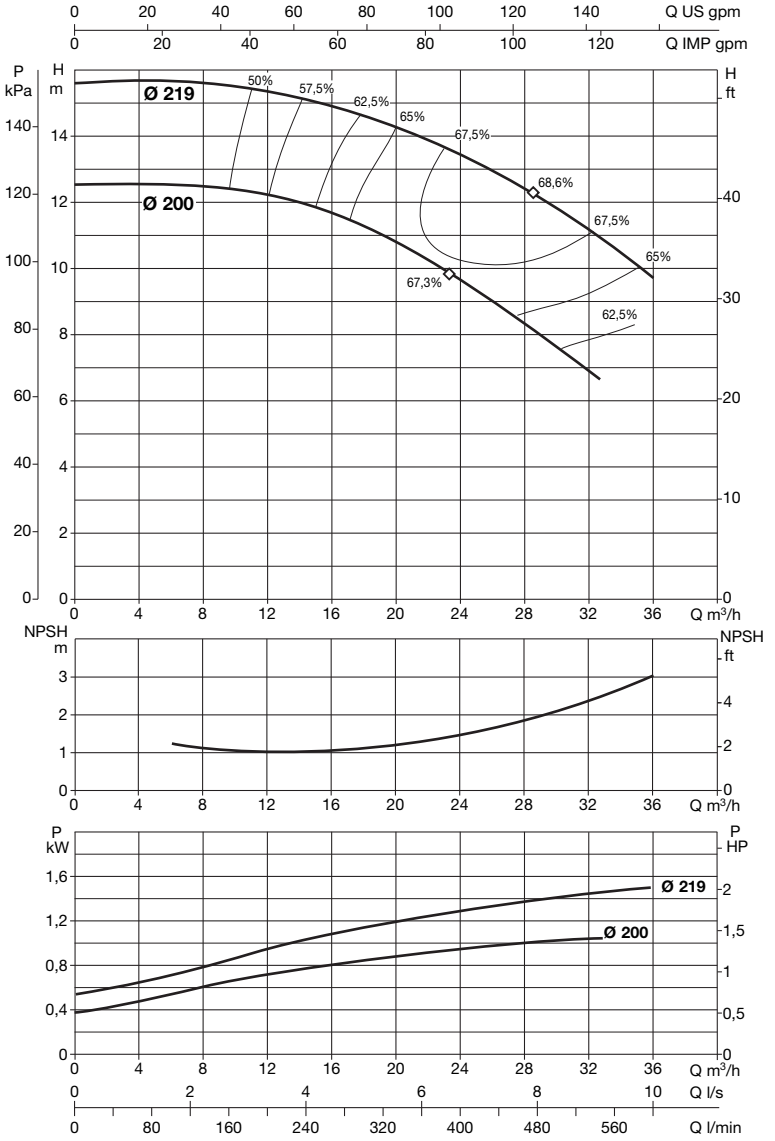
NKM-G 40-200

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 40-200/200/1,1/4	65	40	100	50	–	247	296	160	180	246	100	70	265	212	M10	–	100	28	620	370	480	0,110	64
NKM-G 40-200/219/1,5/4	65	40	100	50	–	272	296	160	180	246	100	70	265	212	M10	–	100	28	620	370	480	0,110	66

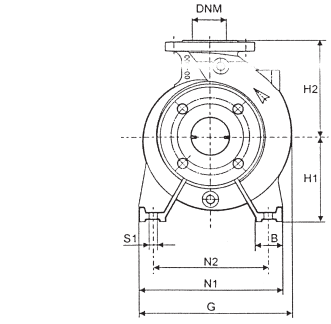
MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-G 40-200/200/1,1/4	MEC 90 S	230/400 V	1.1	1.5	4.7-2.7	H (m)	12.5	12.5	12.3	11.2	9.7	7.7	–
NKM-G 40-200/219/1,5/4	MEC 90 L	230/400 V	1.5	2	6.2-3.6		15.6	15.6	15.3	14.7	13.4	11.8	9.8

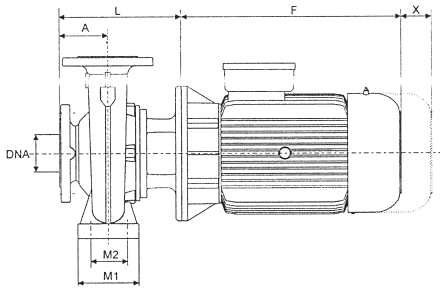
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

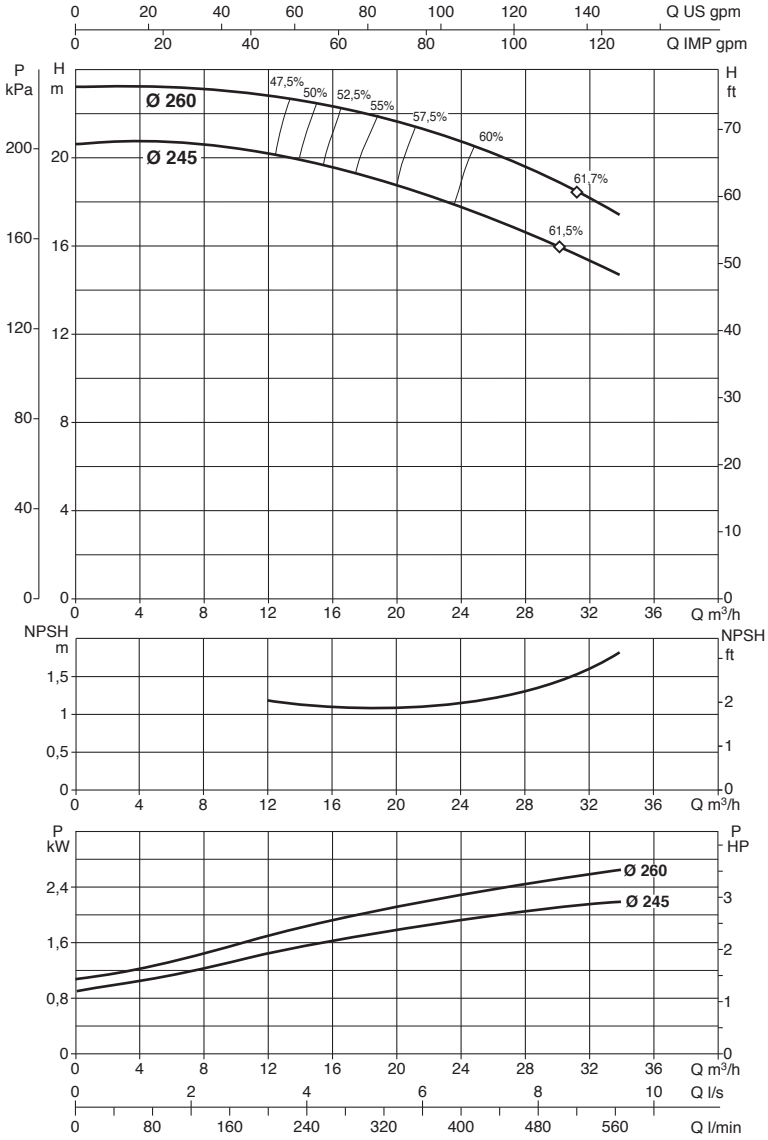
NKM-G 40-250

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 40-250/245/ 2,2 /4	65	40	100	65	–	301	336	180	225	274	125	95	320	250	M10	–	100	28	670	420	540	0,152	85
NKM-G 40-250/260/ 3 /4	65	40	100	65	–	301	336	180	225	274	125	95	320	250	M10	–	100	28	670	420	540	0,152	89

MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-G 40-250/245/ 2,2 /4	MEC 100 L	230/400 V	2.2	3	9.3-5.4	H (m)	20.6	20.5	20.1	19.2	17.8	16	–
NKM-G 40-250/260/ 3 /4	MEC 100 L	400 V ∅	3	4	6.8		23.3	23.1	22.8	22.2	20.8	19	–

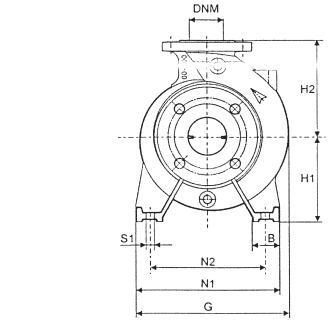
DAB PUMPS reserve the right to make modifications without prior notice

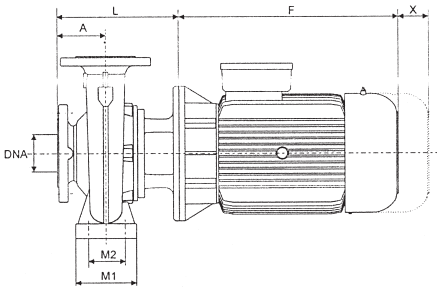
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

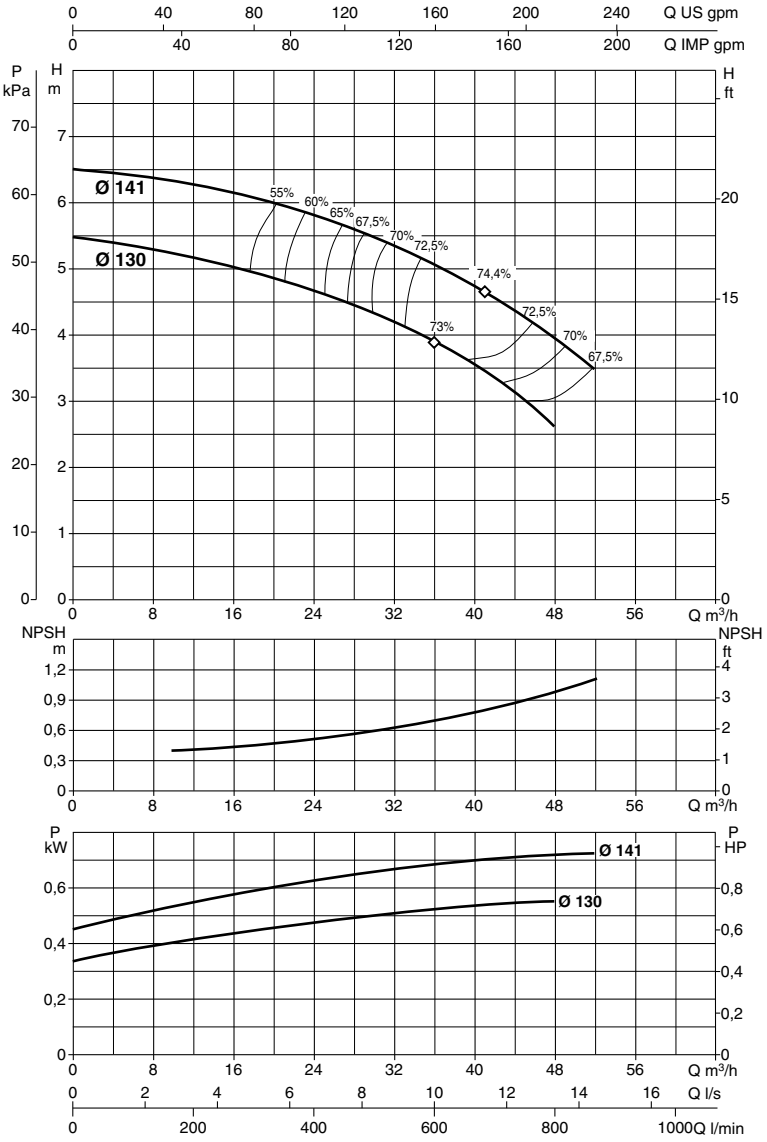
NKM-G 50-125

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 50-125/130/ 0.55/4	65	50	100	50	–	234	250	132	160	246	100	70	240	190	M10	–	100	28	620	370	480	0,110	45
NKM-G 50-125/141/ 0.75/4	65	50	100	50	–	234	250	132	160	246	100	70	240	190	M10	–	100	28	620	370	480	0,110	51

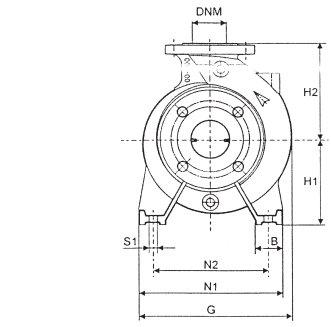
MODEL	ELECTRICAL DATA					HYDRAULIC DATA								
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	18	24	30	36	42	48
						l/min	0	200	300	400	500	600	700	800
NKM-G 50-125/130/ 0.55/4	MEC 71	230/400 V	0.55	0.75	2.9-1.7	H (m)	5.5	5.2	5	4.7	4.3	3.9	3.3	2.6
NKM-G 50-125/141/ 0.75/4	MEC 80	230/400 V	0.75	1	3.8-2.2		6.5	6.3	6.1	5.8	5.5	5	4.5	3.9

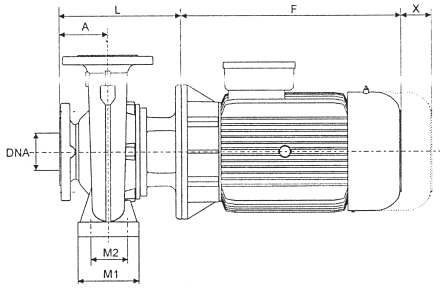
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

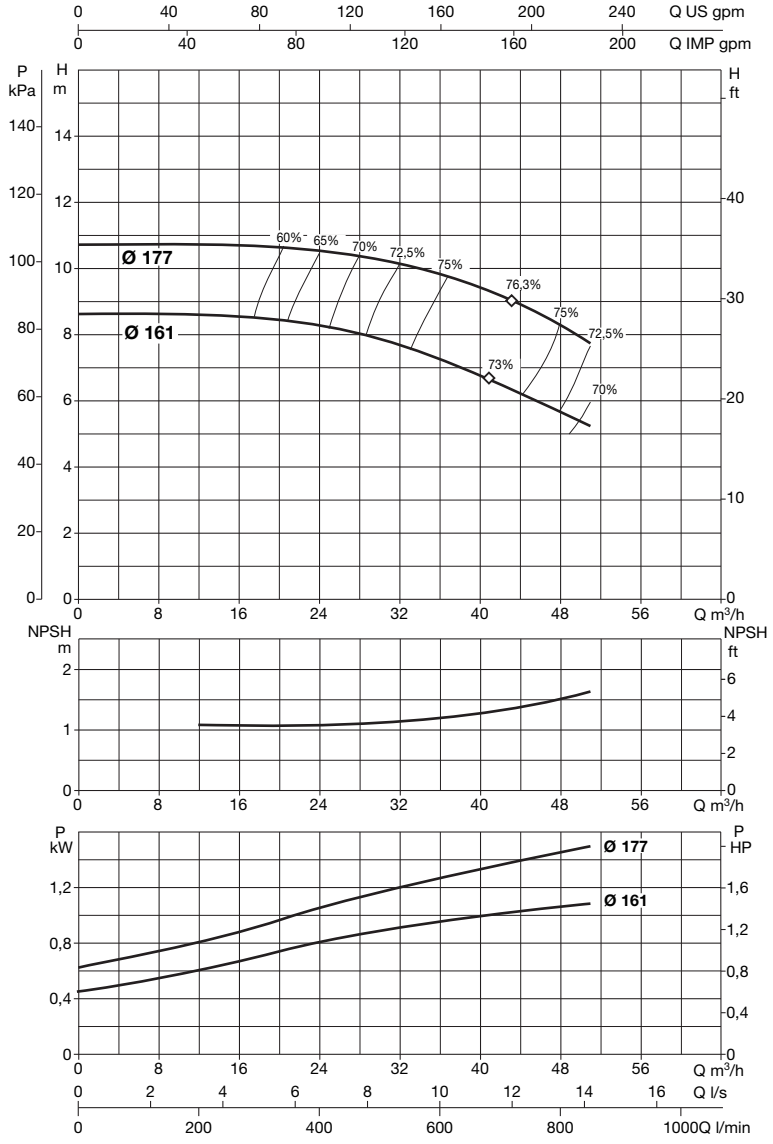
NKM-G 50-160

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 50-160/161/1.1 /4	65	50	100	50	–	247	282	160	180	274	100	70	265	212	M10	–	100	28	620	370	480	0,110	58
NKM-G 50-160/177/1,5 /4	65	50	100	50	–	272	282	160	180	274	100	70	265	212	M10	–	100	28	620	370	480	0,110	60

MODEL	ELECTRICAL DATA					HYDRAULIC DATA								
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	18	24	30	36	42	48
						l/min	0	200	300	400	500	600	700	800
NKM-G 50-160/161/1.1 /4	MEC 90 S	230/400 V	1.1	1.5	4.7-2.7	H (m)	8.6	8.3	8.5	8.2	7.8	7.3	6.7	5.7
NKM-G 50-160/177/1,5 /4	MEC 90 L	230/400 V	1.5	2	6.2-3.6		10.7	10.7	10.7	10.5	10.2	9.8	9.2	8.3

DAB PUMPS reserve the right to make modifications without prior notice

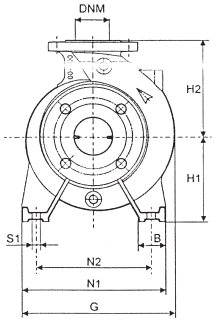
DAB PUMP PERFORMANCE

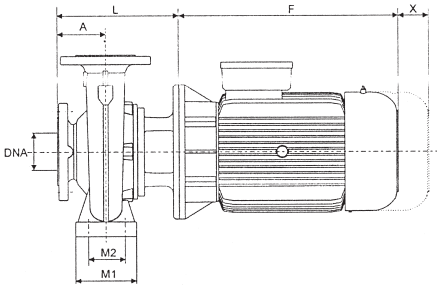
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

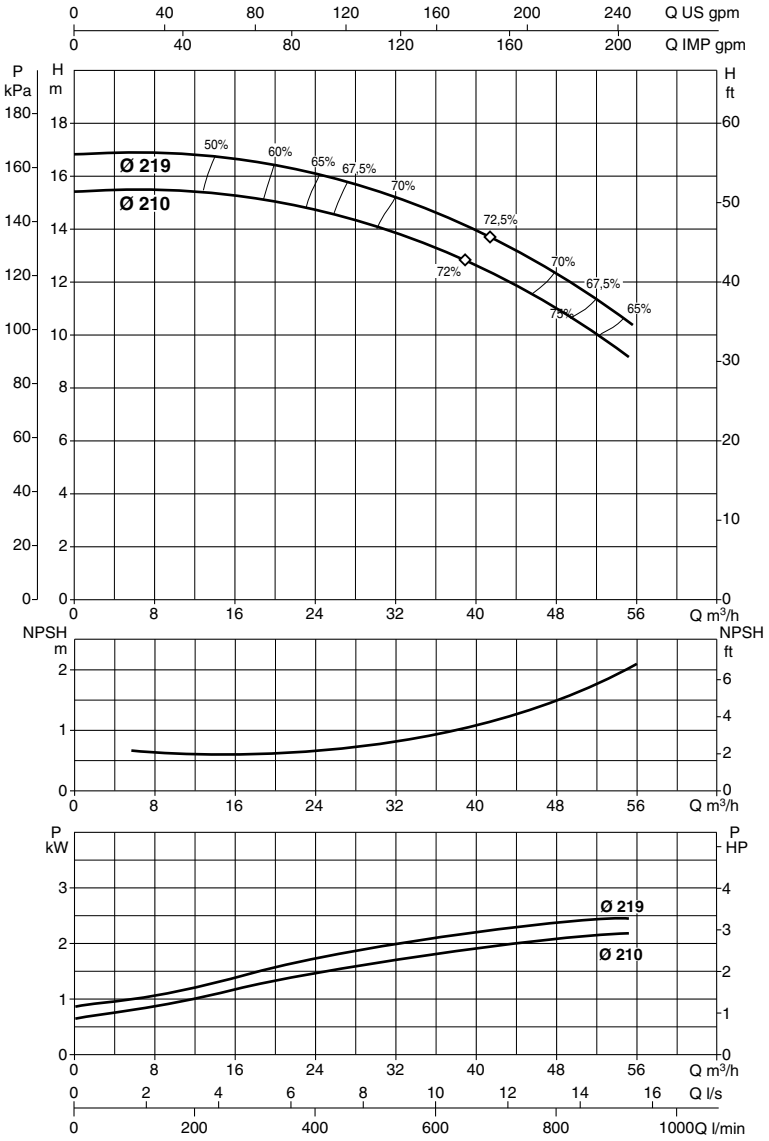
NKM-G 50-200

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 50-200/210/ 2,2 /4	65	50	100	50	–	301	302	160	200	274	100	70	265	212	M10	–	100	28	670	420	540	0,152	79
NKM-G 50-200/219/ 3 /4	65	50	100	50	–	301	302	160	200	274	100	70	265	212	M10	–	100	28	670	420	540	0,152	81

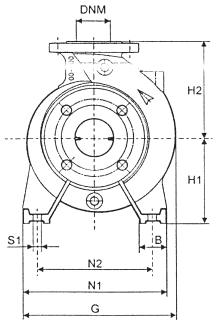
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	18	24	30	36	42	48	54
						l/min	0	200	300	400	500	600	700	800	900
NKM-G 50-200/210/ 2,2 /4	MEC 100 L	230/400 V	2.2	3	9.3-5.4	H (m)	15.3	15.3	15.2	14.8	14	13.3	12.1	10.8	9.4
NKM-G 50-200/219/ 3 /4	MEC 100 L	400 V ∅	3	4	6.8		16.8	16.8	16.5	16.1	15.5	14.6	13.6	12.4	10.9

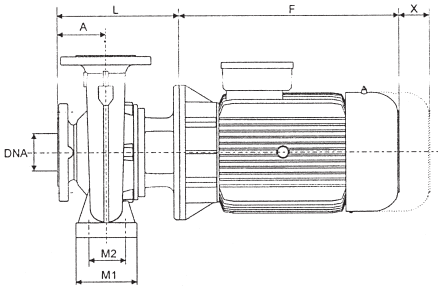
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

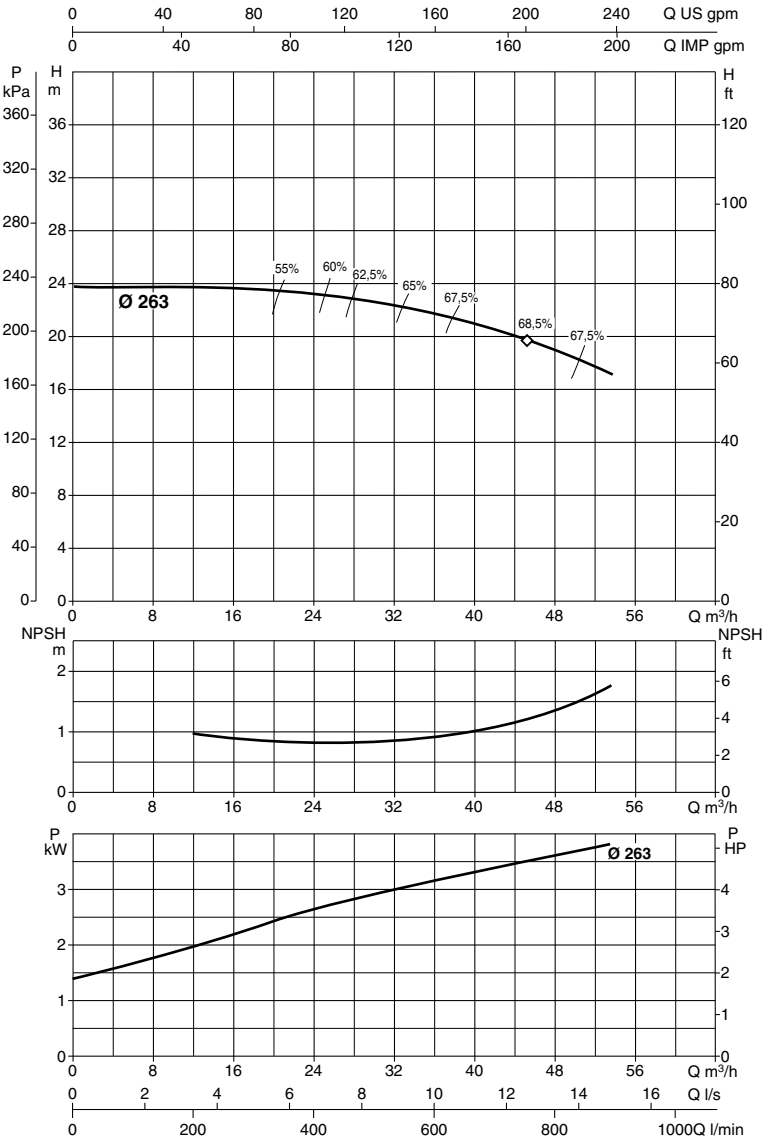
NKM-G 50-250

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 50-250/263/ 4 /4	65	50	100	65	–	301	343	180	225	274	125	95	320	250	M10	–	100	28	670	420	540	0,152	98

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	18	24	30	36	42	48	54
						Q l/min	0	200	300	400	500	600	700	800	900
NKM-G 50-250/263/ 4 /4	MEC 112 M	400 V ∅	4	5.5	8.5	H (m)	23.8	23.8	23.8	23.4	22.7	21.6	20.4	19	17.1

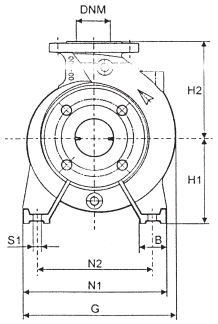
DAB PUMPS reserve the right to make modifications without prior notice

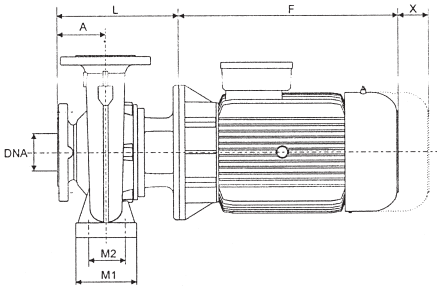
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

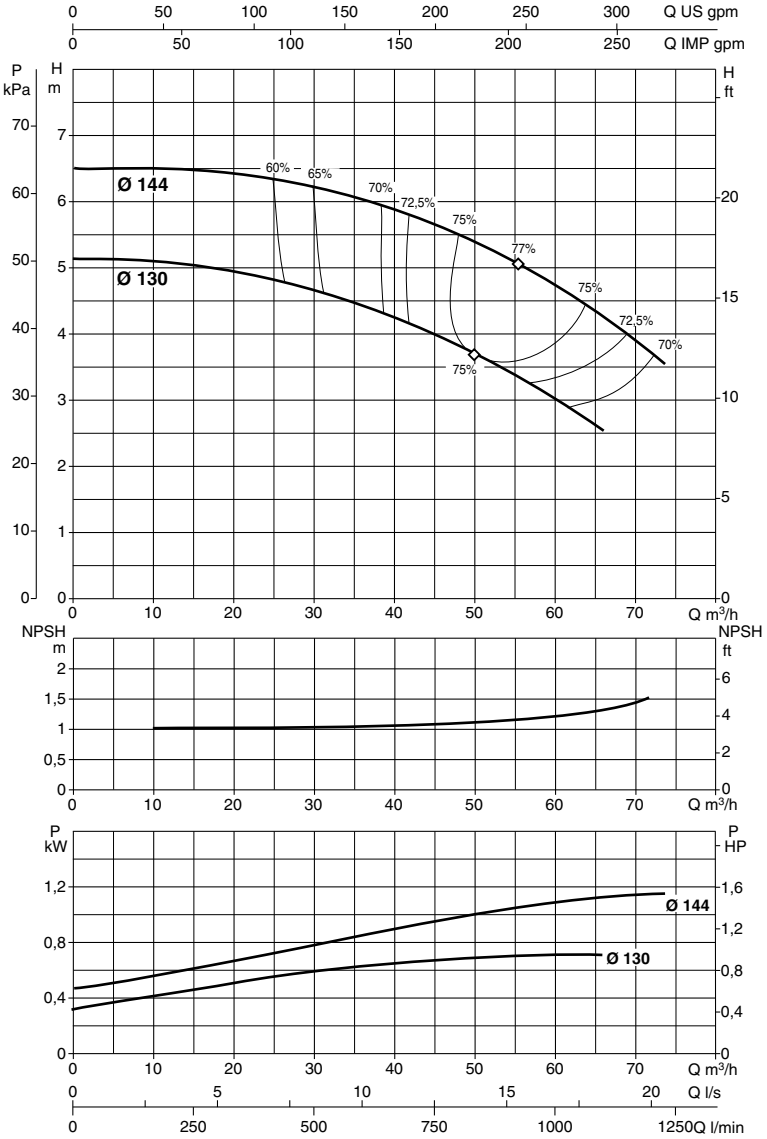
NKM-G 65-125

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 65-125/130/ 0.75/4	80	65	100	65	–	234	286	160	180	246	125	95	280	212	M10	–	100	28	620	370	480	0,110	55
NKM-G 65-125/144/ 1.1 /4	80	65	100	65	–	247	286	160	180	246	125	95	280	212	M10	–	100	28	620	370	480	0,110	61

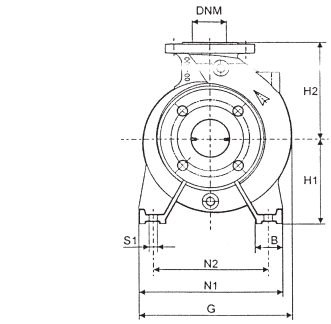
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	18	30	36	42	54	60	66	78
						l/min	0	300	500	600	700	900	1000	1100	1300
NKM-G 65-125/130/ 0.75/4	MEC 80	230/400 V	0.75	1	3.8-2.2	H (m)	5.1	4.8	4.7	4.4	4.2	3.4	3	2.5	–
NKM-G 65-125/144/ 1.1 /4	MEC 90 S	230/400 V	1.1	1.5	4.7-2.7		6.5	6.4	6.2	6	5.75	5.1	4.65	4.2	3.75

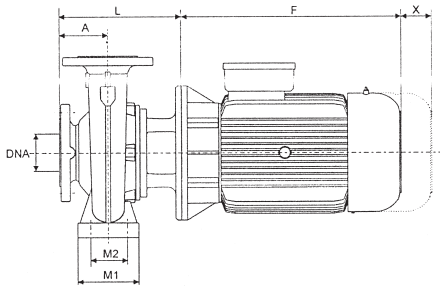
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

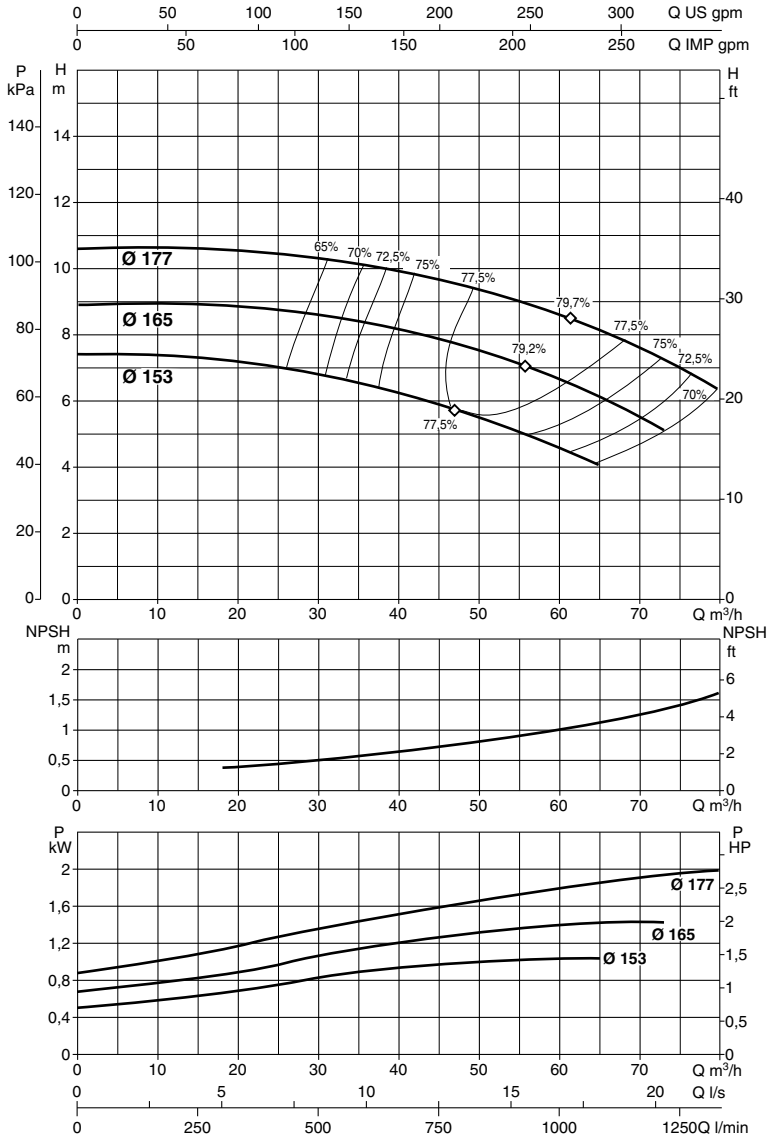
NKM-G 65-160

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 65-160/153/1,1 /4	80	65	100	65	–	247	302	160	200	246	125	95	280	212	M10	–	100	28	670	420	540	0,152	63
NKM-G 65-160/165/1,5 /4	80	65	100	65	–	272	302	160	200	246	125	95	280	212	M10	–	100	28	670	420	540	0,152	64
NKM-G 65-160/177/2,2 /4	80	65	100	65	–	301	302	160	200	274	125	95	280	212	M10	–	100	28	670	420	540	0,152	76

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	18	30	36	42	54	60	66	78
						Q l/min	0	300	500	600	700	900	1000	1100	1300
NKM-G 65-160/153/1,1 /4	MEC 90 S	230/400 V	1.1	1.5	4.7-2.7	H (m)	7.4	7.3	6.9	6.65	6.25	5.3	4.4	–	–
NKM-G 65-160/165/1,5 /4	MEC 90 L	230/400 V	1.5	2	6.2-3.6		8.9	8.8	8.6	8.3	8	7.15	6.6	6	–
NKM-G 65-160/177/2,2 /4	MEC 100 L	230/400 V	2.2	3	9.2-5.3		10.5	–	10.3	10.2	9.9	9.2	8.75	8.2	6.6

DAB PUMPS reserve the right to make modifications without prior notice

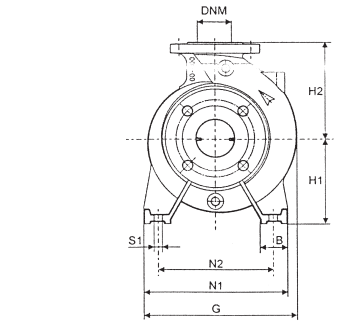
DAB PUMP PERFORMANCE

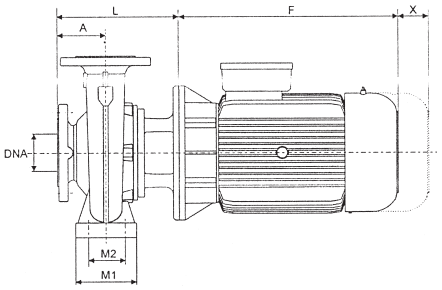
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

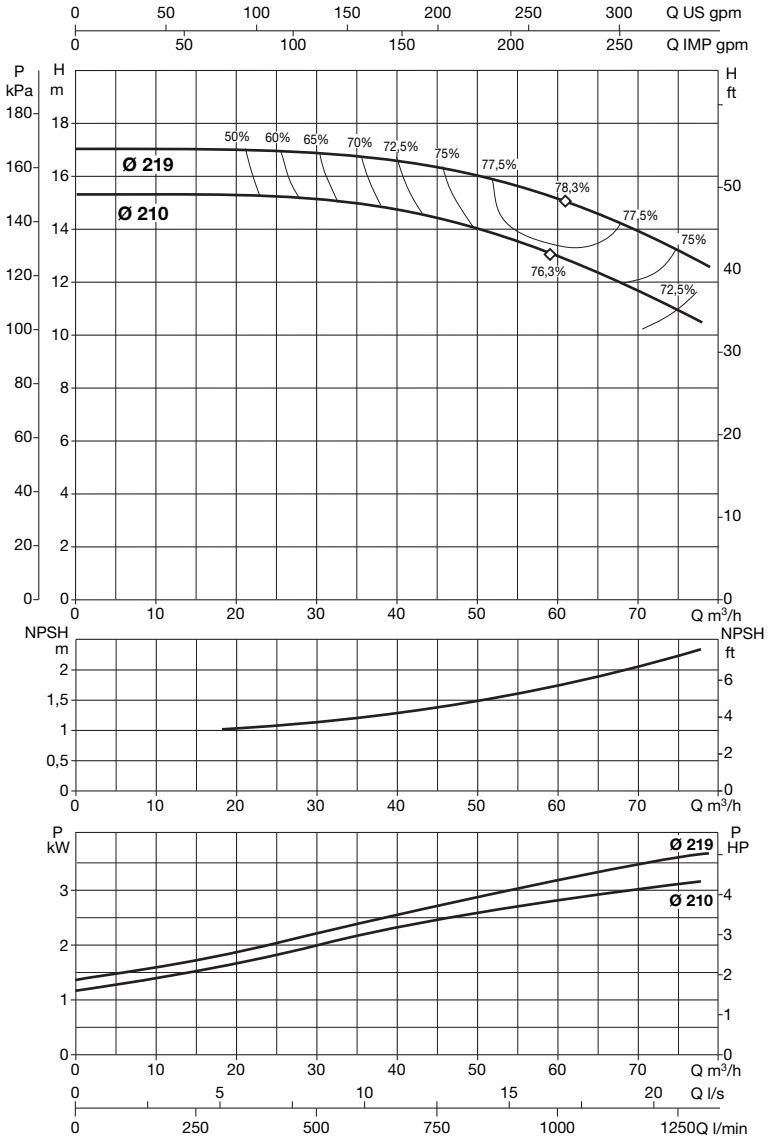
NKM-G 65-200

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 65-200/210/3 /4	80	65	100	65	–	301	333	180	225	274	125	95	320	250	M10	–	140	28	670	420	540	0,152	88
NKM-G 65-200/219/4 /4	80	65	100	65	–	301	333	180	225	274	125	95	320	250	M10	–	140	28	670	420	540	0,152	96

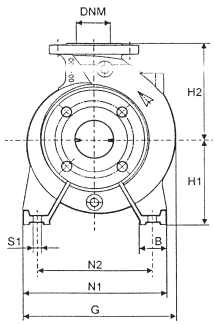
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	24	36	42	54	60	66	72	78
						Q l/min	0	400	600	700	900	1000	1100	1200	1300
NKM-G 65-200/210/3 /4	MEC 100 L	400 V ∅	3	4	6.8	H (m)	15.3	15.2	15	14.6	13.5	12.9	12.2	11.3	–
NKM-G 65-200/219/4 /4	MEC 112 M	400 V ∅	4	5.5	8.5		17	17	16.8	16.4	15.8	15.2	14.3	13.8	12.6

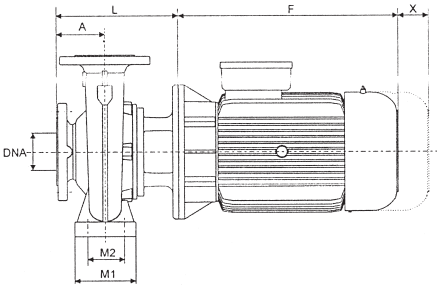
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

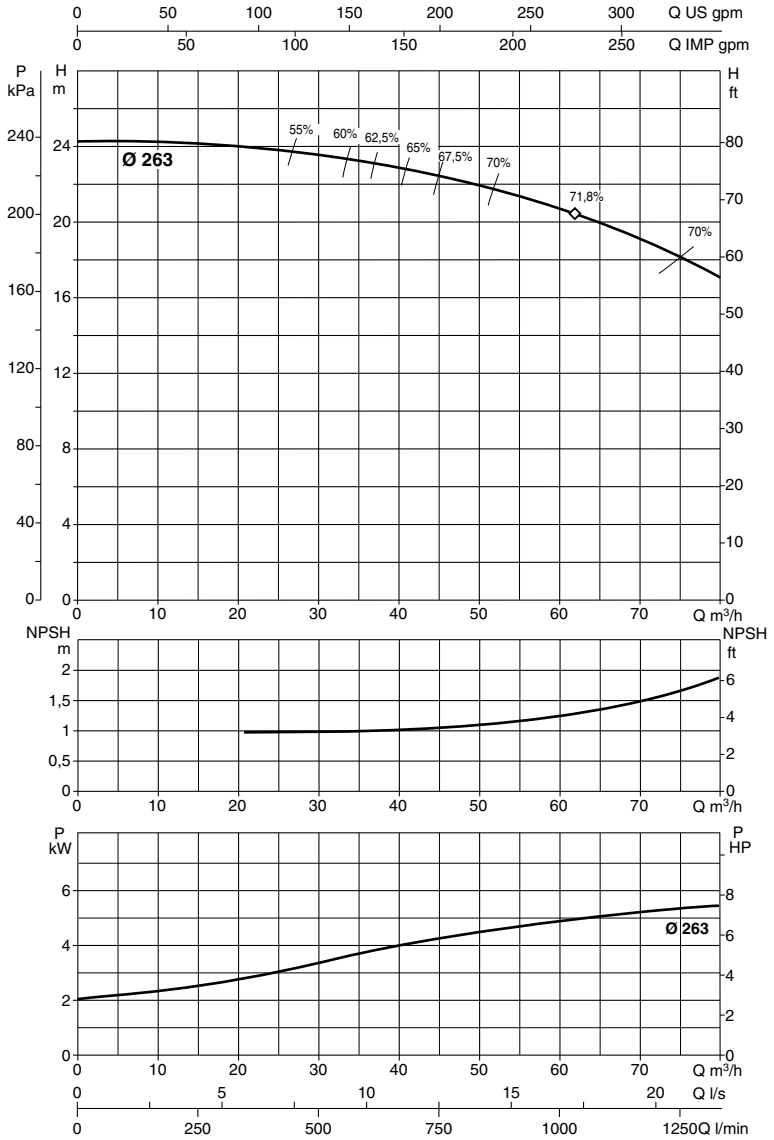
NKM-G 65-250

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 65-250/263/5,5 /4	80	65	100	80	–	390	370	200	250	343	160	120	360	280	M14	–	140	38	1030	530	640	0,349	159

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	24	30	36	42	48	54	66	78
						Q l/min	0	400	500	600	700	800	900	1100	1300
NKM-G 65-250/263/5,5 /4	MEC132 S	400 V ∅	5.5	7.5	11.3	H (m)	24.1	23.8	23.6	23.3	22.8	22.3	21.5	19.7	17.3

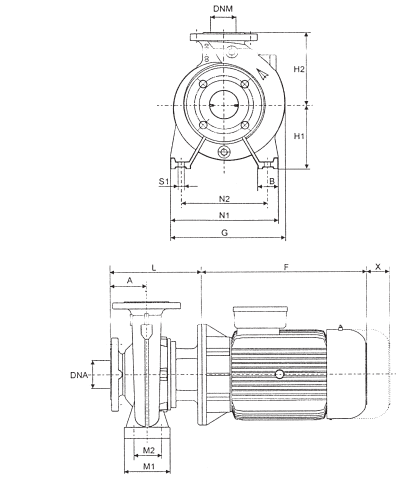
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

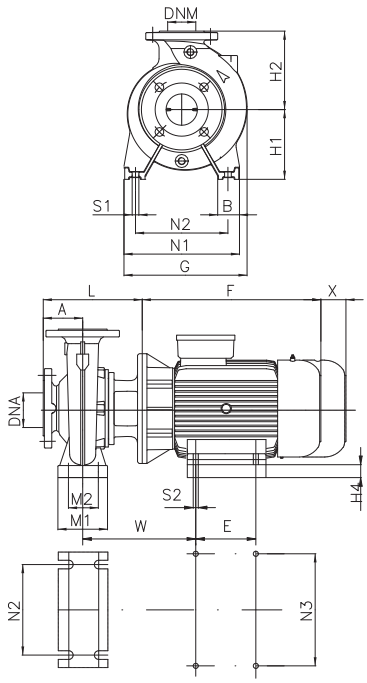
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-G 65-315

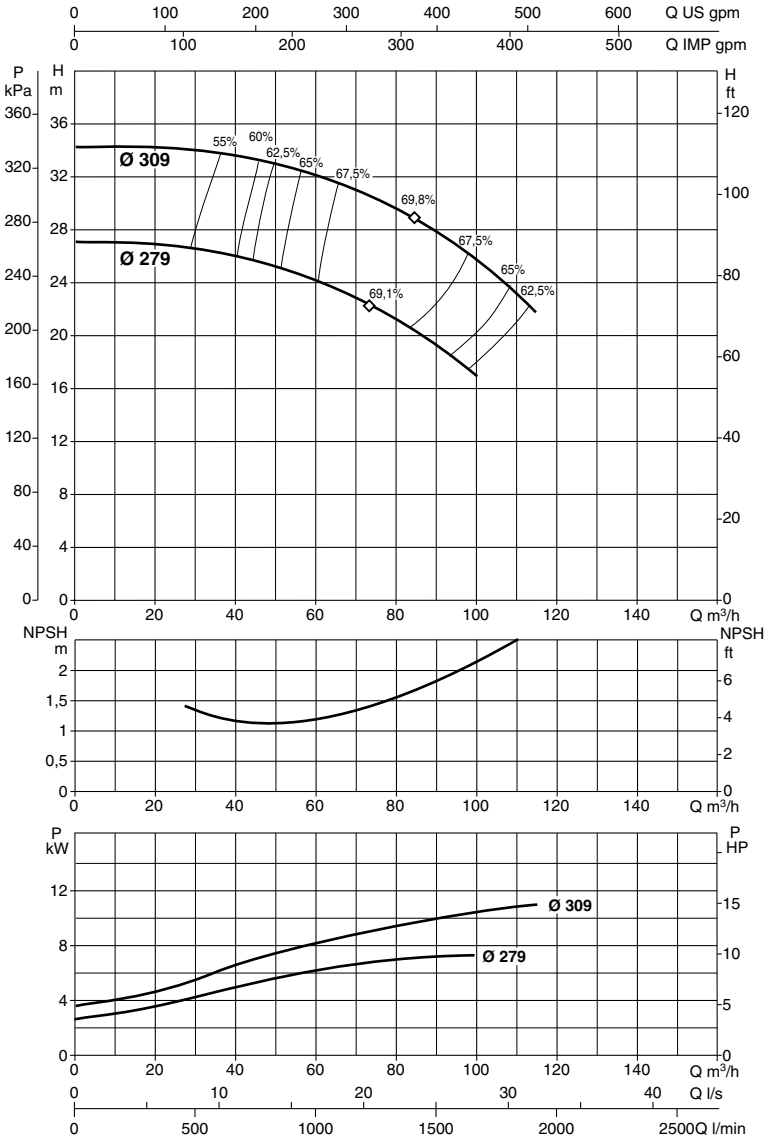
≅ 1450 1/min



Motor construction type: B5



Motor construction type: B3/B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	N3	S1	S2	W	X	H4	Ø (mm Mech. seal	PACKING DIMEN- A	B	H	Vol.	Weight Kg
NKM-G 65-315/279/ 7,5 /4	80	65	125	80	–	416	429	225	280	368	160	120	400	315	–	M14	–	–	140	–	38	1030	530	640	0,349	182
NKM-G 65-315/309/11 /4	80	65	125	80	210	460	429	225	280	398	160	120	400	315	254	M14	M12	402	140	65	38	1030	530	640	0,349	250

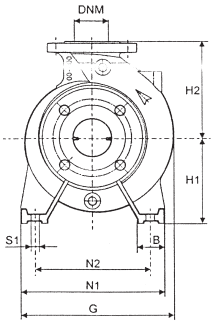
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	42	48	54	66	72	84	90	114
						Q l/min	0	700	800	900	1100	1200	1400	1500	1900
NKM-G 65-315/279/ 7,5 /4	MEC 132 M	400 V ∅	7.5	10	14.7	H (m)	27	26	25.5	25	23.6	22.7	20.2	19	–
NKM-G 65-315/309/11 /4	MEC 160 M	400 V ∅	11	15	22		34.2	33.2	33	32.5	31.5	30.7	29	28	21.7

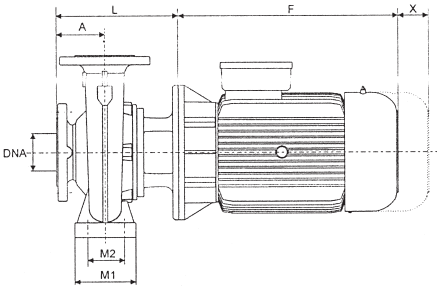
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

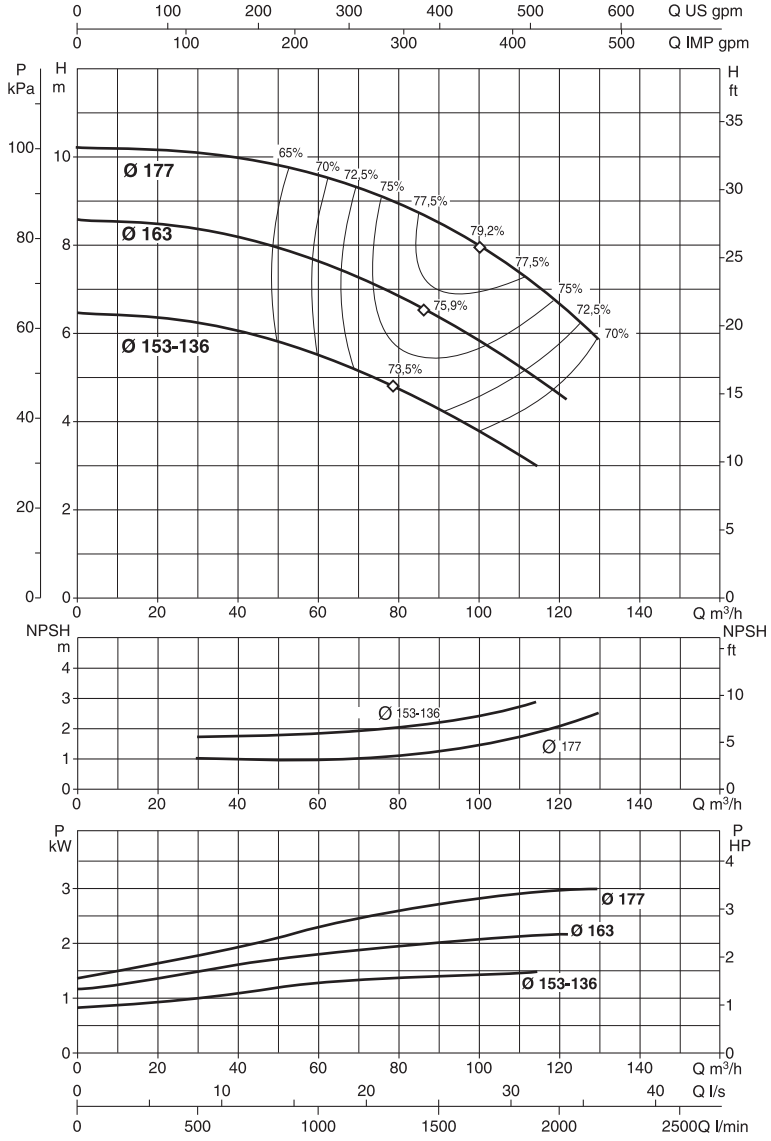
NKM-G 80-160

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 80-160/153-136/1.5/4	100	80	125	65	–	272	342	180	225	299	125	95	320	250	M10	–	140	28	670	420	540	0,152	83
NKM-G 80-160/163/ 2,2 /4	100	80	125	65	–	301	342	180	225	299	125	95	320	250	M10	–	140	28	670	420	540	0,152	83
NKM-G 80-160/177/ 3 /4	100	80	125	65	–	301	342	180	225	299	125	95	320	250	M10	–	140	28	670	420	540	0,152	87

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	30	42	54	66	78	90	114	120
						Q l/min	0	500	700	900	1100	1300	1500	1900	2000
NKM-G 80-160/153-136/1.5/4	MEC 90 L	230/400 V	1.5	2	6.2-3.6	H (m)	6.5	6.35	6.2	5.75	5.3	4.7	4.25	3	–
NKM-G 80-160/163/ 2,2 /4	MEC 100 L	230/400 V	2.2	3	9.3-5.4		8.65	8.5	8.3	7.9	7.4	6.9	6.3	4.9	4.6
NKM-G 80-160/177/ 3 /4	MEC 100 L	400 V ∅	3	4	6.8		10.2	10.2	10	9.75	9.5	9	8.6	7.2	6.7

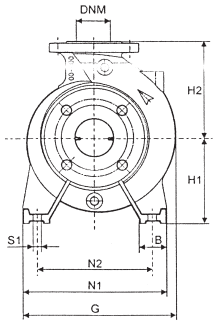
DAB PUMPS reserve the right to make modifications without prior notice

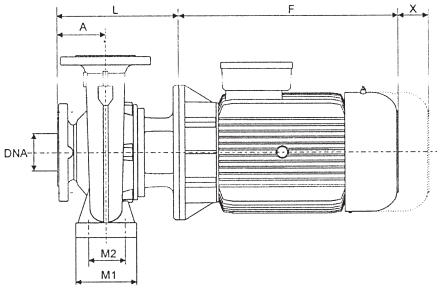
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

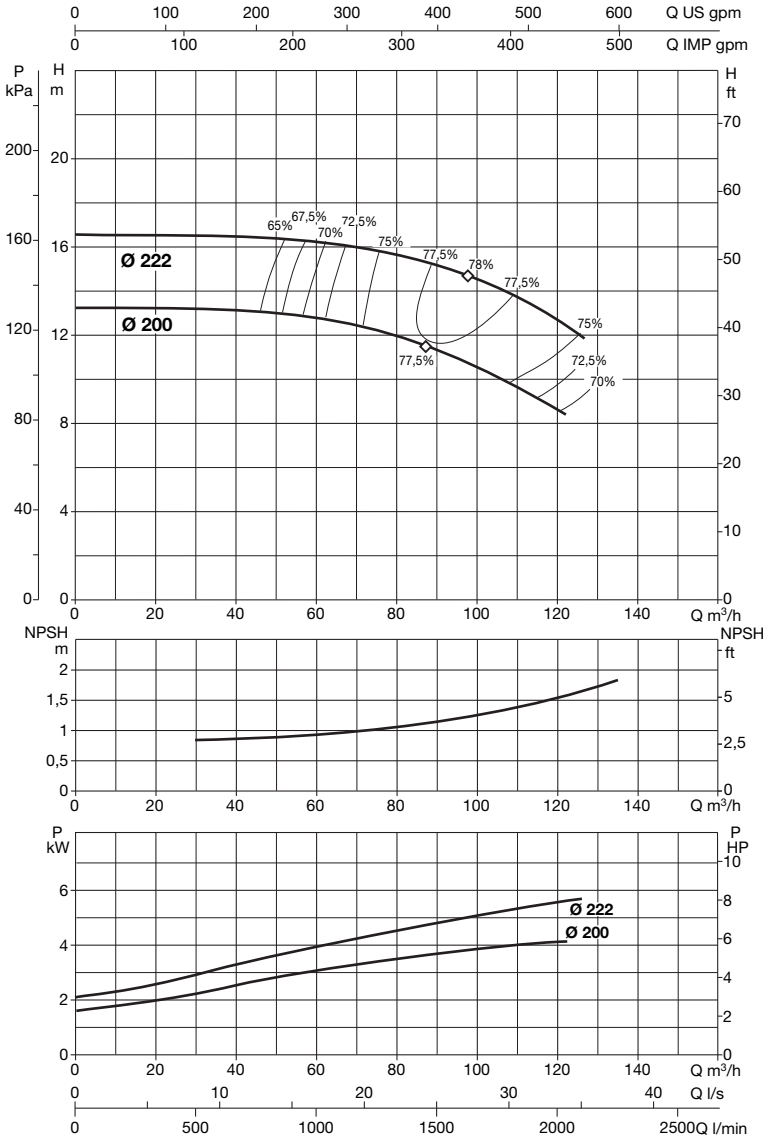
NKM-G 80-200

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G 80-200/200/ 4 /4	100	80	125	65	–	301	365	180	250	368	125	95	345	280	M10	–	140	38	1030	530	640	0,349	118
NKM-G 80-200/222/ 5,5 /4	100	80	125	65	–	390	365	180	250	368	125	95	345	280	M10	–	140	38	1030	530	640	0,349	147

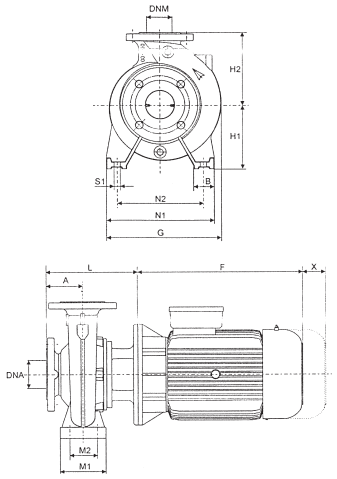
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	42	54	66	72	78	90	114	120
						Q l/min	0	700	900	1100	1200	1300	1500	1900	2000
NKM-G 80-200/200/ 4 /4	MEC 112 M	400 V ∅	4	5.5	8.5	H (m)	13.2	13.1	12.9	12.7	12.4	12	11.3	9.3	8.7
NKM-G 80-200/222/ 5,5 /4	MEC 132 S	400 V ∅	5.5	7.5	11.3		16.6	16.5	16.4	16.1	16	15.7	15	13.3	12.7

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

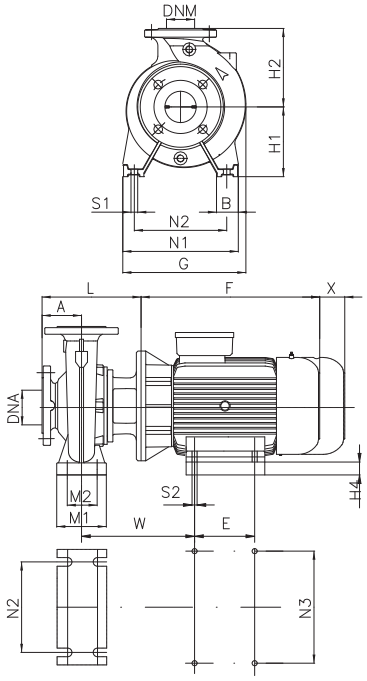
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-G 80-250

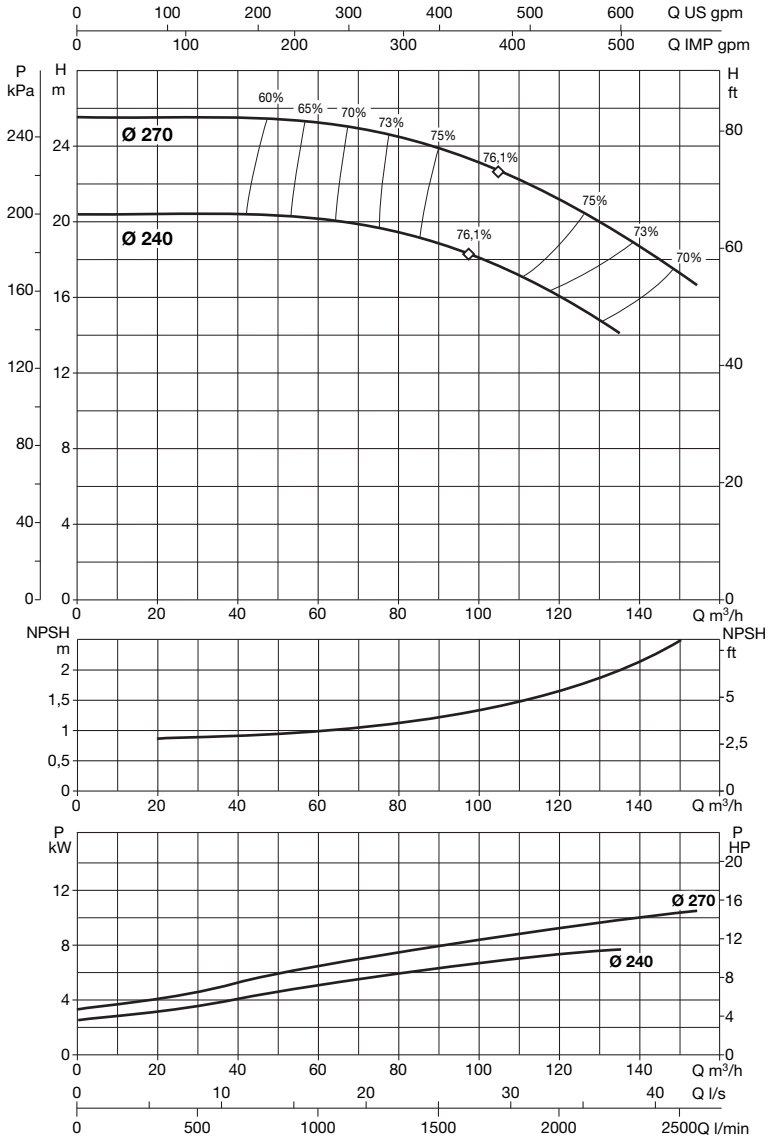
≅ 1450 1/min



Motor construction type: B5



Motor construction type: B3/B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	N3	S1	S2	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENS. A	B	H	Vol.	Weight Kg
NKM-G 80-250/240/7,5/4	100	80	125	80	–	416	410	200	280	368	160	120	400	315	–	M14	–	–	140	–	38	1030	530	640	0,349	172
NKM-G 80-250/270/11 /4	100	80	125	80	210	460	410	200	280	398	160	120	400	315	254	M14	M12	381	140	40	38	1030	530	640	0,349	224

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	42	54	66	72	78	90	114	120
						Q l/min	0	700	900	1100	1200	1300	1500	1900	2000
NKM-G 80-250/240/7,5/4	MEC 132 M	400 V ∅	7.5	10	14.7	H (m)	20.4	20.3	20.2	20	19.9	19.8	19	16.7	16
NKM-G 80-250/270/11 /4	MEC 160 M	400 V ∅	11	15	22		25.6	25.5	25.4	25	24.8	24.6	24	21.5	21

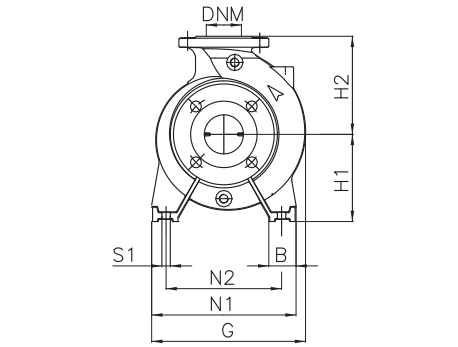
DAB PUMPS reserve the right to make modifications without prior notice

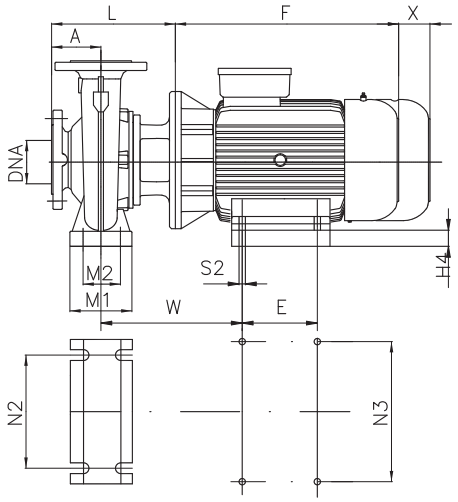
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

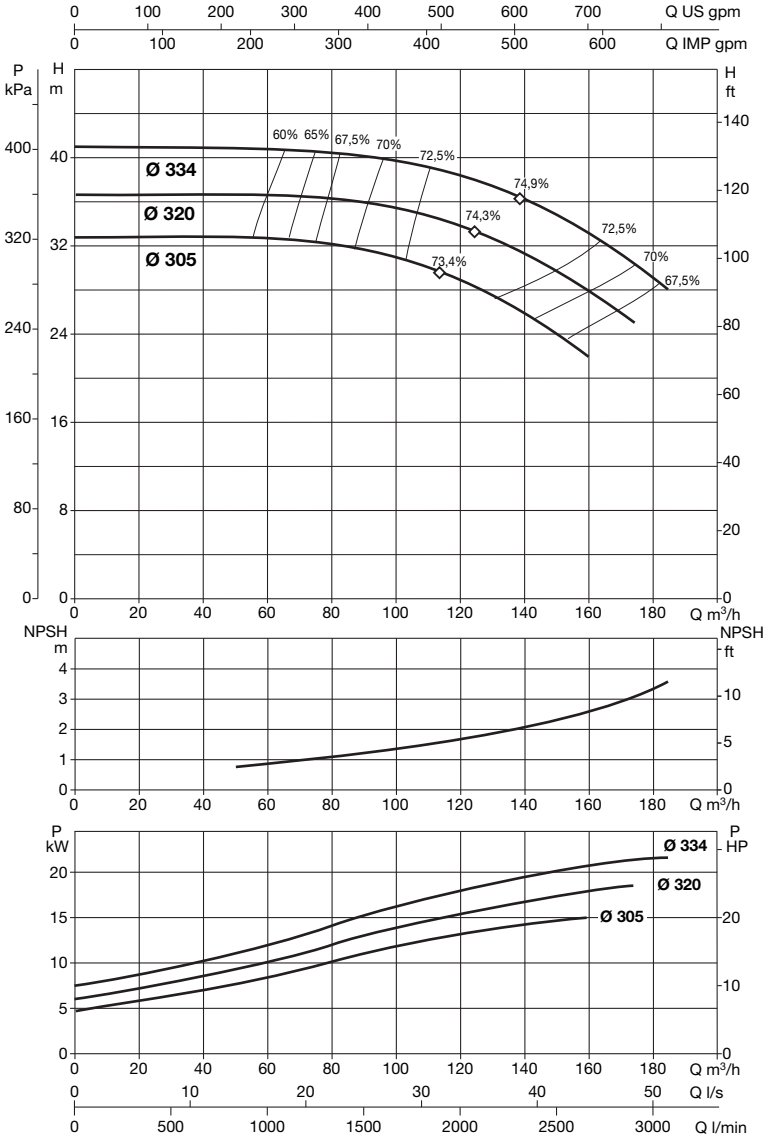
NKM-G 80-315

≅ 1450 1/min





Motor construction type: B3/B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	N3	S1	S2	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENS. A	B	H	Vol.	Weight Kg
NKM-G 80-315/305/15 /4	100	80	125	80	254	540	460	250	315	398	160	120	400	315	254	M14	M12	402	140	90	38	1130	580	740	0,485	281
NKM-G 80-315/320/18,5 /4	100	80	125	80	241	580	460	250	315	398	160	120	400	315	279	M14	M12	429	140	70	38	1130	580	740	0,485	315
NKM-G 80-315/334/22 /4	100	80	125	80	279	580	460	250	315	398	160	120	400	315	279	M14	M12	415	140	70	38	1130	580	740	0,485	335

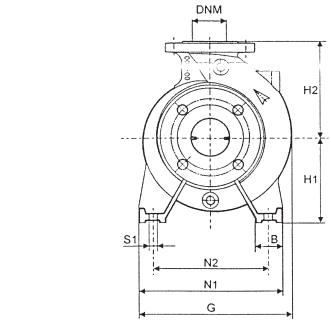
MODEL	ELECTRICAL DATA					HYDRAULIC DATA								
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	54	66	78	84	90	114	150	180
						Q l/min	0	900	1100	1300	1400	1500	1900	2500	3000
NKM-G 80-315/305/15 /4	MEC 160 L	400 V ∅	15	20	29	H (m)	32.9	32.7	32.6	32.4	32	31.6	29.5	24	–
NKM-G 80-315/320/18,5 /4	MEC 180 M	400 V ∅	18.5	25	35		36.8	36.7	36.6	36.5	36.4	36.1	34.5	29.5	–
NKM-G 80-315/334/22 /4	MEC 180 L	400 V ∅	22	30	41		41	40.8	40.7	40.6	40.5	40.2	39	34.8	29

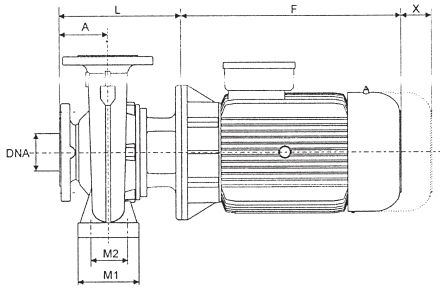
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

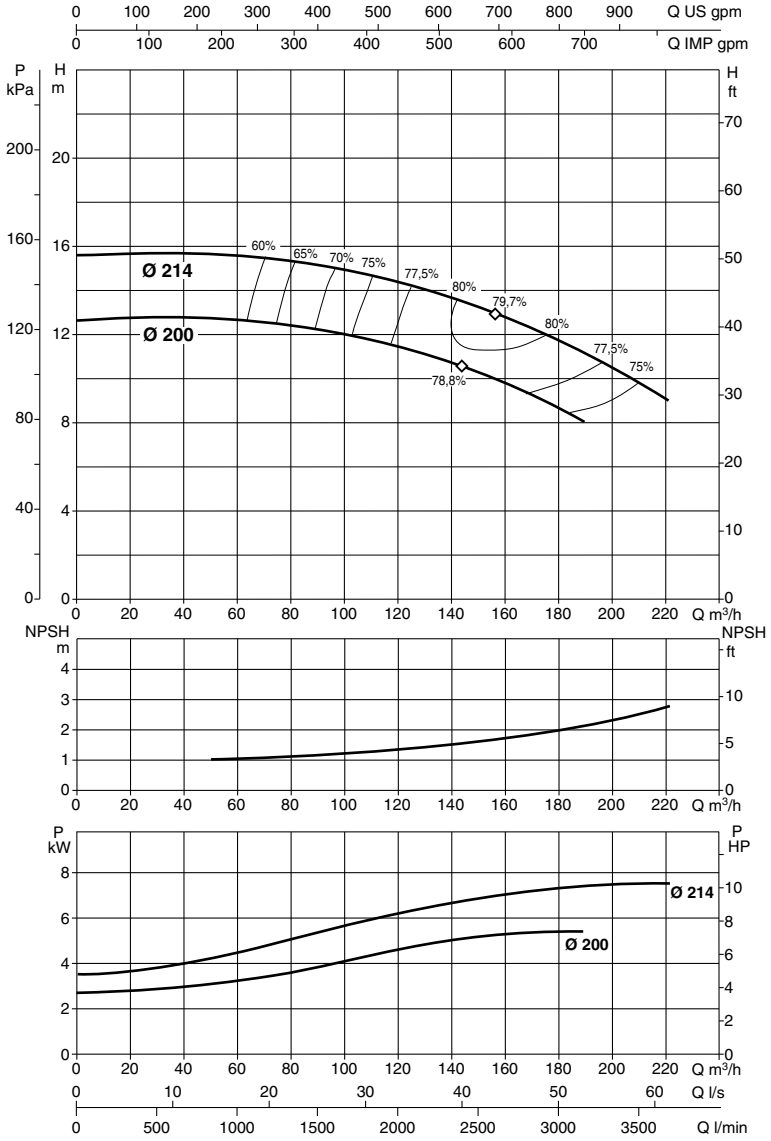
NKM-G 100-200

≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-G100-200/200/ 5.5 /4	125	100	125	80	–	390	392	200	280	368	160	120	360	280	M14	–	140	38	1030	530	640	0,349	160
NKM-G100-200/214/ 7.5 /4	125	100	125	80	–	416	392	200	280	368	160	120	360	280	M14	–	140	38	1030	530	640	0,349	168

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	60	66	78	84	90	114	180	210
						Q l/min	0	100	1100	1300	1400	1500	1900	3000	3500
NKM-G100-200/200/ 5.5 /4	MEC 132 S	400 V ∅	5.5	7.5	11.3	H (m)	12.7	12.6	12.6	12.5	12.4	12.3	11.5	8.5	–
NKM-G100-200/214/ 7.5 /4	MEC 132 M	400 V ∅	7.5	10	14.7		15.6	15.4	15.4	15.2	15.1	15	14.5	11.6	9.8

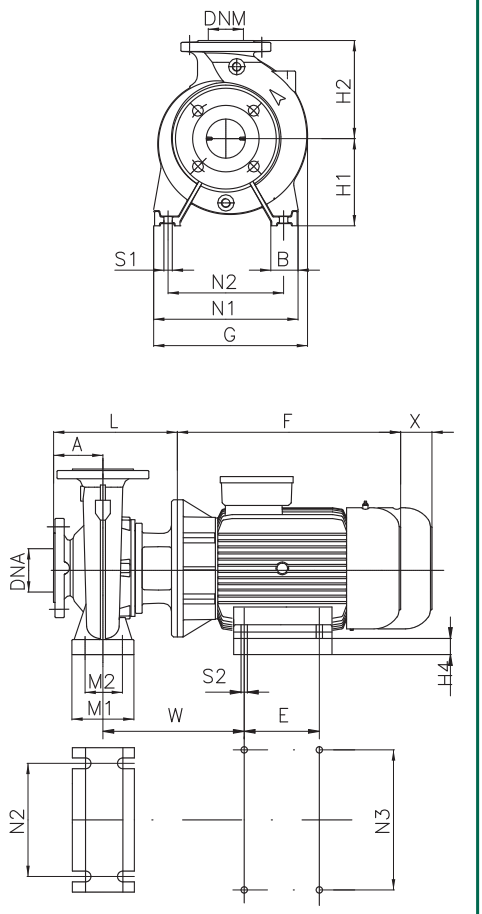
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

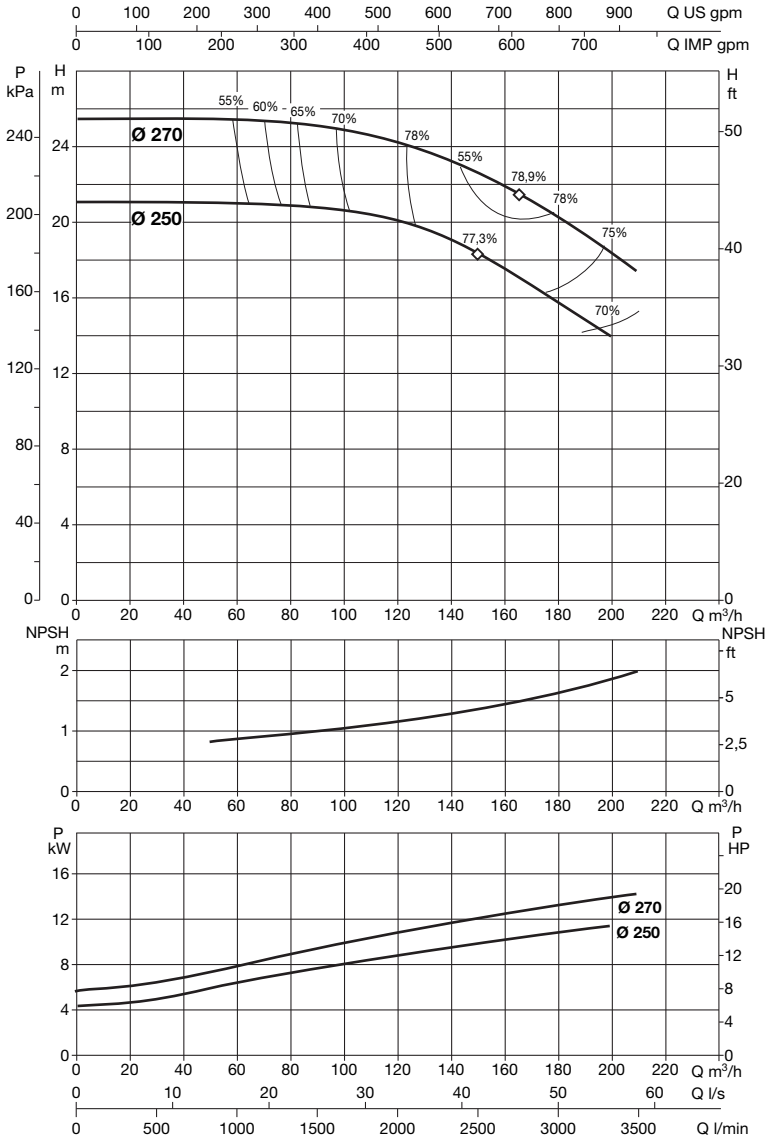
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-G 100-250

≅ 1450 1/min



Motor construction type: B3/B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	N3	S1	S2	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENS. A	B	H	Vol.	Weight Kg
NKM-G100-250/250/11 /4	125	100	140	80	210	460	424	225	280	413	160	120	400	315	254	M14	M12	381	140	65	38	1030	530	640	0,349	232
NKM-G100-250/270/15 /4	125	100	140	80	254	540	424	225	280	413	160	120	400	315	254	M14	M12	381	140	65	38	1030	530	640	0,485	255

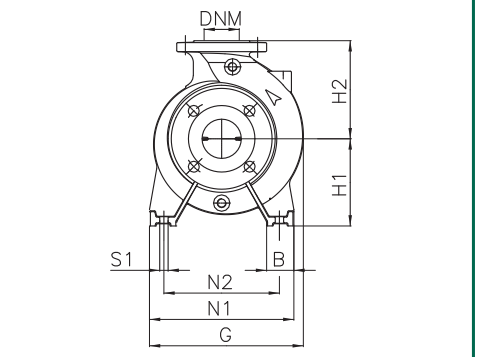
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	60	78	84	90	114	150	180	210
						Q l/min	0	100	1300	1400	1500	1900	2500	3000	3500
NKM-G100-250/250/11 /4	MEC 160 M	400 V ∅	11	15	22	H (m)	21.1	21	21	21	21	20	18	16	–
NKM-G100-250/270/15 /4	MEC 160 L	400 V ∅	15	20	29		25.5	25.5	25.3	25.1	25.1	24.5	22.5	20.5	17.5

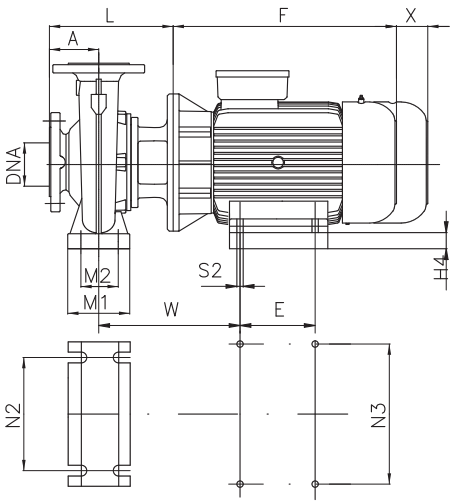
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

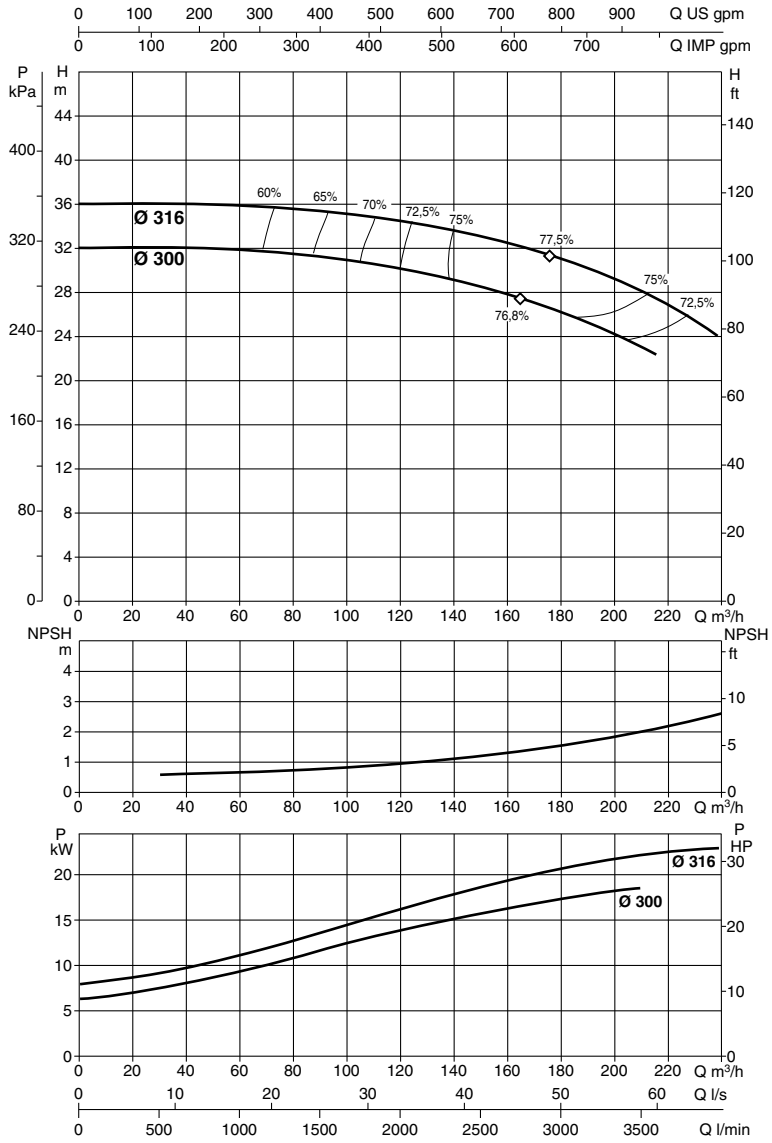
NKM-G 100-315

≅ 1450 1/min





Motor construction type: B3/B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	N3	S1	S2	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENS. A	B	H	Vol.	Weight Kg
NKM-G100-315/300/18.5 /4	125	100	140	80	241	580	478	250	315	413	160	120	400	315	279	M14	M12	529	140	70	38	1030	530	640	0,485	297
NKM-G100-315/316/22 /4	125	100	140	80	279	580	478	250	315	413	160	120	400	315	279	M14	M12	415	140	70	38	1030	530	640	0,485	309

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	90	102	114	120	150	180	210	240
						Q l/min	0	1500	1700	1900	2000	2500	3000	3500	4000
NKM-G100-315/300/18.5 /4	MEC 180 M	400 V ∅	18.5	25	35	H (m)	32	31.5	31.4	31	30.5	28.8	26	23	–
NKM-G100-315/316/22 /4	MEC 180 L	400 V ∅	22	30	41		36	35.5	35.2	35	34.6	33.2	31	28	24

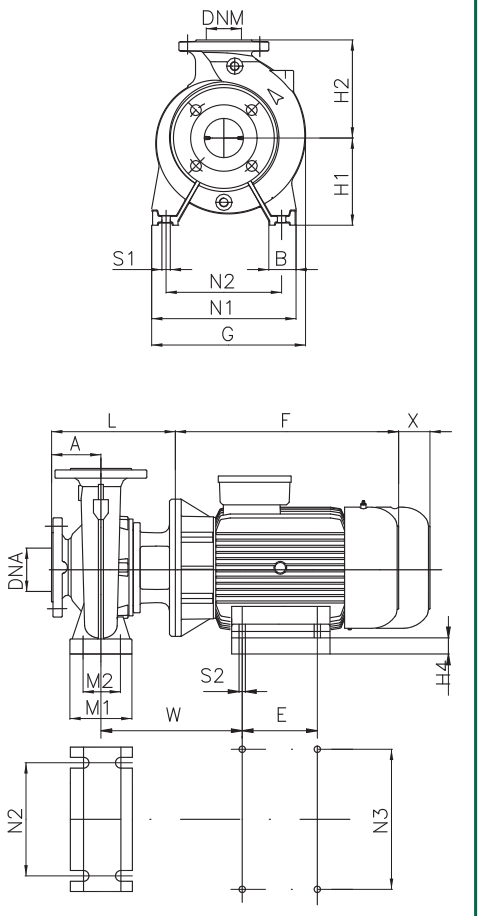
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

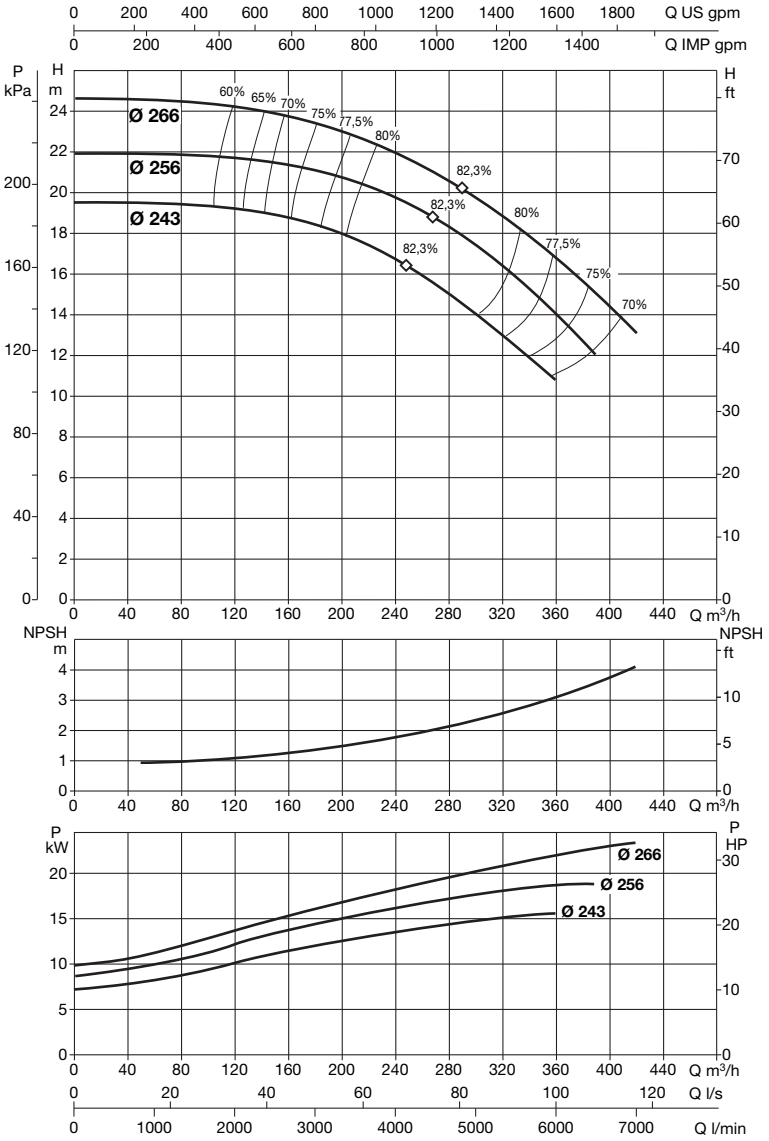
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-G 125-250

≅ 1450 1/min



Motor construction type: B3/B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	N3	S1	S2	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENS. A	B	H	Vol.	Weight Kg
NKM-G125-250/243/15 /4	150	125	140	80	254	540	472	250	355	413	160	120	400	315	254	M14	M12	381	140	90	38	1130	580	740	0,485	292
NKM-G125-250/256/18,5 /4	150	125	140	80	241	580	472	250	355	413	160	120	400	315	279	M14	M12	394	140	70	38	1130	580	740	0,485	330
NKM-G125-250/266/22 /4	150	125	140	80	279	580	472	250	355	413	160	120	400	315	279	M14	M12	394	140	70	38	1130	580	740	0,485	346

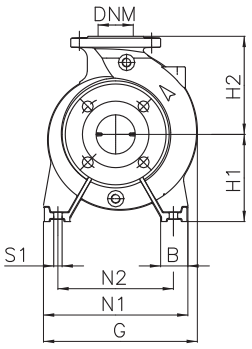
MODEL	ELECTRICAL DATA					HYDRAULIC DATA													
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	102	114	120	150	180	210	240	270	300	330	360	390
						Q l/min	0	1700	1900	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500
NKM-G125-250/243/15 /4	MEC 160 L	400 V ∅	15	20	29	H (m)	19.5	19.3	19.3	19.2	19.2	18.7	17.8	16.8	15.5	14.1	12.5	10.9	
NKM-G125-250/256/18,5 /4	MEC 180 M	400 V ∅	18.5	25	35		21.9	21.8	21.8	21.7	21.6	21.3	20.5	19.5	18.5	17.2	15.6	14	12
NKM-G125-250/266/22 /4	MEC 180 L	400 V ∅	22	30	41		24.6	24.4	24.2	24.1	24	23.5	22.9	22	21	19.8	18.5	16.7	15

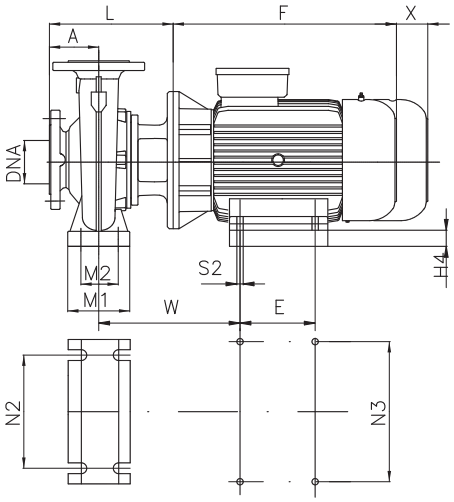
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

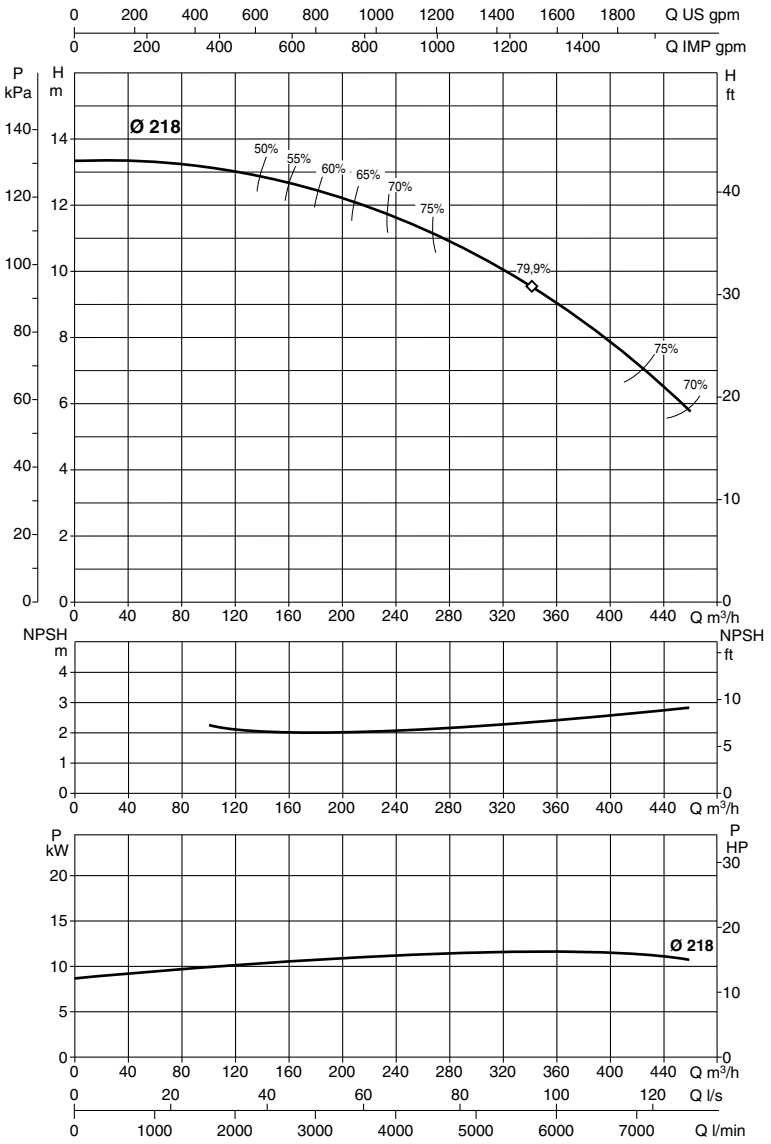
NKM-G 150-200

≅ 1450 1/min





Motor construction type: B3/B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	N3	S1	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENS. A	B	H	Vol.	Weight Kg
NKM-G150-200/218/11 /4	200	150	160	100	210	503	593	280	400	433	200	150	550	450	254	M20	381	140	120	38	1130	650	900	0,661	–

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	102	114	150	210	270	300	330	420
						Q l/min	0	1700	1900	2500	3500	4500	5000	5500	7000
NKM-G150-200/218/11 /4	MEC 160 M	400 V ∅	11	15	22	H (m)	13.2	13.1	13	12.8	12.1	11	10.4	9.7	7

DAB PUMPS reserve the right to make modifications without prior notice

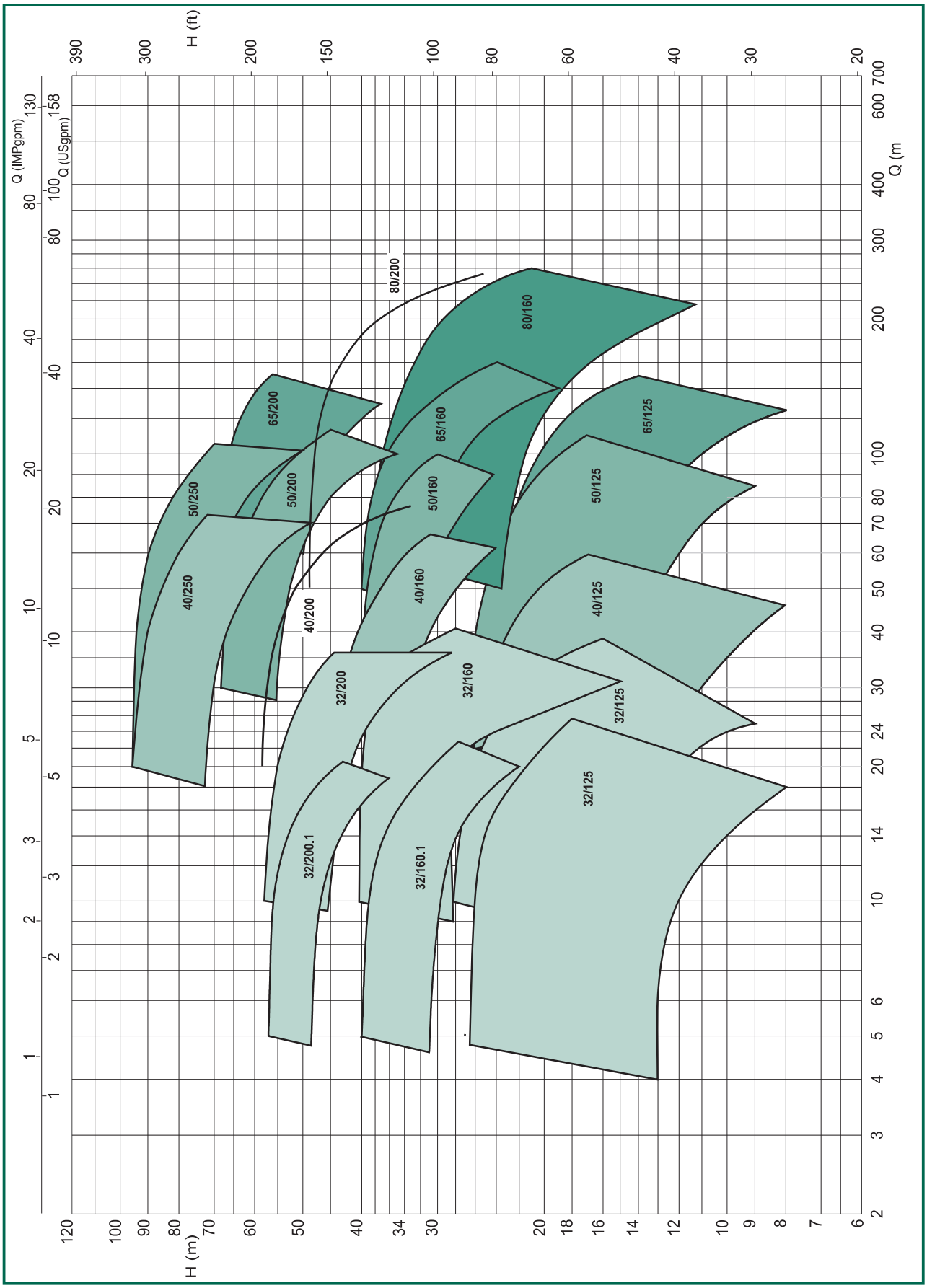
DAB PUMP PERFORMANCE

PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

≅ 2900 1/min



PERFORMANCE RANGE

NUMERICAL SELECTION TABLE
≅ 2900 1/min

MODEL	P2 Nominal kW	P2 Nominal HP	Q m³/h	0	6	12	18	24	30	36	42	48	54	60
			l/min	0	100	200	300	400	500	600	700	800	900	1000
NKP-G 32-125.1/102/0.75/2	0.75	1		13	12.5	11	8							
NKP-G 32-125.1/115/1.1/2	1.1	1.5		17.2	17	15	12.5							
NKP-G 32-125.1/125/1.5/2	1.5	2		21	20.8	19	16.8							
NKP-G 32-125.1/140/2.2/2	2.2	3		27	26.9	25.9	23	19.5						
NKP-G 32-125/110/ 1.1 /2	1.1	1.5		15.8	15.2	14.5	12.9	9.9						
NKP-G 32-125/120/ 1.5 /2	1.5	2		19.3	18.9	18.2	16.8	14.5						
NKP-G 32-125/130/ 2.2 /2	2.2	3		23.6	23.1	23	21.6	19.6	16.8					
NKP-G 32-125/142/ 3 /2	3	4		28.6	28	27.6	26.5	24.6	21.8	17.9				
NKP-G 32-160.1 155/2.2/2	2.2	3		29.2	29	26,5	20,5							
NKP-G 32-160.1 166/3 /2	3	4		35.3	35	33	28							
NKP-G 32-160/151 /3 /2	3	4		30.5	30	29	27	24	19.5					
NKP-G 32-160/163 /4 /2	4	5.5		36.2	36	35	33.5	30.5	27	22				
NKP-G 32-160/177 /5,5/2	5.5	7.5		43.5	43.2	42.6	41.5	39	36	31.5	25.5			
NKP-G 32-200.1 188/4 /2	4	5.5		45.3	44.4	40.8	34.4	26.8						
NKP-G 32-200.1 205/5,5/2	5.5	7.5		56.6	55.7	52	45.8	36.2						
NKP-G 32-200/190/ 5.5 /2	5.5	7.5		46.9	46.5	45	43	40	35	29				
NKP-G 32-200/210/ 7.5 /2	7.5	10		58.8	58	57	56	53	49	44				
NKP-G 40-125/107/ 1.5 /2	1.5	2		14.7	14.5	14.3	13.8	13	11.8	10.5	8.6	7		
NKP-G 40-125/120/ 2.2 /2	2.2	3		19	18.7	18.4	17.8	17	15.9	14.6	13	11		
NKP-G 40-125/130/ 3 /2	3	4		22.8	22.5	22.3	22	21.2	20.2	19	17.4	15.5	13.5	
NKP-G 40-125/139/ 4 /2	4	5.5		26.4	26.2	26	25.6	25	24	23	21.5	19.5	17.5	15
NKP-G 40-160/158/ 5,5 /2	5.5	7.5		33.7			34	33.4	32.4	31	29.5	27	24	
NKP-G 40-160/172/ 7,5 /2	7.5	10		40.7			40.2	40.1	39.8	38.5	37.5	35.5	33	30
NKP-G 40-200/210/11 /2	11	15		57.1	57	57	56.8	56.5	56	55	53	50	47	43.5
NKP-G 40-250/230/15 /2	15	20		72.5			72.5	72	70	68	66	62.5	60	56
NKP-G 40-250/245/18.5 /2	18.5	25	H (m)	83			83	82.5	81.5	80	77	74	71.5	67.5
NKP-G 40-250/260/22 /2	22	30		96			95	94.5	93.5	92	90	87.5	84	81
NKP-G 50-125/115/ 3 /2	3	4		17				16.5	16	15.5	15	14.5	13.7	13
NKP-G 50-125/125/ 4 /2	4	5.5		20.5				20	19.5	19.1	18.5	18	17.5	16.5
NKP-G 50-125/135/ 5,5 /2	5.5	7.5		24				23.6	23.5	23.2	22.8	22.2	21.5	21
NKP-G 50-125/144/ 7,5 /2	7.5	10		28				27.8	27.5	27.3	27	26.5	25.8	25.3
NKP-G 50-160/153/ 7.5 /2	7.5	10		31.9				31.5	31.5	31.5	31.2	31	30.5	29.5
NKP-G 50-160/169/11 /2	11	15		39.6					39.5	39.3	39.1	39	38.5	38
NKP-G 50-200/200/15 /2	15	20		55.1					54.7	54.6	54	53.5	52	51
NKP-G 50-200/210/18,5 /2	18.5	25		61.7					61.7	61.6	61.5	60.5	59	58
NKP-G 50-200/219/22 /2	22	30		67.7					67.5	67.4	66.5	66	65.5	64
NKP-G 50-250/230/22 /2	22	30		73.6					73.2	73.1	72.8	72	71	68.5
NKP-G 50-250/257/30 /2	30	40		93					92.5	92.3	92	91.5	91	89
NKP-G 65-125/120-110/4/2	4	5.5		16						15	14.6	14.2	13.7	13.3
NKP-G 65-125/127/ 5,5 /2	5.5	7.5		19.5						19	18.9	18.7	18.4	18.1
NKP-G 65-125/137/ 7,5 /2	7.5	10		23.5						23.1	23	22.8	22.6	22.5
NKP-G 65-160/157/11 /2	11	15		32.5								32.3	32	31.9
NKP-G 65-160/173/15 /2	15	20		40.1								39.7	39.6	39.5
NKP-G 65-200/190/18,5 /2	18.5	25		51.1								51	50.8	50.5
NKP-G 65-200/200/22 /2	22	30		56.4								56.1	56.1	56
NKP-G 65-200/219/30 /2	30	40		68.9								68.8	68.8	68.7
NKP-G 80-160/147-127/11 /2	11	15		24										
NKP-G 80-160/153/15 /2	15	20		30.5										
NKP-G 80-160/163/18,5 /2	18.5	25		35.5										
NKP-G 80-160/169/22 /2	22	30		38.5										
NKP-G 80-200/190/30 /2	30	40		48.3										

DAB PUMPS reserve the right to make modifications without prior notice

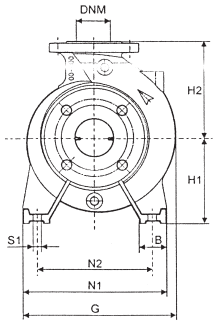
66	72	78	84	90	102	114	120	150	180	210	240	270	300	330	360	390	420
1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
26.5																	
39																	
51.5																	
63.5	58.5																
76.5	71.5																
12	11	10	9														
15.8	14.8	14	12.5	11.5													
20	19.1	18.5	17.5	16.5	13.4												
24.5	23.5	23	21.5	20.5	18	15.5											
28.5	27.5	26	25	23.5													
37.2	36.5	35	34	32.5													
49	47.5	45.5	43	41													
56.5	55	53	51	48.5	43												
62.5	61	59.5	57	55	50												
67	65	62.5	60	57	49												
87.5	86	83	81	78	72												
12.8	12.3	12	11.4	10	8.5	8											
17.5	17.2	16.9	16.5	15.8	14.5	13	12										
22	21.6	21.1	20.7	20.2	19	17.5	14.8	12									
31.3	30.2	30	29.2	28.7	27	24.8	23.6										
39.5	39	38.5	38.2	37.5	36	34.5	33.5	26.9									
50	49	48.5	48	47.5	45	42.5	41										
55.8	55.5	55	54.8	54.5	53	51	49										
68.7	68.6	68.5	68.4	67.5	66	64	63.1	57									
				22	21.4	20.4	20	17.4	16.8	12							
				29	28.4	27.5	27	24.5	21.3	18.3							
				34.3	33.6	32.6	32.3	29.8	26.8	23.6	20						
				37.2	36.8	36	35.8	33.5	30.8	27.5	24						
				47.9	47.6	47.5	47.3	44.7	41	36	29						

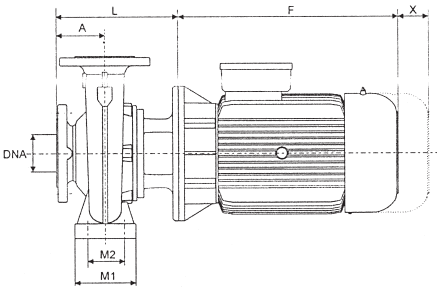
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

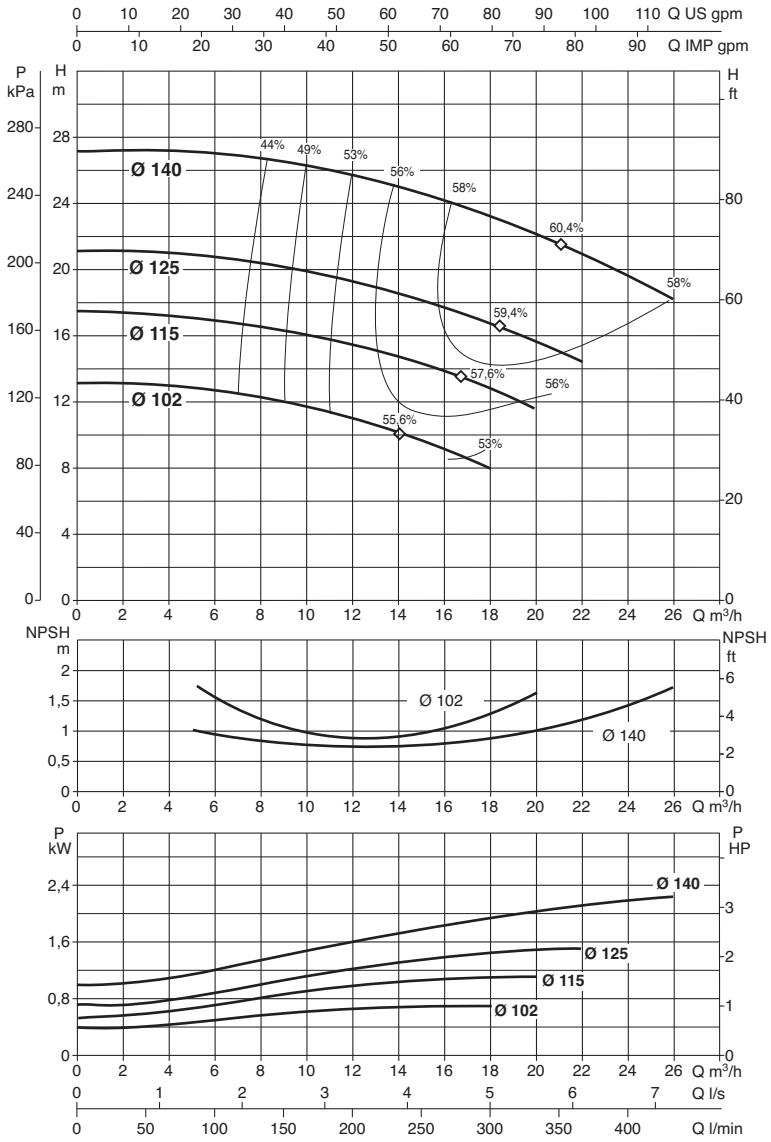
NKP-G 32-125.1

≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 32-125.1/102/0.75/2	50	32	80	50	–	234	234	112	140	226	100	70	190	140	M10	–	100	28	620	370	480	0,110	35
NKP-G 32-125.1/115/1.1/2	50	32	80	50	–	234	234	112	140	226	100	70	190	140	M10	–	100	28	620	370	480	0,110	47
NKP-G 32-125.1/125/1.5/2	50	32	80	50	–	247	234	112	140	226	100	70	190	140	M10	–	100	28	620	370	480	0,110	52
NKP-G 32-125.1/140/2.2/2	50	32	80	50	–	272	234	112	140	226	100	70	190	140	M10	–	100	28	620	370	480	0,110	54

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						Q l/min	0	100	200	300	400	500	600	700	800
NKP-G 32-125.1/102/0.75/2	MEC 80	230/400 V	0.75	1	3.2-1.9	H (m)	13	12.5	11	8	–	–	–	–	–
NKP-G 32-125.1/115/1.1/2	MEC 80	230/400 V	1.1	1.5	4.5-2.6		17.2	17	15	12.5	–	–	–	–	–
NKP-G 32-125.1/125/1.5/2	MEC 90 S	230/400 V	1.5	2	5.9-3.4		21	20.8	19	16.8	–	–	–	–	–
NKP-G 32-125.1/140/2.2/2	MEC 90 L	230/400 V	2.2	3	8.5-4.9		27	26.9	25.9	23	19.5	–	–	–	–

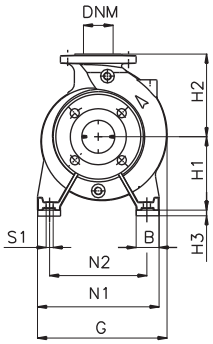
DAB PUMPS reserve the right to make modifications without prior notice

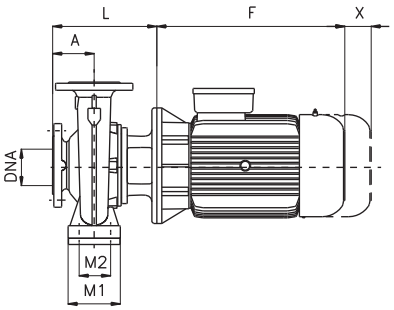
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

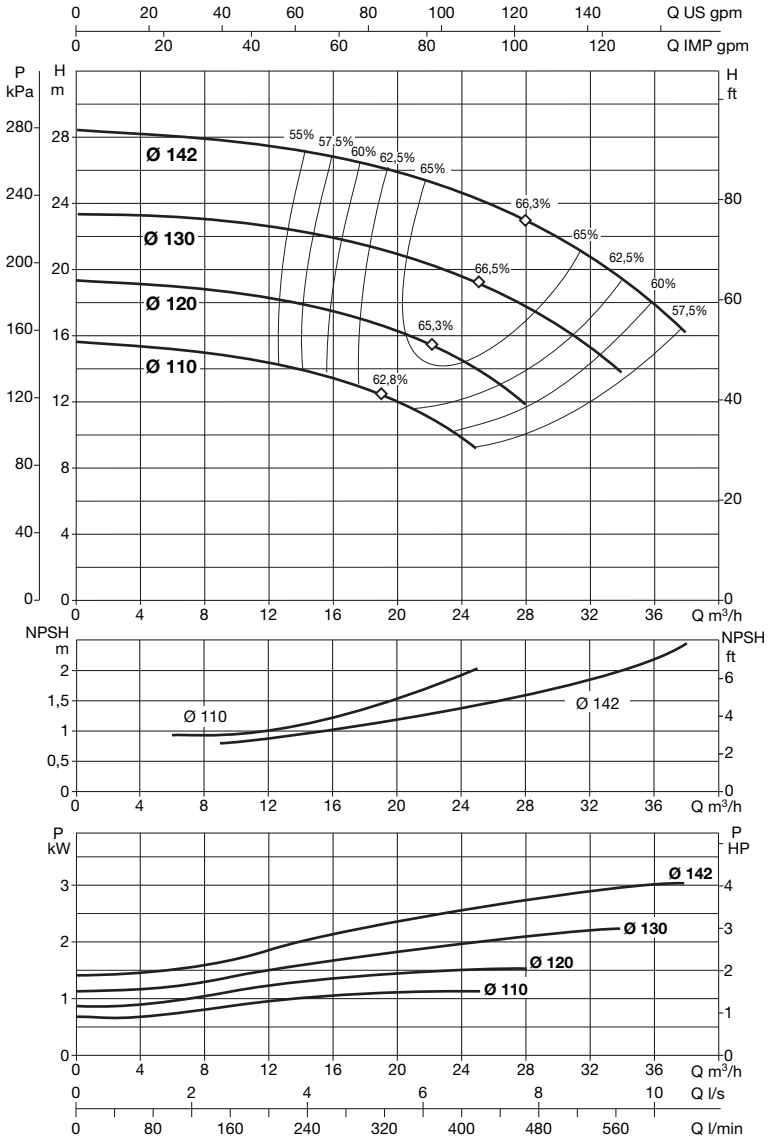
NKP-G 32-125

≅ 2900 1/min





Motor construction type: B5



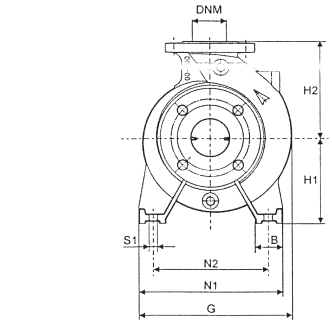
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	H3	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 32-125/110/ 1.1 /2	50	32	80	50	–	234	234	112	140	226	100	70	190	140	M10	–	100	–	28	620	370	480	0,110	40
NKP-G 32-125/120/ 1.5 /2	50	32	80	50	–	247	234	112	140	226	100	70	190	140	M10	–	100	–	28	620	370	480	0,110	52
NKP-G 32-125/130/ 2.2 /2	50	32	80	50	–	272	234	112	140	226	100	70	190	140	M10	–	100	–	28	620	370	480	0,110	54
NKP-G 32-125/142/ 3 /2	50	32	80	50	–	301	250	112	140	254	100	70	190	140	M10	–	100	20	28	670	420	540	0,152	67

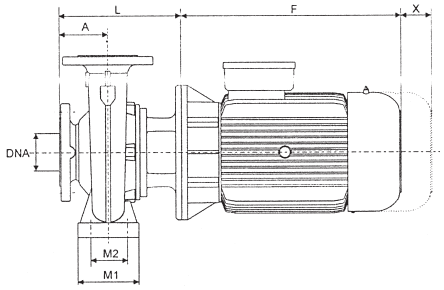
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						Q l/min	0	100	200	300	400	500	600	700	800
NKP-G 32-125/110/ 1.1 /2	MEC 80	230/400 V	1.1	1.5	4.5-2.6	H (m)	15.8	15.2	14.5	12.9	9.9	–	–	–	–
NKP-G 32-125/120/ 1.5 /2	MEC 90 S	230/400 V	1.5	2	5.9-3.4		19.3	18.9	18.2	16.8	14.5	–	–	–	–
NKP-G 32-125/130/ 2.2 /2	MEC 90 L	230/400 V	2.2	3	8.5-4.9		23.6	23.1	23	21.6	19.6	16.8	–	–	–
NKP-G 32-125/142/ 3 /2	MEC 100 L	400 V ∅	3	4	6.4		28.6	28	27.6	26.5	24.6	21.8	17.9	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

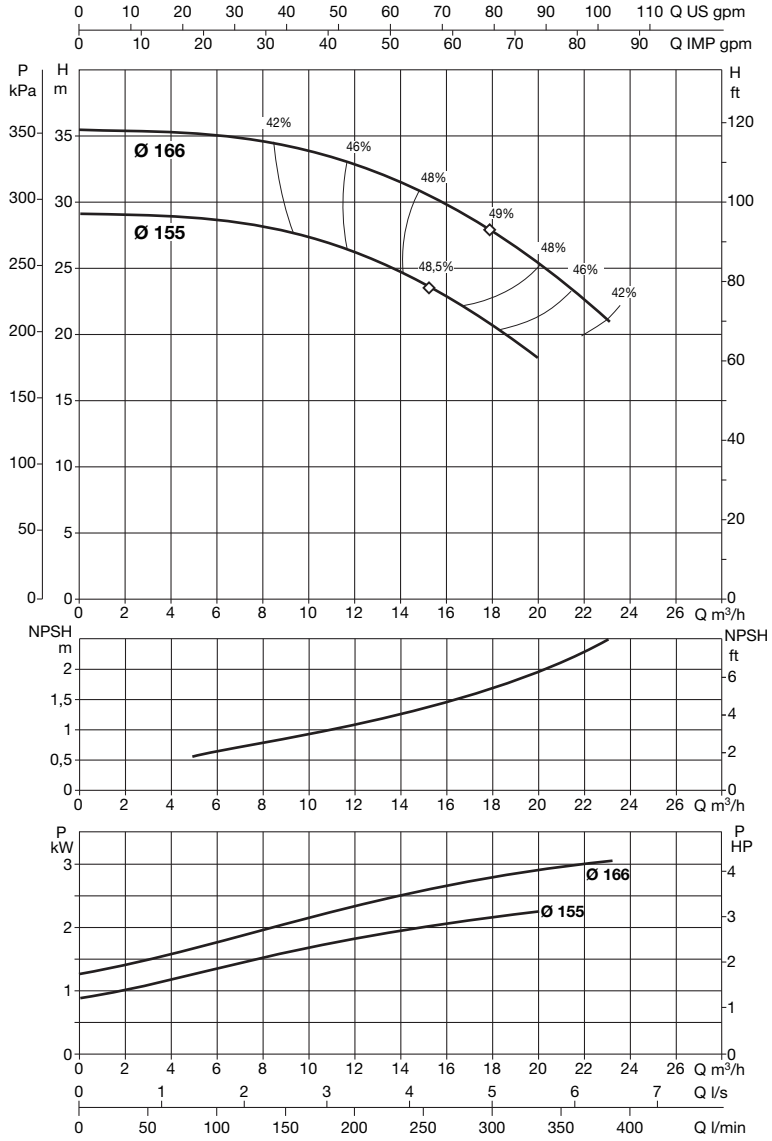
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-G 32-160.1 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 32-160.1 155/2.2/2	50	32	80	50	–	272	245	132	160	226	100	70	240	190	M10	–	100	28	620	370	480	0,110	49
NKP-G 32-160.1 166/3 /2	50	32	80	50	–	301	250	132	160	254	100	70	240	190	M10	–	100	28	670	420	540	0,152	61

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						Q l/min	0	100	200	300	400	500	600	700	800
NKP-G 32-160.1 155/2.2/2	MEC 90 L	230/400 V	2.2	3	8.5-4.9	H (m)	29.2	29	26,5	20,5	–	–	–	–	–
NKP-G 32-160.1 166/3 /2	MEC 100 L	400 V ∅	3	4	6.4		35.3	35	33	28	–	–	–	–	–

DAB PUMPS reserve the right to make modifications without prior notice

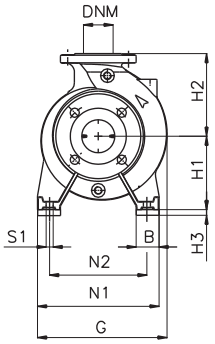
DAB PUMP PERFORMANCE

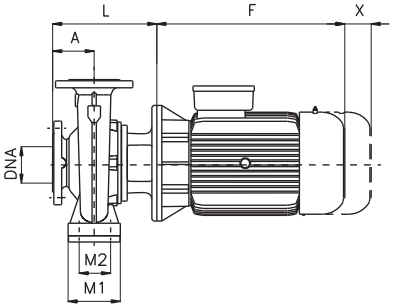
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

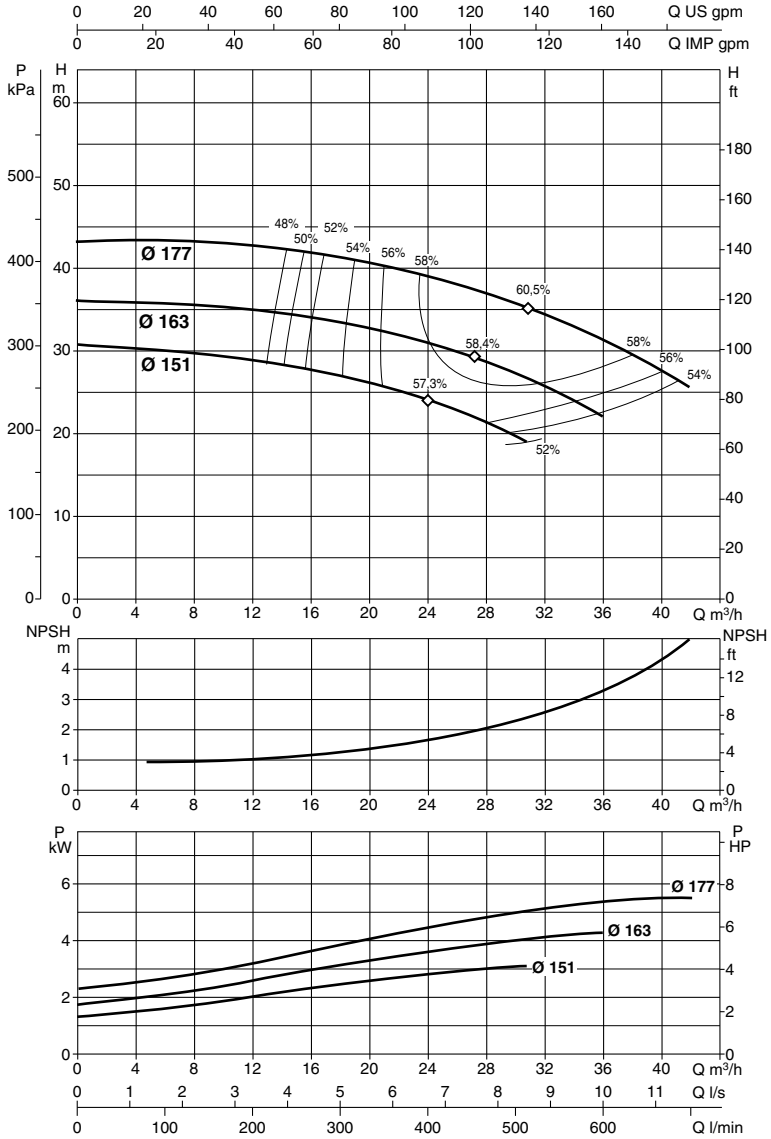
NKP-G 32-160

≅ 2900 1/min





Motor construction type: B5



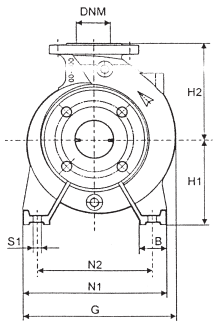
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	H3	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 32-160/151 /3 /2	50	32	80	50	–	301	250	132	160	254	100	70	240	190	M10	–	–	100	28	670	420	540	0,152	61
NKP-G 32-160/163 /4 /2	50	32	80	50	–	301	250	132	160	254	100	70	240	190	M10	–	–	100	28	670	420	540	0,152	83
NKP-G 32-160/177 /5,5/2	50	32	80	50	–	390	300	132	160	293	100	70	240	190	M10	–	20	100	28	830	430	520	0,186	105

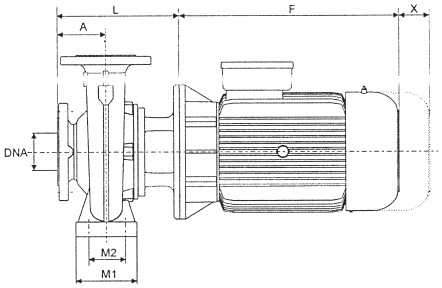
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						Q l/min	0	100	200	300	400	500	600	700	800
NKP-G 32-160/151 /3 /2	MEC 100 L	400 V ∅	3	4	6.4	H (m)	30.5	30	29	27	24	19.5	–	–	–
NKP-G 32-160/163 /4 /2	MEC 112 M	400 V ∅	4	5.5	8.5		36.2	36	35	33.5	30.5	27	22	–	–
NKP-G 32-160/177 /5,5/2	MEC 132 S	400 V ∅	5.5	7.5	10.6		43.5	43.2	42.6	41.5	39	36	31.5	25.5	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

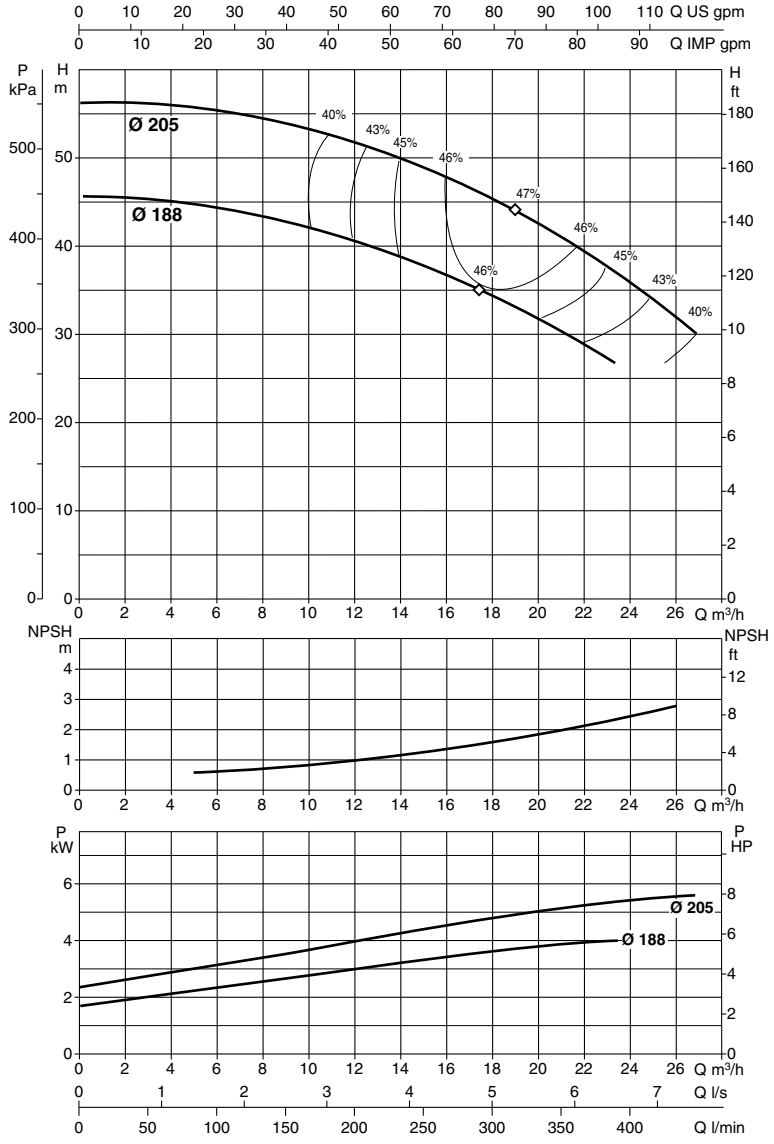
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-G 32-200.1 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 32-200.1 188/4 /2	50	32	80	50	–	301	279	160	180	254	100	70	240	190	M10	–	100	28	670	420	540	0,152	83
NKP-G 32-200.1 205/5,5/2	50	32	80	50	–	390	300	160	180	293	100	70	240	190	M10	–	100	28	830	430	520	0,186	105

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-G 32-200.1 188/4 /2	MEC 112 M	400 V ∅	4	5.5	8.5	H (m)	45.3	44.4	40.8	34.4	26.8	–	–	–	–
NKP-G 32-200.1 205/5,5/2	MEC 132 S	400 V ∅	5.5	7.5	10.6		56.6	55.7	52	45.8	36.2	–	–	–	–

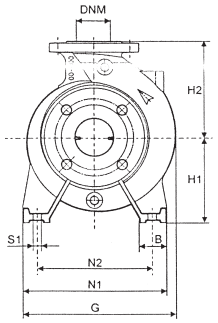
DAB PUMPS reserve the right to make modifications without prior notice

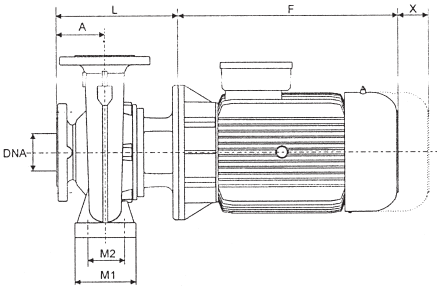
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

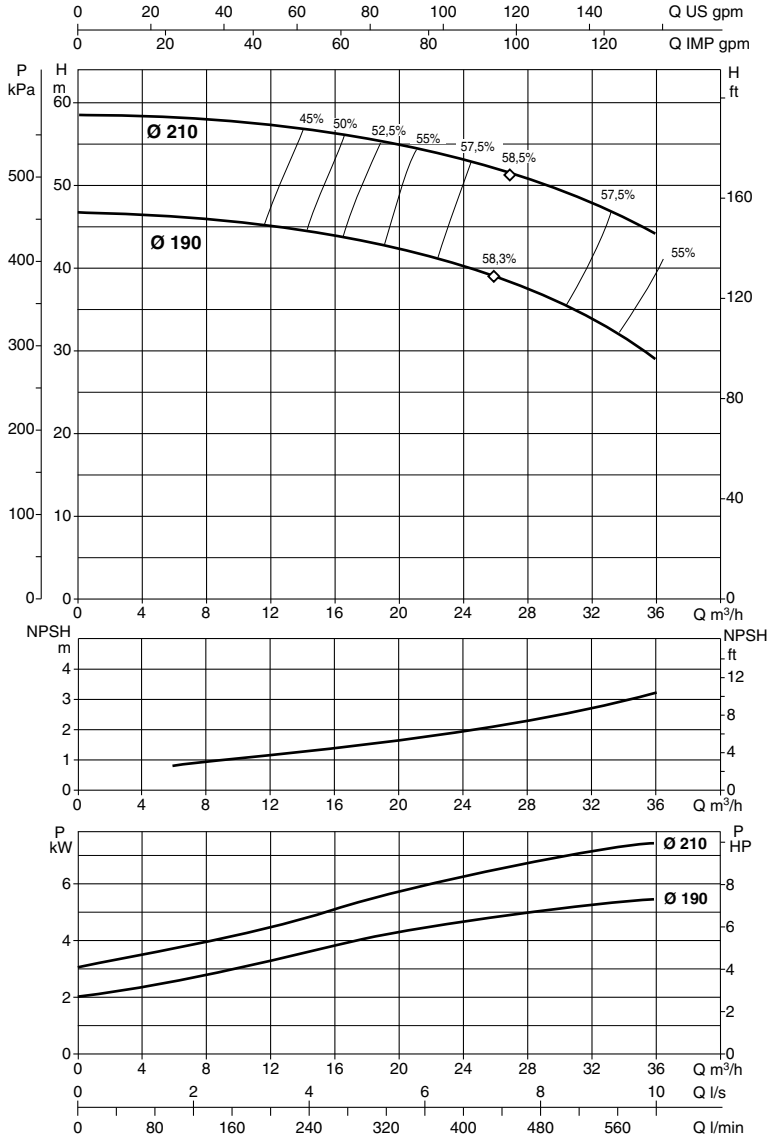
NKP-G 32-200

≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 32-200/190/ 5.5 /2	50	32	80	50	–	390	300	160	180	293	100	70	240	190	M10	–	100	28	830	430	520	0,186	117
NKP-G 32-200/210/ 7.5 /2	50	32	80	50	–	390	300	160	180	293	100	70	240	190	M10	–	100	28	830	430	520	0,186	122

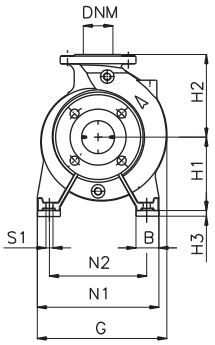
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-G 32-200/190/ 5.5 /2	MEC 132 S	400 V ∅	5.5	7,5	10.6	H (m)	46.9	46.5	45	43	40	35	29	–	–
NKP-G 32-200/210/ 7.5 /2	MEC 132 S	400 V ∅	7.5	10	14.1		58.8	58	57	56	53	49	44	–	–

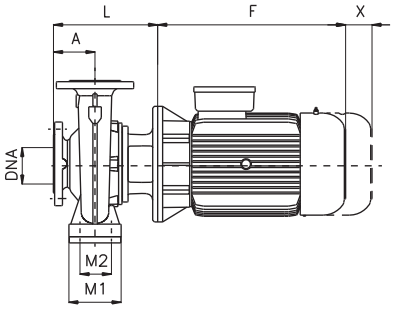
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

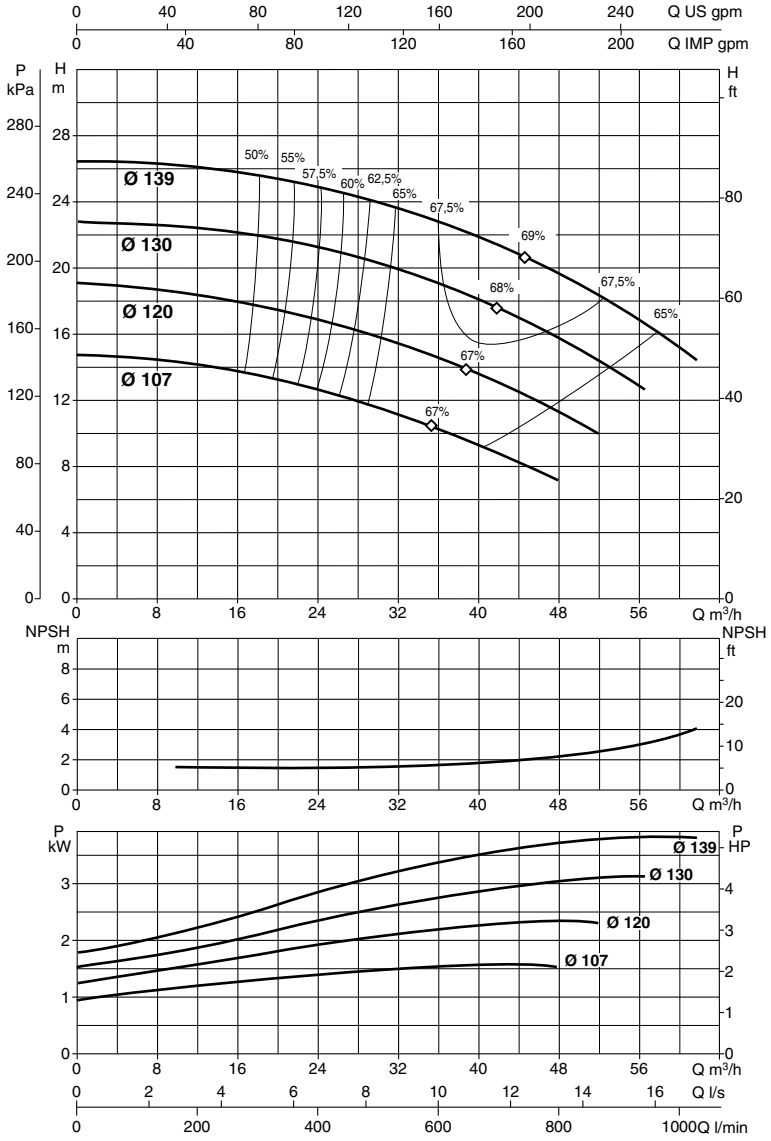
NKP-G 40-125

≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	H3	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 40-125/107/ 1.5 /2	65	40	80	50	–	247	234	112	140	226	100	70	210	160	M10	–	100	–	28	620	370	480	0,110	57
NKP-G 40-125/120/ 2.2 /2	65	40	80	50	–	272	234	112	140	226	100	70	210	160	M10	–	100	–	28	620	370	480	0,110	70
NKP-G 40-125/130/ 3 /2	65	40	80	50	–	301	300	112	140	254	100	70	210	160	M10	–	100	20	28	670	420	540	0,152	76
NKP-G 40-125/139/ 4 /2	65	40	80	50	–	301	300	112	140	254	100	70	210	160	M10	–	100	20	28	670	420	540	0,152	98

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	36	48	54	60
						Q l/min	0	100	200	300	400	600	800	900	1000
NKP-G 40-125/107/ 1.5 /2	MEC 90 S	230/400 V	1.5	2	5.9-3.4	H (m)	14.7	14.5	14.3	13.8	13	10.5	7	–	–
NKP-G 40-125/120/ 2.2 /2	MEC 90 L	230/400 V	2.2	3	8.5-4.9		19	18.7	18.4	17.8	17	14.6	11	–	–
NKP-G 40-125/130/ 3 /2	MEC 100 L	400 V ∅	3	4	6.4		22.8	22.5	22.3	22	21.2	19	15.5	13.5	–
NKP-G 40-125/139/ 4 /2	MEC 112	400 V ∅	4	5,5	8.5		26.4	26.2	26	25.6	25	23	19.5	17.5	15

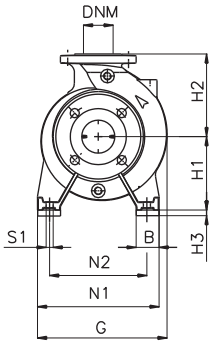
DAB PUMPS reserve the right to make modifications without prior notice

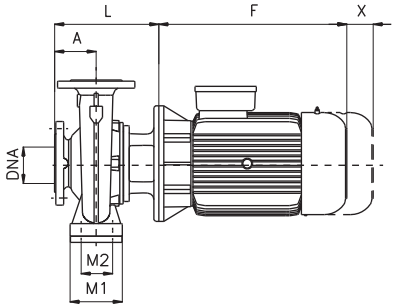
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

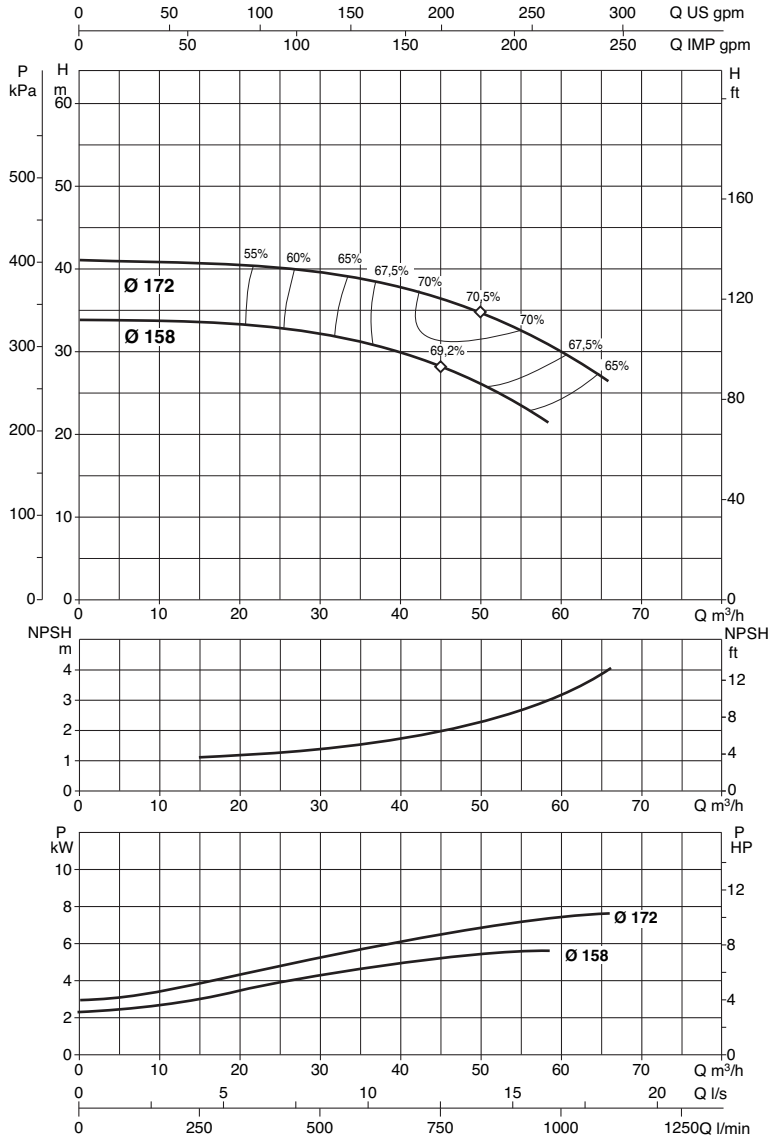
NKP-G 40-160

≅ 2900 1/min





Motor construction type: B5



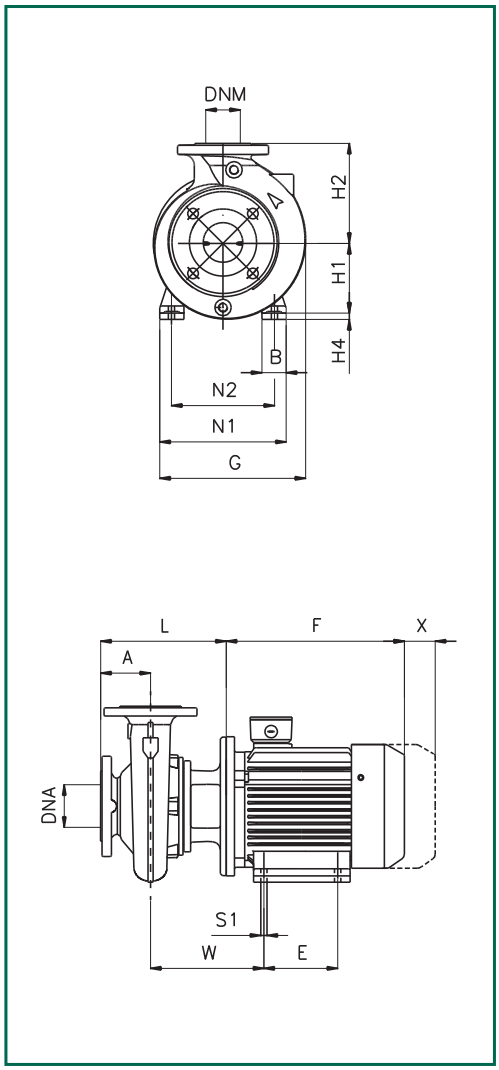
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	H3	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 40-160/158/ 5,5 /2	65	40	80	50	–	390	300	132	160	293	100	70	240	190	M10	–	100	20	28	830	430	520	0,186	110
NKP-G 40-160/172/ 7,5 /2	65	40	80	50	–	390	300	132	160	293	100	70	240	190	M10	–	100	20	28	830	430	520	0,186	114

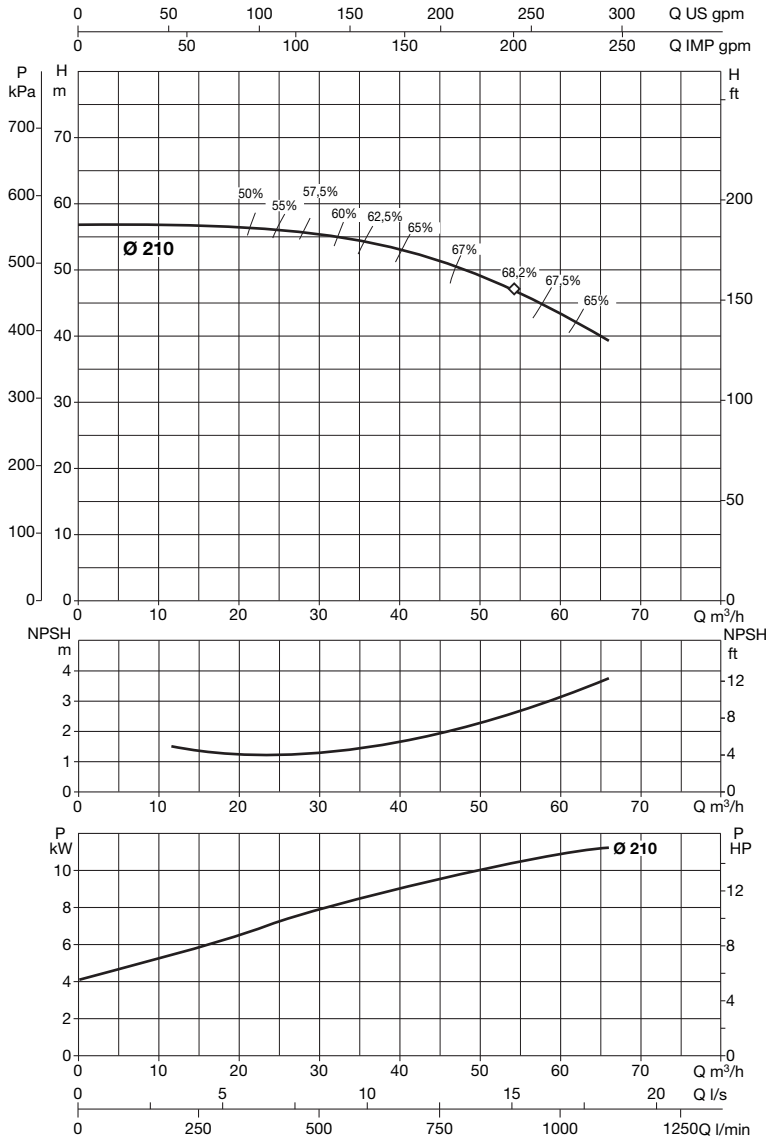
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	18	24	30	36	42	48	54	66
						l/min	0	300	400	500	600	700	800	900	1100
NKP-G 40-160/158/ 5,5 /2	MEC 132 S	400 V ∅	5.5	7,5	10.6	H (m)	33.7	34	33.4	32.4	31	29.5	27	24	–
NKP-G 40-160/172/ 7,5 /2	MEC 132 S	400 V ∅	7.5	10	14.1		40.7	40.2	40.1	39.8	38.5	37.5	35.5	33	26.5

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-G 40-200 ≅ 2900 1/min





MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 40-200/210/11 /2	65	40	100	67	210	460	350	160	180	343	–	–	314	254	M12	351	100	20	28	1030	530	640	0,349	193

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	24	30	36	42	48	60	66
						Q l/min	0	200	400	500	600	700	800	1000	1100
NKP-G 40-200/210/11 /2	MEC 160 M	400 V ∅	11	15	20.4	H (m)	57.1	57	56.5	56	55	53	50	43.5	39

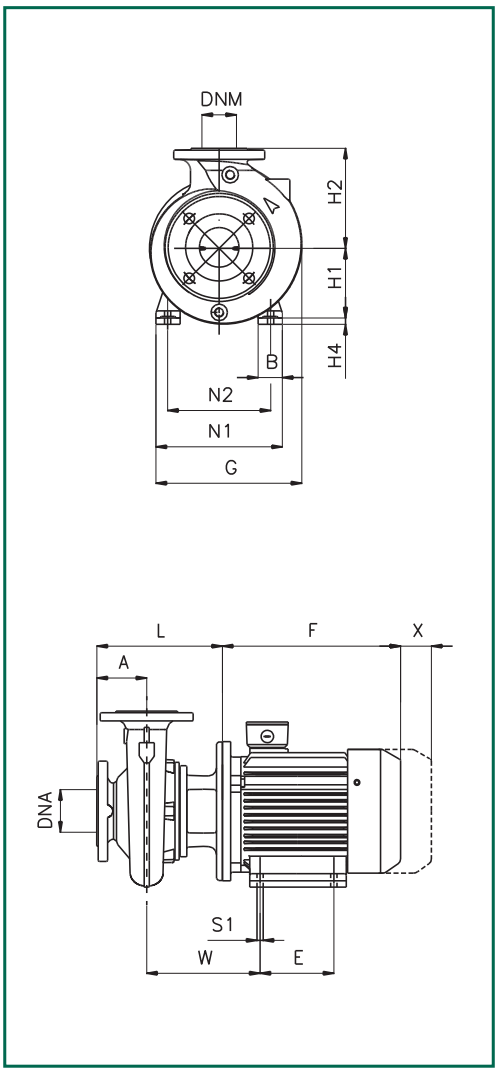
DAB PUMPS reserve the right to make modifications without prior notice

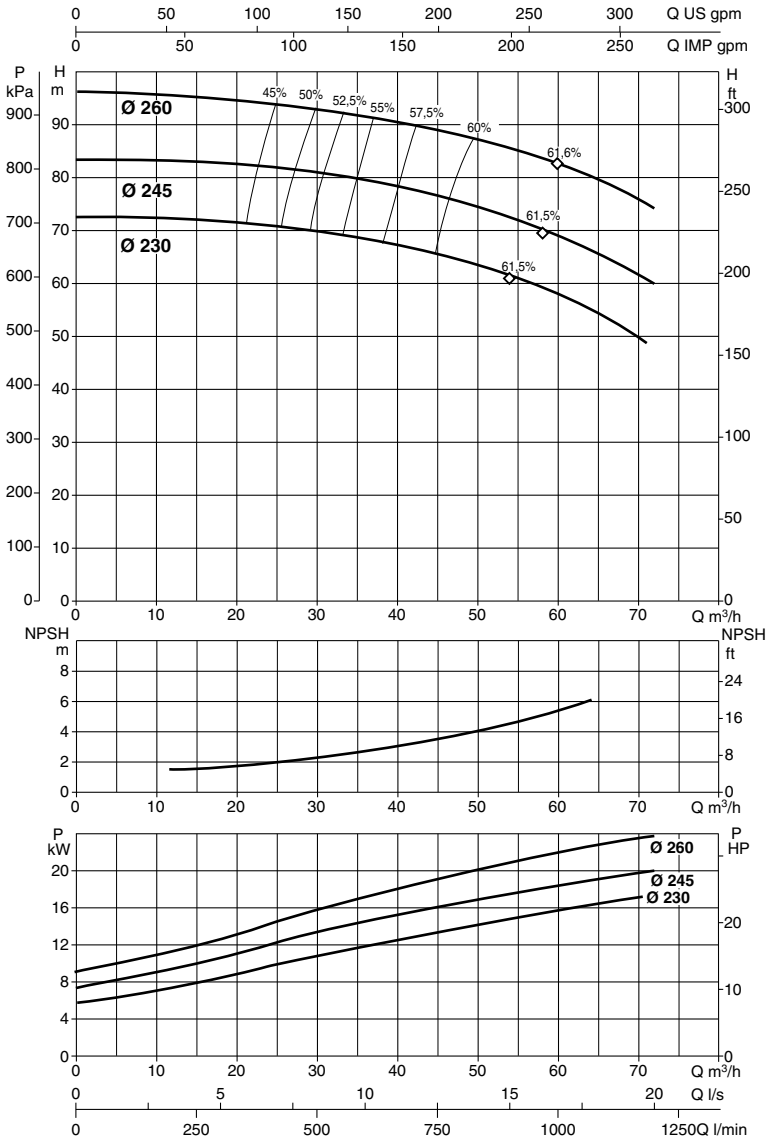
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-G 40-250

≅ 2900 1/min





MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 40-250/230/15 /2	65	40	100	67	210	460	350	160	225	343	–	–	314	254	M12	351	100	20	28	1030	530	640	0,349	207
NKP-G 40-250/245/18.5 /2	65	40	100	67	254	540	350	160	225	343	–	–	314	254	M12	351	100	20	28	1030	530	640	0,349	225
NKP-G 40-250/260/22 /2	65	40	100	74	241	580	350	180	225	343	–	–	345	279	M12	364	100	–	28	1030	530	640	0,349	263

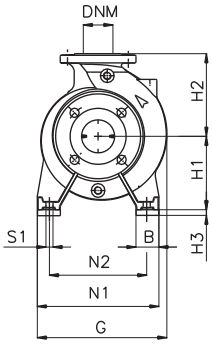
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	18	30	36	42	48	54	66	72
						Q l/min	0	300	500	600	700	800	900	1100	1200
NKP-G 40-250/230/15 /2	MEC 160 M	400 V ∅	15	20	27.5	H (m)	72.5	72.5	70	68	66	62.5	60	51.5	–
NKP-G 40-250/245/18.5 /2	MEC 160 L	400 V ∅	18.5	25	33.5		83	83	81.5	80	77	74	71.5	63.5	58.5
NKP-G 40-250/260/22 /2	MEC 180 M	400 V ∅	22	30	39.5		96	95	93.5	92	90	87.5	84	76.5	71.5

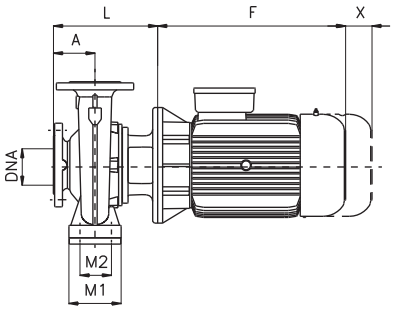
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

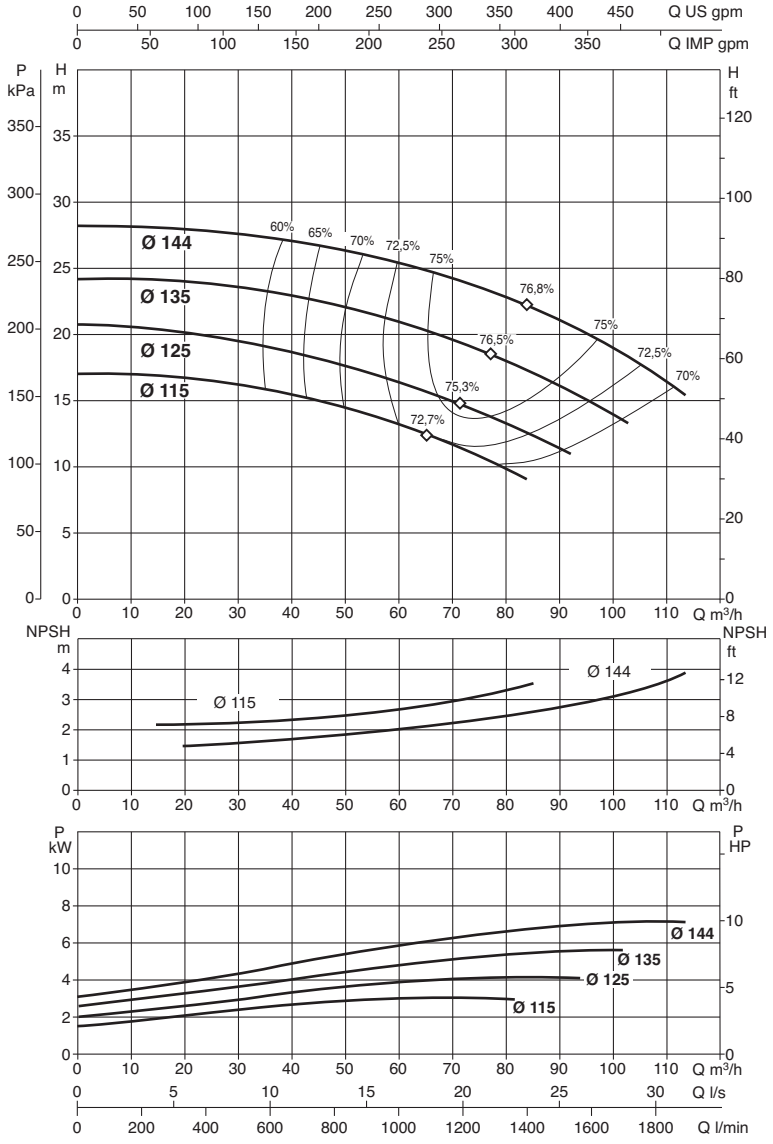
NKP-G 50-125

≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	H3	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 50-125/115/ 3 /2	65	50	100	50	–	301	251	132	160	274	100	70	240	190	M10	–	100	–	28	670	420	540	0,152	78
NKP-G 50-125/125/ 4 /2	65	50	100	50	–	301	251	132	160	274	100	70	240	190	M10	–	100	–	28	670	420	540	0,152	113
NKP-G 50-125/135/ 5,5 /2	65	50	100	50	–	390	300	132	160	313	100	70	240	190	M10	–	100	20	28	830	430	520	0,186	115
NKP-G 50-125/144/ 7,5 /2	65	50	100	50	–	390	300	132	160	313	100	70	240	190	M10	–	100	20	28	830	430	520	0,186	120

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	24	30	42	54	66	84	102	114
						Q l/min	0	400	500	700	900	1100	1400	1700	1900
NKP-G 50-125/115/ 3 /2	MEC 100 L	400 V ∅	3	4	6.4	H (m)	17	16.5	16	15	13.7	12	9	–	–
NKP-G 50-125/125/ 4 /2	MEC 112 M	400 V ∅	4	5.5	8.5		20.5	20	19.5	18.5	17.5	15.8	12.5	–	–
NKP-G 50-125/135/ 5,5 /2	MEC 132 S	400 V ∅	5.5	7.5	10.6		24	23.6	23.5	22.8	21.5	20	17.5	13.4	–
NKP-G 50-125/144/ 7,5 /2	MEC 132 S	400 V ∅	7.5	10	14.1		28	27.8	27.5	27	25.8	24.5	21.5	18	15.5

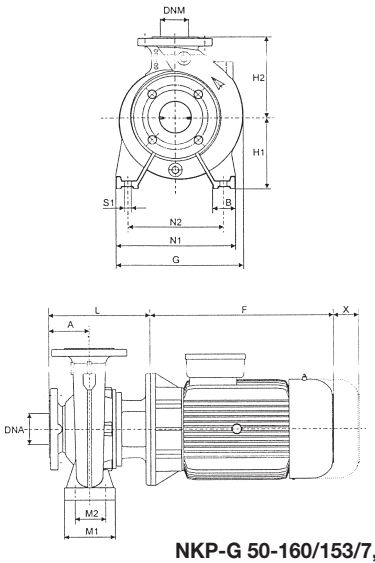
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

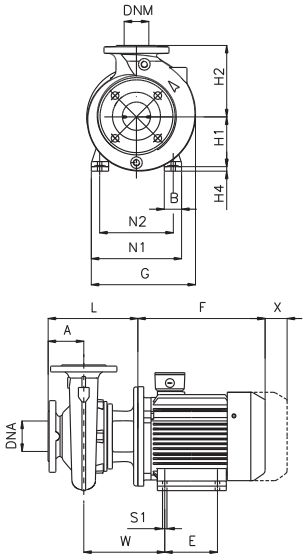
NKP-G 50-160

≅ 2900 1/min

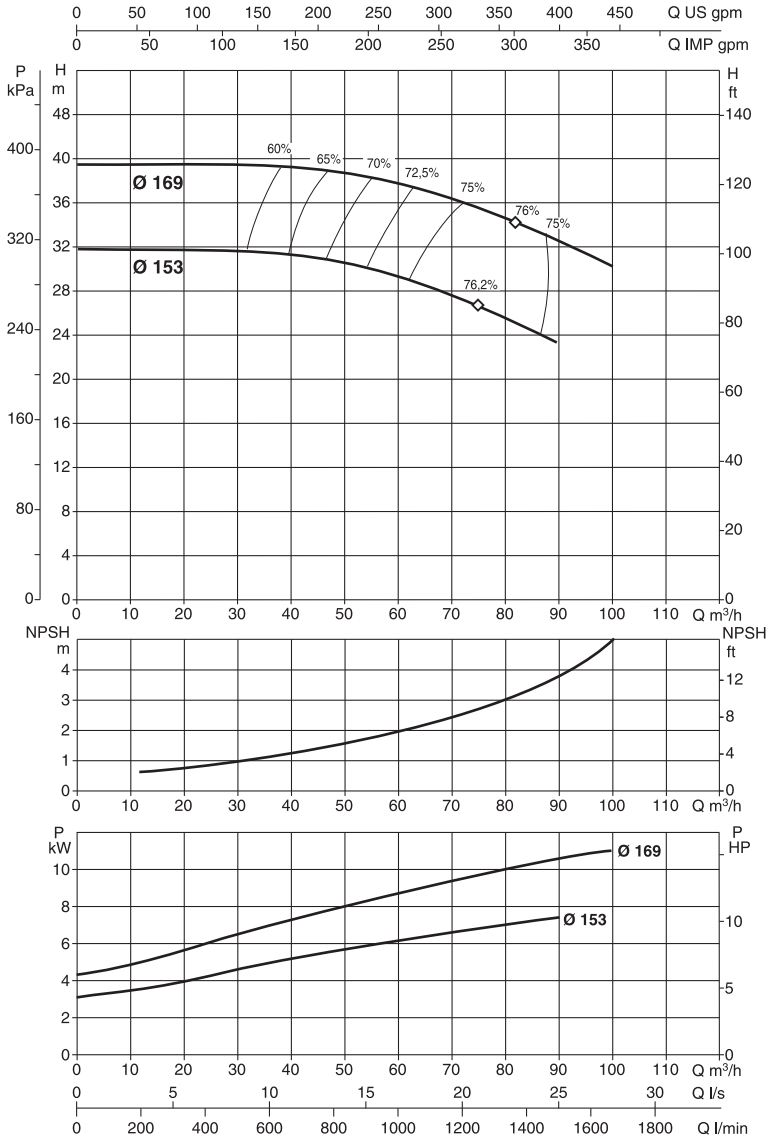


NKP-G 50-160/153/7,5/2

Motor construction type: B5



NKP-G 50-160/169/11/2



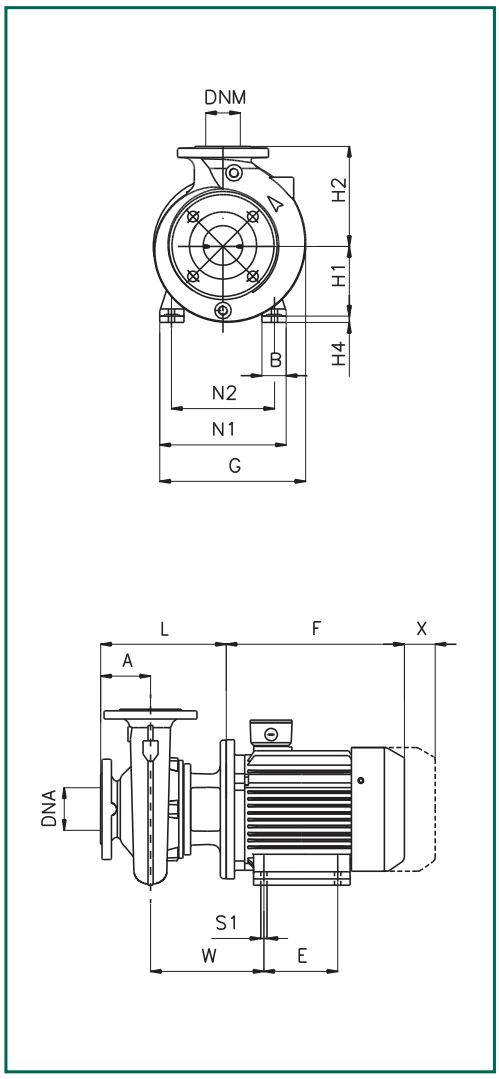
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 50-160/153/ 7.5 /2	65	50	100	50	–	390	300	160	180	313	100	70	265	212	M10	–	100	–	28	1030	530	640	0,349	88
NKP-G 50-160/169/11 /2	65	50	100	67	210	460	350	160	180	343	–	–	314	254	M12	351	100	20	28	1030	530	640	0,349	119

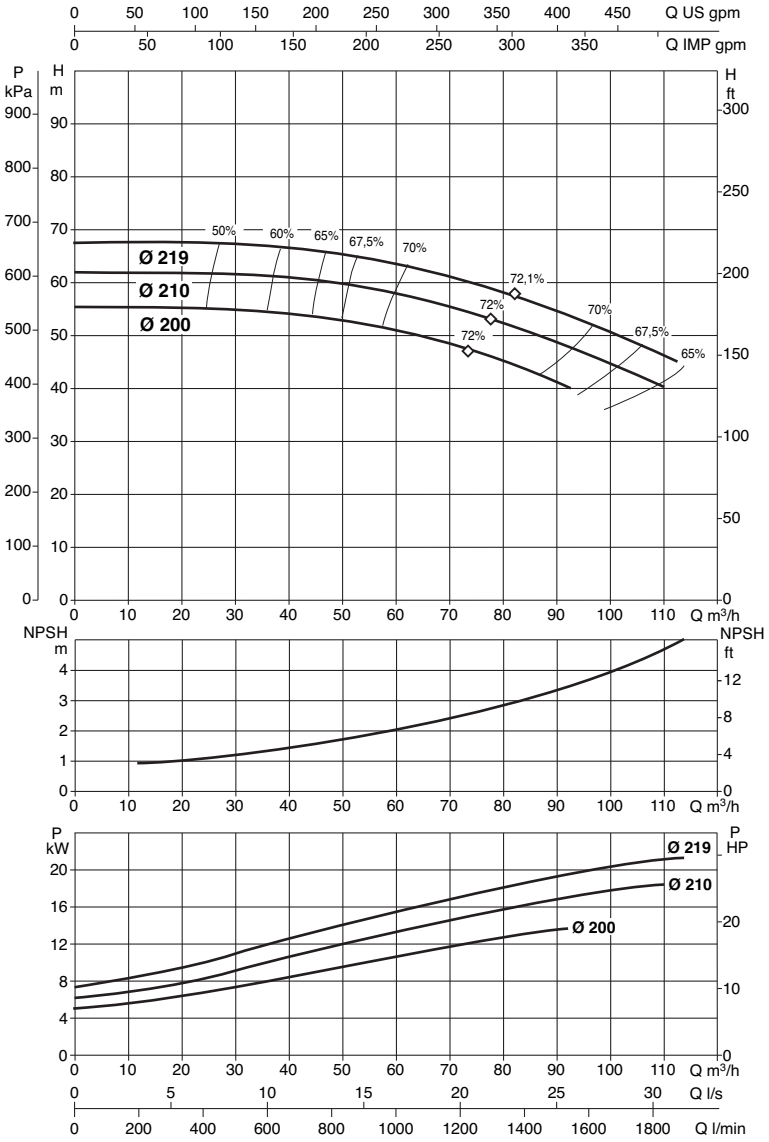
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	30	42	48	54	66	78	84	90
						Q l/min	0	500	700	800	900	1100	1300	1400	1500
NKP-G 50-160/153/ 7.5 /2	MEC 132 S	400 V ∅	7.5	10	14.1	H (m)	31.9	31.5	31.2	31	30.5	28.5	26	25	23.5
NKP-G 50-160/169/11 /2	MEC 160 M	400 V ∅	11	15	20.4		39.6	39.5	39.1	39	38.5	37.2	35	34	32.5

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-G 50-200 ≅ 2900 1/min





MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 50-200/200/15 /2	65	50	100	67	210	460	350	160	200	343	–	–	314	254	M12	351	100	20	28	1030	530	640	0,349	203
NKP-G 50-200/210/18,5 /2	65	50	100	67	254	540	350	160	200	343	–	–	314	254	M12	351	100	20	28	1030	530	640	0,349	220
NKP-G 50-200/219/22 /2	65	50	100	74	241	580	350	180	200	343	–	–	345	279	M12	364	100	–	28	1030	530	640	0,349	258

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	30	42	54	60	66	78	90	102
						Q l/min	0	500	700	900	1000	1100	1300	1500	1700
NKP-G 50-200/200/15 /2	MEC 160 M	400 V ∅	15	20	27.5	H (m)	55.1	54.7	54	52	51	49	45.5	41	–
NKP-G 50-200/210/18,5 /2	MEC 160 L	400 V ∅	18.5	25	33.5		61.7	61.7	61.5	59	58	56.5	53	48.5	43
NKP-G 50-200/219/22 /2	MEC 180 M	400 V ∅	22	30	39.5		67.7	67.5	66.5	65.5	64	62.5	59.5	55	50

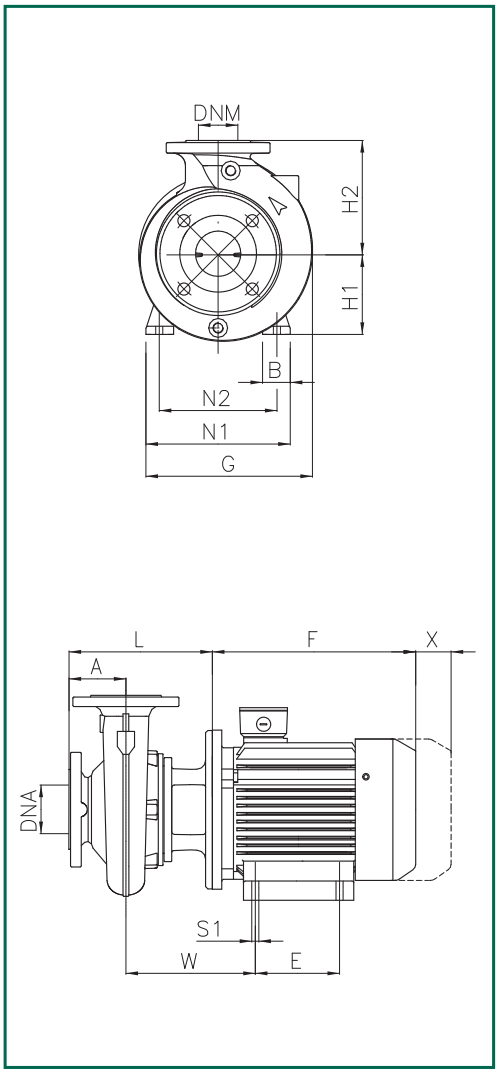
DAB PUMPS reserve the right to make modifications without prior notice

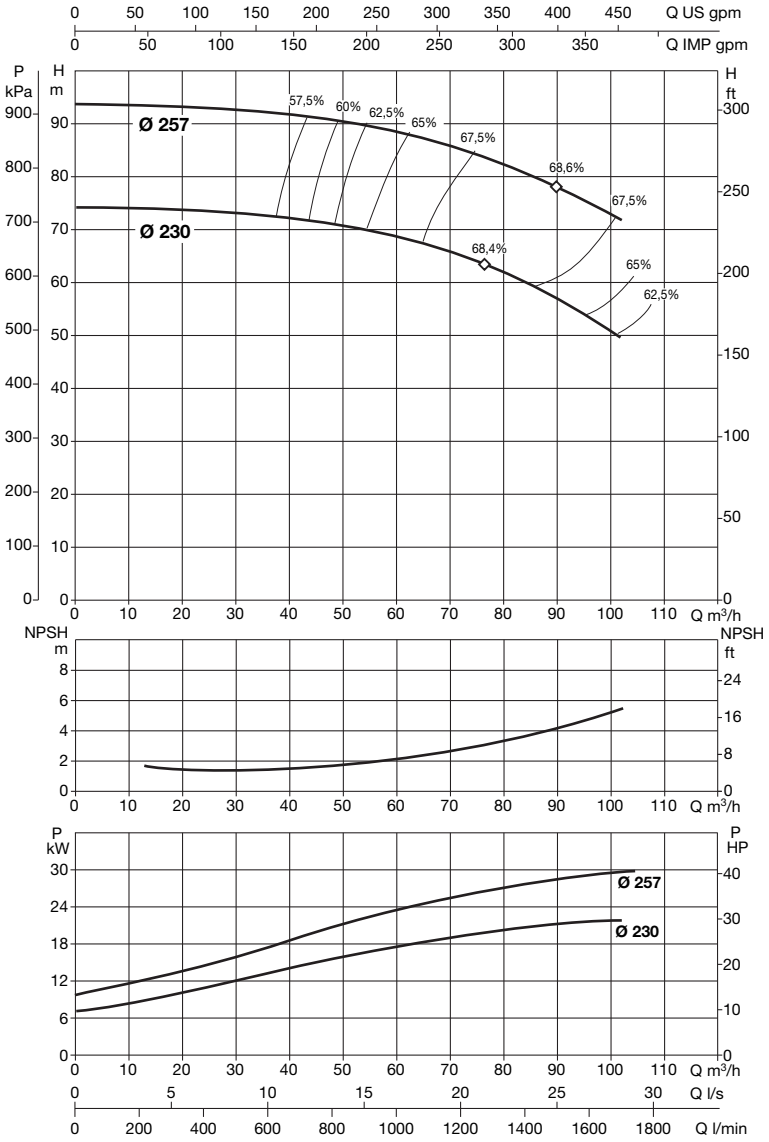
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-G 50-250

≅ 2900 1/min





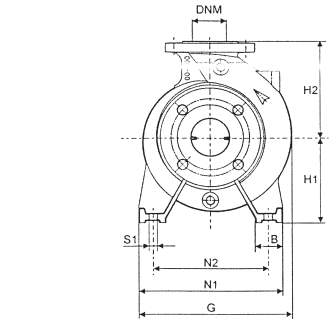
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 50-250/230/22 /2	65	50	100	74	241	580	350	180	225	343	–	–	345	279	M12	364	100	28	1030	530	640	0,349	263
NKP-G 50-250/257/30 /2	65	50	100	85	305	640	400	200	225	343	–	–	388	318	M14	376	100	28	1130	580	740	0,485	354

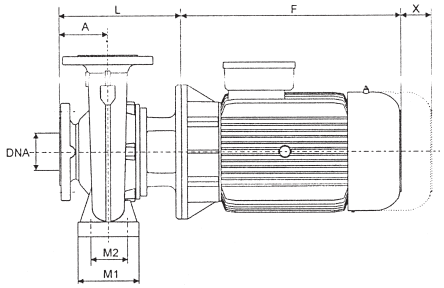
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	30	42	54	66	78	84	90	102
						l/min	0	500	700	900	1100	1300	1400	1500	1700
NKP-G 50-250/230/22 /2	MEC 180 M	400 V ∅	22	30	39.5	H (m)	73.6	73.2	72.8	71	67	62.5	60	57	49
NKP-G 50-250/257/30 /2	MEC 200 L	400 V ∅	30	40	52.5		93	92.5	92	91	87.5	83	81	78	72

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

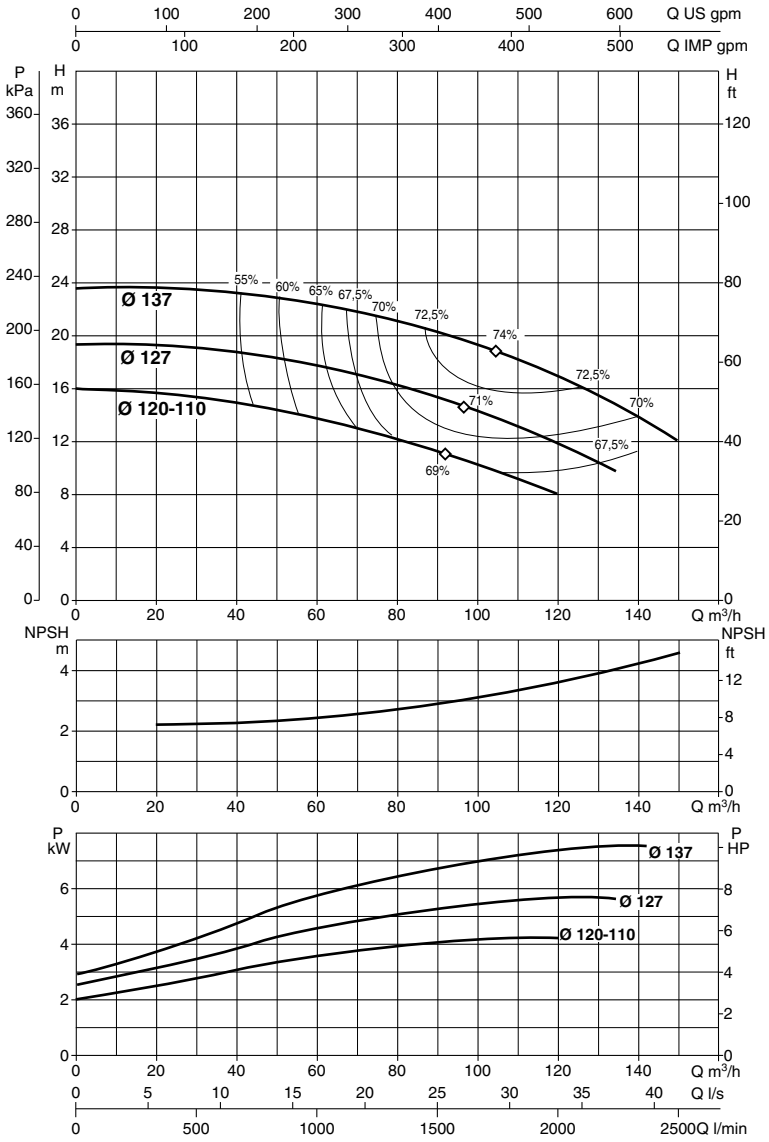
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-G 65-125 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 65-125/120-110/4/2	80	65	100	65	–	301	286	160	180	274	125	95	280	212	M10	–	100	28	670	420	540	0,152	104
NKP-G 65-125/127/ 5,5 /2	80	65	100	65	–	390	300	160	180	313	125	95	280	212	M10	–	100	28	830	430	520	0,186	113
NKP-G 65-125/137/ 7,5 /2	80	65	100	65	–	390	300	160	180	313	125	95	280	212	M10	–	100	28	830	430	520	0,186	118

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	36	60	72	78	84	102	114	150
						Q l/min	0	800	1000	1200	1300	1400	1700	1900	2500
NKP-G 65-125/120-110/4/2	MEC 112	400 V ∅	4	5,5	8.5	H (m)	16	15	13.3	12.3	12	11.4	8.5	8	–
NKP-G 65-125/127/ 5,5 /2	MEC 132 S	400 V ∅	5.5	7,5	10.6		19.5	19	18.1	17.2	16.9	16.5	14.5	13	–
NKP-G 65-125/137/ 7,5 /2	MEC 132 S	400 V ∅	7.5	10	14.1		23.5	23.1	22.5	21.6	21.1	20.7	19	17.5	12

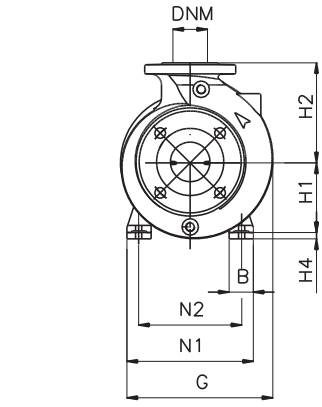
DAB PUMPS reserve the right to make modifications without prior notice

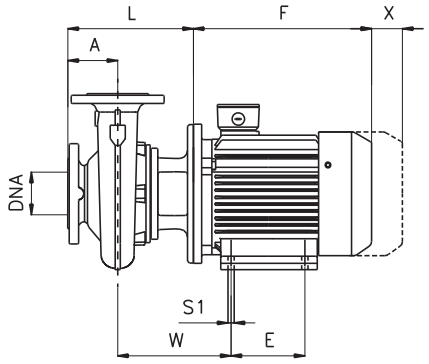
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

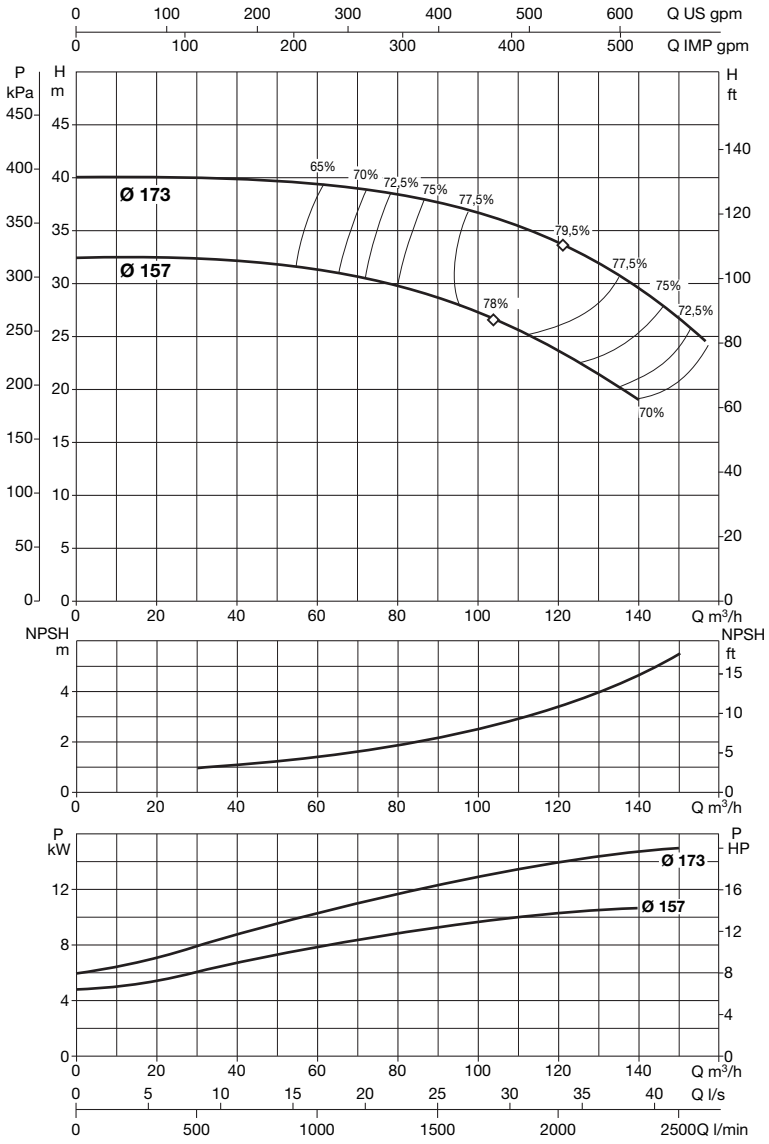
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-G 65-160

≅ 2900 1/min







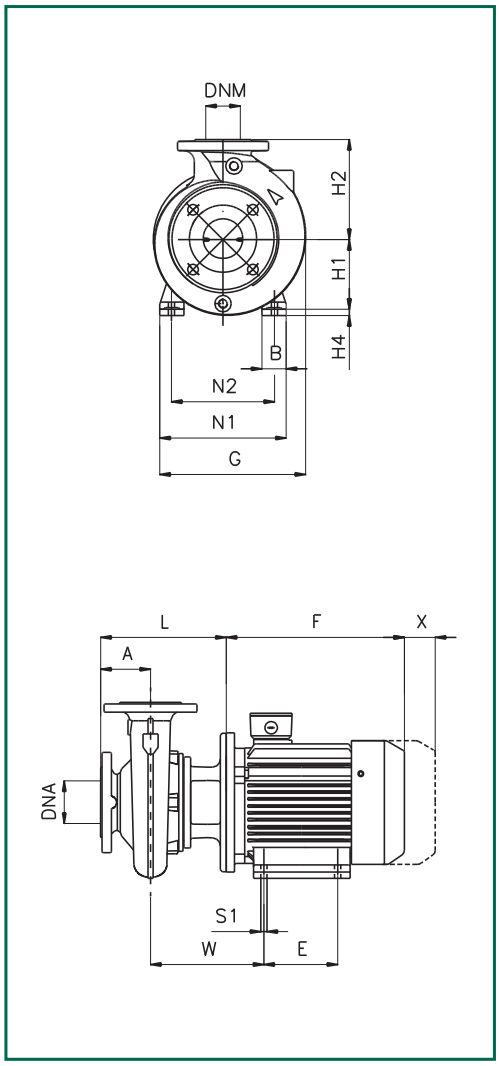
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 65-160/157/11 /2	80	65	100	67	210	460	350	160	200	343	–	–	314	254	M12	351	100	20	28	1030	530	640	0,349	189
NKP-G 65-160/173/15 /2	80	65	100	67	210	460	350	160	200	343	–	–	314	254	M12	351	100	20	28	1030	530	640	0,349	199

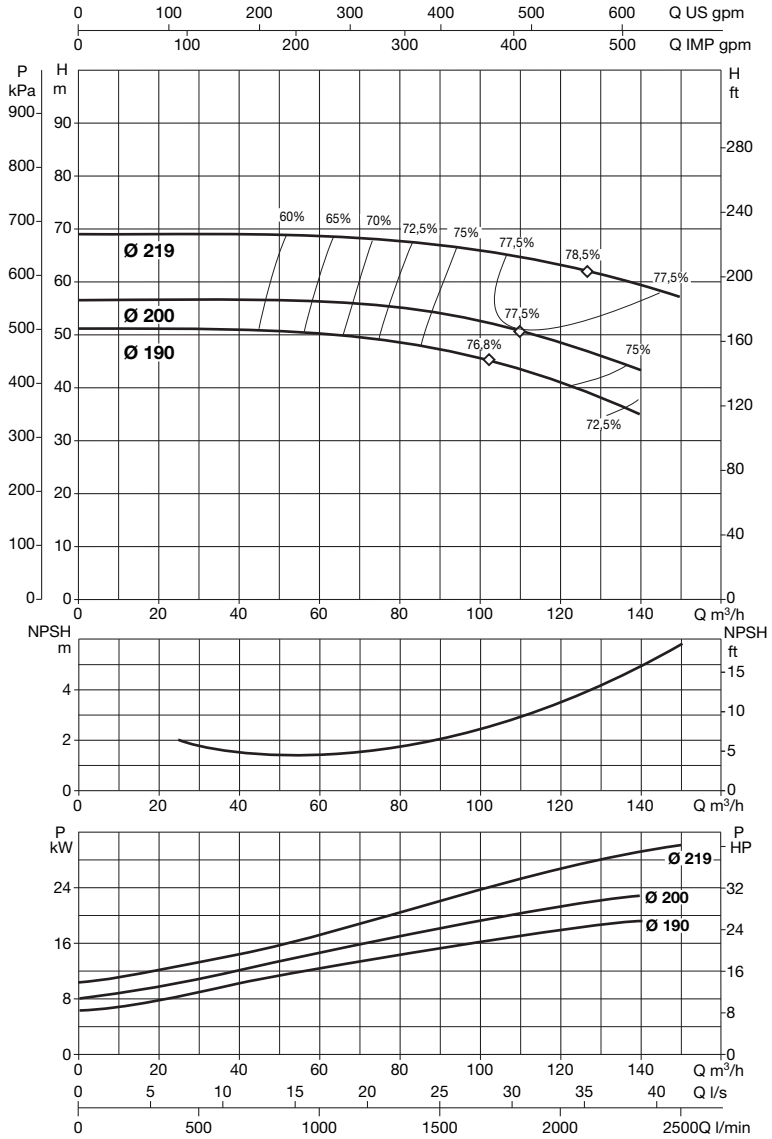
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	48	60	72	78	84	102	120	150
						l/min	0	800	1000	1200	1300	1400	1700	2000	2500
NKP-G 65-160/157/11 /2	MEC 160 M	400 V ∅	11	15	20.4	H (m)	32.5	32.3	31.9	30.2	30	29.2	27	23.6	–
NKP-G 65-160/173/15 /2	MEC 160 M	400 V ∅	15	20	27.5		40.1	39.7	39.5	39	38.5	38.2	36	33.5	26.9

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-G 65-200 ≅ 2900 1/min





MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 65-200/190/18,5 /2	80	65	100	67	254	540	350	160	225	343	–	–	314	254	M12	351	100	20	28	1030	530	640	0,349	225
NKP-G 65-200/200/22 /2	80	65	100	74	241	580	350	180	225	343	–	–	345	279	M12	364	100	–	28	1030	530	640	0,349	263
NKP-G 65-200/219/30 /2	80	65	100	85	305	640	400	200	225	343	–	–	388	318	M14	376	100	–	28	1130	580	740	0,485	354

MODEL	ELECTRICAL DATA					HYDRAULIC DATA								
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	48	60	72	78	84	102	120	150
						Q l/min	0	800	1000	1200	1300	1400	1700	2000	2500
NKP-G 65-200/190/18,5 /2	MEC 160 L	400 V ∅	18.5	25	33.5	H (m)	51.1	51	50.5	49	48.5	48	45	41	–
NKP-G 65-200/200/22 /2	MEC 180 M	400 V ∅	22	30	39.5		56.4	56.1	56	55.5	55	54.8	53	49	–
NKP-G 65-200/219/30 /2	MEC 200 L	400 V ∅	30	40	52.5		68.9	68.8	68.7	68.6	68.5	68.4	66	63.1	57

DAB PUMPS reserve the right to make modifications without prior notice

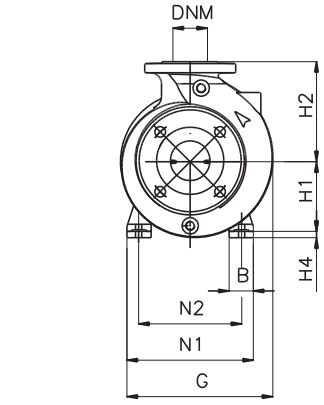
DAB PUMP PERFORMANCE

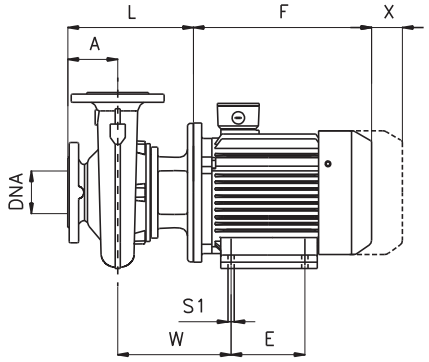
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

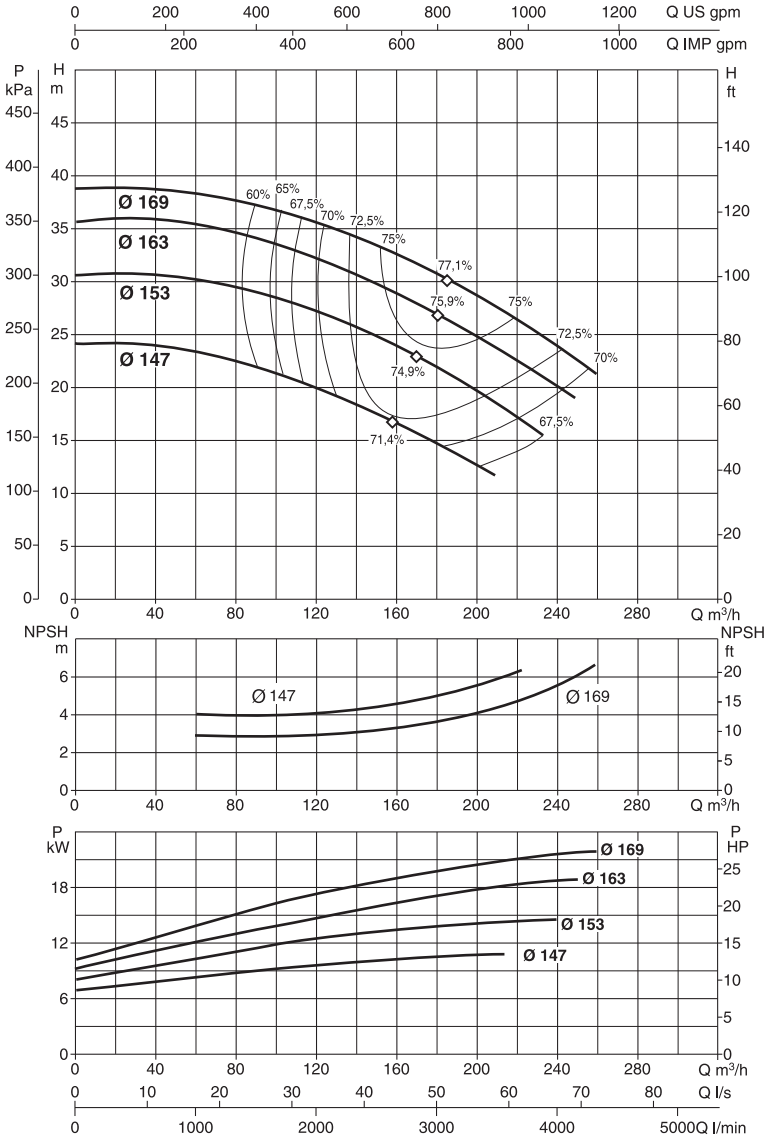
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-G 80-160

≅ 2900 1/min







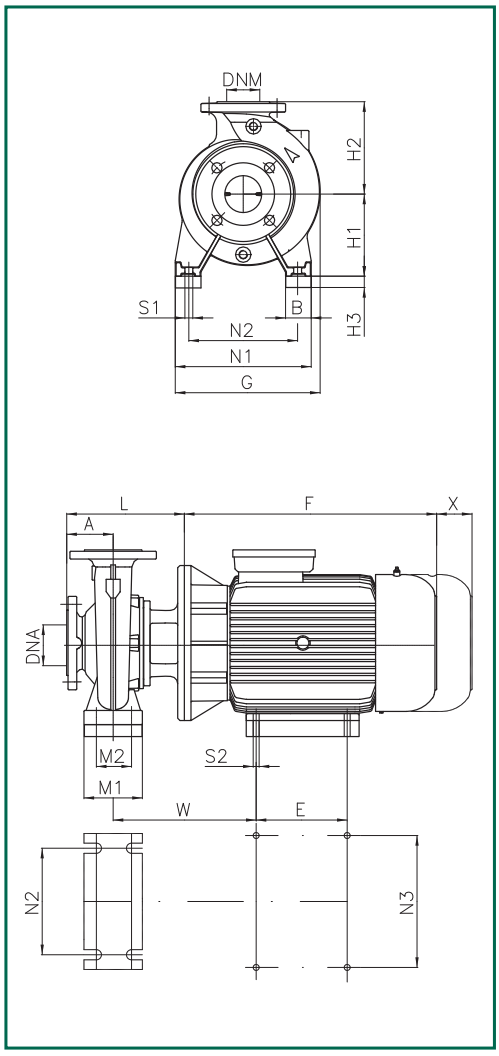
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	S1	W	X	H4	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-G 80-160/147-127/11 /2	100	80	125	67	210	460	350	160	225	368	–	–	314	254	M12	351	140	20	28	1030	530	640	0,349	202
NKP-G 80-160/153/15 /2	100	80	125	67	210	460	350	160	225	368	–	–	314	254	M12	351	140	20	28	1030	530	640	0,349	208
NKP-G 80-160/163/18,5 /2	100	80	125	67	254	540	350	160	225	368	–	–	314	254	M12	351	140	20	28	1030	530	640	0,349	225
NKP-G 80-160/169/22 /2	100	80	125	74	241	580	350	180	225	368	–	–	345	279	M12	364	140	–	28	1130	580	740	0,485	261

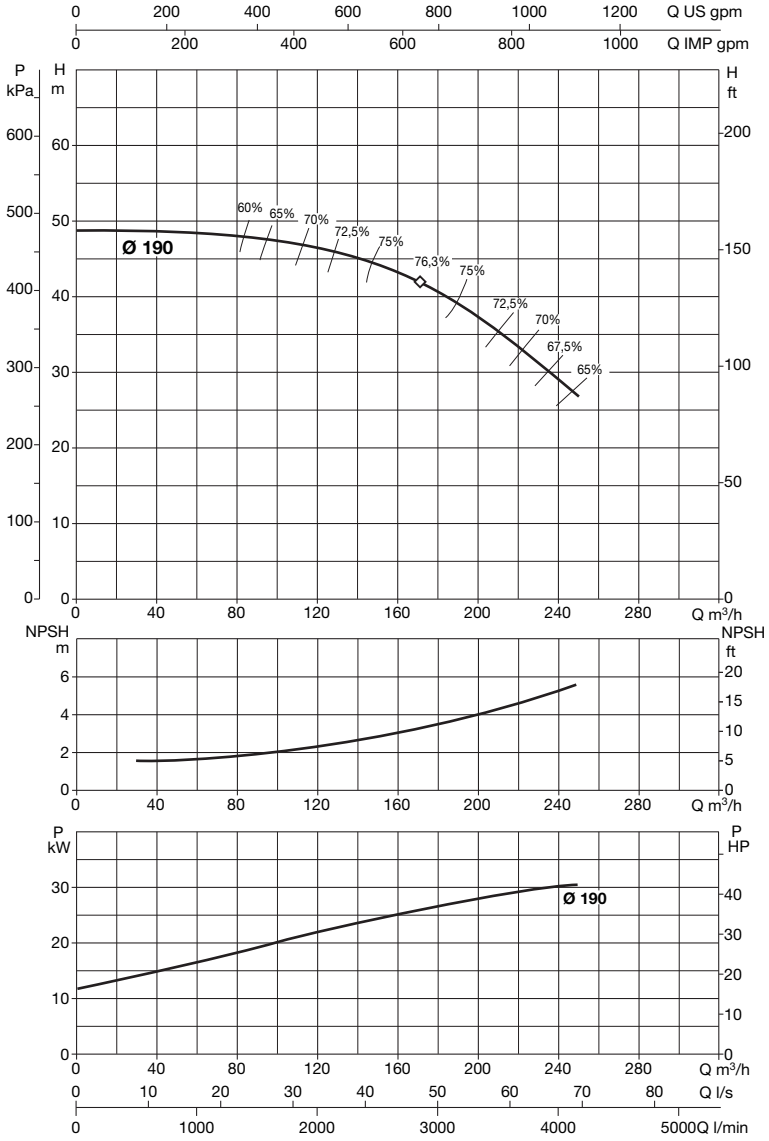
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	90	102	114	120	150	180	210	240
						l/min	0	1500	1700	1900	2000	2500	3000	3500	4000
NKP-G 80-160/147-127/11 /2	MEC 160 M	400 V ∅	11	15	20.4	H (m)	24	22	21.4	20.4	20	17.4	14.8	12	–
NKP-G 80-160/153/15 /2	MEC 160 M	400 V ∅	15	20	27.5		30.5	29	28.4	27.5	27	24.5	21.3	18.3	–
NKP-G 80-160/163/18,5 /2	MEC 160 L	400 V ∅	18.5	25	33.5		35.5	34.3	33.6	32.6	32.3	29.8	26.8	23.6	20
NKP-G 80-160/169/22 /2	MEC 180 M	400 V ∅	22	30	39.5		38.5	37.2	36.8	36	35.8	33.5	30.8	27.5	24

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-G 80-200 ≅ 2900 1/min





MODEL	DNA	DNM	A	B	E	F	G	H1	H2	L	M1	M2	N1	N2	N3	S1	S2	W	X	H3	Ø (mm) Mech. seal	PACKING DIMEN- A	B	H	Vol.	Weight Kg
NKP-G 80-200/190/30 /2	100	80	125	65	305	640	400	180	250	398	125	95	345	280	318	M10	M16	406	140	20	38	1130	580	740	0,485	377

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	90	102	114	120	150	180	210	240
						Q l/min	0	1500	1700	1900	2000	2500	3000	3500	4000
NKP-G 80-200/190/30 /2	MEC 200 L	400 V ∅	30	40	52.5	H (m)	48.3	47.9	47.6	47.5	47.3	44.7	41	36	29

DAB PUMPS reserve the right to make modifications without prior notice

DAB PUMP PERFORMANCE

SHIMS

Available on request separately from the pump.
Used to level the pump during installation so as to make up for the difference in centreline heights between the pump and the motor.
The kit comprises two shims with dimensions A (width), B (length), H (height) shown in the table.
The shims with a height of over 20 mm are supplied complete with screws, nuts and washers in order to fix them to the pump and motor.

4 POLES ELECTRIC PUMP

PARTS	P2 kW	DIMENSIONS A x B x H mm.	ref.
NKM-G 65-315/309/11 /4	11	90 X 335 X 65	*
NKM-G 80-250/270/11 /4	11	80 X 290 X 40	*
NKM-G 80-315/305/15 /4	15	90 X 335 X 90	*
NKM-G 80-315/320/18,5 /4	18,5	100 X 320 X 70	*
NKM-G 80-315/334/22 /4	22		*
NKM-G100-250/250/11 /4	11	90 X 335 X 65	*
NKM-G100-250/270/15 /4	15		*
NKM-G100-315/300/18.5 /4	18,5	100 X 320 X70	*
NKM-G100-315/316/22 /4	22		*
NKM-G125-250/243/15 /4	15	90 X 335 X 90	*
NKM-G125-250/256/18,5 /4	18,5	100 X 320 X 70	*
NKM-G125-250/266/22 /4	22		*
NKM-G150-200/218/11 /4	11	80 X 290 X 120	*

* Shim to fit under the feet of the motor
** Shim to fit under the feet of the pump

2 POLES ELECTRIC PUMP

PARTS	P2 kW	DIMENSIONS A x B x H mm.	ref.
NKP-G 32-125/142/ 3 /2	3	50 X 100 X 20	**
NKP-G 32-160/177 /5,5/2	5,5		
NKP-G 40-125/130/ 3 /2	3		
NKP-G 40-125/139/ 4 /2	4		
NKP-G 40-160/158/ 5,5 /2	5,5		
NKP-G 40-160/172/ 7,5 /2	7,5		
NKP-G 40-200/210/11 /2	11	70 X 332 X 20	*
NKP-G 40-250/230/15 /2	15		
NKP-G 40-250/245/18.5 /2	18,5		
NKP-G 50-125/135/ 5,5 /2	5,5	50 X 100 X 20	**
NKP-G 50-125/144/ 7,5 /2	7,5		
NKP-G 50-160/169/11 /2	11	70 X 332 X 20	*
NKP-G 50-200/200/15 /2	15		
NKP-G 50-200/210/18,5 /2	18,5		
NKP-G 65-160/157/11 /2	11		
NKP-G 65-160/173/15 /2	15		
NKP-G 65-200/190/18,5 /2	18,5		
NKP-G 80-160/147-127/11 /2	11		
NKP-G 80-160/153/15 /2	15		
NKP-G 80-160/163/18,5 /2	18,5		
NKP-G 80-200/190/30 /2	30	70 X 125 X 20	**

COUNTERFLANGE KIT

Available on request separately from the pump.
The kit comprises intake and delivery counterflanges with the relative gaskets, screws and nuts required by the size of the pump to which it refers.

PARTS	COUNTERFLANGES AND GASKETS	THREADED	TO WELD	MATERIAL	PN
DIN 32	1XDN 32 + 1XDN 50	YES	YES	STEEL	16
DIN 40	1XDN 40 + 1XDN 65	YES	YES	STEEL	16
DIN 50	1XDN 50 + 1XDN 65	YES	YES	STEEL	16
DIN 65	1XDN 65 + 1XDN 80	NO	YES	STEEL	16
DIN 80	1XDN 80 + 1XDN 100	NO	YES	STEEL	16
DIN 100	1XDN 100 + 1XDN 125	NO	YES	STEEL	16
DIN 125	1XDN 125 + 1XDN 150	NO	YES	STEEL	16
DIN 150	1XDN 150 + 1XDN 200	NO	YES	STEEL	16 (10 X DN 200)

NKM-GE NKP-GE

ENBLOC, CENTRIFUGAL ELECTRIC PUMPS WITH COUPLING MADE TO DIN-EN 733, WITH CONSTANT DIFFERENTIAL PRESSURE, COMPLETE WITH PRESSURE DIFFERENTIAL SENSOR

CE

GENERAL DATA

Applications

Enbloc, centrifugal electric pumps with coupling designed for a wide range of applications such as:
- Circulation of hot water for heating systems.
- Circulation of cold water for air conditioning.
- Circulation of cold water for refrigeration.

Particularly versatile thanks to the use of the HYDRODRIVER, it offers performance features that automatically adapt to the various system requirements whilst keeping differential pressures constant.

Pump constructional characteristics

Single-stage, cast iron spiral body made to DIN-EN 733 (formerly DIN 24255),
cast iron support, flanges in accordance with DIN 2533 and DIN 2532 for DN 200.
Impeller in cast iron, encased and dynamically balanced with compensation of the
axial thrust by means of balancing holes, operating (on request) with interchangeable
consumable rings. AISI 304 stainless steel pump shaft.
Seal: standardised mechanical seal made to DIN 24960 in carbon/carborundum with O' ring in EPDM.

Motor constructional characteristics

Closed, asynchronous motor with external ventilation, construction type B3/B5, 2 poles for NKP-GE and 4 poles for NKM-GE. Rotor mounted on oversized maintenance-free greased ball bearings to ensure silent running and long life. For the protection of the motor it is advisable to use a suitable overload protection complying with the regulations in force. In the case of liquids denser than water, the motors must be proportionally more powerful.
Built to IEC 2-3 standards
Protected to: IP 55
Insulation class: F

Standard voltage:	single-phase	1x208/240 V - 50-60 Hz
	three-phase	3x380/480 V - 50-60 Hz

DAB PUMPS reserve the right to make modifications without prior notice

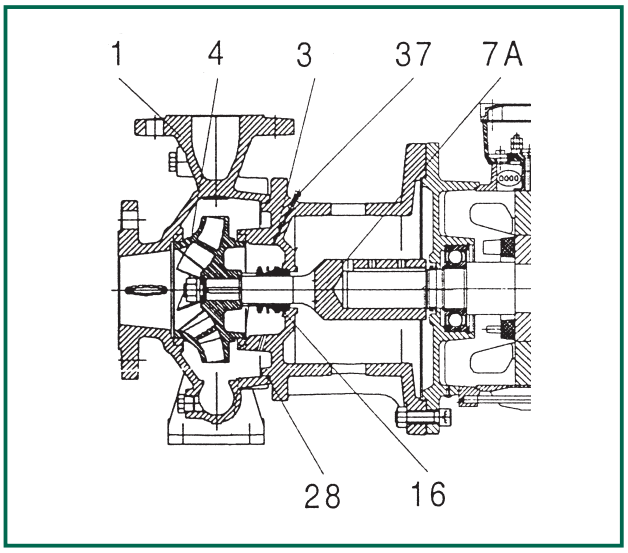
Electronic part constructional characteristics (HYDRODRIVER)

Adjustment unit directly mounted on the electric pump that, by using the signal of the standard differential transducer, already connected and ready to use, modulates the speed of rotation in order to keep costant the differential pressure of the system on which it is used.
The HYDRODRIVER uses an integrated microprocessor that can work with the recent IGBT technology which offers higher levels of reliability and flexibility. The high frequency impulse width modulation procedure makes the motor work very silently, ensuring elevated starting torque with a current increase programmed and calibrated by the maker. The device also guarantees gradual acceleration and deceleration ramps (softstart) thereby preventing hammering effects. It protects the motor it is mounted on with numerous protection systems against overloads, missing phases, overvoltage and undervoltage with a 5-try automatic reset feature.

Supplied standard with:

- remote control terminals (start/stop)
- economy function adjustment terminals
- enable terminals for connecting the back-up pump (twin version)
- terminals for powering a remote alarm (potential-free)
- Status LED's
- Adjustment knob for easy calibration of the required set-point.
- Class B integrated radio frequency disturbance filter (EN 55022 level B1)
- integrated ventilation device (from 2.2 kW to 7,5 kW)

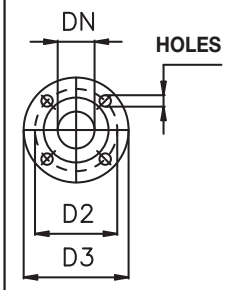
TECHNICAL DATA



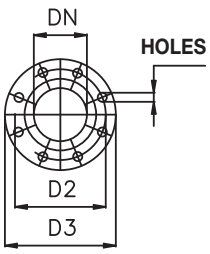
N.	PARTS	MATERIALS (STANDARD VERSION)
1	PUMP BODY	CAST IRON 250 UNI ISO 185
3	SUPPORT	CAST IRON 250 UNI ISO 185
4	IMPELLER	CAST IRON 250 UNI ISO 185
7A	PUMP SHAFT	STAINLESS STEEL AISI 304 - UNI 6900/71
16	MECHANICAL SEAL	CARBON/CARBORUNDUM - EPDM
28	GASKET OR	EDPM
	BLEED COCK	STAINLESS STEEL AISI 304 - UNI 6900/71

N.	PARTS	MATERIALS (STANDARD VERSION)
4	IMPELLER	BRONZE GCuSn5Zn5Pb5 UNI 7013/8a-72
16	MECHANICAL SEAL	CARBORUNDUM/CARBORUNDUM - EPDM CARBORUNDUM/CARBORUNDUM - VITON CARBON/CARBORUNDUM - VITON

Speed of rotation:	1450 - 2900 1/min.
- Operating range	from 1 to 210 m^3/h with a head of up to 60 m
- Pumped liquid:	clean, free from solids or abrasive substances, not viscous, not aggressive, not crystallised and chemically neutral and close to the characteristics of water.
- Liquid temp. range:	from -10°C to +140°C.
- Max. ambient temperature:	+40°C.
- Maximum operating pressure:	16 bar - 1600 kPa (for DN 200 max. 10 bar).
- Flanging:	PN 16 DIN 2533
- Installation:	normally horizontal or vertical provided the motor is always above the pump.
- Special versions on request:	pumps for liquids other than water. Other voltages and/or frequencies. Inverter modulation with 0-10V signal



		Nominal diameter (DN)			
		DIN 2533 PN 16			
DN		32	40	50	65
D2		100	110	125	145
D3		140	150	165	185
HOLES	Ø	18			
	N°	4			



Nominal diameter (DN)				
DIN 2533 PN 16				DIN 2532 PN 16
80	100	125	150	200
160	180	210	240	295
200	220	250	285	340
18				22
8				8

Description of the product

NKM-G E 100 - 200 / 198/ A W /BAQE / 5,5 /4

NKM = 4 poles
NKP = 2 poles
G = With coupling
E = motor with HIDRODRIVER
Nominal diameter of delivery mouth:
Nominal impeller diameter:
Actual impeller diameter:
Code for materials:
A = Cast iron
B = Cast iron with bronze impeller
Wear rings (if present)
Seal description
Motor power in kW
Pole number
4P = 4 poles
2P = 2 poles

Description of the mechanical seal

Item	Code	Description of the seal
1	A	O ring with fixed guide
	B	Rubber bellows seal
	C	O ring with spring guide
	D	Balanced O ring
	M	Metal bellows seal
	X	Other seal types
Item	Code	Materials
2 & 3	A	Impregnated carbon/metal
	B	Impregnated carbon/resin
	C	Other carbon types
	S	Chromium steel
	U	Tungsten carbide
	Q	Carborundum
	V	Aluminium oxide (ceramic)
	X	Other ceramic types
Item	Code	Materials
4	P	Nitrile rubber (NBR)
	S	Silicone rubber
	T	Teflon (PTFE)
	E	EPDM
	V	Viton
	M	PTFE coated O ring
Item	Code	Materials
5	v	Reinforced

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Description of the product code

Impeller's nominal diameter	Code
125	1
160	2
200	3
250	4
315	5
125.1	K
160.1	L
200.1	M

Pump type	Code
32	1
40	2
50	3
65	4
80	5
100	6
125	7

Identification	Code
DAB PUMPS S.p.A.	D

	Code
DAB PUMPS S.p.A.	1

Code	Pump/impeller materials
1	A (01) = cast iron/cast iron
2	B (03) = cast iron/bronze
5	A (01) + Wr*
6	B (03) + Wr*

* With consumable rings

Code	Seal available
1	BAQE
5	BQQV*
7	BAQV*
G	BQQE*

* On request

Code	Pump type
B	NKM-G / NKP-G

Code	P2 nominal kW
1	0,37
2	0,55
3	0,75
4	1,1
5	1,5
6	2,2
7	3
8	4
9	5,5
A	7,5

Code	Voltage
6	with inverter - E)

PERFORMANCE RANGE
NKM-GE

NUMERICAL SELECTION TABLE
≅ 1450 1/min

MODEL	P2 NOMINAL KW	P2 NOMINAL HP	Q m³/h	0	6	12	18	24	30	36	42	48	54	60
			l/min	0	100	200	300	400	500	600	700	800	900	1000
NKM-GE 32-125.1/140/0.25/4	0.25	0.33		6.2	5.8	4.2								
NKM-GE 32-125/142/ 0.37/4	0.37	0.5		7	6.75	5.85	4.2							
NKM-GE 32-160.1 169/0.37/4	0.37	0.5		8.9	8.2	4.6								
NKM-GE 32-160/169/0,55/4	0.55	0.75		9.4	9	7.9	5.6							
NKM-GE 32-200.1 200/0,55/4	0.55	0.75		12.7	11.2	7.2								
NKM-GE 32-200/200/ 0,75/4	0.75	1		13	12.5	11.1	8.45							
NKM-GE 32-200/219/ 1,1 /4	1.1	1.5		16	15.4	14.3	12.2							
NKM-GE 40-125/115/ 0.25/4	0.25	0.33		4.2	4.1	3.7	3	2.1						
NKM-GE 40-125/130/ 0.37/4	0.37	0.5		5.4	5.3	5.	4.4	3.5						
NKM-GE 40-125/142/ 0.55/4	0.55	0.75		6.6	6.5	6.2	5.7	4.8						
NKM-GE 40-160/153/ 0.55/4	0.55	0.75		7.6	7.7	7.6	6.7	5.5						
NKM-GE 40-160/166/ 0.75/4	0.75	1		9.2	9.2	9	8.4	7.4	5.7					
NKM-GE 40-200/200/ 1,1 /4	1.1	1.5		12.6	12.6	12.3	11.2	9.7	7.7					
NKM-GE 40-200/219/ 1,5 /4	1.5	2		15.6	15.6	15.3	14.7	13.4	11.8	9.8				
NKM-GE 40-250/245/ 2,2 /4	2.2	3		20.6	20.5	20.1	19.2	17.8	16					
NKM-GE 40-250/260/ 3 /4	3	4		23.3	23.1	22.8	22.2	20.8	19					
NKM-GE 50-125/130/ 0.55/4	0.55	0.75		5.5		5.2	5	4.7	4.3	3.9	3.3	2.6		
NKM-GE 50-125/141/ 0.75/4	0.75	1		6.5		6.3	6.1	5.8	5.5	5	4.5	3.9		
NKM-GE 50-160/161/ 1.1 /4	1.1	1.5		8.7		8.7	8.5	8.2	7.8	7.3	6.7	5.7		
NKM-GE 50-160/177/ 1,5 /4	1.5	2	H	10.8		10.8	10.7	10.5	10.2	9.8	9.2	8.3		
NKM-GE 50-200/210/ 2,2 /4	2.2	3	(m)	15.3		15.3	15.2	14.8	14	13.3	12.1	10.8	9.4	
NKM-GE 50-200/219/ 3 /4	3	4		16.8		16.8	16.5	16.1	15.5	14.6	13.6	12.4	10.9	
NKM-GE 50-250/263/ 4 /4	4	5.5		23.8		24	23.8	23.4	22.7	21.6	20.4	19	17.1	
NKM-GE 65-125/130/ 0.75/4	0.75	1		5.1		4.9	4.8	4.75	4.7	4.4	4.2	3.8	3.4	3
NKM-GE 65-125/144/ 1.1 /4	1.1	1.5		6.5		6.4	6.4	6.3	6.2	6	5.75	5.5	5.1	4.65
NKM-GE 65-160/153/ 1,1 /4	1.1	1.5		7.4		7.4	7.3	7.15	6.9	6.65	6.25	5.8	5.3	4.4
NKM-GE 65-160/165/ 1,5 /4	1.5	2		8.9			8.8	8.7	8.6	8.3	8	7.6	7.15	6.6
NKM-GE 65-160/177/ 2,2 /4	2.2	3		10.5				10.4	10.3	10.2	9.9	9.6	9.2	8.75
NKM-GE 65-200/210/ 3 /4	3	4		15.3				15.4	15.3	15	14.6	14.1	13.5	12.9
NKM-GE 65-200/219/ 4 /4	4	5.5		17				17.2	17.2	17.1	16.8	16.5	16.2	15.7
NKM-GE 65-250/263/ 5,5 /4	5.5	7.5		24.1				23.8	23.6	23.3	22.8	22.3	21.5	20.8
NKM-GE 65-315/279/ 7,5 /4	7.5	10		27							26	25.5	25	24.5
NKM-GE 80-160/153-136/1.5/4	1.5	2		6.5					6.35	6.3	6.2	5.95	5.75	5.55
NKM-GE 80-160/163/ 2,2 /4	2.2	3		8.65					8.5	8.45	8.3	8.15	7.9	7.7
NKM-GE 80-160/177/ 3 /4	3	4		10.2					10.2	10.1	10	9.9	9.75	9.65
NKM-GE 80-200/200/ 4 /4	4	5.5		13.2							13.2	13.2	13.1	12.9
NKM-GE 80-200/222/ 5,5 /4	5.5	7.5		16.5							16.6	16.5	16.4	16.2
NKM-GE 80-250/240/ 7,5 /4	7.5	10		20.5							21	21	21	20.7
NKM-GE100-200/200/ 5.5 /4	5.5	7.5		12.7										12.6
NKM-GE100-200/214/ 7.5 /4	7.5	10		15.6										15.4

DAB PUMPS reserve the right to make modifications without prior notice

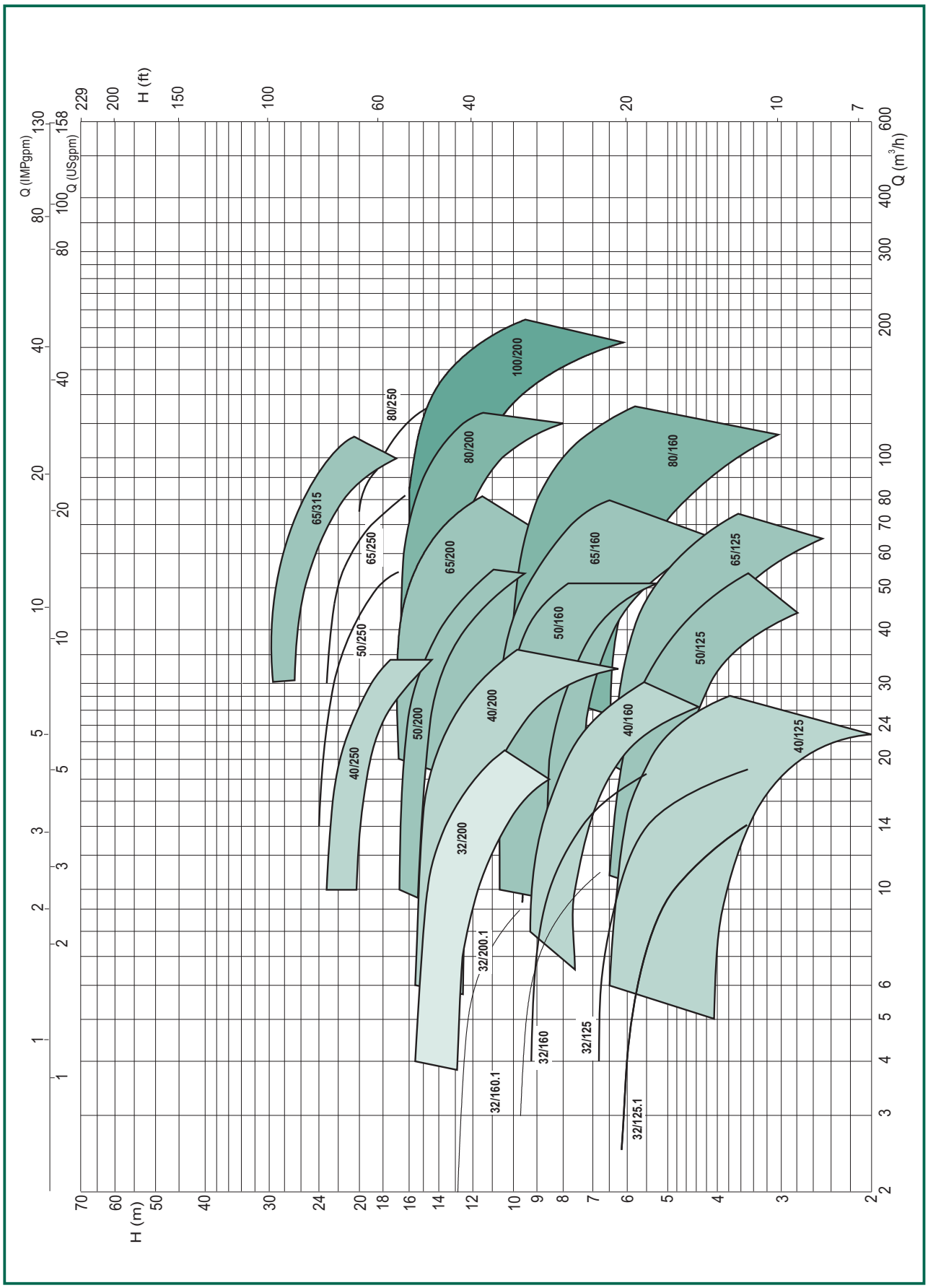
66	72	78	84	90	102	114	120	150	180	210	240	270	300	330	360	390	420
1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
2.5																	
4.2	3.75																
6																	
8.2	7.4	6.6															
12.2	11.3																
15.1	14.3	13.6	12.6														
19.7	18.6	17.3															
23.6	22.7	21.5	20.2	19													
5.3	5	4.7	4.5	4.25	3.65	3											
7.4	7.2	6.9	6.65	6.3	5.7	4.9	4.6										
9.5	9.25	9	8.8	8.6	7.9	7.2	6.7										
12.7	12.4	12	11.7	11.3	10.4	9.3	8.7										
16.1	16	15.7	15.4	15	14.3	13.3	12.7										
20.5	20	19.8	19.5	19	18	16.7	16										
12.6	12.5	12.5	12.4	12.3	12	11.5	11.4	10.1	8.5								
15.4	15.3	15.2	15.1	15	14.7	14.5	14.3	13.3	11.6	9.8							

PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

≅ 1450 1/min

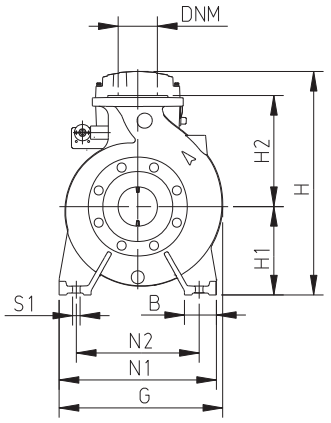


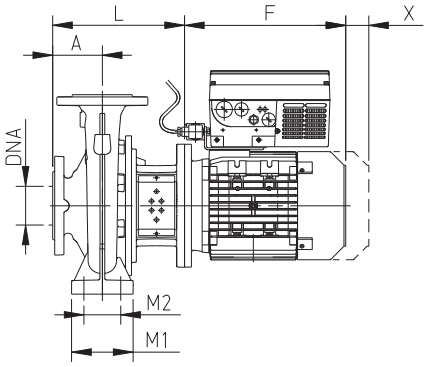
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

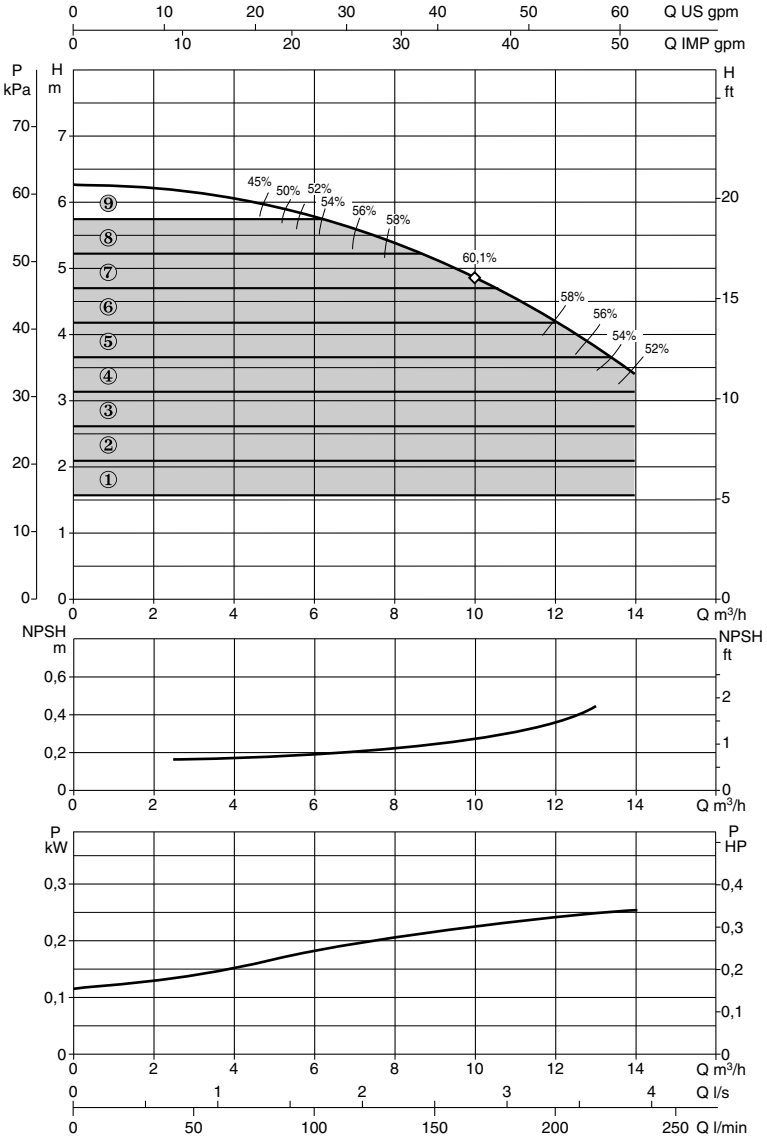
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 32-125.1/140 ≅ 1450 1/min





Motor construction type: B5



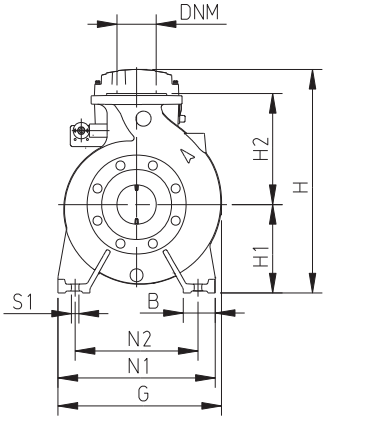
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 32-125.1/140/0.25/4	50	32	80	50	-	215	234	112	140	301	201	100	70	190	140	M12	-	-	100	28	620	370	480	0.11	41

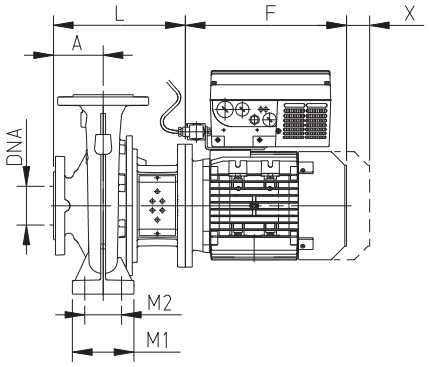
MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						l/min	0	100	200	300
NKM-GE 32-125.1/140/0.25/4	MEC 71	1x208/240 V	0.25	0.33	1,2-0,7	H (m)	6.2	5.8	4.2	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

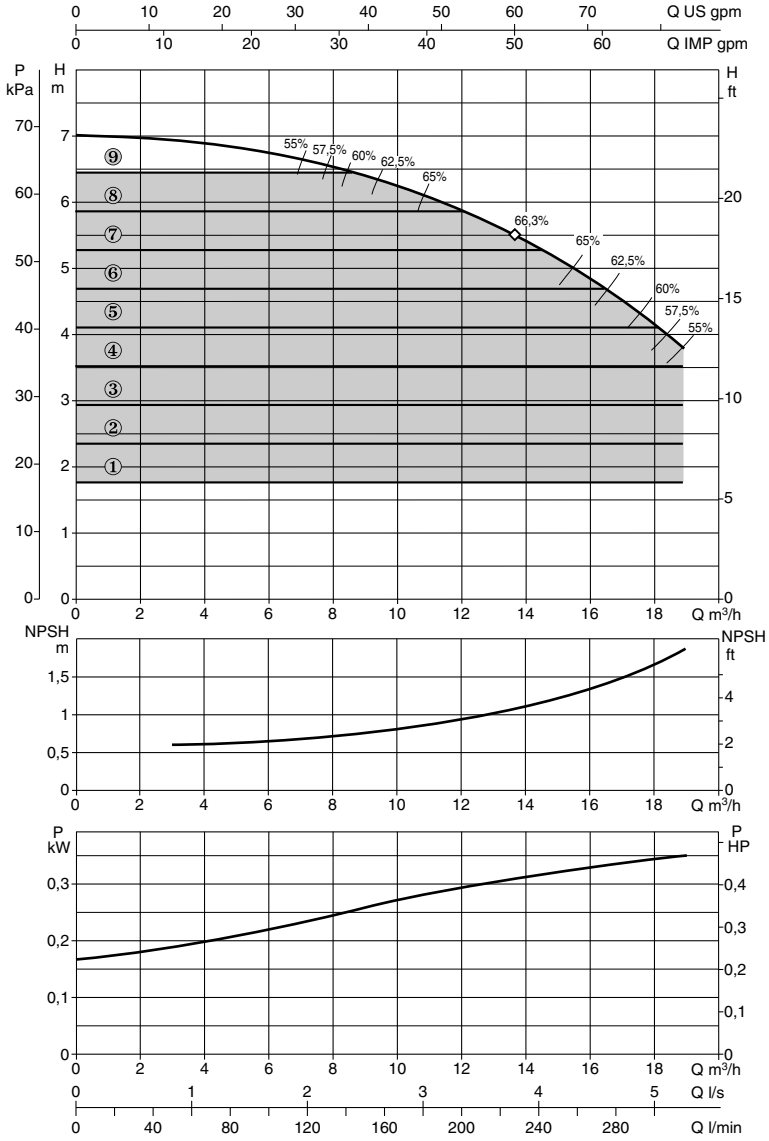
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 32-125/142 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 32-125/142/ 0.37/4	50	32	80	50	-	215	234	112	140	301	201	100	70	190	140	M12	-	-	100	28	620	370	480	0.11	42

MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						l/min	0	100	200	300
NKM-GE 32-125/142/ 0.37/4	MEC 71	1x208/240 V	0.37	0.5	2-1.18	H (m)	7	6.75	5.85	4.2

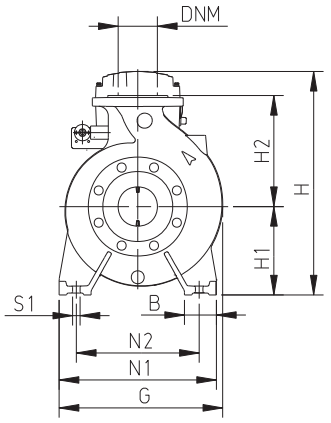
DAB PUMPS reserve the right to make modifications without prior notice

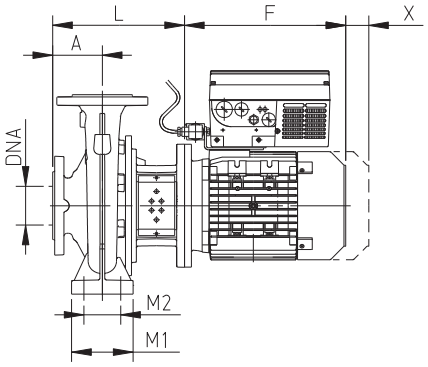
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

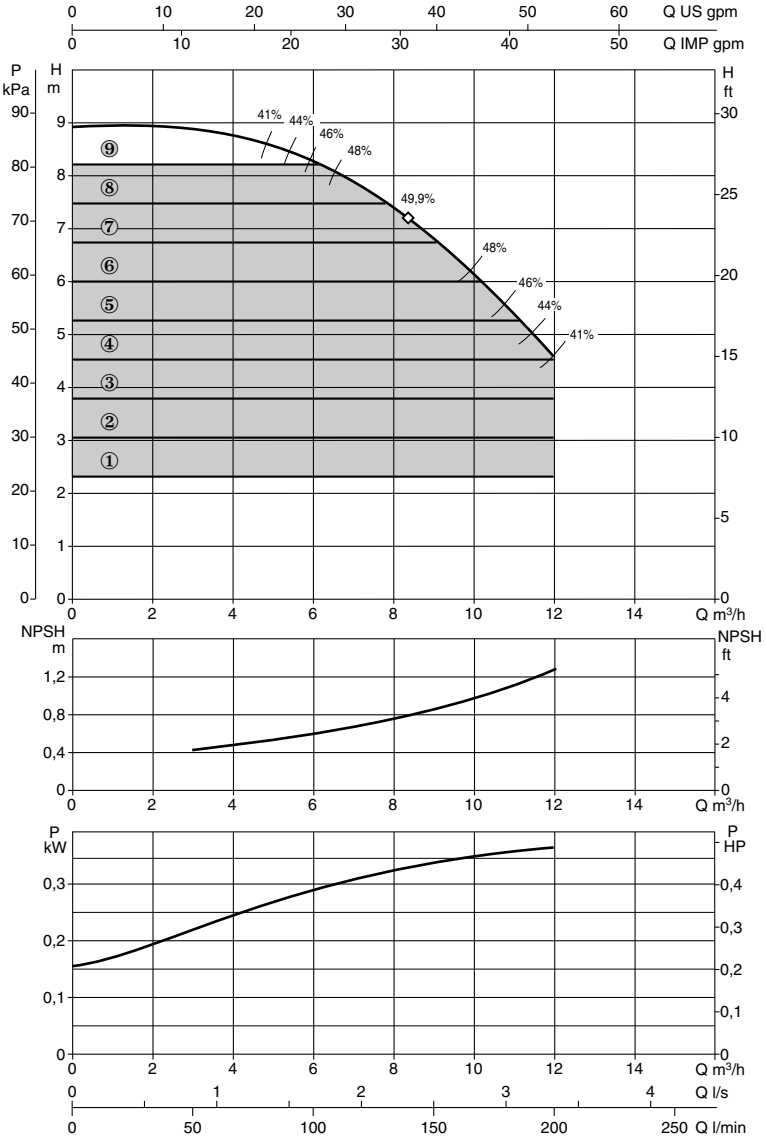
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 32-160.1/169 ≅ 1450 1/min





Motor construction type: B5



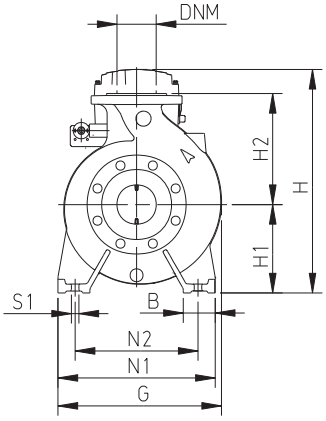
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 32-160.1/169/0.37/4	50	32	80	50	-	215	245	132	160	321	201	100	70	240	190	M12	-	-	100	28	620	370	480	0,11	45,6

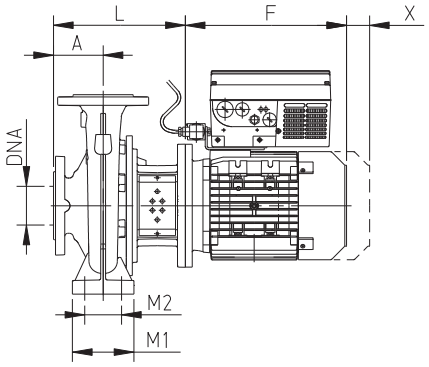
MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						l/min	0	100	200	300
NKM-GE 32-160.1/169/0.37/4	MEC 71	1x208/240 V	0.37	0.5	2-1.18	H (m)	8.9	8.2	4.6	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

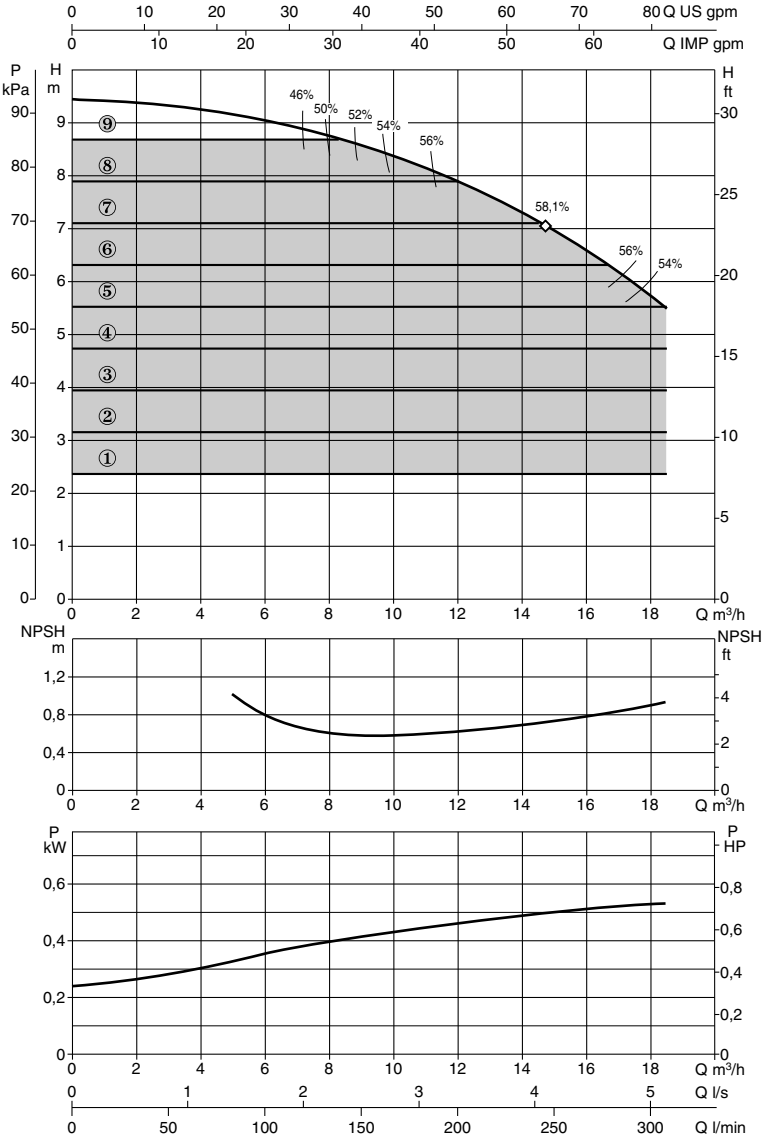
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 32-160/169 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 32-160/169/0,55/4	50	32	80	50	-	232	245	132	160	330	226	100	70	240	190	M12	-	-	100	28	620	370	480	0,11	47,1

MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						Q l/min	0	100	200	300
NKM-GE 32-160/169/0,55/4	MEC 80	1x208/240 V	0.55	0.75	2.8-1.6	H (m)	9.4	9	8.8	5.6

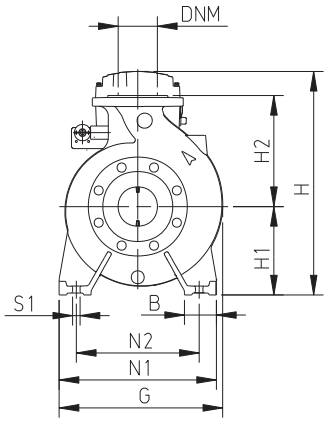
DAB PUMPS reserve the right to make modifications without prior notice

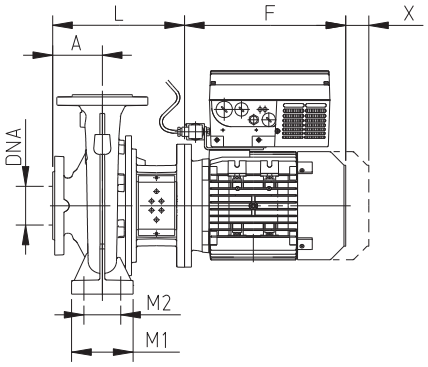
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

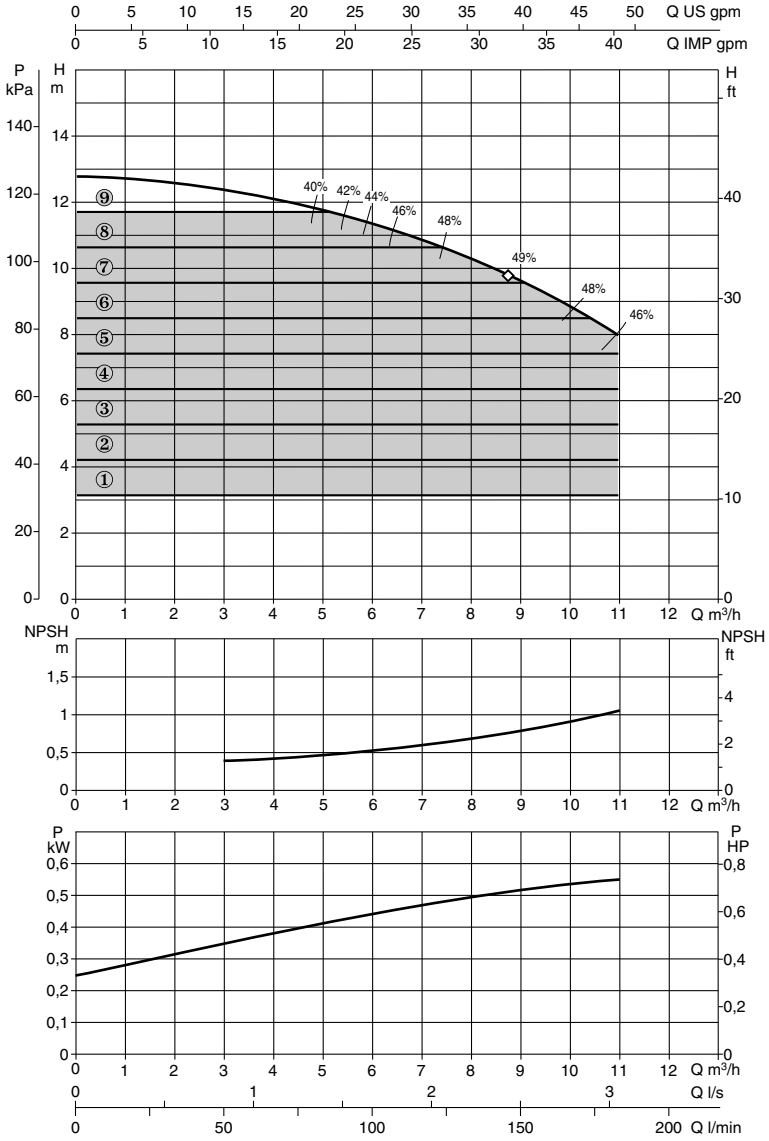
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 32-200.1/200 ≅ 1450 1/min





Motor construction type: B5



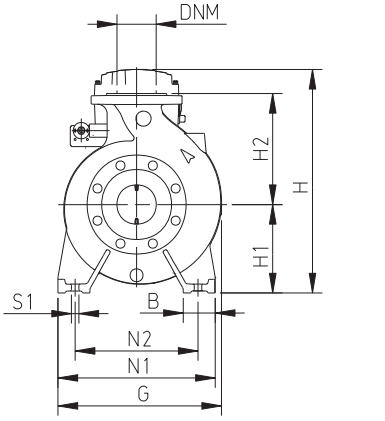
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 32-200.1/200/0,55/4	50	32	80	50	-	232	279	160	180	358	226	100	70	240	190	M12	-	-	100	28	620	370	480	0,11	47,6

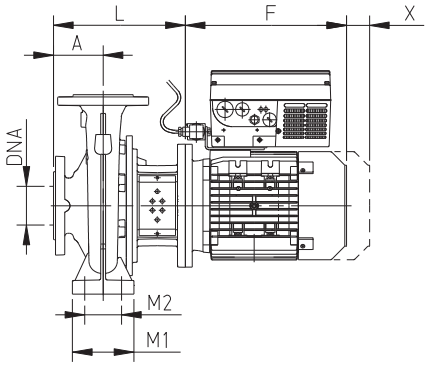
MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						l/min	0	100	200	300
NKM-GE 32-200.1/200/0,55/4	MEC 80	1x208/240 V	0.55	0.75	2.8-1.6	H (m)	12.7	11.2	7.2	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

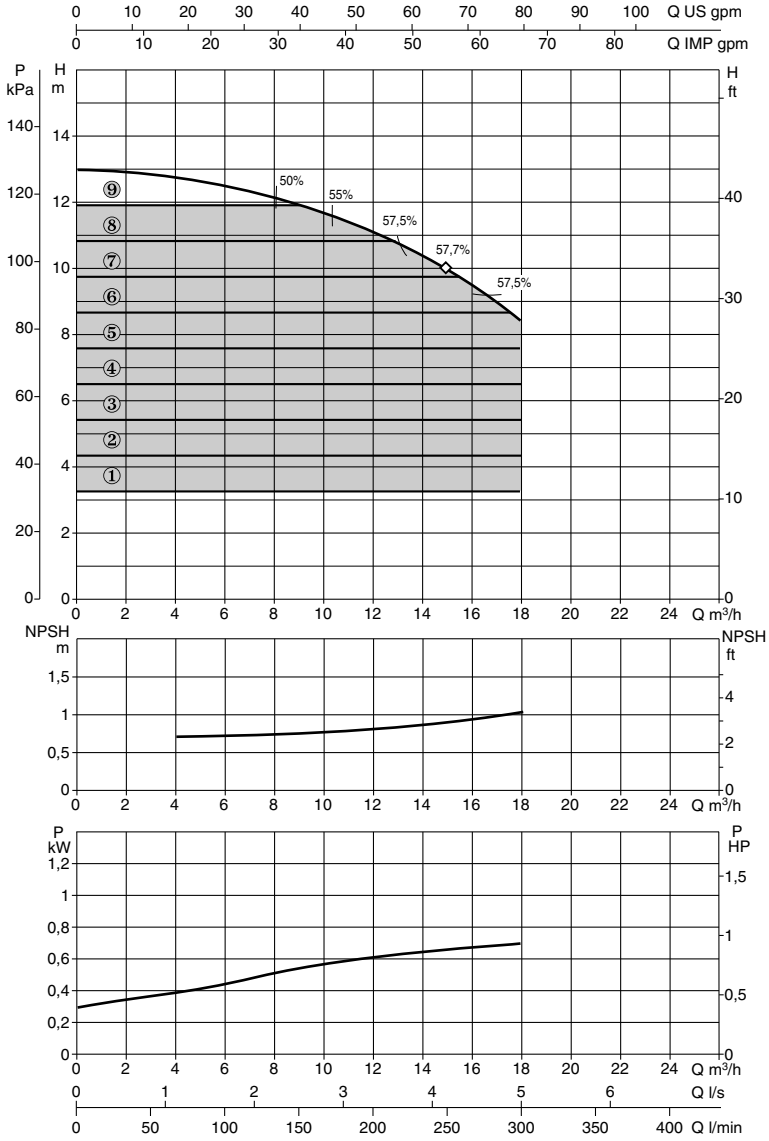
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 32-200/200 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 32-200/200/ 0,75/4	50	32	80	50	-	232	279	160	180	358	226	100	70	240	190	M12	-	-	100	28	620	370	480	0,11	51,1

MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						l/min	0	100	200	300
NKM-GE 32-200/200/ 0,75/4	MEC 80	1x208/240 V	0.75	1	3.8-2.2	H (m)	13	12.5	11.1	8.45

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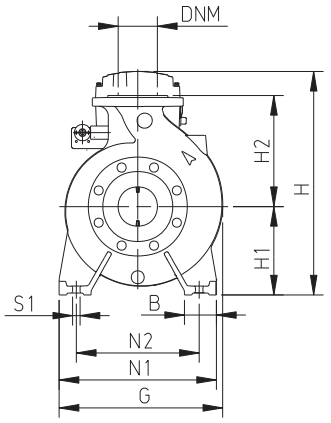
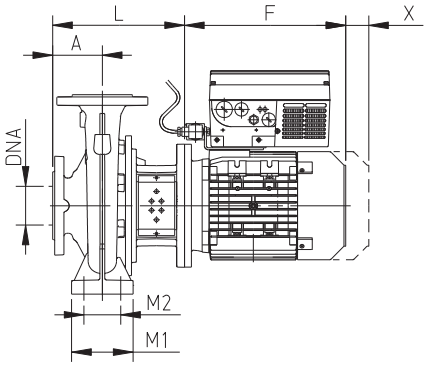
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

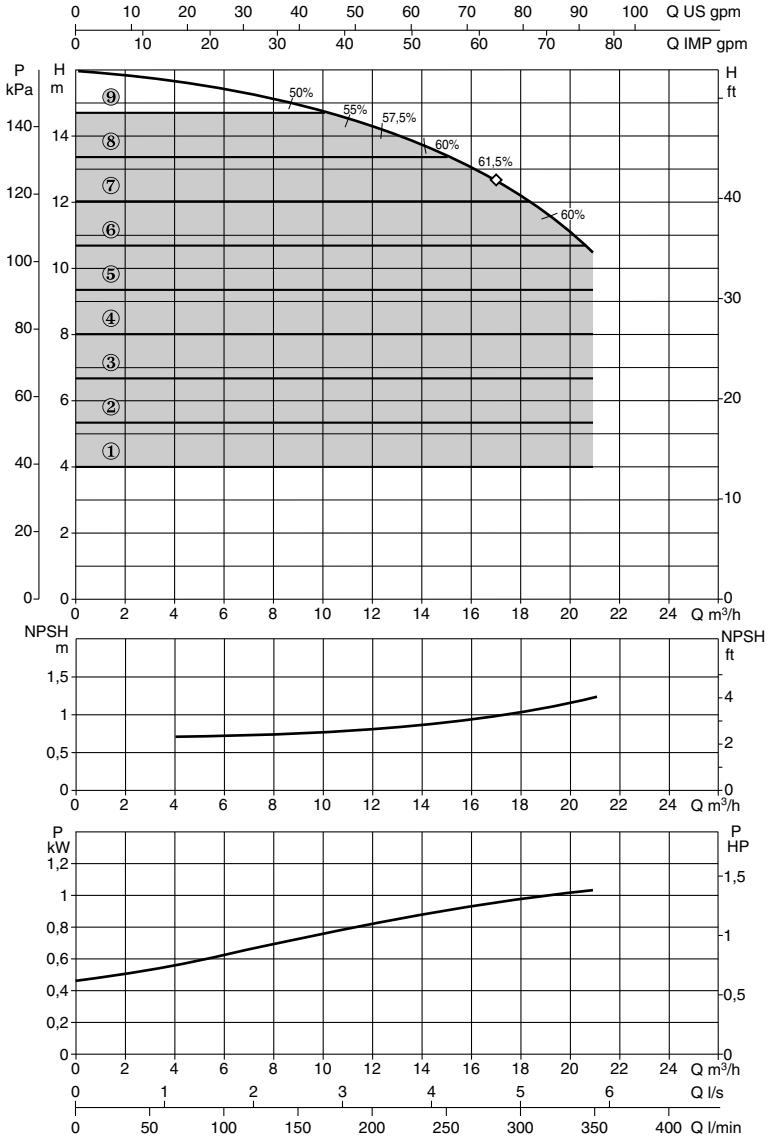
NKM-GE 32-200/219

≅ 1450 1/min





Motor construction type: B5



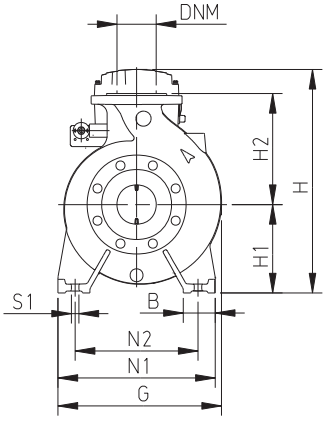
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 32-200/219/1,1 /4	50	32	80	50	-	267	279	160	180	422	226	100	70	240	190	M12	-	-	100	28	620	370	480	0,11	57,3

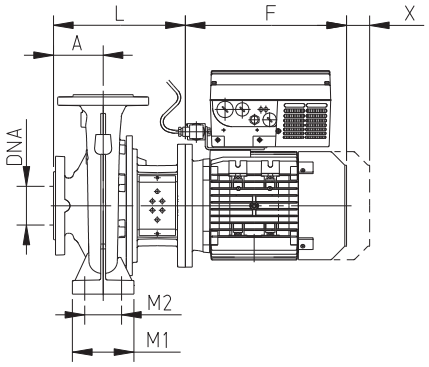
MODEL	ELECTRICAL DATA					HYDRAULIC DATA				
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18
						l/min	0	100	200	300
NKM-GE 32-200/219/1,1 /4	MEC 90 S	3x380/480 V	1.1	1.5	5-2.9	H (m)	16	15.4	14.3	12.2

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

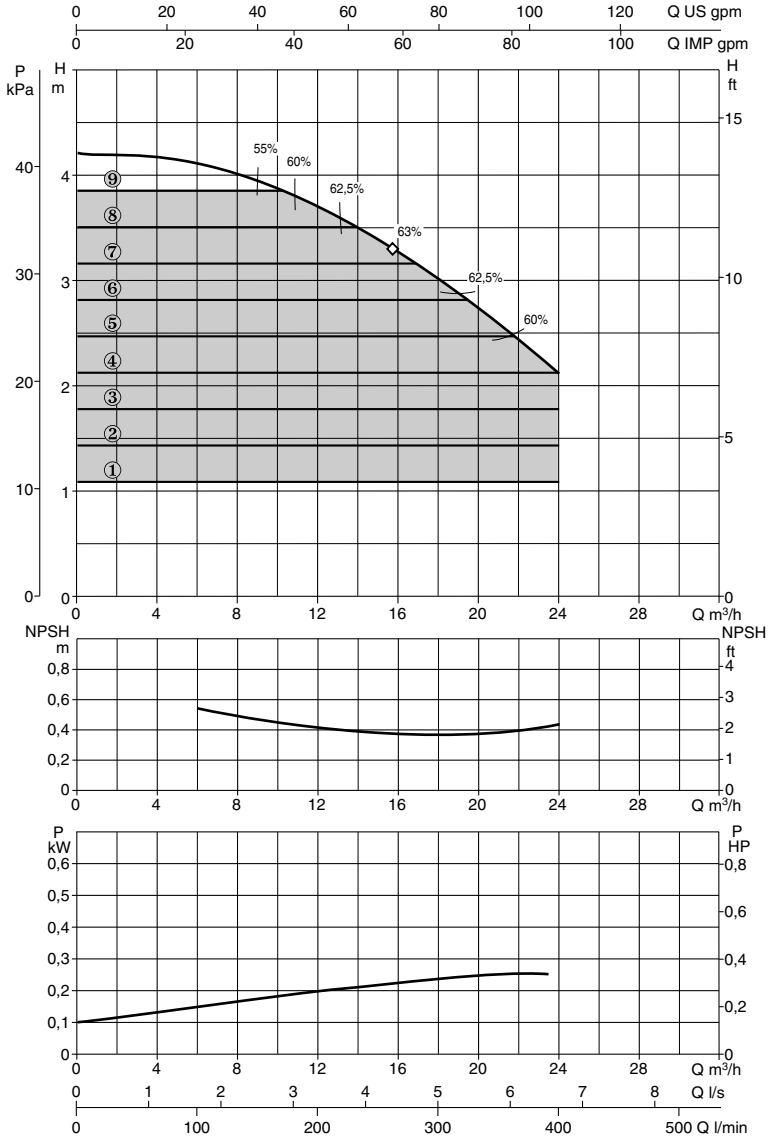
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 40-125/115 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 40-125/115/ 0.25/4	65	40	80	50	-	215	235	112	140	301	201	100	70	210	160	M12	-	-	100	28	620	370	480	0,11	35,6

MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-GE 40-125/115/ 0.25/4	MEC 71	1x208/240 V	0.25	0.33	1.2-0.7	H (m)	4.2	4.1	3.7	3	2.1	–	–

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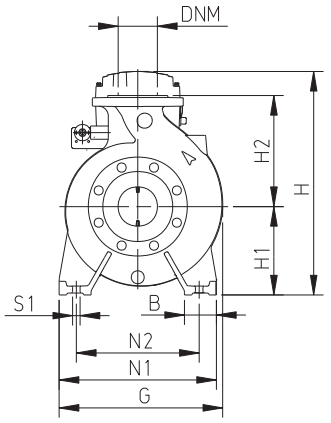
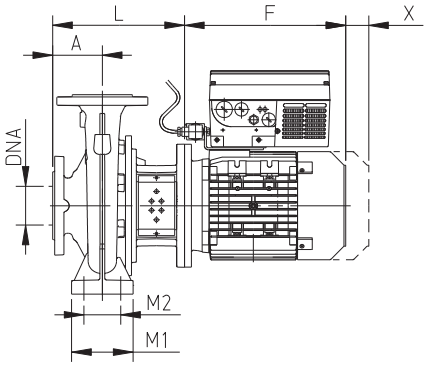
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

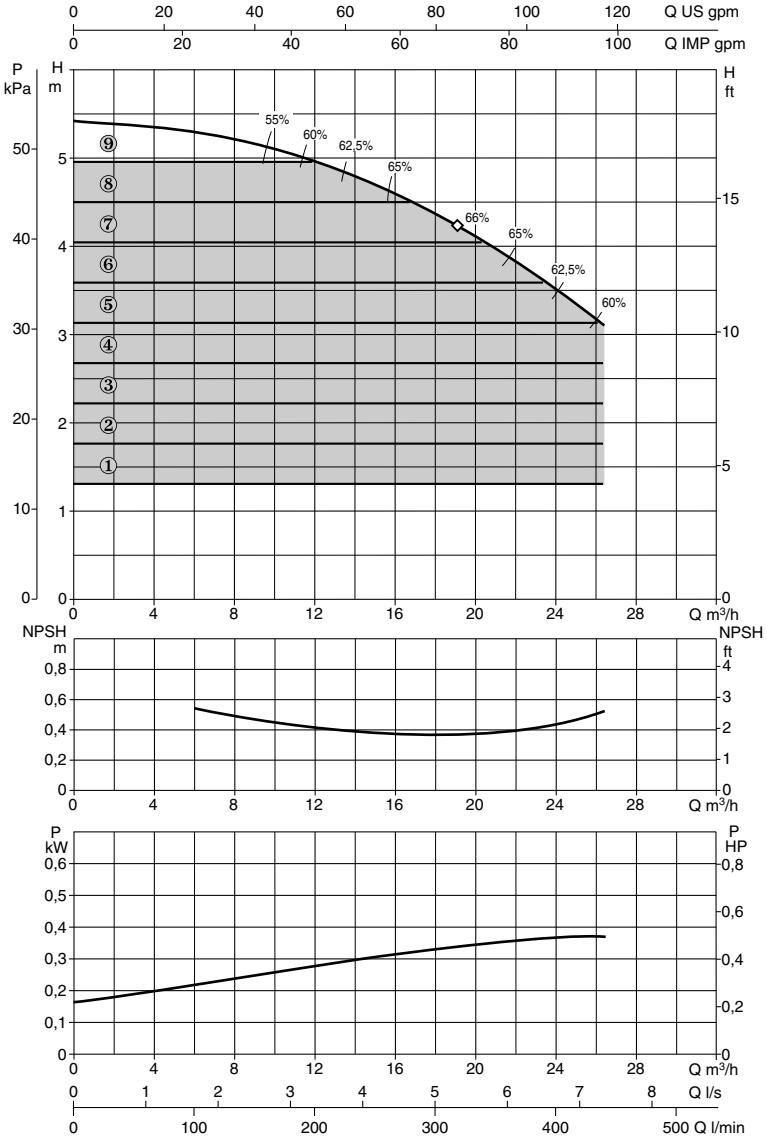
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 40-125/130 ≅ 1450 1/min





Motor construction type: B5



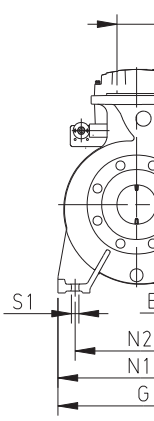
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 40-125/130/ 0.37/4	65	40	80	50	-	215	235	112	140	301	201	100	70	210	160	M12	-	-	100	28	620	370	480	0,11	37,9

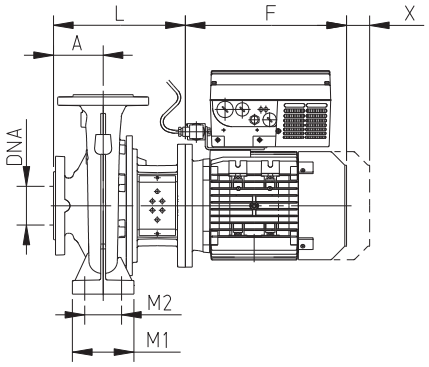
MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-GE 40-125/130/ 0.37/4	MEC 71	1x208/240 V	0.37	0.5	2-1.18	H (m)	5.4	5.3	5	4.4	3.5	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

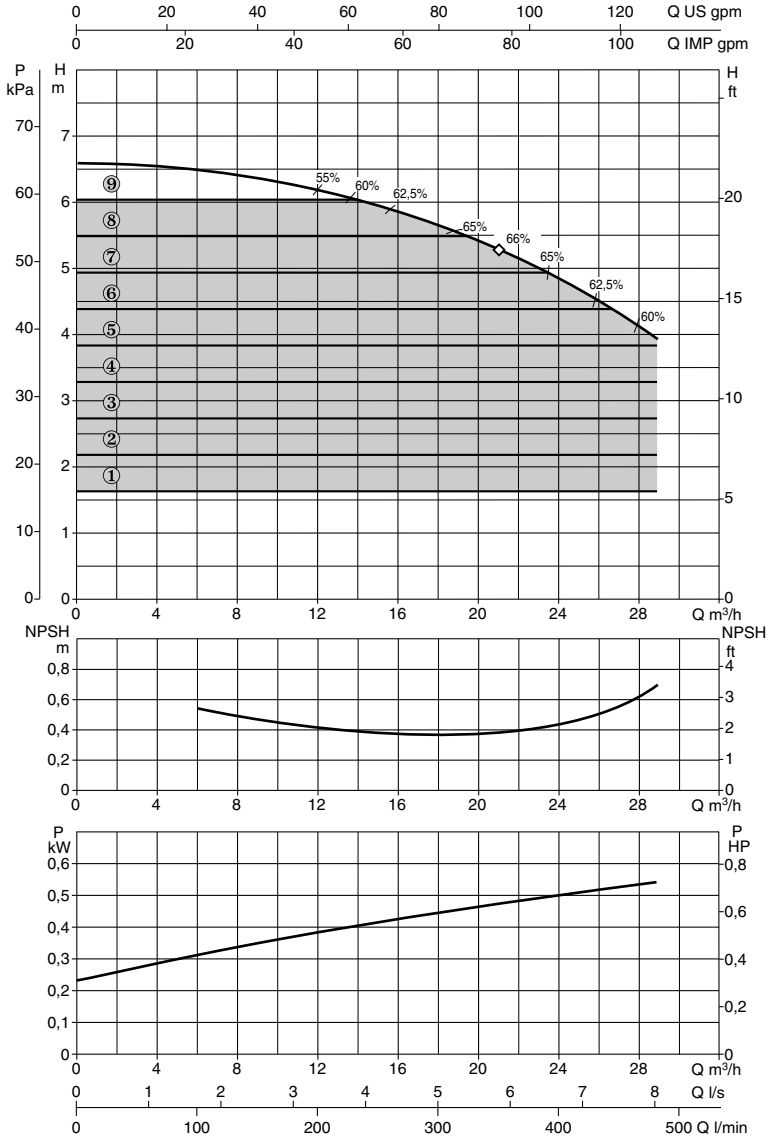
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 40-125/142 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 40-125/142/ 0.55/4	65	40	80	50	-	232	235	112	140	310	201	100	70	210	160	M12	-	-	100	28	620	370	480	0,11	50,6

MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-GE 40-125/142/ 0.55/4	MEC 80	1x208/240 V	0.55	0.75	2.9-1.7	H (m)	6.6	6.5	6.2	5.7	4.8	–	–

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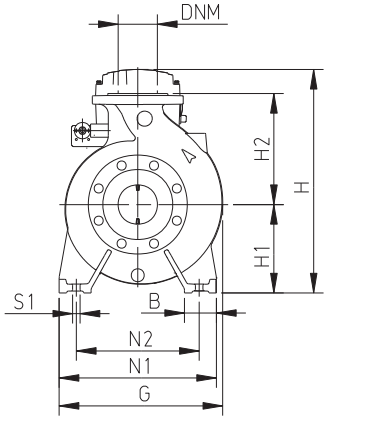
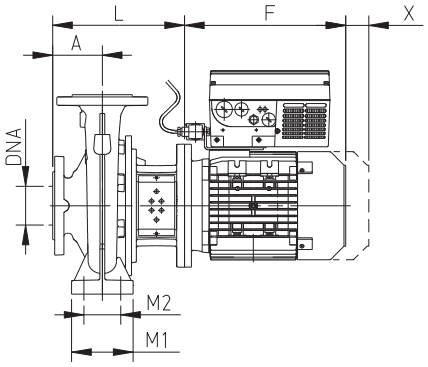
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

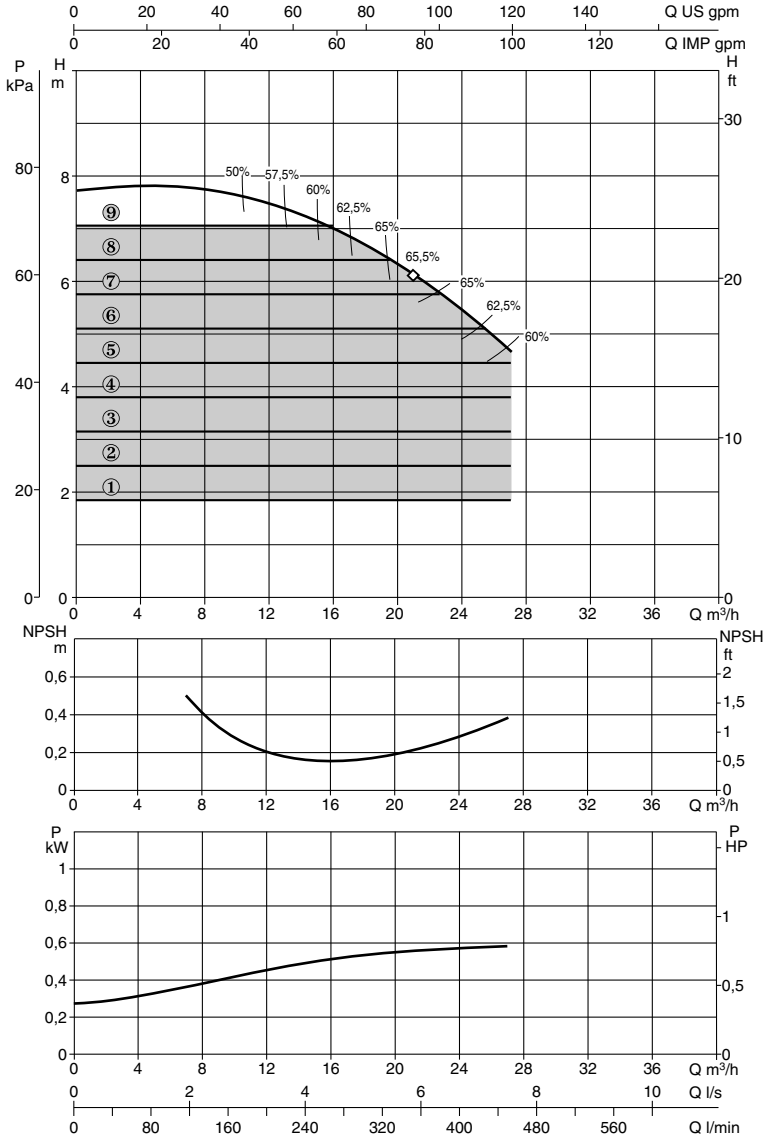
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 40-160/153 ≅ 1450 1/min





Motor construction type: B5



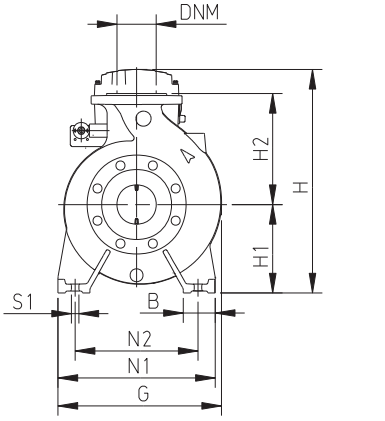
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 40-160/153/ 0.55/4	65	40	80	50	-	232	235	112	140	310	201	100	70	210	160	M12	-	-	100	28	620	370	480	0,11	50,6

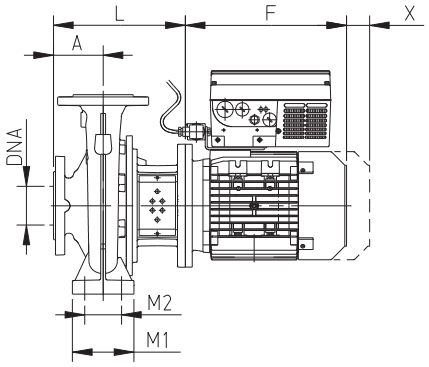
MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-GE 40-160/153/ 0.55/4	MEC 80	1x208/240 V	0.55	0.75	2.9-1.7	H (m)	7.6	7.7	7.6	6.7	5.5	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

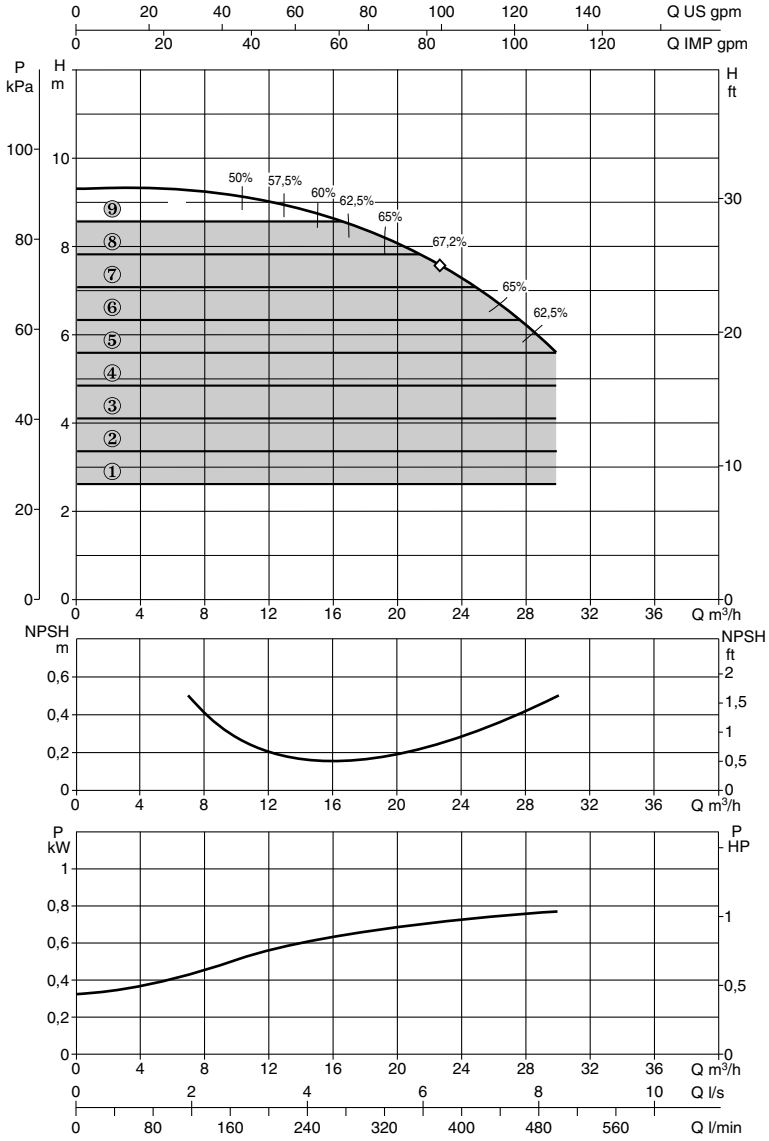
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 40-160/166 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 40-160/166/ 0.75/4	65	40	80	50	-	232	253	132	160	330	226	100	70	240	190	M12	-	-	100	28	620	370	480	0,11	52,6

MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-GE 40-160/166/ 0.75/4	MEC 80	1x208/240 V	0.75	1	3.8-2.2	H (m)	9.2	9.2	9	8.4	7.4	5.7	–

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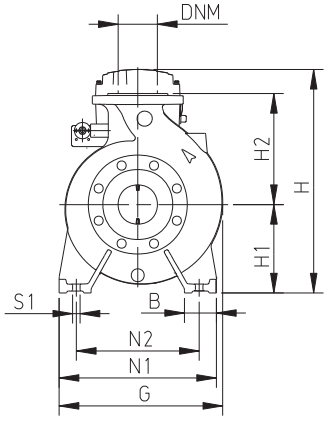
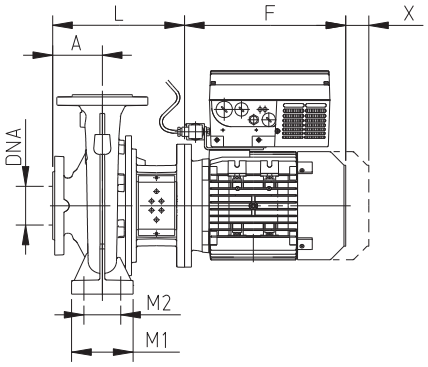
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

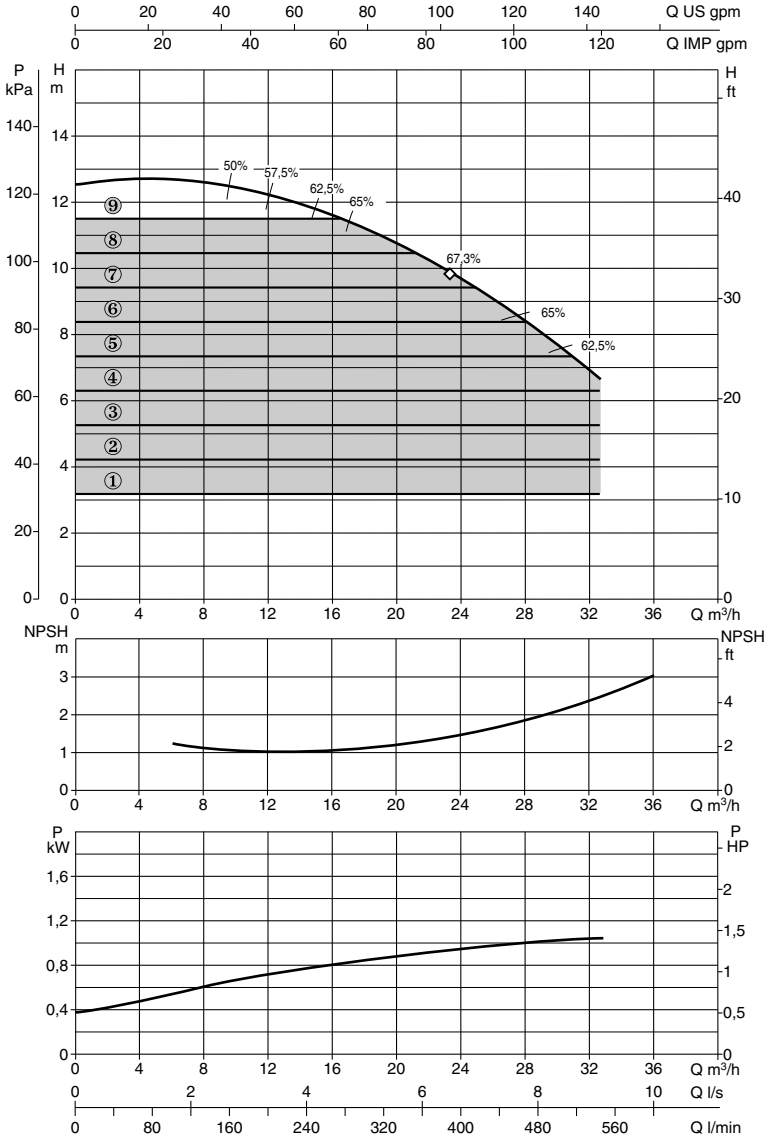
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 40-200/200 ≅ 1450 1/min





Motor construction type: B5



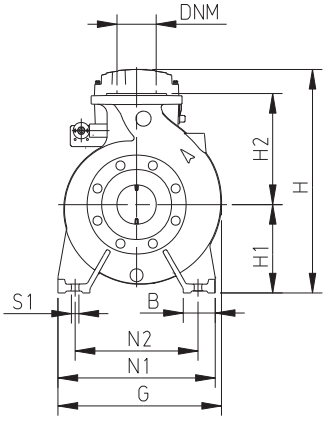
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 40-200/200/1,1 /4	65	40	100	50	-	267	296	160	180	422	246	100	70	265	212	M12	-	-	100	28	620	370	480	0,11	59,3

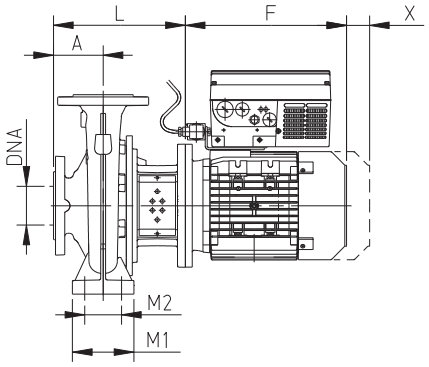
MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-GE 40-200/200/1,1 /4	MEC 90 S	3x380/480 V	1.1	1.5	4.7-2.7	H (m)	12.6	12.6	12.3	11.2	9.7	7.7	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

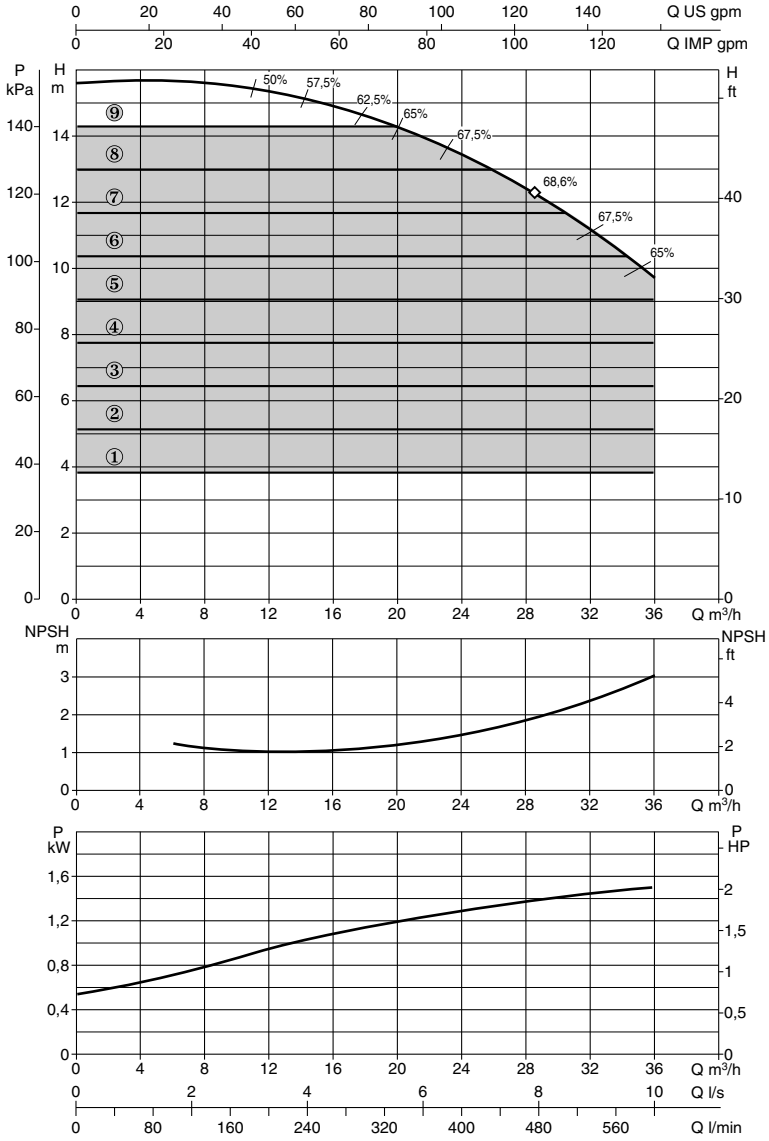
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 40-200/219 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 40-200/219/1,5/4	65	40	100	50	-	267	296	160	180	422	246	100	70	265	212	M12	-	-	100	28	620	370	480	0,11	62,0

MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-GE 40-200/219/1,5/4	MEC 90 L	3x380/480 V	1.5	2	6.2-3.6	H (m)	15.6	15.6	15.3	14.7	13.4	11.8	9.8

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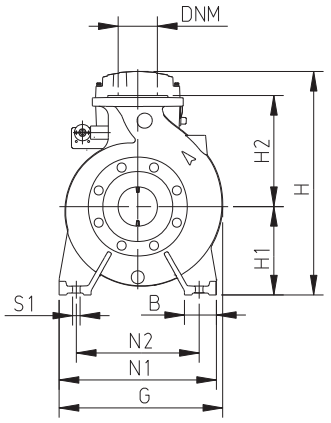
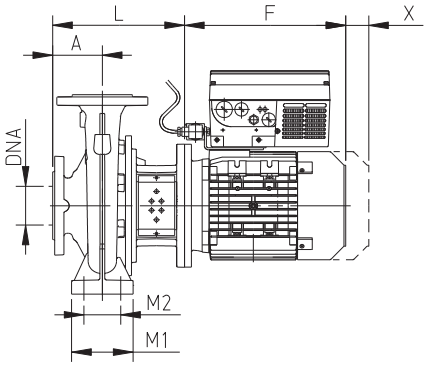
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

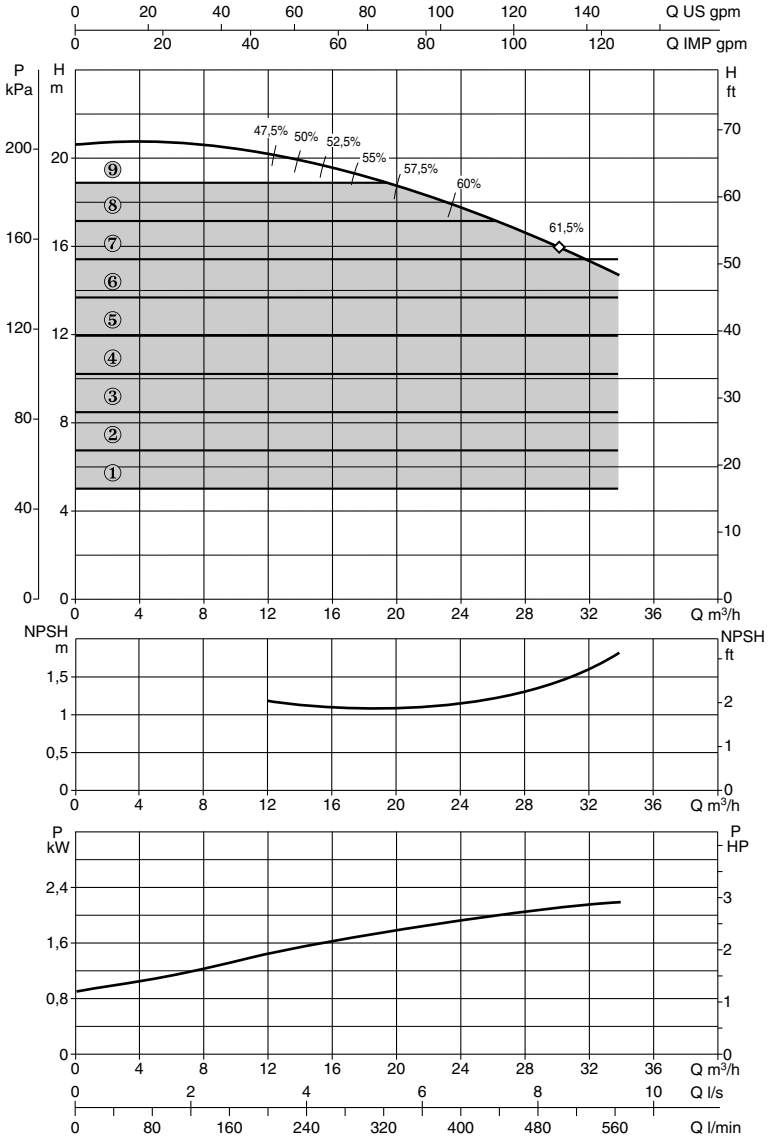
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 40-250/245 ≅ 1450 1/min





Motor construction type: B5



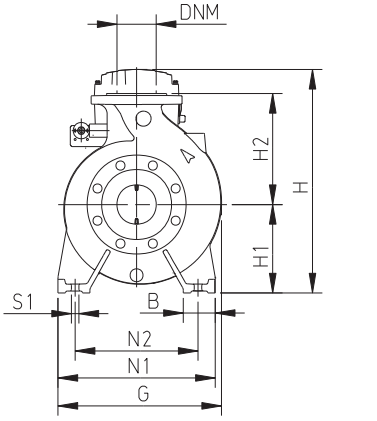
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 40-250/245/2,2/4	65	40	100	65	-	305	336	180	225	452	274	125	95	320	250	M12	-	-	100	28	670	420	540	0,152	84,3

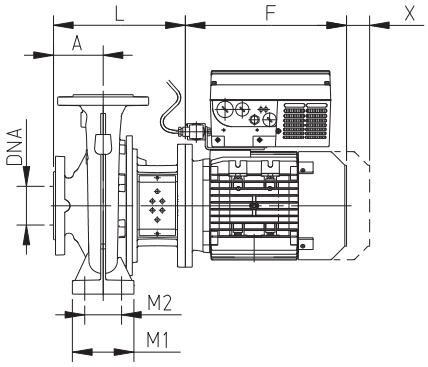
MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-GE 40-250/245/2,2/4	MEC 100	3x380/480 V	2.2	3	9.3-5.4	H (m)	20.6	20.5	20.1	19.2	17.8	16	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

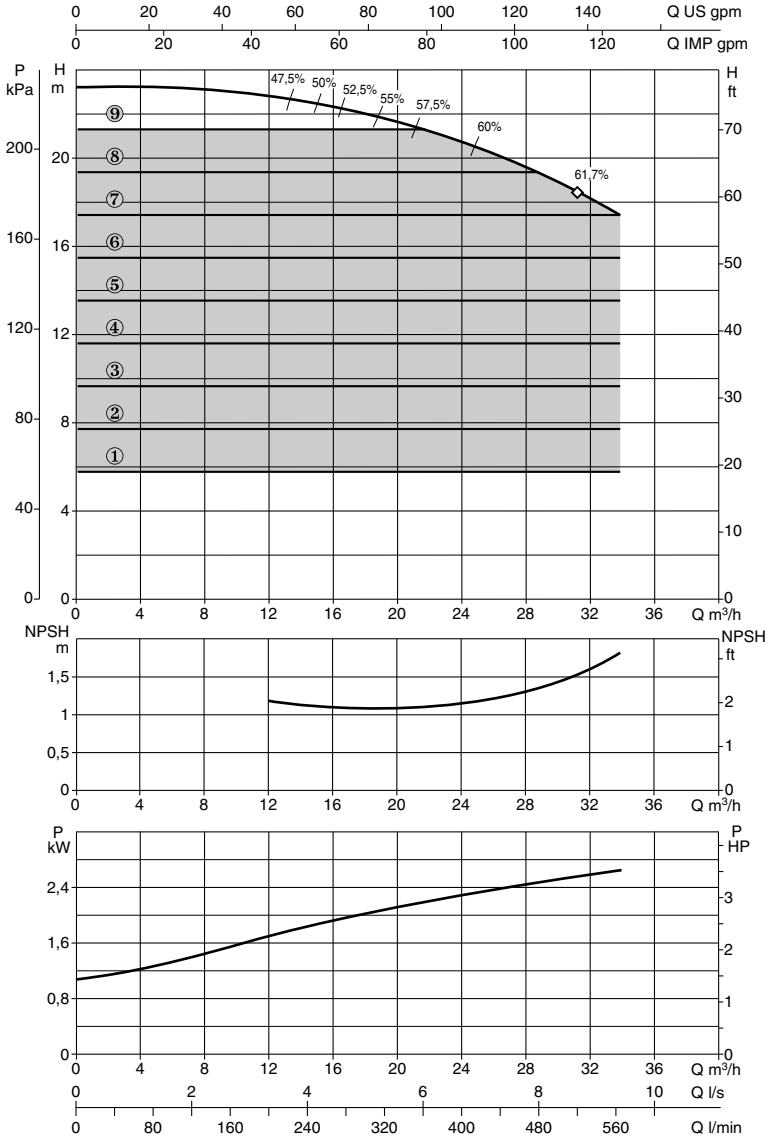
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 40-250/260 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 40-250/260/3 /4	65	40	100	65	-	305	336	180	225	452	274	125	95	320	250	M12	-	-	100	28	670	420	540	0,152	80,6

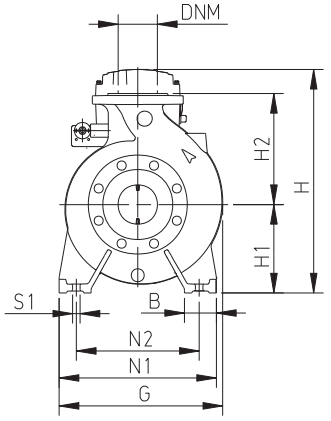
MODEL	ELECTRICAL DATA					HYDRAULIC DATA							
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36
						l/min	0	100	200	300	400	500	600
NKM-GE 40-250/260/3 /4	MEC 100	3x380/480 V	3	4	6.8	H (m)	23.3	23.1	22.8	22.2	20.8	19	–

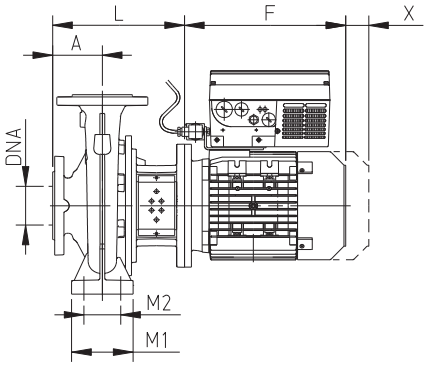
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

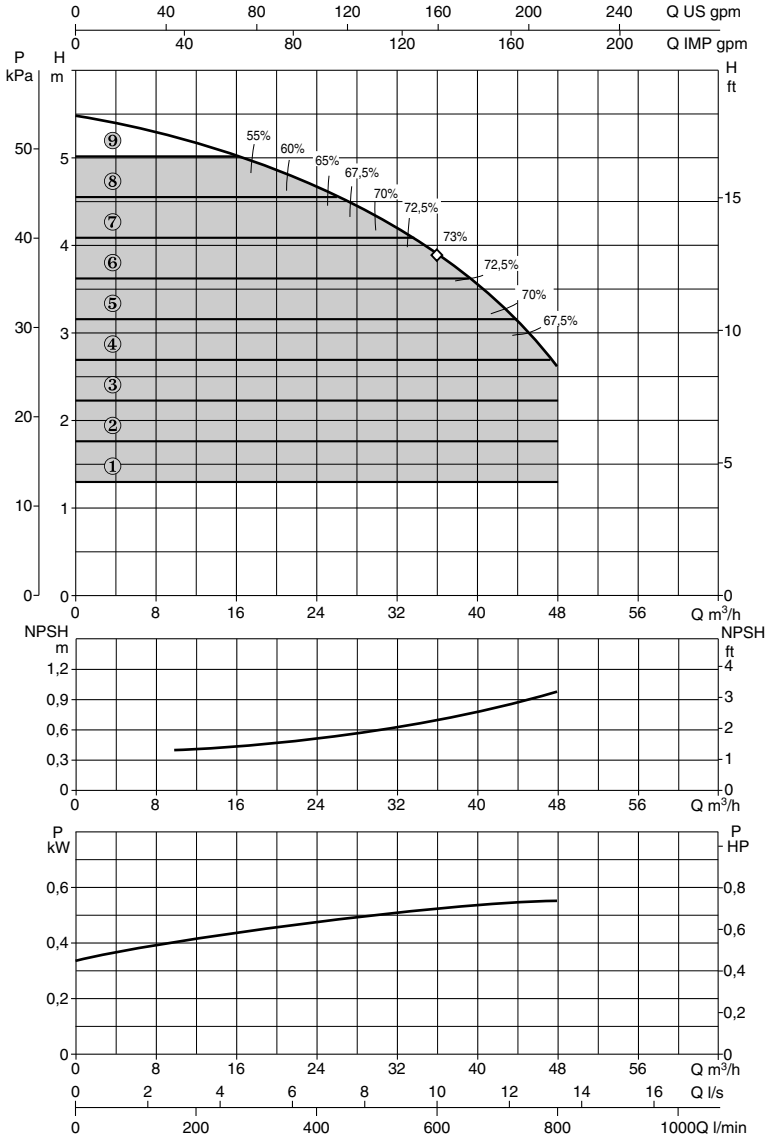
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 50-125/130 ≅ 1450 1/min





Motor construction type: B5



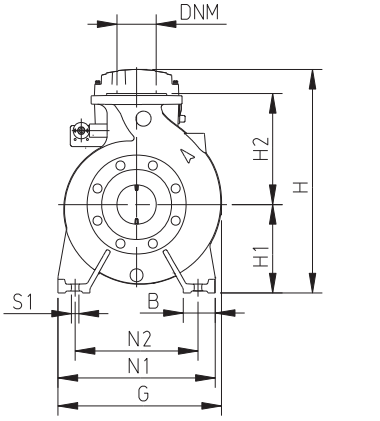
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 50-125/130/ 0.55/4	65	50	100	50	-	215	250	132	160	330	246	100	70	240	160	M12	-	-	100	28	620	370	480	0,11	44,6

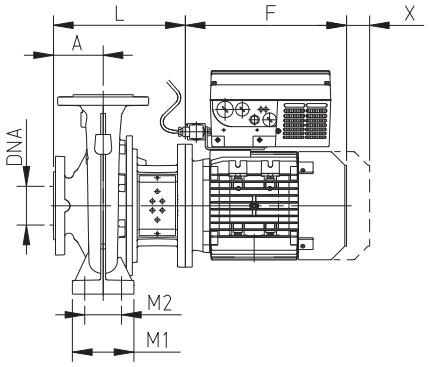
MODEL	ELECTRICAL DATA					HYDRAULIC DATA								
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	18	24	30	36	42	48
						l/min	0	200	300	400	500	600	700	800
NKM-GE 50-125/130/ 0.55/4	MEC 80	1x208/240 V	0.55	0.75	2.9-1.7	H (m)	5.5	5.2	5	4.7	4.3	3.9	3.3	2.6

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

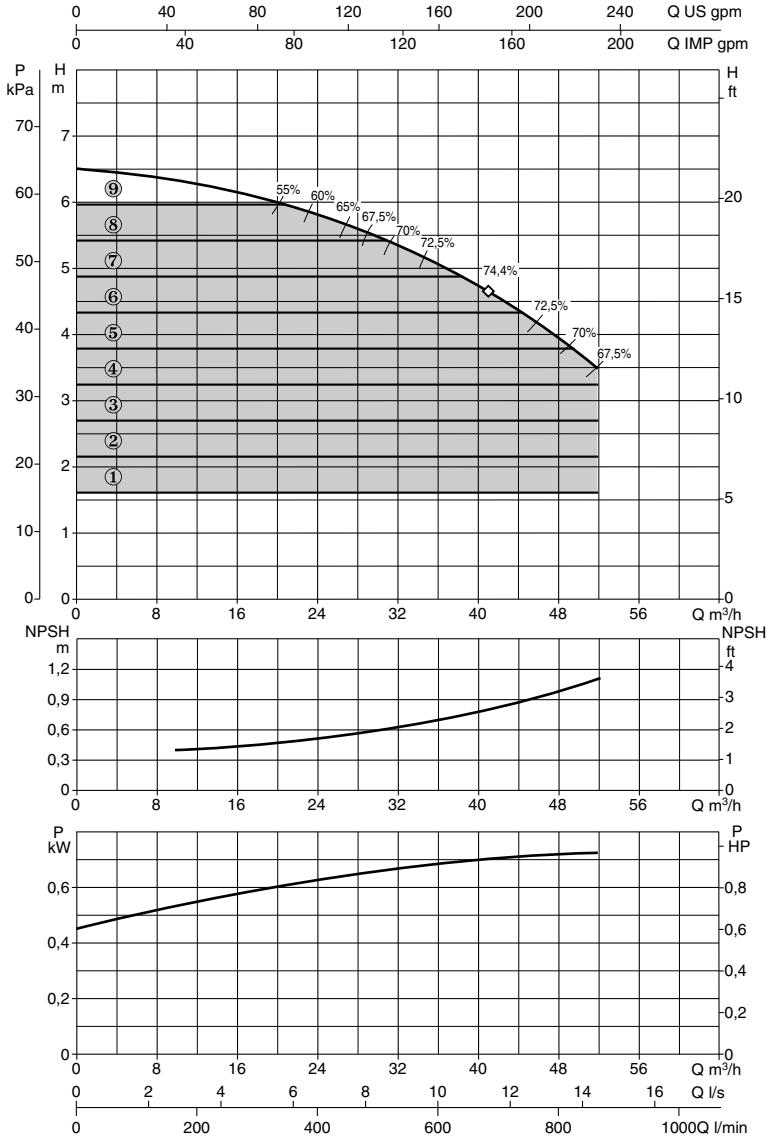
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 50-125/141 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 50-125/141/0.75/4	65	50	100	50	-	232	250	132	160	330	246	100	70	240	160	M12	-	-	100	28	620	370	480	0,11	46,2

MODEL	ELECTRICAL DATA					HYDRAULIC DATA								
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	18	24	30	36	42	48
						l/min	0	200	300	400	500	600	700	800
NKM-GE 50-125/141/0.75/4	MEC 80	1x208/240 V	0.75	1	3.8-2.2	H (m)	6.5	6.3	6.1	5.8	5.5	5	4.5	3.9

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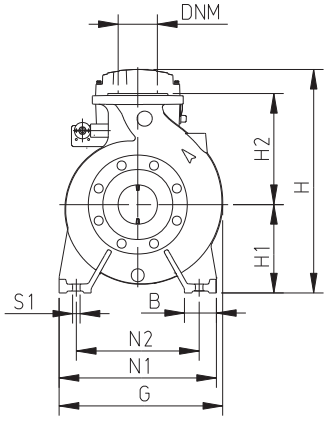
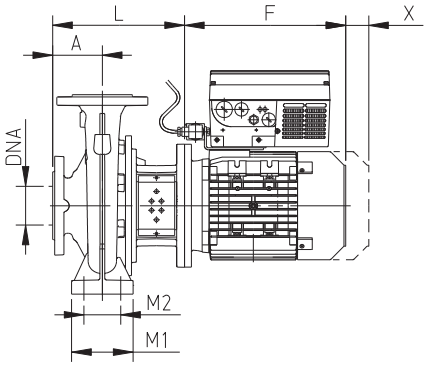
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

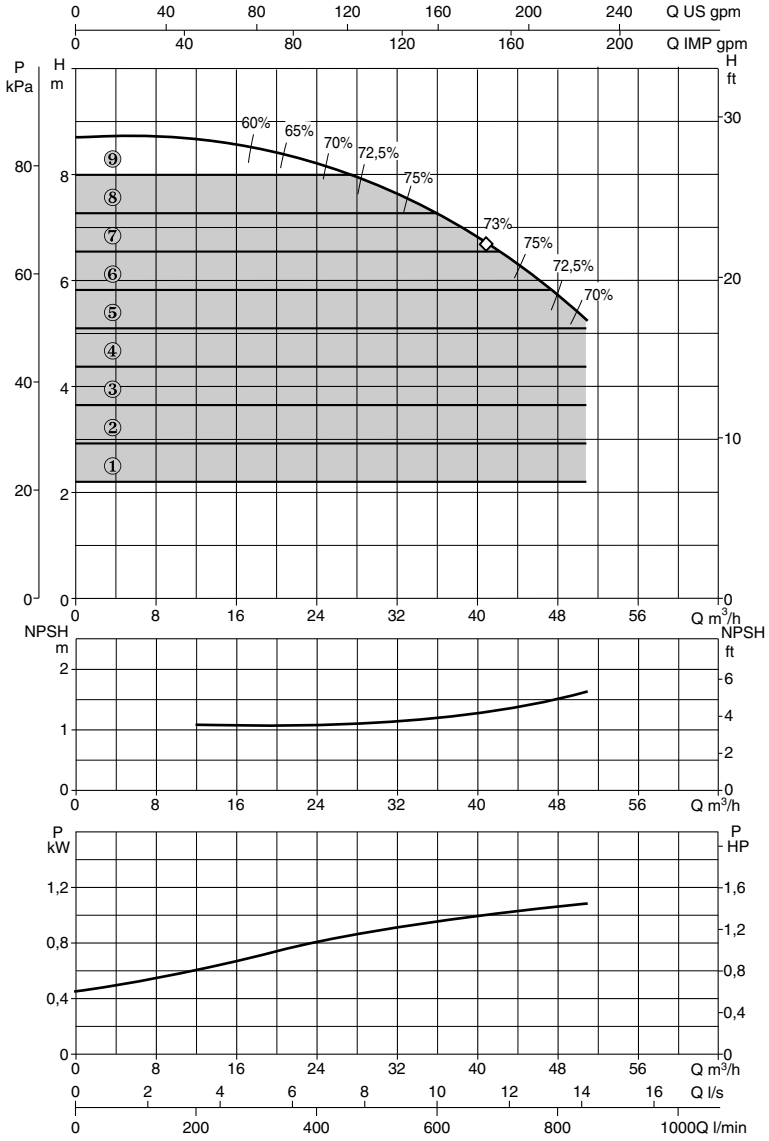
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 50-160/161 ≅ 1450 1/min





Motor construction type: B5



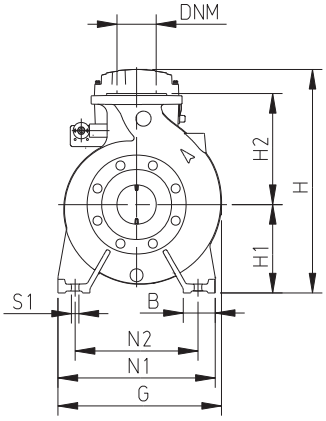
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 50-160/161/1.1 /4	65	50	100	50	-	267	282	160	180	422	274	100	70	265	212	M12	-	-	100	28	620	370	480	0,11	58,6

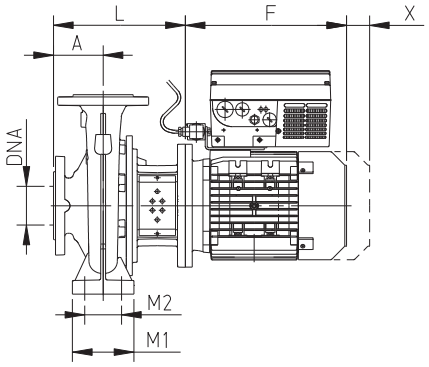
MODEL	ELECTRICAL DATA					HYDRAULIC DATA								
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	18	24	30	36	42	48
						l/min	0	200	300	400	500	600	700	800
NKM-GE 50-160/161/1.1 /4	MEC 90 S	3x380/480 V	1.1	1.5	4.7-2.7	H (m)	8.7	8.7	8.5	8.2	7.8	7.3	6.7	5.7

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

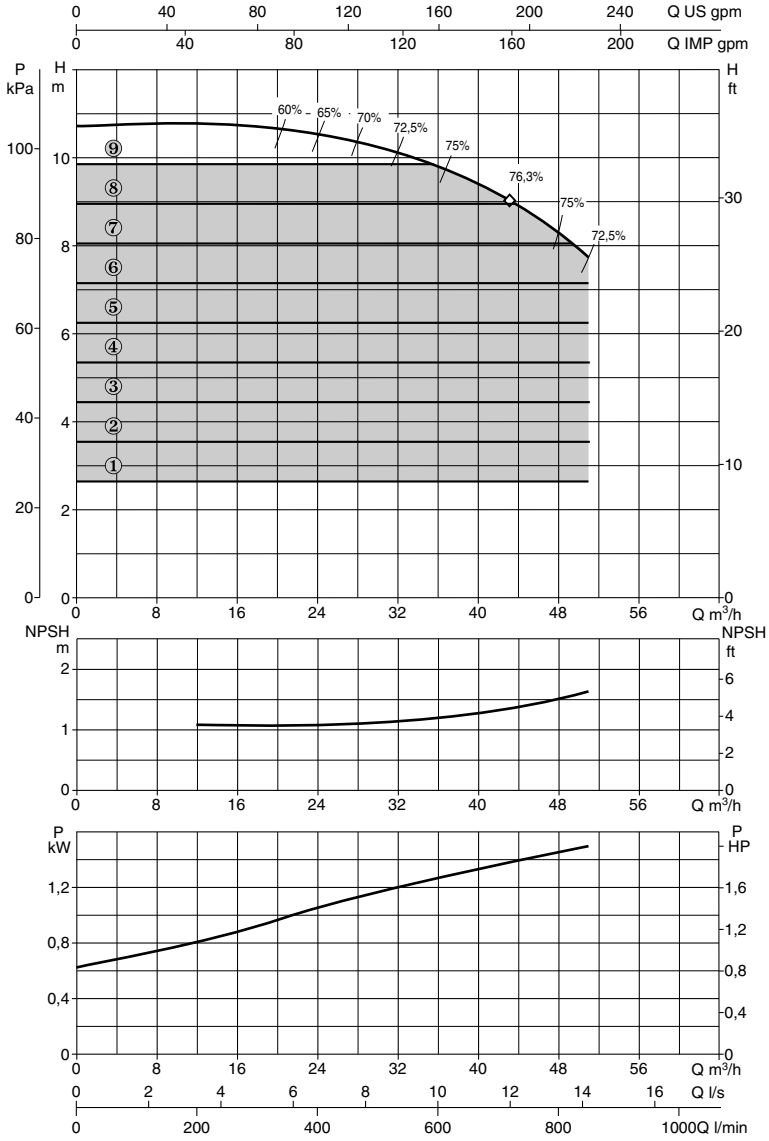
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 50-160/177 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 50-160/177/1,5/4	65	50	100	50	-	267	282	160	180	422	274	100	70	265	212	M12	-	-	100	28	620	370	480	0,11	55,3

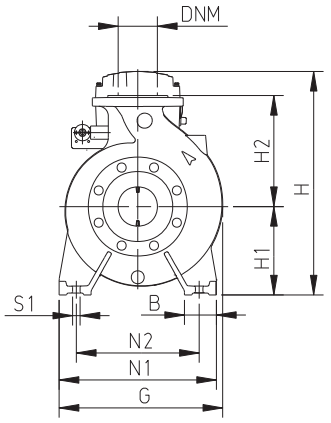
MODEL	ELECTRICAL DATA					HYDRAULIC DATA								
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	18	24	30	36	42	48
						l/min	0	200	300	400	500	600	700	800
NKM-GE 50-160/177/1,5/4	MEC 90 L	3x380/480 V	1.5	2	6.2-3.6	H (m)	10.8	10.8	10.7	10.5	10.2	9.8	9.2	8.3

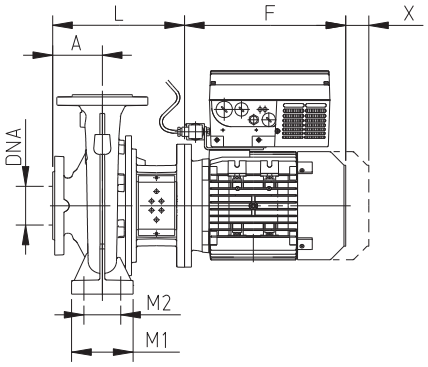
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

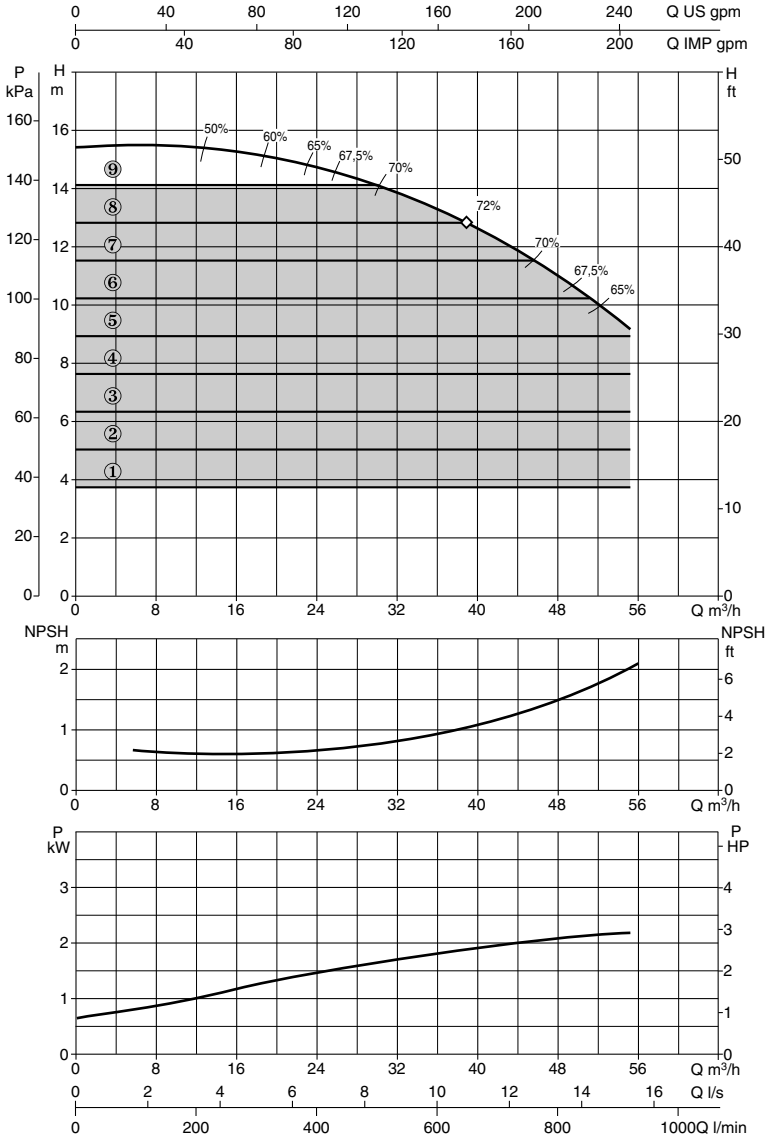
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 50-200/210 ≅ 1450 1/min





Motor construction type: B5



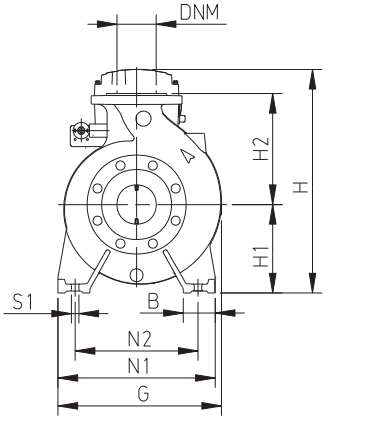
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 50-200/210/2,2/4	65	50	100	50	-	305	302	160	200	432	274	100	70	265	212	M12	-	-	100	28	670	420	540	0,152	80,3

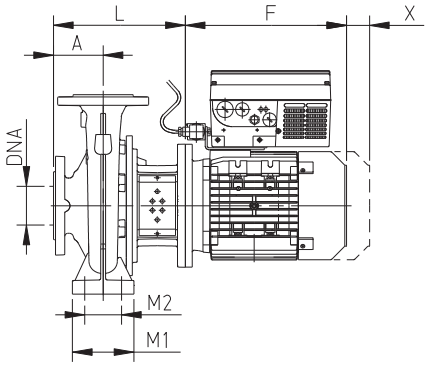
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	18	24	30	36	42	48	54
						l/min	0	200	300	400	500	600	700	800	900
NKM-GE 50-200/210/2,2/4	MEC 100	3x380/480 V	2.2	3	9.3-5.4	H (m)	15.3	15.3	15.2	14.8	14	13.3	12.1	10.8	9.4

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

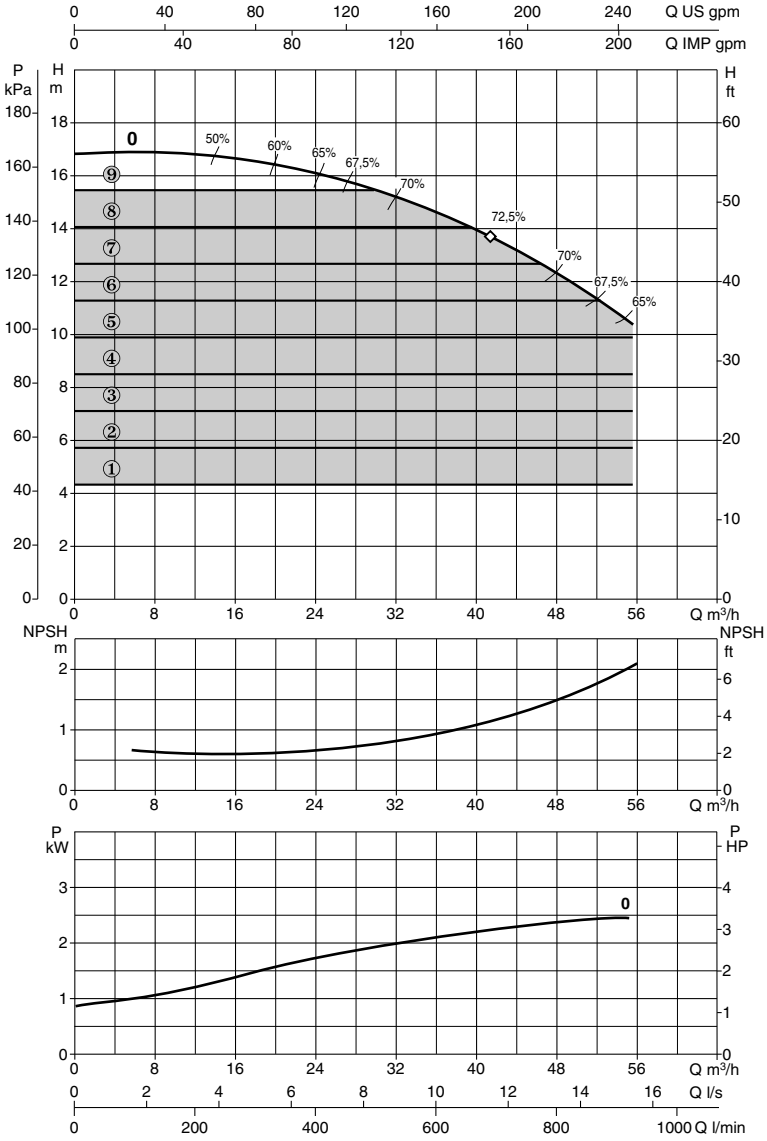
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 50-200/219 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 50-200/219/3 /4	65	50	100	50	-	305	302	160	200	432	274	100	70	265	212	M12	-	-	100	28	670	420	540	0,152	73,1

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	18	24	30	36	42	48	54
						l/min	0	200	300	400	500	600	700	800	900
NKM-GE 50-200/219/3 /4	MEC 100	3x380/480 V	3	4	6.8	H (m)	16.8	16.8	16.5	16.1	15.5	14.6	13.6	12.4	10.9

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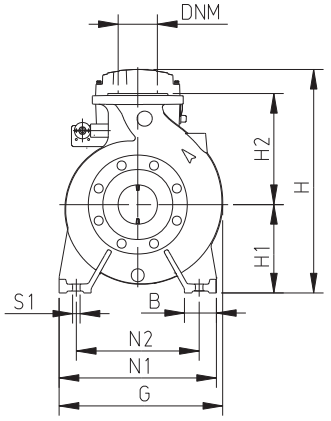
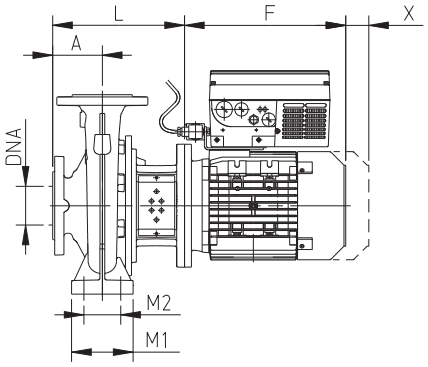
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

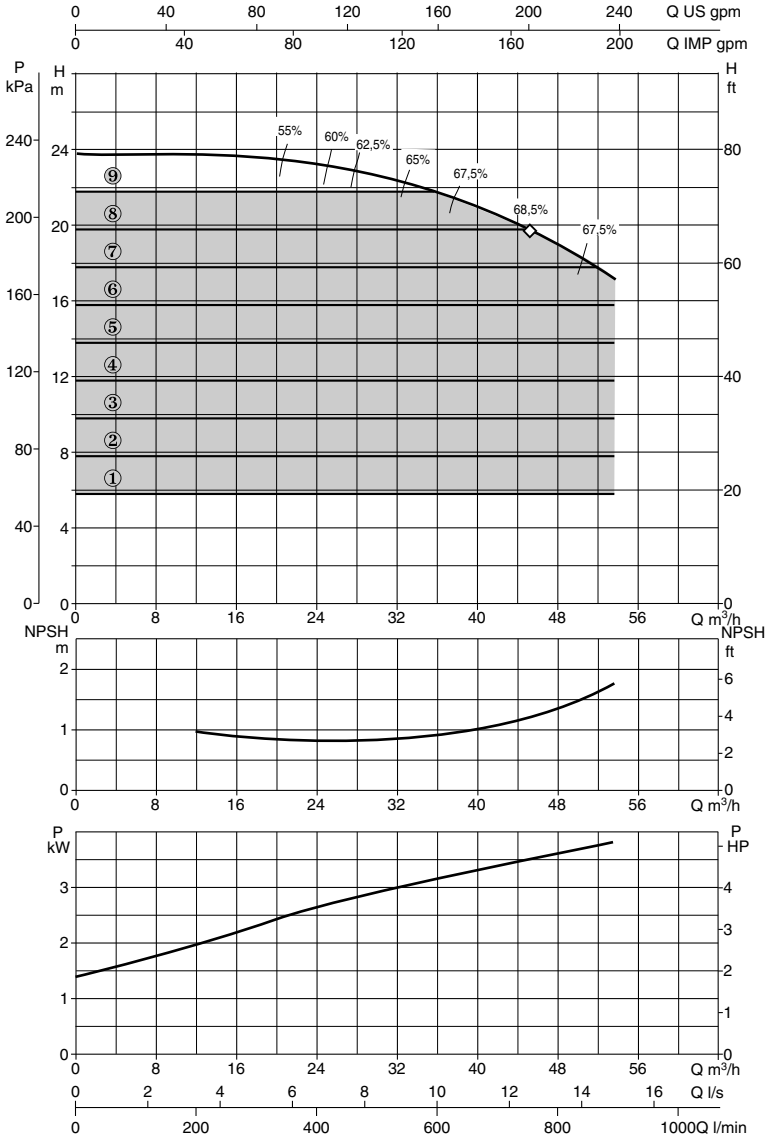
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 50-250/263 ≅ 1450 1/min





Motor construction type: B5



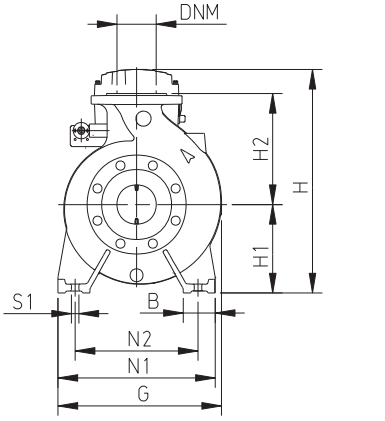
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 50-250/263/ 4 /4	65	50	100	65	-	328	343	180	225	464	274	125	95	320	250	M12	-	-	100	28	670	420	540	0,152	96,3

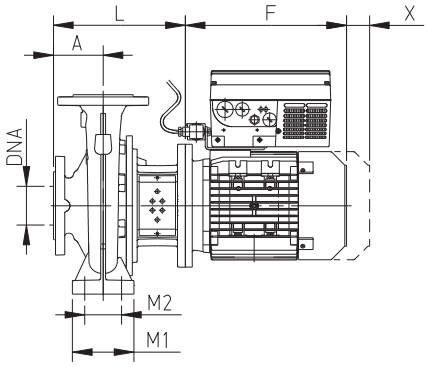
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	12	18	24	30	36	42	48	54
						l/min	0	200	300	400	500	600	700	800	900
NKM-GE 50-250/263/ 4 /4	MEC 112	3x380/480 V	4	5.5	8.5	H (m)	23.8	24	23.8	23.4	22.7	21.6	20.4	19	17.1

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

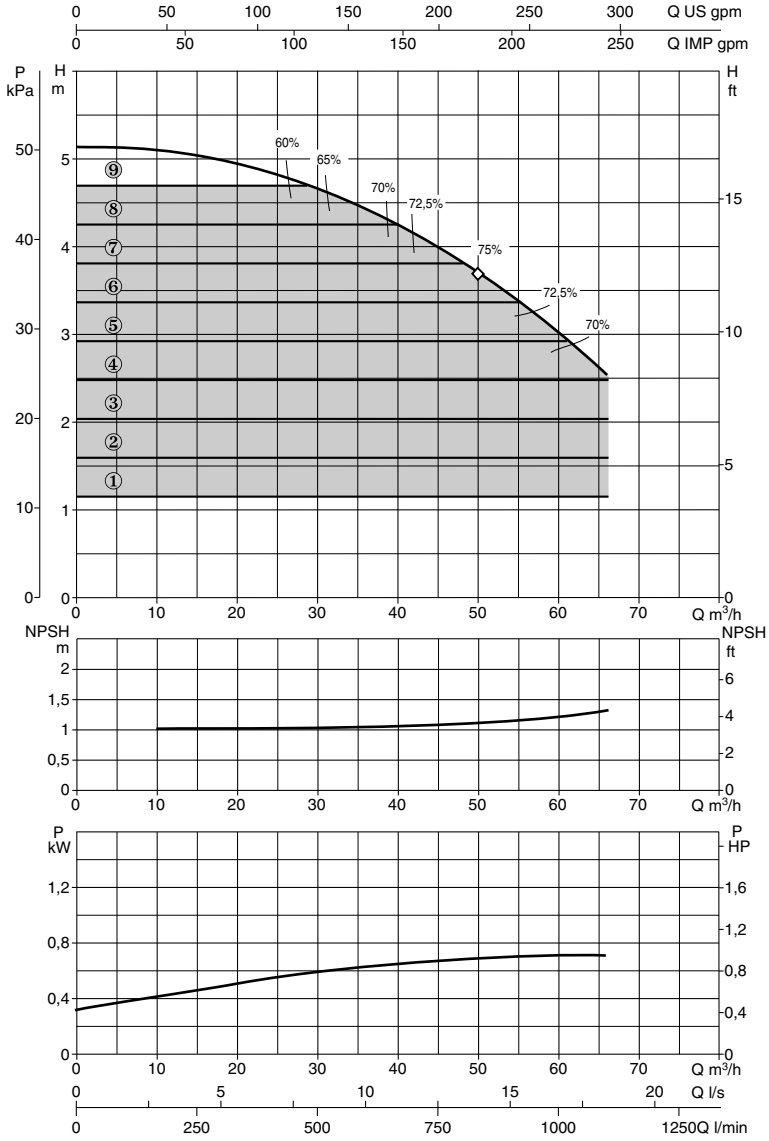
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 65-125/130 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 65-125/130/ 0.75/4	80	65	100	65	-	232	286	160	180	358	246	125	95	280	212	M12	-	-	100	28	620	370	480	0,11	59,6

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	18	30	36	42	54	60	66	78
						l/min	0	300	500	600	700	900	1000	1100	1300
NKM-GE 65-125/130/ 0.75/4	MEC 80	1x208/240 V	0.75	1	3.8-2.2	H (m)	5.1	4.8	4.7	4.4	4.2	3.4	3	2.5	–

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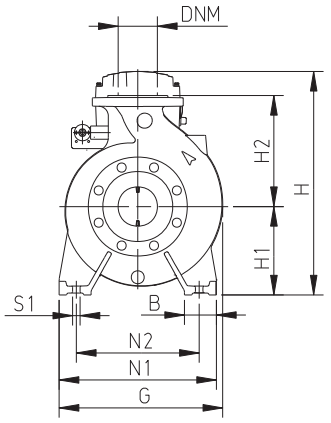
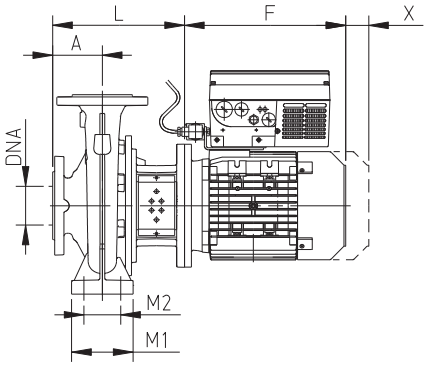
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

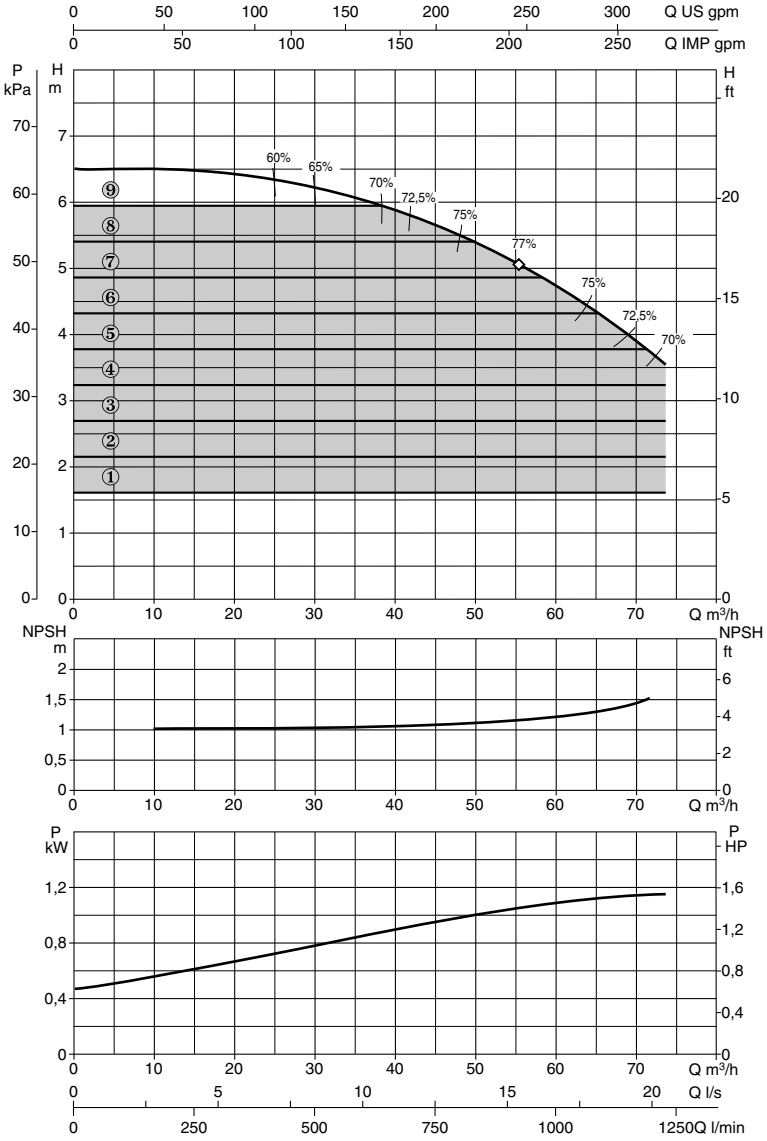
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 65-125/144 ≅ 1450 1/min





Motor construction type: B5



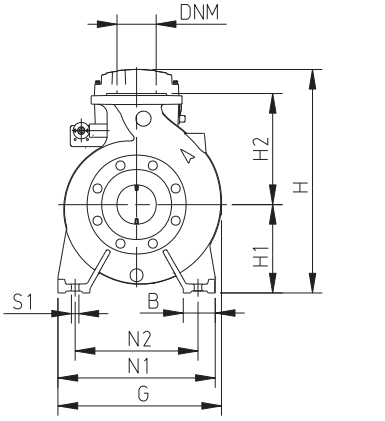
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 65-125/144/1.1/4	80	65	100	65	-	267	286	160	180	422	246	125	95	280	212	M12	-	-	100	28	620	370	480	0,11	69,3

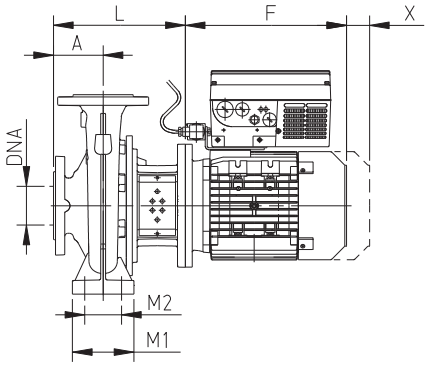
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	18	30	36	42	54	60	66	78
						l/min	0	300	500	600	700	900	1000	1100	1300
NKM-GE 65-125/144/1.1/4	MEC 90 S	3x380/480 V	1.1	1.5	4.7-2.7	H (m)	6.5	6.4	6.2	6	5.75	5.1	4.65	4.2	3.75

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

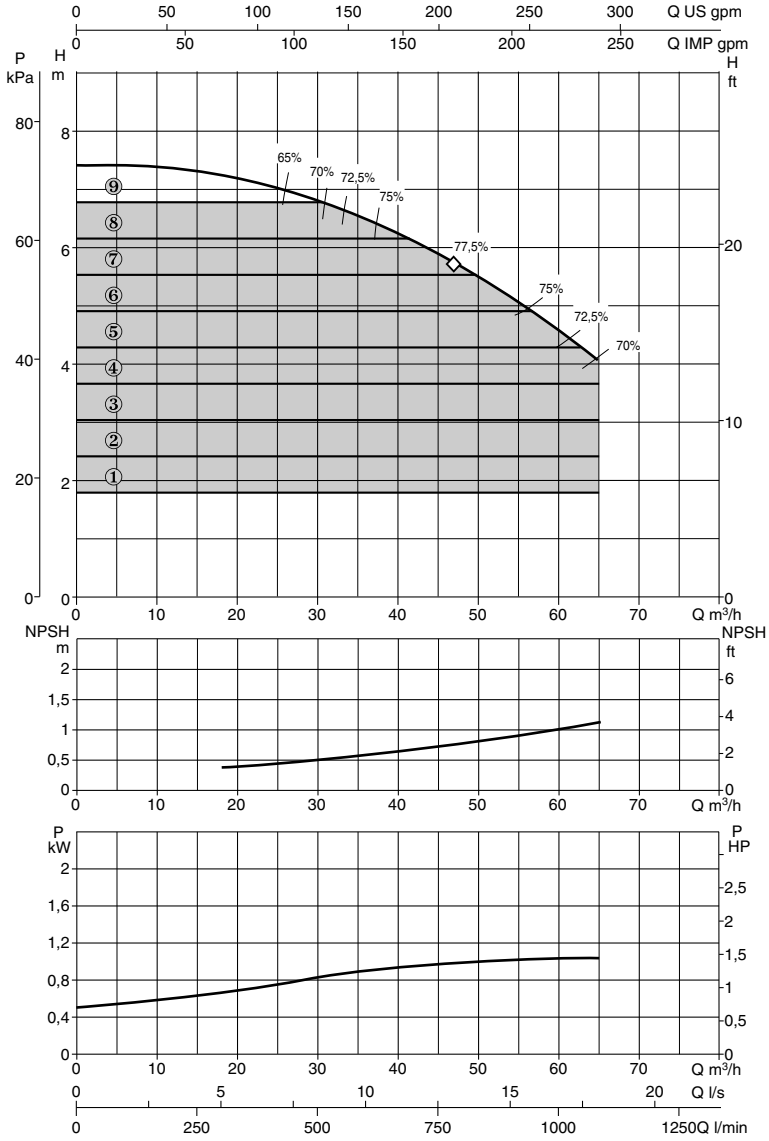
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 65-160/153 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 65-160/153/1,1/4	80	65	100	65	-	267	302	160	200	422	246	125	95	280	212	M12	-	-	100	28	670	420	540	0,15	62,8

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	18	30	36	42	54	60	66	78
						Q l/min	0	300	500	600	700	900	1000	1100	1300
NKM-GE 65-160/153/1,1/4	MEC 90 S	3x380/480 V	1.1	1.5	4.7-2.7	H (m)	7.4	7.3	6.9	6.65	6.25	5.3	4.4	–	–

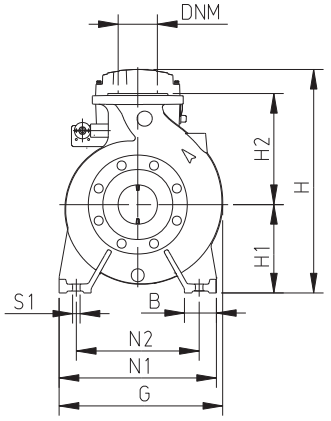
DAB PUMPS reserve the right to make modifications without prior notice

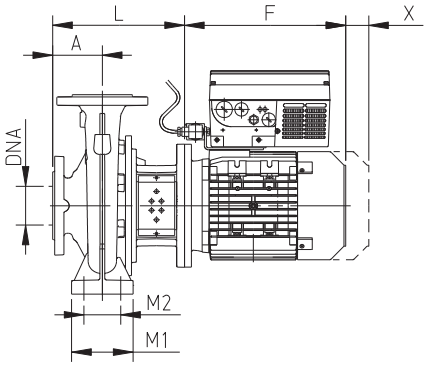
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

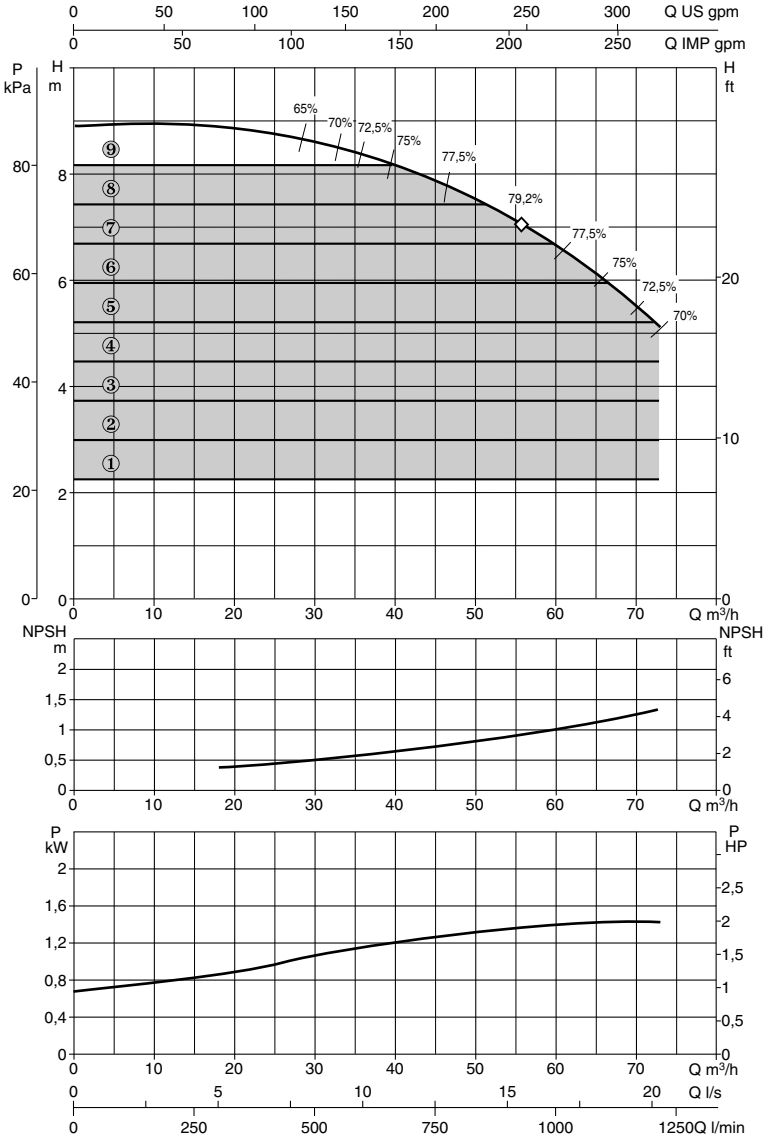
NKM-GE 65-160/165

≅ 1450 1/min





Motor construction type: B5



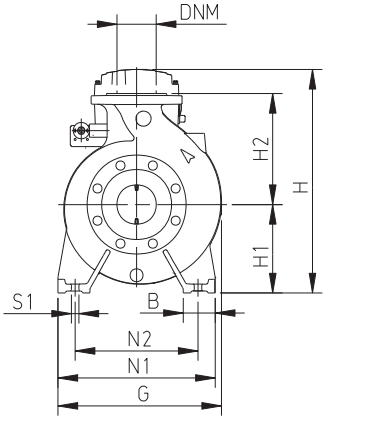
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 65-160/165/1,5 /4	80	65	100	65	-	267	302	160	200	422	246	125	95	280	212	M12	-	-	100	28	670	420	540	0,15	59,3

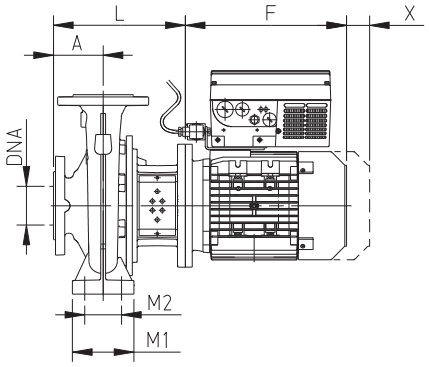
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	18	30	36	42	54	60	66	78
						l/min	0	300	500	600	700	900	1000	1100	1300
NKM-GE 65-160/165/1,5 /4	MEC 90 L	3x380/480 V	1.5	2	6.2-3.6	H (m)	8.9	8.8	8.6	8.3	8	7.15	6.6	6	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

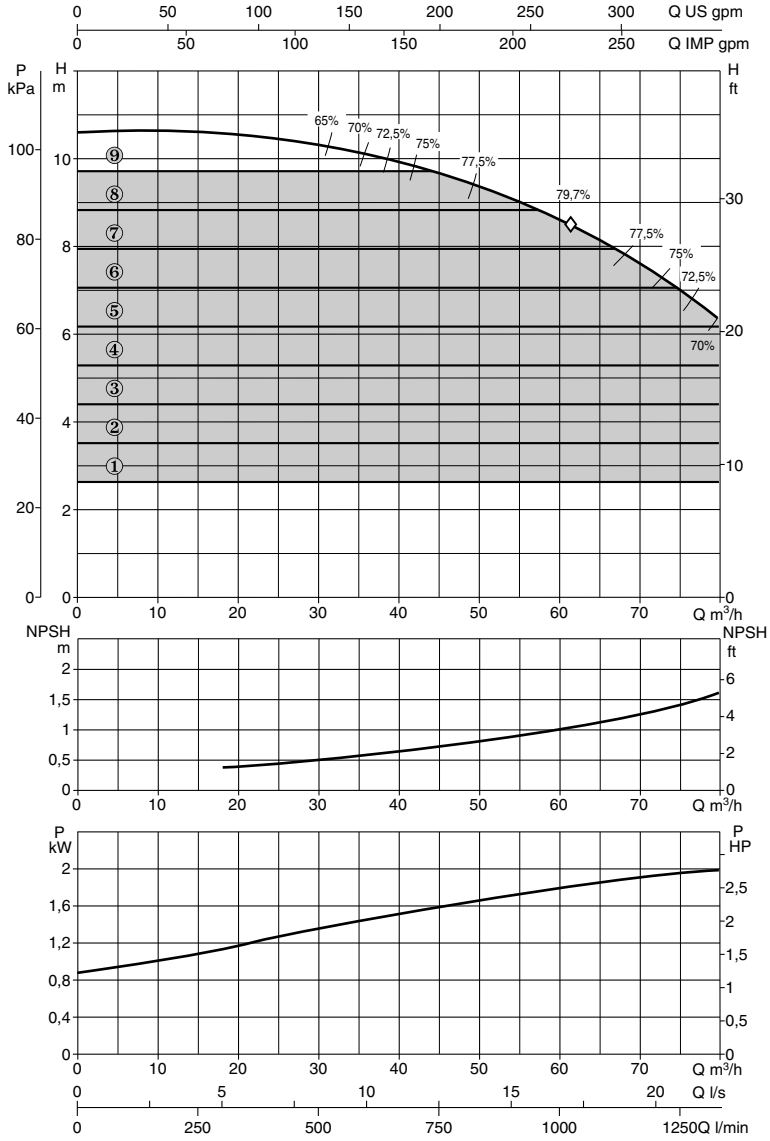
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 65-160/177 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 65-160/177/2,2/4	80	65	100	65	-	305	302	160	200	432	274	125	95	280	212	M12	-	-	100	28	670	420	540	0,15	67,6

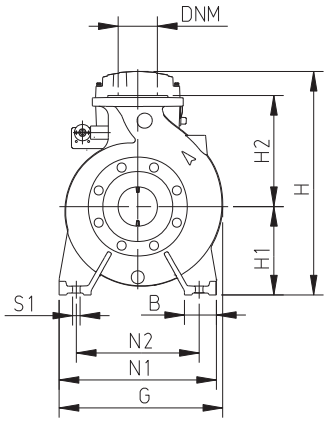
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	18	30	36	42	54	60	66	78
						l/min	0	300	500	600	700	900	1000	1100	1300
NKM-GE 65-160/177/2,2/4	MEC 100	3x380/480 V	2.2	3	9.2-5.3	H (m)	10.5	–	10.3	10.2	9.9	9.2	8.75	8.2	6.6

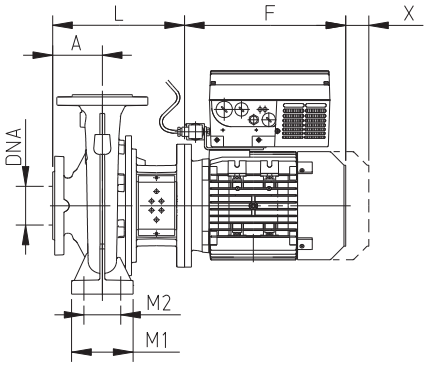
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

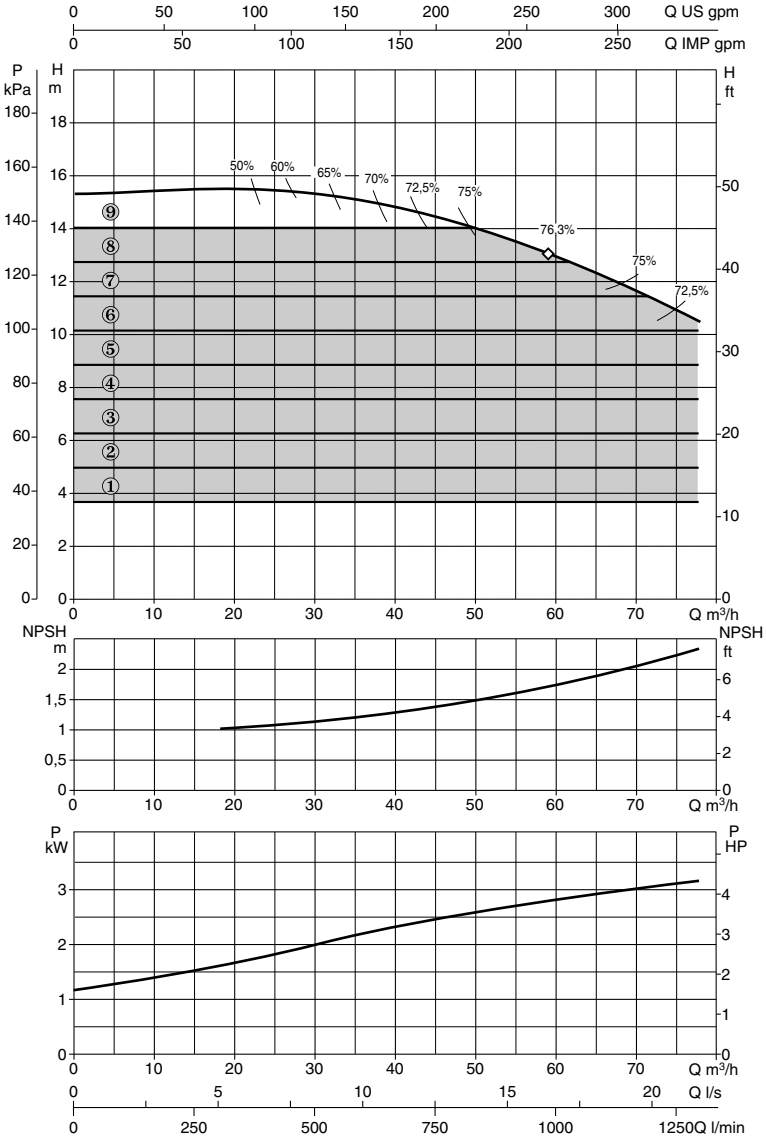
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 65-200/210 ≅ 1450 1/min





Motor construction type: B5



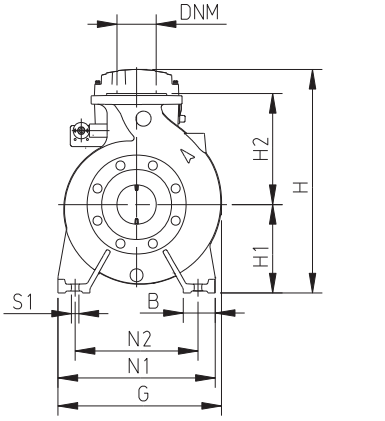
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 65-200/210/3 /4	80	65	100	65	-	305	333	180	225	452	274	125	95	320	250	M12	-	-	100	28	670	420	540	0,15	81,2

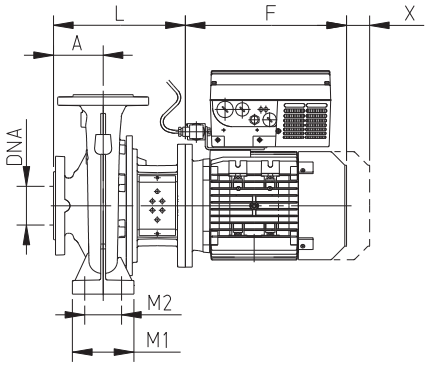
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	24	36	42	54	60	66	72	84
						l/min	0	400	600	700	900	1000	1100	1200	1400
NKM-GE 65-200/210/3 /4	MEC 100	3x380/480 V	3	4	6.8	H (m)	15.3	15.4	15	14.6	13.5	12.9	12.2	11.3	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

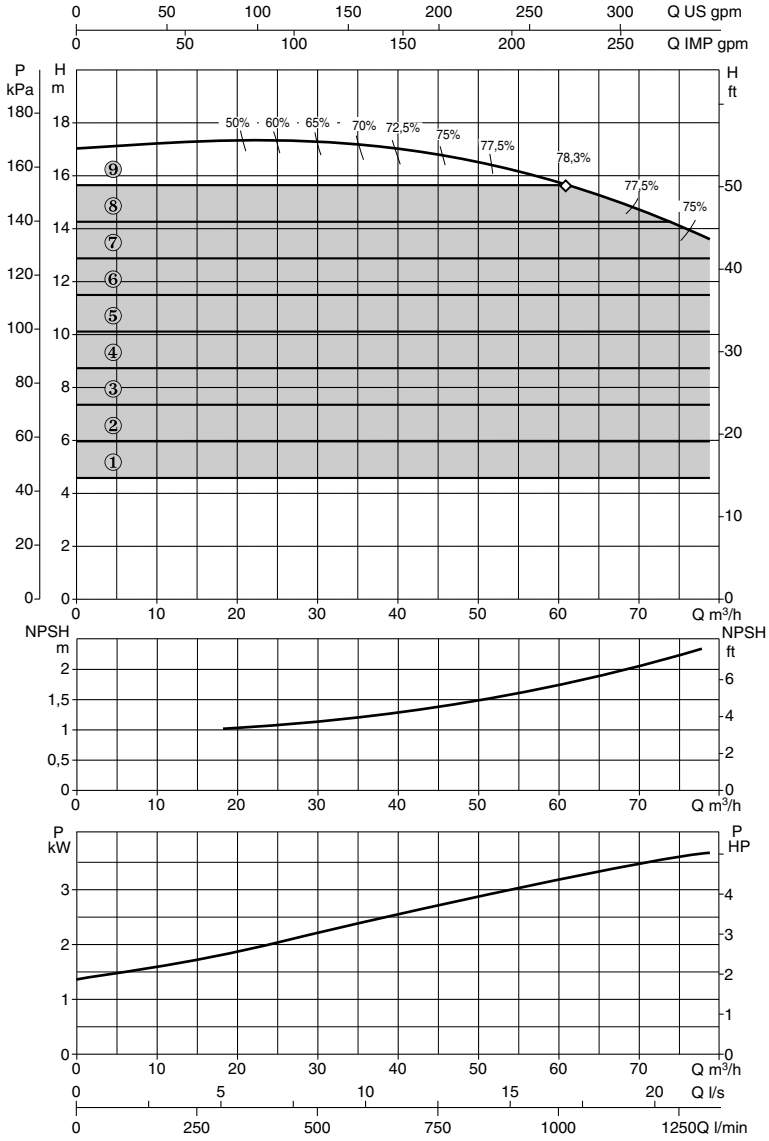
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 65-200/219 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 65-200/219/ 4 /4	80	65	100	65	-	328	333	180	225	464	274	125	95	320	250	M12	-	-	100	28	670	420	540	0,15	86,4

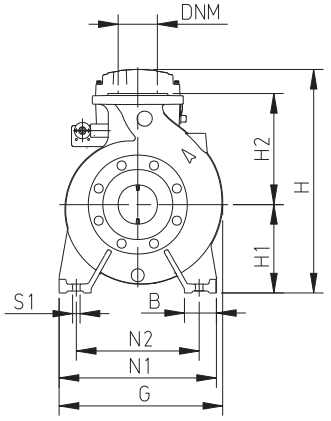
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	24	36	42	54	60	66	72	84
						Q l/min	0	400	600	700	900	1000	1100	1200	1400
NKM-GE 65-200/219/ 4 /4	MEC 112	3x380/480 V	4	5.5	8.5	H (m)	17	17.2	17.1	16.8	16.2	15.7	15.1	14.3	12.6

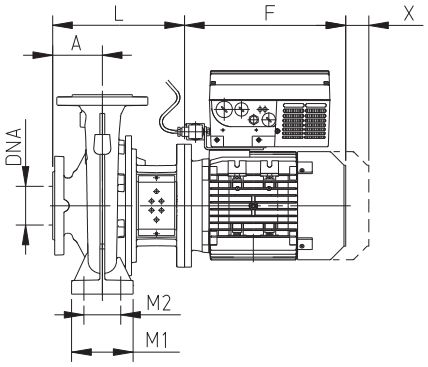
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

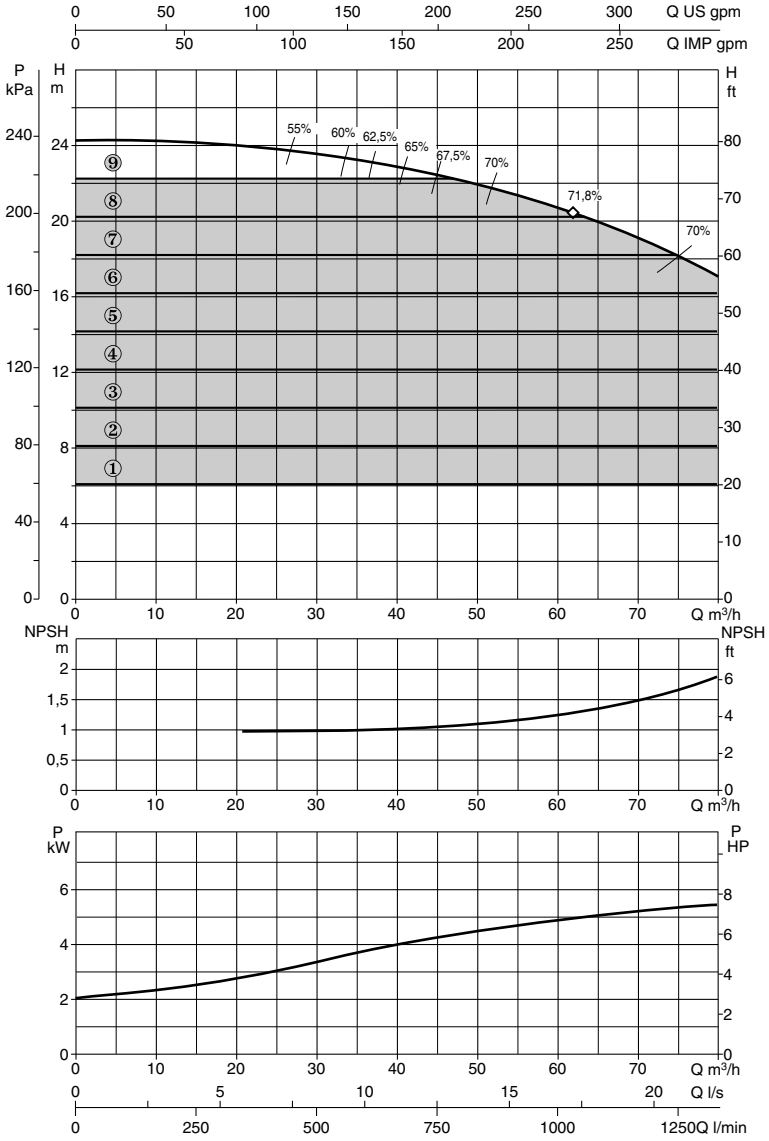
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 65-250/263 ≅ 1450 1/min





Motor construction type: B5



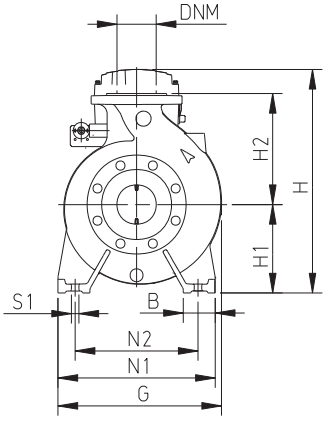
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 65-250/263/5,5/4	80	65	100	80	-	369,5	370	200	250	504	343	160	120	360	280	M16	-	-	140	38	1030	530	640	0,35	152,3

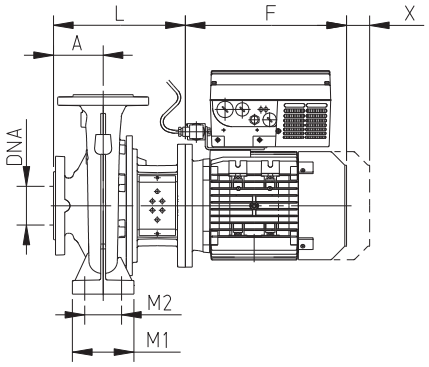
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	24	30	36	42	48	54	66	78
						l/min	0	400	500	600	700	800	900	1100	1300
NKM-GE 65-250/263/5,5/4	MEC 132 S	3x380/480 V	5.5	7.5	11.3	H (m)	24.1	23.8	23.6	23.3	22.8	22.3	21.5	19.7	17.3

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

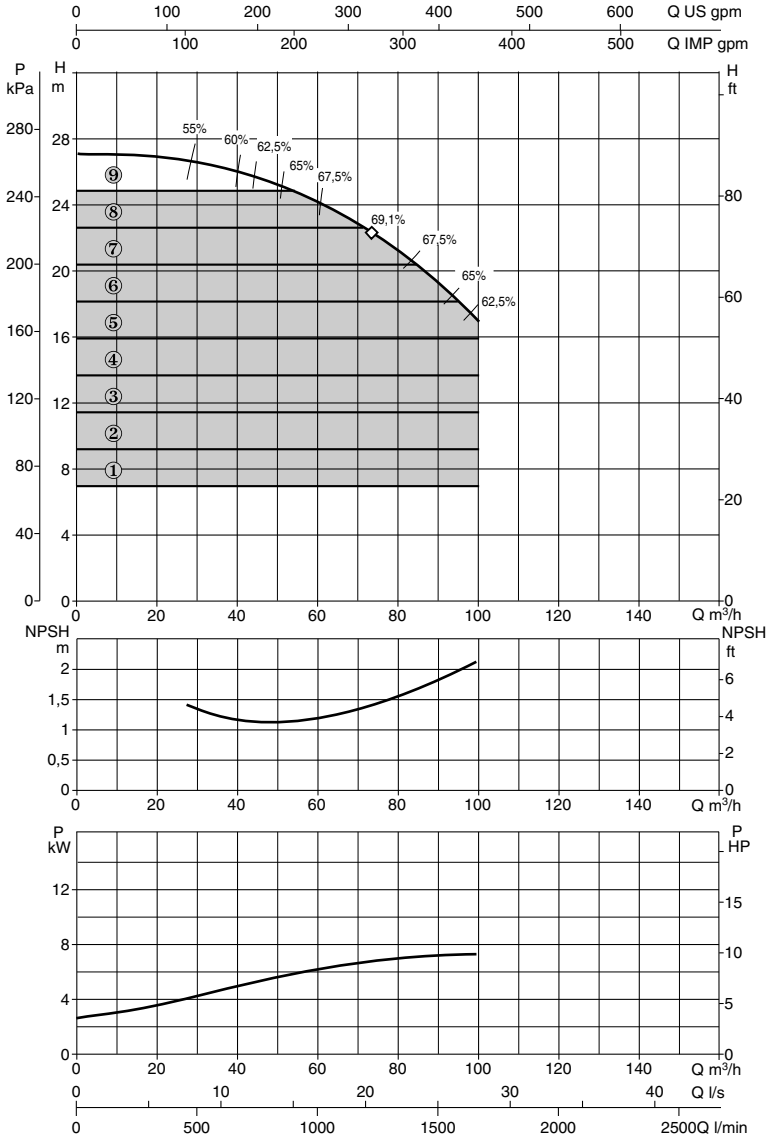
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 65-315/279 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 65-315/279/7,5/4	80	65	125	80	-	407,5	429	225	280	529	368	160	120	400	315	M16	-	-	140	38	1030	530	640	0,35	167,9

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	42	48	54	66	72	84	90	114
						l/min	0	700	800	900	1100	1200	1400	1500	1900
NKM-GE 65-315/279/7,5/4	MEC 132 M	3x380/480 V	7.5	10	14.7	H (m)	27	26	25.5	25	23.6	22.7	20.2	19	–

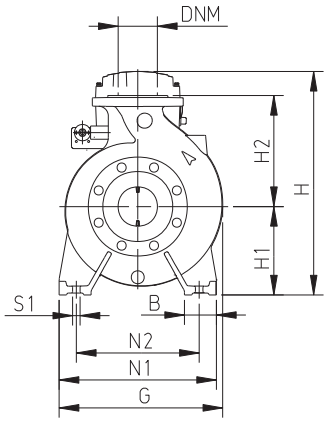
DAB PUMPS reserve the right to make modifications without prior notice

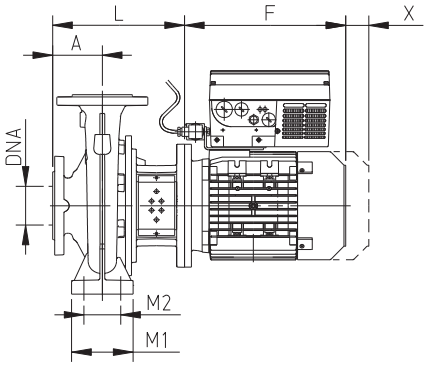
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

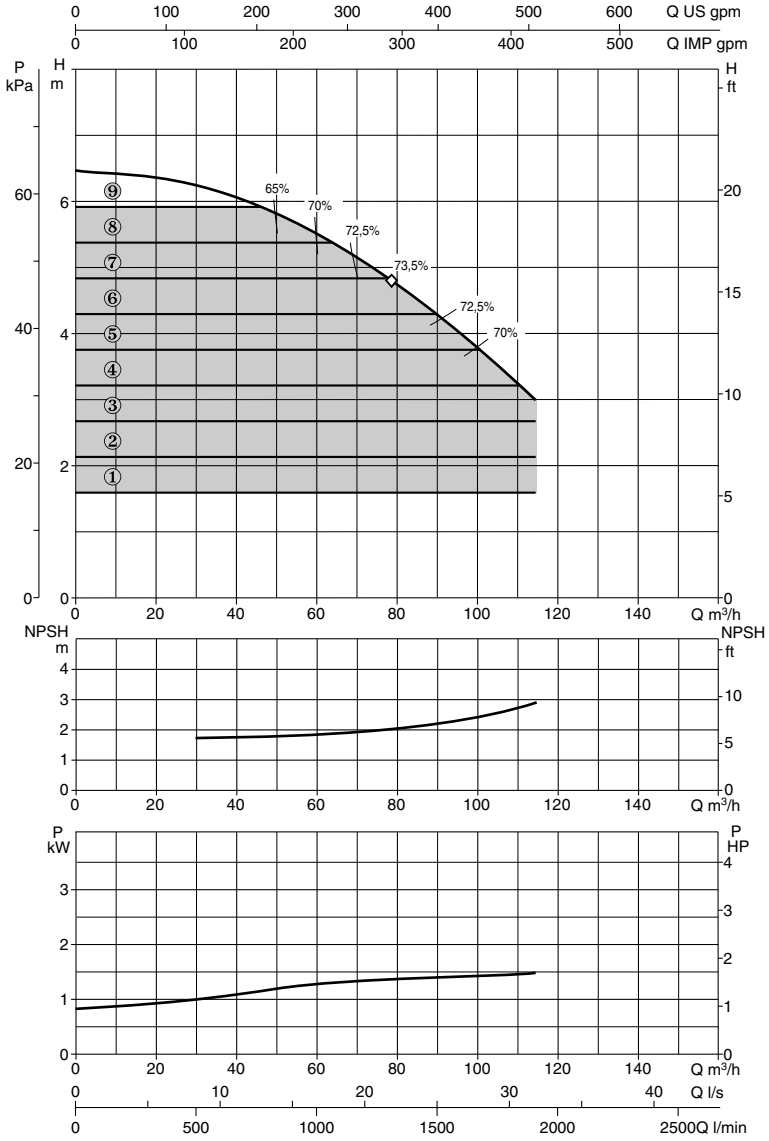
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 80-160/153-136 ≅ 1450 1/min





Motor construction type: B5



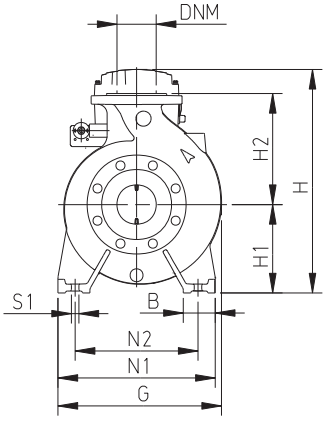
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 80-160/153-136/1.5/4	100	80	125	65	-	267	342	180	225	352	271	125	95	320	250	M12	-	-	100	28	670	420	540	0,15	68,5

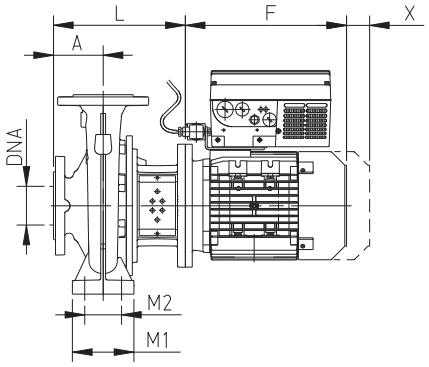
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	30	42	54	66	78	90	114	120
						l/min	0	500	700	900	1100	1300	1500	1900	2000
NKM-GE 80-160/153-136/1.5/4	MEC 90 L	3x380/480 V	1.5	2	6.2-3.6	H (m)	6.5	6.35	6.2	5.75	5.3	4.7	4.25	3	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

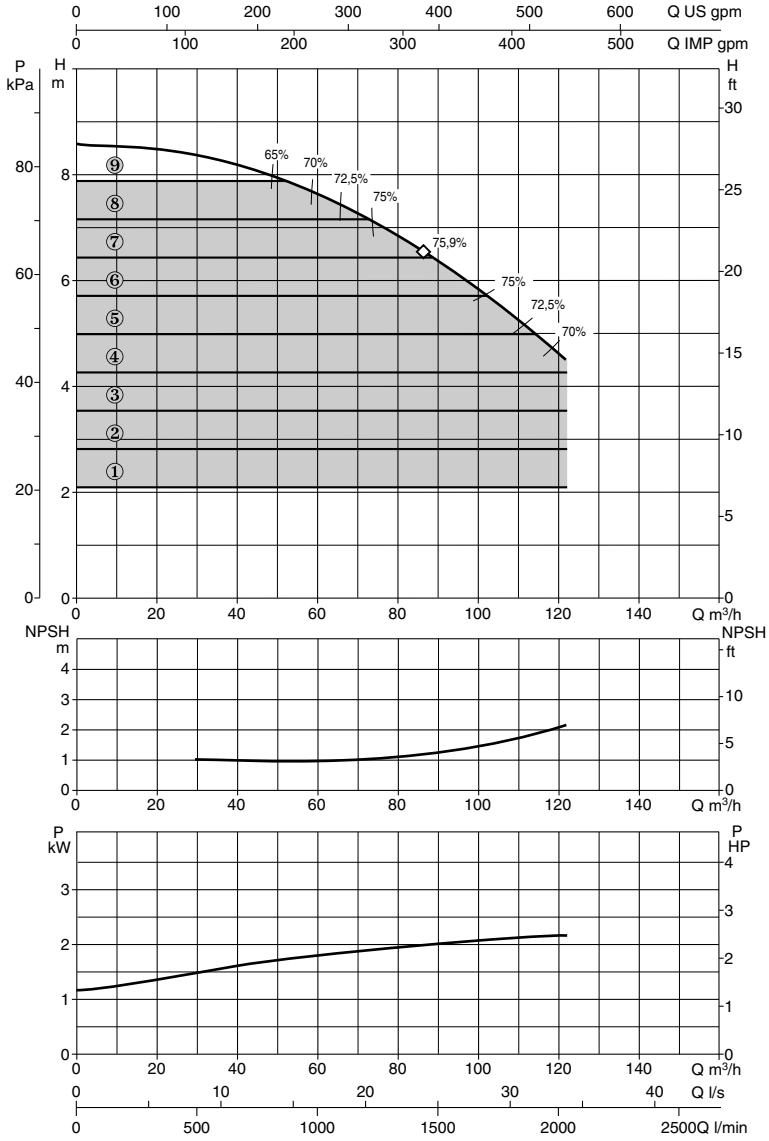
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 80-160/163 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 80-160/163/2,2/4	100	80	125	65	-	305	342	180	225	452	299	125	95	320	250	M12	-	-	100	28	670	420	540	0,15	77,3

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	30	42	54	66	78	90	114	120
						l/min	0	500	700	900	1100	1300	1500	1900	2000
NKM-GE 80-160/163/2,2/4	MEC 100	3x380/480 V	2.2	3	9.3-5.4	H (m)	8.65	8.5	8.3	7.9	7.4	6.9	6.3	4.9	4.6

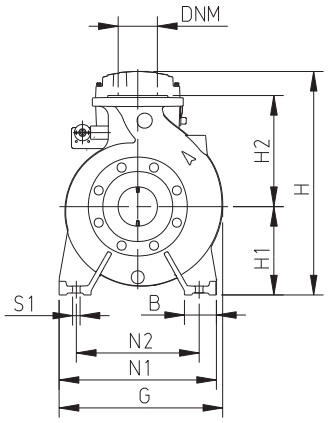
DAB PUMPS reserve the right to make modifications without prior notice

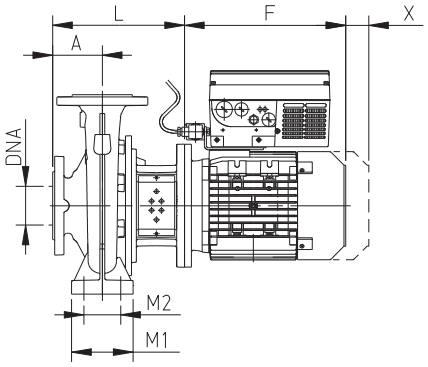
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

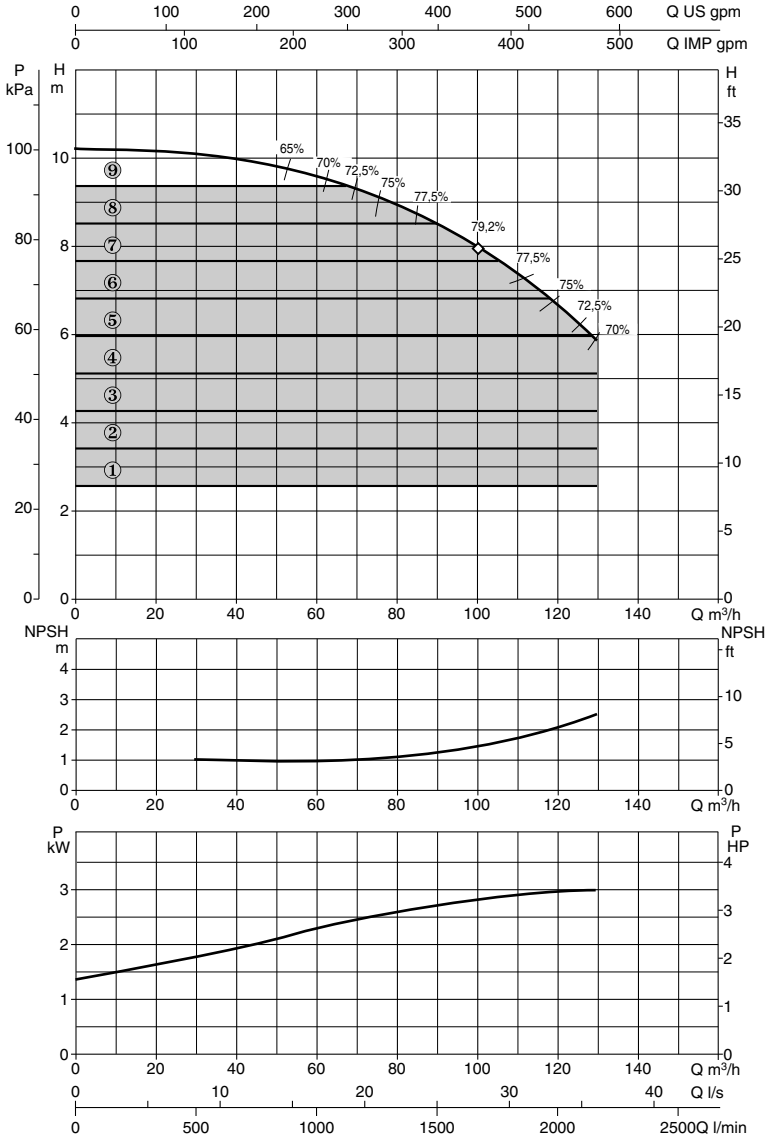
NKM-GE 80-160/177

≅ 1450 1/min





Motor construction type: B5



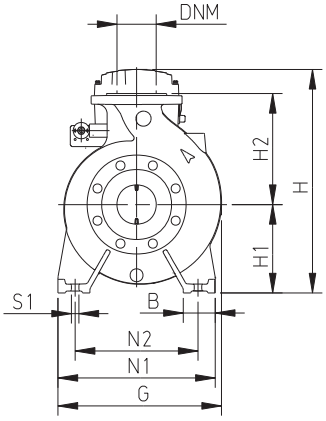
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 80-160/177/3 /4	100	80	125	65	-	305	342	180	225	452	299	125	95	320	250	M12	-	-	100	28	670	420	540	0,15	80,3

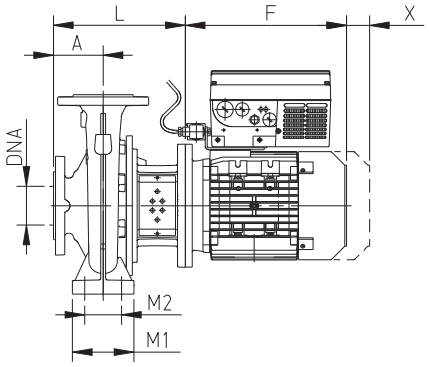
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	30	42	54	66	78	90	114	120
						l/min	0	500	700	900	1100	1300	1500	1900	2000
NKM-GE 80-160/177/3 /4	MEC 100	3x380/480 V	3	4	6.8	H (m)	10.2	10.2	10	9.75	9.5	9	8.6	7.2	6.7

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

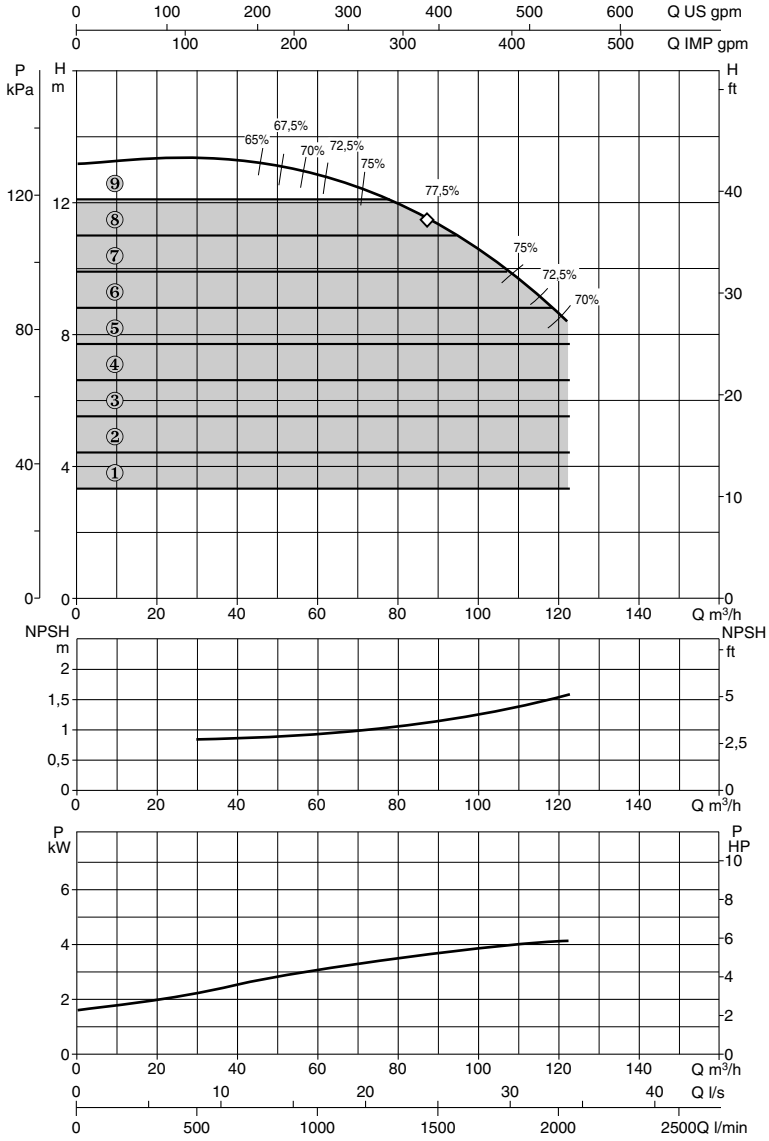
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 80-200/200 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 80-200/200/ 4 /4	100	80	125	65	-	328	365	180	250	464	368	125	95	345	280	M12	-	-	140	38	1030	530	640	0,35	150,7

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	42	54	66	72	78	90	114	120
						Q l/min	0	700	900	1100	1200	1300	1500	1900	2000
NKM-GE 80-200/200/ 4 /4	MEC 112	3x380/480 V	4	5.5	8.5	H (m)	13.2	13.2	13.1	12.7	12.4	12	11.3	9.3	8.7

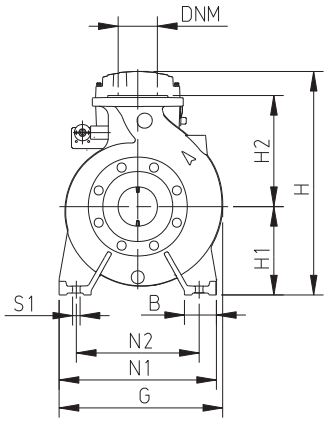
DAB PUMPS reserve the right to make modifications without prior notice

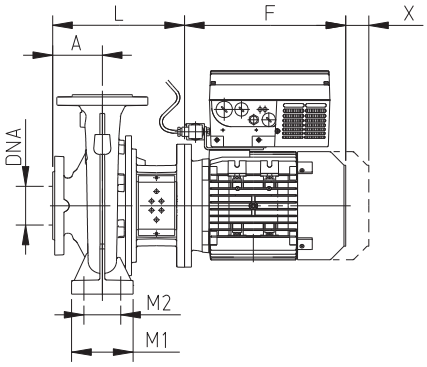
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

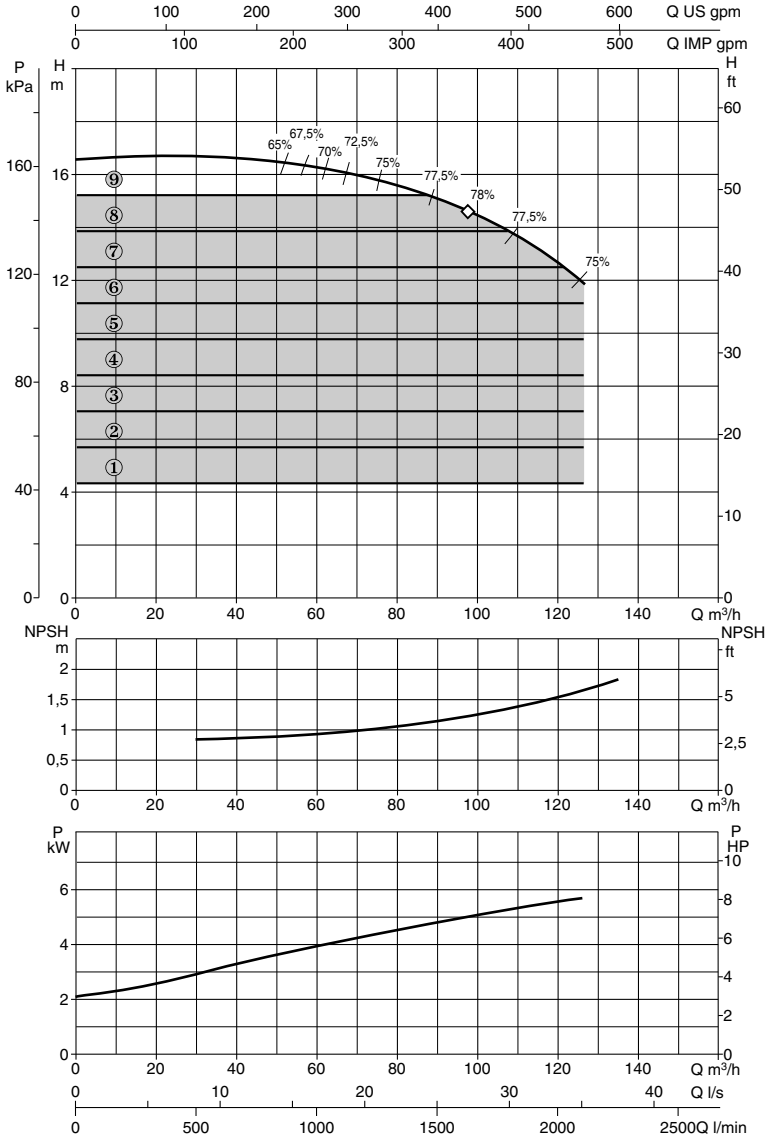
NKM-GE 80-200/222

≅ 1450 1/min





Motor construction type: B5



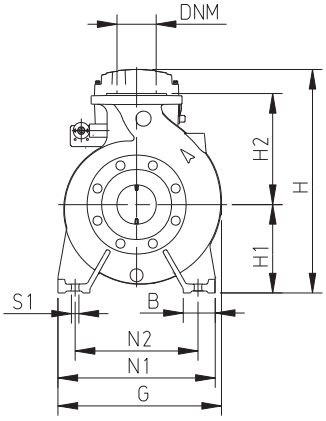
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 80-200/222/ 5,5 /4	100	80	125	65	-	369,5	365	180	250	484	368	125	95	345	280	M12	-	-	140	38	1030	530	640	0,35	126,3

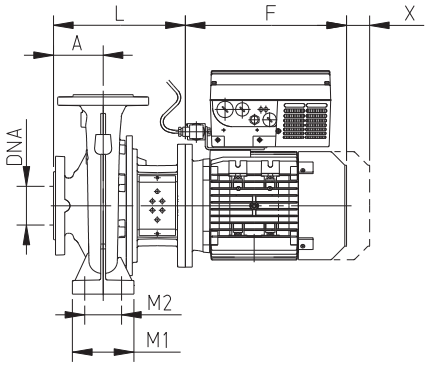
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	42	54	66	72	78	90	114	120
						l/min	0	700	900	1100	1200	1300	1500	1900	2000
NKM-GE 80-200/222/ 5,5 /4	MEC 132 S	3x380/480 V	5.5	7.5	11.3	H (m)	16.5	16.6	16.4	16.1	16	15.7	15	13.3	12.7

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

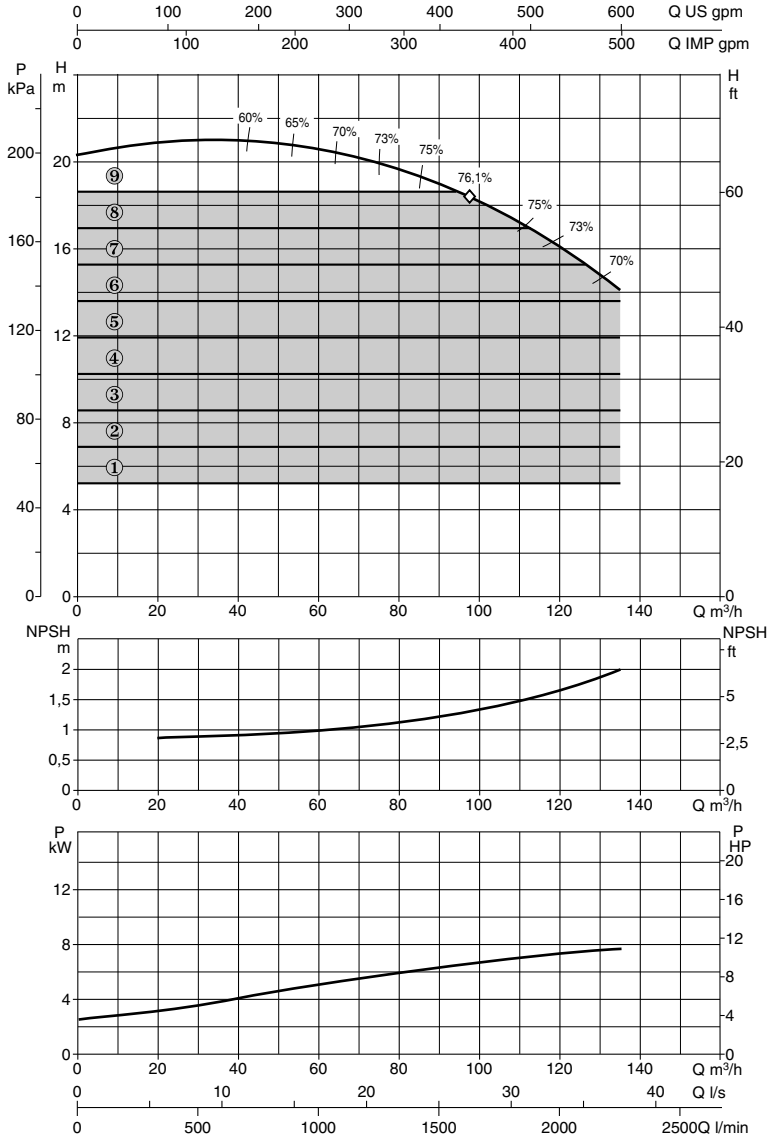
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 80-250/240 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE 80-250/240/7,5/4	100	80	125	80	-	405,5	410	200	280	504	368	160	120	400	315	M16	-	-	140	38	1030	530	640	0,35	176,3

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	42	54	66	72	78	90	114	120
						l/min	0	700	900	1100	1200	1300	1500	1900	2000
NKM-GE 80-250/240/7,5/4	MEC 132 M	3x380/480 V	7.5	10	14.7	H (m)	20.5	21	21	20.5	20	19.8	19	16.7	16

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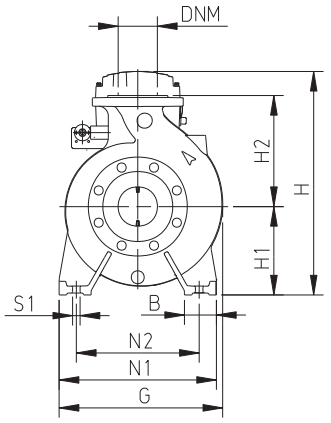
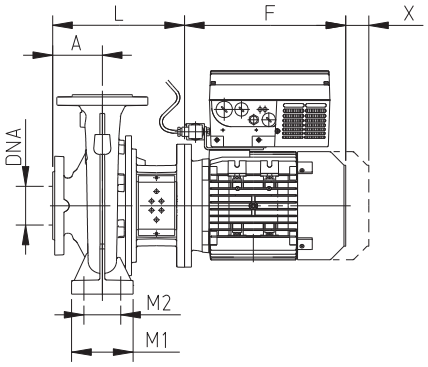
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

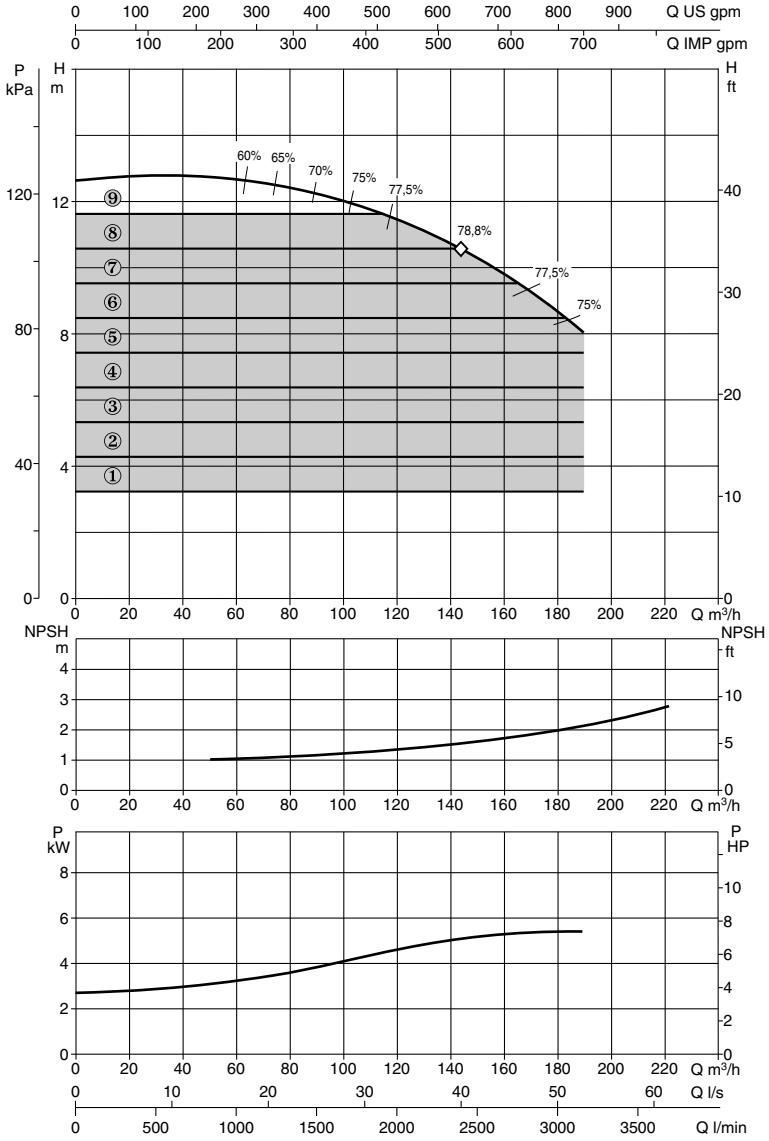
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 100-200/200 ≅ 1450 1/min





Motor construction type: B5



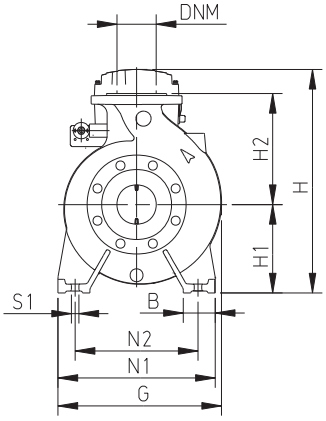
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE100-200/200/ 5.5 /4	125	100	125	80	-	369,5	392	200	280	504	368	160	120	360	280	M16	-	-	140	38	1030	530	640	0,35	141,3

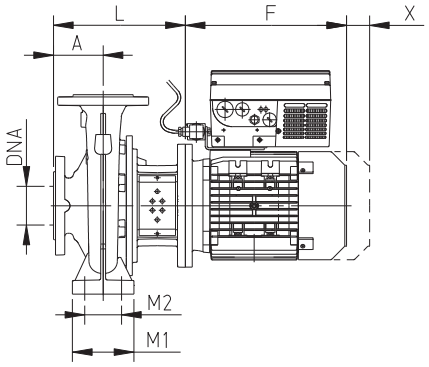
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	60	66	78	84	90	114	180	210
						l/min	0	100	1100	1300	1400	1500	1900	3000	3500
NKM-GE100-200/200/ 5.5 /4	MEC 132 S	3x380/480 V	5.5	7.5	11.3	H (m)	12.7	12.6	12.6	12.5	12.4	12.3	11.5	8.5	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

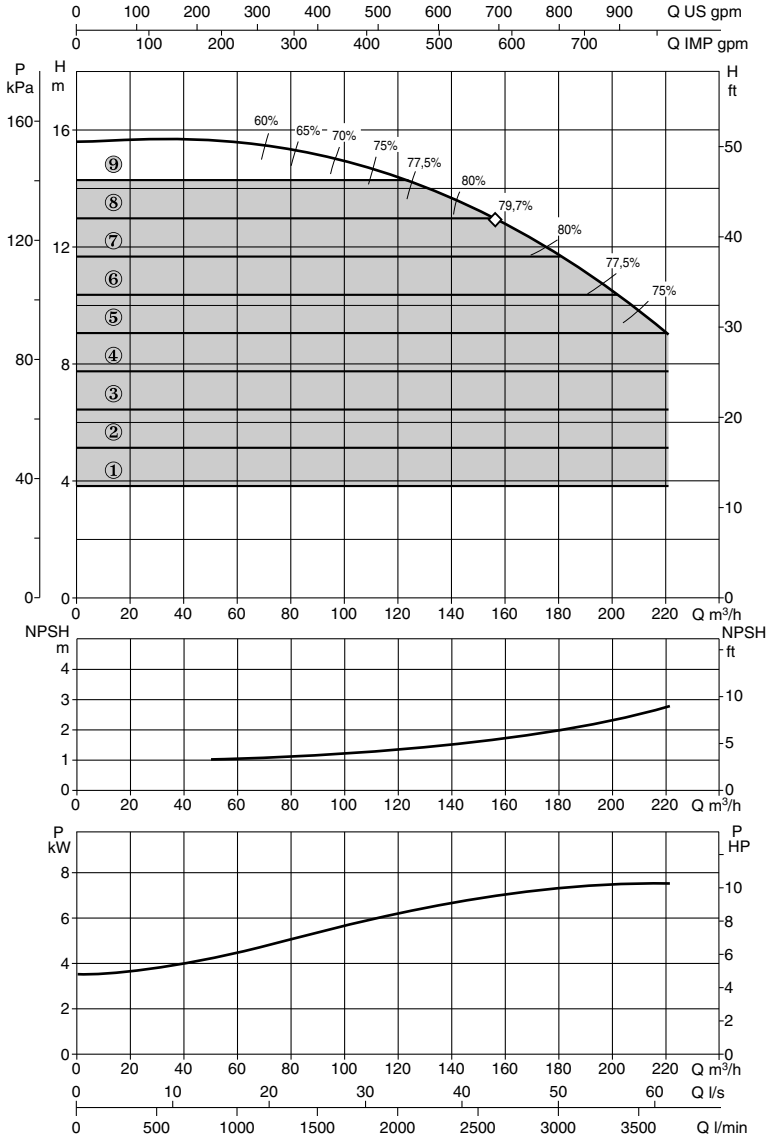
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKM-GE 100-200/214 ≅ 1450 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKM-GE100-200/214/7.5/4	125	100	125	80	-	407,5	392	200	280	504	368	160	120	360	280	M16	-	-	140	38	1030	530	640	0,35	146,3

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	60	66	78	84	90	114	180	210
						l/min	0	100	1100	1300	1400	1500	1900	3000	3500
NKM-GE100-200/214/7.5/4	MEC 132 M	3x380/480 V	7.5	10	14.7	H (m)	15.6	15.4	15.4	15.2	15.1	15	14.5	11.6	9.8

DAB PUMPS reserve the right to make modifications without prior notice

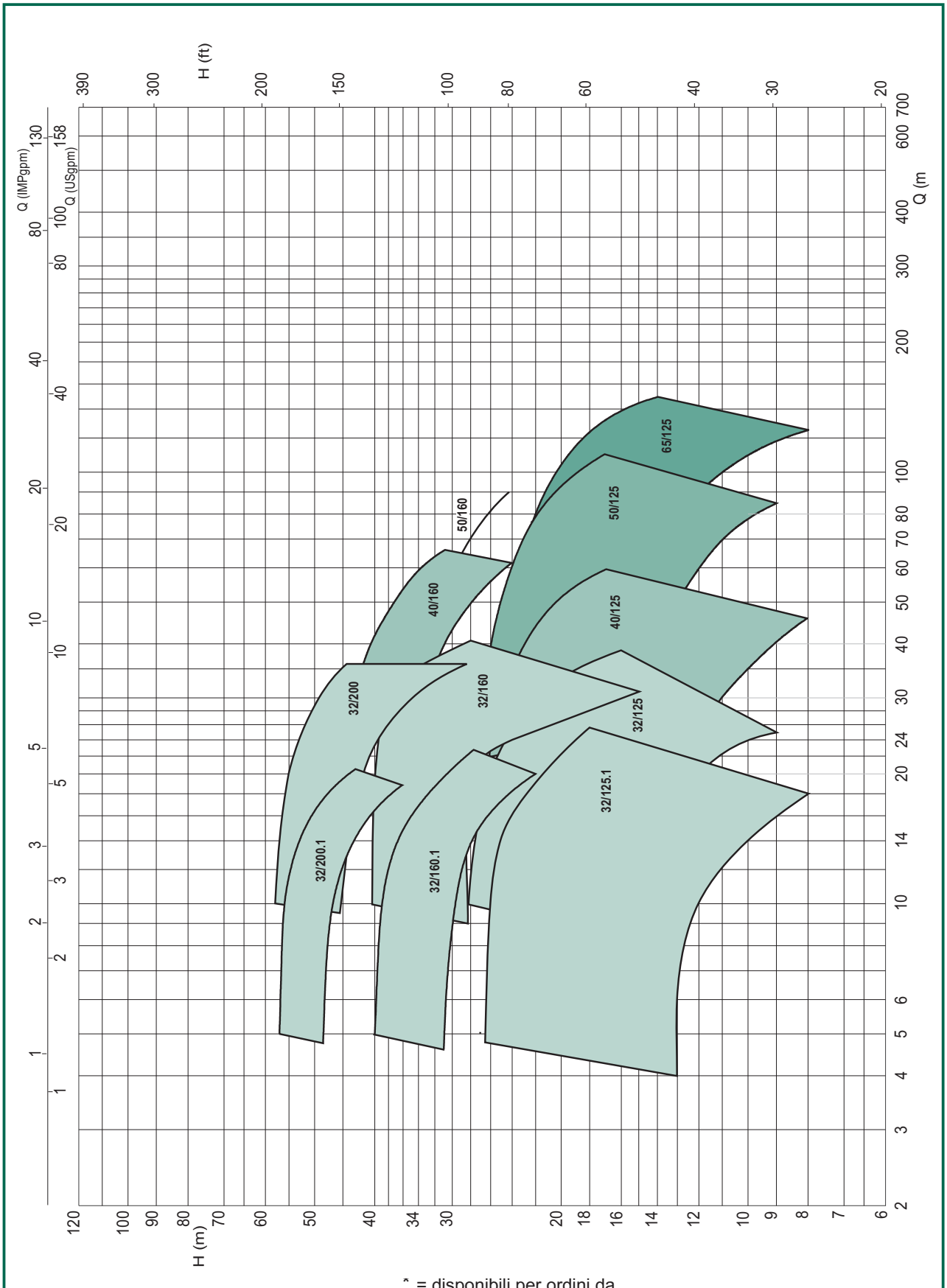
DAB PUMP PERFORMANCE

PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

≅ 2900 1/min



* = disponibili per ordini da ...

PERFORMANCE RANGE
NKP-GE

NUMERICAL SELECTION TABLE
≅ 2900 1/min

MODEL	P2 NOMINAL KW	P2 NOMINAL HP	Q m³/h	0	6	12	18	24	30	36	42	48	54	60
			l/min	0	100	200	300	400	500	600	700	800	900	1000
NKP-GE 32-125.1/102/0.75/2	0.75	1		13	12.5	11	8							
NKP-GE 32-125.1/115/1.1/2	1.1	1.5		17.2	17	15	12.5							
NKP-GE 32-125.1/125/1.5/2	1.5	2		21	20.8	19	16.8							
NKP-GE 32-125.1/140/2.2/2	2.2	3		27	26.9	25.9	23	19.5						
NKP-GE 32-125/110/ 1.1 /2	1.1	1.5		15.8	15.4	14.5	12.9	9.9						
NKP-GE 32-125/120/ 1.5 /2	1.5	2		19.4	19	18.2	16.8	14.5						
NKP-GE 32-125/130/ 2.2 /2	2.2	3		23.7	23.4	23	21.8	19.8	16.8					
NKP-GE 32-125/142/ 3 /2	3	4		28.6	28.2	27.6	26.5	24.6	21.8	17.9				
NKP-GE 32-160.1 155/2.2/2	2.2	3		29.2	29	26,5	20,5							
NKP-GE 32-160.1 166/3 /2	3	4		35.3	35	33	28							
NKP-GE 32-160/151/3 /2	3	4		30.5	30	29	27	24	19.5					
NKP-GE 32-160/163/4 /2	4	5.5		36	36	35	33.5	30.5	27	22				
NKP-GE 32-160/177/5,5/2	5.5	7.5		43.5	43.2	42.6	41.5	39	36	31.5	25.5			
NKP-GE 32-200.1 188/4 /2	4	5.5		45.3	44.4	40.8	34.4	26.8						
NKP-GE 32-200.1 205/5,5/2	5.5	7.5		56.6	55.7	52	45.8	36.2						
NKP-GE 32-200/190/ 5.5 /2	5.5	7.5	H (m)	47	46.5	45	43	40	35	29				
NKP-GE 32-200/210/ 7.5 /2	7.5	10		58.5	58	57	56	53	49	44				
NKP-GE 40-125/107/ 1.5 /2	1.5	2		14.7	14.5	14.3	13.8	13	11.8	10.5	8.6	7		
NKP-GE 40-125/120/ 2.2 /2	2.2	3		19	18.7	18.4	17.8	17	15.9	14.6	13	11		
NKP-GE 40-125/130/ 3 /2	3	4		22.8	22.5	22.3	22	21.2	20.2	19	17.4	15.5	13.5	
NKP-GE 40-125/139/ 4 /2	4	5.5		26.4	26.2	26	25.6	25	24	23	21.5	19.5	17.5	15
NKP-GE 40-160/158/ 5,5 /2	5.5	7.5		34			34	33.5	32.5	31	29.5	27	24	
NKP-GE 40-160/172/ 7,5 /2	7.5	10		41			41	41	40	39	37.5	35.5	33	30
NKP-GE 50-125/115/ 3 /2	3	4		17				16.5	16	15.5	15	14.5	13.7	13
NKP-GE 50-125/125/ 4 /2	4	5.5		20.5				20	19.5	19.1	18.5	18	17.5	16.5
NKP-GE 50-125/135/ 5,5 /2	5.5	7.5		24				23.6	23.5	23.2	22.8	22.2	21.5	21
NKP-GE 50-125/144/ 7,5 /2	7.5	10		28				27.8	27.5	27.3	27	26.5	25.8	25.3
NKP-GE 50-160/153/ 7.5 /2	7.5	10		32				32.5	32.4	32	31.5	31	30.5	29.5
NKP-GE 65-125/120-110/4/2	4	5.5		16						15	14.6	14.2	13.7	13.3
NKP-GE 65-125/127/ 5,5 /2	5.5	7.5		19.5						19	18.9	18.7	18.4	18.1
NKP-GE 65-125/137/ 7,5 /2	7.5	10		23.5						23.1	23	22.8	22.6	22.5

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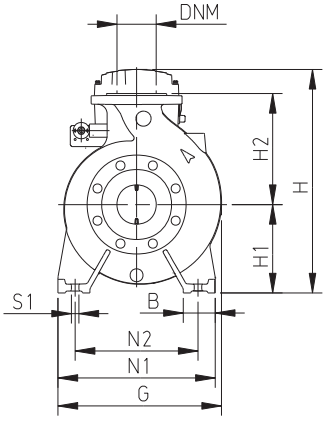
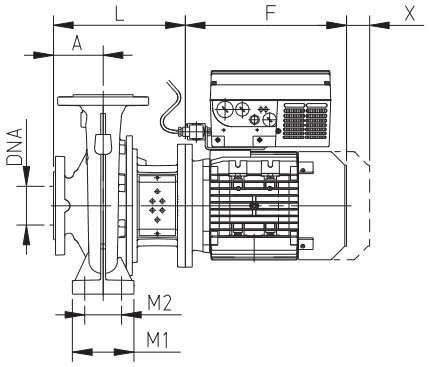
66	72	78	84	90	102	114	120	150	180	210	240	270	300	330	360	390	420
1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
26.5																	
12	11	10	9														
15.8	14.8	14	12.5	11.5													
20	19.1	18.5	17.5	16.5	13.4												
24.5	23.5	23	21.5	20.5	18	15.5											
28.5	27.5	26	25	23.5													
12.8	12.3	12	11.4	10	8.5	8											
17.5	17.2	16.9	16.5	15.8	14.5	13	12										
22	21.6	21.1	20.7	20.2	19	17.5	14.8	12									

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

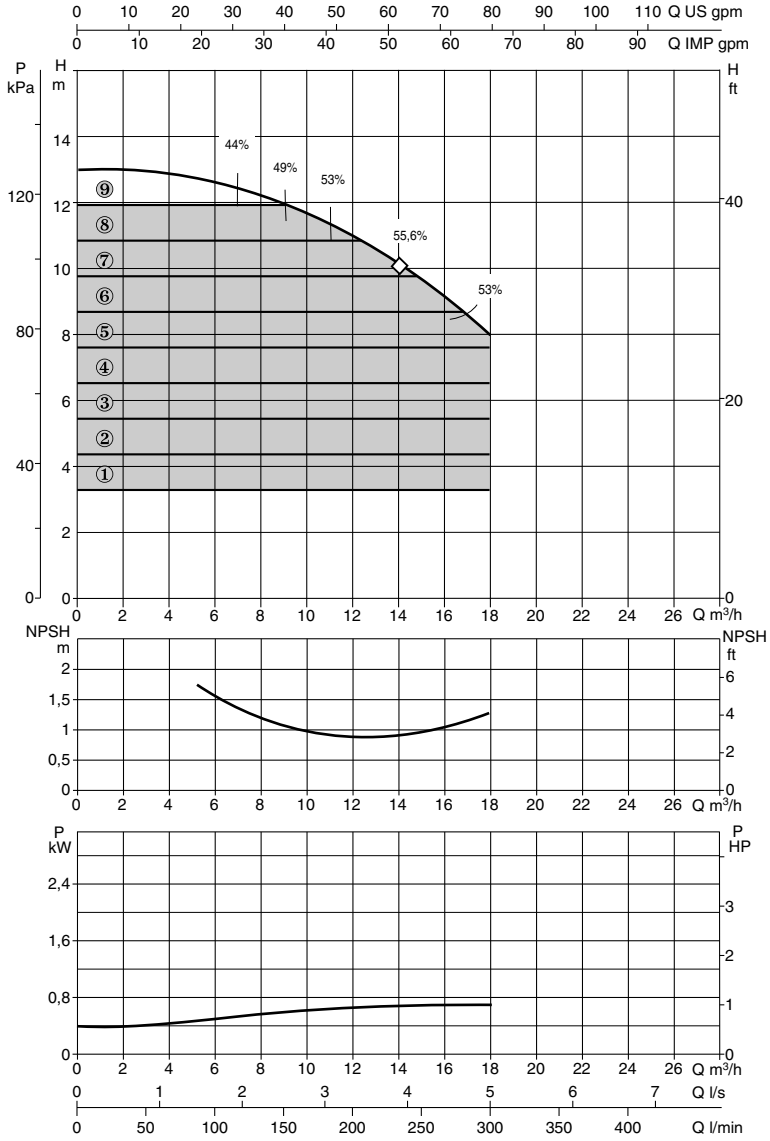
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-125.1/102 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-125.1/102/0.75/2	50	32	80	50	-	232	234	112	140	480	226	100	70	190	140	M12	-	-	100	28	620	370	480	0,11	47

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-125.1/102/0.75/2	MEC 80	1x208/240 V	0.75	1	3.2-1.9	H (m)	13	12.5	11	8	–	–	–	–	–

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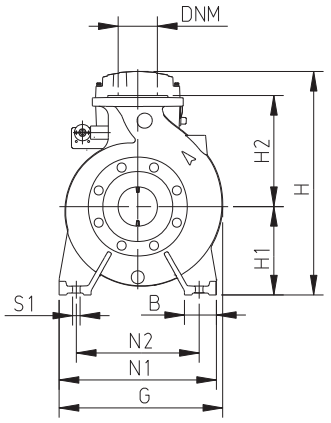
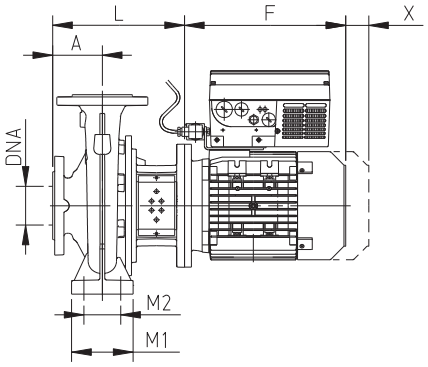
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

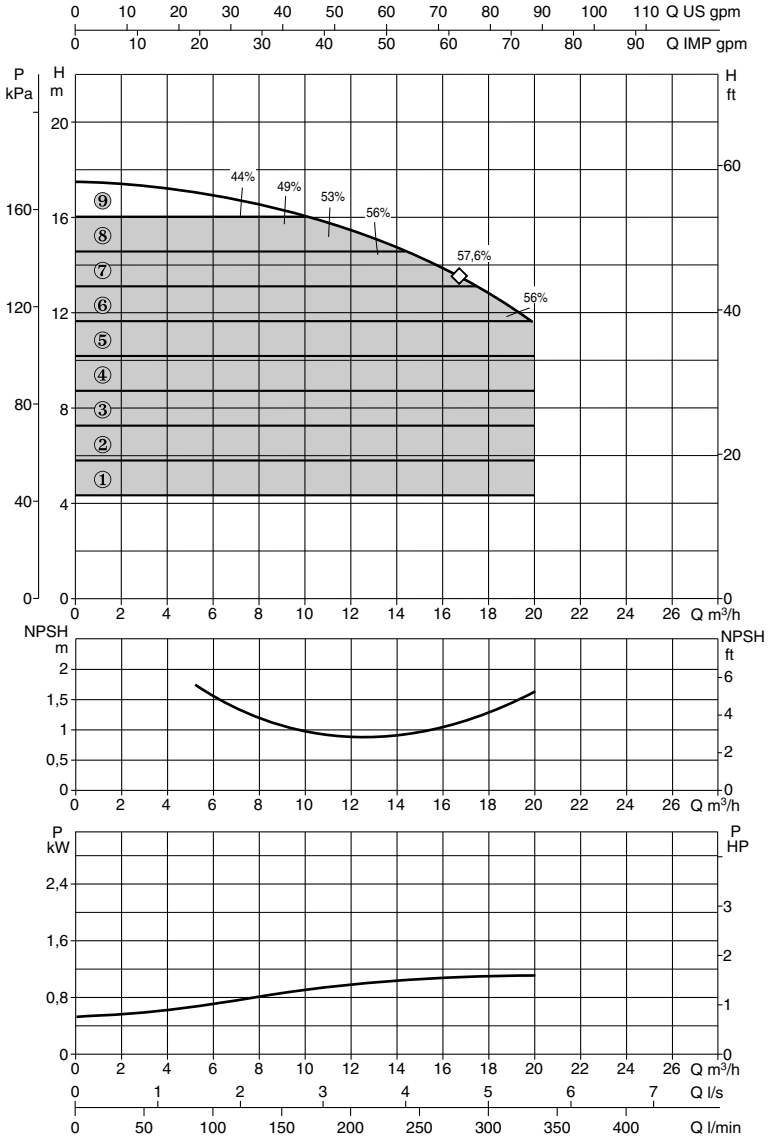
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-125.1/115 ≅ 2900 1/min





Motor construction type: B5



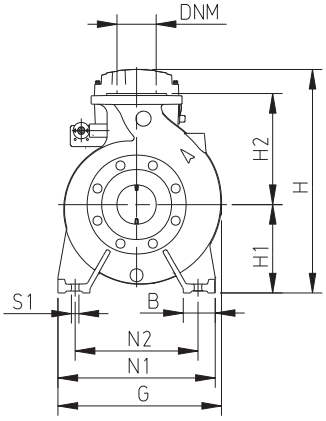
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-125.1/115/1.1/2	50	32	80	50	-	232	234	112	140	480	226	100	70	190	140	M12	-	-	100	28	620	370	480	0,11	52,3

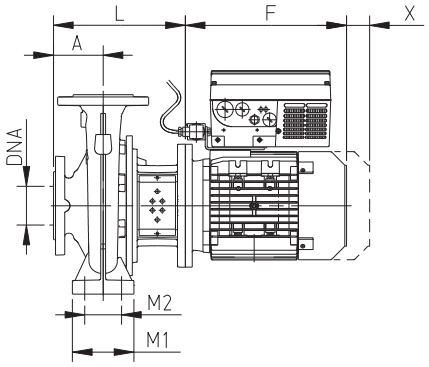
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-125.1/115/1.1/2	MEC 80	3x380/480 V	1.1	1.5	4.5-2.6	H (m)	17.2	17	15	12.5	–	–	–	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

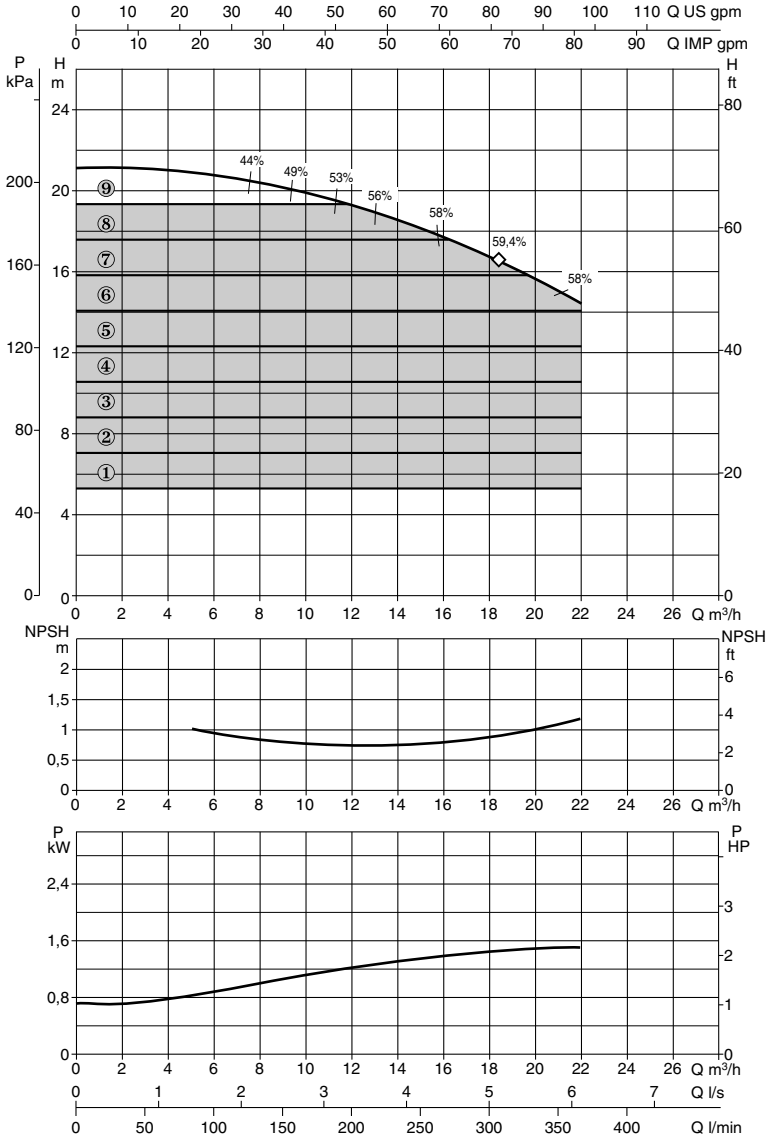
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-125.1/125 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-125.1/125/1.5/2	50	32	80	50	-	267	234	112	140	480	226	100	70	190	140	M12	-	-	100	28	620	370	480	0,11	53,7

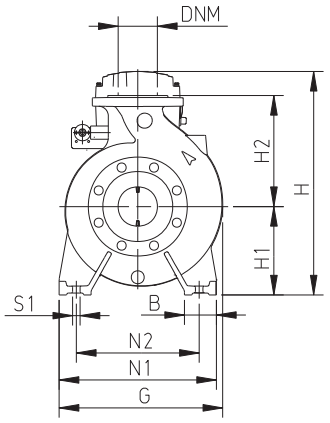
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-125.1/125/1.5/2	MEC 90 S	3x380/480 V	1.5	2	5.9-3.4	H (m)	21	20.8	19	16.8	–	–	–	–	–

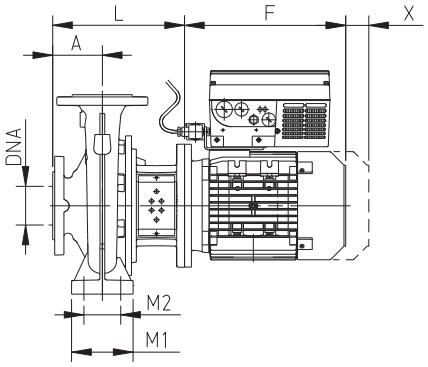
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

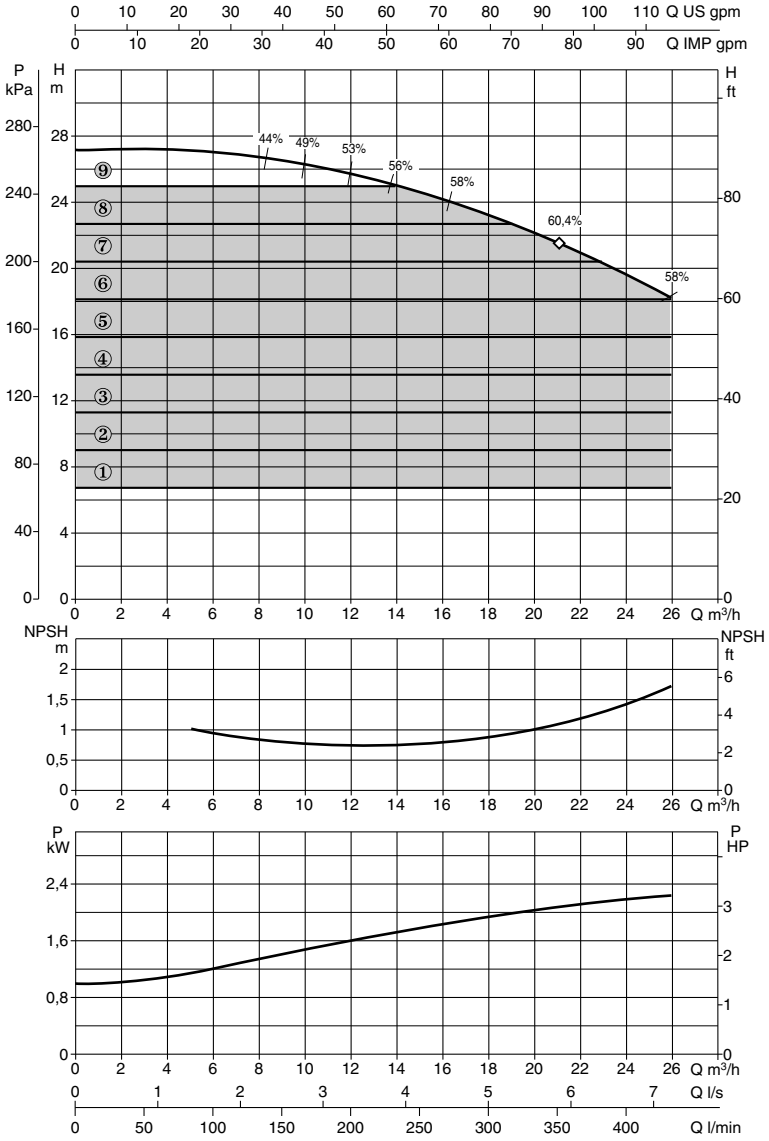
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-125.1/140 ≅ 2900 1/min





Motor construction type: B5



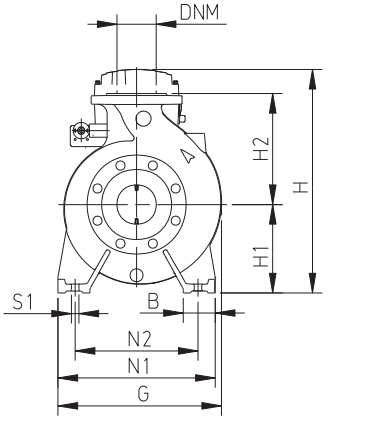
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-125.1/140/2.2/2	50	32	80	50	-	267	234	112	140	480	226	100	70	190	140	M12	-	-	100	28	620	370	480	0,11	55,7

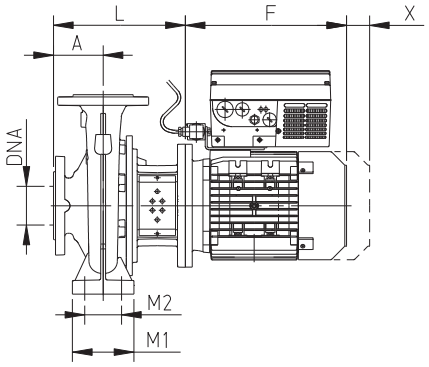
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-125.1/140/2.2/2	MEC 90 L	3x380/480 V	2.2	3	8.5-4.9	H (m)	27	26.9	25.9	23	19.5	–	–	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

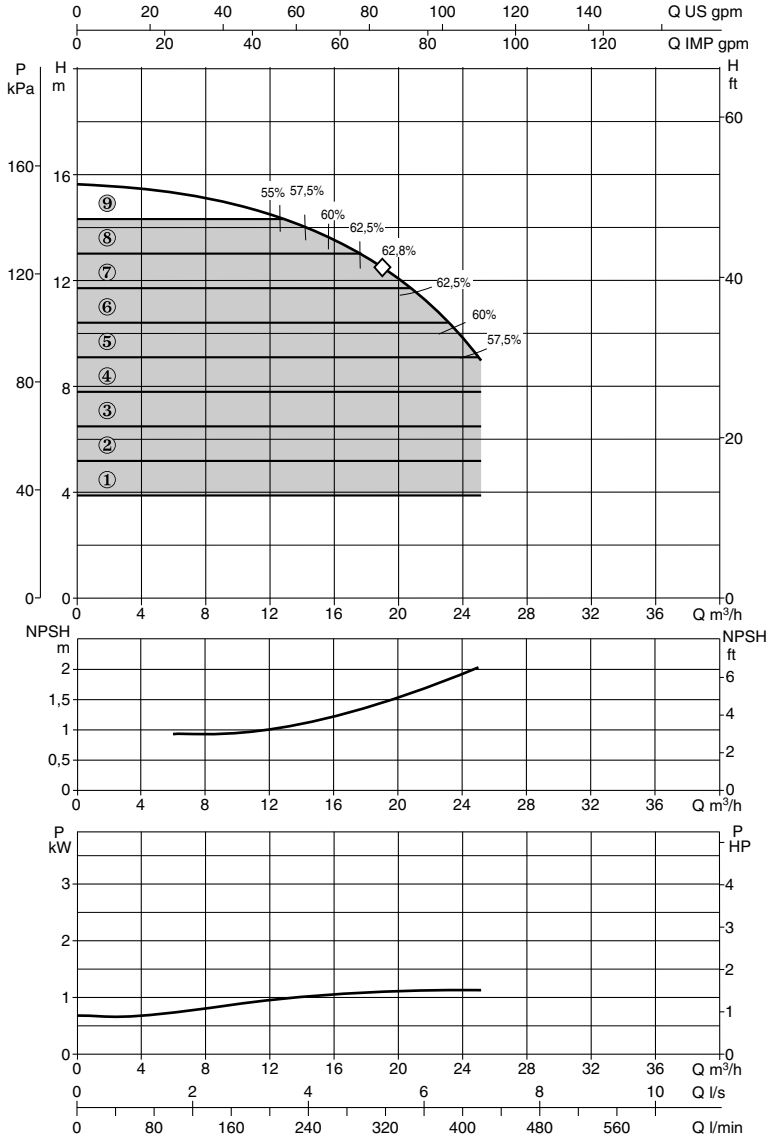
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-125/110 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-125/110/ 1.1 /2	50	32	80	50	-	232	234	112	140	480	226	100	70	190	140	M12	-	-	100	28	620	370	480	0,11	42,2

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-125/110/ 1.1 /2	MEC 80	3x380/480 V	1.1	1.5	4.5-2.6	H (m)	15.8	15.4	14.5	12.9	9.9	–	–	–	–

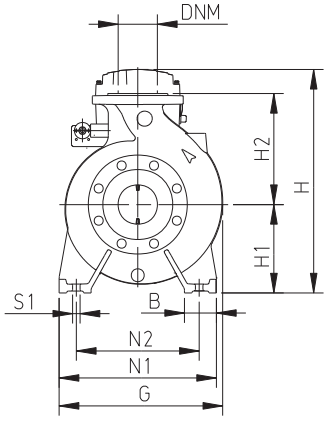
DAB PUMPS reserve the right to make modifications without prior notice

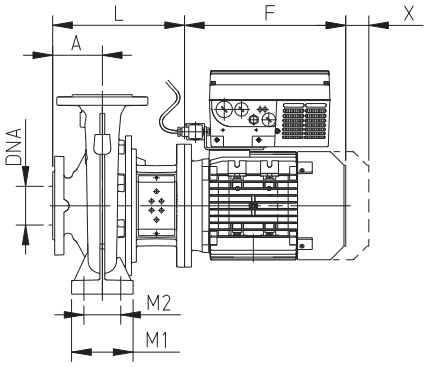
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

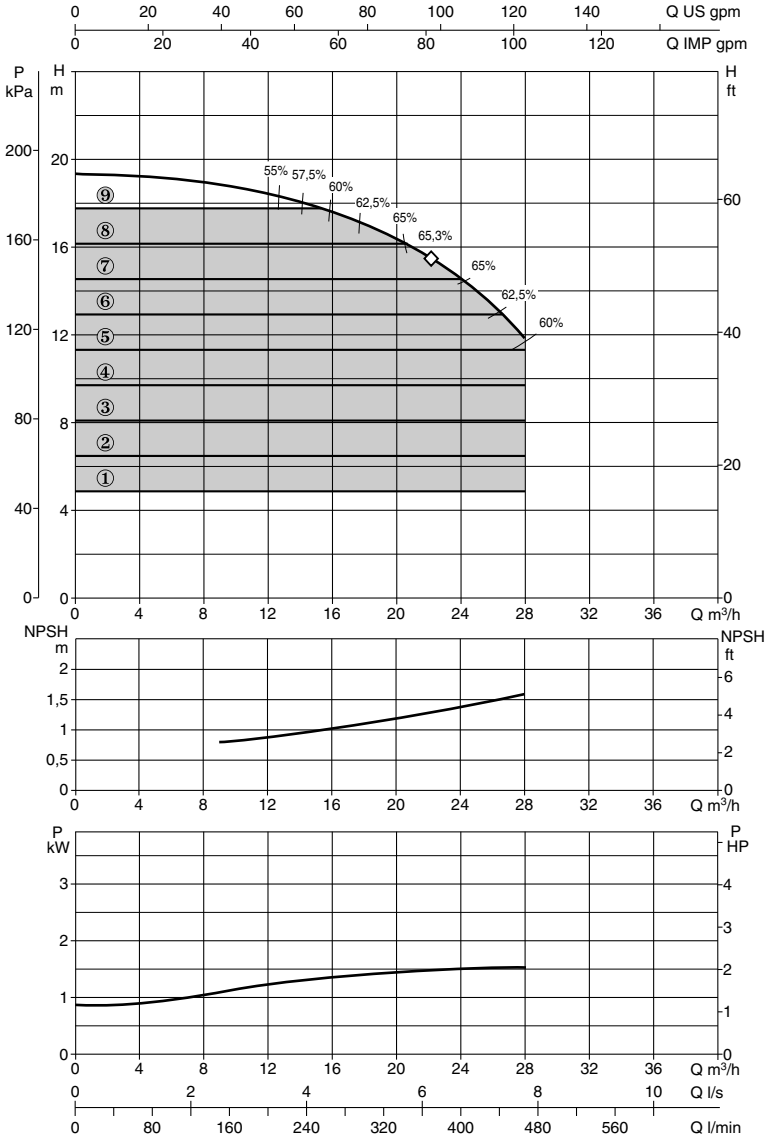
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-125/120 ≅ 2900 1/min





Motor construction type: B5



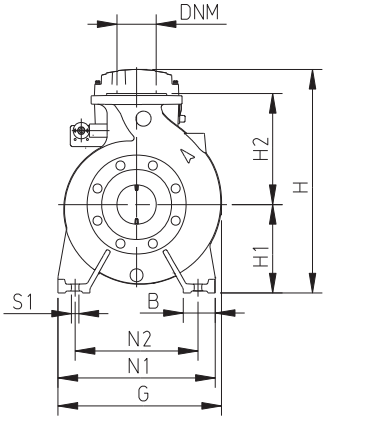
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-125/120/1.5 /2	50	32	80	50	-	267	234	112	140	480	226	100	70	190	140	M12	-	-	100	28	620	370	480	0,11	43,2

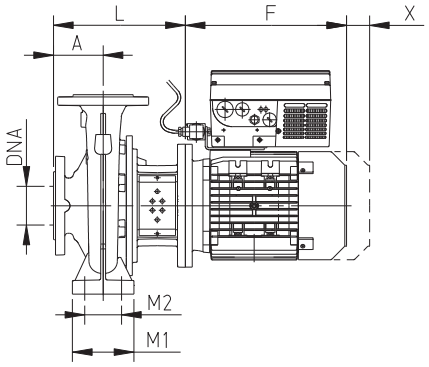
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-125/120/1.5 /2	MEC 90 S	3x380/480 V	1.5	2	5.9-3.4	H (m)	19.4	19	18.2	16.8	14.5	–	–	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

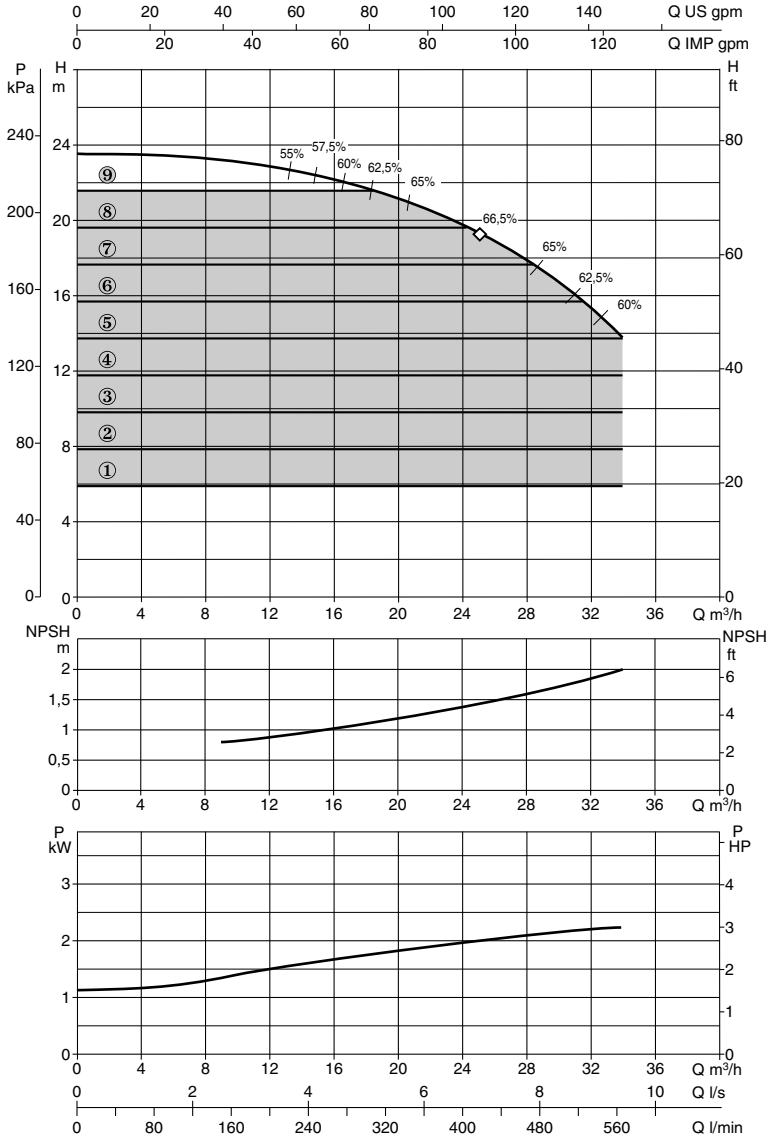
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-125/130 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-125/130/ 2.2 /2	50	32	80	50	-	267	234	112	140	480	226	100	70	190	140	M12	-	-	100	28	620	370	480	0,11	49,7

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-125/130/ 2.2 /2	MEC 90 L	3x380/480 V	2.2	3	8.5-4.9	H (m)	23.7	23.4	23	21.8	19.8	16.8	–	–	–

DAB PUMPS reserve the right to make modifications without prior notice

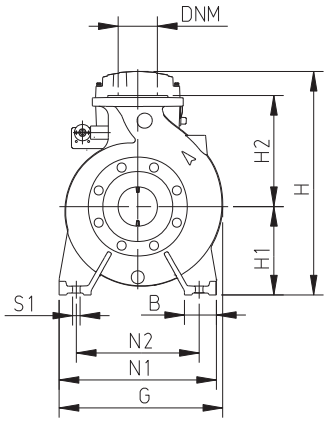
DAB PUMP PERFORMANCE

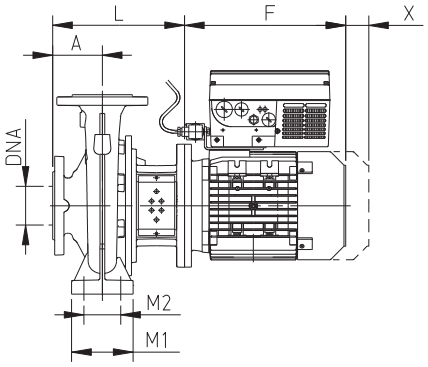
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

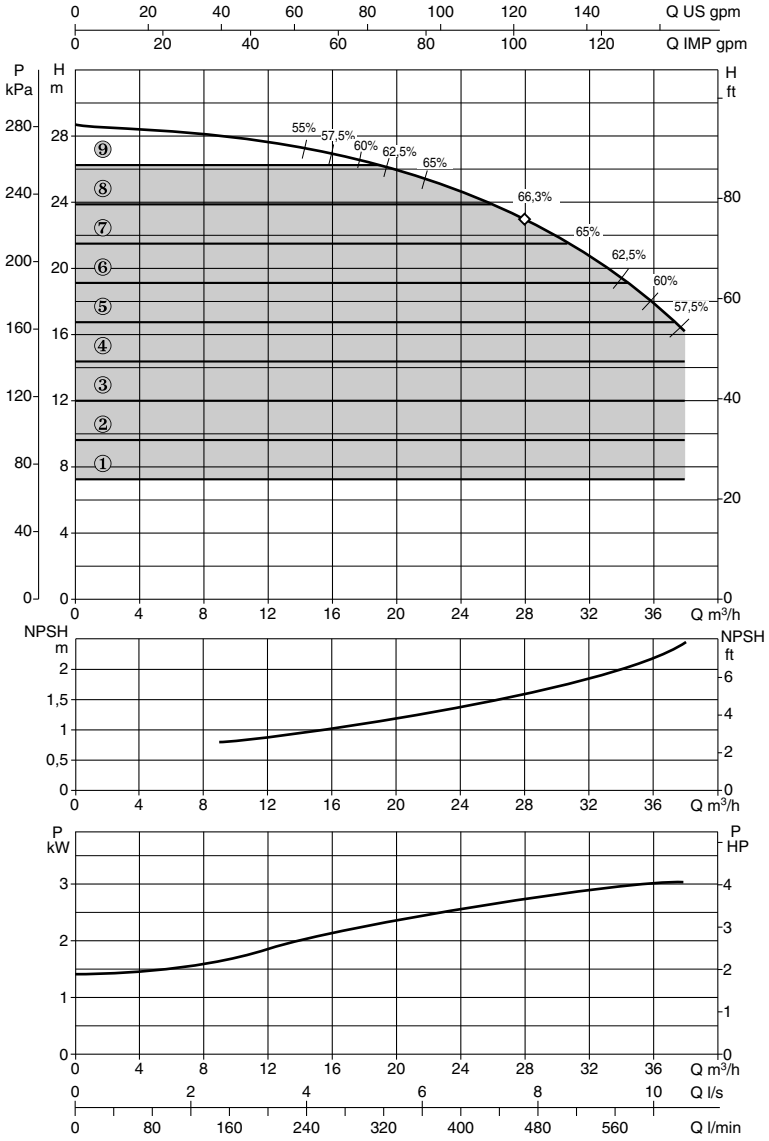
NKP-GE 32-125/142

≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-125/142/3 /2	50	32	80	50	-	547	234	112	140	540	226	100	70	190	140	M12	-	20	100	28	670	420	540	0,15	60

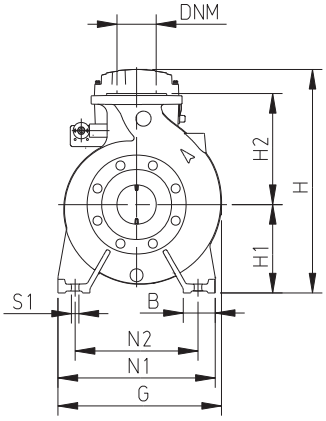
** Insert the indicated size of the shim under the feet of the motor (not supplied)

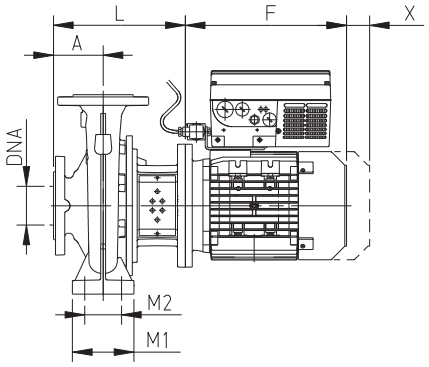
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-125/142/3 /2	MEC 100	3x380/480 V	3	4	6.4	H (m)	28.6	28.2	27.6	26.5	24.6	21.8	17.9	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

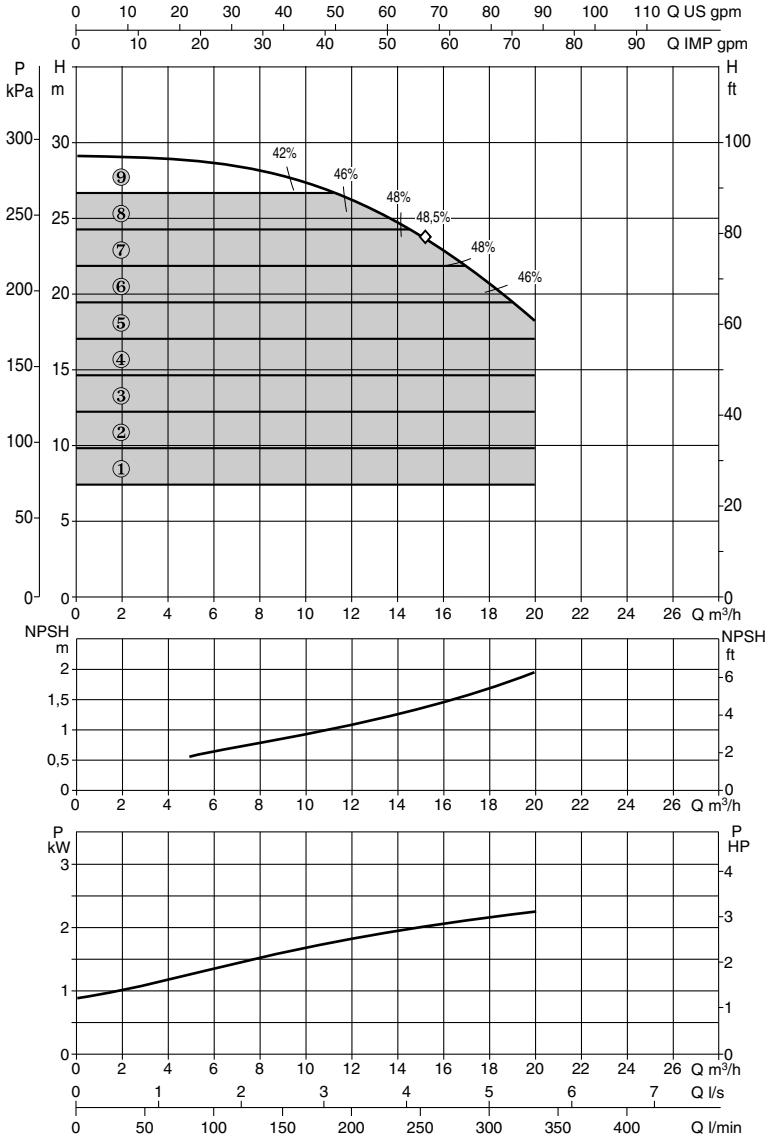
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-160.1/155 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-160.1/155/2.2/2	50	32	80	50	-	267	245	132	160	480	226	100	70	240	190	M12	-	-	100	28	620	370	480	0,11	67,4

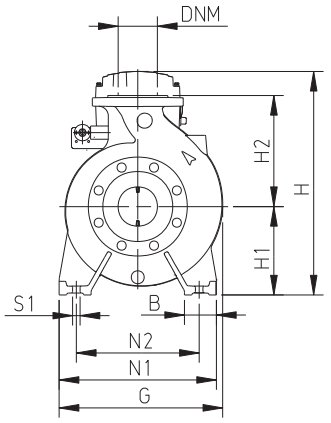
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-160.1/155/2.2/2	MEC 90 L	3x380/480 V	2.2	3	5.5-4.9	H (m)	29.2	29	26,5	20,5	–	–	–	–	–

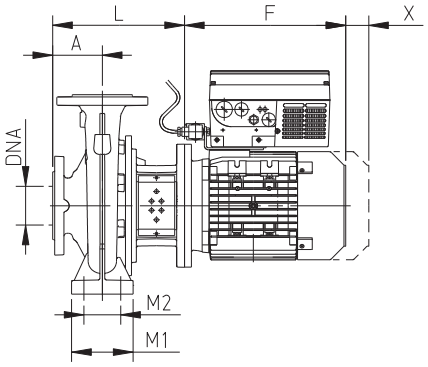
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

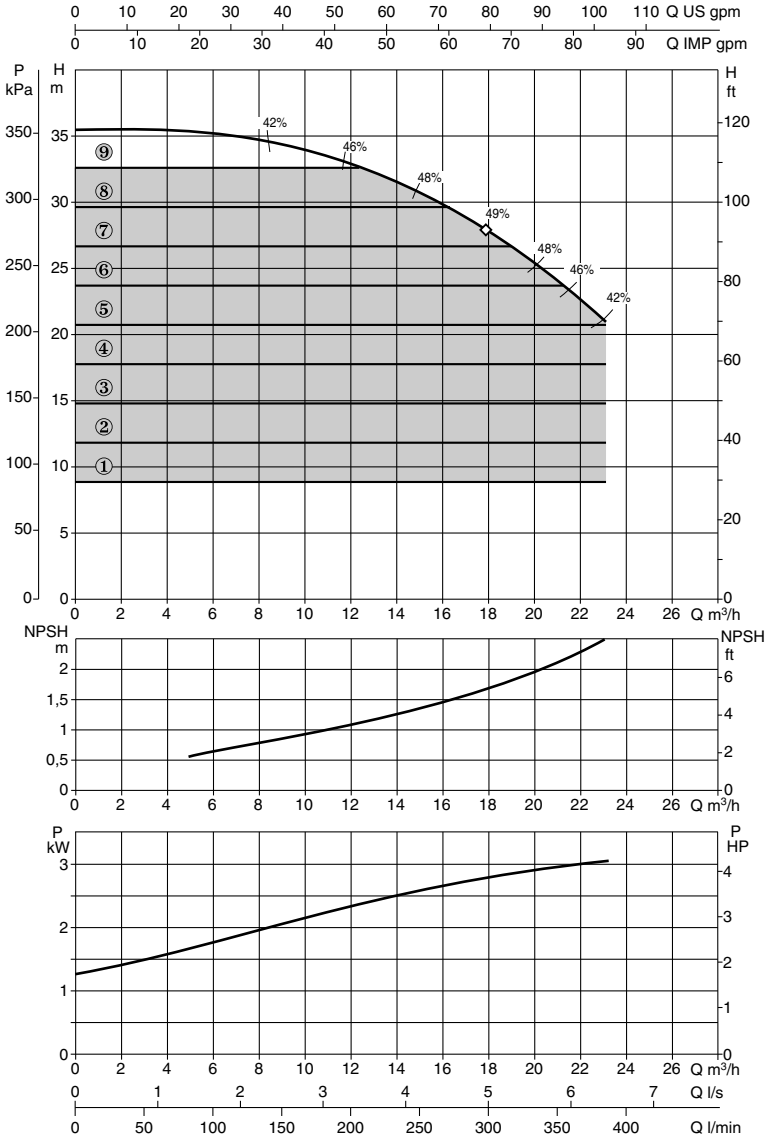
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-160.1/166 ≅ 2900 1/min





Motor construction type: B5



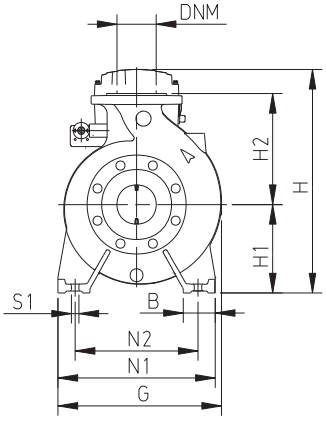
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-160.1/166/3 /2	50	32	80	50	-	305	245	132	160	540	254	100	70	240	190	M12	-	-	100	28	670	420	540	0,15	75,4

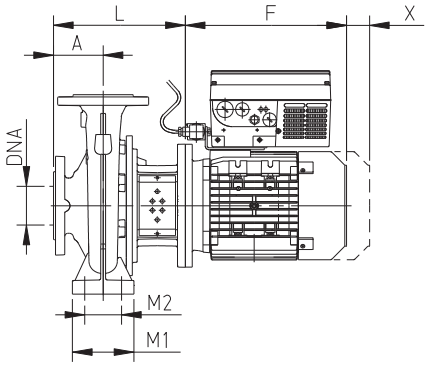
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-160.1/166/3 /2	MEC 100	3x380/480 V	3	4	6.4	H (m)	35.3	35	33	28	–	–	–	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

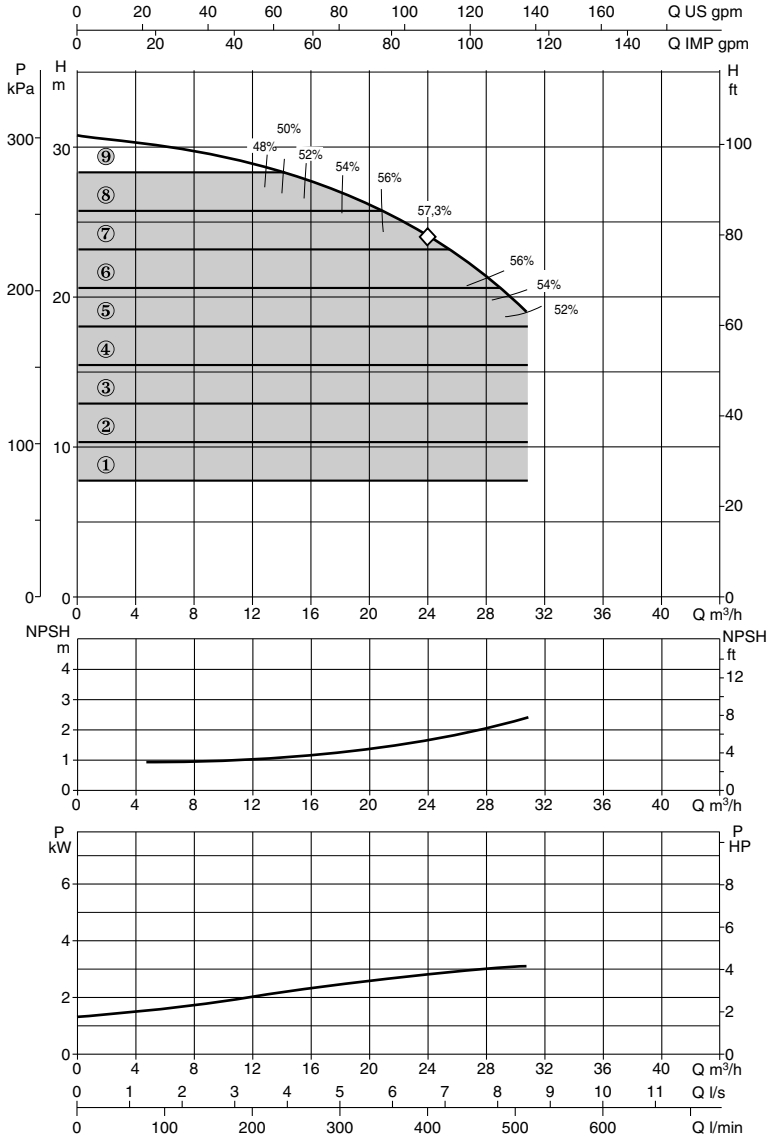
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-160/151 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-160/151/3 /2	50	32	80	50	-	305	245	132	160	540	254	100	70	240	190	M12	-	-	100	28	670	420	540	0,15	76,4

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-160/151/3 /2	MEC 100	3x380/480 V	3	4	6.4	H (m)	30.5	30	29	27	24	19.5	–	–	–

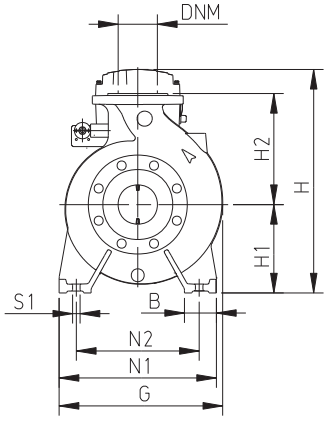
DAB PUMPS reserve the right to make modifications without prior notice

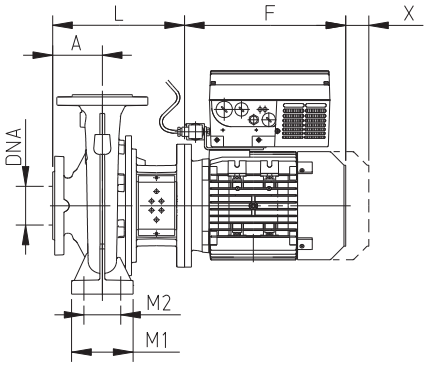
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

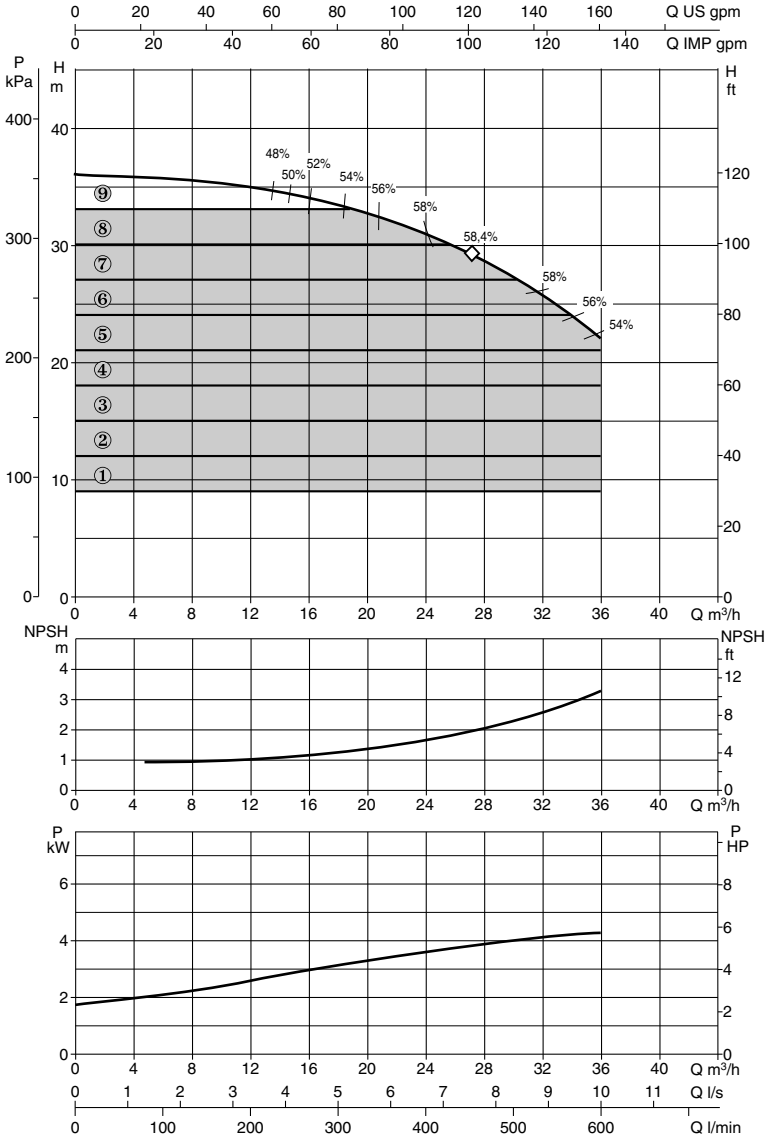
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-160/163 ≅ 2900 1/min





Motor construction type: B5



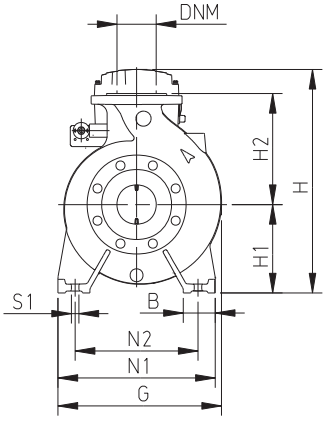
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg.
NKP-GE 32-160/163/4 /2	50	32	80	50	-	328	245	132	160	540	254	100	70	240	190	M12	-	-	100	28	670	420	540	0,15	86,4

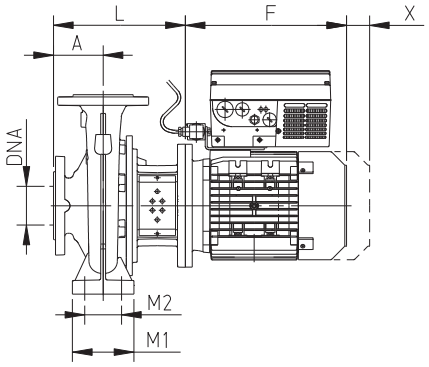
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-160/163/4 /2	MEC 112	3x380/480 V	4	5.5	8.5	H (m)	36	36	35	33.5	30.5	27	22	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

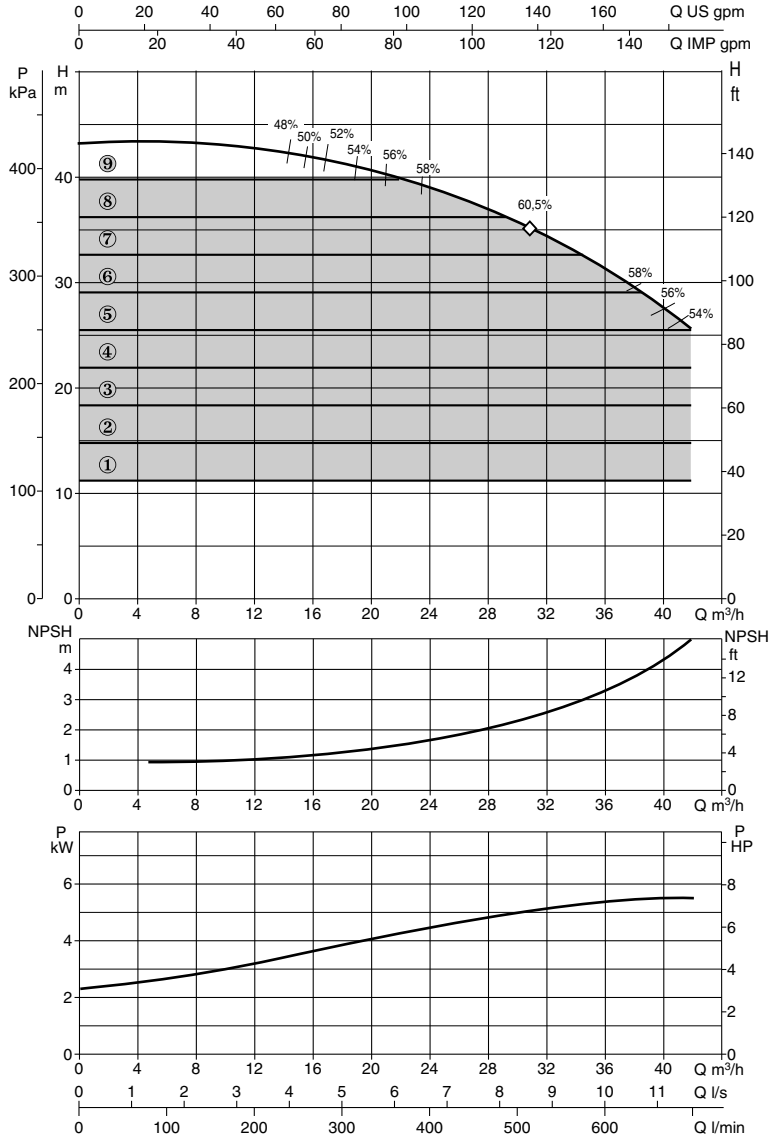
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-160/177 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-160/177/5,5/2	50	32	80	50	-	369,5	245	132	160	520	293	100	70	240	190	M12	-	20	100	28	830	430	520	0,18	110,4

** Insert the indicated size of the shim under the feet of the pump (not supplied).

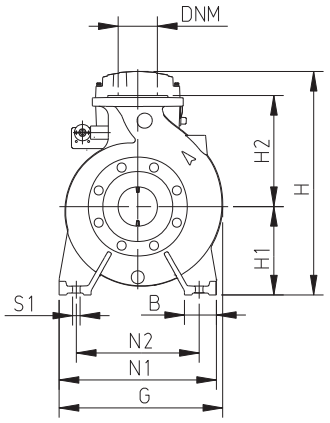
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-160/177/5,5/2	MEC 132 S	3x380/480 V	5.5	7.5	10.6	H (m)	43.5	43.2	42.6	41.5	39	36	31.5	25.5	–

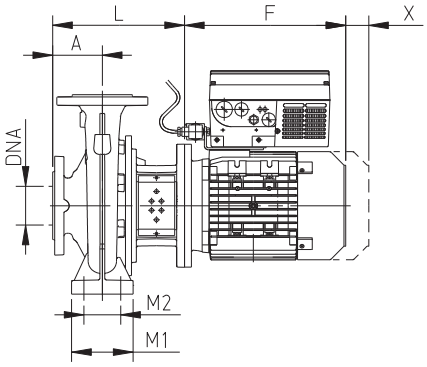
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

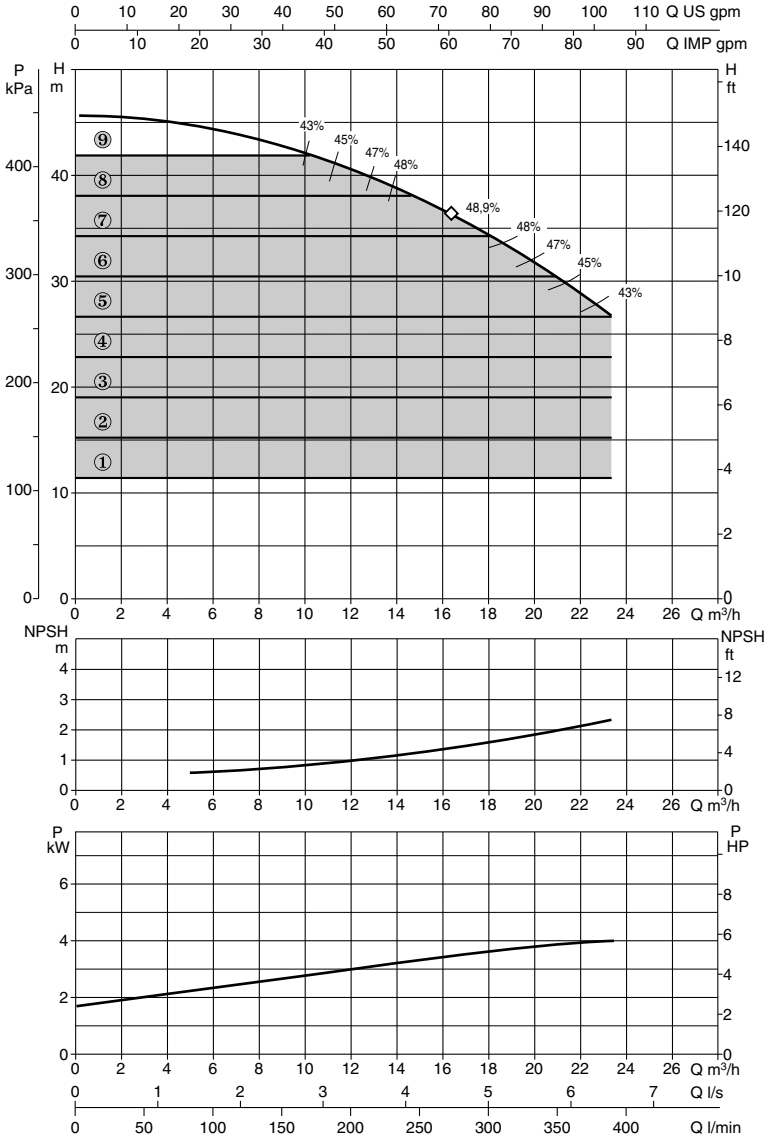
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-200.1/188 ≅ 2900 1/min





Motor construction type: B5



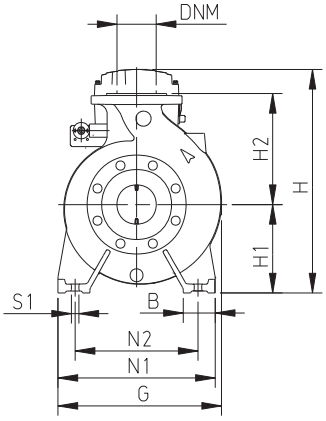
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-200.1 188/4 /2	50	32	80	50	-	328	301	160	180	540	254	100	70	240	190	M12	-	-	100	28	670	420	540	0,15	81,4

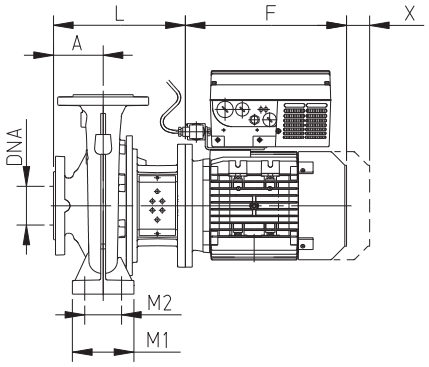
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-200.1 188/4 /2	MEC 112	3x380/480 V	4	5.5	8.5	H (m)	45.3	44.4	40.8	34.4	26.8	–	–	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

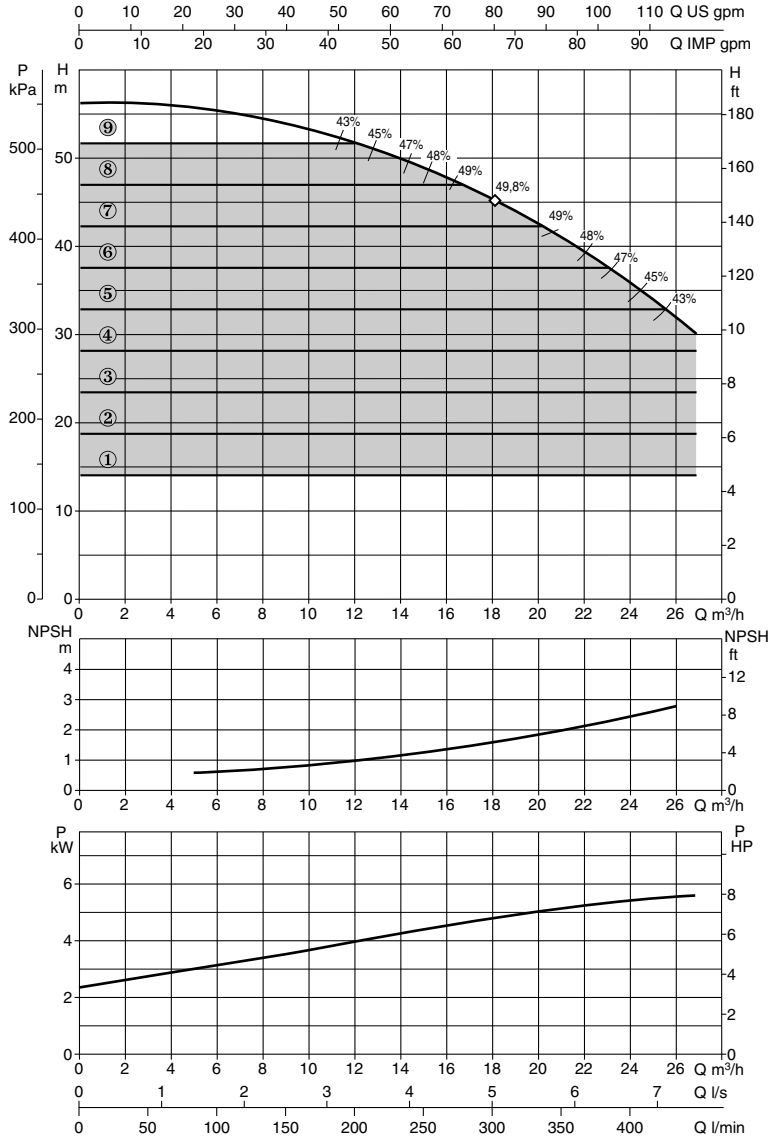
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-200.1/205 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-200.1/205/5,5/2	50	32	80	50	-	369,5	301	160	180	520	293	100	70	240	190	M12	-	-	100	28	830	430	520	0,18	92,4

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-200.1/205/5,5/2	MEC 132 S	3x380/480 V	5,5	7.5	10.6	H (m)	56.6	55.7	52	45.8	36.2	–	–	–	–

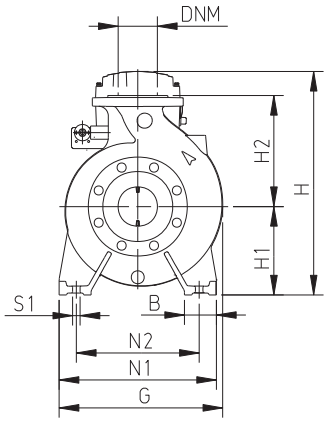
DAB PUMPS reserve the right to make modifications without prior notice

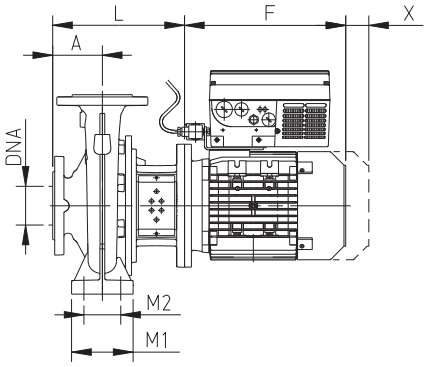
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

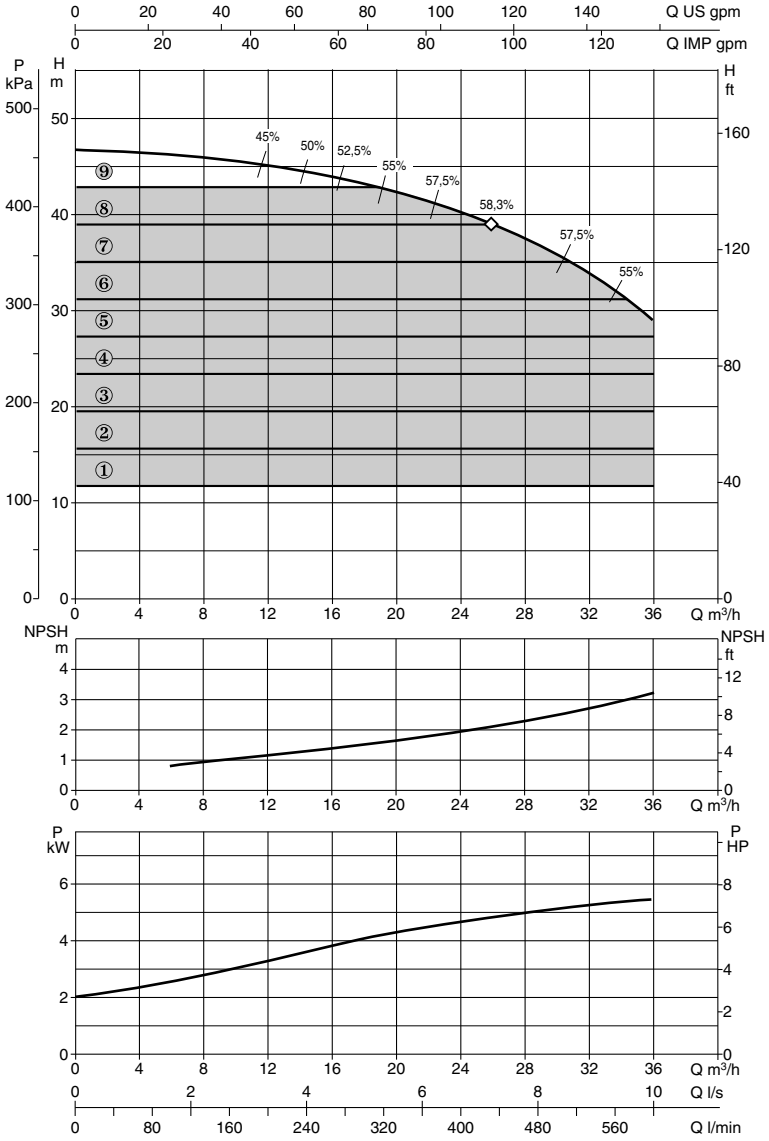
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-200/190 ≅ 2900 1/min





Motor construction type: B5



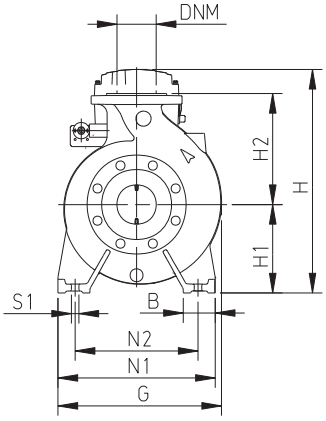
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-200/190/ 5.5 /2	50	32	80	50	-	369,5	301	160	180	520	293	100	70	240	190	M12	-	-	100	28	830	430	520	0,18	94,1

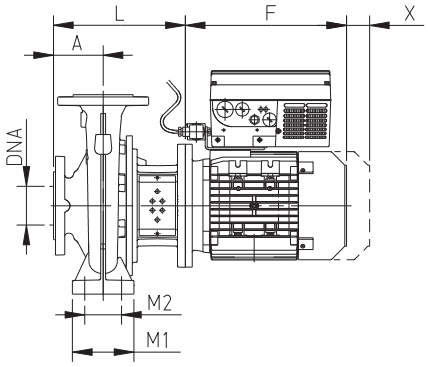
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-200/190/ 5.5 /2	MEC 132 S	3x380/480 V	5.5	7.5	10.6	H (m)	47	46.5	45	43	40	35	29	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

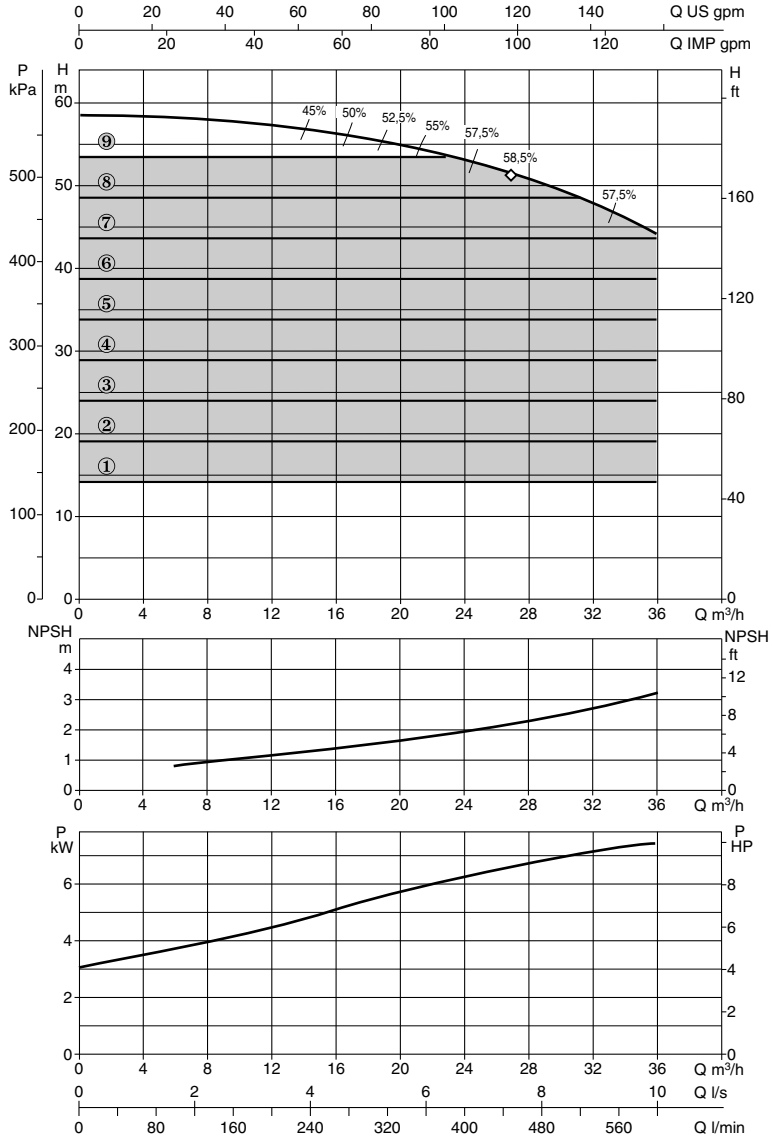
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 32-200/210 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 32-200/210/ 7.5 /2	50	32	80	50	-	369,5	301	160	180	520	293	100	70	240	190	M12	-	-	100	28	830	430	520	0,18	97,5

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
NKP-GE 32-200/210/ 7.5 /2	MEC 132 S	3x380/480 V	7.5	10	14.1	H (m)	58.5	58	57	56	53	49	44	–	–

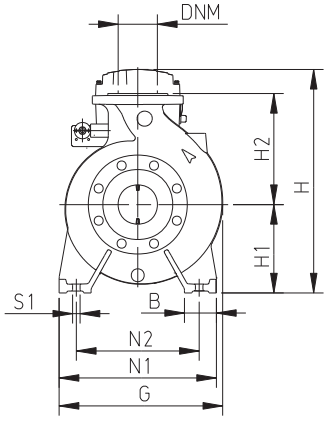
DAB PUMPS reserve the right to make modifications without prior notice

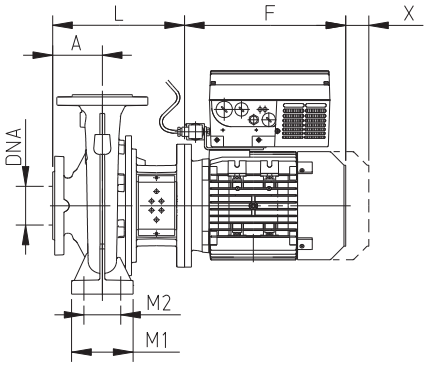
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

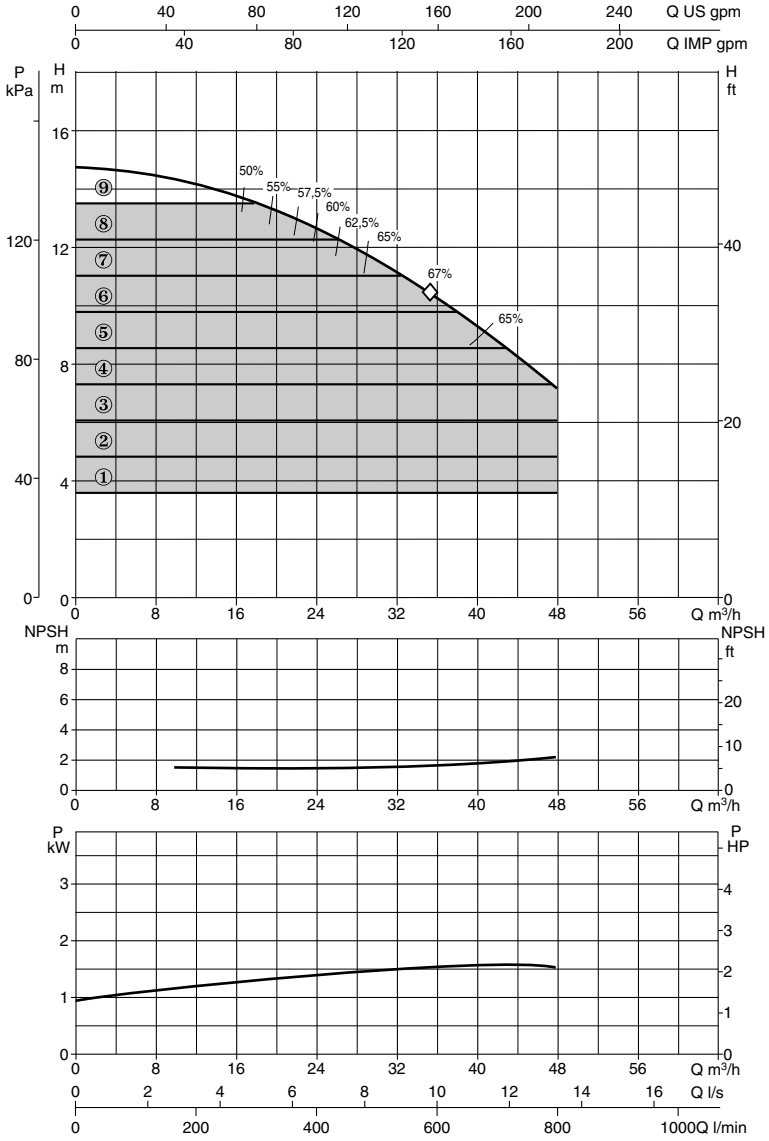
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 40-125/107 ≅ 2900 1/min





Motor construction type: B5



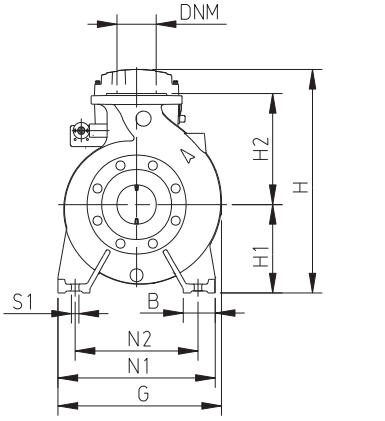
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 40-125/107/1.5 /2	65	40	80	50	-	267	235	112	140	480	226	100	70	210	160	M12	-	-	100	28	620	370	480	0,11	48

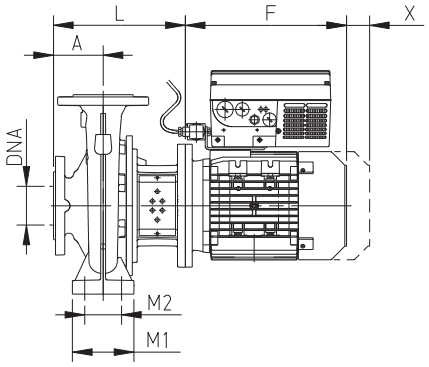
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	36	48	54	60
						l/min	0	100	200	300	400	600	800	900	1000
NKP-GE 40-125/107/1.5 /2	MEC 90 S	3x380/480 V	1.5	2	5.9-3.4	H (m)	14.7	14.5	14.3	13.8	13	10.5	7	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

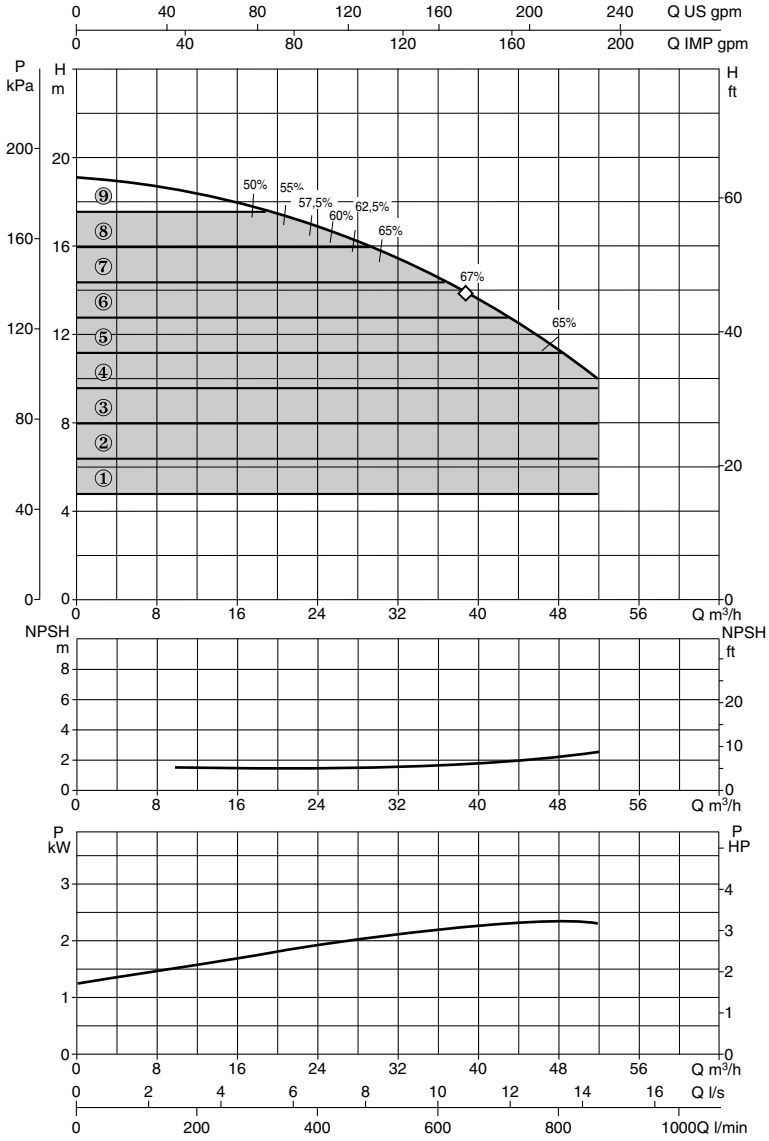
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 40-125/120 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 40-125/120/ 2.2 /2	65	40	80	50	-	267	235	112	140	480	226	100	70	210	160	M12	-	-	100	28	620	370	480	0,11	63,4

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	36	48	54	60
						Q l/min	0	100	200	300	400	600	800	900	1000
NKP-GE 40-125/120/ 2.2 /2	MEC 90 L	3x380/480 V	2.2	3	8.5-4.9	H (m)	19	18.7	18.4	17.8	17	14.6	11	–	–

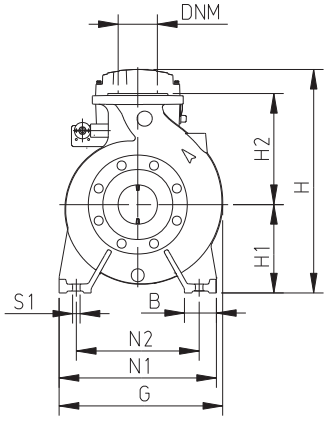
DAB PUMPS reserve the right to make modifications without prior notice

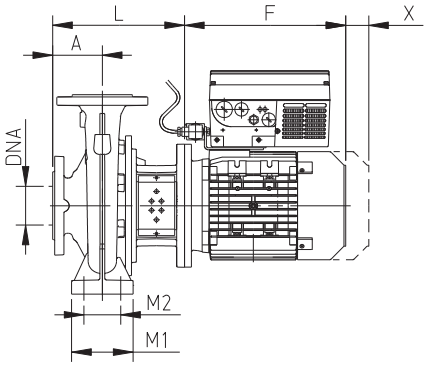
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

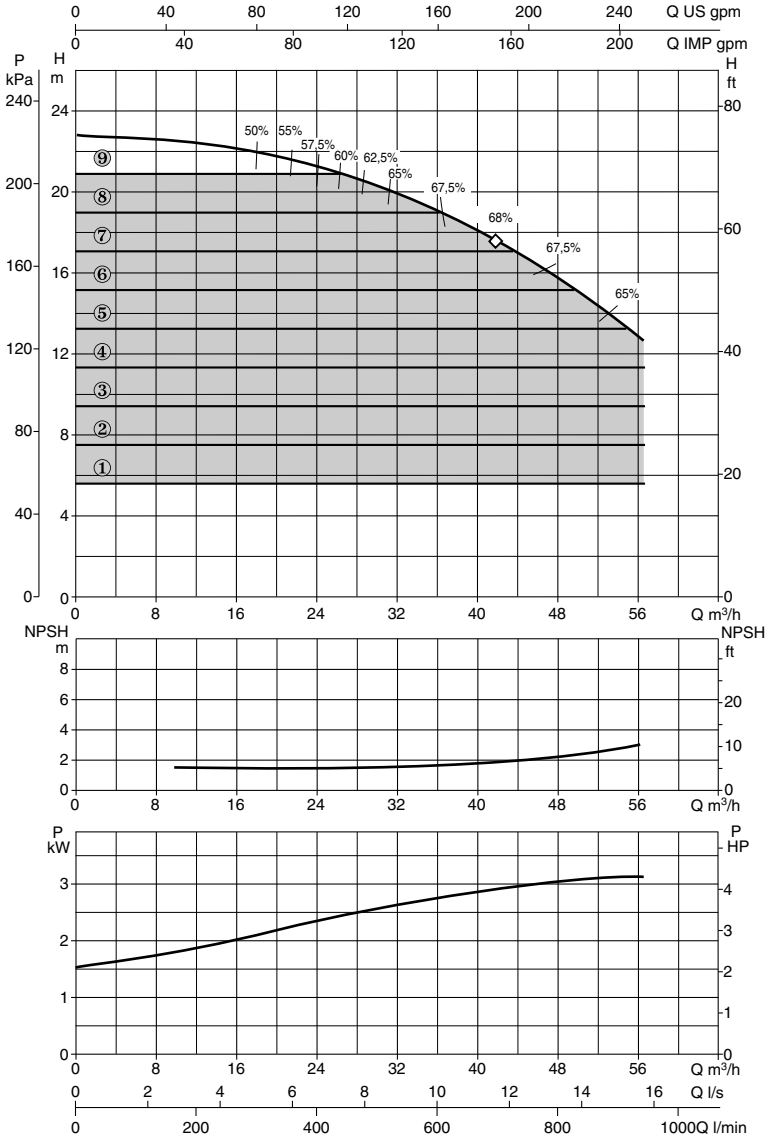
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 40-125/130 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 40-125/130/3 /2	65	40	80	50	-	305	250	112	140	540	254	100	70	210	160	M12	-	20	100	28	670	420	540	0,15	74,4

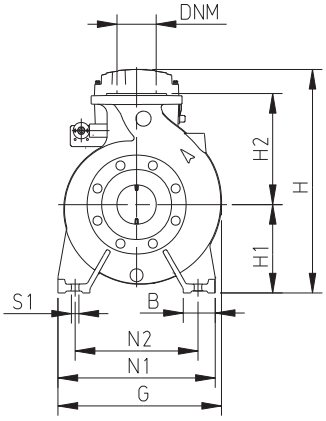
** Insert the indicated size of the shim under the feet of the pump (not supplied).

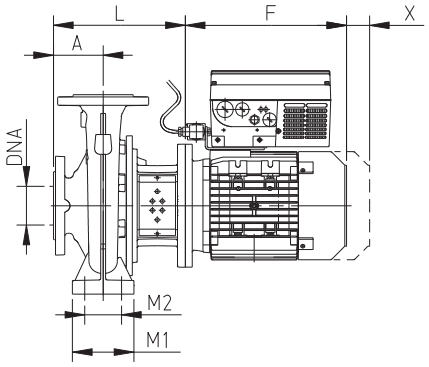
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	36	48	54	60
						l/min	0	100	200	300	400	600	800	900	1000
NKP-GE 40-125/130/3 /2	MEC 100	3x380/480 V	3	4	6.4	H (m)	22.8	22.5	22.3	22	21.2	19	15.5	13.5	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

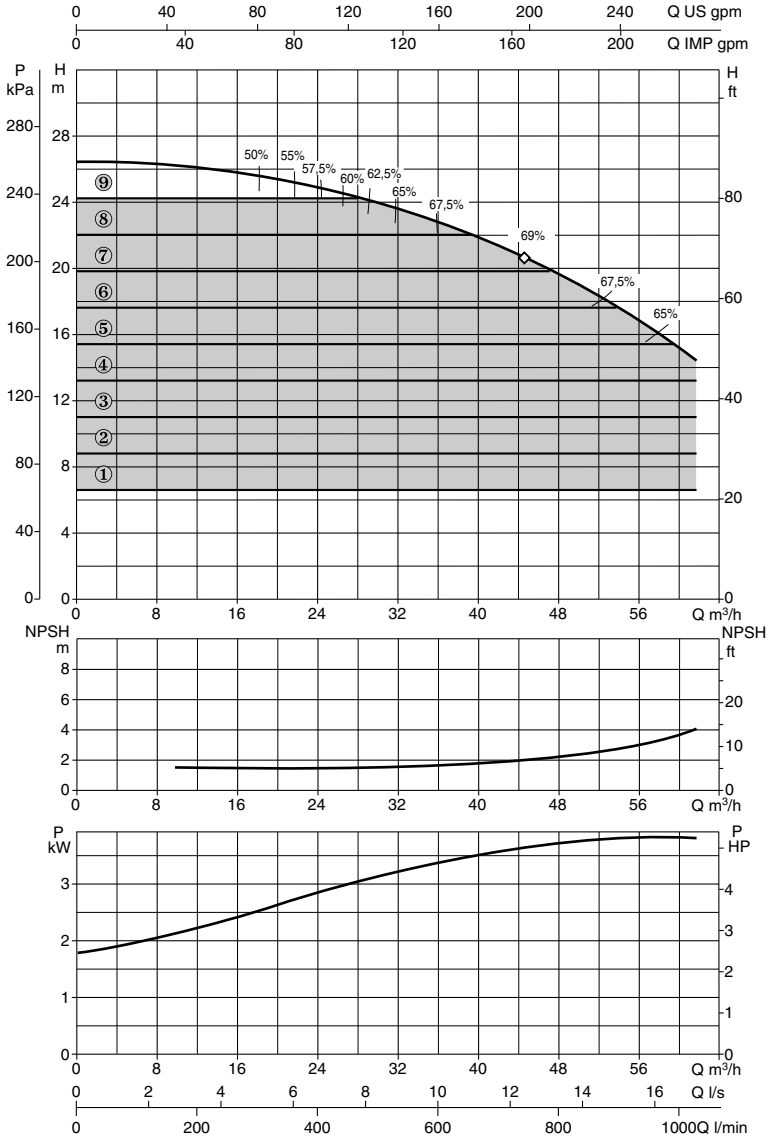
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 40-125/139 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 40-125/139/ 4 /2	65	40	80	50	-	328	250	112	140	540	254	100	70	210	160	M12	-	20	100	28	670	420	540	0,15	87,4

** Insert the indicated size of the shim under the feet of the pump (not supplied).

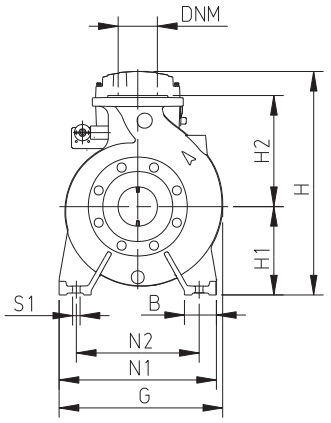
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	6	12	18	24	36	48	54	60
						Q l/min	0	100	200	300	400	600	800	900	1000
NKP-GE 40-125/139/ 4 /2	MEC 112	3x380/480 V	4	5.5	8.5	H (m)	26.4	26.2	26	25.6	25	23	19.5	17.5	15

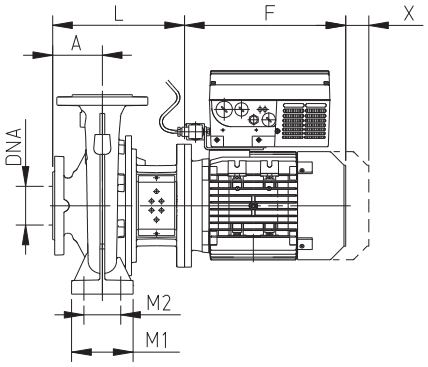
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

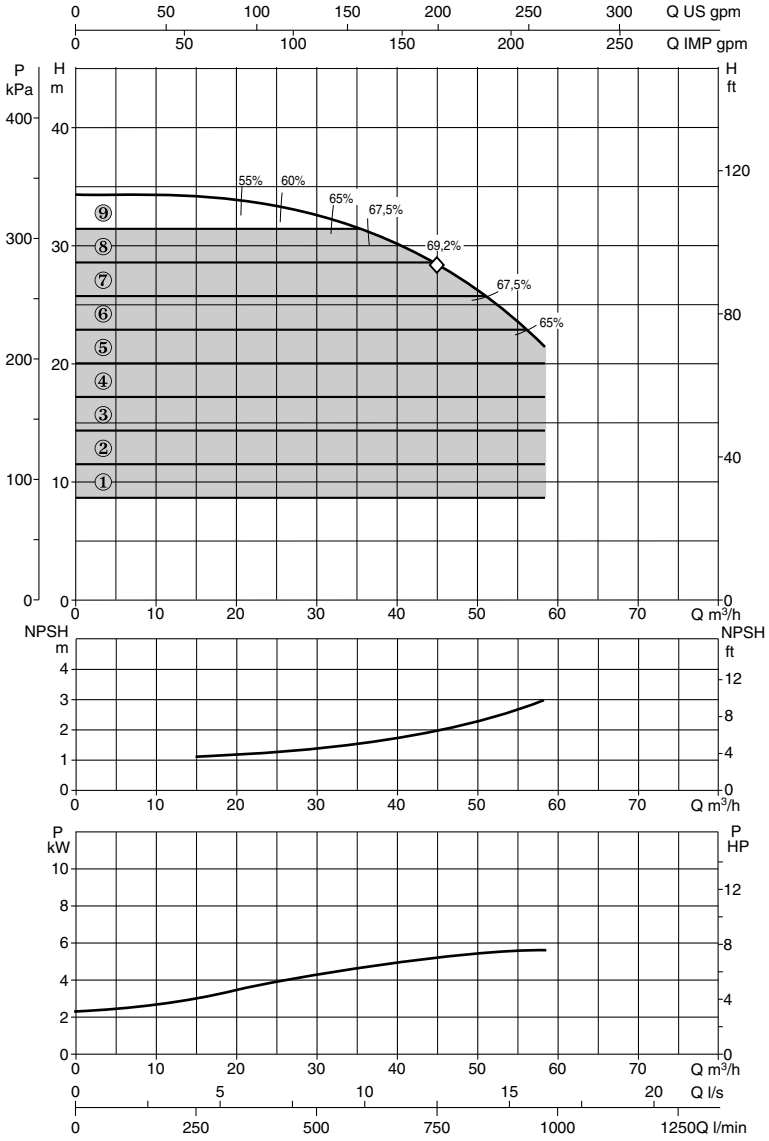
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 40-160/158 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 40-160/158/5,5 /2	65	40	80	50	-	369,5	300	132	160	520	293	100	70	240	190	M12	-	20	100	28	830	430	520	0,18	87,9

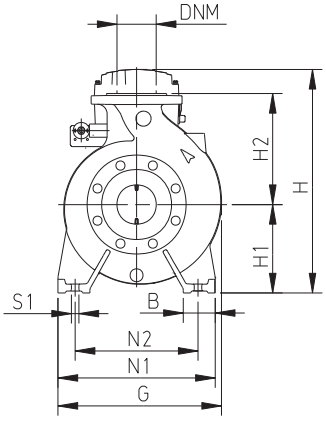
** Insert the indicated size of the shim under the feet of the pump (not supplied).

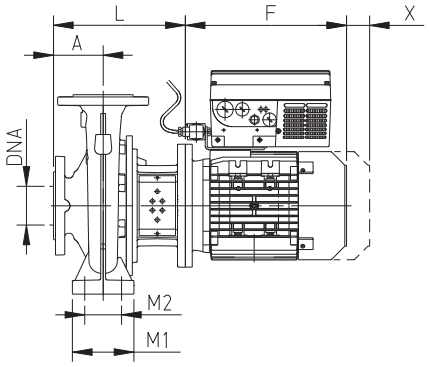
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	18	24	30	36	42	48	54	66
						l/min	0	300	400	500	600	700	800	900	1100
NKP-GE 40-160/158/5,5 /2	MEC 132 S	3x380/480 V	5.5	7.5	10.6	H (m)	34	34	33.5	32.5	31	29.5	27	24	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

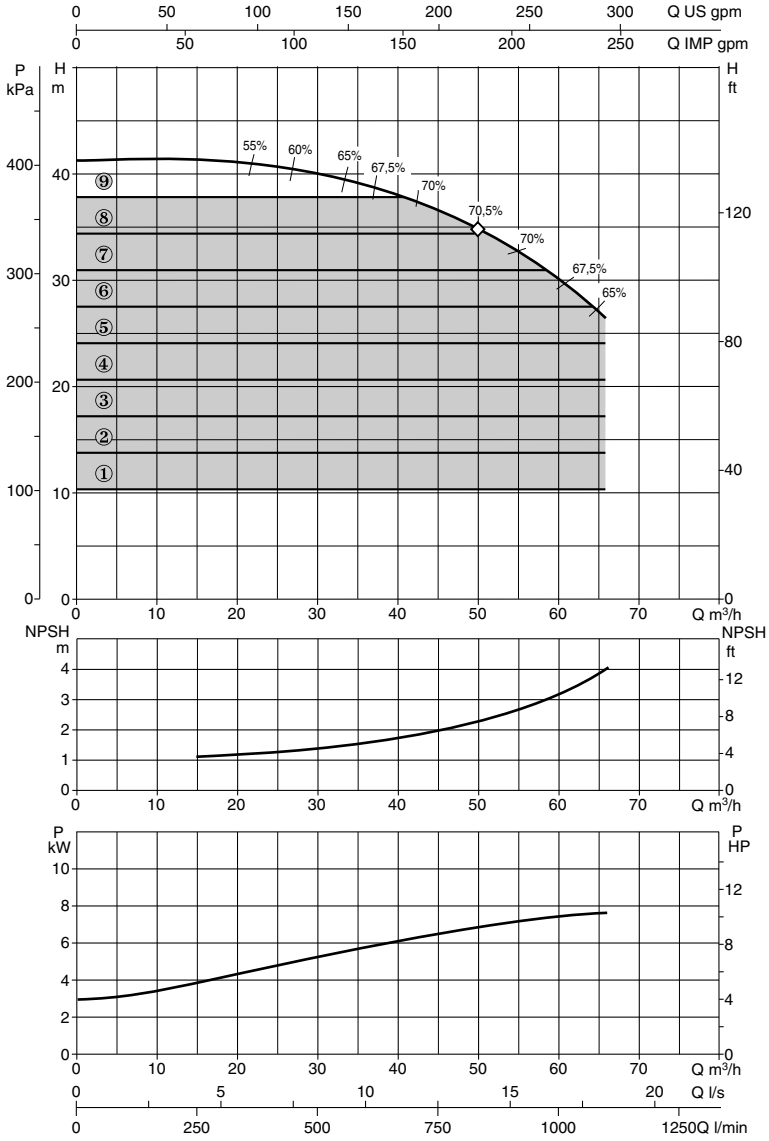
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 40-160/172 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 40-160/172/ 7,5 /2	65	40	80	50	-	369,5	300	132	160	520	293	100	70	240	190	M12	-	20	100	28	830	430	520	0,18	95,1

** Insert the indicated size of the shim under the feet of the pump (not supplied).

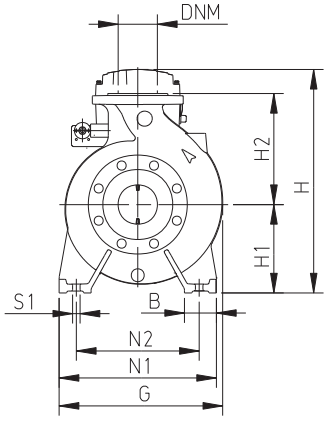
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	18	24	30	36	42	48	54	66
						l/min	0	300	400	500	600	700	800	900	1100
NKP-GE 40-160/172/ 7,5 /2	MEC 132 S	3x380/480 V	7.5	10	14.1	H (m)	41	41	41	40	39	37.5	35.5	33	26.5

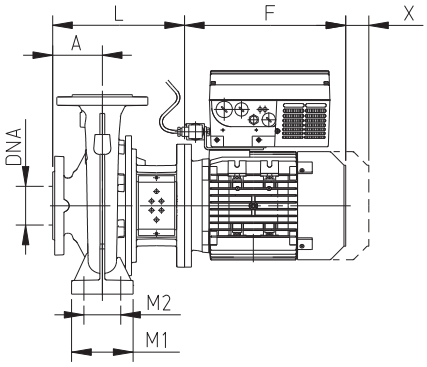
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

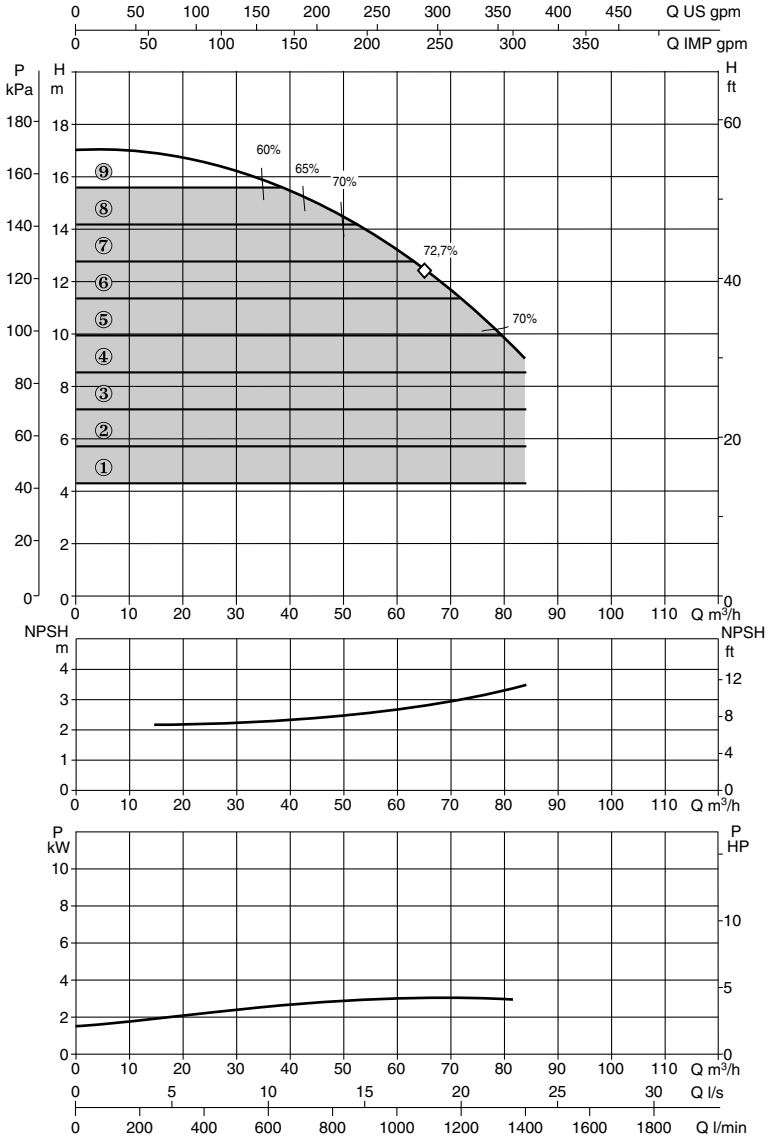
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 50-125/115 ≅ 2900 1/min





Motor construction type: B5



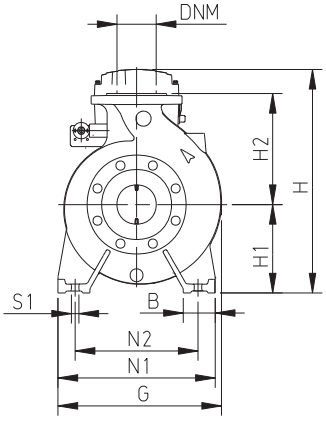
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 50-125/115/3 /2	65	50	100	50	-	305	250	132	160	540	274	100	70	240	190	M12	-	-	100	28	670	420	540	0,15	77,4

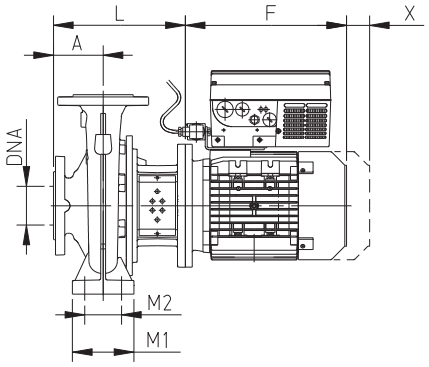
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	24	30	42	54	66	84	102	114
						l/min	0	400	500	700	900	1100	1400	1700	1900
NKP-GE 50-125/115/3 /2	MEC 100	3x380/480 V	3	4	6.4	H (m)	17	16.5	16	15	13.7	12	9	–	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

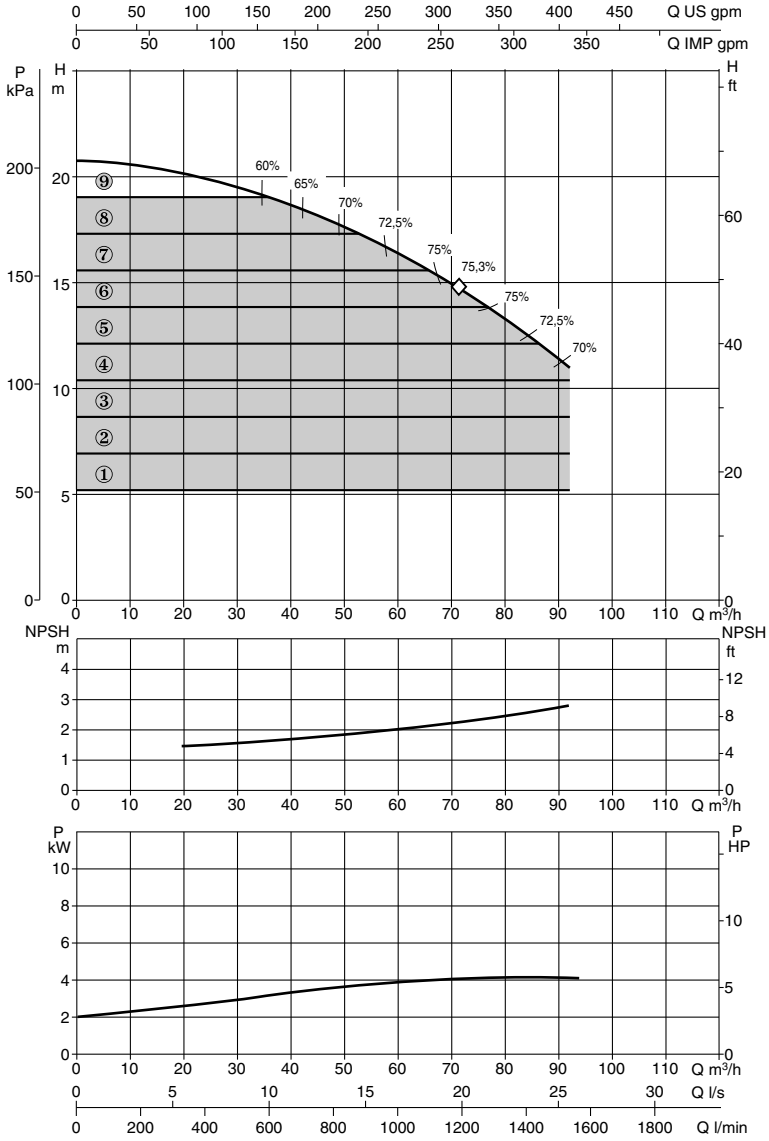
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 50-125/125 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 50-125/125/ 4 /2	65	50	100	50	-	328	250	132	160	540	274	100	70	240	190	M12	-	-	100	28	670	420	540	0,15	90,4

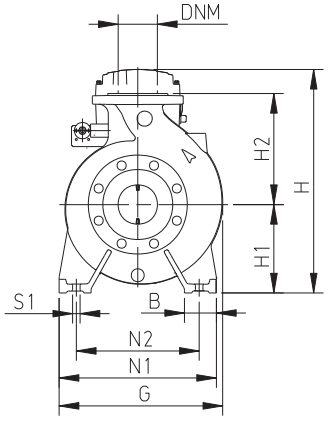
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	24	30	42	54	66	84	102	114
						l/min	0	400	500	700	900	1100	1400	1700	1900
NKP-GE 50-125/125/ 4 /2	MEC 112	3x380/480 V	4	5.5	8.5	H (m)	20.5	20	19.5	18.5	17.5	15.8	12.5	–	–

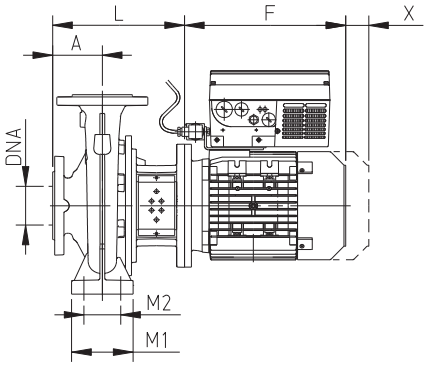
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

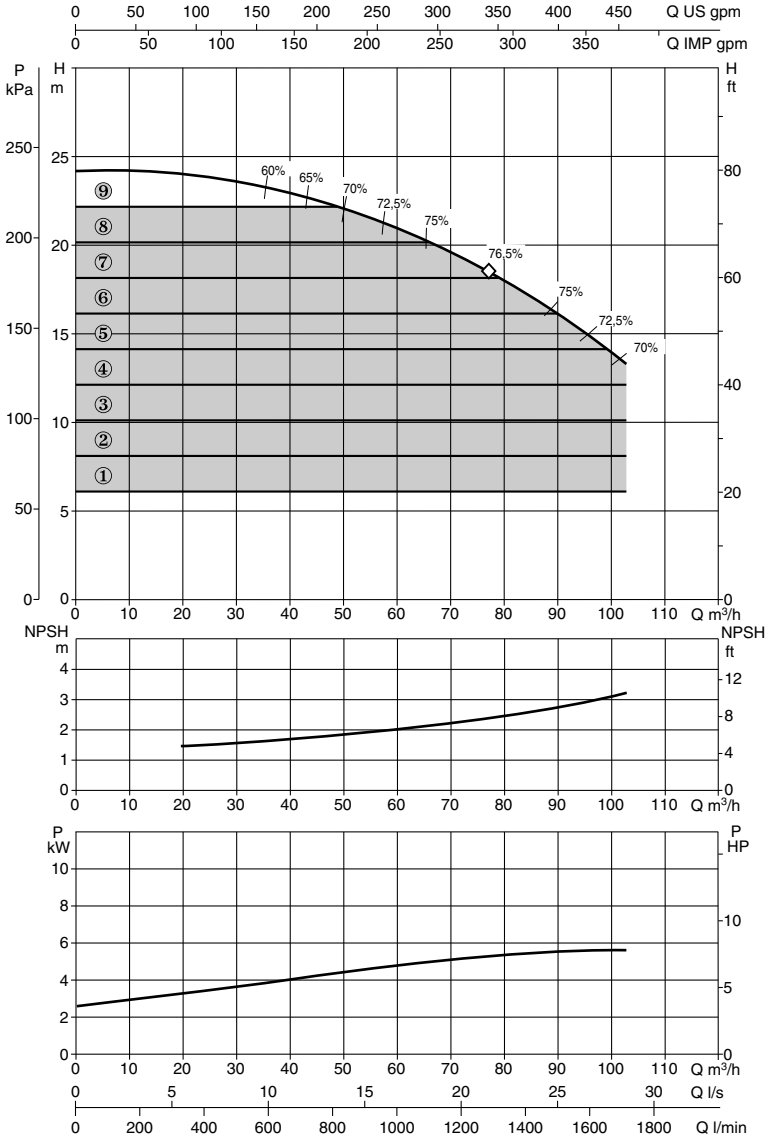
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 50-125/135 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 50-125/135/ 5,5 /2	65	50	100	50	-	369,5	300	132	160	520	313	100	70	240	190	M12	-	20	100	28	830	430	520	0,18	89,8

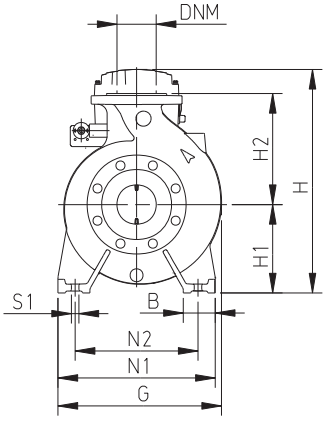
** Insert the indicated size of the shim under the feet of the motor (not supplied)

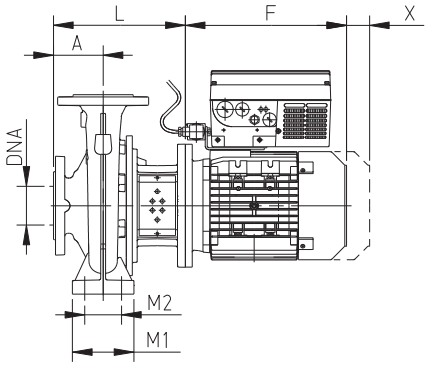
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	24	30	42	54	66	84	102	114
						l/min	0	400	500	700	900	1100	1400	1700	1900
NKP-GE 50-125/135/ 5,5 /2	MEC 132 S	3x380/480 V	5.5	7.5	10.6	H (m)	24	23.6	23.5	22.8	21.5	20	17.5	13.4	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

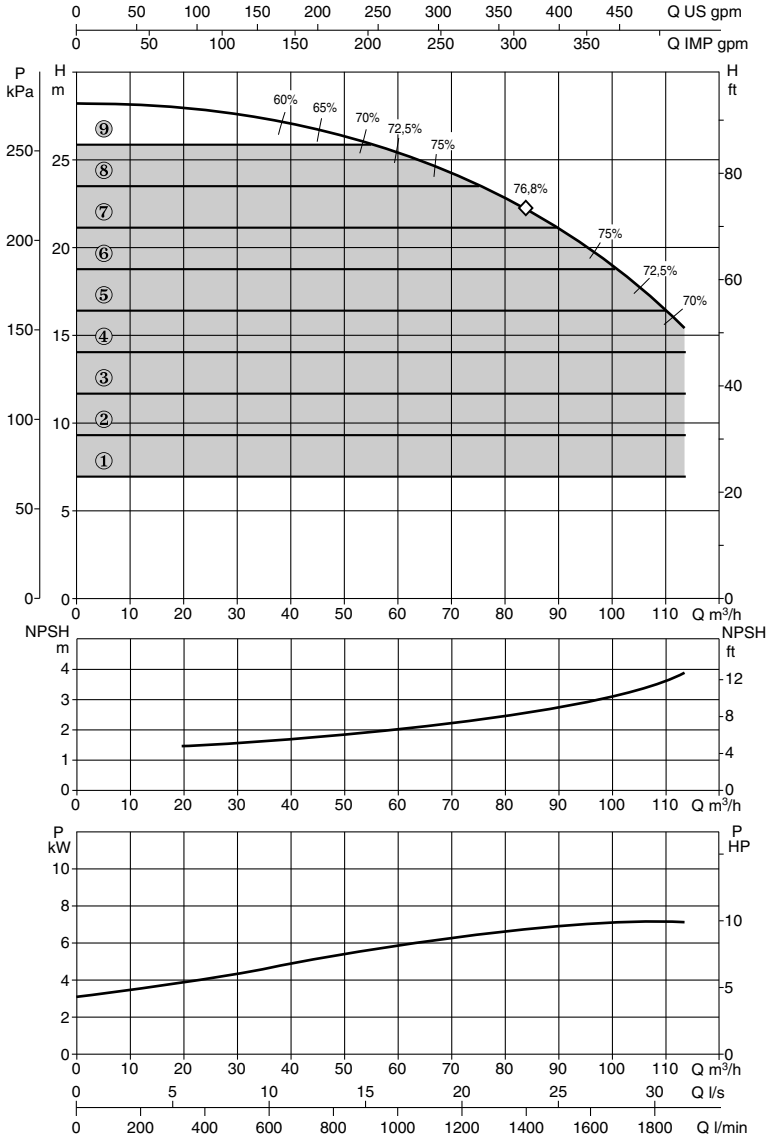
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 50-125/144 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 50-125/144/ 7,5 /2	65	50	100	50	-	369,5	300	132	160	520	313	100	70	240	190	M12	-	20	100	28	830	430	520	0,18	92,8

** Insert the indicated size of the shim under the feet of the motor (not supplied)

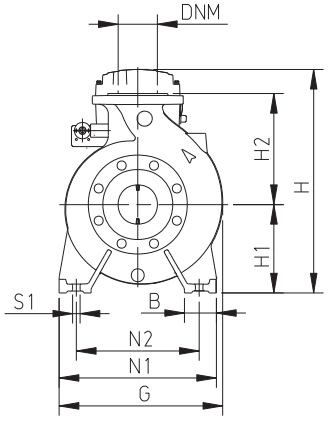
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	24	30	42	54	66	84	102	114
						l/min	0	400	500	700	900	1100	1400	1700	1900
NKP-GE 50-125/144/ 7,5 /2	MEC 132 S	3x380/480 V	7.5	10	14.1	H (m)	28	27.8	27.5	27	25.8	24.5	21.5	18	15.5

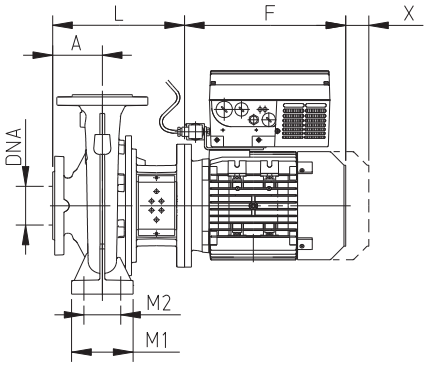
DAB PUMPS reserve the right to make modifications without prior notice

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

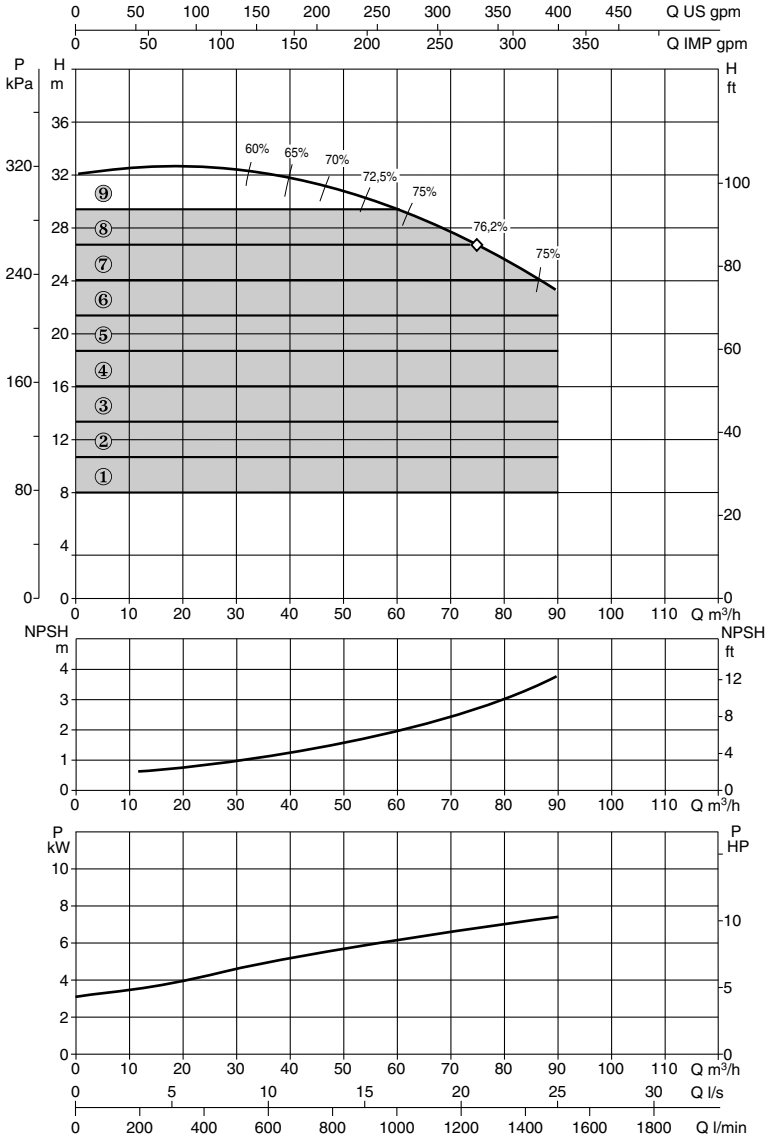
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 50-160/153 ≅ 2900 1/min





Motor construction type: B5



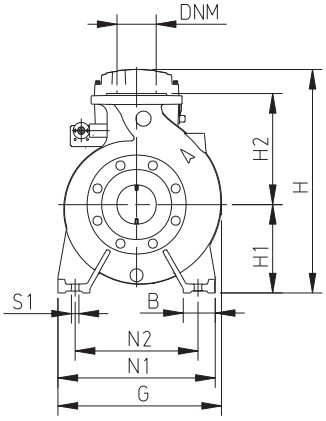
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 50-160/153/7.5 /2	65	50	100	50	-	369,5	301	160	180	640	313	100	70	240	212	M12	-	-	100	28	1030	530	640	0,35	94,6

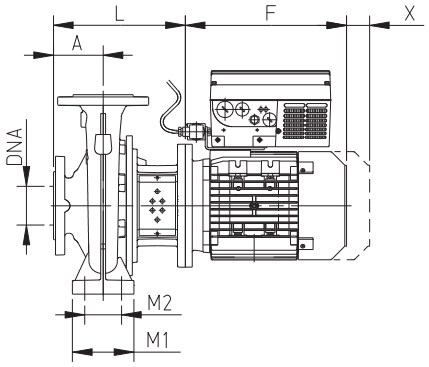
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	30	42	48	54	66	78	84	90
						l/min	0	500	700	800	900	1100	1300	1400	1500
NKP-GE 50-160/153/7.5 /2	MEC 132 S	3x380/480 V	7.5	10	14.1	H (m)	32	32.4	31.5	31	30.5	28.5	26	25	23.5

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

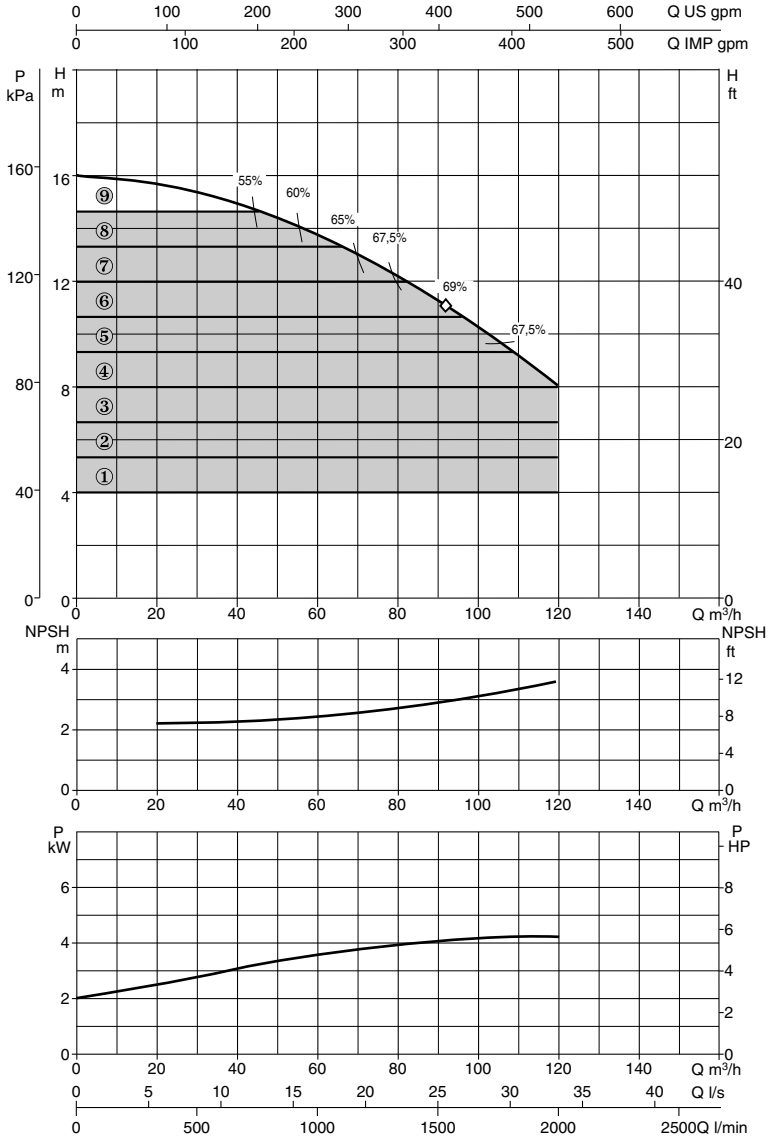
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 65-125/120-110 ≅ 2900 1/min





Motor construction type: B5



MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 65-125/120-110/4/2	80	65	100	65	-	328	286	160	180	540	274	125	95	280	212	M12	-	-	100	28	670	420	540	0,15	95,4

MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	36	60	72	78	84	102	114	150
						l/min	0	800	1000	1200	1300	1400	1700	1900	2500
NKP-GE 65-125/120-110/4/2	MEC 112	3x380/480 V	4	5.5	8.5	H (m)	16	15	13.3	12.3	12	11.4	8.5	8	–

DAB PUMPS reserve the right to make modifications without prior notice

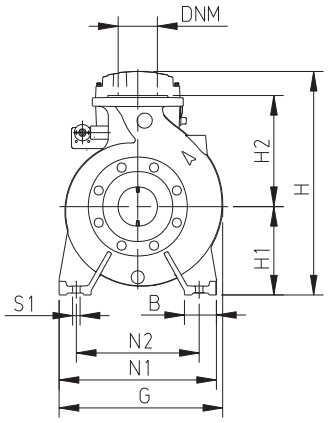
DAB PUMP PERFORMANCE

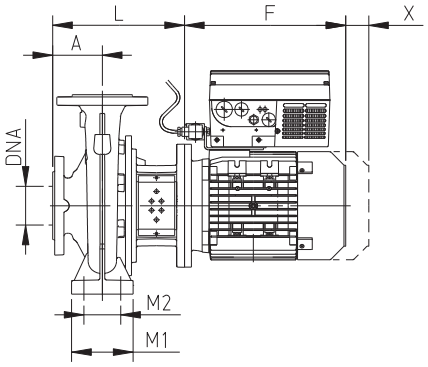
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

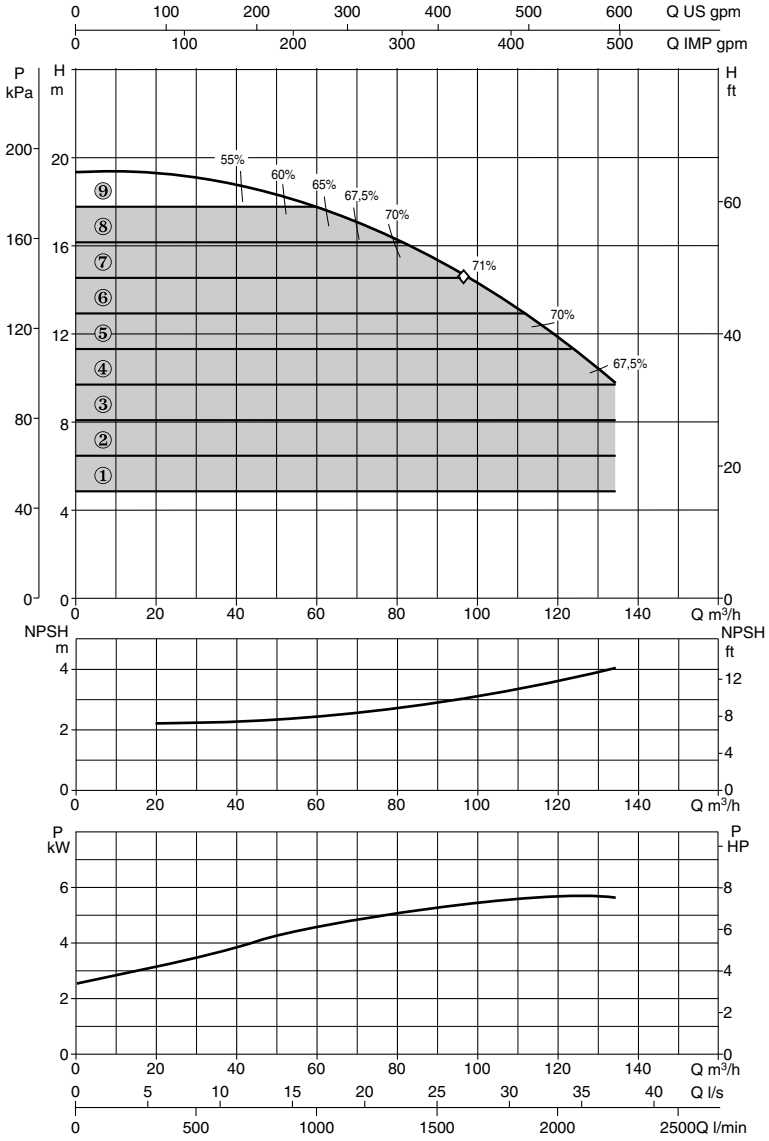
NKP-GE 65-125/127

≅ 2900 1/min





Motor construction type: B5



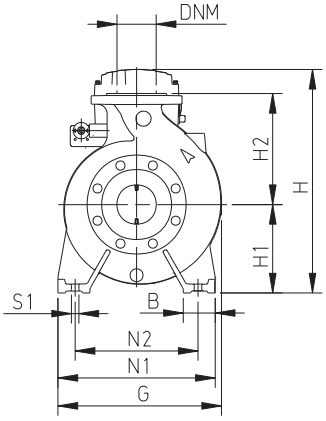
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 65-125/127/5,5 /2	80	65	100	65	-	369,5	300	160	180	520	313	125	95	280	212	M12	-	-	100	28	830	430	520	0,18	121,4

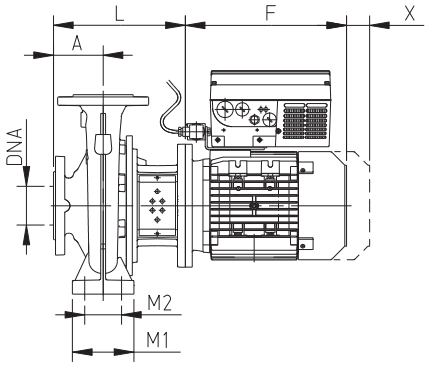
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	36	60	72	78	84	102	114	150
						l/min	0	800	1000	1200	1300	1400	1700	1900	2500
NKP-GE 65-125/127/5,5 /2	MEC 132S	3x380/480 V	5.5	7.5	10.6	H (m)	19.5	19	18.1	17.2	16.9	16.5	14.5	13	–

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

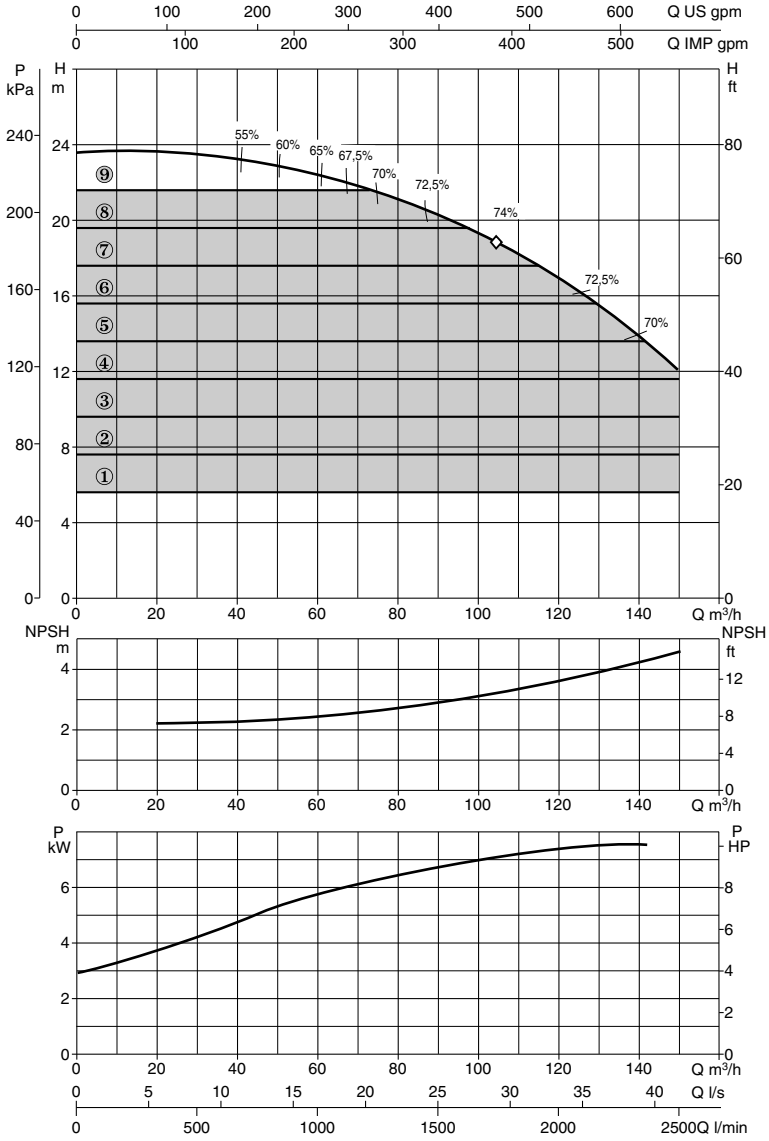
Liquid temperature range: from -10°C to +140°C
Maximum ambient temperature: +40°C

NKP-GE 65-125/137 ≅ 2900 1/min





Motor construction type: B5



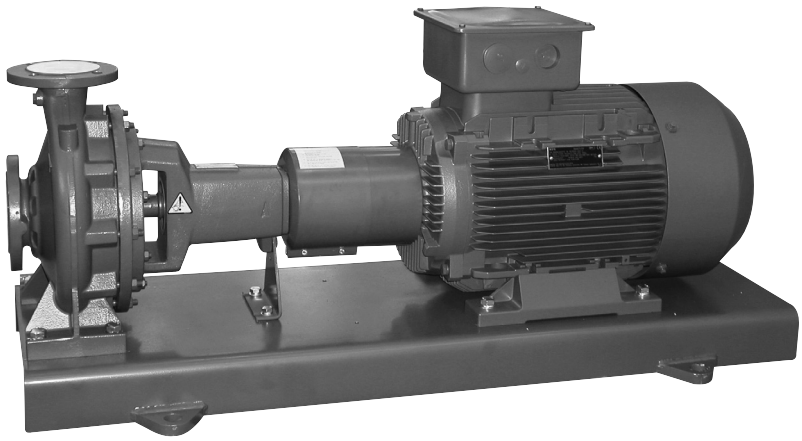
MODEL	DNA	DNM	A	B	E	F	G	H1	H2	H	L	M1	M2	N1	N2	S1	W	**	X	Ø (mm) Mech. seal	PACKING DIMENSIONS A	B	H	Vol.	Weight Kg
NKP-GE 65-125/137/7,5 /2	80	65	100	65	-	369,5	300	160	180	520	313	125	95	280	212	M12	-	-	100	28	830	430	520	0,18	97,1

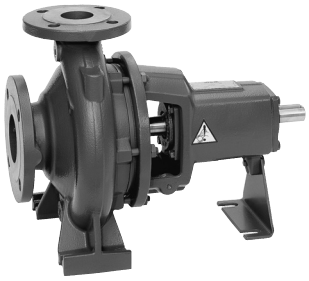
MODEL	ELECTRICAL DATA					HYDRAULIC DATA									
	MOTOR SIZE	Voltage	P2 Nominal kW	P2 Nominal HP	In A	Q m³/h	0	36	60	72	78	84	102	114	150
						l/min	0	800	1000	1200	1300	1400	1700	1900	2500
NKP-GE 65-125/137/7,5 /2	MEC 132 S	3x380/480 V	7.5	10	14.1	H (m)	23.5	23.1	22.5	21.6	21.1	20.7	19	17.5	12

DAB PUMPS reserve the right to make modifications without prior notice

KDN

STANDARDISED CENTRIFUGAL PUMPS
BARE SHAFT
ON BEDPLATE WITH MOTOR AND COUPLING





CE

GENERAL DATA

Applications

Enbloc, centrifugal motor-driven pumps with coupling designed for a wide range of applications such as:
- supplying water
- the circulation of hot water for central heating
- the circulation of cold water for air conditioning and refrigerating
- the transfer of liquids in agriculture, horticulture and in industries
- the implementation of pumping systems

These pumps can be coupled with elastic coupling (standard or spacer) to a 2 or 4 poles electric motor and mounted on a pressed sheet base complying with UNI EN 23661.

Constructional features of the pump

Single-stage, cast iron spiral body made to DIN-EN 733 (formerly DIN 24255), seal holder cover and support in cast iron, flanges made to DIN 2533 and DIN 2532 for DN 200.
Impeller in cast iron, encased and dynamically balanced with compensation of the axial thrust by means of balancing holes, operating (on request) with interchangeable wear rings.
Stainless steel pump shaft supported by two large maintenance-free greased ball bearings, greased for life and housed inside a special chamber of the support.
Standard seal: standardised mechanical seal made to DIN 24960 in carbon/carborundum with O' rings in EPDM.
Packing with lubricating idraulic ring and stuffing box in two easily removable parts, available on request.

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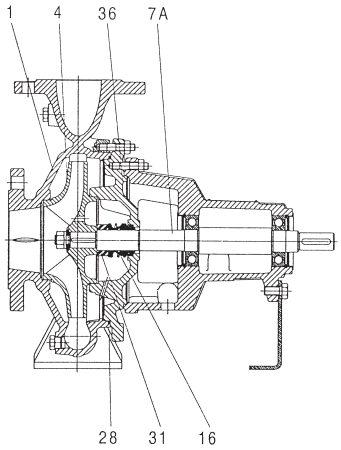
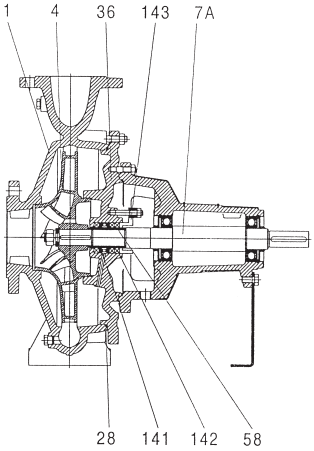
TECHNICAL DATA

STANDARD VERSION WITH MECHANICAL SEAL



VERSION ON REQUEST WITH PACKING



STANDARD VERSION WITH MECHANICAL SEAL

N.	PARTS	MATERIALS
1	PUMP BODY	CAST IRON 250 UNI ISO 185
4	IMPELLER	CAST IRON 250 UNI ISO 185
7A	PUMP SHAFT	STAINLESS STEEL AISI 420 - UNI 6900/71
28	GASKET OR	VITON
36	SEAL HOLDER DISK	CAST IRON 250 UNI ISO 185
16	MECHANICAL SEAL	CARBON/CARBORUNDUM
31	SPACER SEAL	STAINLESS STEEL AISI 304 - UNI 6900/71

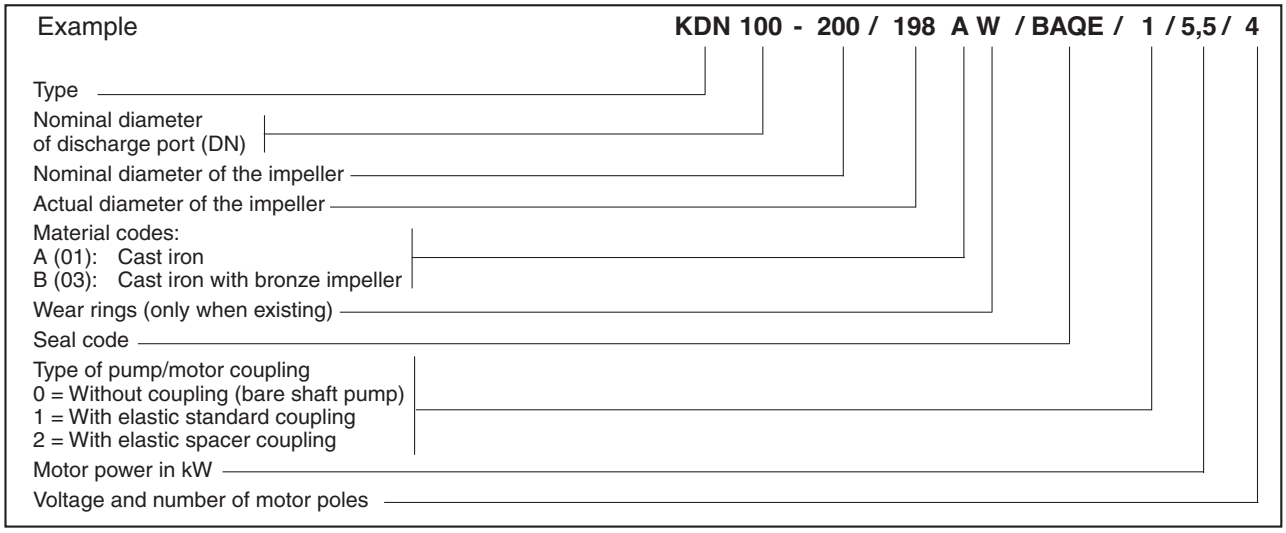
VERSION ON REQUEST WITH PACKING

N.	PARTS	MATERIALS
58	BUSH FOR SEAL	STAINLESS STEEL AISI 420 - UNI 6900/71
141	HYDRAULIC RING	STAINLESS STEEL AISI 304 - UNI 6900/71
142	PACKING	PTFE IMPREGNATED RAMIE

- Rotation speed:	1450 - 2900 1/min.
- Operating range:	from 1 to 500 m^3/h with a head of up to 100 m.
- Pumped liquid:	without solid or abrasive substances, not viscous, not aggressive, not crystallised and chemically neutral, close to water characteristics.
- Liquid temperature range:	from -10°C to +140°C.
- Maximum ambient temperature:	+40°C.
- Maximum working pressure:	16 bar - 1600 kPa (for DN 200 max 10 bar).
- Flanging:	PN 16 DIN 2533 PN 10 DIN 2532 per DN 200
- Installation:	normally horizontal.
- Special version on request:	pumps for liquids other than water. Packing (that can also be fed externally). Other voltages and/or frequencies.

Description of the product

In the description of the bare shaft pump no mention is made of the coupling or motor data.
In the description of the pumps mounted on a base without a motor, the motor's data are not mentioned.
The example given describes an NK 100-200 type pump with a cast iron 198 Ø impeller, with BAQE type mechanics, standard coupling and 4-poles 5.5 kW motor running on 380-415 V 50 Hz.



Pump material codes

Component	Version	
	A (01) cast iron	B (03) cast iron with bronze impeller
Pump body	GG25	GG25
Seal holder disk	GG25	GG25
Stuffing box	OT Cu 62 Si1	OT Cu 62 Si1
Impeller	GG25	GCuSn5Zn5Pb5 UNI 7013/8a-72
Consumable rings*	GG20	GG20
Pump shaft	AISI 420 UNI 6900/71	
Shaft sleeve**	AISI 420 UNI 6900/71	

Packing codes

Item	Code	Description of the packing
1	S	Stuffing box type
Item	Code	Cooling
2	N	Stuffing box not cooled
	K	Stuffing box cooled
Item	Code	Sealing liquid
3	E	With internal liquid
	F	With external liquid
	O	Without hydraulic ring

Description of the mechanical seal

Item	Code	Description of the seal
1	A	O ring with fixed guide
	B	Rubber bellows seal
	C	O ring with spring guide
	D	Balanced O ring
	M	Metal bellows seal
	X	Other seal types
Item	Code	Materials
2 & 3	A	Impregnated carbon/metal
	B	Impregnated carbon/resin
	C	Other carbon types
	S	Chromium steel
	U	Tungsten carbide
	Q	Carborundum
	V	Aluminium oxide (ceramic)
	X	Other ceramic types
Item	Code	Materials
4	P	Nitrile rubber (NBR)
	S	Silicone rubber
	T	Teflon (PTFE)
	E	EPDM
	V	Viton
	M	PTFE coated O ring
Item	Code	Materials
5	v	Reinforced

* on request
** only for packing or balanced mechanical seal

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Description of the product code

Impeller's nominal diameter	Code
125	1
160	2
200	3
250	4
315	5
125.1	K
160.1	L
200.1	M

Pump type	Code
KDN 32	1
KDN 40	2
KDN 50	3
KDN 65	4
KDN 80	5
KDN 100	6
KDN 125	7
KDN 150	8

Identification	Code
DAB PUMPS S.p.A.	D

	Code
DAB PUMPS S.p.A.	1

Code	Pump/impeller materials
1	A (01) = cast iron/cast iron
2	B (03) = cast iron/bronze
3	
4	
5	A (01) + Wr*
6	B (03) + Wr*
7	
8	

* With consumable rings

Code	Seal available
1	BAQE
2	BAQE-RMG12
5	BQQV*
7	BAQV*
A	SNE*
B	SNO*
C	SNF*
G	BQQE*

* On request

Code	Coupling
0	Without coupling*
1	With elastic standard coupling
2	With elastic spacer coupling

* Bare shaft pump

Code	P2 nominal kW
0	Bare shaft
1	0,37
2	0,55
3	0,75
4	1,1
5	1,5
6	2,2
7	3
8	4
9	5,5
A	7,5
B	11
C	15
D	18,5
E	22
F	30
G	37
H	45
K	55
L	75
M	90
N	110
P	132

Code	Voltage	Poles
0	Without motor	
1	3x220-240 / 380-415V 50 Hz 3x220-265 / 380-460V 60 Hz	2
2	3x380-415 50 Hz 3x380-460V 60 Hz	2
3	3x220-240 / 380-415V 50 Hz 3x220-265 / 380-460V 60 Hz	4
4	3x380-415 50 Hz 3x380-460V 60 Hz	4
5	3x380-415V 50 Hz (with inverter)	2
6	3x380-415V 50 Hz (with inverter)	4

Product code

1	D	1	1	1	1	1	1	1

← Bare shaft pump → 0 0 0

← Pump on base without motor → 0

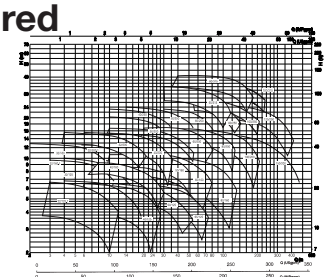
← Complete motor-driven pump with base →

GENERAL DATA

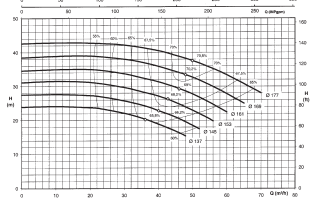
Asynchronous, closed and cooled with external ventilation, 2 or 4 poles. Rotor mounted on extra large ball bearings to guarantee low noise running and durability.
Electrical protection: in compliance with the EEC 89/336 ELECTROMAGNETIC COMPATIBILITY directive and subsequent amendments, EEC 73/23 LOW VOLTAGE directive and subsequent amendments and CEI 2-3 standards.
Construction:
Protection level: IP 55
Insulation class: F
Supply voltage: Three-phase 230-400V 50 Hz up to 2,2 kW inclusive
400V ∅50 Hz over 2,2 Kw
Special versions on request: other voltages and/or frequencies.

Instruction to find the pump and motor required

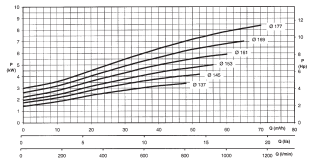
1. Find on the chart supplied the family of pumps that offer, more or less, the rates of flow and heads required.



2. Look for the most suitable characteristic on the characteristic curves of each family.



3. Find the power wanted on the power graph for the pump to work where it is wanted.



4. There are likely to be variations in the rate of flow of the liquid pumped causing an oscillation of the functioning point, in which case the power absorbed could be greater. When choosing the motor, allow the following safety margins:

UP TO REQUIRED PUMP SHAFT POWER (kW)	USE MOTOR OUTPUT P_2 (kW)
322	355
286	315
227	250
181	200
145	160
120	132
100	110
81	90
68	75
49	55
40	45
32,5	37
26	30
19	22
15,9	18,5
12,8	15
9,1	11
6,1	7,5
4,3	5,5
3,2	4
2,3	3
1,7	2,2
1,1	1,5
0,81	1,1
0,55	0,75
0,40	0,55
0,27	0,37
0,18	0,25

If necessary, adjust the power of the motor to be installed if you expect to be pumping liquids with quite high viscosity and specific weight values (verify suitability of construction materials in contact with the liquid).

5. With the name of the pump and the power of the motor, find on the following technical data the name of the most suitable base (with motor, spacer coupling and coupling cover).

6. The pump and base required will be delivered already assembled and aligned, although an alignment check is always required after installation (see INSTRUCTION MANUAL).

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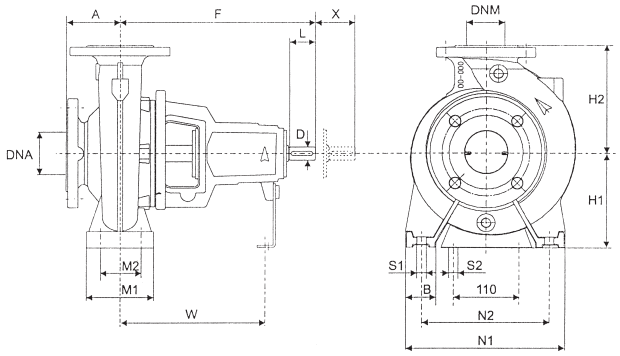
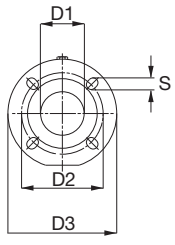
Dimensions of bare shaft pumps



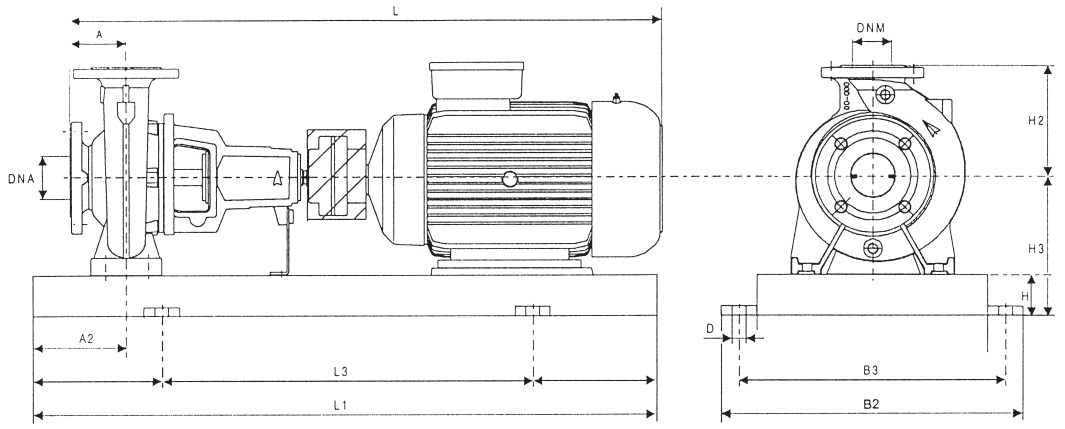
MODEL	η max 1450 min^{-1}		η max 2900 min^{-1}		Flange dimensions		Pump dimensions				Support dimensions						Holes for bolts		Shaft end		X	WEIGHT Kg
	Q m^3/h	H m	Q m^3/h	H m	DNA	DNM	A	F	H1	H2	B	M1	M2	N1	N2	W	S1	S2	D	L		
KDN 32-125.1	10.5	5.5	20,9	22	50	32	80	360	112	140	50	100	70	190	140	260	M12	M12	24	50	100	37
KDN 32-125	13.6	5.8	28	22.8																		36
KDN 32-160.1	8.7	8.3	17.5	33					132	160				240	190							38
KDN 32-160	15.9	8.6	31	34																		38
KDN 32-200.1	8.5	11.4	18	45					160	180												46
KDN 32-200	17.7	13.2	35.5	52.5																		46
KDN 40-125	21.8	5.6	46	21.5	65	40	80	360	112	140	50	100	70	210	160	260	M12	M12	24	50	100	39
KDN 40-160	25.8	9.2	50	37.2					132	160				240	190							41
KDN 40-200	29	12.6	57	51			100		160	180				265	212							49
KDN 40-250	31	19.1	62	77					180	225	65	125	95	320	250							57
KDN 50-125	41	5.4	83	21.5	65	50	100	360	132	160	50	100	70	240	190	260	M12	M12	24	50	100	42
KDN 50-160	43.3	9.3	87.5	37					160	180				265	212							44
KDN 50-200	41	14	81	56						200												51
KDN 50-250	49	19.1	100	76					180	225	65	125	95	320	250							59
KDN 65-125	57	5.2	114	21	80	65	100	360	160	180	65	125	95	280	212	260	M12	M12	24	50	100	46
KDN 65-160	61	8.6	121	34.5						200												47
KDN 65-200	62	14.8	123	59					180	225				320	250						140	66
KDN 65-250	65.4	20	129	81				470	200	250	80	160	120	360	280	340	M16		32	80		93
KDN 65-315	84	31.5	–	–			125		225	280				400	315							112
KDN 80-160	101	8.1	195	33.5	100	80	125	360	180	225	65	125	95	320	250	260	M12	M12	24	50	140	55
KDN 80-200	101	14.4	200	57.5				470		250				345	280	340			32	80		84
KDN 80-250	103	23	215	88					200	280	80	160	120	400	315		M16					104
KDN 80-315	136	35	–	–					250	315												122
KDN 100-200	163	13.4	315	53	125	100	125	470	200	280	80	160	120	360	280	340	M16	M12	32	80	140	96
KDN 100-250	159	21,8	313	87			140		225					400	315							111
KDN 100-315	187	34.1	–	–					250	315												126
KDN 125-250	289	20.5	–	–	150	125	140	470	250	355	80	160	120	400	315	340	M16	M12	32	80	140	135
KDN 150-200	378	10	–	–	200	150	160	470	280	400	100	200	150	550	450	340	M20	M12	32	80	140	178

The sizes 32-125.1, 32-160.1, 32-200.1 e 150-200 are supplementary sizes and not included in DIN-EN 733 (ex DIN 24255) standard.



	Nominal diameter (DN)								
	DIN 2533 PN 16								DIN 2532 PN 10
	32	40	50	65	80	100	125	150	200
D_1	32	40	50	65	80	100	125	150	200
D_2	100	110	125	145	160	180	210	240	295
D_3	140	150	165	185	200	220	250	285	340
S	18	18	18	18	18	18	18	22	22
n° holes	4	4	4	4	8	8	8	8	8

Dimensions and electrical data of a complete motor-driven pump



MODEL	Power (kW)		MOTOR SIZE	Supply voltage 50 Hz	I nom (A)	Flange dimens. (mm)		Unit dimensions (mm)										Standard coupling		Spacer coupling		
	4 poles	2 poles				DNA	DNM	A	A2	H2	H	H3	L1	L3	B2	B3	D	L	Weight Kg	L	Weight Kg	Ref.
KDN 32-125.1	0.37	–	MEC 71	230/400V	1,7-0,975	50	32	80	60	140	65	177	800	540	360	320	19	694	81	794	86	2
	0.55	–	MEC 80	230/400V	2,6-1,5													737	83	837	88	2
	–	0.75	MEC 80	230/400V	2,88-1,66														85		89	2
	–	1.1	MEC80	230/400V	4-2,3														86		90	2
	–	1.5	MEC 90S	230/400V	5,75-3,3													789	93	889	91	3
	–	2.2	MEC 90L	230/400V	7,9-4,55								900	600	390	350			100		98	3
	–	3	MEC 100L	400V ∅	5,9													826	102	936	105	3
	–	4	MEC 112M	400V ∅	7,8													846	102	946	107	3
KDN 32-125	0.37	–	MEC 71	230/400V	1,7-0,975	50	32	80	60	140	65	177	800	540	360	320	19	694	81	794	86	2
	0.55	–	MEC 80	230/400V	2,6-1,5													737	83	837	88	2
	0.75	–	MEC 80	230/400V	3,3-1,9														84		89	2
	–	1.1	MEC 80	230/400V	4-2,3														85		90	2
	–	1.5	MEC 90S	230/400V	5,75-3,3													789	86	889	91	2
	–	2.2	MEC 90L	230/400V	7,9-4,55								900	600	390	350			93		98	3
	–	3	MEC 100L	400V ∅	5,9													826	96,3	926	105	3
	–	4	MEC 112M	400V ∅	7,8													846	117	946	107	3
KDN 32-160.1	0.37	–	MEC 71	230/400V	1,7-0,975	50	32	80	60	160	65	197	800	540	360	320	19	694	83	794	88	2
	0.55	–	MEC 80	230/400V	2,6-1,5													737	86	837	90	2
	0.75	–	MEC 80	230/400V	3,3-1,9														86		91	2
	–	1.1	MEC 80	230/400V	4-2,3														91		96	2
	–	1.5	MEC 90S	230/400V	5,75-3,3													789	94	889	99	2
	–	2.2	MEC 90L	230/400V	7,9-4,55								900	600	390	350			102		100	3
	–	3	MEC 100L	400V ∅	5,9													826	102	926	107	3
	–	4	MEC 112M	400V ∅	7,8													846	104	946	109	3
	–	5.5	MEC 132S	400V ∅	10,2						80	212	1000	660	450	400	24	959	136	1059	141	4
KDN 32-160	0.37	–	MEC 71	230/400V	1,7-0,975	50	32	80	60	160	65	197	800	540	360	320	19	694	83	794	88	2
	0.55	–	MEC 80	230/400V	2,6-1,5													737	85	837	90	2
	0.75	–	MEC 80	230/400V	3,3-1,9														86		91	2
	1.1	–	MEC 90S	230/400V	4,35-2,5													789	88	889	93	2
	–	2.2	MEC 90L	230/400V	7,9-4,55								900	600	390	350			92		100	3
	–	3	MEC 100L	400V ∅	5,9													826	102	926	107	3
	–	4	MEC 112M	400V ∅	7,8													846	104	946	109	3
	–	5.5	MEC 132S	400V ∅	10,2						80	212	1000	660	450	400	24	959	136	1059	141	4
	–	7.5	MEC 132S	400V ∅	13,6														139		144	4

Dimensions and electrical data of a complete motor-driven pump

MODEL	Power (kW)		MOTOR SIZE	Supply voltage 50 Hz	I nom (A)	Flange dimens. (mm)		Unit dimensions (mm)										Standard coupling		Spacer coupling		
	4 poles	2 poles				DNA	DNM	A	A2	H2	H	H3	L1	L3	B2	B3	D	L	Weight Kg	L	Weight Kg	REF.
KDN 32-200.1	0.37	–	MEC 71	230/400V	1,7-0,975	50	32	80	60	180	65	225	800	540	360	320	19	694	87	794	92	2
	0.55	–	MEC 80	230/400V	2,6-1,5													737	89	837	94	2
	0.75	–	MEC 80	230/400V	3,3-1,9														101		95	2
	1.1	–	MEC 90S	230/400V	4,35-2,5													789	106	889	97	2
	–	2.2	MEC 90L	230/400V	7,9-4,55								900	600	390	350			108		106	3
	–	3	MEC 100L	400V ∅	5,9													826	140	926	111	3
	–	4	MEC 112M	400V ∅	7,8													846	143	946	113	3
	–	5.5	MEC 132S	400V ∅	10,2						80	240	1000	660	450	400	24	959	143	1059	145	4
	–	7.5	MEC 132S	400V ∅	13,6														166		148	4
KDN 32-200	0.37	–	MEC 71	230/400V	1,7-0,975	50	32	80	60	180	65	225	800	540	360	320	19	846	87	794	92	2
	0.55	–	MEC 80	230/400V	2,6-1,5													737	89	837	94	2
	0.75	–	MEC 80	230/400V	3,3-1,9														90		95	2
	1.1	–	MEC 90S	230/400V	4,35-2,5													789	101	889	97	2
	1.5	–	MEC 90L	230/400V	6-3,45								900	600	390	350			101		105	3
	2.2	–	MEC 100L	230/400V	7,95-4,6													826	102	926	109	3
	–	3	MEC 100L	400V ∅	5,9														103		126	3
	–	4	MEC 112M	400V ∅	7,8													846	104	946	134	3
	–	5.5	MEC 132S	400V ∅	10,2						80	240	1000	660	450	400	24	959	143	1059	145	4
	–	7.5	MEC 132S	400V ∅	13,6														177		148	4
	–	11	MEC 160M	400V ∅	19,6								1120	740	490	440		1069	237	1169	172	5
	–	15	MEC 160M	400V ∅	26,5														248		182	5
KDN 40-125	0.37	–	MEC 71	230/400V	1,7-0,975	65	40	80	60	140	65	177	800	540	360	320	19	694	81	794	86	2
	0.55	–	MEC 80	230/400V	2,6-1,5													737	83	837	88	2
	0.75	–	MEC 80	230/400V	3,3-1,9														84		89	2
	1.1	–	MEC 90S	230/400V	4,35-2,5													789	86	889	81	2
	–	1.5	MEC 90S	230/400V	5,75-3,3														86		97	2
	–	2.2	MEC 90L	230/400V	7,9-4,55								900	600	390	350			91		100	3
	–	3	MEC 100L	400V ∅	5,9													826	91	926	105	3
	–	4	MEC 112M	400V ∅	7,8													846	102	946	107	3
	–	5.5	MEC 132S	400V ∅	10,2						80	212	1000	660	450	400	24	959	134	1059	139	4
	–	7.5	MEC 132S	400V ∅	13,6														137		142	4
KDN 40-160	0.37	–	MEC 71	230/400V	1,7-0,975	65	40	80	60	160	65	197	800	540	360	320	19	694	85	794	87	2
	0.55	–	MEC 80	230/400V	2,6-1,5													737	89	837	90	2
	0.75	–	MEC 80	230/400V	3,3-1,9														89		91	2
	1.1	–	MEC 90S	230/400V	4,35-2,5													789	91	889	93	2
	1.5	–	MEC 90L	230/400V	6-3,45								900	600	390	350			101		101	3
	–	3	MEC 100L	400V ∅	5,9													826	102	926	106	3
	–	4	MEC 112M	400V ∅	7,8													846	104	946	109	3
	–	5.5	MEC 132S	400V ∅	10,2						80	212	1000	660	450	400	24	959	160	1059	141	4
	–	7.5	MEC 132S	400V ∅	13,6														165		144	4
	–	11	MEC 160M	400V ∅	19,6							240	1120	740	490	440		1069	173	1169	168	5
	–	15	MEC 160M	400V ∅	26,5														173		178	5
KDN 40-200	0.55	–	MEC 80	230/400V	2,6-1,5	65	40	100	60	180	65	225	900	600	390	350	19	757	98	857	103	3
	0.75	–	MEC 80	230/400V	3,3-1,9														98		106	3
	1.1	–	MEC 90S	230/400	4,35-2,5													809	101	909	109	3
	1.5	–	MEC 90L	230/400V	6-3,45														105		113	3
	2.2	–	MEC 100L	230/400V	7,95-4,6													846	111	946	116	3
	3	–	MEC 100L	400V ∅	6,7														118		120	3
	–	4	MEC 112M	400V ∅	7,8													869	135	969	140	3
	–	5.5	MEC 132S	400V ∅	10,2						80	240	1000	660	450	400	24	979	146	1079	151	4
	–	7.5	MEC 132S	400V ∅	13,6														147		152	4
	–	11	MEC 160M	400V ∅	19,6								1120	740	490	440		1089	221	1189	176	5
	–	15	MEC 160M	400V ∅	26,5														231		186	5
	–	18.5	MEC 160L	400V ∅	33													1134	231	1234	208	5

MODEL	Power (kW)		MOTOR SIZE	Supply voltage 50 Hz	I nom (A)	Flange dimens. (mm)		Unit dimensions (mm)										Standard coupling		Spacer coupling		
	4 poles	2 poles				DNA	DNM	A	A2	H2	H	H3	L1	L3	B2	B3	D	L	Weight Kg	L	Weight Kg	REF.
KDN 40-250	1.5	–	MEC 90L	230/400V	6-3,45	65	40	100	75	225	80	260	1000	660	450	400	24	809	125	909	130	4
	2.2	–	MEC 100L	230/400V	7,95-4,6													846	129	946	134	4
	3	–	MEC 100L	400V ∅	6,7														149		137	4
	4	–	MEC 112M	400V ∅	8,1													869	200	969	141	4
	–	11	MEC 160M	400V ∅	19,6								1250	840	540	490		1089	236	1189	231	6
	–	15	MEC 160M	400V ∅	26,5														278		234	6
	–	18.5	MEC 160L	400V ∅	33													1134	298	1234	236	6
	–	22	MEC 180M	400V ∅	39													1160	320	1260	256	6
	–	30	MEC 200L	400V ∅	53,5						100	300	1400	940	610	550	28	1240	320	1340	307	7
KDN 50-125	0.37	–	MEC 71	230/400V	1,7-0,975	65	50	100	60	160	65	197	800	540	360	320	19	714	87	814	92	2
	0.55	–	MEC 80	230/400V	2,6-1,5													757	90	857	95	2
	0.75	–	MEC 80	230/400V	3,3-1,9														91		96	2
	1.1	–	MEC 90S	230/400V	4,35-2,5													809	93	909	98	2
	1.5	–	MEC 90L	230/400V	6-3,45								900	600	390	350			101		106	3
	–	3	MEC 100L	400V ∅	5,9													846	105	946	135	3
	–	4	MEC 112M	400V ∅	7,8													869	109	969	143	3
	–	5.5	MEC 132S	400V ∅	10,2						80	212	1000	660	450	400	24	979	143	1079	146	4
	–	7.5	MEC 132S	400V ∅	13,6														143		149	4
	–	11	MEC 160M	400V ∅	19,6							240	1120	740	490			1089	143	1189	173	5
KDN 50-160	0.55	–	MEC 80	230/400V	2,6-1,5	65	50	100	60	180	65	225	900	600	390	350	19	757	97	857	102	3
	0.75	–	MEC 80	230/400V	3,3-1,9														98		103	3
	1.1	–	MEC 90S	230/400V	4,35-2,5													809	100	909	105	3
	1.5	–	MEC 90L	230/400V	6-3,45														103		108	3
	2.2	–	MEC 100L	230/400V	7,95-4,6													846	107	946	112	3
	3	–	MEC 100L	400V ∅	6,7														110		115	3
	–	4	MEC 112M	400V ∅	7,8													869	132	969	137	3
	–	5.5	MEC 132S	400V ∅	10,2						80	240	1000	660	450	400	24	979	143	1079	150	4
	–	7.5	MEC 132S	400V ∅	13,6														177		151	4
	–	11	MEC 160M	400V ∅	19,6								1120	740	490	440		1089	188	1189	175	5
	–	15	MEC 160M	400V ∅	26,5														200		185	5
	–	18.5	MEC 160L	400V ∅	33													1134	202	1234	207	5
KDN 50-200	0.75	–	MEC 80	230/400V	3,3-1,9	65	50	100	60	200	65	225	900	600	390	350	19	757	104	857	109	3
	1.1	–	MEC 90S	230/400V	4,35-2,5													809	107	909	112	3
	1.5	–	MEC 90L	230/400V	6-3,45														114		114	3
	2.2	–	MEC 100L	230/400V	7,95-4,6													846	123	946	118	3
	3	–	MEC 100L	400V ∅	6,7														122		121	3
	4	–	MEC 112M	400V ∅	8,1													869	122	969	125	3
	–	7.5	MEC 132S	400V ∅	13,6						80	240	1000	660	450	400	24	979	176	1079	169	4
	–	11	MEC 160M	400V ∅	19,6								1120	740	490	440		1089	186	1189	181	5
	–	15	MEC 160M	400V ∅	26,5														280		191	5
	–	18.5	MEC 160L	400V ∅	33													1134	283	1234	213	5
	–	22	MEC 180M	400V ∅	39							260						1164	290	1264	233	5
	–	30	MEC 200L	400V ∅	53,5							280	1250	840	540	490		1244	290	1344	288	6
KDN 50-250	2.2	–	MEC 100L	230/400V	7,95-4,6	65	50	100	75	225	80	260	1000	660	450	400	24	846	135	946	139	4
	3	–	MEC 100L	400V ∅	6,7														138		145	4
	4	–	MEC 112M	400V ∅	8,1													869	165	969	170	4
	5,5	–	MEC 132S	400V ∅	10,6								1120	740	490	440		979	173	1079	178	5
	–	15	MEC 160M	400V ∅	26,5								1250	840	540	490		1089	260	1189	265	6
	–	18.5	MEC 160L	400V ∅	33													1134	289	1234	275	6
	–	22	MEC 180M	400V ∅	39													1164	319	1264	304	6
	–	30	MEC 200L	400V ∅	53,5						100	300	1400	940	610	550	28	1244	407	1344	311	7
	–	37	MEC 200L	400V ∅	64,5														333		331	7
	–	45	MEC 225M	400V ∅	78							325						1299	374	1399	379	7

Dimensions and electrical data of a complete motor-driven pump

MODEL	Power (kW)		MOTOR SIZE	Supply voltage 50 Hz	I nom (A)	Flange dimens. (mm)		Unit dimensions (mm)										Standard coupling		Spacer coupling		
	4 poles	2 poles				DNA	DNM	A	A2	H2	H	H3	L1	L3	B2	B3	D	L	Weight Kg	L	Weight Kg	REF.
KDN 65-125	0.37	–	MEC 71	230/400V	1,7-0,975	80	65	100	60	180	65	225	900	600	390	350	19	714	94	814	99	3
	0.55	–	MEC 80	230/400V	2,6-1,5													757	97	857	102	3
	0.75	–	MEC 80	230/400V	3,3-1,9														98		103	3
	1.1	–	MEC 90S	230/400V	4,35-2,5													809	100	909	105	3
	1.5	–	MEC 90L	230/400V	6-3,45														103		108	3
	2.2	–	MEC 100L	230/400V	7,95-4,6													846	107	946	112	3
	–	4	MEC 112M	400V Δ	7,8													869	132	969	137	3
	–	5.5	MEC 132S	400V Δ	10,2						80	240	1000	660	450	400	24	979	143	1079	148	4
	–	7.5	MEC 132S	400V Δ	13,6														146		151	4
	–	11	MEC 160M	400V Δ	19,6								1120	740	490	440		1089	175	1189	175	5
	–	15	MEC 160M	400V Δ	26,5														180		185	5
KDN 65-160	0.75	–	MEC 80	230/400V	3,3-1,9	80	65	100	60	200	65	225	900	600	390	350	19	757	101	857	106	3
	1.1	–	MEC 90S	230/400V	4,35-2,5													809	103	909	108	3
	1.5	–	MEC 90L	230/400V	6-3,45														114		111	3
	2.2	–	MEC 100L	230/400V	7,95-4,6													846	114	946	115	3
	3	–	MEC 100L	400V Δ	6,7														148		118	3
	–	5.5	MEC 132S	400V Δ	10,2						80	240	1000	660	450	400	24	979	149	1079	153	4
	–	7.5	MEC 132S	400V Δ	13,6														173		154	4
	–	11	MEC 160M	400V Δ	19,6								1120	740	490	440		1089	183	1189	178	5
	–	15	MEC 160M	400V Δ	26,5														220		188	5
	–	18.5	MEC 160L	400V Δ	33													1134	220	1234	210	5
	–	22	MEC 180M	400V Δ	39							260						1164	220	1264	230	5
KDN 65-200	1.1	–	MEC 90S	230/400V	4,35-2,5	80	65	100	75	225	80	260	1000	660	450	400	24	809	141	909	146	4
	1.5	–	MEC 90L	230/400V	6-3,45														143		148	4
	2.2	–	MEC 100L	230/400V	7,95-4,6								1120	740	490	440		846	147	946	152	5
	3	–	MEC 100L	400V Δ	6,7														150		155	5
	4	–	MEC 112M	400V Δ	8,1													869	150	969	159	5
	5,5	–	MEC 132S	400V Δ	10,6													979	200	1079	176	5
	–	11	MEC 160M	400V Δ	19,6								1250	840	540	490		1089	267	1189	241	6
	–	15	MEC 160M	400V Δ	26,5														279		252	6
	–	18.5	MEC 160L	400V Δ	33													1134	289	1234	262	6
	–	22	MEC 180M	400V Δ	39													1164	332	1264	266	6
	–	30	MEC 200L	400V Δ	53,5						100	300	1400	940	610	550	28	1244	406	1344	317	7
	–	37	MEC 200L	400V Δ	64,5														406		337	7
KDN 65-250	3	–	MEC 100L	400V Δ	6,7	80	65	100	90	250	80	280	1120	740	490	440	24	956	178	1096	183	5
	4	–	MEC 112M	400V Δ	8,1													979	185	1119	186	5
	5,5	–	MEC 132S	400V Δ	10,6													1089	201	1229	203	5
	7.5	–	MEC 132M	400V Δ	14,4														257		211	5
	11	–	MEC 160M	400V Δ	20,8								1250	840	540	490		1199	257	1339	253	6
	–	22	MEC 180M	400V Δ	39													1274	319	1414	337	6
	–	30	MEC 200L	400V Δ	53,5						100	300	1400	940	610	550	28	1354	460	1494	422	7
	–	37	MEC 200L	400V Δ	64,5														477		442	7
	–	45	MEC 225M	400V Δ	78							325						1409	550	1549	517	7
	–	55	MEC 250M	400V Δ	94,5							350	1600	1060	660	600		1519	672	1659	612	8
KDN 65-315	5,5	–	MEC 132S	400V Δ	10,6	80	65	125	90	280	80	305	1250	840	540	490	24	1114	259	1254	244	6
	7.5	–	MEC 132M	400V Δ	14,4														292		249	6
	11	–	MEC 160M	400V Δ	20,8													1224	297	1364	268	6
	15	–	MEC 160L	400V Δ	27						100	325	1400	940	610	550	28	1269	297	1409	306	7
	18.5	–	MEC 180M	400V Δ	33													1299	322	1439	327	7
	–	45	MEC 225M	400V Δ	78								1600	1060	660	600	28	1434	695	1574	582	8
	–	55	MEC 250M	400V Δ	94,5													1544	695	1684	677	8
	–	75	MEC 280S	400V Δ	128								1800	1200	730	670	28	1569	849	1709	827	9
	–	90	MEC 280M	400V Δ	160													1619	669	1759	887	9
	–	110	MEC 315S	400V Δ	188								2000	1340	910	830	28	1944	1119	2084	1007	9

Dimensions and electrical data of a complete motor-driven pump

MODEL	Power (kW)		MOTOR SIZE	Supply voltage 50 Hz	I nom (A)	Flange dimens. (mm)		Unit dimensions (mm)										Standard coupling		Spacer coupling		
	4 poles	2 poles				DNA	DNM	A	A2	H2	H	H3	L1	L3	B2	B3	D	L	Weight Kg	L	Weight Kg	REF.
KDN 80-160	1.1	–	MEC 90S	230/400V	4,35-2,5	100	80	125	75	225	80	260	1000	660	450	400	24	834	125	974	130	4
	1.5	–	MEC 90L	230/400V	6-3,45														127		132	4
	2.2	–	MEC 100L	230/400V	7,95-4,6													871	139	1011	136	4
	3	–	MEC 100L	400V Δ	6,7														138		139	4
	4	–	MEC 112M	400V Δ	8,1													894	138	1134	143	4
	5,5	–	MEC 132S	400V Δ	10,6								1120	740	490	440		1004	163	1144	168	5
	–	7.5	MEC 132S	400V Δ	13,6														189		194	5
	–	11	MEC 160M	400V Δ	19,6								1250	840	540	490		1114	298	1254	236	6
	–	15	MEC 160M	400V Δ	26,5														298		237	6
	–	18.5	MEC 160L	400V Δ	33													1159	298	1299	238	6
	–	22	MEC 180M	400V Δ	39													1189	253	1329	258	6
	–	30	MEC 200L	400V Δ	53,5						100	300	1400	940	610	550	28	1269	304	1409	309	7
	–	37	MEC 200L	400V Δ	64,5														383		388	7
KDN 80-200	1.5	–	MEC 90L	230/400V	6-3,45	100	80	125	75	250	80	260	1120	740	490	440	24	944	161	1084	166	5
	2.2	–	MEC 100L	230/400V	7,95-4,6													981	166	1121	171	5
	3	–	MEC 100L	400V Δ	6,7														168		173	5
	4	–	MEC 112M	400V Δ	8,1													1004	188	1144	177	5
	5,5	–	MEC 132S	400V Δ	10,6													1114	188	1254	194	5
	7.5	–	MEC 132M	400V Δ	14,4														188		202	5
	11	–	MEC 160M	400V Δ	20,8								1250	840	540	490		1224	197	1364	244	6
	–	18.5	MEC 160L	400V Δ	33													1269	239	1409	299	6
	–	22	MEC 180M	400V Δ	39													1299	275	1439	328	6
	–	30	MEC 200L	400V Δ	53,5						100	300	1400	940	610	550	28	1379	432	1519	335	7
	–	37	MEC 200L	400V Δ	64,5														455		355	7
	–	45	MEC 225M	400V Δ	78							325						1434	548	1574	403	7
	–	55	MEC 250M	400V Δ	94,5							350	1600	1060	660	600		1544	494	1684	499	8
	–	75	MEC 280S	400V Δ	128							380	1800	1200	730	670		1569	609	1709	614	9
KDN 80-250	4	–	MEC 112M	400V Δ	8,1	100	80	125	90	280	80	280	1250	840	540	490	24	1004	219	1144	223	6
	5.5	–	MEC 132S	400V Δ	10,6													1114	219	1254	239	6
	7.5	–	MEC 132M	400V Δ	14,4														219		244	6
	11	–	MEC 160M	400V Δ	20,8													1224	258	1364	263	6
	15	–	MEC 160L	400V Δ	27													1269	277	1409	282	6
	–	37	MEC 200L	400V Δ	64,5						100	300	1400	940	610	550	28	1379	471	1519	478	7
	–	45	MEC 225M	400V Δ	78													1434	545	1574	553	7
	–	55	MEC 250M	400V Δ	94,5								1600	1060	660	600		1544	650	1684	648	8
	–	75	MEC 280S	400V Δ	128								1800	1200	730	670		1569	641	1709	798	9
	–	90	MEC 280M	400V Δ	160													1619	909	1759	858	9
KDN 80-315	7.5	–	MEC 132M	400V Δ	14,4	100	80	125	90	315	80	330	1250	840	540	490	24	1114	390	1254	284	6
	11	–	MEC 160M	400V Δ	20,8													1224	390	1364	315	6
	15	–	MEC 160L	400V Δ	27						100	350	1400	940	610	550	28	1269	390	1409	318	7
	18.5	–	MEC 180M	400V Δ	33													1299	409	1439	344	7
	22	–	MEC 180L	400V Δ	39													1339	348	1479	353	7
	30	–	MEC 200L	400V Δ	52,5													1379	384	1519	389	7
	–	55	MEC 250M	400V Δ	94,5								1600	1060	660	600		1544	707	1684	689	8
	–	75	MEC 280S	400V Δ	128								1800	1200	730	670		1569	861	1709	839	9
	–	90	MEC 280M	400V Δ	160													1619	681	1759	899	9
	–	110	MEC 315S	400V Δ	188						120	370	2000	1340	910	830		1944	1131	2084	1019	9

DAB PUMP PERFORMANCE

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Dimensions and electrical data of a complete motor-driven pump

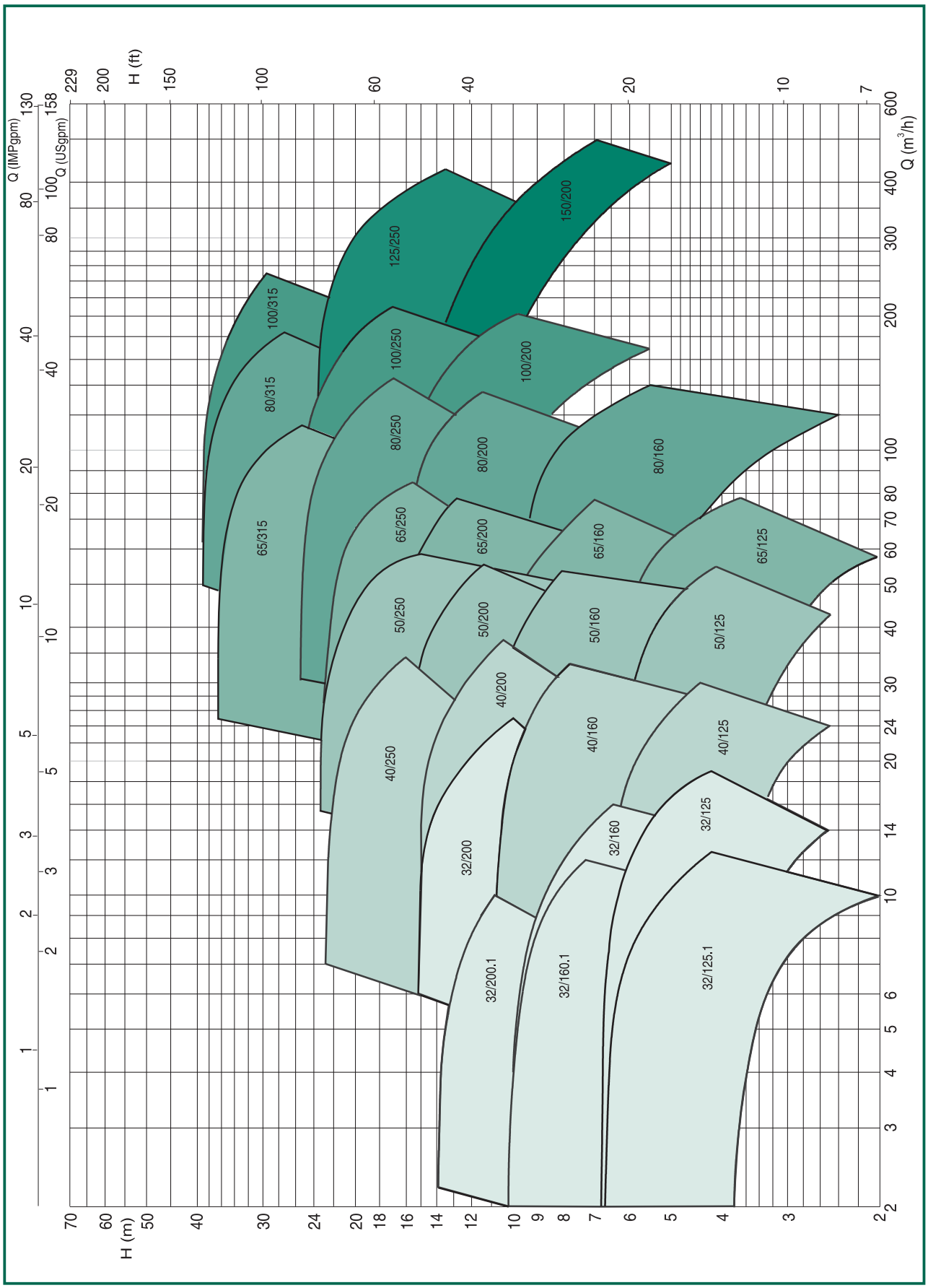
MODEL	Power (kW)		MOTOR SIZE	Supply voltage 50 Hz	I nom (A)	Flange dimens. (mm)		Unit dimensions (mm)										Standard coupling		Spacer coupling		
	4 poles	2 poles				DNA	DNM	A	A2	H2	H	H3	L1	L3	B2	B3	D	L	Weight Kg	L	Weight Kg	REF.
KDN 100-200	3	–	MEC 100L	400V ∅	6,7	125	100	125	90	280	80	280	1120	740	490	440	24	981	181	1121	186	5
	4	–	MEC 112M	400V ∅	8,1													1004	188	1144	193	5
	5,5	–	MEC 132S	400V ∅	10,6													1114	214	1254	206	5
	7.5	–	MEC 132M	400V ∅	14,4														209		214	5
	11	–	MEC 160M	400V ∅	20,8								1250	840	540	490		1224	307	1364	256	6
	15	–	MEC 160L	400V ∅	27													1269	380	1409	275	6
	–	30	MEC 200L	400V ∅	53,5						100	300	1400	940	610	550	28	1379	454	1519	425	7
	–	37	MEC 200L	400V ∅	64,5														402		445	7
	–	45	MEC 225M	400V ∅	78							325						1434	549	1574	520	7
	–	55	MEC 250M	400V ∅	94,5							350	1600	1060	660	600		1544	623	1684	615	8
	–	75	MEC 280S	400V ∅	128							380	1800	1200	730	670		1569	621	1709	765	9
	–	90	MEC 280M	400V ∅	160													1619	621	1759	825	9
KDN 100-250	5.5	–	MEC 132S	400V ∅	10,6	125	100	140	90	280	80	305	1250	840	540	490	24	1129	241	1269	246	6
	7.5	–	MEC 132M	400V ∅	14,4														250		255	6
	11	–	MEC 160M	400V ∅	20,8													1239	292	1379	270	6
	15	–	MEC 160L	400V ∅	27						100	325	1400	940	610	550	28	1284	300	1424	308	7
	18.5	–	MEC 180M	400V ∅	33													1314	578	1454	329	7
	–	45	MEC 225M	400V ∅	78								1600	1060	660	600		1449	696	1589	583	8
	–	55	MEC 250M	400V ∅	94,5													1559	696	1699	678	8
	–	75	MEC 280S	400V ∅	128							380	1800	1200	730	670		1584	850	1724	828	9
	–	90	MEC 280M	400V ∅	160													1634	670	1774	888	9
	–	110	MEC 315S	400V ∅	188						120	435	2000	1340	910	830		1959	1120	2099	1008	9
KDN 100-315	11	–	MEC 160M	400V ∅	20,8	125	100	140	90	315	80	330	1250	840	540	490	24	1239	313	1379	319	6
	15	–	MEC 160L	400V ∅	27						100	350	1400	940	610	550	28	1284	300	1424	335	7
	18.5	–	MEC 180M	400V ∅	33													1314	346	1454	363	7
	22	–	MEC 180L	400V ∅	39													1354	372	1494	373	7
	30	–	MEC 200L	400V ∅	52,5													1394	458	1534	463	7
	37	–	MEC 225S	400V ∅	64													1479	518	1619	523	7
KDN 125-250	7.5	–	MEC 132M	400V ∅	14,4	150	125	140	90	355	80	330	1250	840	540	490	24	1129	310	1269	294	6
	11	–	MEC 160M	400V ∅	20,8													1239	328	1379	325	6
	15	–	MEC 160L	400V ∅	27						100	350	1400	940	610	550	28	1284	416	1424	328	7
	18.5	–	MEC 180M	400V ∅	33													1314	422	1454	349	7
	22	–	MEC 180L	400V ∅	39													1354	463	1494	358	7
	30	–	MEC 200L	400V ∅	52,5													1394	511	1534	394	7
KDN 150-200	5.5	–	MEC 132S	400V ∅	10,6	200	150	160	110	400	100	380	1800	1200	730	670	28	1099	454	1239	377	9
	7.5	–	MEC 132M	400V ∅	14,4														454		386	9
	11	–	MEC 160M	400V ∅	20,8													1209	454	1349	401	9
	15	–	MEC 160L	400V ∅	27													1254	454	1394	420	9
	18.5	–	MEC 180M	400V ∅	33													1284	454	1424	441	9

PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

= 1450 1/min



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PERFORMANCE RANGE
KDN 4 POLES

NUMERICAL SELECTION TABLE
= 1450 1/min

MODEL	Q m³/h	0	3	6	12	18	24	30	36	42	48	54
	l/min	0	50	100	200	300	400	500	600	700	800	900
KDN 32-125.1/105		3.5	3.4	3.1								
KDN 32-125.1/110		3.9	3.8	3.5								
KDN 32-125.1/115		4.25	4.2	3.9								
KDN 32-125.1/120		4.7	4.6	4.3								
KDN 32-125.1/125		5.1	5.1	4.8								
KDN 32-125.1/130		5.6	5.6	5.3								
KDN 32-125.1/135		6.1	6	5.8	4.4							
KDN 32-125.1/140		6.6	6.6	6.4	5.1							
KDN 32-125/115		4.3		4.1	3.2							
KDN 32-125/120		4.75		4.6	3.75							
KDN 32-125/125		5.2		5.05	4.2							
KDN 32-125/130		5.7		5.5	4.8							
KDN 32-125/135		6.2		6	5.3	3.65						
KDN 32-125/142		6.9		6.75	6.15	4.5						
KDN 32-160.1/137		5.3	5.3	4.7								
KDN 32-160.1/145		6.2	6.1	5								
KDN 32-160.1/153		7	7	6.6								
KDN 32-160.1/161		8	7.9	7.6								
KDN 32-160.1/169		8.9	8.9	8.6	5.5							
KDN 32-160.1/177		9	9.8	9.5	6.6							
KDN 32-160/137		5.9		5.6	4.4							
KDN 32-160/145		6.7		6.5	5.3							
KDN 32-160/153		7.6		7.4	6.25							
KDN 32-160/161		8.5		8.25	7.25	8.7						
KDN 32-160/169		9.5		9.3	8.4	6.6						
KDN 32-160/177		10.5		10.4	9.6	7.8						
KDN 32-200.1/170		8.6	8.5	7.2								
KDN 32-200.1/180		9.8	9.8	9								
KDN 32-200.1/190		11.3	11.1	10.5								
KDN 32-200.1/200	H	12.8	12.7	11.7	8.3							
KDN 32-200.1/207	(m)	13.8	13.8	13	8.9							
KDN 32-200/170		8.6		8.2	6.7							
KDN 32-200/180		9.9		9.6	8.2							
KDN 32-200/190		11.2		10.9	9.7	7						
KDN 32-200/200		12.6		12.3	11.1	8.7						
KDN 32-200/210		14.3		14	13.1	10.7						
KDN 32-200/219		15.7		15.4	14.8	13	9.8					
KDN 40-125/115		4.2		4.1	3.8	3.2	2.4					
KDN 40-125/120		4.6		4.5	4.2	3.7	2.9					
KDN 40-125/125		5.1		4.9	4.7	4.1	3.3					
KDN 40-125/130		5.5		5.4	5.2	4.7	3.9					
KDN 40-125/135		6		5.9	5.8	5.3	4.6					
KDN 40-125/142		6.7		6.6	6.5	6	5.3	4.1				
KDN 40-160/137		5.9		5.8	5.8	5	3.7					
KDN 40-160/145		6.7		6.6	6.5	6	4.8					
KDN 40-160/153		7.6		7.6	7.5	7	6.8					
KDN 40-160/161		8.6		8.5	8.4	8	7.1	5.6				
KDN 40-160/169		9.6		9.5	9.5	9.1	8.3	7				
KDN 40-160/177		10.7		10.7	10.6	10.2	9.5	8.3				
KDN 40-200/170		8.4		8.4	8.2	7.4	5.7					
KDN 40-200/180		9.7		9.7	9.4	8.8	7.2					
KDN 40-200/190		10.9		10.8	10.7	10.2	8.8	6.8				
KDN 40-200/200		12.2		12.1	12	11.7	10.4	8.6				
KDN 40-200/210		13.6		13.5	13.5	13.2	12.1	10.6				
KDN 40-200/219		15		15	15	14.7	13.8	12.4	10.4			
KDN 40-250/220		15.8			15.6	14.8	13.6	12				
KDN 40-250/230		17.4			17.2	16.5	15.3	13.7				
KDN 40-250/240		19.1			19	18.2	17	15.5				
KDN 40-250/250		20.7			20.6	20	18.9	17.5				
KDN 40-250/260		22.7			22.6	22.1	21	19.5				

PERFORMANCE RANGE
KDN 4 POLES

NUMERICAL SELECTION TABLE
= 1450 1/min

MODEL	Q m³/h	0	3	6	12	18	24	30	36	42	48	54
	l/min	0	50	100	200	300	400	500	600	700	800	900
KDN 50-125/115		4.2			4.1	3.9	3.6	3.3	2.9	2.3		
KDN 50-125/120		4.6			4.4	4.3	4	3.7	3.3	2.8		
KDN 50-125/125		5			4.9	4.7	4.5	4.2	3.7	3.3		
KDN 50-125/130		5.6			5.4	5.2	5	4.7	4.2	3.8	3.2	
KDN 50-125/135		6			5.8	5.7	5.5	5.2	4.8	4.3	3.8	
KDN 50-125/139		6.3			6.2	6.1	5.9	5.6	5.2	4.8	4.2	
KDN 50-125/144		6.7			6.7	6.6	6.4	6.2	5.8	5.3	4.8	4.1
KDN 50-160/137		6			6	5.9	5.6	5.2	4.8			
KDN 50-160/145		6.8			6.7	6.7	6.5	6.2	5.8			
KDN 50-160/153		7.6			7.6	7.5	7.4	7.2	6.7			
KDN 50-160/161		8.4			8.4	8.3	8.2	8.1	7.7			
KDN 50-160/169		9.4			9.3	9.2	9.2	9.1	8.8			
KDN 50-160/177		10.4			10.3	10.3	10.2	10.1	9.95			
KDN 50-200/170		9.5			9.3	9.2	8.8	8	6.85			
KDN 50-200/180		10.6			10.6	10.5	10.1	9.5	8.6	7.3		
KDN 50-200/190		11.8			11.7	11.6	11.4	10.8	10.1	8.9		
KDN 50-200/200		13.1			13	13	12.8	12.3	11.6	10.6	9.4	
KDN 50-200/210		14.6			14.6	14.5	14.4	13.9	13.2	12.2	11	
KDN 50-200/219		16			16	16	15.9	15.4	14.2	13.8	12.7	11.4
KDN 50-250/220		15.9			15.7	15.6	15.4	14.9	13.8	12.4	10.5	
KDN 50-250/230		17.4			17.3	17.2	17	16.5	15.5	14.2	12.6	10.3
KDN 50-250/240		19			19	19	18.8	18.2	17.4	16.2	14.7	12.4
KDN 50-250/250		20.8			20.8	20.7	20.6	20.1	19.2	18.1	17	14.8
KDN 50-250/263		23			23	22.9	22.8	22.5	21.7	20.6	19.4	17.5
KDN 65-125/120/110		3.75					3.5	3.3	3.2	2.9	2.7	2.3
KDN 65-125/120		4.25					3.9	3.8	3.6	3.3	3.1	2.7
KDN 65-125/125	H (m)	4.7					4.4	4.25	4.1	3.8	3.6	3.25
KDN 65-125/130		5.1					4.9	4.75	4.6	4.3	4.1	3.8
KDN 65-125/135		5.6					5.4	5.3	5.2	4.9	4.7	4.3
KDN 65-125/140		6					5.9	5.8	5.7	5.5	5.2	4.9
KDN 65-125/144		6.4					6.35	6.25	6.2	5.9	5.7	5.4
KDN 65-160/137		5.8					5.7	5.4	5.2	4.75	4.3	3.7
KDN 65-160/145		6.5					6.5	6.3	6	5.7	5.3	4.75
KDN 65-160/153		7.3					7.2	7.2	6.9	6.7	6.3	5.8
KDN 65-160/161		8.2					8.1	8.1	7.9	7.7	7.3	6.85
KDN 65-160/169		9.1					9.1	9	8.9	8.7	8.4	8
KDN 65-160/177		10					10	9.9	9.8	9.7	9.45	9.1
KDN 65-200/170		9.3				9.3	9.2	9.2	9	8.5	7.9	7.1
KDN 65-200/180		10.4				10.4	10.4	10.3	10.2	10	9.5	8.8
KDN 65-200/190		12.1				12	12	12	11.9	11.5	11.1	10.5
KDN 65-200/200		13.3				13.3	13.3	13.2	13.1	13	12.8	12.3
KDN 65-200/210		14.8				14.7	14.7	14.7	14.6	14.6	14.3	13.8
KDN 65-200/219		16.2				16.2	16.2	16.1	16	15.9	15.8	15.4
KDN 65-250/220		15.8					15.8	15.5	15.1	14.5	14	13.2
KDN 65-250/230		17.4					17.4	17.2	16.8	16.3	15.7	15
KDN 65-250/240		19					19	18.9	18.5	18.1	17.5	16.8
KDN 65-250/250		20.7					20.7	20.6	20.4	20	19.5	18.8
KDN 65-250/263		23.2					23	23	22.9	22.5	22.2	21.6
KDN 65-315/260		22.3					22.2	22.1	22	21.5	21	20.5
KDN 65-315/275		25.1					25.1	25	24.8	24.6	24.1	23.5
KDN 65-315/290		28.2					28.2	28.1	28	27.8	27.3	27
KDN 65-315/305		31.7					31.5	31.4	31.4	31.3	31.2	30.8
KDN 65-315/320		35.7					35.4	35.3	35.2	35.1	35	34.8

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60	66	72	78	84	90	102	114	120	150	180	210	240	270	300	330	360	390	420
1000	1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
1.9																		
2.3																		
2.8																		
3.3	2.8																	
3.9	3.5	3																
4.5	4.1	3.6																
5	4.65	4.2	3.7															
4.1																		
5.25																		
6.3	5.8																	
7.6	7.1	6.4																
8.7	8.2	7.5																
6.3																		
8.1																		
9.8	8.8																	
11.6	10.8																	
13.4	12.7	12																
15	14.4	13.5	12.7															
12	10.7																	
14.1	12.7	11.4																
16	14.7	13.6																
18	17	15.9	14.5															
20.8	19.8	18.6	17.4	16														
20	19.2	18.4	17	16	15													
23	22.5	21.5	20.5	19.4	18.1													
26.5	25.5	25	24	23.1	22	19.5												
30.4	29.6	29	28	27.2	26.1	23.5												
34.5	33.8	33.5	32.5	31.5	30.8	28	24.8											

PERFORMANCE RANGE

KDN 4 POLES

NUMERICAL SELECTION TABLE

= 1450 1/min

MODEL	Q m³/h	0	3	6	12	18	24	30	36	42	48	54
	l/min	0	50	100	200	300	400	500	600	700	800	900
KDN 80-160/147/127		5.7								5.4	5.25	5.05
KDN 80-160/153/136		6.4								6.2	6.05	5.85
KDN 80-160/153		7.3								7.1	6.9	6.7
KDN 80-160/161		8.2								8	7.9	7.75
KDN 80-160/169		9.1								9	8.85	8.7
KDN 80-160/177		10								9.9	9.85	9.8
KDN 80-200/170		9.2								9.1	9	8.7
KDN 80-200/180		10.3								10.2	10.2	10
KDN 80-200/190		11.4								11.4	11.3	11.2
KDN 80-200/200		12.7								12.6	12.6	12.6
KDN 80-200/210		14.1								14	14	14
KDN 80-200/222		15.9								15.9	15.8	15.7
KDN 80-250/220		16								15.9	15.8	15.7
KDN 80-250/230		17.3								17.3	17.2	17.1
KDN 80-250/240		19								19	19	18.9
KDN 80-250/250		20.8								20.7	20.7	20.7
KDN 80-250/260		22.6								22.5	22.5	22.4
KDN 80-250/270		24.5								24.4	24.4	24.4
KDN 80-315/275		24.8									24.8	24.8
KDN 80-315/290		27.8									27.8	27.8
KDN 80-315/305		31.4									31.4	31.3
KDN 80-315/320		34.8									34.7	34.6
KDN 80-315/334		38.3									38.2	38.2
KDN 100-200/180		10.1										
KDN 100-200/190	H (m)	11.6										
KDN 100-200/200		12.9										
KDN 100-200/210		14.3										
KDN 100-200/219		16										
KDN 100-250/220		15.2										
KDN 100-250/230		16.9										
KDN 100-250/240		18.5										
KDN 100-250/250		20.1										
KDN 100-250/260		22.3										
KDN 100-250/270		24.3										
KDN 100-315/275		25.1										
KDN 100-315/290		28										
KDN 100-315/305		31.3										
KDN 100-315/320		34.5										
KDN 100-315/334		38.2										
KDN 125-250/220		15										
KDN 125-250/230		16.6										
KDN 125-250/240		18.2										
KDN 125-250/250		19.9										
KDN 125-250/260		21.7										
KDN 125-250/269		23.9										
KDN 150-200/210/170		8.9										
KDN 150-200/218/182		10.4										
KDN 150-200/218/200		11.4										
KDN 150-200/218		12.9										
KDN 150-200/224		13.8										

DAB PUMPS reserve the right to make modifications without prior notice

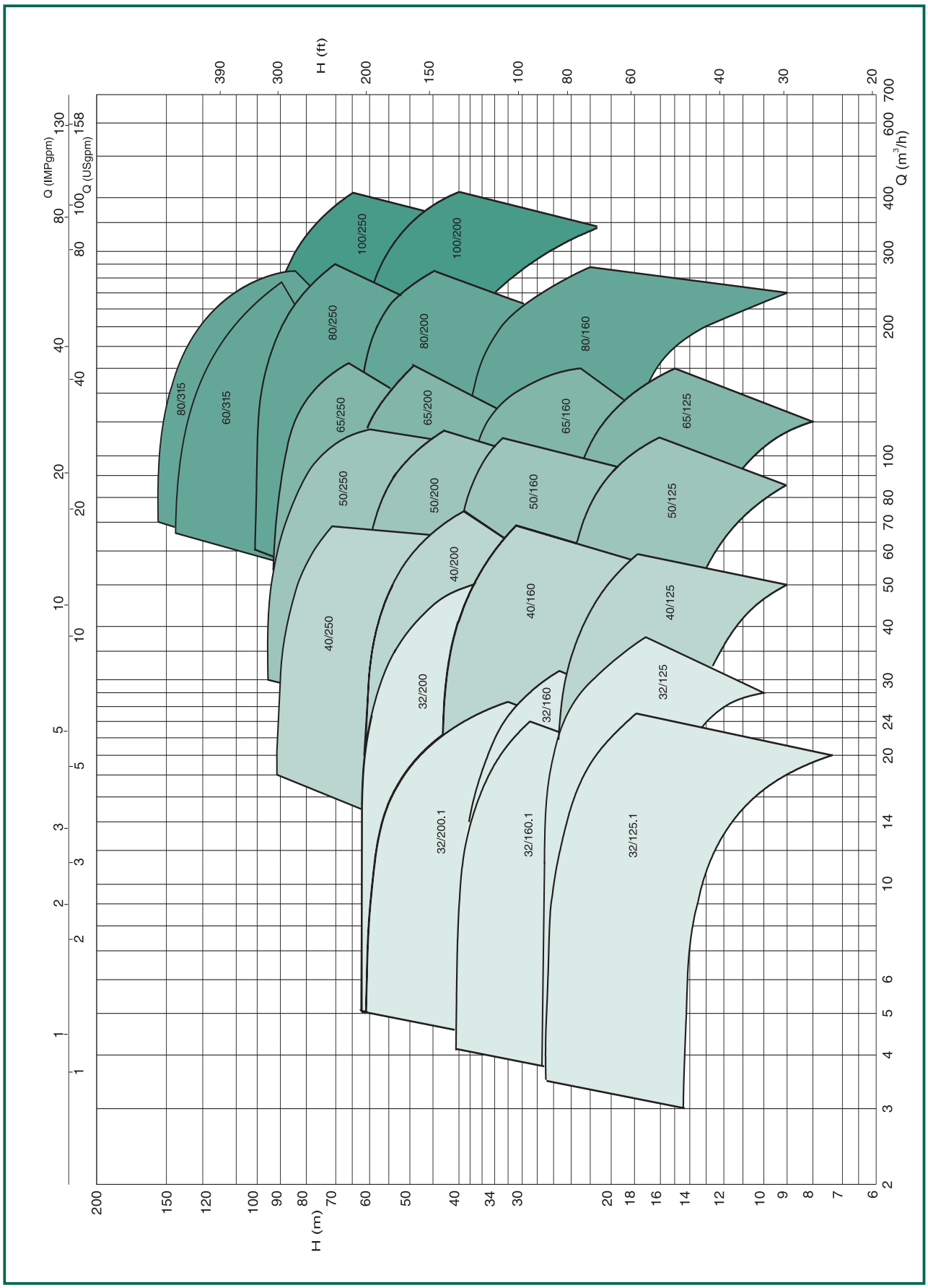
60	66	72	78	84	90	102	114	120	150	180	210	240	270	300	330	360	390	420
1000	1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
4.8	4.6	4.35	4.15	3.85	3.6	3.1	2.5	2.2										
5.7	5.4	5.15	4.8	4.65	4.4	3.85	3.3	3										
6.5	6.3	6	5.75	5.4	5.2	4.55	3.9	3.6										
7.5	7.3	7.05	6.8	6.5	6.25	5.6	4.9	4.6										
8.6	8.35	8.1	7.85	7.6	7.3	6.75	6	5.7										
9.7	9.5	9.3	9.1	8.85	8.7	8.1	7.25	6.9										
8.5	8.2	7.8	7.5	7.1	6.7	5.6												
9.9	9.6	9.2	9	8.6	8.2	7.2												
11.1	11	10.7	10.5	10.1	9.8	8.7	6.8											
12.5	12.4	12.3	12	11.6	11.4	10.5	9.4	8.8										
13.9	13.8	13.7	13.6	13.3	13.1	12.1	11.2	10.6										
15.6	15.6	15.5	15.4	15.3	15	14.3	13.4	12.8										
15.6	15.5	15.2	14.9	14.5	13.9	12.8												
17	16.9	16.8	16.5	16	15.5	14.3	12.4											
18.8	18.7	18.6	18.4	18	17.6	16.6	15.3	14.6										
20.6	20.5	20.4	20.3	19.9	19.6	18.6	17.4	16.8										
22.3	22.2	22.1	22	21.8	21.4	20.6	19.6	19	15.1									
24.3	24.2	24.1	24	23.7	23.3	22.4	21.4	20.7	16.3									
24.7	24.6	24.5	24.4	24.3	24	23	21.4	20.5										
27.7	27.7	27.6	27.6	27.5	27.4	26.5	25	24.6	19.1									
31.2	31.2	31.2	31.2	31.2	30.9	30	29	28.5	24									
34.6	34.5	34.4	34.3	34	33.9	33.8	33.2	32.8	28.8									
38.2	38.2	38.2	38.1	38	37.9	37.6	37	36.9	33.1	28								
10.1	10.1	10.	9.9	9.7	9.5	9.1	8.5	8.3	7	5.4								
11.5	11.4	11.3	11.2	11.1	11	10.5	10.1	10	8.6	7								
12.8	12.8	12.8	12.7	12.6	12.5	12.2	11.8	11.6	10.4	8.8								
14.2	14.2	14.2	14.2	14.1	14	13.8	13.5	13.3	12.3	10.7	9							
15.7	15.7	15.6	15.6	15.5	15.5	15.3	15.1	15	14	12.5	10.8							
14.9	14.9	14.9	14.8	14.7	14.6	14.3	13.7	13.4	11.4									
16.7	16.7	16.6	16.5	16.4	16.3	16.1	15.7	15.3	13.6	11.1								
18.3	18.3	18.3	18.2	18.1	18	17.9	17.6	17.4	15.7	13.3								
20	20	19.9	19.8	19.7	19.6	19.5	19.4	19.2	17.6	15.4								
22.1	22.1	22.1	22	21.9	21.8	21.7	21.5	21.4	19.8	17.7	15.1							
24.3	24.3	24.3	24.3	24.3	24.2	24.1	23.7	23.5	22.1	20.1	17.3							
25	25	25	24.9	24.8	24.7	24.6	24.4	24	22	19								
27.9	27.9	27.9	27.9	27.8	27.7	27.6	27.5	27	25.5	23								
31.1	31.1	31.1	31	30.9	30.8	30.7	30.6	30.5	29	27	24							
34.4	34.4	34.4	34.4	34.4	34.3	34.2	34.1	34	33	31	28.1							
38.2	38.1	38.1	38.1	38	38	37.7	37.5	37.3	36.5	34.8	32	28.8						
						14.9	14.9	14.8	14.5	14	13	11.8	10.5	9.2				
						16.6	16.6	16.5	16.3	15.6	14.8	13.8	12.5	12.3	9.5			
						18.1	18.1	18.1	18	17.7	16.8	15.8	14.5	13.3	11.6	10.1		
						19.8	19.8	19.7	19.6	19.4	18.7	17.8	16.6	15.5	14	12.3		
						21.7	21.6	21.5	21.4	21.3	20.6	19.9	18	17.7	16.3	14.6	13	
						23.9	23.9	23.8	23.6	23.2	22.7	22.1	22.2	20.2	19	17.5	15.6	14
						8.9	8.9	8.8	8.7	8.6	8.3	7.9	7.4	6.8	6.2	5.4	4.5	
						10.4	10.4	10.3	10.2	9.9	9.5	9.1	8.6	8.1	7.4	6.6	5.8	
						11.4	11.4	11.4	11.2	10.9	10.6	10.1	9.7	9.2	8.5	7.8	6.9	5.9
						12.7	12.7	12.6	12.4	12.1	11.7	11.2	10.7	10.2	9.6	8.8	8	7.1
						13.6	13.6	13.5	13.3	13	12.6	12.2	11.7	11.2	10.6	9.9	9.2	8.2

PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

= 2900 1/min



DAB PUMPS reserve the right to make modifications without prior notice

DAB PUMP PERFORMANCE

PERFORMANCE RANGE
KDN 2 POLES

NUMERICAL SELECTION TABLE
= 2900 1/min

MODEL	Q m³/h	0	6	12	18	24	30	36	42	48	54	60	66	72
	l/min	0	100	200	300	400	500	600	700	800	900	1000	1100	1200
KDN 32-125.1/105	H (m)	13.8	13.6	12.3	9.7									
KDN 32-125.1/110		15.5	15.2	13.9	11.5									
KDN 32-125.1/115		17.1	16.8	15.5	13.2									
KDN 32-125.1/120		18.8	18.5	17.3	15.1									
KDN 32-125.1/125		20.5	20.3	19.1	17									
KDN 32-125.1/130		22.3	22.2	21.3	19									
KDN 32-125.1/135		24.4	24.1	23.3	21.1	17.8								
KDN 32-125.1/140		26.5	26.4	25.6	23.4	20.1								
KDN 32-125/115		17.3		16.5	15.1	12.9								
KDN 32-125/120		19		18.2	17	14.9	11.1							
KDN 32-125/125		20.9		20.1	18.9	16.9	13.5							
KDN 32-125/130		22.9		22	21	19.1	16.2							
KDN 32-125/135		24.9		24	22.1	21.5	18.5	14.7						
KDN 32-125/142		27.8		27	26.1	24.5	21.7	18						
KDN 32-160.1/137		21.5	21.2	19.3										
KDN 32-160.1/145		24.7	24.5	22.3	16.5									
KDN 32-160.1/153		28.3	28	26	20.5									
KDN 32-160.1/161		32	31.8	30	25									
KDN 32-160.1/169		36	35.7	34.4	29.5									
KDN 32-160.1/177		39.5	39.3	38.2	34.5	26								
KDN 32-160/137		23.7		22.6	20.7	17.6								
KDN 32-160/145		27		25.8	23.9	21.2	16.9							
KDN 32-160/153		30.4		29.5	27.7	25.8	21.2							
KDN 32-160/161		34		33	31.7	29.1	25.5							
KDN 32-160/169		38		37.3	36	33.6	35.7	26.5						
KDN 32-160/177		41.8		41.5	40.5	38.4	35.3	31.4						
KDN 32-200.1/170		34.3	34.2	31.9	23.5									
KDN 32-200.1/180		39.4	39.2	36.7	30									
KDN 32-200.1/190		45.3	44.7	41.5	35.5									
KDN 32-200.1/200		51.5	51	47.3	41	35								
KDN 32-200.1/207		55.3	55	51.8	46.4	37								
KDN 32-200/170		34		33	31	27	21							
KDN 32-200/180		39		38.5	36.5	32.5	28							
KDN 32-200/190		45		43.5	42	39	34	28.5						
KDN 32-200/200		51		49	48	45	40.5	35						
KDN 32-200/210		57		56	55	52.5	48.5	43	36					
KDN 32-200/219		63		62	61	59	56.5	52.5	46.5	39.5				

PERFORMANCE RANGE
KDN 2 POLES

NUMERICAL SELECTION TABLE
= 2900 1/min

MODEL	Q m³/h	0	6	12	18	24	30	36	42	48	54	60	66	72
	l/min	0	100	200	300	400	500	600	700	800	900	1000	1100	1200
KDN 40-125/115		16.8		13.3	15.6	15	14.3	13.2	12.6	9.8				
KDN 40-125/120		18.5		18	17.5	17	16	15	13.5	11.8				
KDN 40-125/125		20.4		20	19.5	19	18	16.7	15.3	13.5				
KDN 40-125/130		22		21.8	21.5	21	20	19	17.5	15.7	14			
KDN 40-125/135		24.1		24	23.9	23.4	22.5	21.5	20	18.3	16.4			
KDN 40-125/142		26.8		26.6	26.4	26	25.3	24.4	23	21.4	19.4	17		
KDN 40-160/137		23.9			23.8	23	22	20.5	18	15				
KDN 40-160/145		27.5			27.4	27	25.7	24.2	22.1	19.5				
KDN 40-160/153		31.1			31	30.5	29.5	28	26.5	24	21			
KDN 40-160/161		34.5			34.5	34.4	33.7	32.3	30.5	28.5	25.8	22.5		
KDN 40-160/169		38.4			38.4	38.2	38	37	35	33.5	31	28		
KDN 40-160/177		42.6			42.5	42.4	42	41.5	40	38.5	35	33	30	
KDN 40-200/170		33.6			33	32.6	32	30	26.5	22.5				
KDN 40-200/180		38.8			38.5	38	37	35	32.5	29	25			
KDN 40-200/190		43.4			43.1	43	42.7	41	38	35	31.5	27		
KDN 40-200/200		48.7			48.4	48.2	47.5	46.5	44	41.5	38.5	34.5		
KDN 40-200/210		54.3			54.1	54	53.6	53	51	48.5	46	42.5	38	
KDN 40-200/219		60			59.8	59.7	59.4	59	57	55	52.5	49.5	46	40
KDN 40-250/220		63.1			62.8	62.5	61	59	57	55	52	48		
KDN 40-250/230		69.5			69.3	68.5	67.8	66	63.5	61	58	55	51	
KDN 40-250/240		76.3			76	75.8	75	73	70.5	68	65	62	58.5	
KDN 40-250/250		82.8			82.5	82	81.8	80	78	75.5	72.5	69	66	
KDN 40-250/260		91			90.5	90	89.5	88.5	86.5	84	81	78	74	
KDN 50-125/115	H (m)	17.1					15.9	15.5	15	14.3	13.6	13	12.2	11.5
KDN 50-125/120		18.2					17.5	17	16.5	16	15.3	14.7	14	13.2
KDN 50-125/125		19.8					19.4	19	18.5	17.9	17.4	16.6	16	15.1
KDN 50-125/130		21.5					21.1	20.8	20.5	19.8	19.2	18.5	17.8	17
KDN 50-125/135		23.2					23	22.6	22.3	21.8	21.2	20.6	19.9	19.3
KDN 50-125/139		24.7					24.5	24.3	24	23.5	23	22.4	21.6	20.8
KDN 50-125/144		25.9					26.5	26.4	26.1	25.6	25.1	24.5	24	23.2
KDN 50-160/137		24.2					23.8	23.7	23.5	22.5	22	21	20.3	19
KDN 50-160/145		27.2					27	26.9	26.6	26.4	25.5	25	23.8	23
KDN 50-160/153		30.3					30.3	30.2	30	29.9	29.5	28.5	27.7	26.5
KDN 50-160/161		33.8					33.7	33.7	33.6	33.6	33.3	32.5	31.8	31
KDN 50-160/169		37.7					37.7	37.5	37.5	37.4	37	36.2	35.7	35.5
KDN 50-160/177		41.6					41.5	41.5	41.3	41.2	41	40.6	40.5	39.5
KDN 50-200/170		37.9					37	36.8	36.4	35	34	32	30	27
KDN 50-200/180		42.5					42	41.7	41.4	40.5	39.5	38	36	34
KDN 50-200/190		47.2					46.8	46.6	46	45.7	44.5	43.5	42	40
KDN 50-200/200		52.4					52.2	52	18	51.5	50.5	49	47.5	46
KDN 50-200/210		58.4					58.4	58.2	58	57.5	56.5	55.5	54	52.5
KDN 50-200/219		64					64	64	64	63.5	62.5	61.5	60	58.5
KDN 50-250/220		63.7					63.3	63.1	63	62	61	59	57.5	55
KDN 50-250/230		69.6					69.3	69	68.8	68.5	68	66	64	62
KDN 50-250/240		76					75.8	75.5	75.3	75	74.5	73	71.5	69
KDN 50-250/250		83.2					83	82.9	82.8	83.5	82	80.5	78.5	77
KDN 50-250/263		92.1					92	91.8	91.6	91.5	91.3	89.9	88.5	86.5

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78	84	90	102	114	120	150	180	210	240	270	300	330	360	390	420
1300	1400	1500	1700	1900	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
10.4	9														
12	11.2	10													
14	13	11.8													
16.5	15.2	14													
18.4	17.5	16.3	13.7												
20	19.2	18	15.5												
22.3	21.5	20.5	17.8	15											
18	16.8	15													
21.5	20.5	19													
25.5	24.5	23													
29.8	28.5	27.5													
34.2	33	31.5	29												
38.8	38	36.7	33.5												
25															
32	29														
38	35.5	33													
44.5	42	40													
51	49	46.5	41.5												
57	55	53	48.5												
53	50	46.5	36												
60	57	54	45												
67	65	62	55												
75	72.5	70	64												
84.5	82.5	80	75	61											

PERFORMANCE RANGE
KDN 2 POLES

NUMERICAL SELECTION TABLE
= 2900 1/min

MODEL	Q m³/h	0	6	12	18	24	30	36	42	48	54	60	66	72
	l/min	0	100	200	300	400	500	600	700	800	900	1000	1100	1200
KDN 65-125/120/110		16								14.4	14	13.6	13.1	12.8
KDN 65-125/120		17.8								16	15.6	15.3	14.9	14.4
KDN 65-125/125		19.4								17.8	17.5	17.1	16.8	16.4
KDN 65-125/130		21								19.6	19.5	19.1	18.9	18.5
KDN 65-125/135		22.6								21.8	21.5	21.3	21	20.5
KDN 65-125/140		24								23.6	23.5	23.4	23	22.8
KDN 65-125/144		25.6								25.5	25.4	25.2	25	24.6
KDN 65-160/137		23.1								22.4	22	21.7	21.3	20.5
KDN 65-160/145		26.2								25.7	25.5	25	24.6	24
KDN 65-160/153		29.1								28.8	28.5	28.6	28.5	28
KDN 65-160/161		32.6								32.5	32.4	32.3	32	31.7
KDN 65-160/169		36.4								36.3	36.2	36.1	36	35.7
KDN 65-160/177		40.1								39.9	39.8	39.7	40	39.8
KDN 65-200/170		37.2								36.8	36.7	36.6	36.5	36
KDN 65-200/180		41.7								41.4	41.3	41.2	41.1	41
KDN 65-200/190		48.3								48.2	48.1	48	47.9	47.5
KDN 65-200/200		53.2								53.1	52.9	52.8	52.7	52.5
KDN 65-200/210		59.2								59.1	59	58.9	58.8	58.7
KDN 65-200/219		64.9								64.9	64.8	64.5	64.3	64.1
KDN 65-250/220		63.2								62.8	62.5	62	61	60
KDN 65-250/230		69.5								69.5	69	68.5	68	67
KDN 65-250/240		76								75.7	75.5	75	75	74
KDN 65-250/250		83								82.3	82.3	82.2	82	81.5
KDN 65-250/263		92.6								91.8	91.8	91.7	91.5	91.5
KDN 65-315/260		92,8											92,7	91,9
KDN 65-315/275		105											104,5	103,9
KDN 65-315/290		117,1											117,0	116,5
KDN 65-315/305		130											129,6	129,2
KDN 65-315/320		143											142,9	142,6
KDN 80-160/147/127		23												
KDN 80-160/153/136	H	25.6												
KDN 80-160/153	(m)	29.3												
KDN 80-160/161		32.8												
KDN 80-160/169		36.5												
KDN 80-160/177		40												
KDN 80-200/170		36.6												
KDN 80-200/180		41												
KDN 80-200/190		45.7												
KDN 80-200/200		50.8												
KDN 80-200/210		56.3												
KDN 80-200/222		63.6												
KDN 80-250/220		62.6												
KDN 80-250/230		68.3												
KDN 80-250/240		75.5												
KDN 80-250/250		82.5												
KDN 80-250/260		90												
KDN 80-250/270		97.9												
KDN 80-315/275		106												
KDN 80-315/290		118												
KDN 80-315/305		131												
KDN 80-315/320		143												
KDN 80-315/334		156												
KDN 100-200/180		40.4												
KDN 100-200/190		46.5												
KDN 100-200/200		51.5												
KDN 100-200/210		57.5												
KDN 100-200/219		64												
KDN 100-250/220		61.1												
KDN 100-250/230		67.4												
KDN 100-250/240		73.5												
KDN 100-250/250		79.7												
KDN 100-250/260		88.6												

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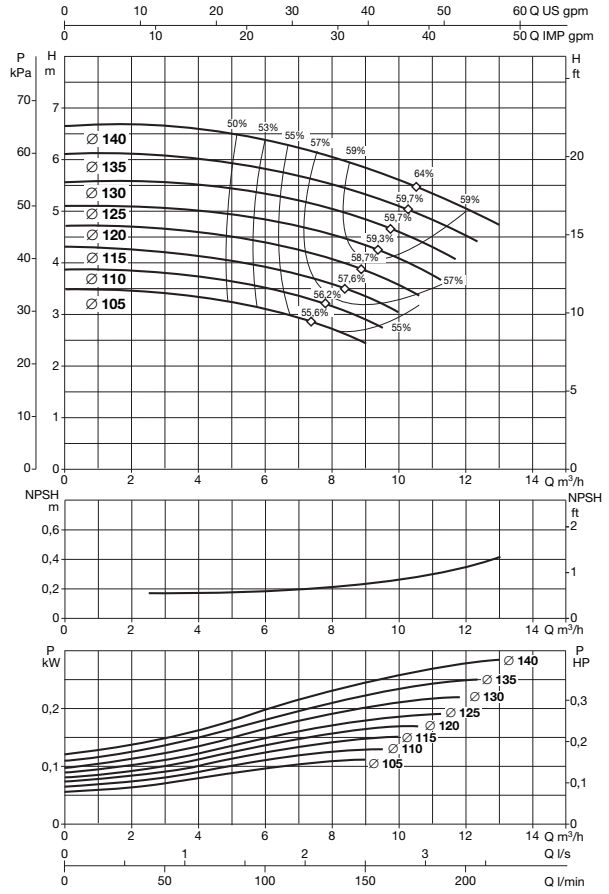
78	84	90	102	114	120	150	180	210	240	270	300	330	360	390	420
1300	1400	1500	1700	1900	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
12.2	11.9	11.4	10.2	8.7	8										
13.9	13.4	13	11.5	10.3	9.4										
16	15.4	15	13.5	12.2	11.4										
18	17.5	17	15.7	14.2	13.2										
20.1	19.6	19.2	18	16.5	15.6										
22.3	22	21.4	20.3	18.9	18	13.8									
24.3	24	23.4	22.5	21.1	20.2	16									
19.7	19	18	16												
23.5	22.7	22	20	17.8	16.5										
27.5	26.6	26	24	22	21										
31.3	30.5	30	28.5	26.5	25.5										
35.3	34.7	34	32.7	31	30										
39.5	39	38.5	37.2	35.5	34.7	28.5									
35	34	32.5	30	27	25										
40.5	40	39	36.5	34	32										
47	41	45	43	40.5	39										
52.3	52	51.8	50	48	46.5										
58.5	58.2	58	56.5	54.5	53.5										
64	63.8	62.5	62.4	61	60	52.5									
59.5	58	57	54	50.5	48										
66	65	64	63	58.5	56.5										
73	72	71	69	66	64										
81	80	79	76.5	73.5	72	60									
91	90	89.5	87.5	85	83	72.5									
90,9	89,7	88,5	85,5	81,9	79,9	67,8									
103,1	102,1	101,1	98,5	95,5	93,8	83,3	69,5								
115,9	115,1	114,3	112,2	109,7	108,3	99,4	87,6								
128,7	128,0	127,3	125,5	123,2	121,9	113,8	103,0	89,6							
142,1	141,6	140,9	139,3	137,3	136,2	128,9	119,1	106,8	92,0						
		21.5	207	20	19.5	17	14.5	11.8	8.8						
		24.5	23.8	23	22.5	20.2	17.5	15	11.8						
		28	27.3	26.5	26	23.5	20.7	16.5	14.5						
		32	31.5	30.5	30	27.8	25	21.5	18.5						
		35.7	35.2	34.5	34.2	32	29.5	26.5	22.6	18.5					
		39.5	39.2	38.7	38.5	37	34.8	31.8	27.8	23					
		35.7	35.5	34.5	34	31	27	21.5							
		40.6	40.5	40	39.5	37	33	27.5							
		45.4	45	44.5	44	42	29	34							
		50.4	50.2	50	49.6	49	46.5	41	35						
		55.9	55.8	55.7	55.6	54.8	52	48	43						
		63.4	63.3	63.2	63.1	63	60	56.5	51.5	45					
		62.5	62.4	62	61.8	60	55.5	49							
		68.2	68.1	68	67.9	67	63	57	50						
		75.4	75.3	75.2	75	74.5	71	65.5	58.5						
		82.3	82	81.9	81.7	82	78.5	74	67.5	60.5					
		89.7	89.6	86.5	89.3	89	86.5	82	77	70	61.5				
		97.8	97.5	91.3	97	96.5	94	89	84	77	69				
		106,1	105,3	104,3	103,7	99,4	93,4	85,6	76,0						
		118,4	117,8	117,1	116,6	113,2	108,2	101,5	93,2	83,4					
		130,9	130,7	130,3	130,1	128,1	125,1	121,0	115,9						
		143,2	143,0	142,6	142,4	140,7	138,0	134,5							
		155,5	155,4	155,3	155,2	154,3									
						40	38	36	33	30.5	28	25			
						45	44	42	39	37	34.5	31	28		
						51	50	48.5	46	44	42	39	35	31.5	
						57	56	55	53	51	49	46	43	39	36
						62.5	62	61	60	58	56	53	50	47	43
						60	59.5	57	54	50.5	46.5	42			
						66.9	66.5	64	61	58	54	49	44		
						72.9	71	70.5	69	66	63	58.5	53		
						79.5	79	78.8	77	74	71	67	62.5		
						88.2	88.1	88	86	83	79.5	76	71.5	66	

KDN 32-125.1 = 1450 1/min



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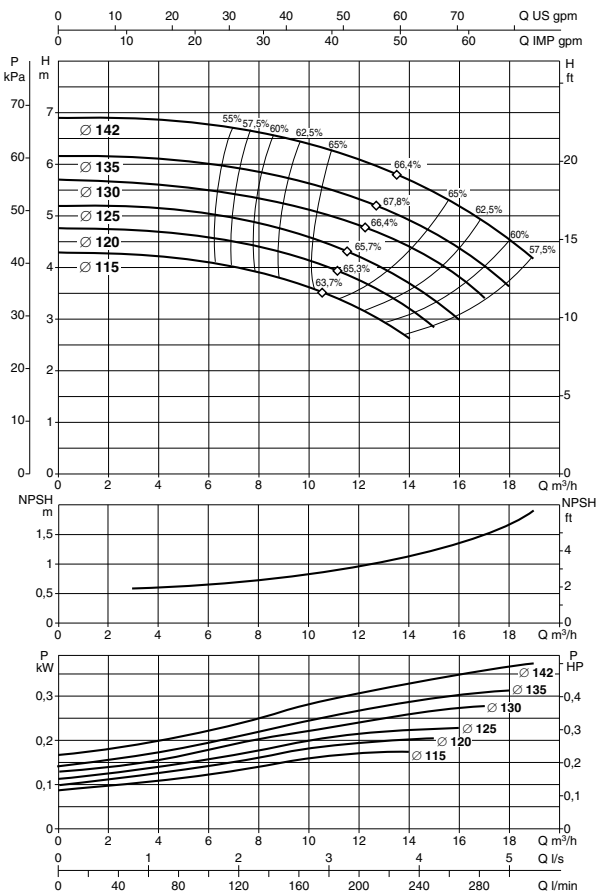

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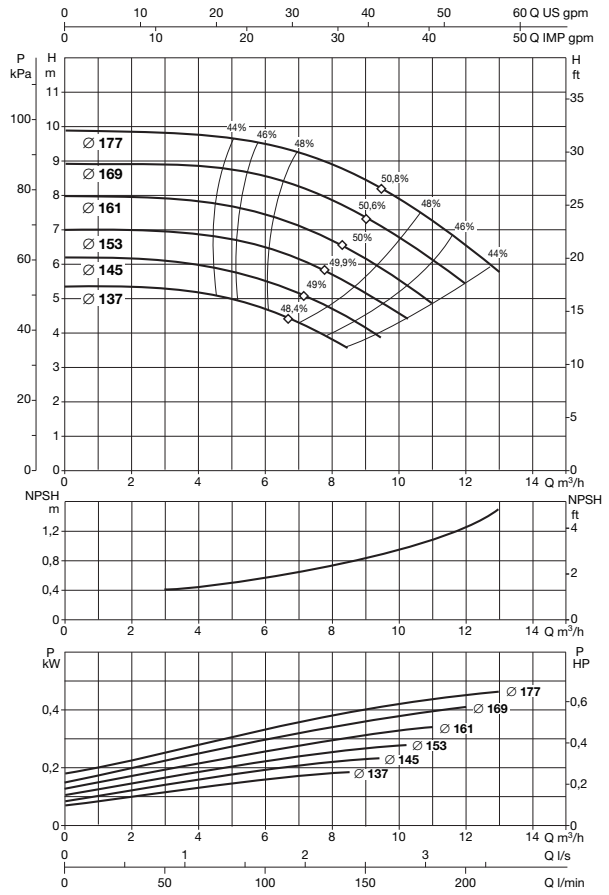

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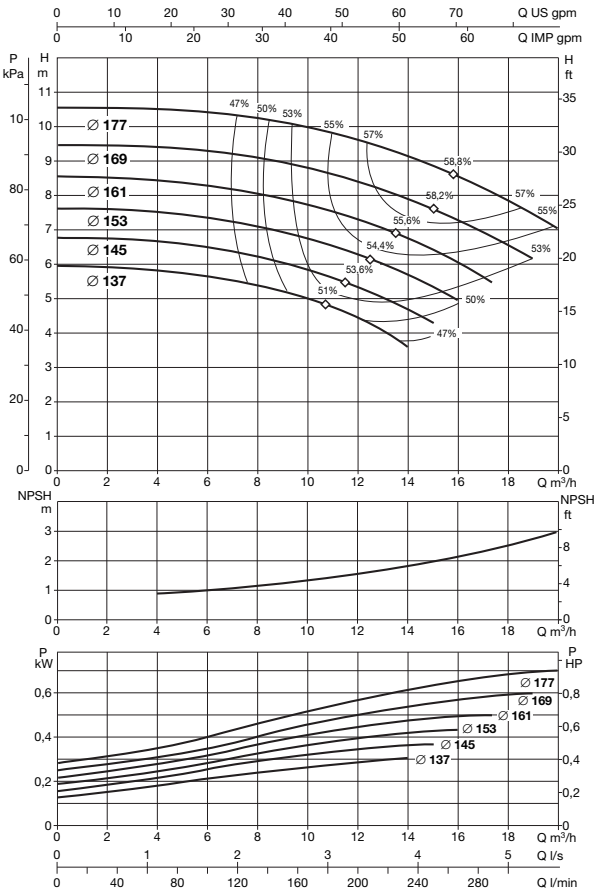

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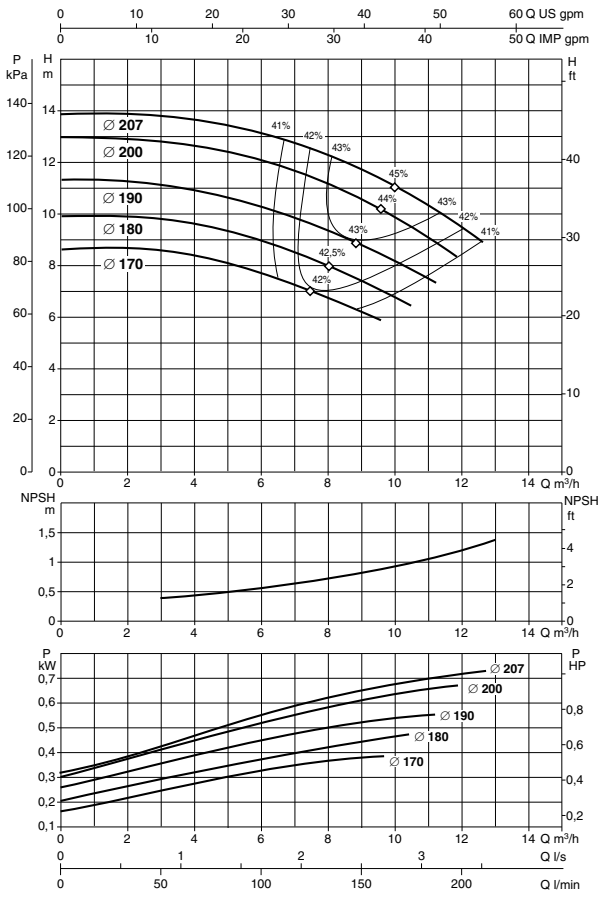
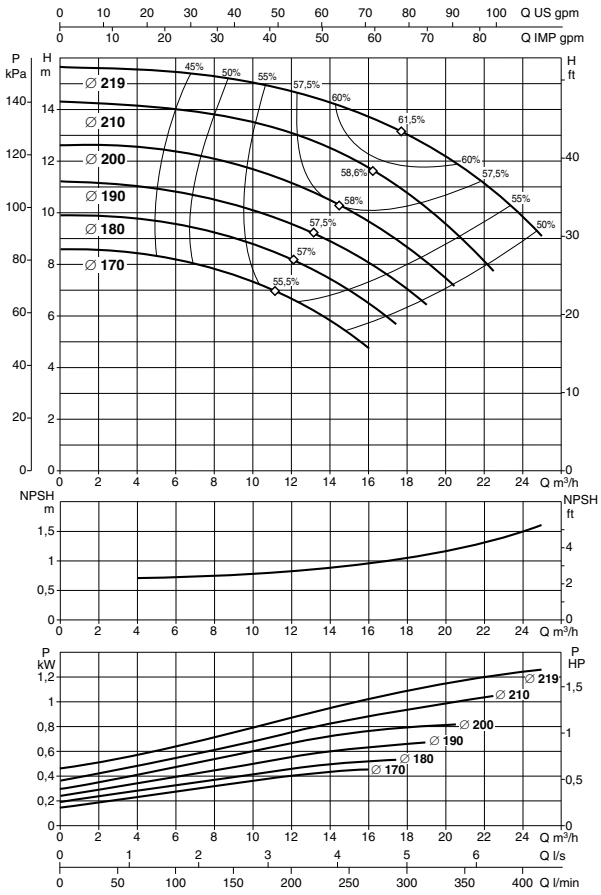
KDN 32-200.1

= 1450 1/min



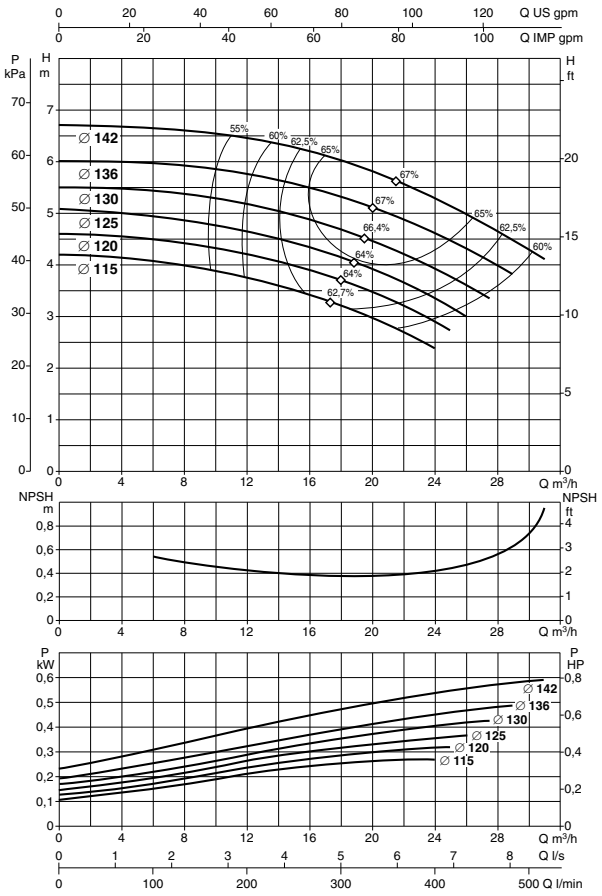
KDN 32-200

= 1450 1/min



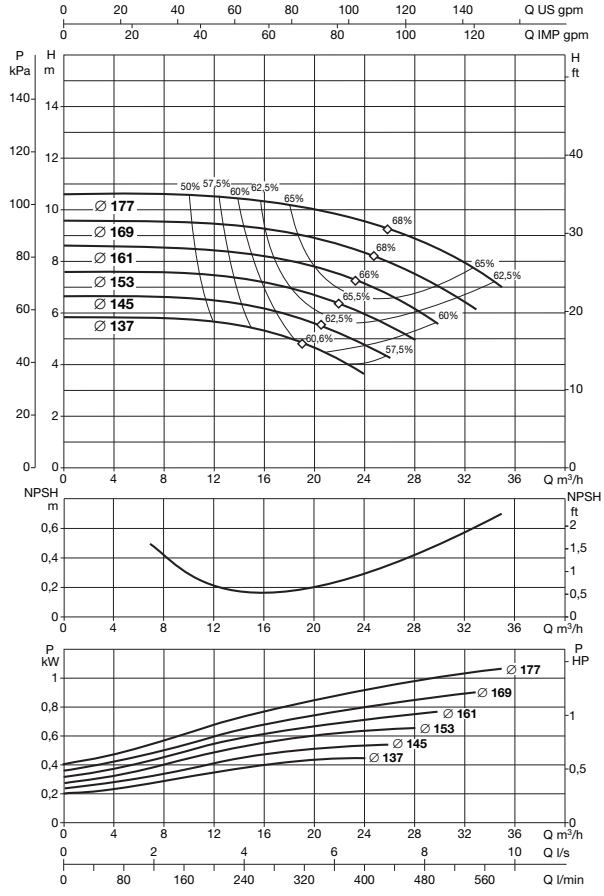
KDN 40-125

= 1450 1/min

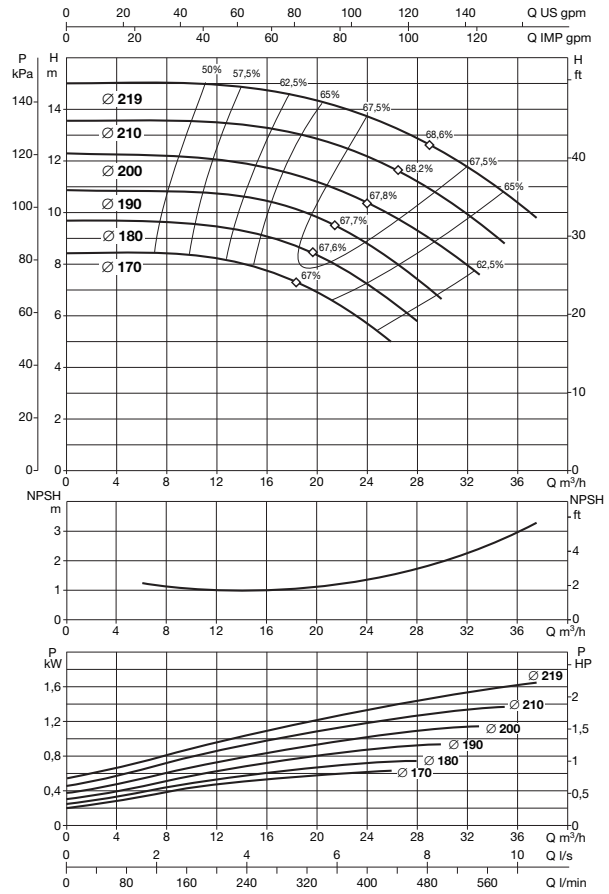


KDN 40-160

= 1450 1/min



KDN 40-200 = 1450 1/min



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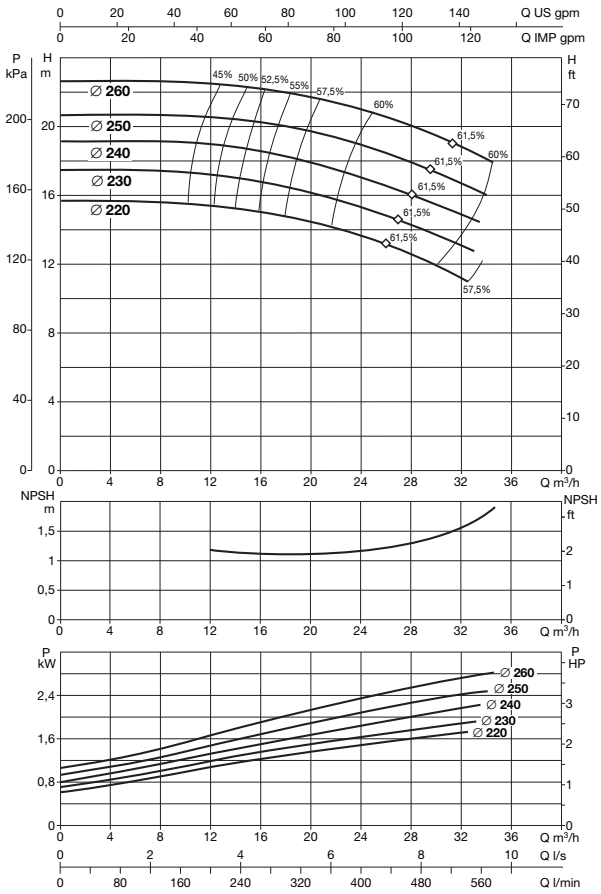
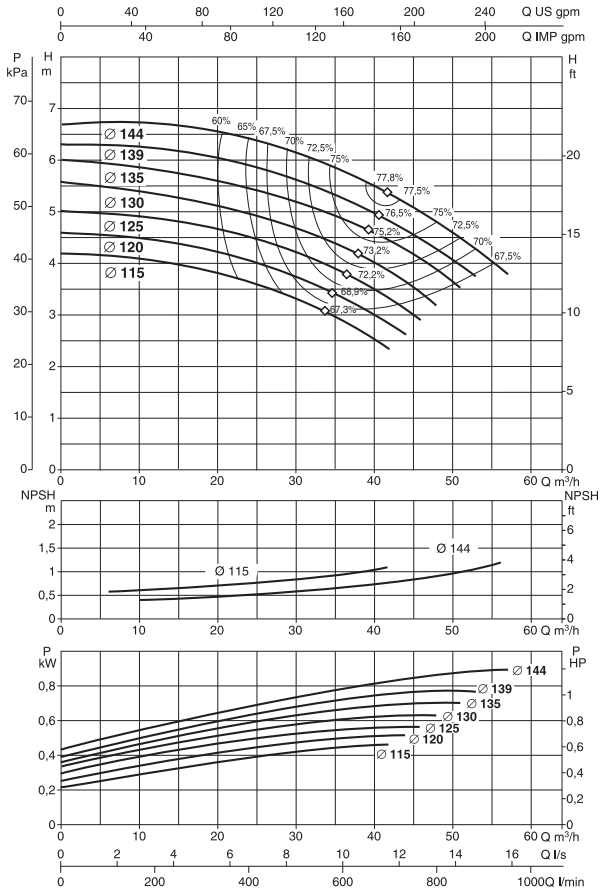
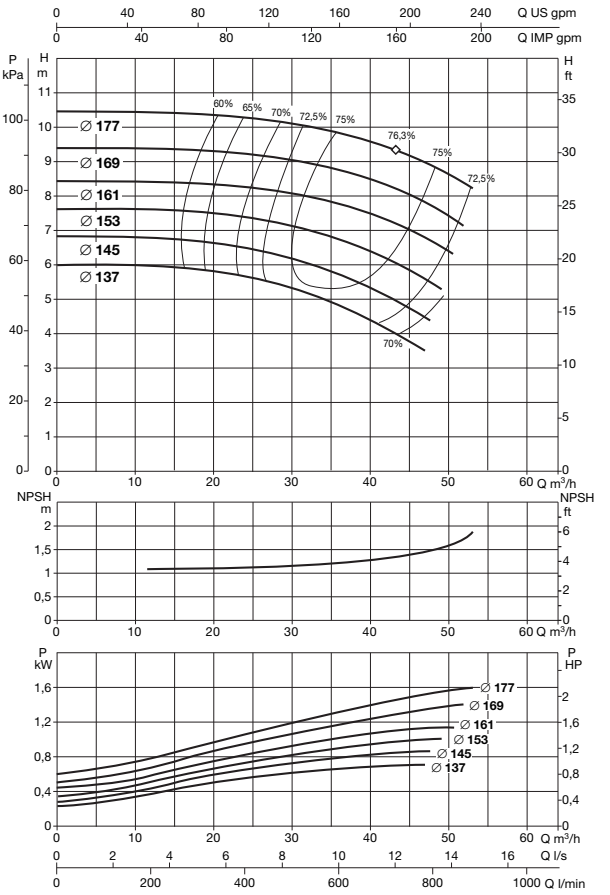


KDN 50-125 = 1450 1/min



KDN 50-160 = 1450 1/min



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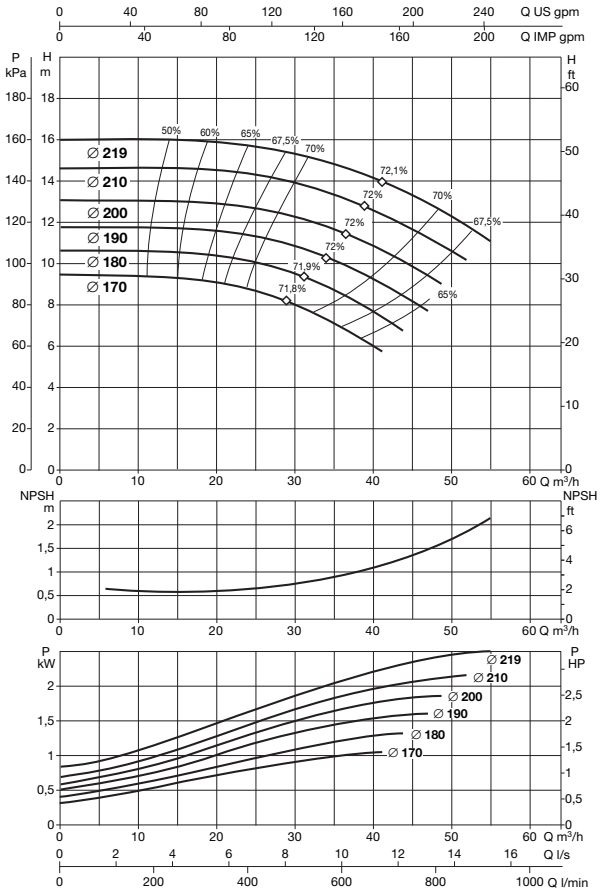
KDN 50-200

= 1450 1/min



KDN 50-250

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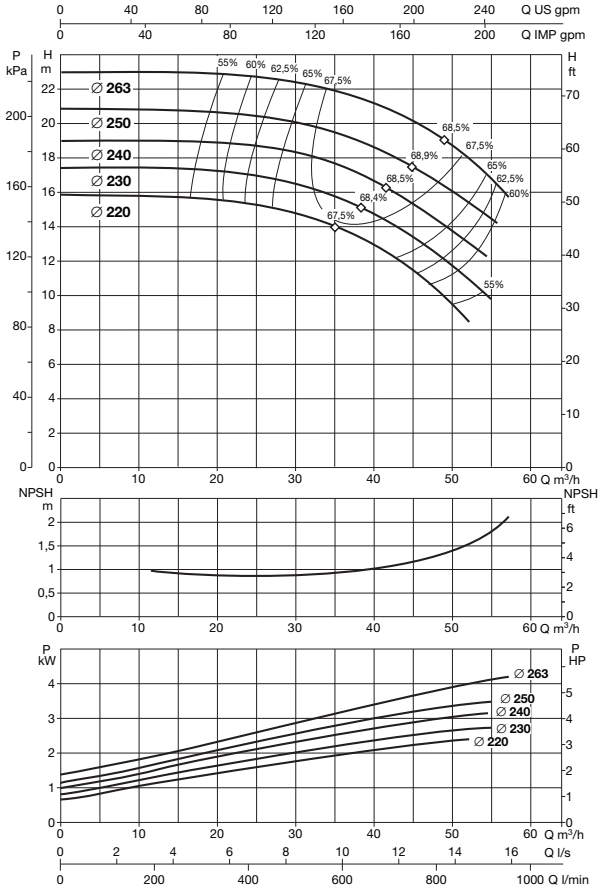
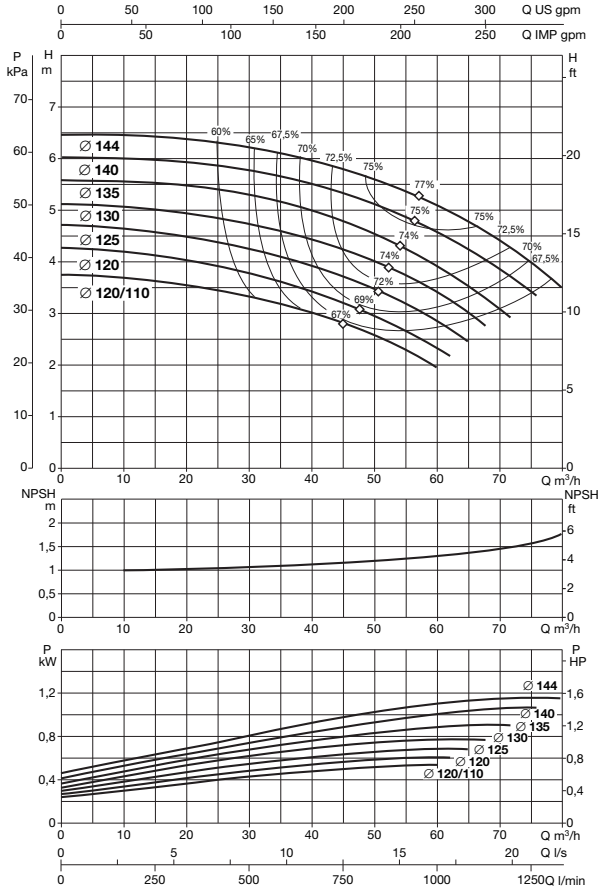


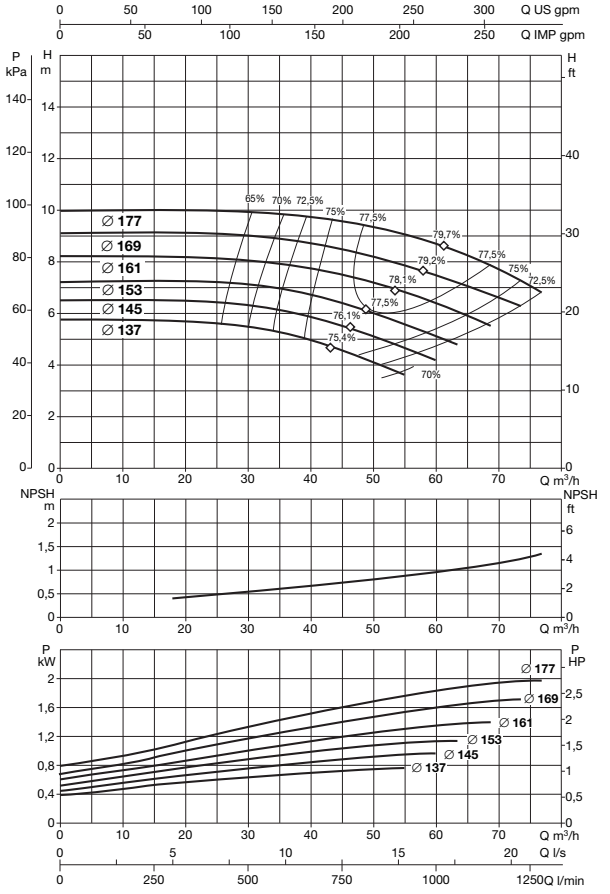
KDN 65-125

= 1450 1/min



KDN 65-160

= 1450 1/min



KDN 65-200

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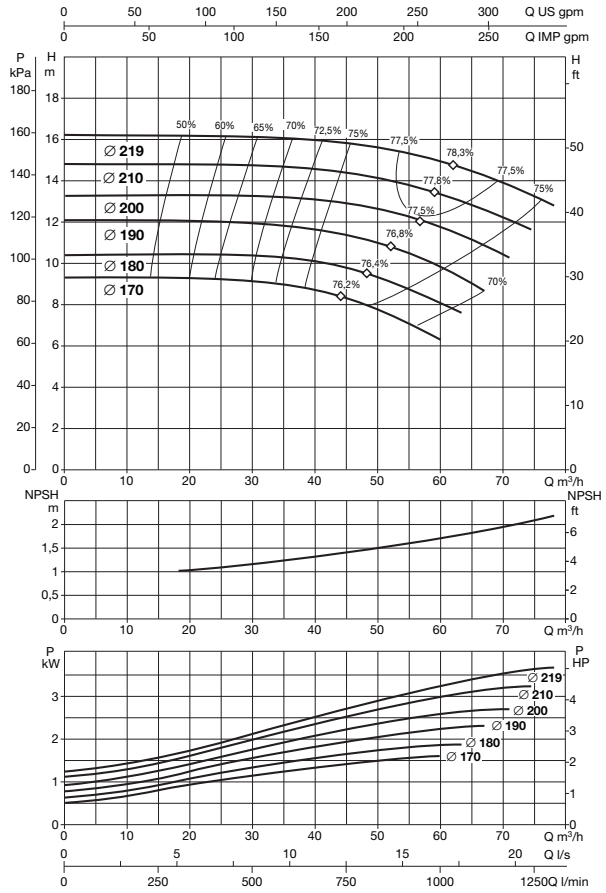

KDN 65-250

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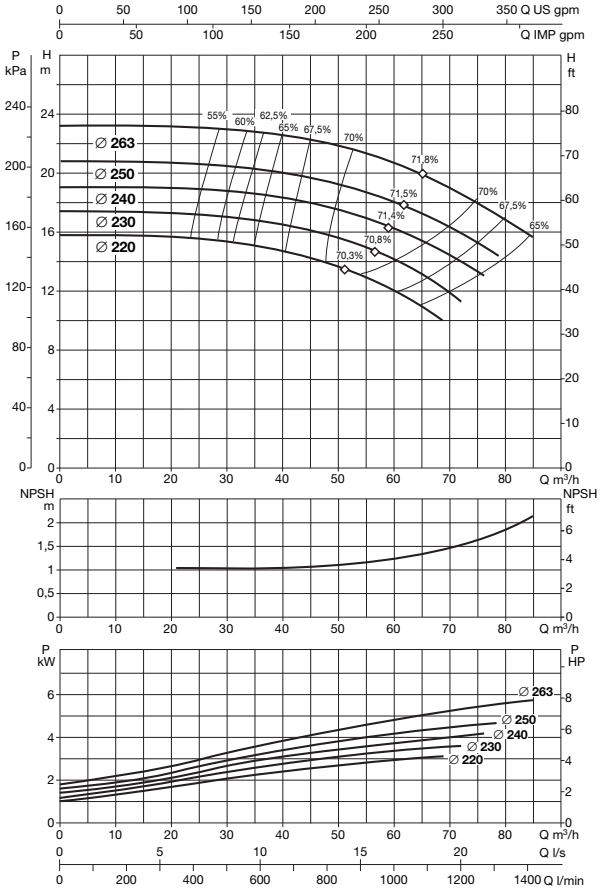
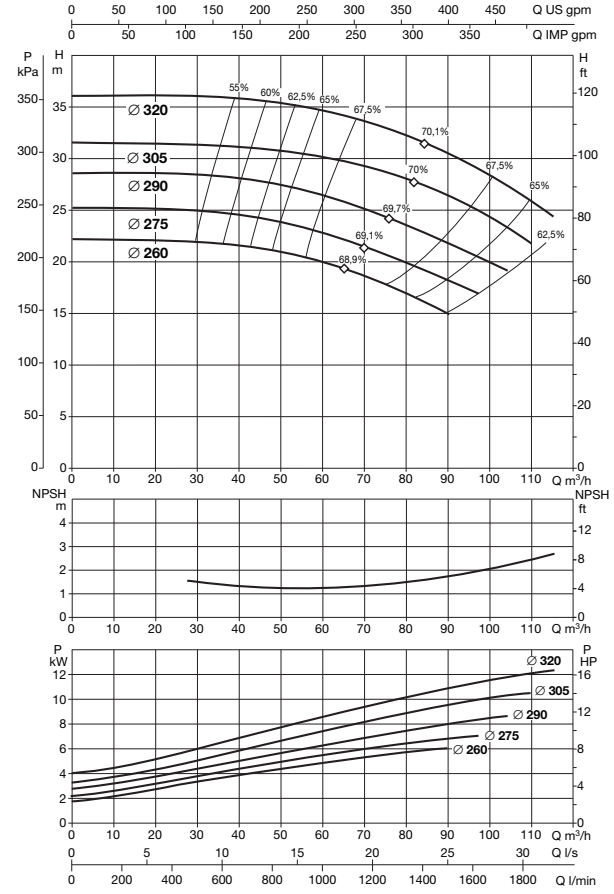


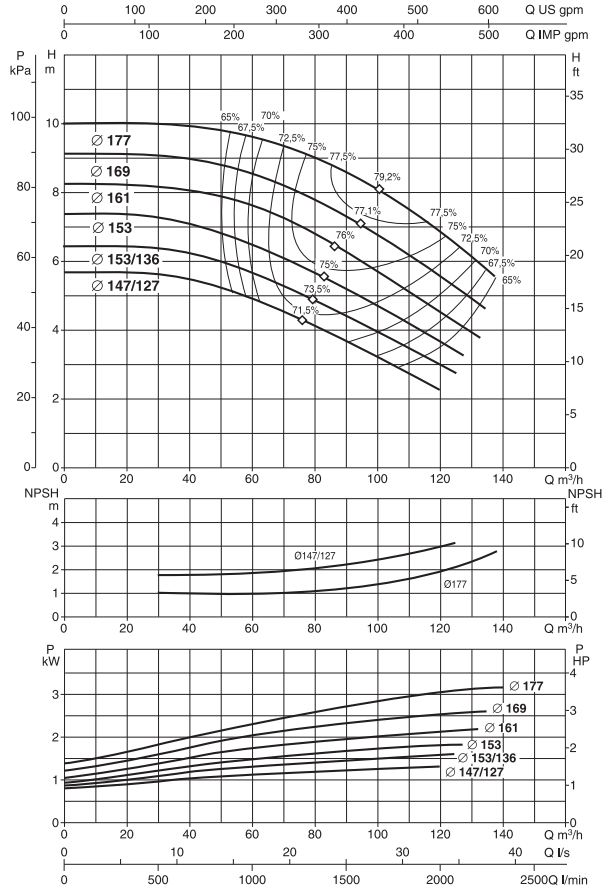
KDN 65-315

= 1450 1/min



KDN 80-160

= 1450 1/min



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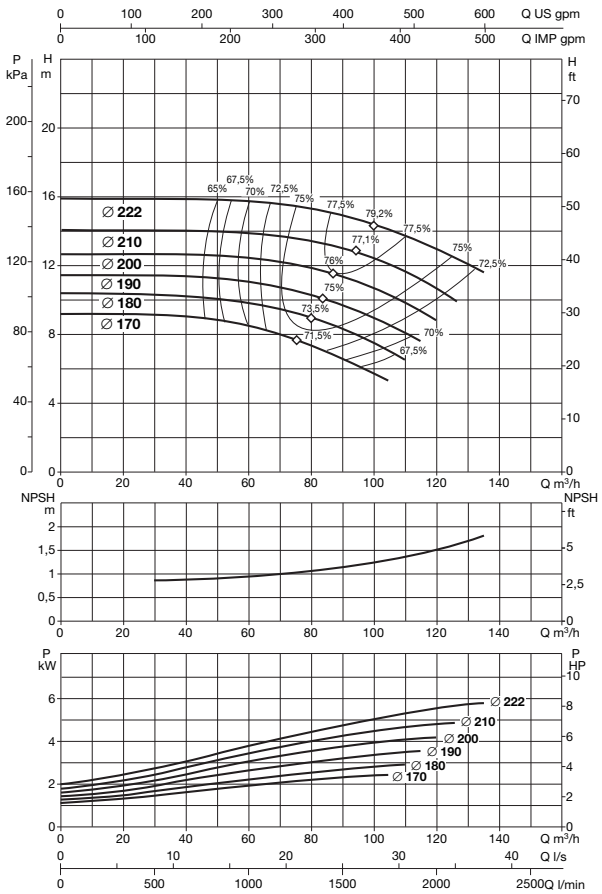
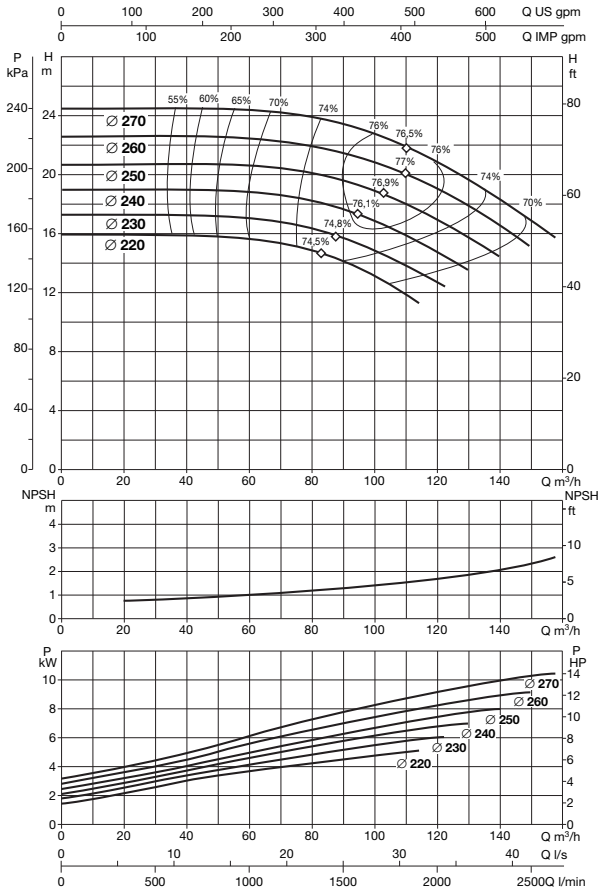
KDN 80-200

= 1450 1/min



KDN 80-250

= 1450 1/min



KDN 80-315

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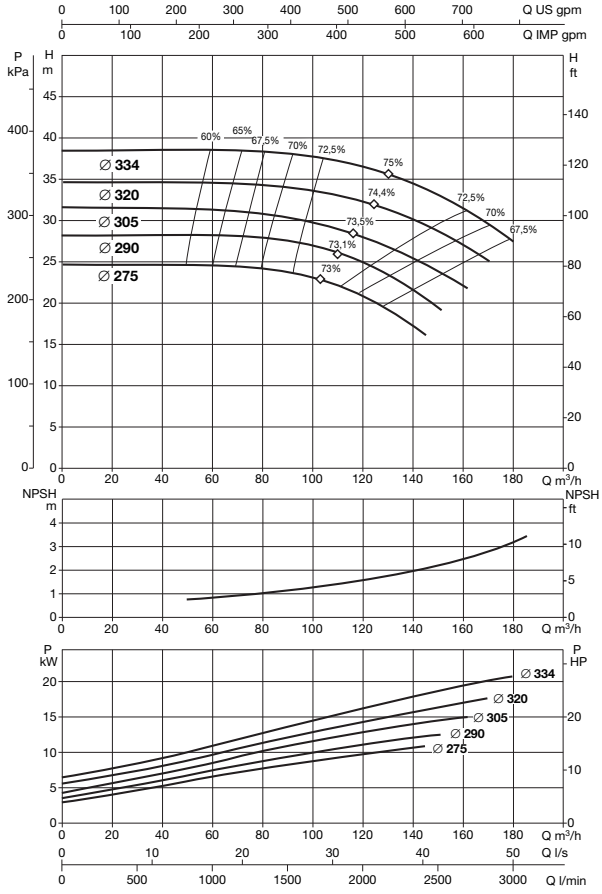

KDN 100-200

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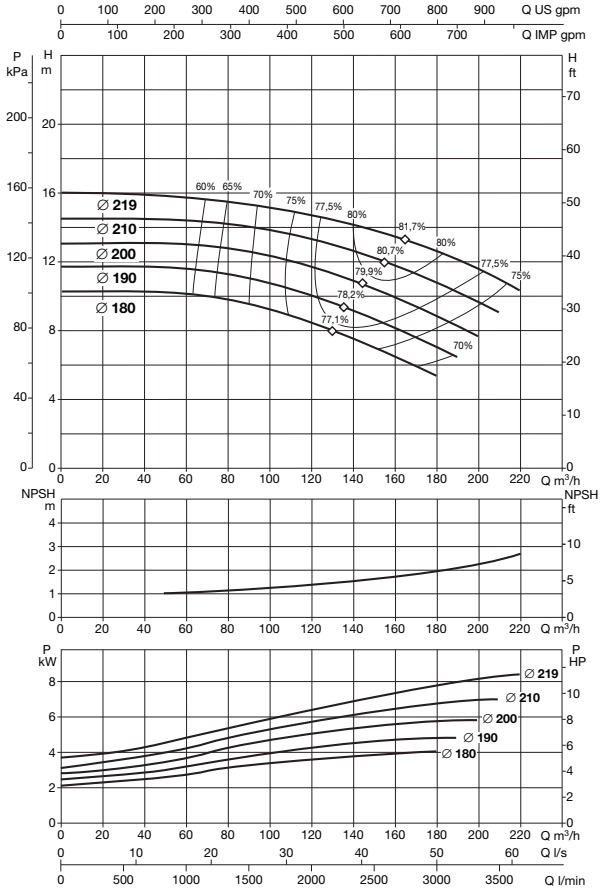
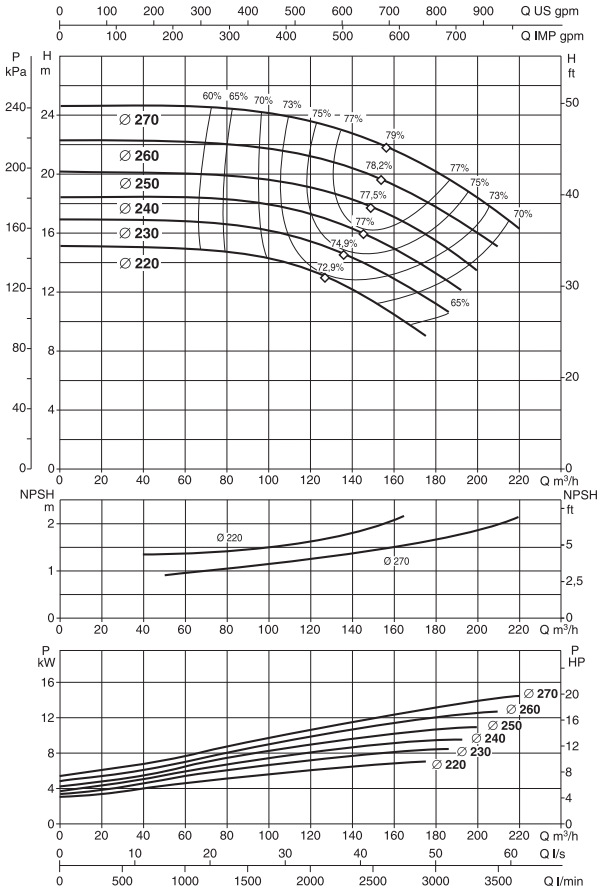


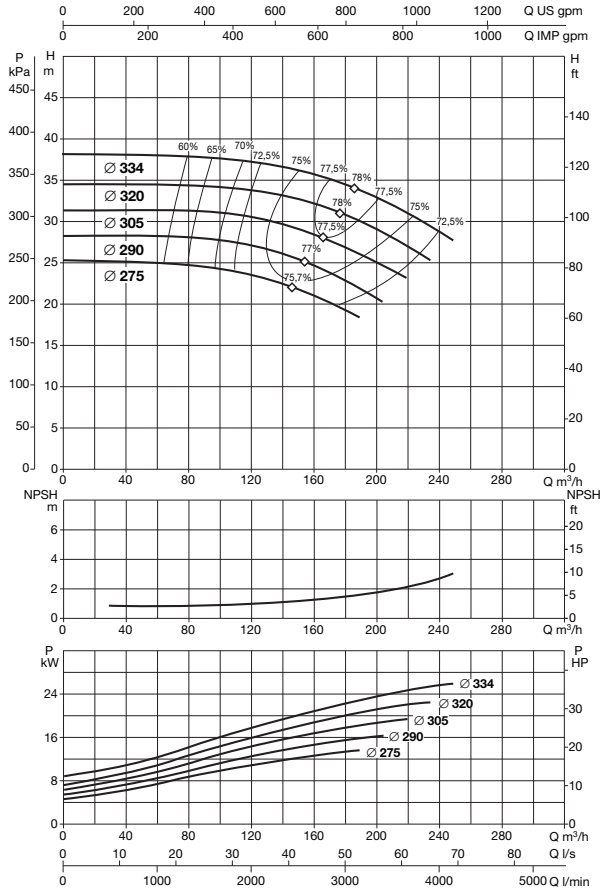
KDN 100-250

= 1450 1/min



KDN 100-315

= 1450 1/min



KDN 125-250

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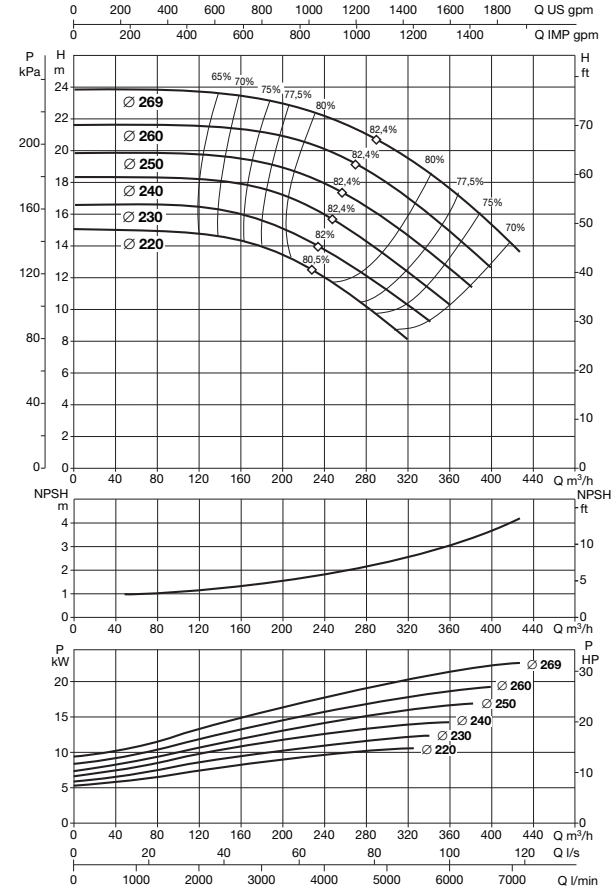

KDN 150-200

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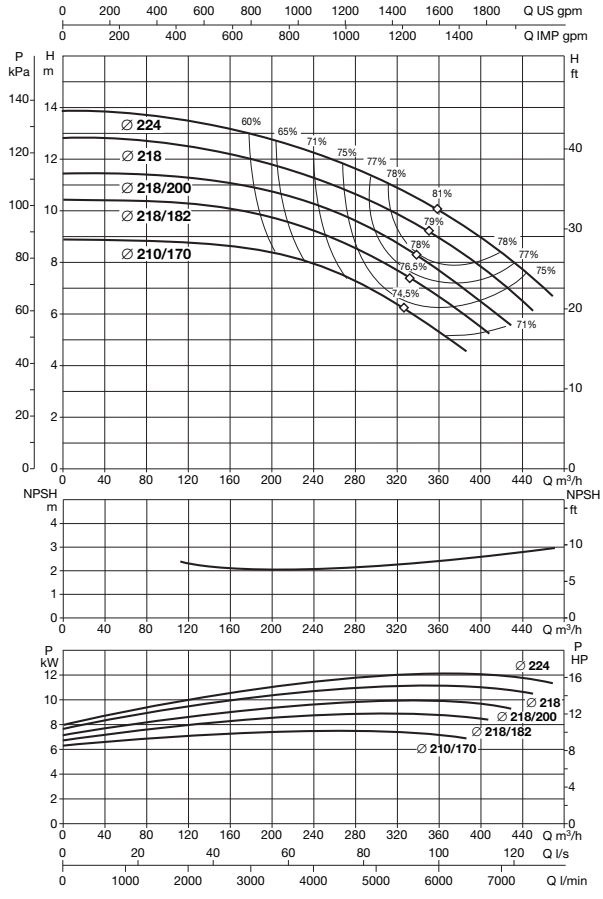

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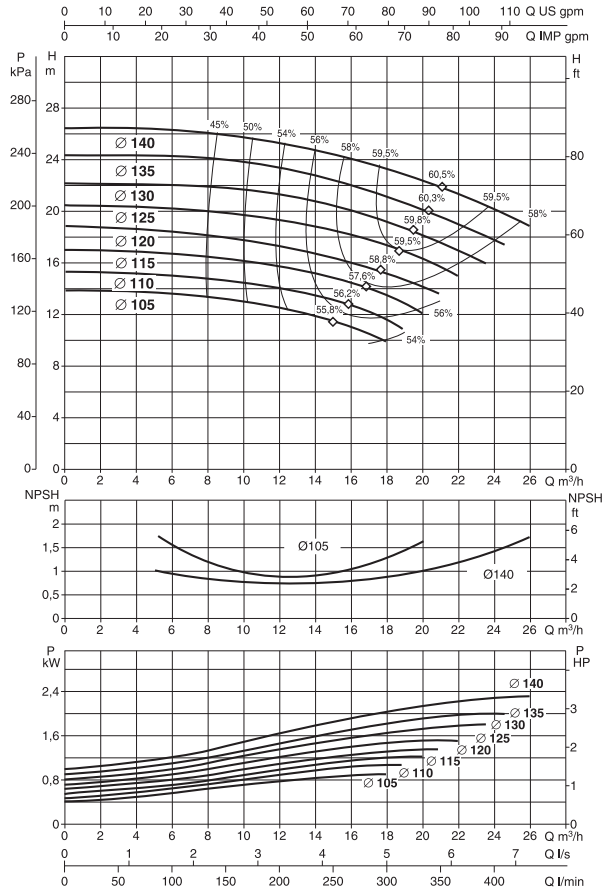
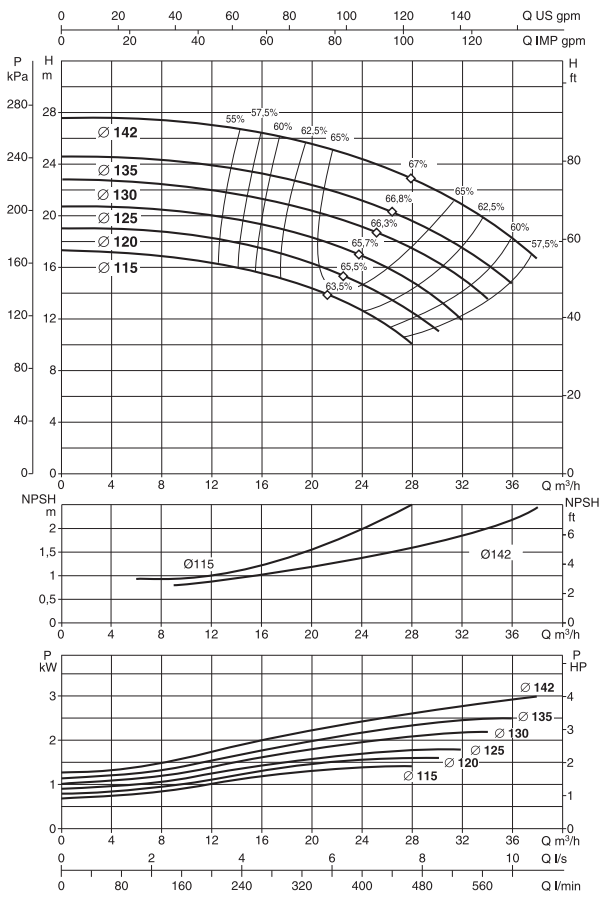
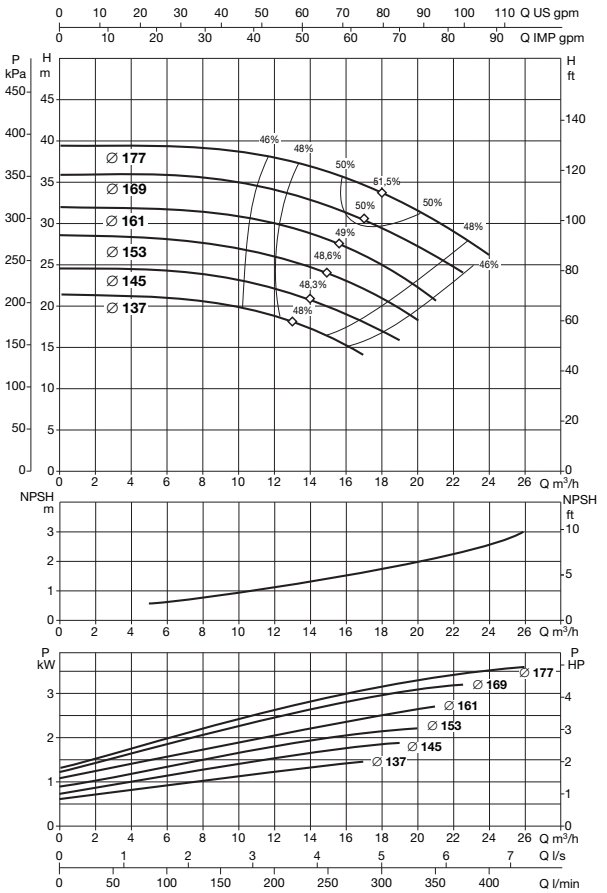
KDN 32-125.1 = 2900 1/min



KDN 32-125 = 2900 1/min



KDN 32-160.1 = 2900 1/min



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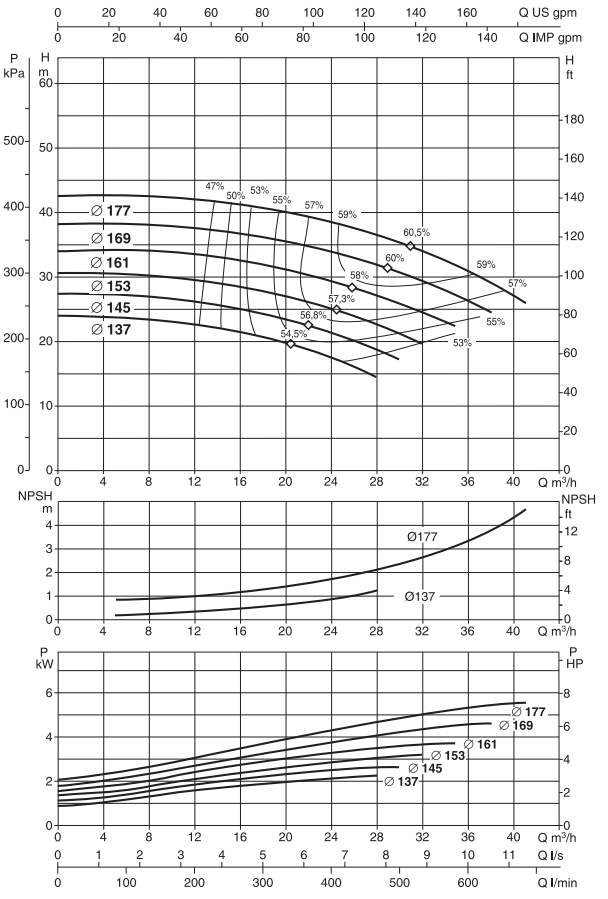

KDN 32-200.1

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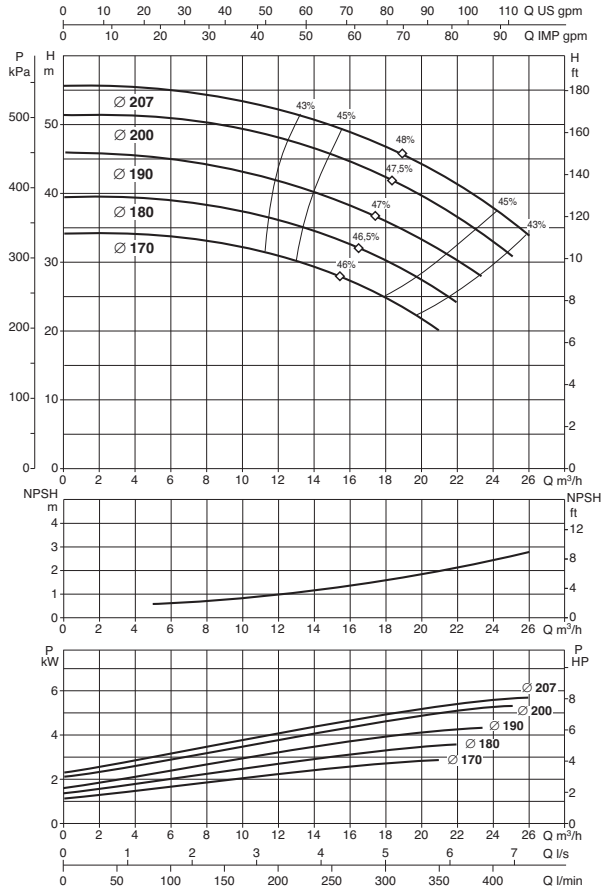

KDN 32-200

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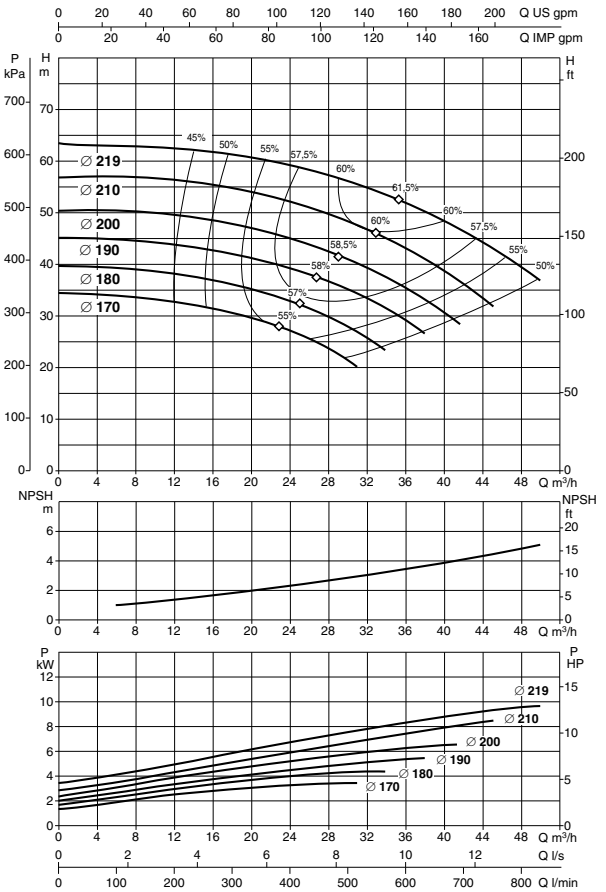
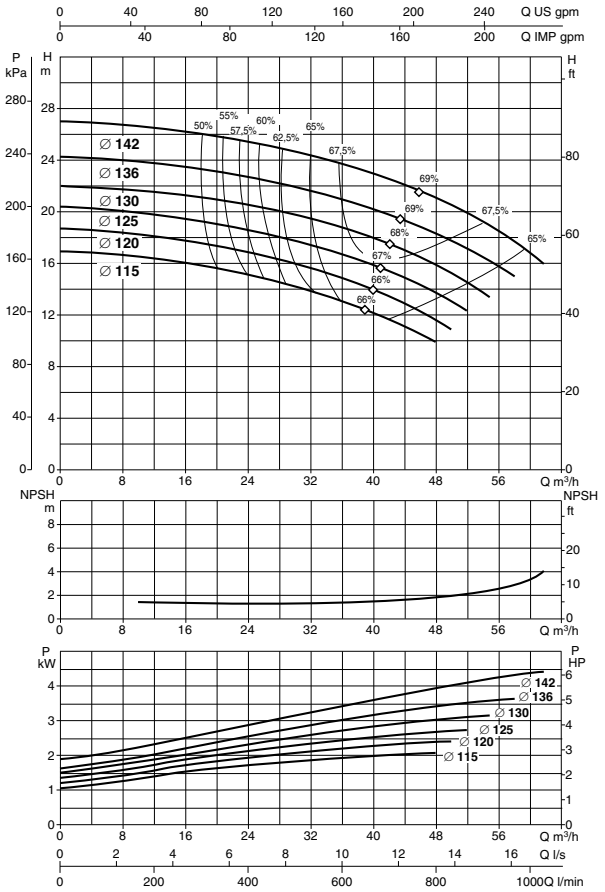


KDN 40-125

= 2900 1/min



KDN 40-160

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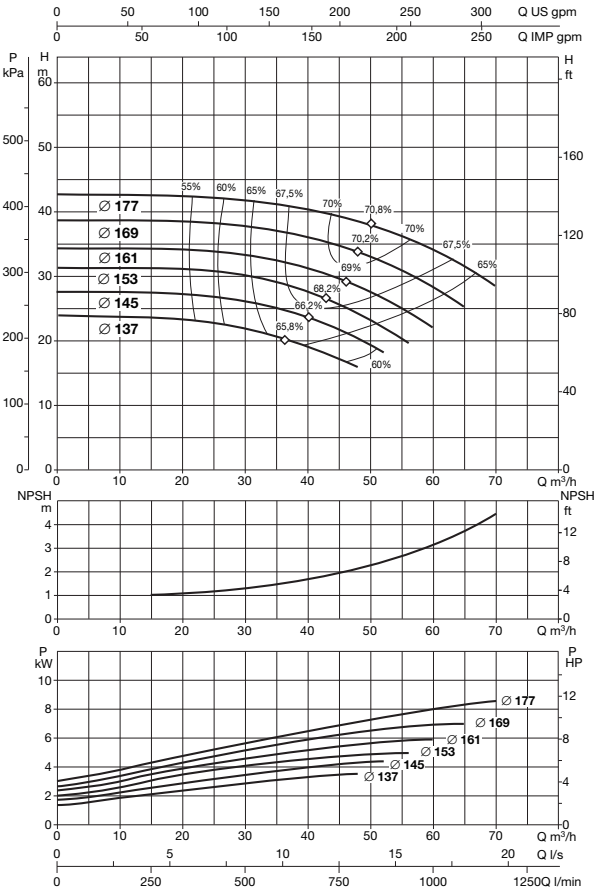

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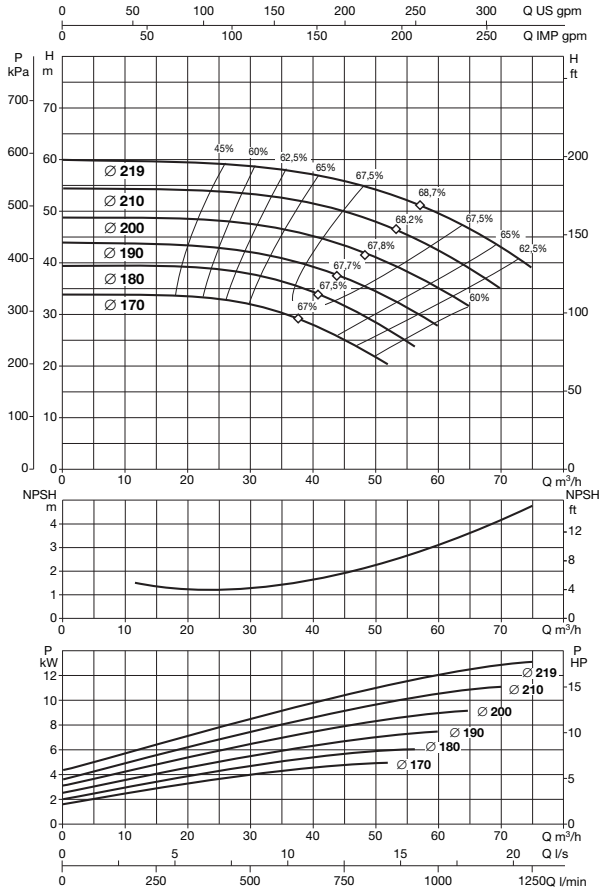
KDN 40-200

= 2900 1/min



KDN 40-250

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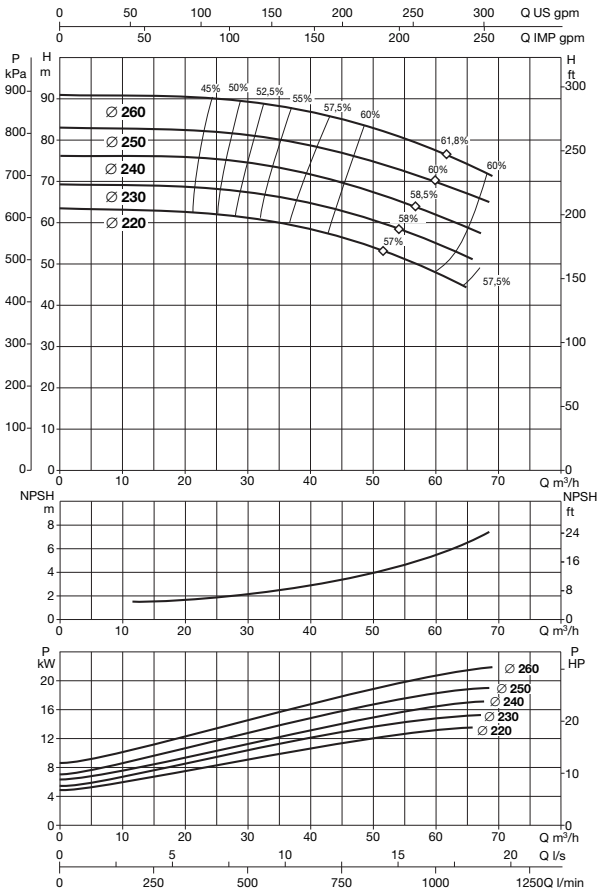
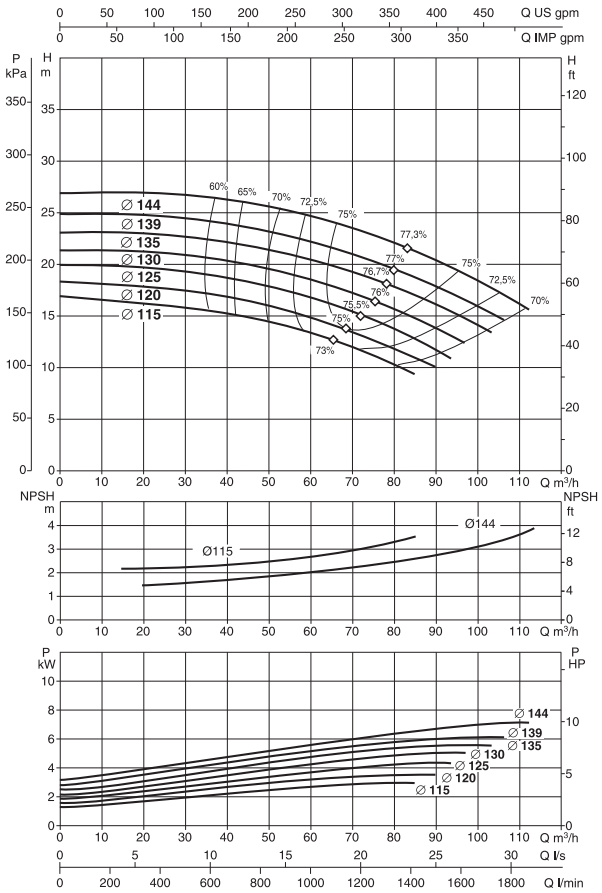


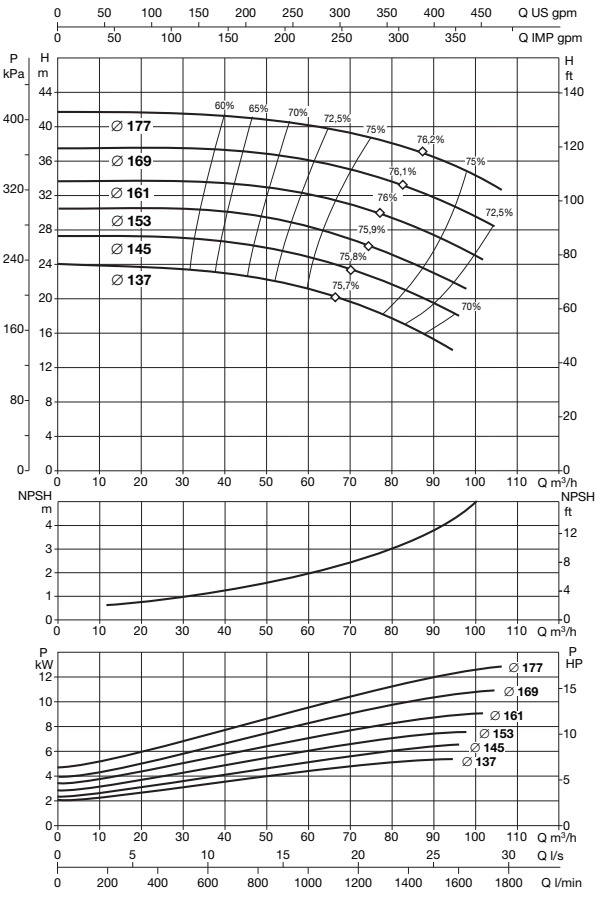
KDN 50-125

= 2900 1/min



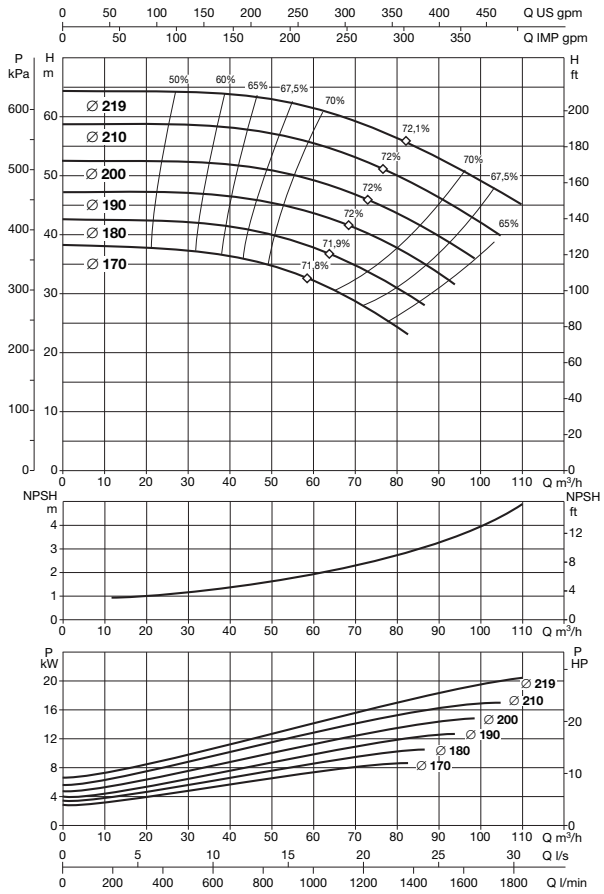
KDN 50-160

= 2900 1/min



KDN 50-200

= 2900 1/min



KDN 50-250

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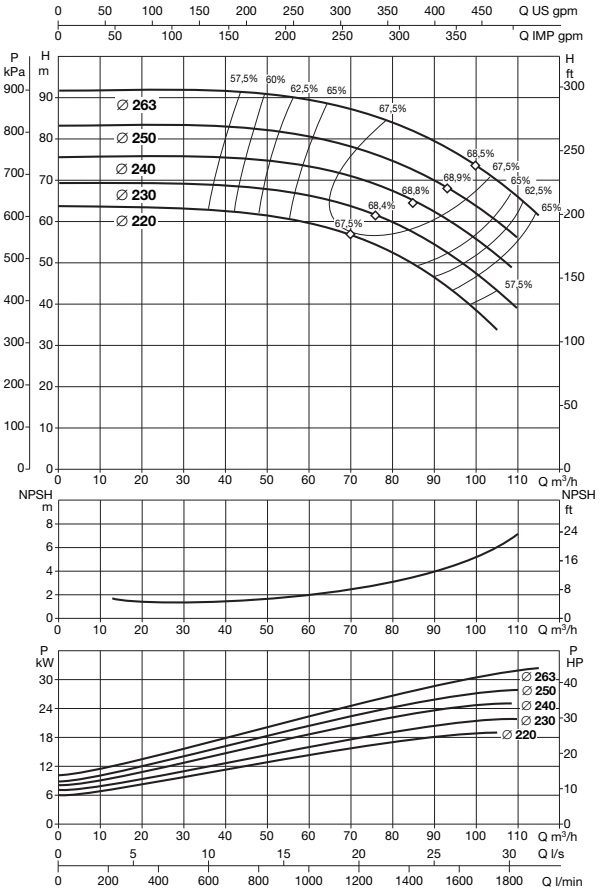
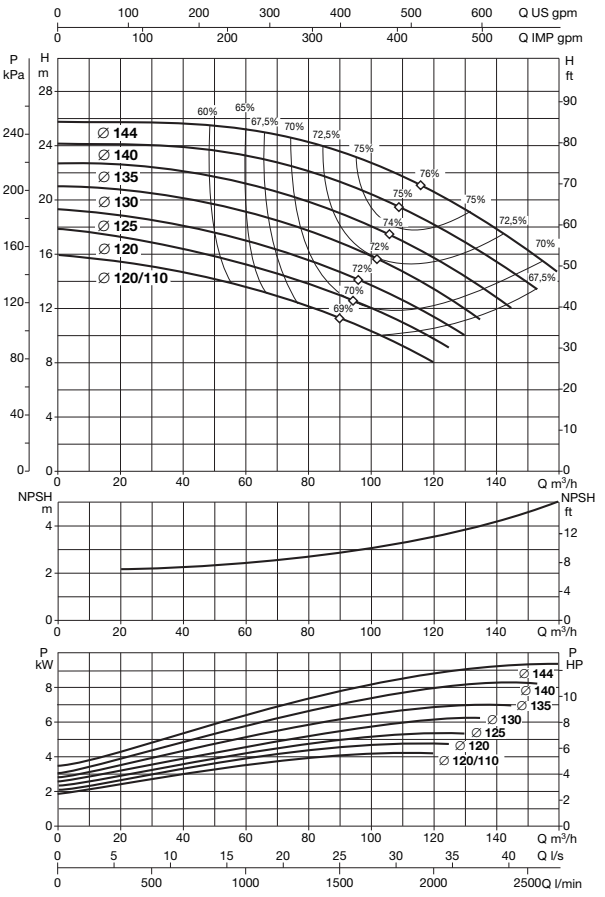


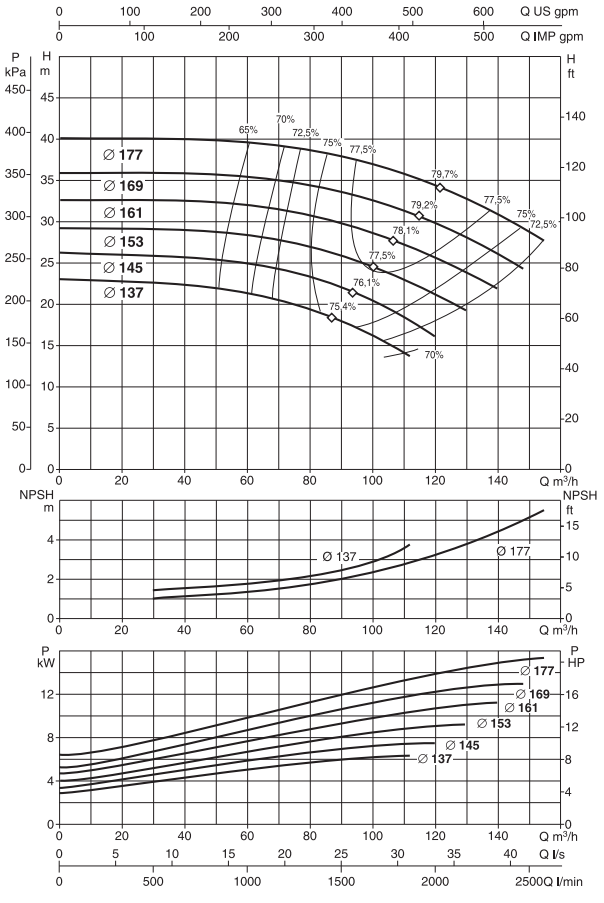
KDN 65-125

= 2900 1/min



KDN 65-160

= 2900 1/min



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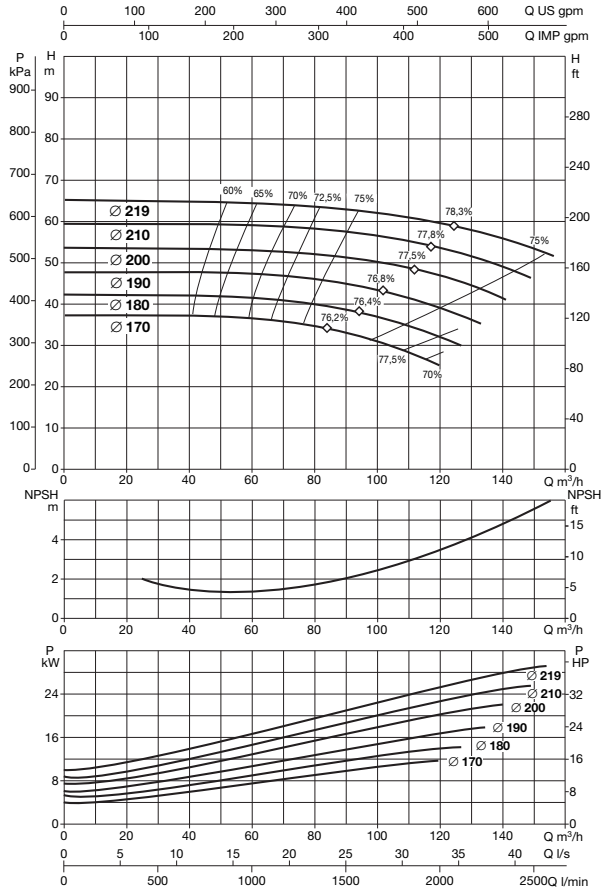
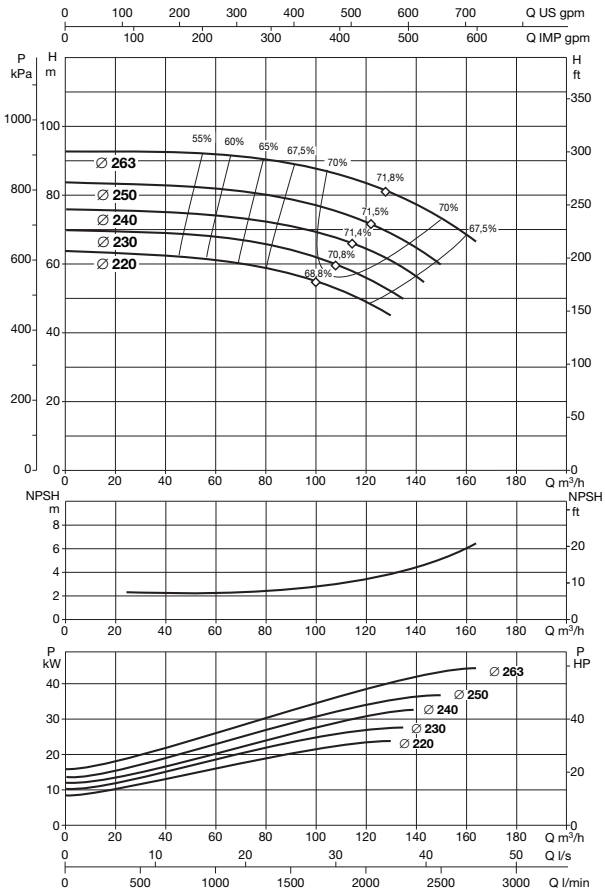
KDN 65-200

= 2900 1/min



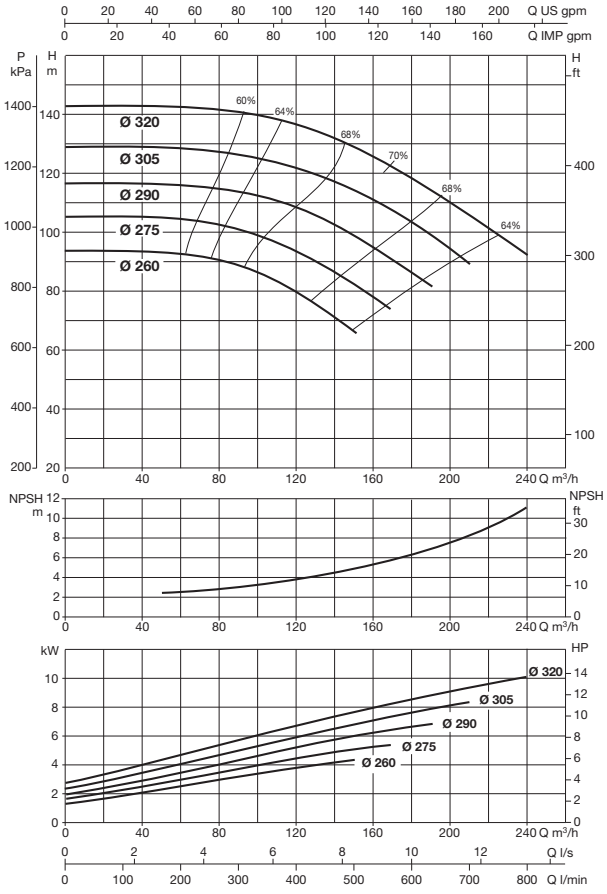
KDN 65-250

= 2900 1/min



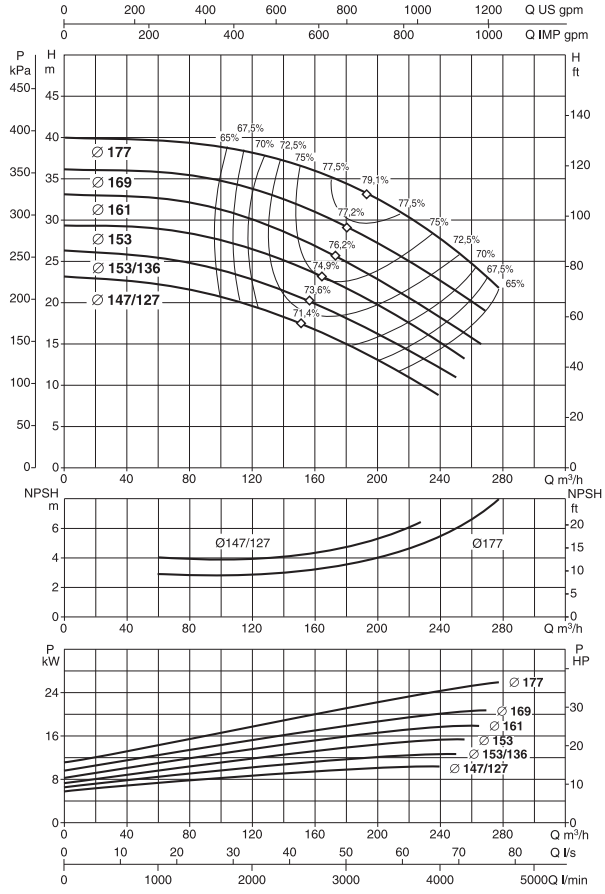
KDN 65-315

= 2900 1/min



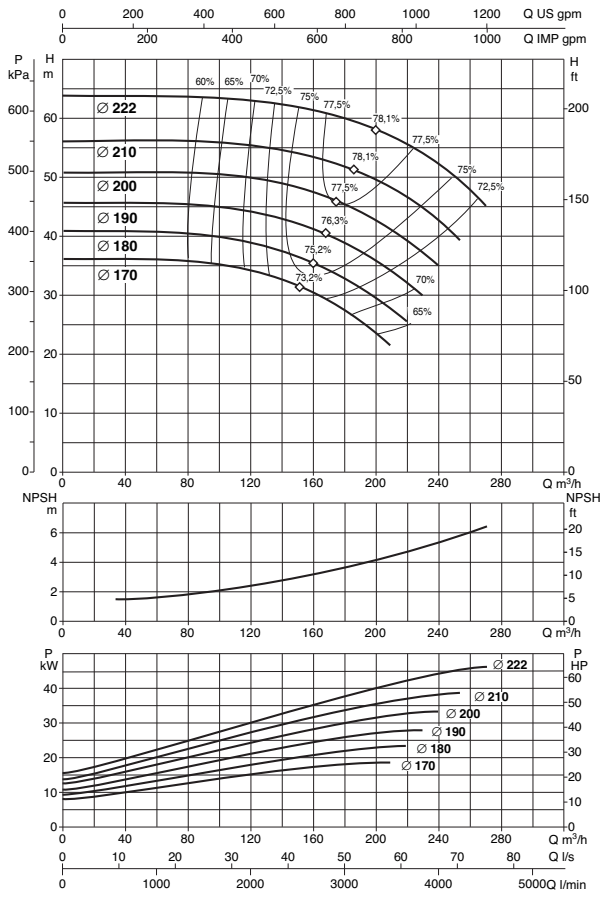
KDN 80-160

= 2900 1/min



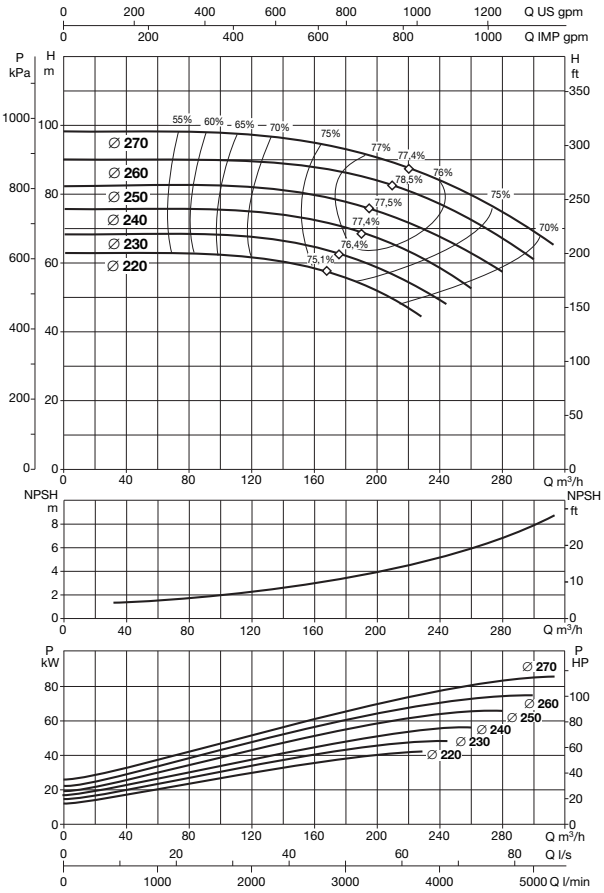
KDN 80-200

= 2900 1/min



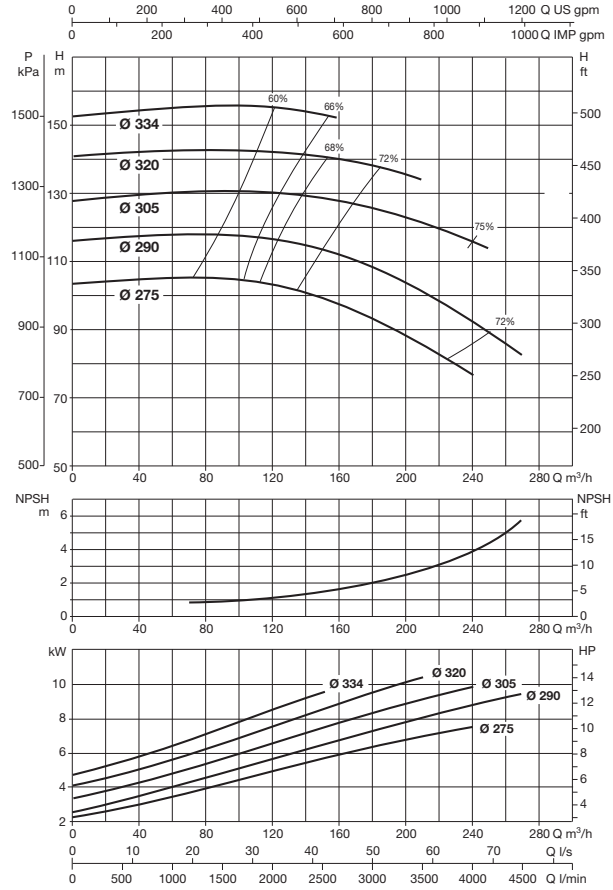
KDN 80-250

= 2900 1/min



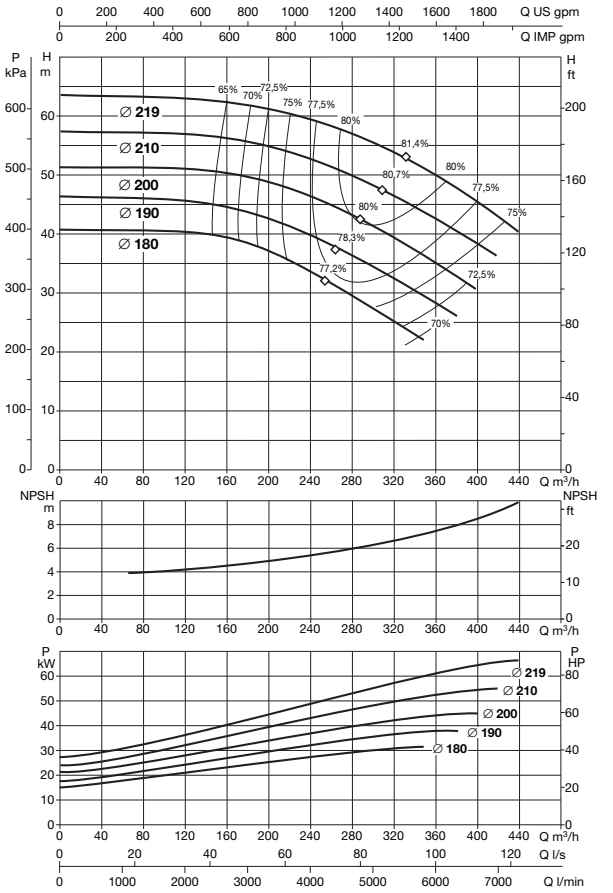
KDN 80-315

= 2900 1/min



KDN 100-200

= 2900 1/min



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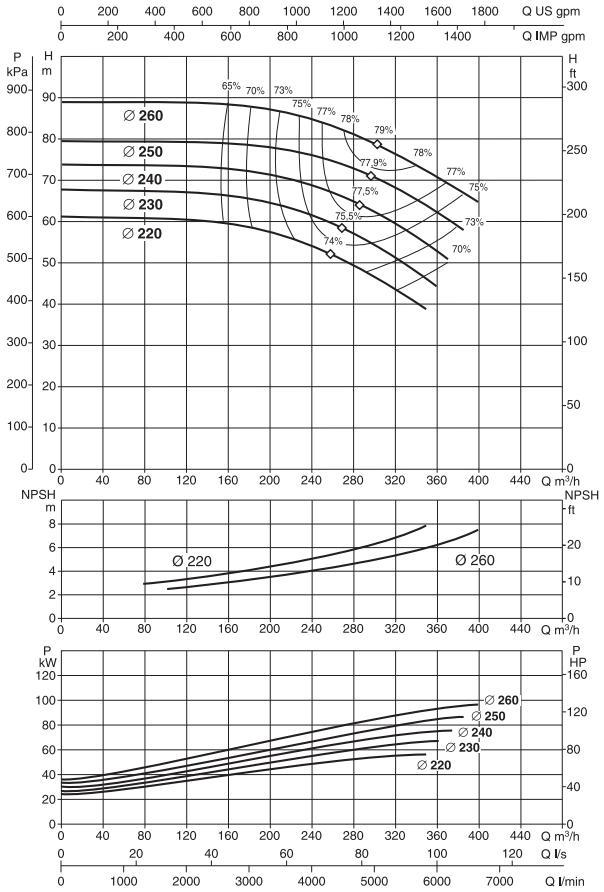
DAB PUMP PERFORMANCE

KDN 100-250

= 2900 1/min



COUNTERFLANGE KIT

Available on request separately from the pump.
The kit comprises intake and delivery counterflanges with the relative gaskets, screws and nuts required by the size of the pump to which it refers.

PARTS	COUNTERFLANGES AND GASKETS	THREADED	TO WELD	MATERIAL	PN
DIN 32	1 X DN 32 + 1 X DN 50	YES	YES	STEEL	16
DIN 40	1 X DN 40 + 1 X DN 65	YES	YES	STEEL	16
DIN 50	1 X DN 50 + 1 X DN 65	YES	YES	STEEL	16
DIN 65	1 X DN 65 + 1 X DN 80	NO	YES	STEEL	16
DIN 80	1 X DN 80 + 1 X DN 100	NO	YES	STEEL	16
DIN 100	1 X DN 100 + 1 X DN 125	NO	YES	STEEL	16
DIN 125	1 X DN 125 + 1 X DN 150	NO	YES	STEEL	16
DIN 150	1 X DN 150 + 1 X DN 200	NO	YES	STEEL	16 (10 X DN 200)
DIN 200	1 X DN 200 + 1 X DN 250	NO	YES	STEEL	16 (10 X DN 200)
DIN 250	1VDN 250 + 1 X DN 300	NO	YES	STEEL	16
DIN 300	1 X DN 300 + 1 X DN 350	NO	YES	STEEL	16

STANDARD MOTORS ELECTRICAL DATA

4 POLES (1500 r.p.m.)

MOTOR TYPE	Power kW	Speed r.p.m.	Efficiency %	Power factor Cos. φ	Supply voltage 50 Hz V~	Nominal current	Starting current Ia/In	Starting torque Ma/Mn	Maximum torque M/k/Mn
MEC 71	0,37	1340	67	0,78	3x230-400	1,70-0,975	4,75	2,84	2,64
MEC 80	0,55	1410	71	0,72	3x230-400	2,60-1,50	5,33	2,78	2,89
MEC 80	0,75	1400	73	0,75	3x230-400	3,30-1,90	5,37	2,9	2,79
MEC 90S	1,1	1390	76	0,8	3x230-400	4,35-2,50	5,92	3,08	2,73
MEC 90L	1,5	1400	78	0,79	3x230-400	6,00-3,45	5,82	3,04	2,81
MEC 100L	2,2	1430	81	0,84	3x230-400	7,95-4,60	6,87	2,35	2,86
MEC 100L	3	1440	83	0,78	3x400 ∅	6,7	7,87	3,25	3,53
MEC 112M	4	1440	84	0,84	3x400 ∅	8,1	7,57	2,85	3,16
MEC 132S	5,5	1450	86	0,85	3x400 ∅	10,6	7,37	2,38	2,93
MEC 132M	7,5	1450	87	0,85	3x400 ∅	14,4	7,24	2,47	2,89
MEC 160M	11	1540	88	0,86	3x400 ∅	20,8	7,39	2,67	2,76
MEC 160L	15	1450	89	0,89	3x400 ∅	27	7,36	2,52	2,66
MEC 180M	18,5	1470	90	0,89	3x400 ∅	33	7,48	2,44	3,02
MEC 180L	22	1470	90	0,89	3x400 ∅	39	8,15	2,67	3,14
MEC 200L	30	1470	91	0,89	3x400 ∅	52,5	7,26	2,93	3,24

2 POLES (3000 r.p.m.)

MOTOR TYPE	Power kW	Speed r.p.m.	Efficiency %	Power factor Cos. φ	Supply voltage 50 Hz V~	Nominal current	Starting current Ia/In	Starting torque Ma/Mn	Maximum torque M/k/Mn
MEC 80	0,75	2820	75	0,83	3x230-400	2,88-1,66	6,06	2,58	2,65
MEC 80	1,1	2820	76,2	0,84	3x230-400	4,00-2,30	6,61	2,4	2,4
MEC 90S	1,5	2820	78,5	0,83	3x230-400	5,75-3,30	7,5	3	2,94
MEC 90L	2,2	2830	81	0,85	3x230-400	7,90-4,55	7,23	3,1	2,85
MEC 100L	3	2860	82,6	0,87	3x400 ∅	5,90	7,53	2,67	3
MEC 112M	4	2890	84,2	0,87	3x400 ∅	7,80	7,67	2,64	3,16
MEC 132S	5,5	2910	85,7	0,88	3x400 ∅	10,4	7,91	2,55	3,27
MEC 132S	7,5	2900	87	0,89	3x400 ∅	13,6	7,78	2,3	3,15
MEC 160M	11	2930	88,4	0,9	3x400 ∅	19,6	6,57	2,37	2,83
MEC 160M	15	2940	89,4	0,9	3x400 ∅	26,5	6,55	2,6	2,89
MEC 160L	18,5	2940	90	0,9	3x400 ∅	33,0	7,23	2,82	3,17
MEC 180M	22	2940	90,5	0,9	3x400 ∅	39,0	7,41	2,48	3,08
MEC 200L	30	2950	91,4	0,88	3x400 ∅	53,5	7,15	2,32	3,05
MEC 200L	37	2970	92	0,89	3x400 ∅	64,5	7,87	2,61	3,25
MEC 225M	45	2960	92,5	0,89	3x400 ∅	78,0	7,92	2,54	3,19
MEC 250M	55	2980	93	0,9	3x400 ∅	94,5	6,17	1,86	2,66
MEC 280S	75	2980	93,6	0,88	3x400 ∅	128	6,61	2,27	3,16
MEC 280M	90	2980	93,9	0,89	3x400 ∅	160	7,13	2,58	3,34
MEC 315S	110	2980	94	0,89	3x400 ∅	188	6,18	2,03	3,05

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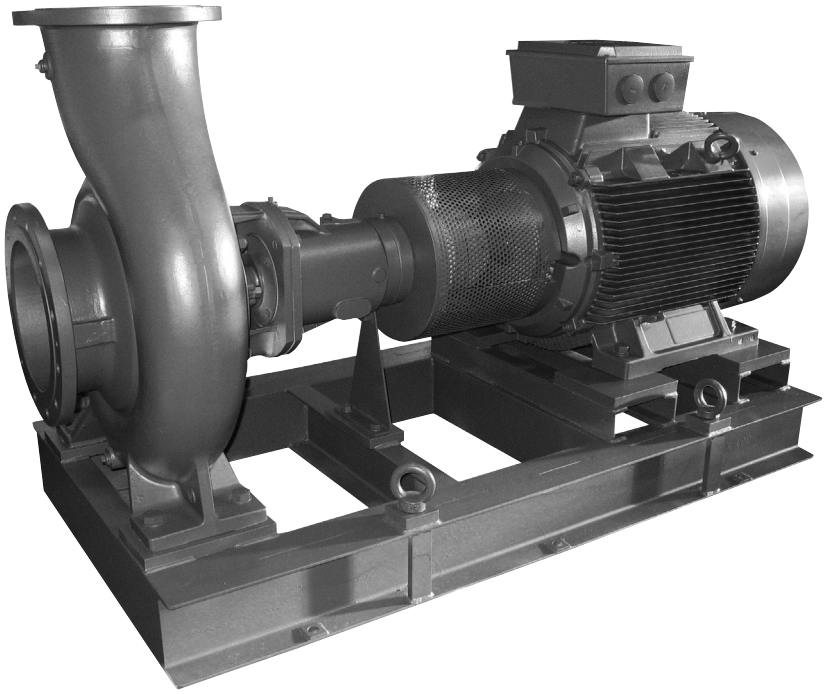
KDN

STANDARDISED CENTRIFUGAL PUMPS
BARE SHAFT ON BASEPLATE WITH MOTOR AND COUPLING



CE

GENERAL DATA

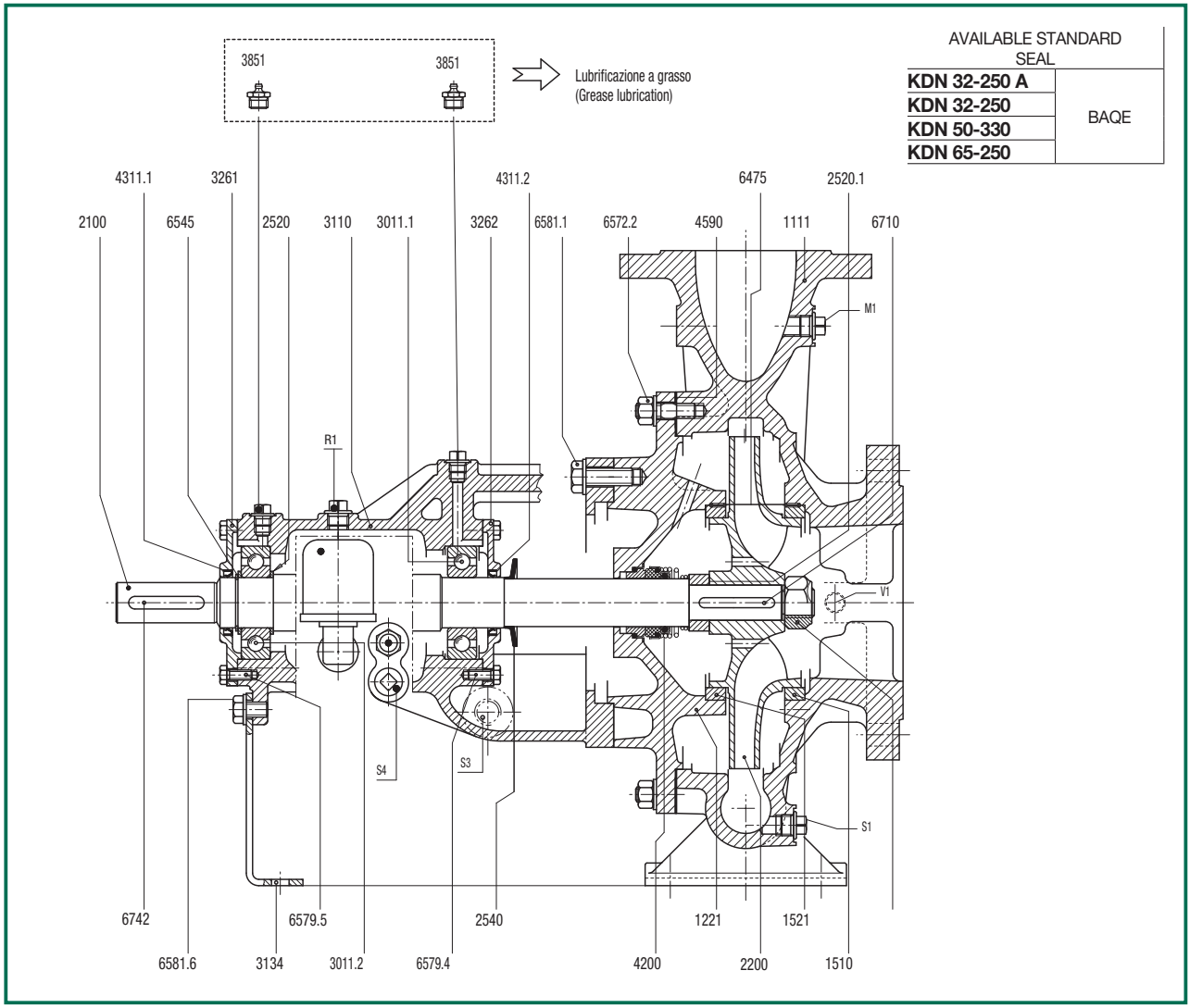
Applications

Enbloc, centrifugal motor-driven pumps with coupling designed for a wide range of applications such as:
- District heating
- Water supply
- Airconditioning
- Cooling plants
- Industry
- Fire fighting
- Environment engineering

Constructional features of the pump

Non self-priming single-stage centrifugal pump body with axial suction port, radial discharge port and horizontal shaft components, according to ISO 2858/DIN 24256.
The KDN pumps have PN 16 dimensions and nominal performances.
The suction and discharge flanges are according to EN 7005 PN 10 or 16. All pumps are dynamically balanced according to ISO 1940 class 6.3 and impellers are hydraulically balanced.
Pump and motor are mounted on a common baseplate in accordance with EN 23 661 in all-welded steel. Oversizes have profile base frames.
Due to the pump design the complete bearing assembly including impeller and shaft seal can be dismantled without removing the pump body from the pipe system (back-pull-out design).

TECHNICAL DATA



AVAILABLE STANDARD SEAL	
KDN 32-250 A	BAQE
KDN 32-250	
KDN 50-330	
KDN 65-250	

KDN 32-250 A / KDN 32-250 / KDN 50-330 / KDN 65-250

N.	PARTS	MATERIALS		N.	PARTS	MATERIALS
1111	PUMP CASING	CAST IRON GG25		4590	JOINT FOR CASING COVER	NONAM
1221	COVER	CAST IRON GG25		6475	DOWEL	STEEL 8.8
1510	WEAR RING SUCTION SIDE	CAST IRON GG25		6545	CIRCLIP FOR SHAFT	STEEL
1521	WEAR RING IN CASING COVER	CAST IRON GG25		6572.2	STUD BOLD + WASHER + NUT	STEEL
2100	SHAFT	AISI 420		6579.4	SCREW	STEEL 8.8
2200	IMPELLER	CAST IRON GG25 CAST IRON GS400	CAST IRON GS400 STEEL CF8M	6579.5	SCREW	STEEL 8.8
2520	SHOULDER RING	STEEL		6581.1	SCREW + WASHER	STEEL 8.8
2520.1	SHOULDER RING	STEEL		6581.6	SCREW + WASHER	STEEL 8.8
2540	THROWER	RUBBER		6710	KEY FOR IMPELLER	STEEL
2912	IMPELLER NUT	CAST IRON GG25		6742	KEY FOR COUPLING	STEEL
3011.1	BALL BEARING	NA		M1	CONNECTION PRESSURE GAUGE	
3011.2	BALL BEARING	NA		R1	OIL FILLING	
3110	SUPPORT	CAST IRON GG25		S1	PUMP DRAIN PLUG	
3134	SUPPORT FOOT	STEEL		S3	MECH. SEAL / PACKING DRAIN CONNECTION	
3261	BEARING COVER, DRIVE SIDE	CAST IRON GG25		S4	OIL DRAIN PLUG	
3262	BEARING COVER, PUMP SIDE	CAST IRON GG25		V1	VACUUM GAUGE CONNECTION	
4200	MECHANICAL SEAL	CARBON / SILICON CARBIDE				
4311.1	RADIAL SEAL RING	NBR			**GREASE LUBRICATION**	
4311.2	RADIAL SEAL RING	NBR		3851	GREASE CUP	

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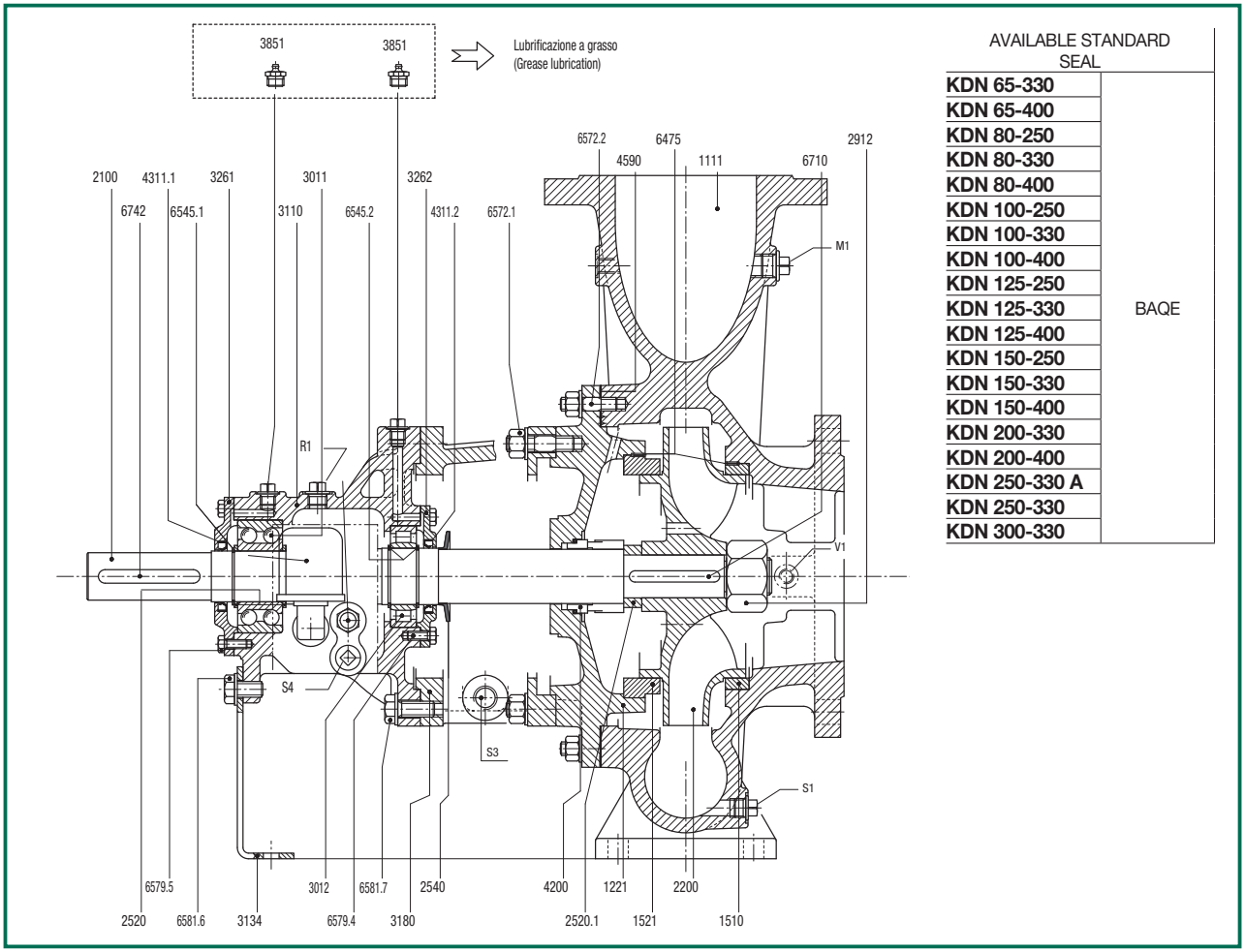
TECHNICAL DATA



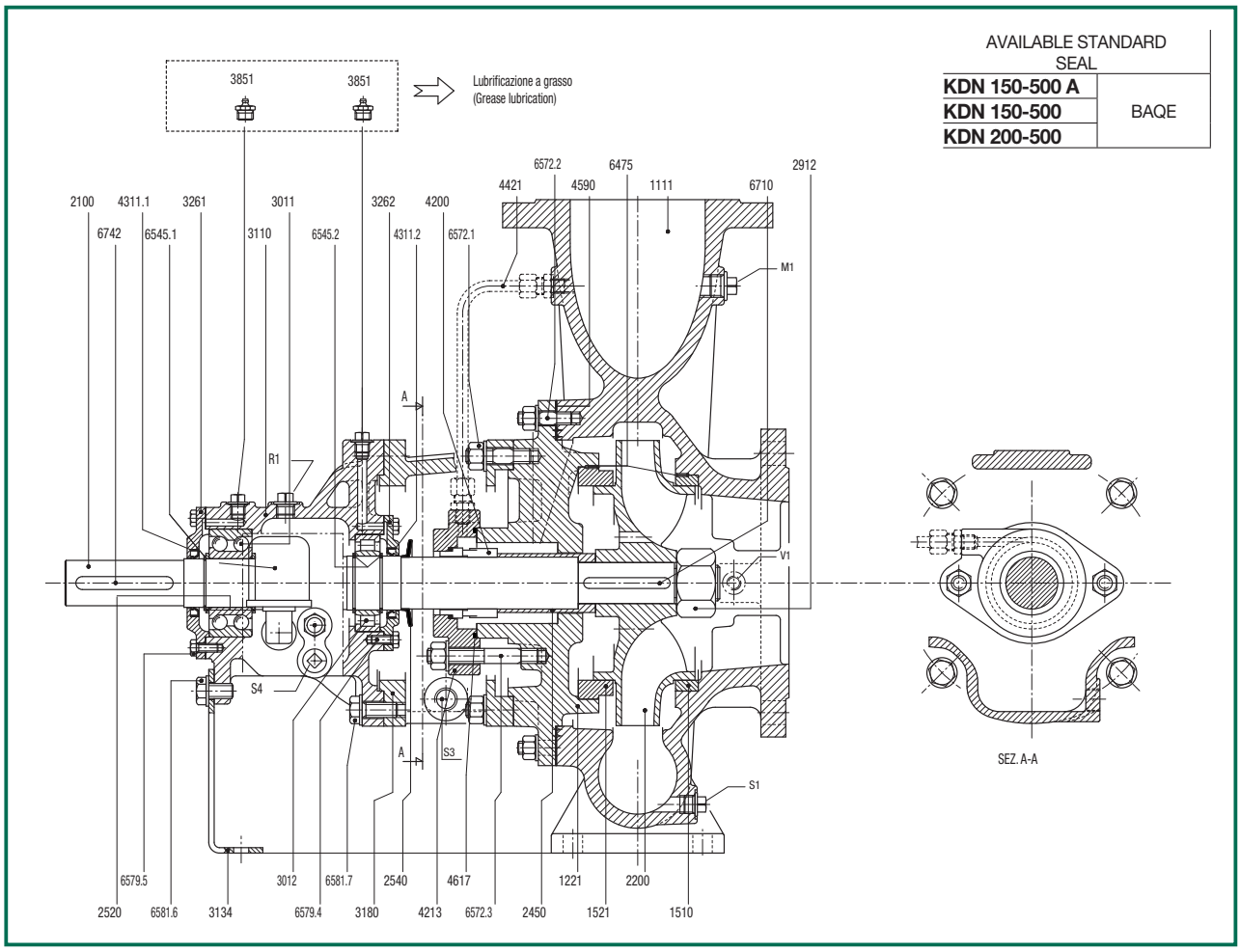
AVAILABLE STANDARD SEAL	
KDN 65-330	BAQE
KDN 65-400	
KDN 80-250	
KDN 80-330	
KDN 80-400	
KDN 100-250	
KDN 100-330	
KDN 100-400	
KDN 125-250	
KDN 125-330	
KDN 125-400	
KDN 150-250	
KDN 150-330	
KDN 150-400	
KDN 200-330	
KDN 200-400	
KDN 250-330 A	
KDN 250-330	
KDN 300-330	

KDN 65-330 / KDN 65-400 / KDN 80-250 / KDN 80-330 / KDN 80-400 / KDN 100-250 KDN 100-330 / KDN 100-400 / KDN 125-250 / KDN 125-330 / KDN 125-400 KDN 150-250 / KDN 150-330 / KDN 150-400 / KDN 200-330 / KDN 200-400 KDN 250-330 A / KDN 250-330 / KDN 300-330

N.	PARTS	MATERIALS
1111	PUMP CASING	CAST IRON GG25
1221	COVER	CAST IRON GG25
1510	WEAR RING SUCTION SIDE	CAST IRON GG25
1521	WEAR RING IN CASING COVER	CAST IRON GG25
2100	SHAFT	AISI 420
2200	IMPELLER	CAST IRON GG25 / CAST IRON GS400 / CAST IRON GS400 / STEEL CF8M / CAST IRON GG25
2520	SHOULDER RING	STEEL
2520.1	SHOULDER RING	STEEL
2540	THROWER	RUBBER
2912	IMPELLER NUT	CAST IRON GG25
3011	BALL BEARING	NA
3012	RADIAL ROLLER BEARING	NA
3110	SUPPORT	CAST IRON GG25
3134	SUPPORT FOOT	STEEL
3180	LANTERN	CAST IRON GG25
3261	BEARING COVER, DRIVE SIDE	CAST IRON GG25
3262	BEARING COVER, PUMP SIDE	CAST IRON GG25
4200	MECHANICAL SEAL	CARBON / SILICON CARBIDE
4311.1	RADIAL SEAL RING	NBR
4311.2	RADIAL SEAL RING	NBR

N.	PARTS	MATERIALS
4590	JOINT FOR CASING COVER	NONAM
6475	DOWEL	STEEL 8.8
6545.1	CIRCLIP FOR SHAFT	STEEL
6545.2	CIRCLIP FOR SHAFT	STEEL
6572.1	STUD BOLD + WASHER + NUT	STEEL
6572.2	STUD BOLD + WASHER + NUT	STEEL
6579.4	SCREW	STEEL 8.8
6579.5	SCREW	STEEL 8.8
6581.6	SCREW + WASHER	STEEL 8.8
6581.7	SCREW + WASHER	STEEL 8.8
6710	KEY FOR IMPELLER	STEEL
6742	KEY FOR COUPLING	STEEL
M1	CONNECTION PRESSURE GAUGE	
R1	OIL FILLING	
S1	PUMP DRAIN PLUG	
S3	MECH. SEAL / PACKING DRAIN CONNECTION	
V1	VACUUM GAUGE CONNECTION	
	GREASE LUBRICATION	
3851	GREASE CUP	

TECHNICAL DATA



AVAILABLE STANDARD SEAL	
KDN 150-500 A	BAQE
KDN 150-500	
KDN 200-500	

KDN 150-500 A / KDN 150-500 / KDN 200-500

N.	PARTS	MATERIALS
1111	PUMP CASING	CAST IRON GG25
1221	COVER	CAST IRON GG25
1510	WEAR RING SUCTION SIDE	CAST IRON GG25
1521	WEAR RING IN CASING COVER	CAST IRON GG25
2100	SHAFT	AISI 420
2200	IMPELLER	CAST IRON GG25
2450	SHAFT SLEEVE	AISI 303
2520	SHOULDER RING	STEEL
2540	THROWER	RUBBER
2912	IMPELLER NUT	CAST IRON GG25
3011	BALL BEARING	NA
3012	RADIAL ROLLER BEARING	NA
3110	SUPPORT	CAST IRON GG25
3134	SUPPORT FOOT	STEEL
3180	LANTERN	CAST IRON GG25
3261	BEARING COVER, DRIVE SIDE	CAST IRON GG25
3262	BEARING COVER, PUMP SIDE	CAST IRON GG25
4200	MECHANICAL SEAL	CARBON / SILICON CARBIDE
4213	CARRIER FOR MECHANICAL SEAL	CAST IRON GS400
4311.1	RADIAL SEAL RING	NBR
4311.2	RADIAL SEAL RING	NBR

N.	PARTS	MATERIALS
4421	PIPE	AISI 316
4590	JOINT FOR CASING COVER	NONAM
4617	O-RING	NBR
6475	DOWEL	STEEL 8.8
6545.1	CIRCLIP FOR SHAFT	STEEL
6545.2	CIRCLIP FOR SHAFT	STEEL
6572.1	STUD BOLD + WASHER + NUT	STEEL
6572.2	STUD BOLD + WASHER + NUT	STEEL
6572.3	STUD BOLD + WASHER + NUT	STEEL
6579.4	SCREW	STEEL 8.8
6579.5	SCREW	STEEL 8.8
6581.6	SCREW	STEEL 8.8
6710	SCREW + WASHER	STEEL
6742	KEY FOR IMPELLER	STEEL
M1	CONNECTION PRESSURE GAUGE	
R1	OIL FILLING	
S1	PUMP DRAIN PLUG	
S3	MECH. SEAL / PACKING DRAIN CONNECTION	
V1	VACUUM GAUGE CONNECTION	
	GREASE LUBRICATION	
3851	GREASE CUP	

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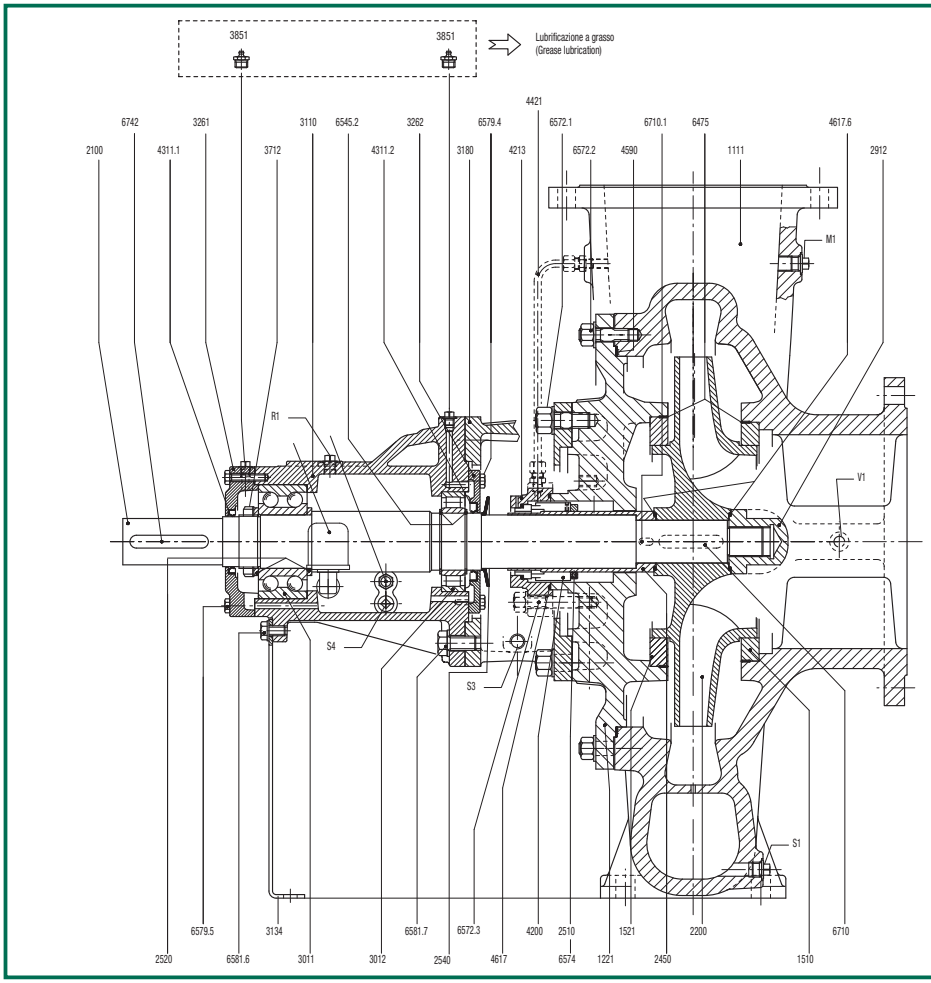
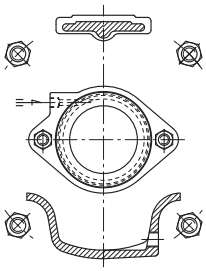
TECHNICAL DATA



AVAILABLE STANDARD SEAL	
KDN 250-400	CUCE
KDN 250-500 A	DUCE
KDN 250-500	DUCE
KDN 300-400 A	CUCE
KDN 300-400 M	CUCE
KDN 300-400	CUCE
KDN 350-500 A	DUCE
KDN 350-500	DUCE



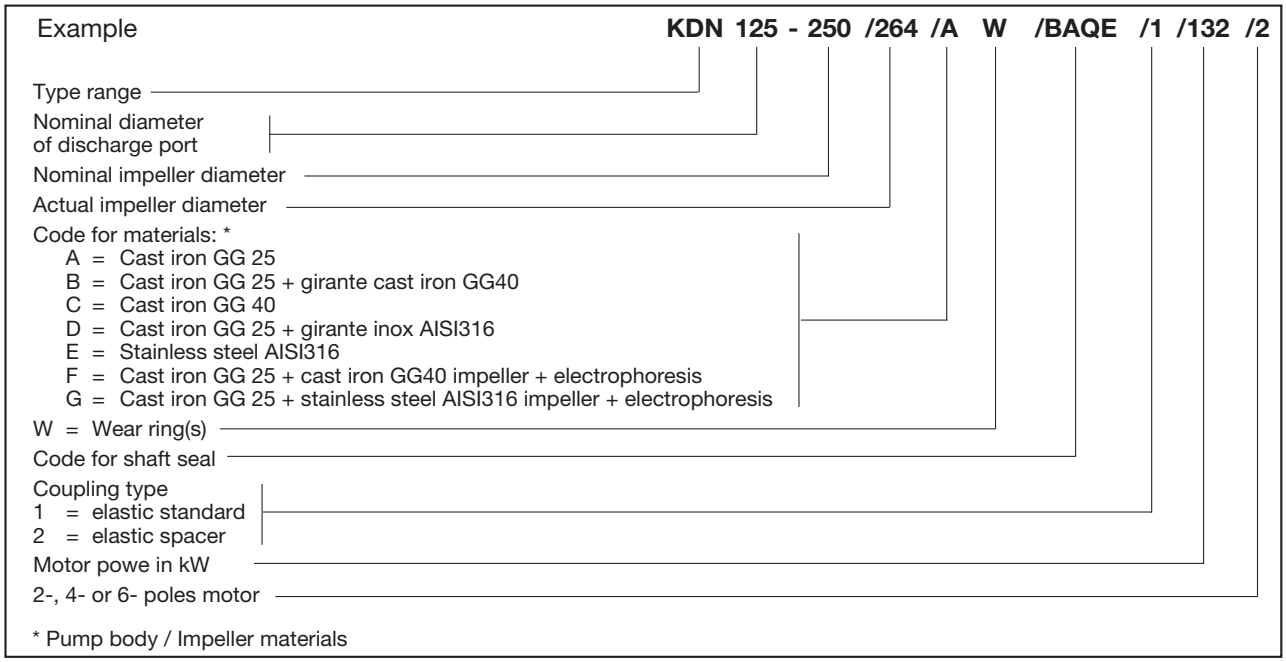
KDN 250-400 / KDN 250-500 A / KDN 250-500 / KDN 300-400 A / KDN 300-400 M KDN 300-400 / KDN 350-500 A / KDN 350-500

N.	PARTS	MATERIALS	
1111	PUMP CASING	CAST IRON GG25	CAST IRON GS400
1221	COVER	CAST IRON GG25	CAST IRON GS400
1510	WEAR RING SUCTION SIDE	CAST IRON GG25	
1521	WEAR RING IN CASING COVER	CAST IRON GG25	
2100	SHAFT	AISI 420	
2200	IMPELLER	CAST IRON GG25	
2450	SHAFT SLEEVE	AISI 303	
2510	SPACER RING	CAST IRON GG25	
2520	SHOULDER RING	STEEL	
2540	THROWER	RUBBER	
2912	IMPELLER NUT	CAST IRON GG25	
3011	BALL BEARING	NA	
3012	RADIAL ROLLER BEARING	NA	
3110	SUPPORT	CAST IRON GG25	
3134	SUPPORT FOOT	STEEL	
3180	LANTERN	CAST IRON GG25	
3261	BEARING COVER, DRIVE SIDE	CAST IRON GG25	
3262	BEARING COVER, PUMP SIDE	CAST IRON GG25	
3712	BEARING NUT	STEEL	
4200	MECHANICAL SEAL	TUNGSTEN CARBIDE / CARBON	
4213	CARRIER FOR MECHANICAL SEAL	CAST IRON GS400	
4311.1	RADIAL SEAL RING	NBR	
4311.2	RADIAL SEAL RING	NBR	
4421	PIPE	AISI 316	
4590	JOINT FOR CASING COVER	NONAM	GRAPHITE

N.	PARTS	MATERIALS
4617	O-RING	NBR
4617.6	O-RING	NBR
6475	DOWEL	STEEL 8.8
6545.2	CIRCLIP FOR SHAFT	STEEL
6572.1	STUD BOLD + WASHER + NUT	STEEL
6572.2	STUD BOLD + WASHER + NUT	STEEL
6572.3	STUD BOLD + WASHER + NUT	STEEL
6574	SCREW	STEEL 8.8
6579.4	SCREW	STEEL 8.8
6579.5	SCREW	STEEL 8.8
6581.6	SCREW + WASHER	STEEL 8.8
6581.7	SCREW + WASHER	STEEL 8.8
6710	KEY FOR IMPELLER	STEEL
6710.1	KEY FOR IMPELLER	STEEL
6742	KEY FOR COUPLING	STEEL
M1	CONNECTION PRESSURE GAUGE	
R1	OIL FILLING	
S1	PUMP DRAIN PLUG	
S3	MECH. SEAL / PACKING DRAIN CONNECTION	
S4	OIL DRAIN PLUG	
V1	VACUUM GAUGE CONNECTION	
	GREASE LUBRICATION	
3851	GREASE CUP	

Description of the product

For units without motor the motor data are left out, and for bare shaft pumps the coupling and motor data are left out. The example describes an KDN 125-250 with 264 mm. impeller, in cast iron with neck rings, with BAQE shaft seal, standard coupling and a 2-poles 132 kW motor.



Packing codes

Item	Code	Description of the packing
1	S	Packing type stuffing box
Item	Code	Cooling
2	N	Uncooled stuffing box
	K	Cooled stuffing box
Item	Code	Barrier fluid
	E	With internal liquid
3	F	With external liquid
	O	Without barrier fluid

Description of the mechanical seal

Item	Code	Description of the seal
1	A	O-ring seal with fixed seal driver
	B	Rubber bellows seal
	C	O-ring seal with spring as seal driver
	D	Balanced O-ring seal
	G	Rubber bellows seal with reduced seal faces
	M	Metal bellows seal
	X	Other
Item	Code	Materials
2&3	A	Metal-impregnated carbon
	B	Synthetic-resin-impregnated carbon
	C	Other types of carbon
	S	Chromium steel
	U	Tungsten carbide
	Q	Silicon carbide
	V	Aluminium oxide (ceramic)
	X	Other types of ceramic/carbide
Item	Code	Materials
4	P	Nitrile (NBR)
	S	Silicone rubber
	T	Teflon (PTFE)
	E	EPDM
	V	FKM
	M	PTFE coated O ring

- Flow: max 2200 m³/h
- Head: max 158 m
- Liquid temperature: from -10°C to +120°C (Other temperatures on request)
- Operating pressure: max. 16 bar

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Description of the product code

Impeller's nominal diameter	Code
250	4
400	8
500	9
330A	A
330	B
500A	D
400M	E
400A	F
250A	G

Pump type	Code
32 oversize	L
65 oversize	A
80 oversize	B
100 oversize	C
125 oversize	D
150 oversize	H
200 oversize	E
250 oversize	F
300 oversize	G
350 oversize	I

Code	Materiale pompa/girante
5	Cast iron/Cast iron + W*
6	Cast iron/Cast iron spheroidal + W
7	Full ghisa spheroidal + W
8	Cast iron/Inox 316 impeller + W
9	Full Inox 316 + W
P	6 Electrophoresis
R	8 Electrophoresis

W = Wear ring

Code	Seal available (1)
1	BAQE
2	BAQE (RMG12)
5	BQQV
7	BAQV
A	SNE
B	SNO
C	SNF
D	SKO
E	GQQE
F	GQQV
G	BQQE
S	DUCE
T	CUCE

(1) For standard seals see technical data

Code	Coupling
0	Without coupling
1	With STD coupling
2	With spacer coupling

Code	P2 Nominal
0	Bare shaft
1	0,37
2	0,55
3	0,75
4	1,1
5	1,5
6	2,2
7	3
8	4
9	5,5
A	7,5
B	11
C	15
D	18,5
E	22
F	30
G	37
H	45
K	55
L	75
M	90
N	110
P	132
Q	160
R	200
S	250
T	315
U	355
V	400
W	450
Z	500

Product code

1	F	1	K	1	1	B	X	3

Bare shaft pump — 0 0 0

Pump on base without motor — 0

Complete motor-driven pump with base

Code	Voltage	Poles
0	Without motor	-
1	3X220-240/380-415V 50Hz 3X220-275/380-480V 60Hz	2
2	3X380-415V 50Hz 3X380-480V 60 Hz	2
3	3X220-240/380-415V 50Hz 3X220-275/380-480V 60Hz	4
4	3X380-415V 50Hz 3X380-480V 60 Hz	4
7	3X220-240/380-415V 50Hz 3X220-275/380-480V 60Hz	6
8	3X380-415V 50Hz 3X380-480V 60 Hz	6

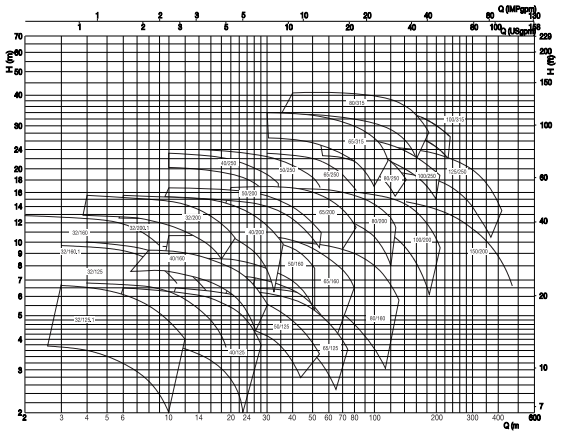
GENERAL DATA

STANDARDIZED MOTOR-DRIVEN PUMPS ON BASEPLATE

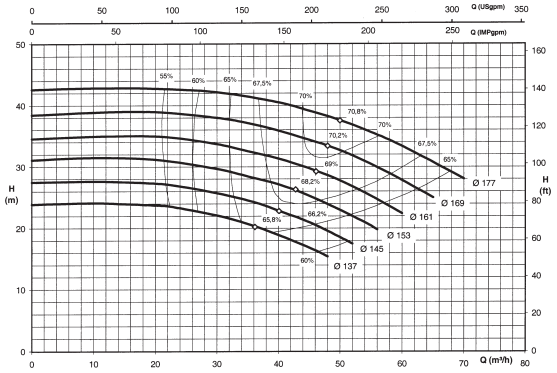
Asynchronous, closed and cooled with external ventilation, 2 or 4 poles. Rotor mounted on extra large ball bearings to guarantee low noise running and durability.
Electrical protection: in compliance with the EEC 89/336 ELECTROMAGNETIC COMPATIBILITY directive and subsequent amendments, EEC 73/23 LOW VOLTAGE directive and subsequent amendments and CEI 2-3 standards.
Construction: B3
Protection level: IP 55
Insulation class: F
Supply voltage: Three-phase 230-400V 50 Hz up to 2,2 kW inclusive
400V Δ 50 Hz over 2.2 kW
Special versions on request: other voltages and/or frequencies.

Instruction to find the pump and motor required

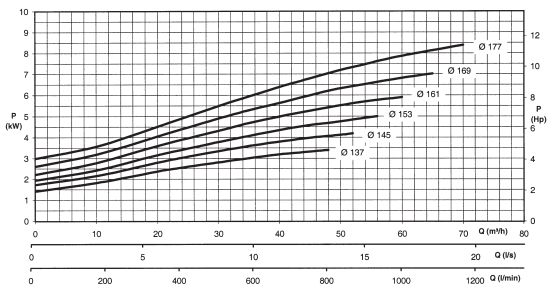
1. Find on the chart supplied the family of pumps that offer, more or less, the rates of flow and heads required.



2. Look for the most suitable characteristic on the characteristic curves of each family.



3. Find the power wanted on the power graph for the pump to work where it is wanted.



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4. There are likely to be variations in the rate of flow of the liquid pumped causing an oscillation of the functioning point, in which case the power absorbed could be greater. When choosing the motor, allow the following safety margins:

Safety margins according to ISO 5199

UP TO REQUIRED PUMP SHAFT POWER (kW)	USE MOTOR OUTPUT P2 (kW)
322	355
286	315
227	250
181	200
145	160
120	132
100	110
81	90
68	75
49	55
40	45
32,5	37
26	30
19	22
15,9	18,5
12,8	15
9,1	11
6,1	7,5
4,3	5,5
3,2	4
2,3	3
1,7	2,2
1,1	1,5
0,81	1,1
0,55	0,75
0,40	0,55
0,27	0,37
0,18	0,25

If necessary, adjust the power of the motor to be installed if you expect to be pumping liquids with quite high viscosity and specific weight values (verify suitability of construction materials in contact with the liquid).

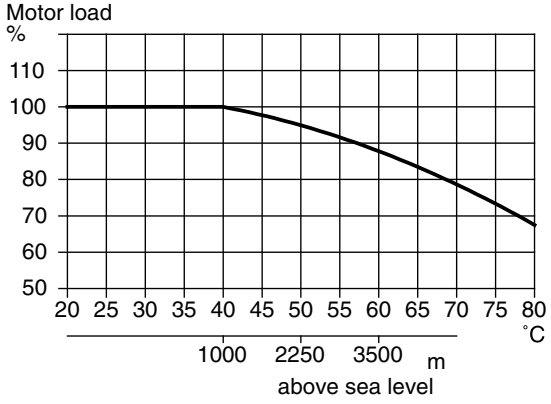
5. With the name of the pump and the power of the motor, find on the following technical data the name of the most suitable base (with motor, spacer coupling and coupling cover).

6. The pump and base required will be delivered already assembled and aligned, although an alignment check is always required after installation (see INSTRUCTION HANDBOOK).

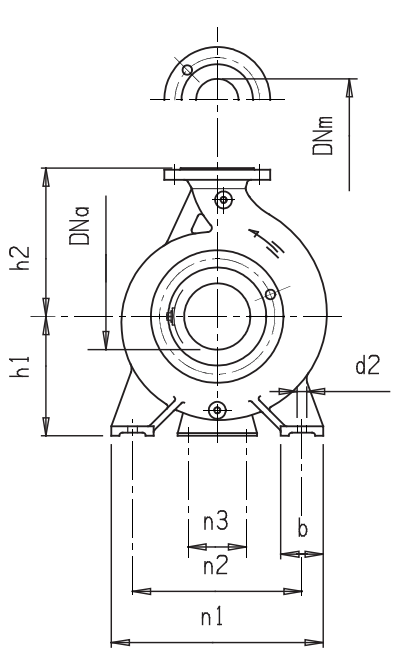
Ambient temperature

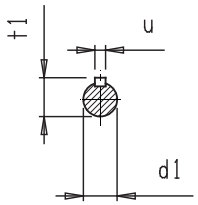
From -30°C to +40°C

Due to the low density and consequent low cooling effect of the air, operation at an ambient temperature above 40°C or at an altitude exceeding 1000 m above sea level requires a reduction of the rated motor load.

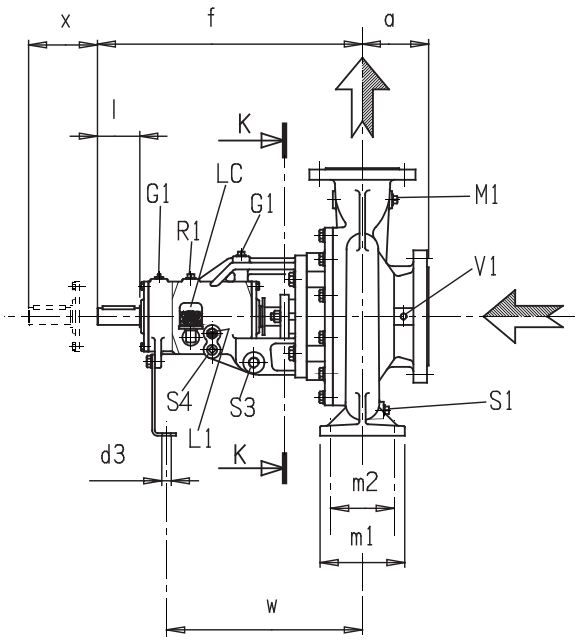


Dimensions of bare shaft pumps





d1	u	t1
24	8	27
32	10	35
42	12	45
45	14	48,5
48	14	51,5
50	14	53,5
55	16	59
65	18	69



		Grease lubrication		Oil lubrication	
M1	Pressure gauce connection	G1	Greaser	R1	Oil filling - 3/8"
S1	Drain plug			L1	Oil level - 3/8"
S3	Packing drain connection 1/2"			S4	Oil drain plug 3/8"
V1	Vacuum gauce connection			LC	Costant level oil 1/4"

Type	Supp.	DNa	DNm	a	f	h1	h2	b	m1	m2	n1	n2	d2	n3	d3	w	x	d1	l	M1	S1	V1	kg
KDN 32-250	2	50	32	100	500	180	225	65	125	95	320	250	14	110	14	370	100	32	80	3/8"	1/4"	1/4"	78
KDN 32-250A	2	50	32	100	500	180	225	65	125	95	320	250	14	110	14	370	100	32	80	3/8"	1/4"	1/4"	78
KDN 50-330	2	80	50	125	500	225	280	65	125	95	345	280	14	110	14	370	100	32	80	3/8"	1/4"	1/4"	116
KDN 65-250	2	100	65	125	500	200	250	80	160	120	360	280	18	110	14	370	140	32	80	3/8"	1/4"	1/4"	88
KDN 65-330	3	100	65	125	530	225	280	80	160	120	400	315	18	110	14	370	140	42	110	3/8"	1/4"	1/4"	152
KDN 65-400	3	100	65	125	530	280	355	80	160	120	435	355	18	110	14	370	140	42	110	3/8"	1/4"	1/4"	180
KDN 80-250	2	125	80	125	500	225	280	80	160	120	400	315	18	110	14	370	140	32	80	3/8"	3/8"	3/8"	100
KDN 80-330	3	125	80	125	530	250	315	80	160	120	400	315	18	110	14	370	140	42	110	3/8"	3/8"	3/8"	155
KDN 80-400	3	125	80	125	530	280	355	80	160	120	435	355	18	110	14	370	140	42	110	3/8"	3/8"	3/8"	185
KDN 100-250	3	125	100	140	530	225	280	80	160	120	400	315	18	110	14	370	140	42	110	3/8"	3/8"	3/8"	130
KDN 100-330	3	125	100	140	530	250	315	80	160	120	400	315	18	110	14	370	140	42	110	3/8"	3/8"	3/8"	170
KDN 100-400	3	125	100	140	530	280	355	100	200	150	500	400	23	110	14	370	140	42	110	3/8"	3/8"	3/8"	200
KDN 125-250	3	150	125	140	530	250	355	80	160	120	400	315	18	110	14	370	140	42	110	1/2"	3/8"	3/8"	140
KDN 125-330	3	150	125	140	530	280	355	100	200	150	500	400	23	110	14	370	140	42	110	1/2"	3/8"	3/8"	190
KDN 125-400	3	150	125	140	530	315	400	100	200	150	500	400	23	110	14	370	140	42	110	1/2"	3/8"	3/8"	220
KDN 150-250	3	200	150	160	530	280	375	100	200	150	500	400	23	110	14	370	180	42	110	1/2"	1/2"	3/8"	180
KDN 150-330	4	200	150	160	670	315	400	100	200	150	550	450	22	140	18	500	180	55 [1]	110	1/2"	1/2"	3/8"	255
KDN 150-400	4	200	150	160	670	315	450	100	200	150	550	450	22	140	18	500	180	55 [1]	110	1/2"	1/2"	3/8"	298
KDN 150-500	4	200	150	180	670	355	500	100	200	150	550	450	22	140	18	500	180	55	110	1/2"	1/2"	3/8"	410
KDN 150-500A	4	200	150	180	670	355	500	100	200	150	550	450	22	140	18	500	180	55	110	1/2"	1/2"	3/8"	410

[1] d1 Ø 48 value on request for pumps according to DIN 24256 - ISO 2858

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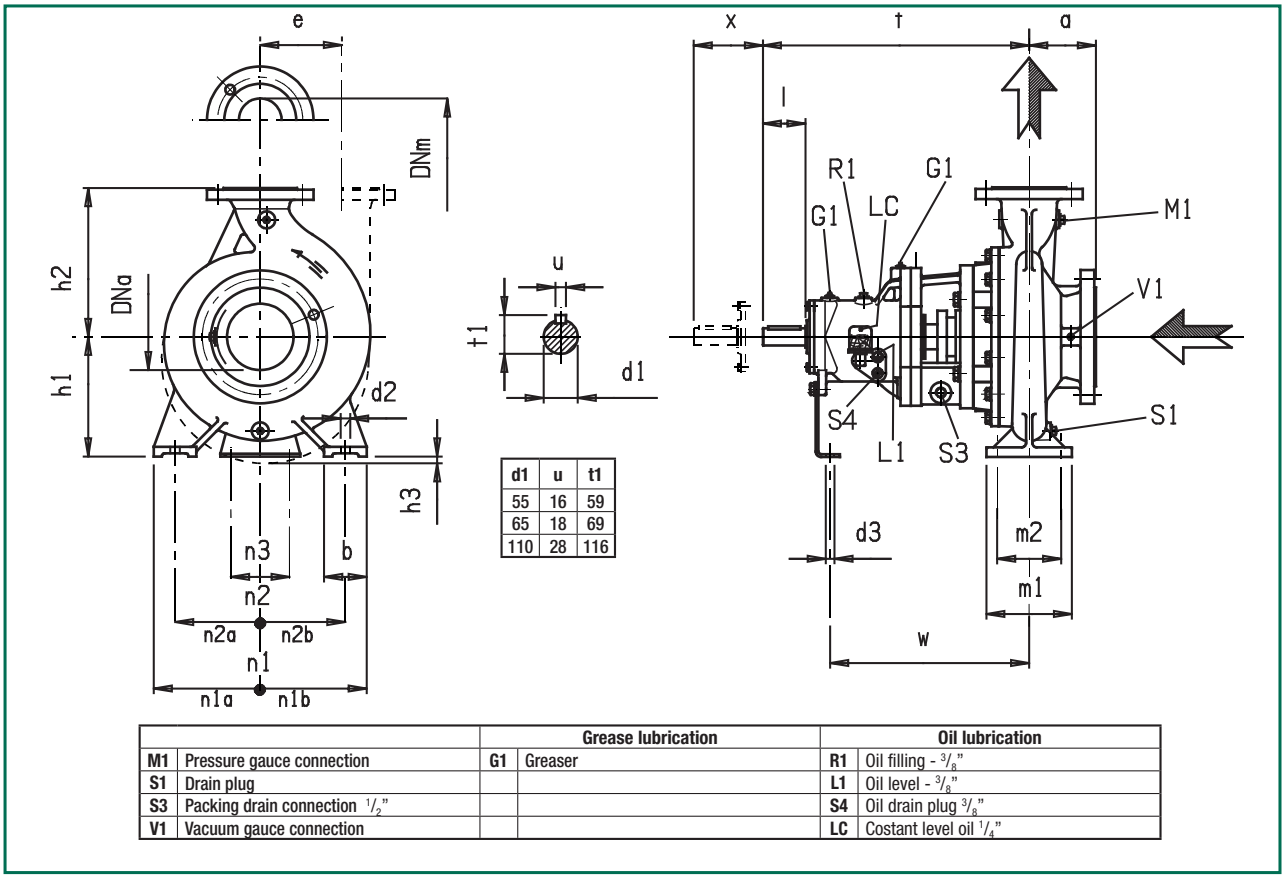
Dimensions of bare shaft pumps



d1	u	t1
55	16	59
65	18	69
110	28	116

		Grease lubrication		Oil lubrication	
M1	Pressure gauce connection	G1	Greaser	R1	Oil filling - 3/8"
S1	Drain plug			L1	Oil level - 3/8"
S3	Packing drain connection 1/2"			S4	Oil drain plug 3/8"
V1	Vacuum gauce connection			LC	Costant level oil 1/4"

Type	Supp.	DNa	DNm	a	f	h1	h2	b	m1	m2	n1	n1a	n1b	n2	n2a	n2b	d2	n3	d3	h3	e	w	x	d1	l	M1	S1	V1	kg
KDN 200-330	4	250	200	200	670	355	450	100	200	150	550	275	275	450	225	225	22	140	18			500	180	55	110	1/2"	1/2"	3/8"	360
KDN 200-400	4	250	200	185	670	355	500	100	200	150	550	275	275	450	225	225	22	140	18			500	180	55	110	1/2"	1/2"	3/8"	390
KDN 200-500	4	250	200	185	670	400	580	140	250	190	800	400	400	660	330	330	27	140	18	15		500	180	55	110	1/2"	1/2"	3/8"	400
KDN 250-330	4	300	250	250	670	400	525	140	250	190	700	350	350	560	280	280	27	140	18			500	240	55	110	1/2"	1/2"	3/8"	410
KDN 250-400	5	300	250	225	780	400	600	125	250	190	690	345	345	560	280	280	27	140	18			545	180	65	140	1/2"	1/2"	3/8"	650
KDN 250-500	5	300	250	300	800	500	500	130	260	190	830	380	450	710	320	390	27	140	18		425	565	250	65	140	1/2"	1/2"	3/8"	700
KDN 250-500A	5	300	250	300	800	500	500	130	260	190	830	380	450	710	320	390	27	140	18		425	565	250	65	140	1/2"	1/2"	3/8"	700
KDN 300-330	4	350	300	300	720	500	670	150	360	280	900	450	450	750	375	375	27	140	18			550	240	55	110	1/2"	1/2"	3/8"	780
KDN 300-400	5	350	300	325	790	400	640	125	250	190	690	345	345	560	280	280	27	140	18			555	240	65	140	1/2"	1/2"	3/8"	800
KDN 300-400A	5	350	300	325	790	400	640	125	250	190	690	345	345	560	280	280	27	140	18			555	240	65	140	1/2"	1/2"	3/8"	800
KDN 300-400M	5	350	300	300	845	500	670	150	360	280	900	450	450	750	375	375	27	140	18			610	240	65	140	1/2"	1/2"	3/8"	900
KDN 350-500	6	400	350	380	1150	600	600	150	400	300	1000	450	550	850	375	475	27	140	18		450	800	380	110	210	1/2"	1/2"	3/8"	1080
KDN 350-500A	6	400	350	380	1150	600	600	150	400	300	1000	450	550	850	375	475	27	140	18		450	800	380	110	210	1/2"	1/2"	3/8"	1080

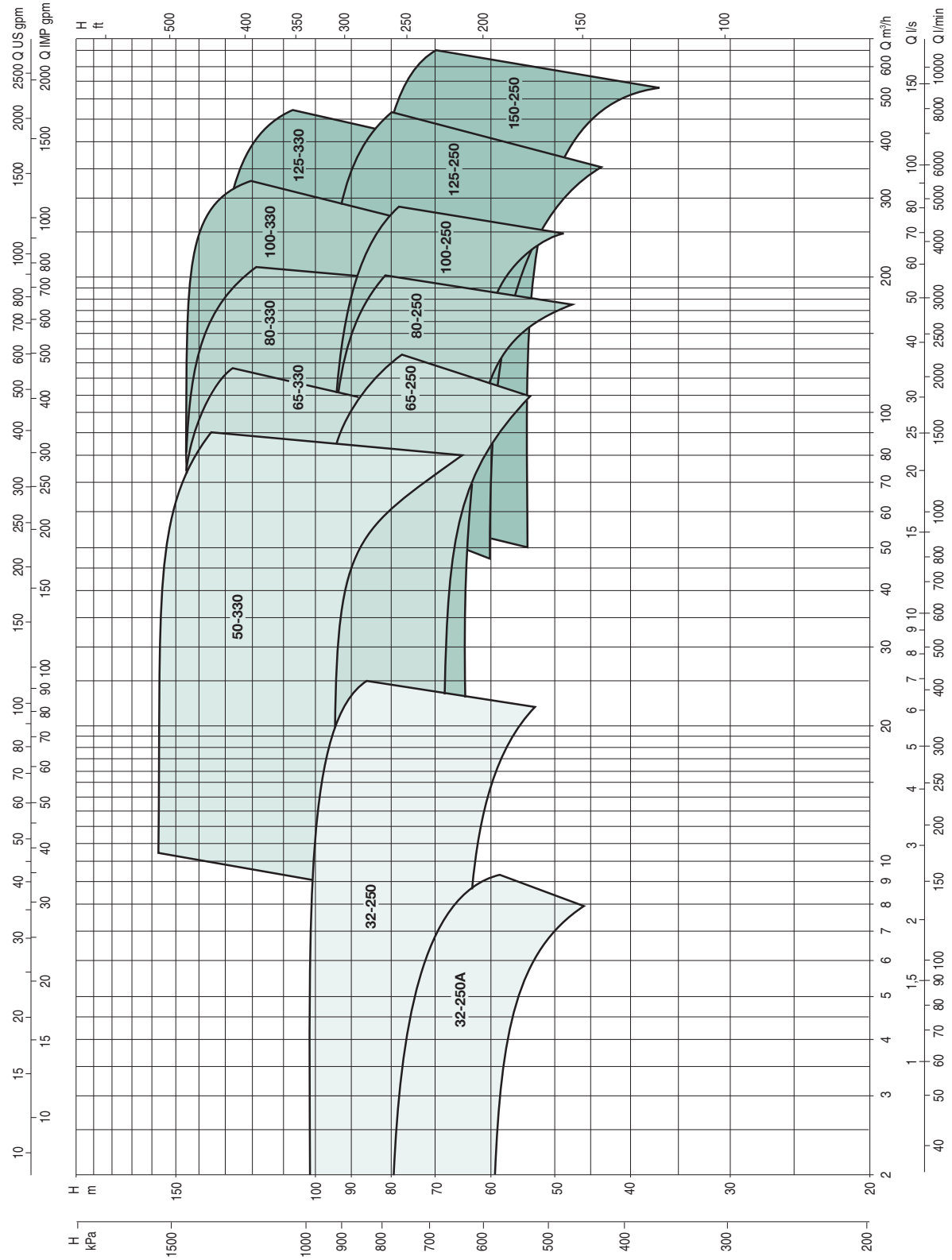
PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

The performance curves are based on the kinematic viscosity values = 1 mm2/s and density equal to 1000 kg/m3. Curve tolerance according to ISO 9906.

KDN 2 POLES

= 2900 1/min



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PERFORMANCE RANGE

KDN 2 POLES

NUMERICAL SELECTION TABLE

= 2900 1/min

MODEL	m³/h	0	2	4	6	8	10	12	16	20	24	40	60	80	100	120	130	150	180	200	260	280	300	400	450	500	600
	l/min	0	33	67	100	133	167	200	267	333	400	667	1000	1333	1667	2000	2167	2500	3000	3333	4333	4667	5000	6667	7500	8334	10000
KDN 32-250 A / 244		61	59	57	53	46																					
KDN 32-250 A / 254		68	66	63	59	53																					
KDN 32-250 A / 259		75	73	69	65	60	52																				
KDN 32-250 A / 264		81	79	76	72	68	60																				
KDN 32-250 / 224		63		63	63	63	62	62	59	55																	
KDN 32-250 / 234		71		71	71	71	70	70	68	64																	
KDN 32-250 / 244		81		81	81	80	80	80	79	76	68																
KDN 32-250 / 254		91		91	91	91	90	90	89	85	78																
KDN 32-250 / 264		100		100	100	100	100	100	98	95	87																
KDN 50-330 / 270		95								95	94	93	85	64													
KDN 50-330 / 290		115								115	114	113	106	88													
KDN 50-330 / 310		132								132	132	132	128	114	100												
KDN 50-330 / 328		157								157	156	156	154	145	137												
KDN 65-250 / 224		67								66	66	66	64	61	56												
KDN 65-250 / 234		74								73	73	73	71	67	62	55											
KDN 65-250 / 244		81								81	80	80	79	76	71	65											
KDN 65-250 / 254		89								89	89	89	88	85	81	75	71										
KDN 65-250 / 264		100								100	99	99	98	95	91	85	80										
KDN 65-330 / 270		92								92	91	91	89	83	74												
KDN 65-330 / 290		110								110	109	108	105	100	92												
KDN 65-330 / 310		128								128	128	128	125	122	116	105											
KDN 65-330 / 328		150								150	149	149	148	144	139	128											
KDN 80-250 / 224		65										64	64	64	62	60	58	54									
KDN 80-250 / 234		71										71	71	71	69	67	65	61	55								
KDN 80-250 / 244		79										79	78	78	77	74	72	69	62								
KDN 80-250 / 254	H	87										87	86	86	85	83	80	78	72								
KDN 80-250 / 264	(m)	98										97	97	96	95	94	92	90	86	81							
KDN 80-330 / 270		93										92	92	90	89	86	84	80	68								
KDN 80-330 / 290		108										107	107	106	105	102	100	96	85								
KDN 80-330 / 310		127										126	126	125	125	123	122	120	111								
KDN 80-330 / 328		148										147	147	146	146	143	142	139	130	123							
KDN 100-250 / 224		63										63	63	63	62	62	61	61	59	57							
KDN 100-250 / 234		71										71	71	71	70	70	70	69	68	65	55						
KDN 100-250 /244		77										77	77	77	77	77	76	76	75	72	63						
KDN 100-250 / 254		86										86	86	86	86	85	85	84	83	81	74	70					
KDN 100-250 / 264		94										94	94	93	93	93	92	92	91	89	84	80					
KDN 100-330 / 270		93													92	92	91	90	88	85	70						
KDN 100-330 / 290		110													109	109	108	107	105	102	90	85					
KDN 100-330 / 310		129													128	128	127	127	125	123	112	107	102				
KDN 100-330 / 328		148													148	148	147	147	146	145	137	135	120				
KDN 125-250 / 220		60													59	59	59	58	57	56	55	53	49				
KDN 125-250 / 235		72													71	71	71	70	70	69	68	66	62				
KDN 125-250 / 250		83													82	82	82	82	82	81	80	79	77	68			
KDN 125-250 / 264		97													97	97	97	97	97	96	95	94	93	86			
KDN 125-330 / 270		96													96	96	96	96	95	94	93	90	87	68			
KDN 125-330 / 290		112													112	112	111	111	110	110	109	107	104	92			
KDN 125-330 / 300		122													122	122	121	121	121	120	119	118	117	106	98		
KDN 125-330 / 310		132													132	132	132	132	131	131	130	130	128	120	110		
KDN 150-250 / 220		54													54	53	53	53	53	53	53	52	51	47	45	43	
KDN 150-250 / 235		62													62	62	61	61	61	61	61	60	59	56	54	51	
KDN 150-250 / 250		72													72	72	72	72	72	72	72	71	71	68	67	64	56
KDN 150-250 / 264		87													87	87	86	86	86	86	86	85	85	83	81	79	74

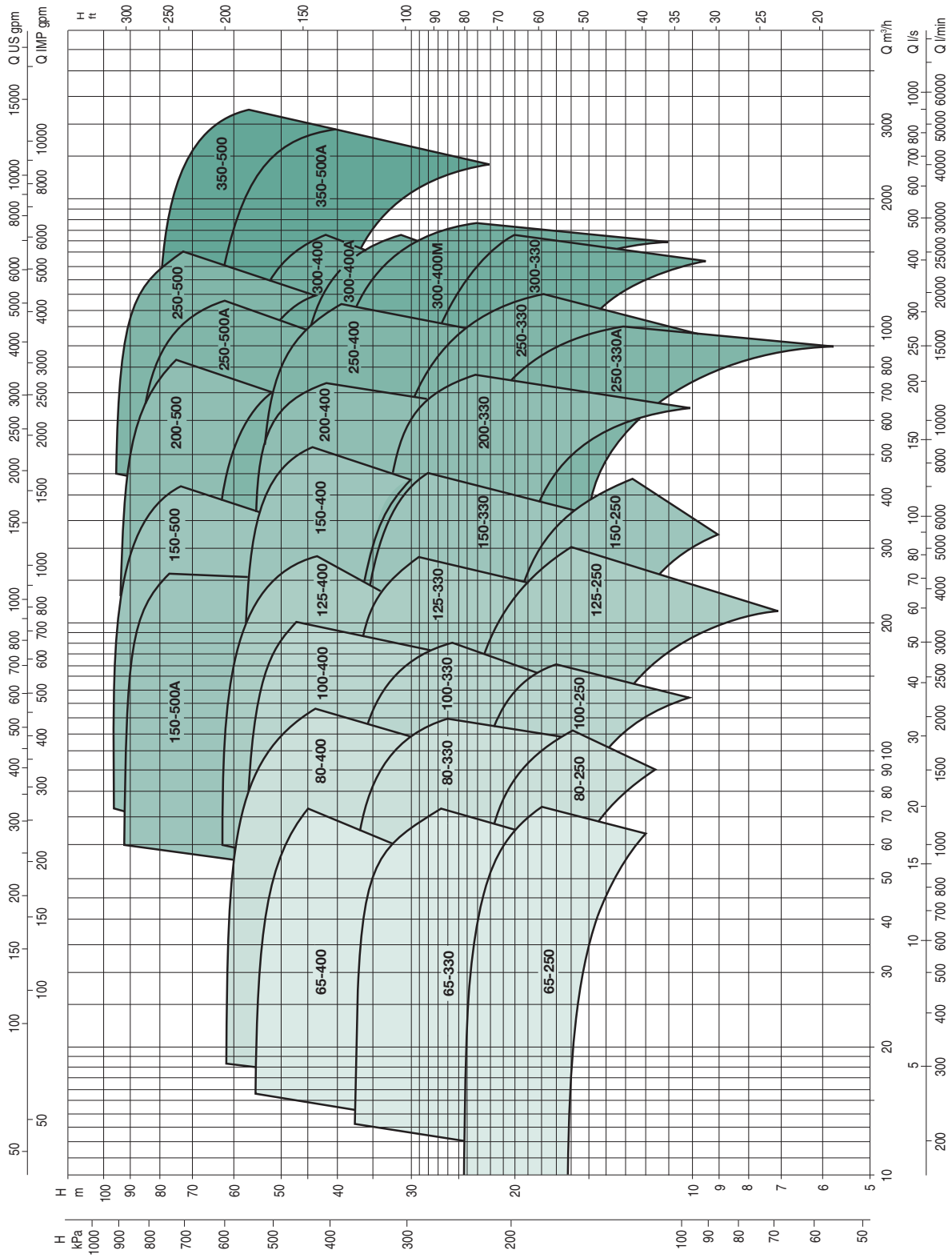
PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

The performance curves are based on the kinematic viscosity values = 1 mm2/s and density equal to 1000 kg/m3. Curve tolerance according to ISO 9906.

KDN 4 POLES

= 1450 1/min



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PERFORMANCE RANGE
KDN 4 POLES

NUMERICAL SELECTION TABLE
= 1450 1/min

MODEL	m^3/h	0	10	20	30	40	50	60	70	80	100	120	150	180	200
	l/min	0	167	333	500	667	833	1000	1167	1333	1667	2000	2500	3000	3333
KDN 65-250 / 224		16	16	16	15	15	14								
KDN 65-250 / 244		21	21	20	20	19	18	16							
KDN 65-250 / 264		25	25	25	24	24	23	21	19	17					
KDN 65-330 / 270		23	23	23	22	21	19	15							
KDN 65-330 / 290		28	27	27	26	25	23	20							
KDN 65-330 / 310		32	32	32	32	31	29	26	22						
KDN 65-330 / 328		38	38	38	37	36	35	33	29						
KDN 65-400 / 350		38	38	38	37	36	34	31							
KDN 65-400 / 370		44	43	43	43	42	40	38							
KDN 65-400 / 390		50	50	50	49	48	46	44	42						
KDN 65-400 / 408		55	55	54	54	53	51	49	46						
KDN 80-250 / 224		16		16	16	16	16	15	14	13					
KDN 80-250 / 244		19		19	19	19	19	18	17	17	14				
KDN 80-250 / 264		23		23	23	23	22	22	21	21	18				
KDN 80-330 / 270		24		24	24	24	23	23	21	19	15				
KDN 80-330 / 290		28		28	28	28	27	26	25	24	19				
KDN 80-330 / 310		33		33	33	33	33	33	32	31	27				
KDN 80-330 / 328	H (m)	38		38	38	38	38	38	37	36	32	26			
KDN 80-400 / 330		37		37	37	37	37	36	35	33	28				
KDN 80-400 / 350		43		43	43	43	43	42	41	39	34				
KDN 80-400 / 370		48		49	49	48	48	47	46	44	39				
KDN 80-400 / 390		55		54	54	54	54	53	52	51	47	41			
KDN 80-400 / 408		62		61	61	61	61	60	59	57	52	46			
KDN 100-250 / 224		16			16	16	16	15	15	15	14	13			
KDN 100-250 / 244		19			19	19	19	19	19	19	18	17			
KDN 100-250 / 264		23			23	23	23	23	23	23	22	21	19		
KDN 100-330 / 270		23			23	23	23	23	23	23	21	19			
KDN 100-330 / 290		27			27	27	27	27	27	27	26	24	19		
KDN 100-330 / 310		32			32	32	32	32	32	32	31	30	25		
KDN 100-330 / 328		37			37	37	37	37	37	37	36	35	32	26	
KDN 100-400 / 330		37			37	36	36	36	35	35	34	32	28		
KDN 100-400 / 350		41			41	41	41	41	40	40	39	37	33		
KDN 100-400 / 370		47			47	47	47	47	46	46	45	43	40	36	
KDN 100-400 / 390		53			53	53	53	53	52	52	51	50	47	44	
KDN 100-400 / 408		59			59	59	59	58	58	58	57	57	54	51	47

PERFORMANCE RANGE
KDN 4 POLES

NUMERICAL SELECTION TABLE
= 1450 1/min

MODEL	m³/h	0	10	20	30	40	50	60	70	80	100	120	150	180	200	250	300	350	400	450	500	600	700	800
	l/min	0	167	333	500	667	833	1000	1167	1333	1667	2000	2500	3000	3333	4167	5000	5833	6667	7500	8334	10000	11667	13334
KDN 125-250 / 220		15				15	15	14	14	14	14	13	12	11	9									
KDN 125-250 / 235		18				18	18	18	17	17	17	17	16	14	13	10								
KDN 125-250 / 250		21				21	21	21	21	21	20	20	19	18	17	14								
KDN 125-250 / 264		24				24	24	24	24	24	24	24	23	23	22	19	16							
KDN 125-330 / 270		25				24	24	24	24	24	24	23	22	19	17									
KDN 125-330 / 290		28				28	28	28	28	28	28	27	26	25	23									
KDN 125-330 / 310		34				33	33	33	33	33	33	33	32	31	30	25								
KDN 125-330 / 328		38				38	38	38	38	38	38	38	38	37	36	33								
KDN 125-400 / 330		40				40	40	40	40	40	39	39	37	34	31									
KDN 125-400 / 350		44				44	44	44	44	44	44	44	42	39	37									
KDN 125-400 / 370		50				50	50	50	49	49	49	49	48	45	43	33								
KDN 125-400 / 390		55				55	55	55	55	55	55	55	54	52	51	42								
KDN 125-400 / 408		61				61	61	61	61	61	61	61	60	59	57	51	41							
KDN 150-250 / 220		14						14	14	14	13	13	13	13	13	11	10							
KDN 150-250 / 235		16						16	16	16	16	16	15	15	15	13	12	10						
KDN 150-250 / 250		19						18	18	18	18	18	18	18	17	16	15	13						
KDN 150-250 / 264		22						21	21	21	21	21	21	20	20	19	18	17	14					
KDN 150-330 / 260		22						22	22	22	21	21	21	21	21	20	18	15						
KDN 150-330 / 280		26						26	26	26	26	26	25	25	25	24	23	21						
KDN 150-330 / 300		30						30	30	30	30	30	30	29	29	28	27	25	23					
KDN 150-330 / 315		34						34	33	33	33	33	33	33	33	32	31	29	27					
KDN 150-330 / 328		37						37	37	37	37	37	36	36	36	35	35	33	31	28				
KDN 150-400 / 330		37						37	37	37	37	37	37	37	37	36	35	34	31					
KDN 150-400 / 350		42						42	42	42	42	42	42	42	42	42	41	39	37	33				
KDN 150-400 / 370		47						47	47	47	47	47	47	47	47	46	45	44	41	38				
KDN 150-400 / 390	H (m)	54						53	53	53	53	53	53	53	53	52	51	50	47	44				
KDN 150-400 / 408		60						60	60	60	60	60	60	60	59	59	58	56	53	49	44			
KDN 150-500A / 440		65						65	64	64	64	63	62	60	58	51								
KDN 150-500A / 460		72						71	71	71	71	70	69	68	65	57								
KDN 150-500A / 480		78						78	77	77	77	76	75	73	71	63								
KDN 150-500A / 500		85						84	84	84	84	83	82	81	79	70								
KDN 150-500A / 518		91						91	91	91	91	91	90	88	86	79								
KDN 150-500 / 440		68									68	68	68	67	66	63	57	48						
KDN 150-500 / 460		74									74	74	73	73	72	69	64	56						
KDN 150-500 / 480		82									81	81	81	80	79	77	72	66	58					
KDN 150-500 / 500		89									89	89	88	88	87	85	81	76	68					
KDN 150-500 / 518		96									96	96	96	95	95	93	89	84	75					
KDN 200-330 / 270		20									20	20	20	20	20	20	19	19	18	17	16	12		
KDN 200-330 / 290		24									24	24	24	24	24	24	24	23	23	22	22	19		
KDN 200-330 / 310		29									29	29	29	29	29	29	29	29	28	28	27	25	21	
KDN 200-330 / 328		34									34	34	33	33	33	33	33	33	33	33	32	31	27	
KDN 200-400 / 330		32									32	32	32	32	32	31	31	31	30	29	28	23		
KDN 200-400 / 350		38									38	38	38	38	38	38	37	37	37	36	35	31		
KDN 200-400 / 370		43									43	43	43	43	43	43	43	42	42	42	41	37		
KDN 200-400 / 390		48									48	48	48	48	48	48	48	48	48	48	47	45	37	
KDN 200-400 / 408		54									54	54	54	54	54	54	54	54	53	53	53	51	46	
KDN 200-500 / 430		65									65	65	65	65	65	65	64	64	63	62	60	56	51	
KDN 200-500 / 450		72									72	72	72	72	71	71	71	71	70	69	67	62	58	
KDN 200-500 / 470		76									76	77	77	77	76	76	76	76	75	74	72	68	63	
KDN 200-500 / 490		82									82	83	82	82	82	82	82	82	81	80	79	76	71	65
KDN 200-500 / 508		94									94	94	94	94	94	93	93	92	92	91	89	86	81	75

DAB PUMPS reserve the right to make modifications without prior notice

PERFORMANCE RANGE
KDN 4 POLES

NUMERICAL SELECTION TABLE

= 1450 1/min

MODEL	m³/h	0	250	300	350	400	450	500	600	700	800	900	1000	1100	1200	1400	1500	1600	2000	2500	2800	3000
	l/min	0	4167	5000	5833	6667	7500	8334	10000	11667	13334	15000	16667	18334	20000	23334	25001	26667	33334	41668	46668	50001
KDN 250-330A / 275/32°		17	16	15	15	15	14	14	12	11	8	6										
KDN 250-330A / 275/16°		20	19	18	18	18	17	17	16	14	11	8										
KDN 250-330A / 275		23	22	21	21	21	20	20	18	17	14	11										
KDN 250-330A / 285		26	24	24	23	23	23	22	21	19	17	14										
KDN 250-330A / 295		28		26	26	25	25	24	23	22	20	17	13									
KDN 250-330 / 310/16°		23		20	19	19	18	18	17	15	13	11										
KDN 250-330 / 310/290		26		24	24	23	23	22	20	18	17	14	12									
KDN 250-330 / 310/300		28		26	25	25	24	24	23	21	18	17	13									
KDN 250-330 / 310		30		28	27	27	26	26	25	23	22	19	17									
KDN 250-330 / 320		32		30	30	30	29	29	28	26	25	23	21									
KDN 250-330 / 328		35		33	33	33	32	32	30	29	28	26	24									
KDN 250-400 / 330		33		33	32	32	31	31	29	27	25	22										
KDN 250-400 / 350		39		38	38	37	37	36	35	33	31	29	26									
KDN 250-400 / 370		44		43	43	43	43	42	41	40	38	35	32									
KDN 250-400 / 390		50		50	50	50	49	49	48	47	45	43	40	36								
KDN 250-400 / 408		54		54	54	54	54	54	53	52	50	48	45	41								
KDN 250-500A / 440		61		61	61	61	61	60	58	55	51	45										
KDN 250-500A / 460		68		68	68	68	67	67	65	62	58	53	46									
KDN 250-500A / 480		76		75	75	75	75	74	73	70	67	62	57									
KDN 250-500A / 500		82		82	82	82	82	82	81	79	76	72	67	60								
KDN 250-500A / 518		89		89	89	89	89	88	87	85	82	78	74	68								
KDN 250-500 / 440		60						60	59	57	56	55	54	50	44							
KDN 250-500 / 460		66						66	66	66	65	64	61	58	53							
KDN 250-500 / 480		75						75	75	75	74	73	72	69	65							
KDN 250-500 / 500		84						84	84	84	83	83	82	80	76	66						
KDN 250-500 / 518	H	94						94	94	94	94	93	92	90	87	79	72					
KDN 300-330 / 325/36°	(m)	19						18	18	17	16	16	15	14	13	10						
KDN 300-330 / 325/24°		22						21	20	20	19	18	17	16	15	13	11					
KDN 300-330 / 325/12°		24						23	23	22	21	20	20	19	17	15	13					
KDN 300-330 / 325		28						26	25	25	24	23	22	21	20	18	16					
KDN 300-330 / 335		30						28	27	27	26	25	25	24	23	21	19	17				
KDN 300-330 / 345		32						30	30	29	29	28	27	27	26	23	22	21				
KDN 300-400M / 350		25						24	23	23	22	21	20	19	18	16	14	11				
KDN 300-400M / 380		32						31	31	31	30	29	29	28	27	25	22	20				
KDN 300-400M / 395		37						36	36	35	35	34	34	33	32	29	27	25				
KDN 300-400M / 408		41						40	40	40	39	38	37	37	36	34	31	29				
KDN 300-400A / 330/7°		33				33	32	32	32	31	31	30	29	28	26	21						
KDN 300-400A / 370/340		39				38	38	38	38	38	37	36	35	34	33	29	27					
KDN 300-400A / 370/355		43					43	43	42	42	41	41	40	39	38	34	32	28				
KDN 300-400A / 370		47				47	47	47	47	47	46	46	45	44	42	39	36	33				
KDN 300-400 / 340		40			40	39	39	39	38	37	36	35	33	32	28							
KDN 300-400 / 370		49			48	48	47	47	46	46	45	44	42	41	38							
KDN 300-400 / 390		54			53	53	53	53	52	51	51	50	49	48	46	42	39					
KDN 300-400 / 408		59			59	59	59	58	58	57	57	56	55	54	53	50	48	45				
KDN 350-500A / 405/16°		41					41	41	40	40	40	40	40	40	39	38	38	37	32			
KDN 350-500A / 405		50					50	50	50	50	50	50	49	49	49	49	48	47	43	33		
KDN 350-500A / 435		57					57	57	57	57	57	57	57	57	56	56	55	55	51	42	34	
KDN 350-500A / 465		65					64	64	64	64	64	64	64	64	64	63	63	62	59	51	44	
KDN 350-500 / 430		49					48	48	48	48	48	47	47	47	47	46	46	45	42	36		
KDN 350-500 / 460		61					61	61	60	60	60	59	59	59	58	58	57	56	54	47	40	
KDN 350-500 / 490		70					70	70	69	69	69	69	69	69	68	67	67	66	63	58	52	48
KDN 350-500 / 518		81					81	81	81	80	80	80	80	80	80	80	79	78	76	71	66	63

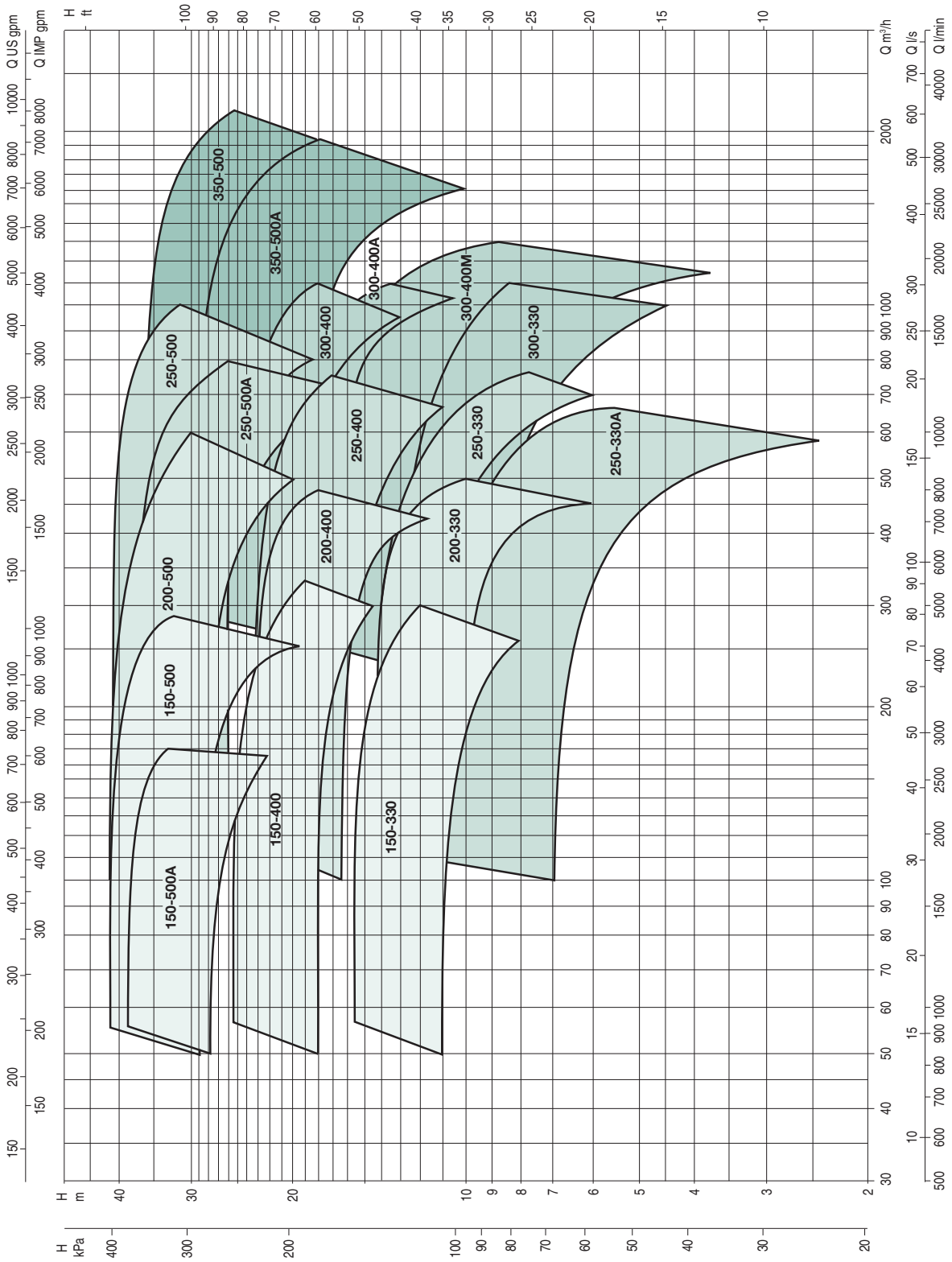
PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

The performance curves are based on the kinematic viscosity values = 1 mm2/s and density equal to 1000 kg/m3. Curve tolerance according to ISO 9906.

KDN 6 POLES

= 970 1/min



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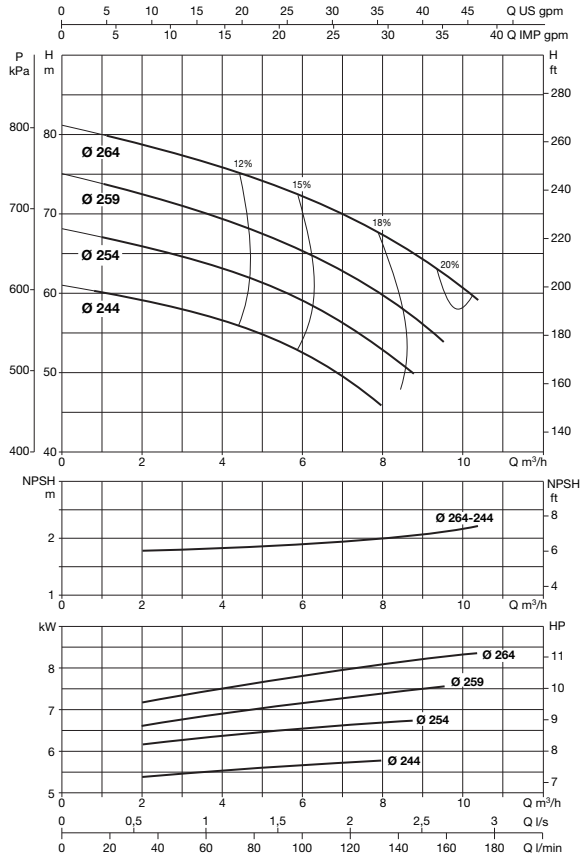
PERFORMANCE RANGE
KDN 6 POLES

NUMERICAL SELECTION TABLE
= 970 1/min

MODEL	m³/h	0	50	100	150	200	250	300	400	450	500	600	700	800	1000	1200	1600	1700	1800	1900	2000
	l/min	0	833	1667	2500	3333	4167	5000	6667	7500	8334	10000	11667	13334	16667	20000	26667	28334	30001	31667	33334
KDN 150-330 / 280	H (m)	11	11	11	11	10	8														
KDN 150-330 / 300		13	13	13	12	12	10														
KDN 150-330 / 315		14	14	14	14	13	12														
KDN 150-330 / 328		16	16	16	15	15	14	12													
KDN 150-400 / 350		18	18	18	18	17	16	14													
KDN 150-400 / 370		20	20	20	20	19	18	16													
KDN 150-400 / 390		23	23	23	23	22	21	18													
KDN 150-400 / 408		25	25	25	25	25	23	21													
KDN 150-500 / 440		29	29	29	28	24															
KDN 150-500 / 480		35	35	35	33	31	27														
KDN 150-500 / 518		41	41	41	40	39	35														
KDN 150-500A / 440		28	28	27	24																
KDN 150-500A / 480		33	33	32	29																
KDN 150-500A / 518		39	39	39	36																
KDN 200-330 / 290		10		10	10	10	10	10	8	6											
KDN 200-330 / 310		12		12	12	12	12	12	11	8											
KDN 200-330 / 328		14		14	14	14	14	14	13	12	10										
KDN 200-400 / 350		16		16	16	16	16	16	13												
KDN 200-400 / 370		18		18	18	18	18	18	16												
KDN 200-400 / 390		21		21	21	21	20	20	19	17											
KDN 200-400 / 408		23		23	23	23	23	23	22	20											
KDN 200-500 / 430		28		28	28	28	27	27	24	22	20										
KDN 200-500 / 470		34		34	34	34	33	33	30	28	26										
KDN 200-500 / 508		41		41	41	41	40	40	37	36	34	30									
KDN 250-330 / 310		13		12	12	12	12	11	11	10	10	8	6								
KDN 250-330 / 320		14		13	13	13	13	13	12	12	11	10	8								
KDN 250-330 / 328		15		15	15	14	14	14	13	13	13	11	10								
KDN 250-330 / 275/32°		7		7	7	7	6	6	5	5	4	2									
KDN 250-330 / 275		10		10	9	9	9	9	8	7	7										
KDN 250-330 / 295		12		12	12	11	11	11	10	9	9	7									
KDN 250-400 / 350		16		16	16	16	16	16	15	15	14	12									
KDN 250-400 / 370		19		19	19	19	18	18	18	18	17	15	13								
KDN 250-400 / 390		22		22	22	21	21	21	21	21	20	18									
KDN 250-400 / 408		23		23	23	23	23	23	23	23	22	21	18								
KDN 250-500 / 440		26				26	26	26	25	25	25	24	22	19							
KDN 250-500 / 480		32				32	32	32	32	32	32	31	30	28							
KDN 250-500 / 518		40				40	40	40	40	40	40	40	39	38	31						
KDN 250-500A / 440		27				27	27	26	25	24	23	20									
KDN 250-500A / 480		33				33	33	33	32	31	30	27	23								
KDN 250-500A / 518		39				39	39	38	38	37	36	34	31	26							
KDN 300-330 / 325/24°		9				9	9	9	9	9	8	8	7	6	5						
KDN 300-330 / 325		12				11	11	11	11	11	10	10	9	9	7						
KDN 300-330 / 345		14				13	13	13	13	13	12	12	12	11	9						
KDN 300-400 / 370		20				20	20	20	20	20	20	19	18	16							
KDN 300-400 / 390		23				23	23	23	22	22	22	21	21	20	17						
KDN 300-400 / 408		26				25	25	25	25	25	25	24	24	23	20						
KDN 300-400A / 340		17					17	16	16	16	16	16	15	14	11						
KDN 300-400A / 355		18				x	18	18	18	18	18	18	17	16	13						
KDN 300-400A / 370		20				x	20	20	20	20	20	20	19	18	16						
KDN 300-400M / 380/350		10				x	10	10	10	10	10	9	9	8	6						
KDN 300-400M / 380		14				x	14	14	14	14	14	13	13	12	10	6					
KDN 300-400M / 395		16				x	16	16	16	16	16	15	15	14	12	9					
KDN 300-400M / 408		18				x	18	18	18	18	18	17	17	16	15	11					
KDN 350-500 / 460/430		22							22	22	21	21	21	21	20	20	17	16	14		
KDN 350-500 / 460		27							27	27	27	27	26	26	26	25	22	21	19		
KDN 350-500 / 490		31							31	31	31	31	31	30	30	29	26	26	24	23	21
KDN 350-500 / 518		36							36	36	36	36	36	36	35	35	33	32	31	30	28
KDN 350-500A / 405/16°		18							18	18	18	18	18	18	17	16	9				
KDN 350-500A / 405/435		22							22	22	22	22	22	22	22	20	16	14			
KDN 350-500A / 435		26							26	26	26	26	25	25	25	24	20	18	16		
KDN 350-500A / 465		29							29	29	29	29	29	29	28	27	24	23	21	19	

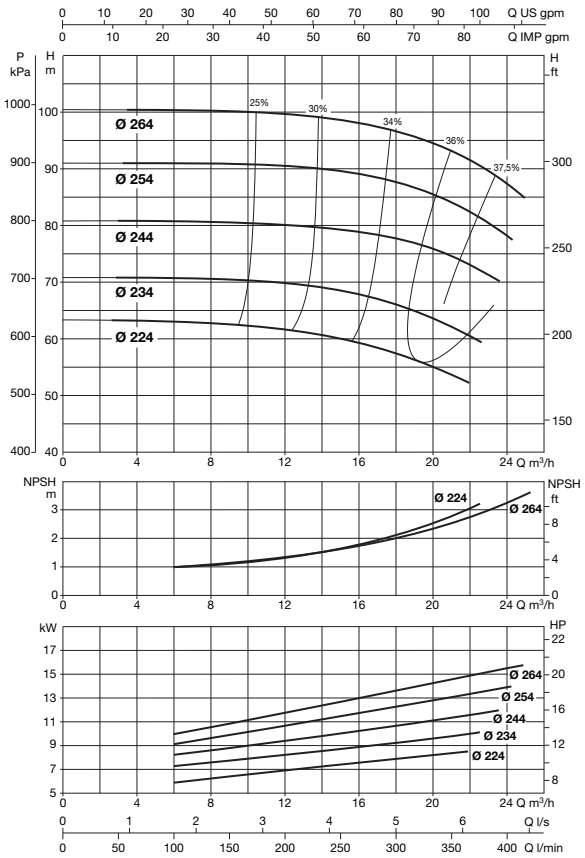
KDN 32-250A

= 2900 1/min



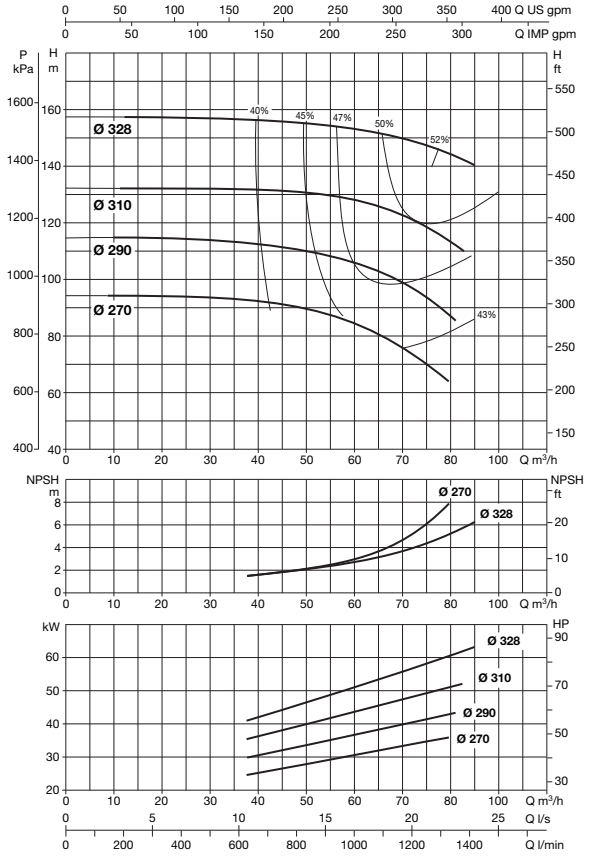
KDN 32-250

= 2900 1/min



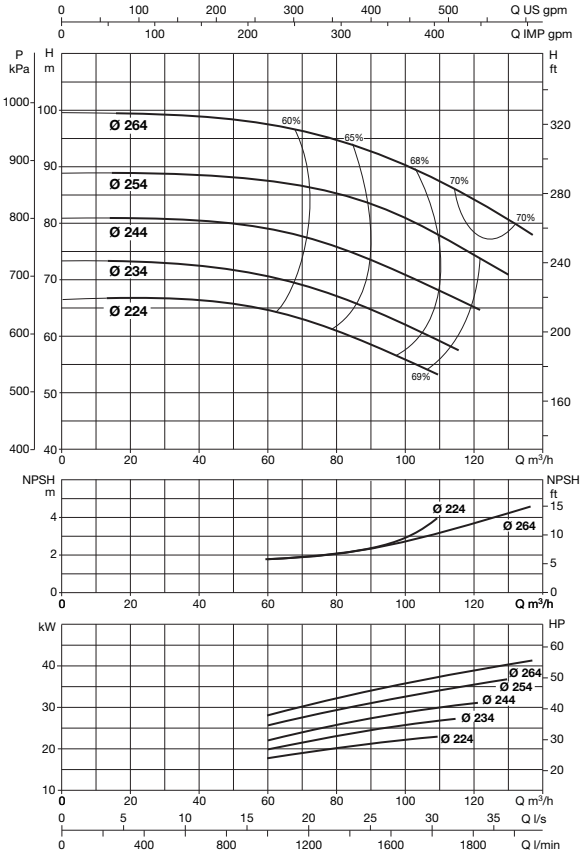
KDN 50-330

= 2900 1/min



KDN 65-250

= 2900 1/min



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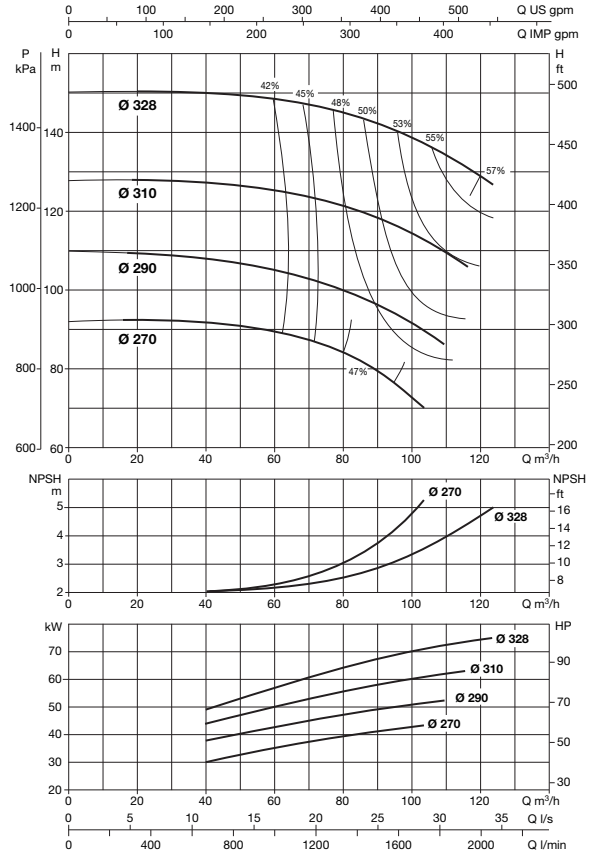
DAB PUMP PERFORMANCE

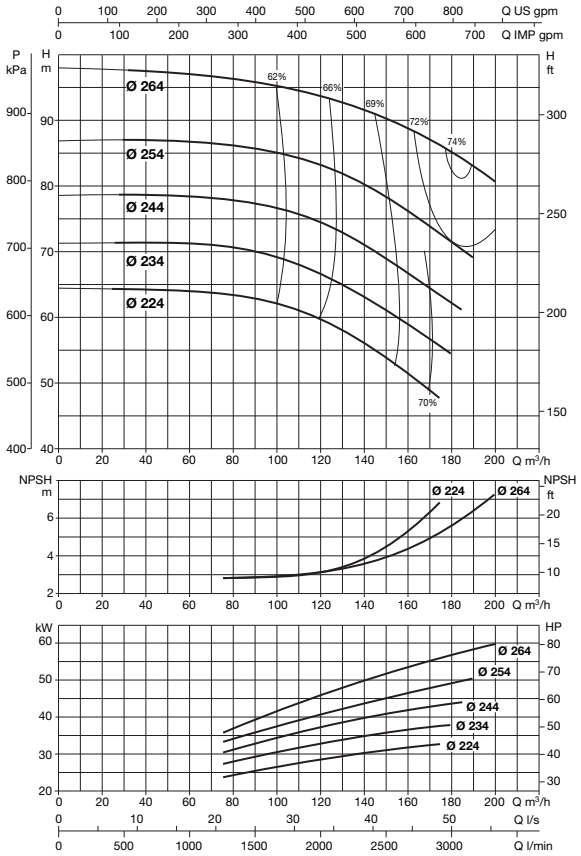
KDN 65-330

= 2900 1/min



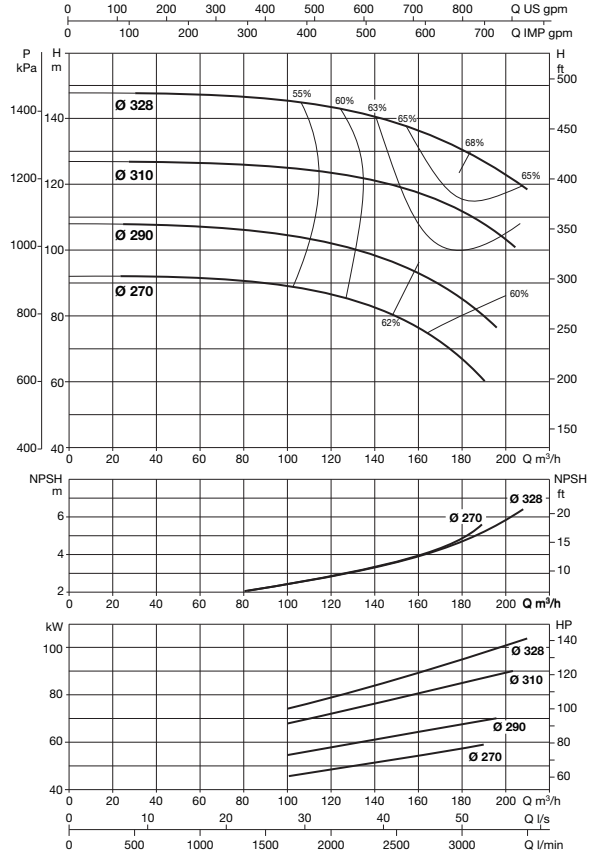
KDN 80-250

= 2900 1/min



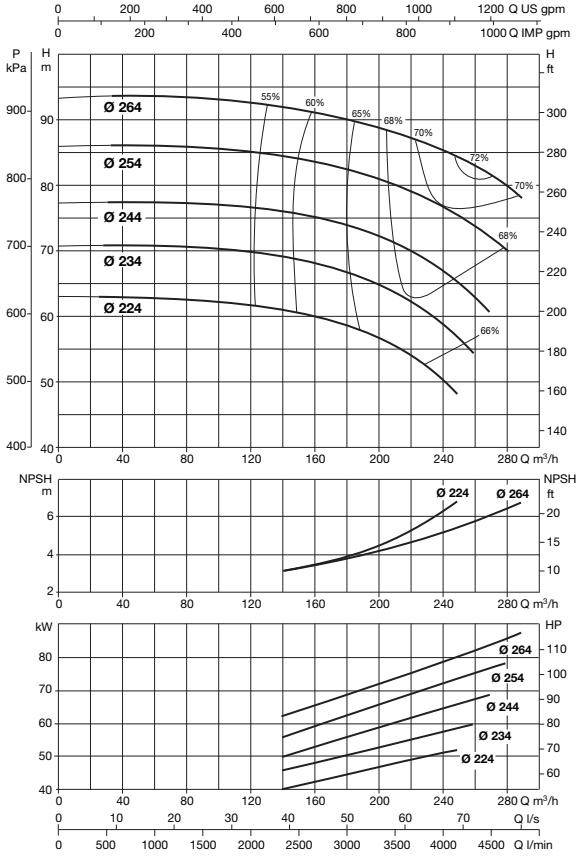
KDN 80-330

= 2900 1/min

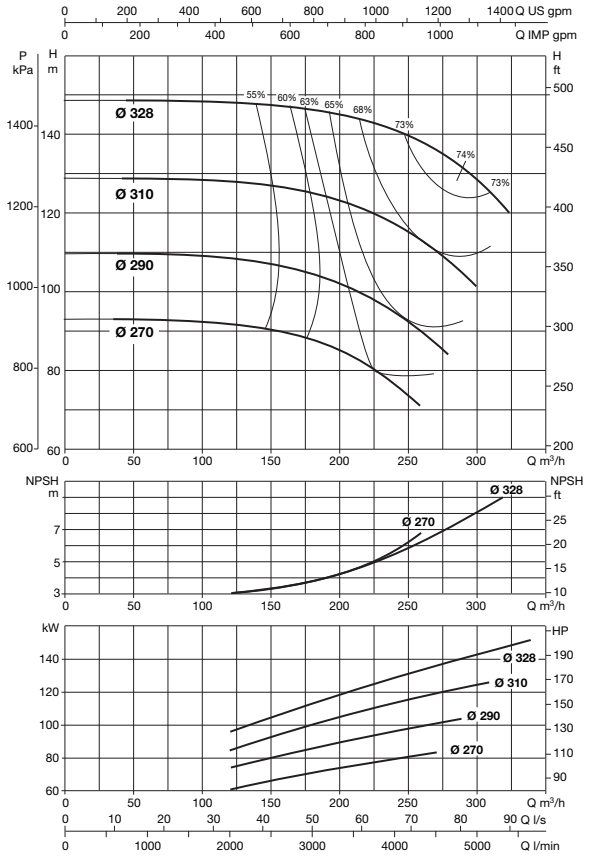


KDN 100-250

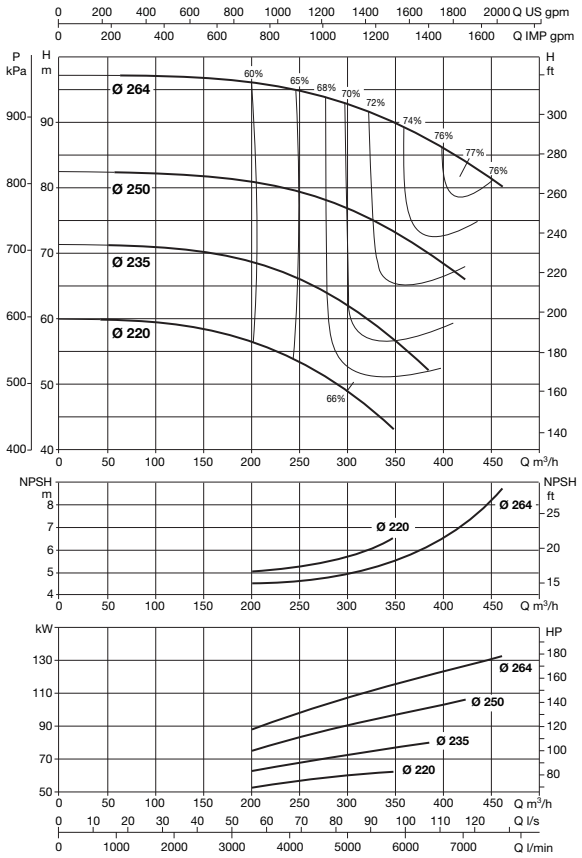
= 2900 1/min



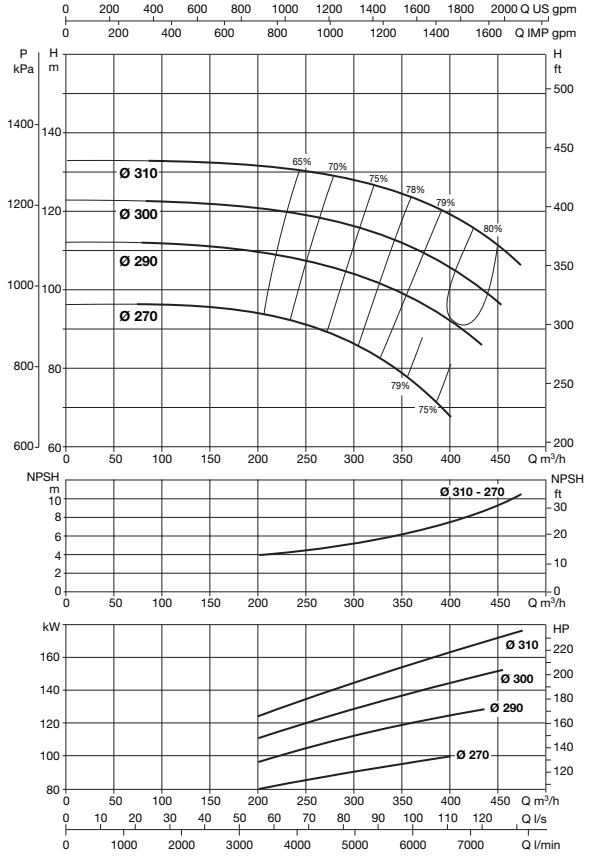
KDN 100-330 = 2900 1/min



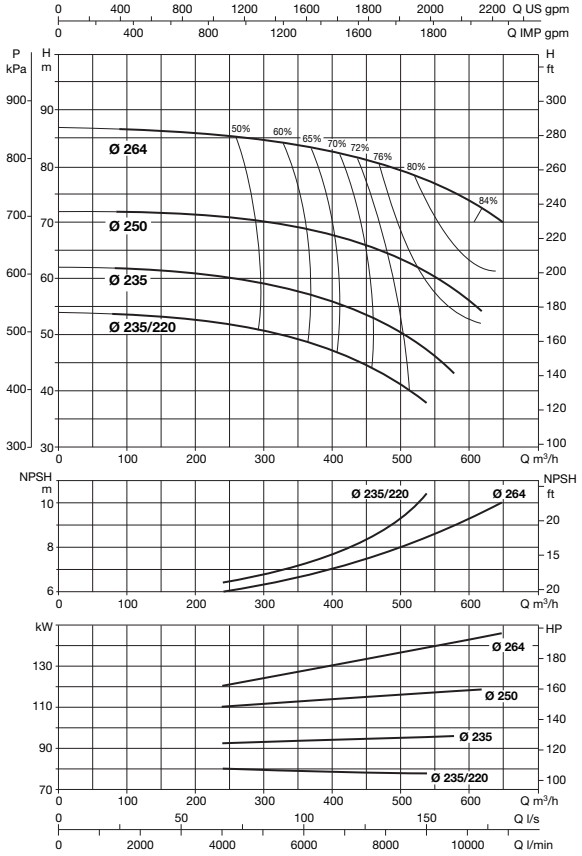
KDN 125-250 = 2900 1/min



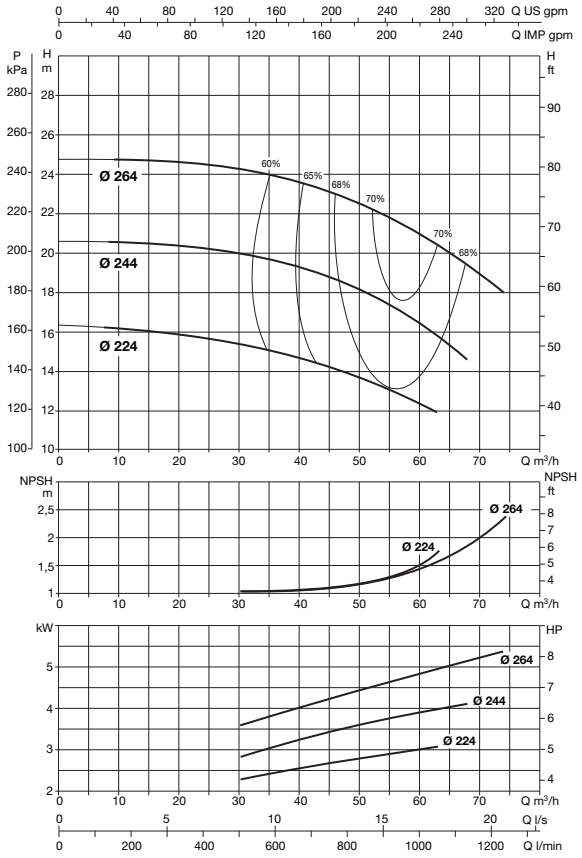
KDN 125-330 = 2900 1/min



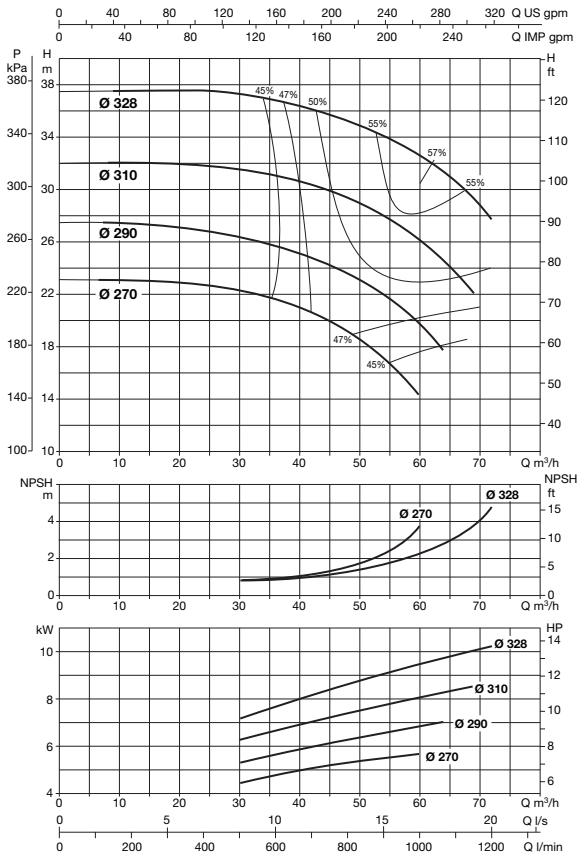
KDN 150-250 = 2900 1/min



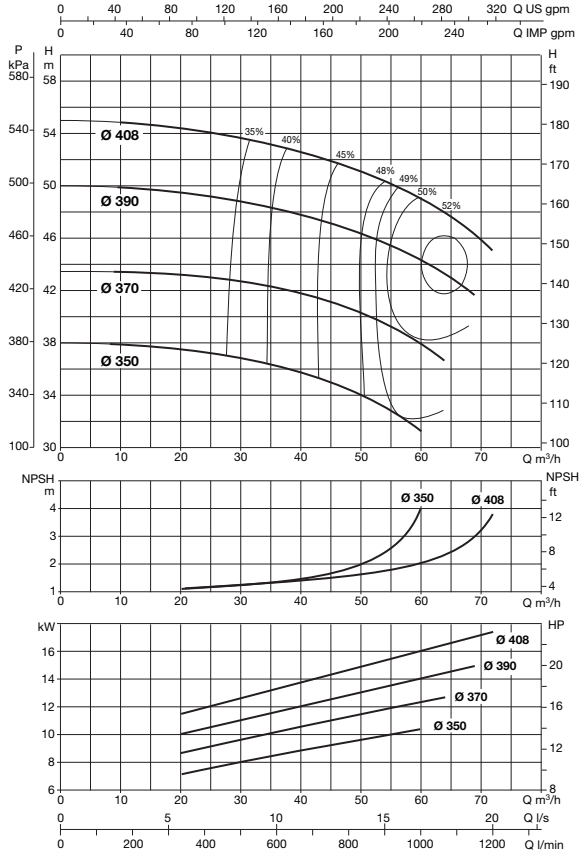
KDN 65-250 = 1450 1/min



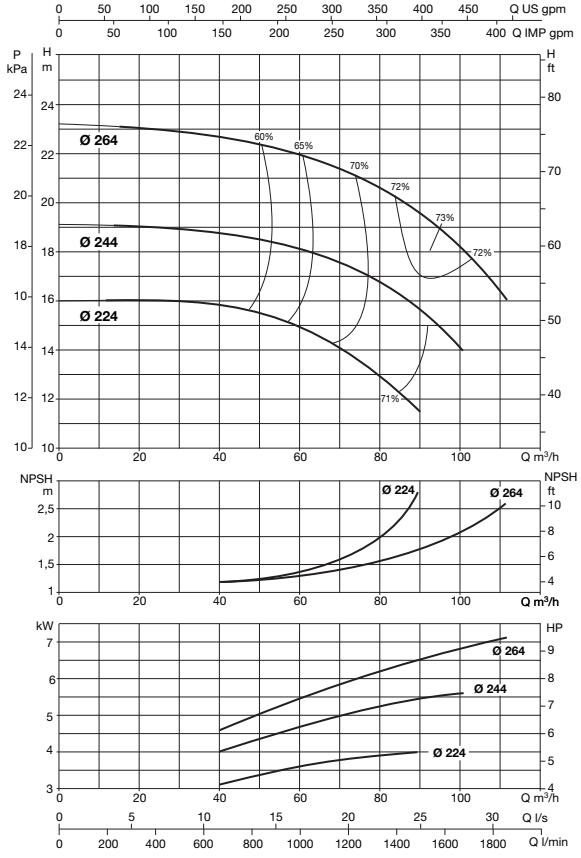
KDN 65-330 = 1450 1/min



KDN 65-400 = 1450 1/min

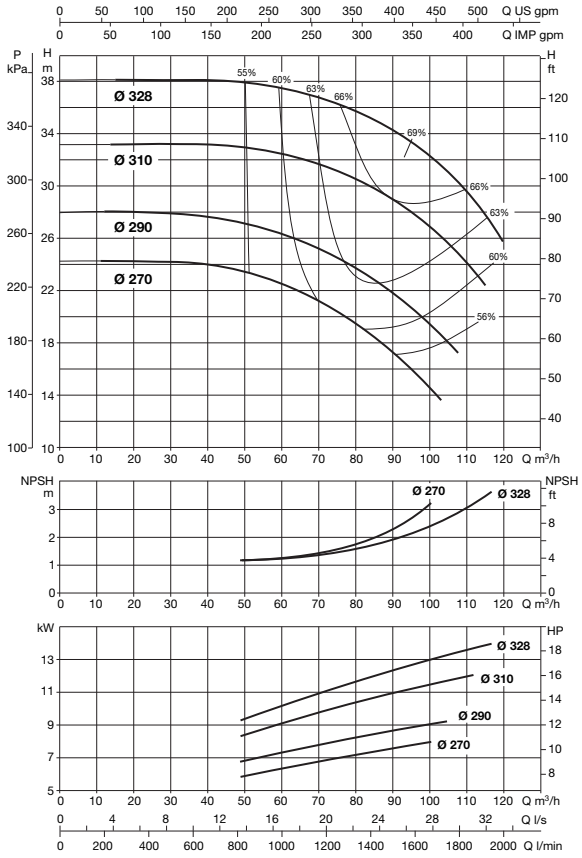


KDN 80-250 = 1450 1/min



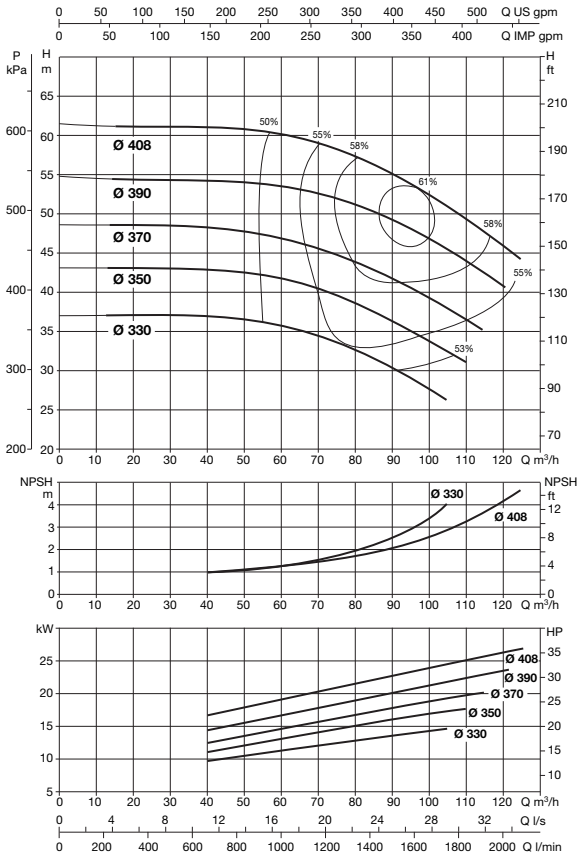
KDN 80-330

= 1450 1/min



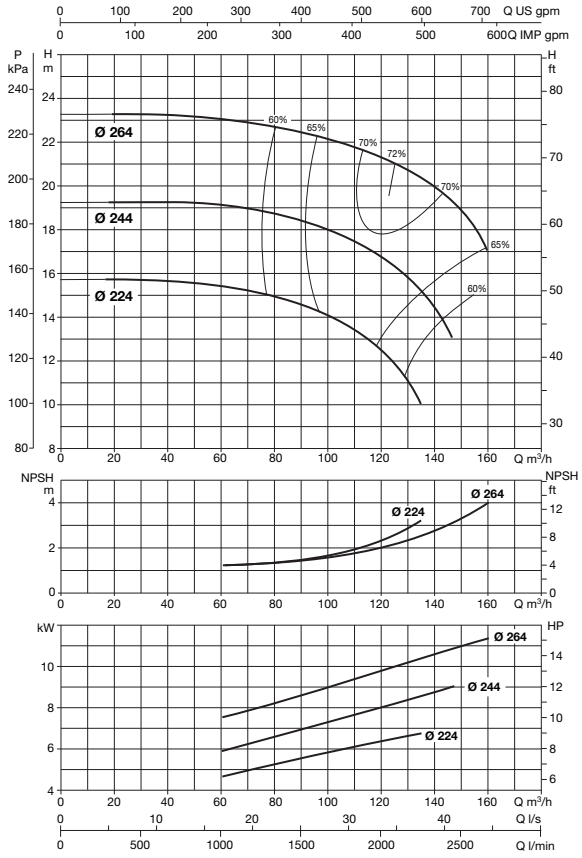
KDN 80-400

= 1450 1/min



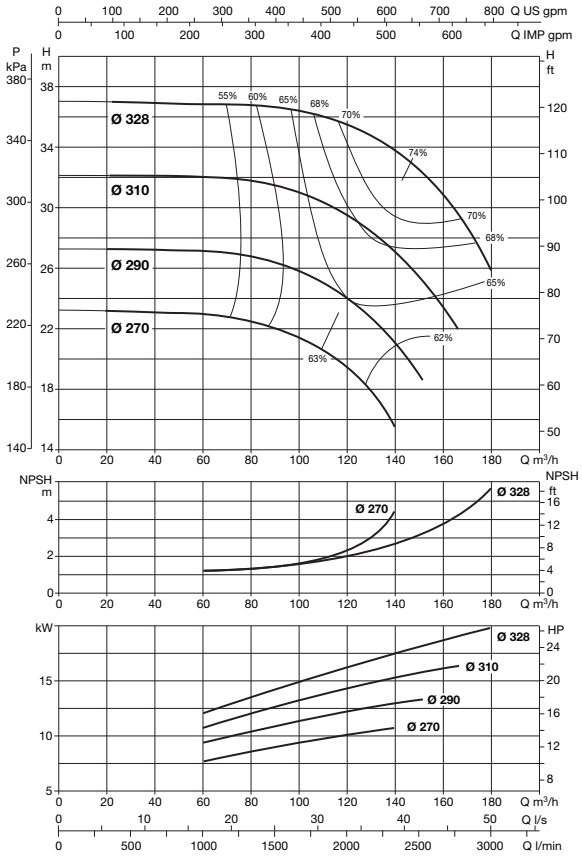
KDN 100-250

= 1450 1/min



KDN 100-330

= 1450 1/min



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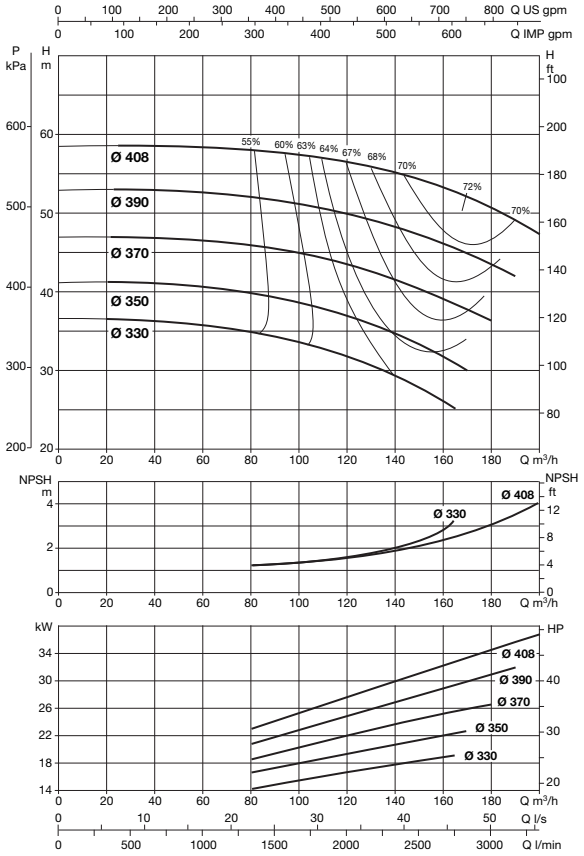
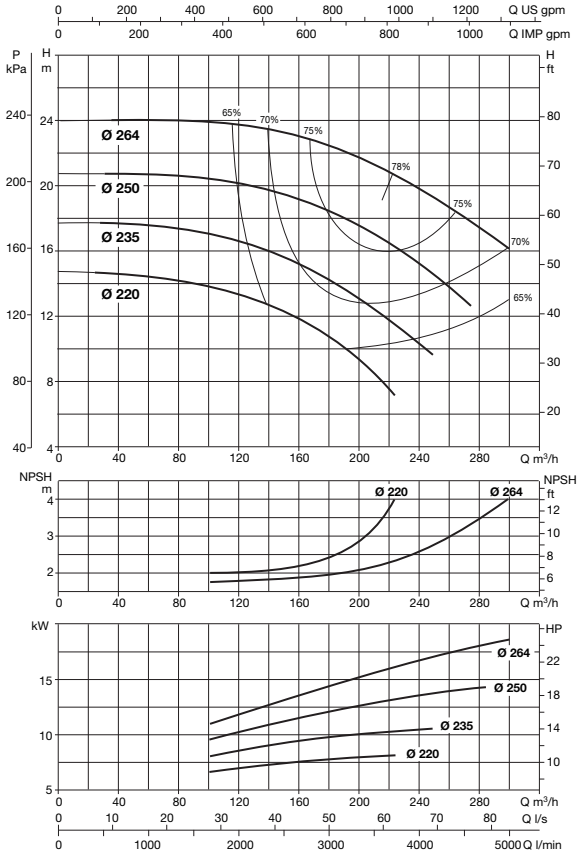
KDN 100-400

= 1450 1/min



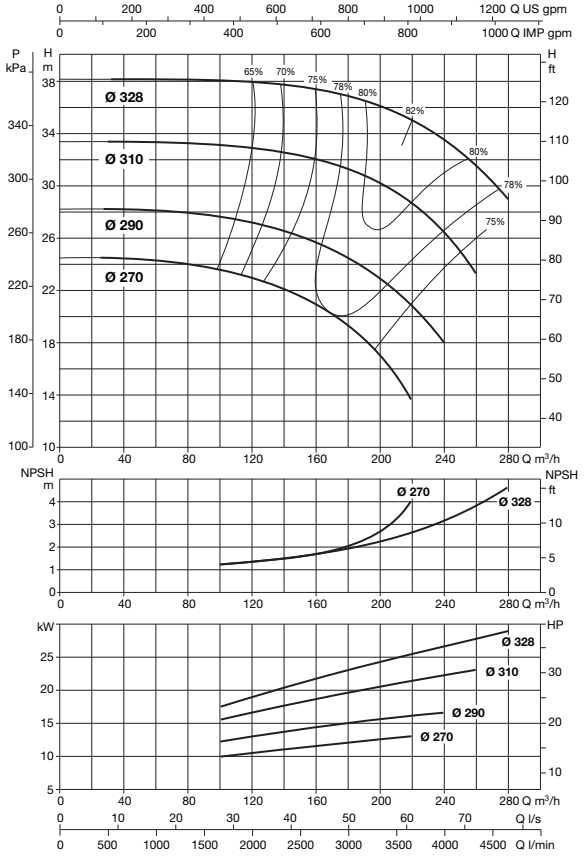
KDN 125-250

= 1450 1/min



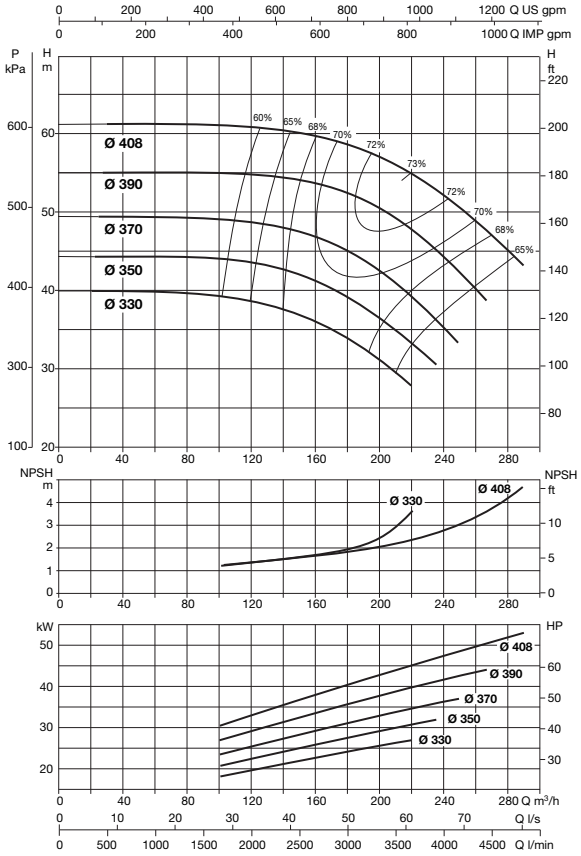
KDN 125-330

= 1450 1/min

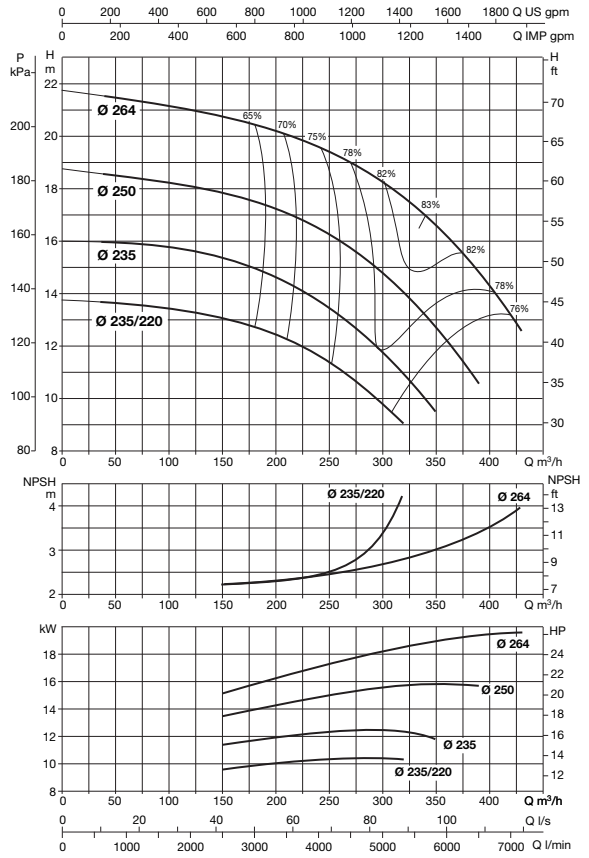


KDN 125-400

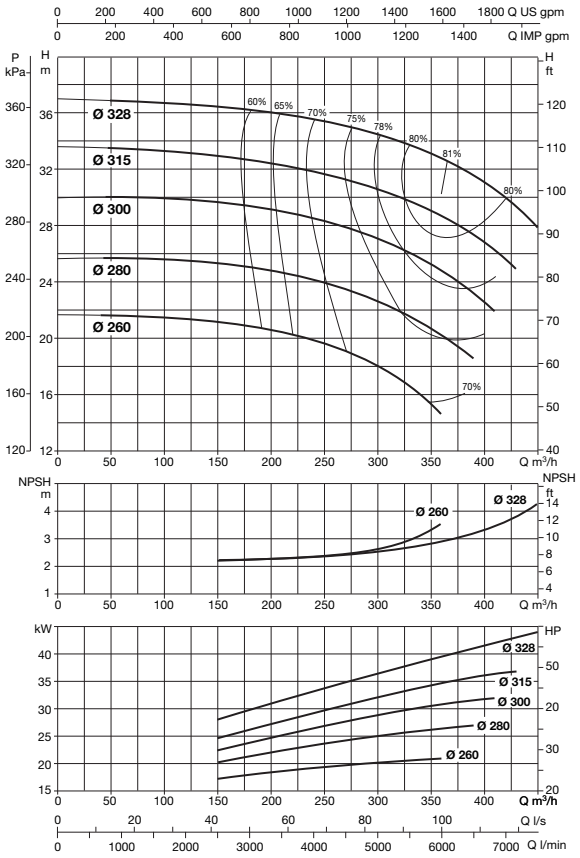
= 1450 1/min



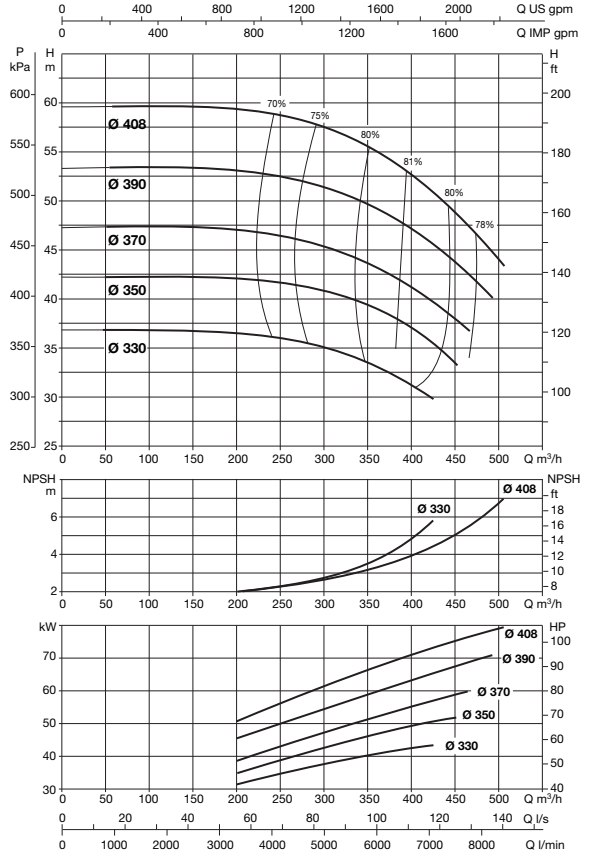
KDN 150-250 = 1450 1/min



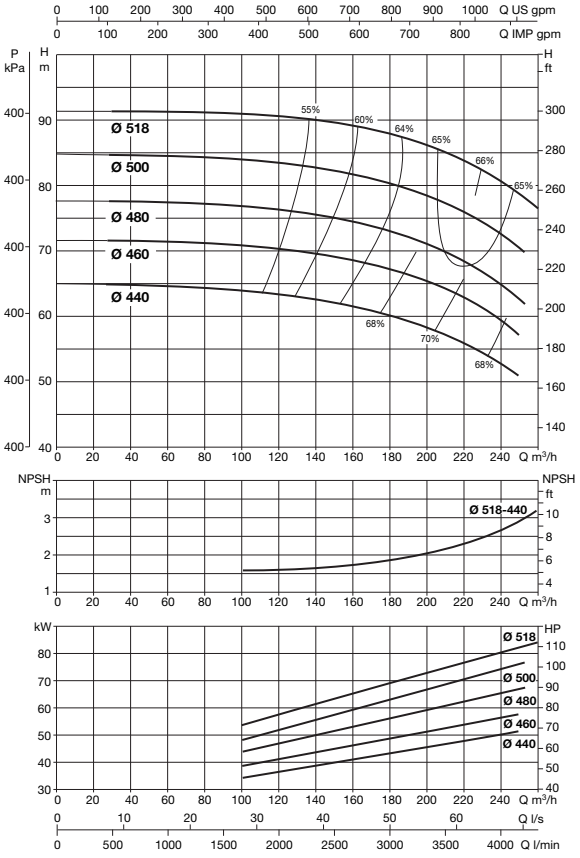
KDN 150-330 = 1450 1/min



KDN 150-400 = 1450 1/min



KDN 150-500A = 1450 1/min



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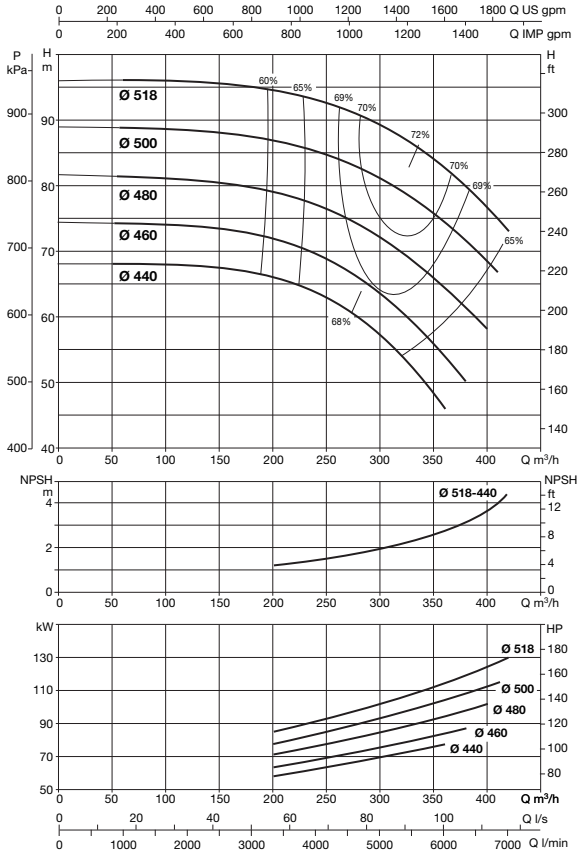
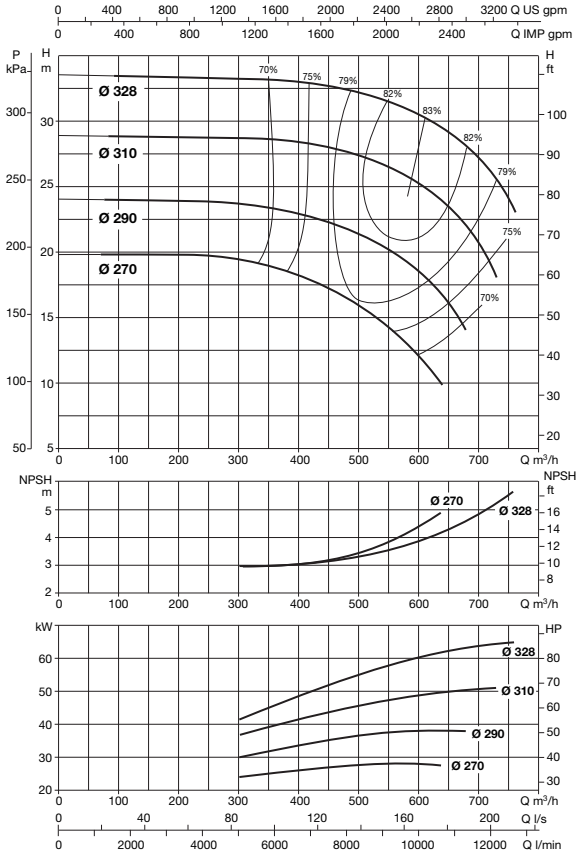
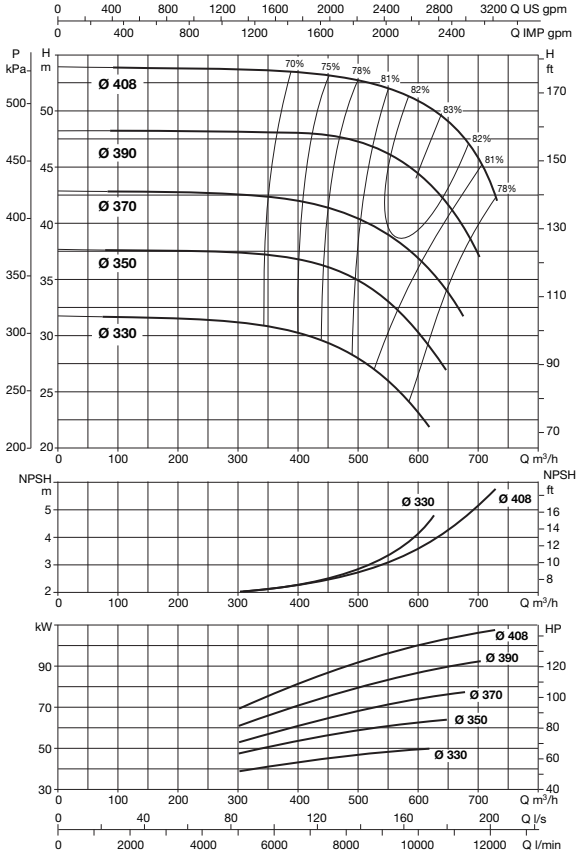
KDN 150-500 = 1450 1/min



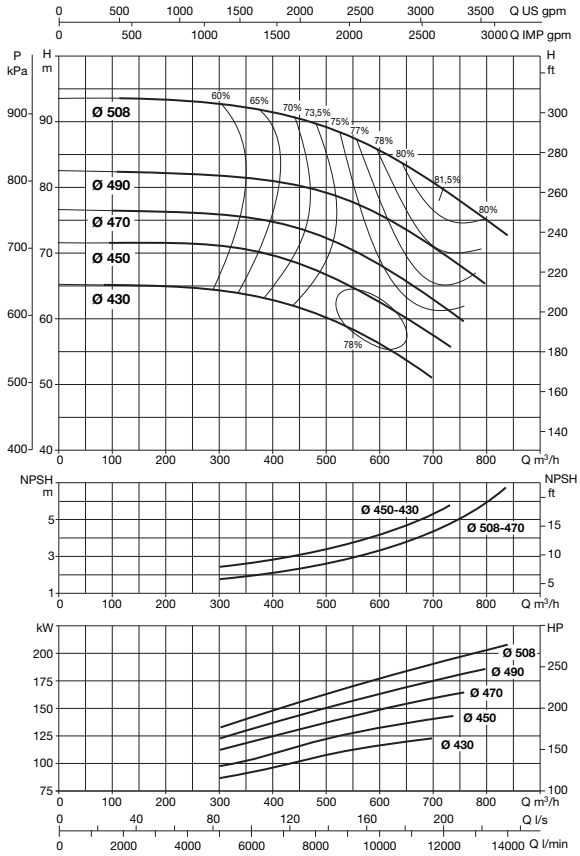
KDN 200-330 = 1450 1/min



KDN 200-400 = 1450 1/min

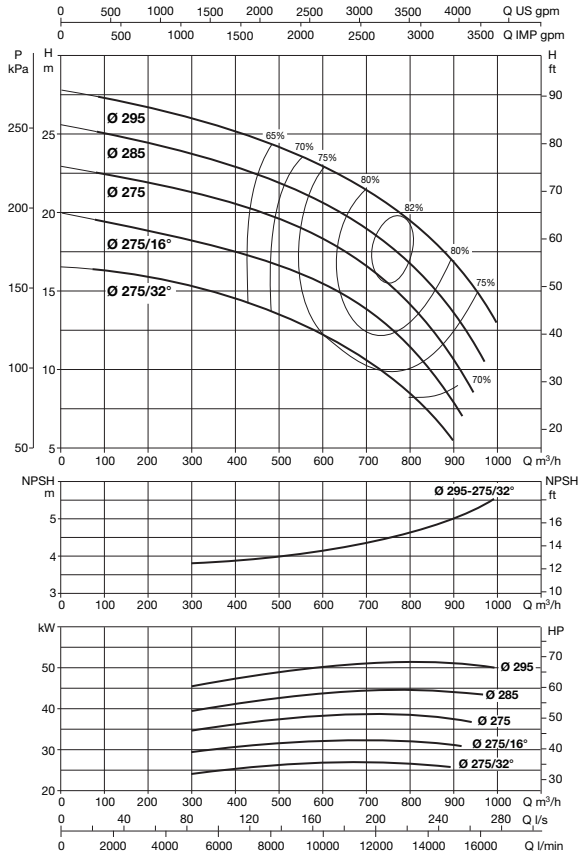


KDN 200-500 = 1450 1/min



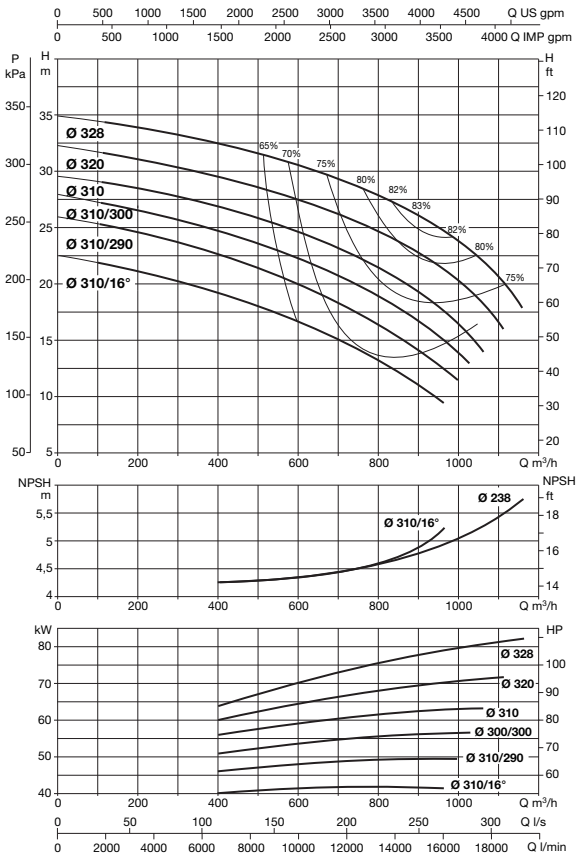
KDN 250-330A

= 1450 1/min



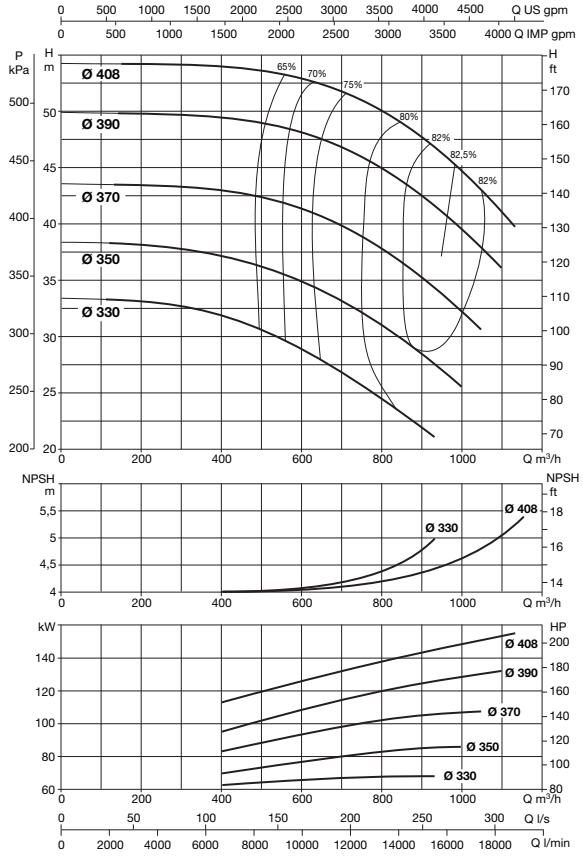
KDN 250-330

= 1450 1/min



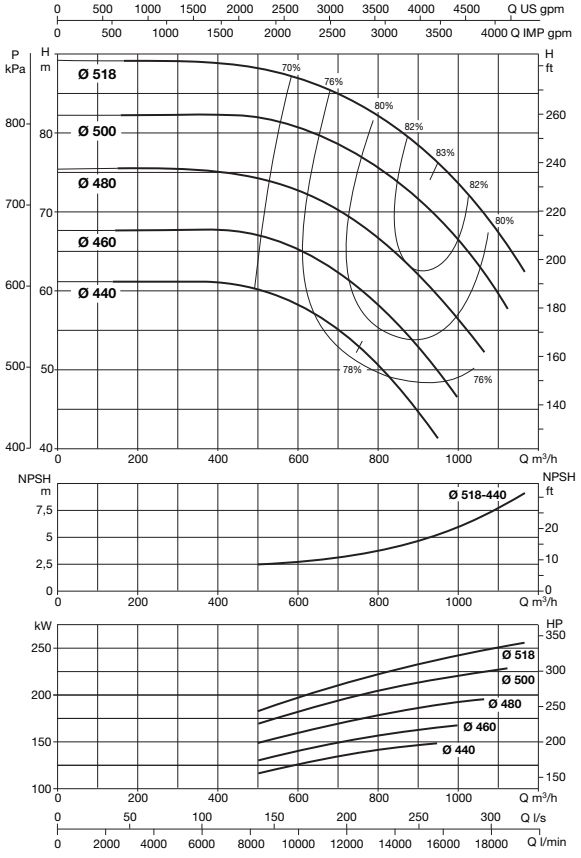
KDN 250-400

= 1450 1/min



KDN 250-500A

= 1450 1/min



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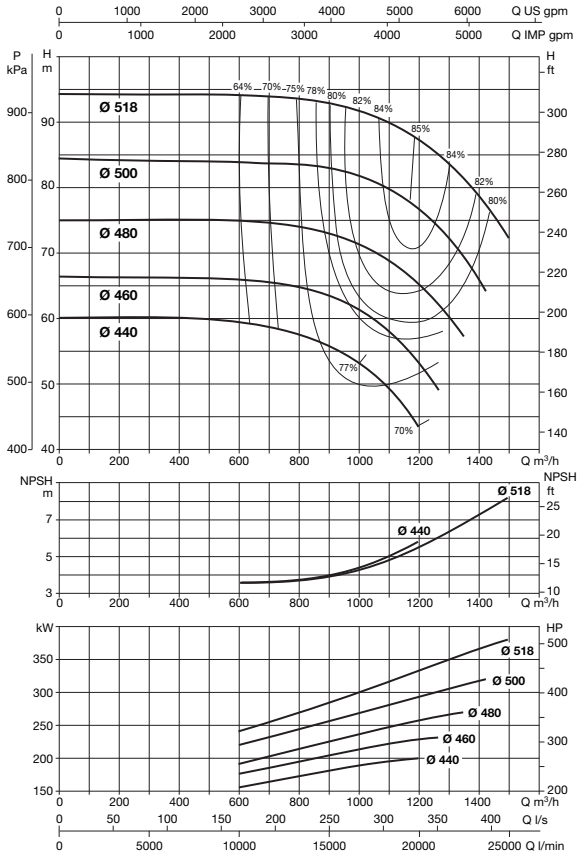
DAB PUMP PERFORMANCE

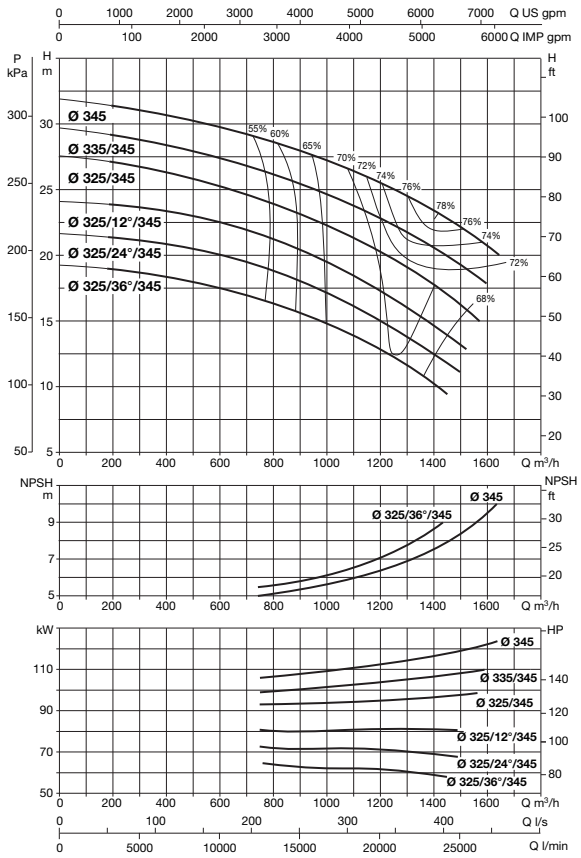
KDN 250-500

= 1450 1/min



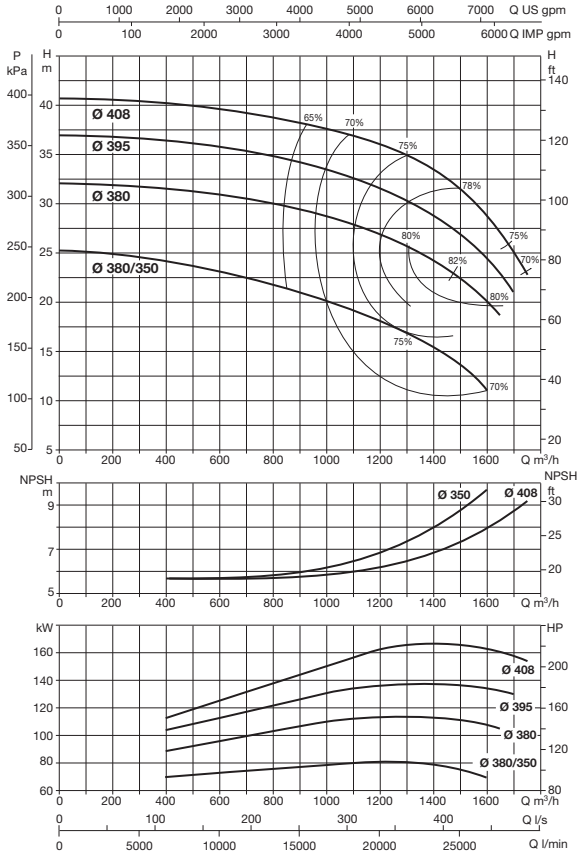
KDN 300-330

= 1450 1/min



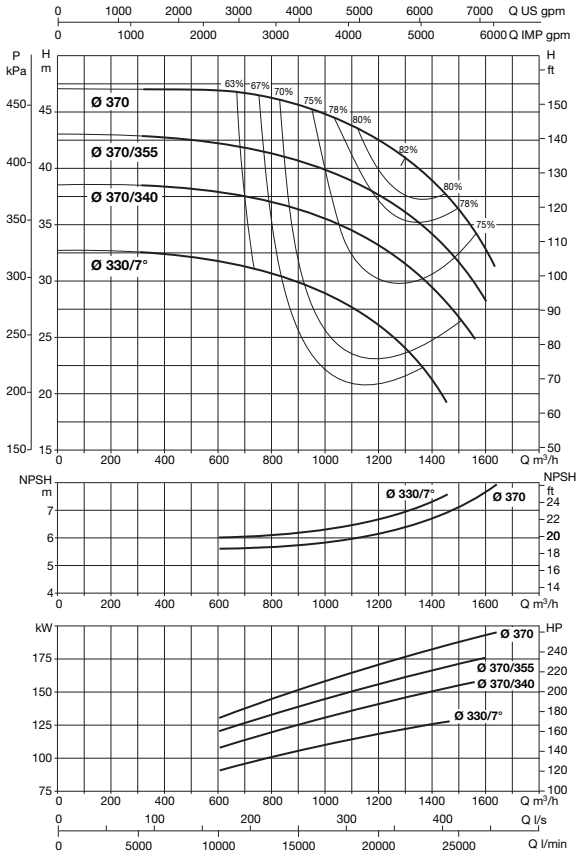
KDN 300-400M

= 1450 1/min

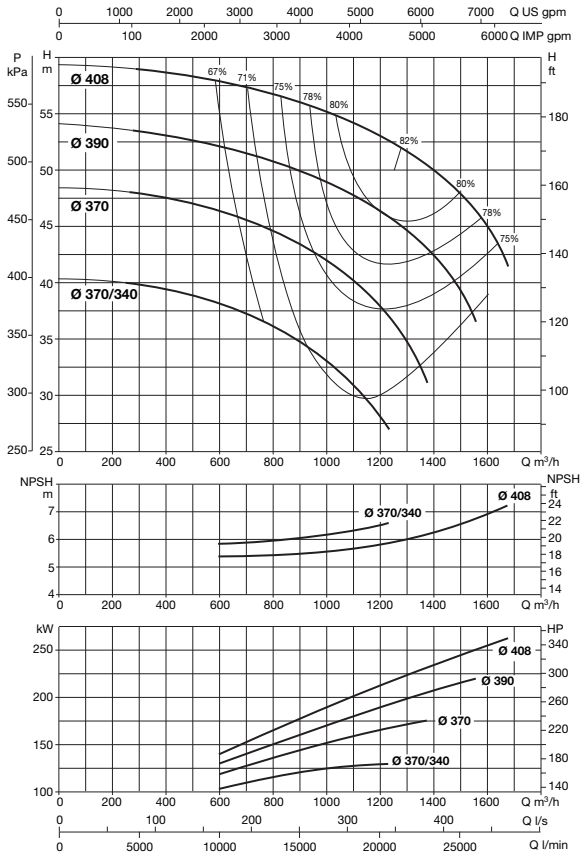


KDN 300-400A

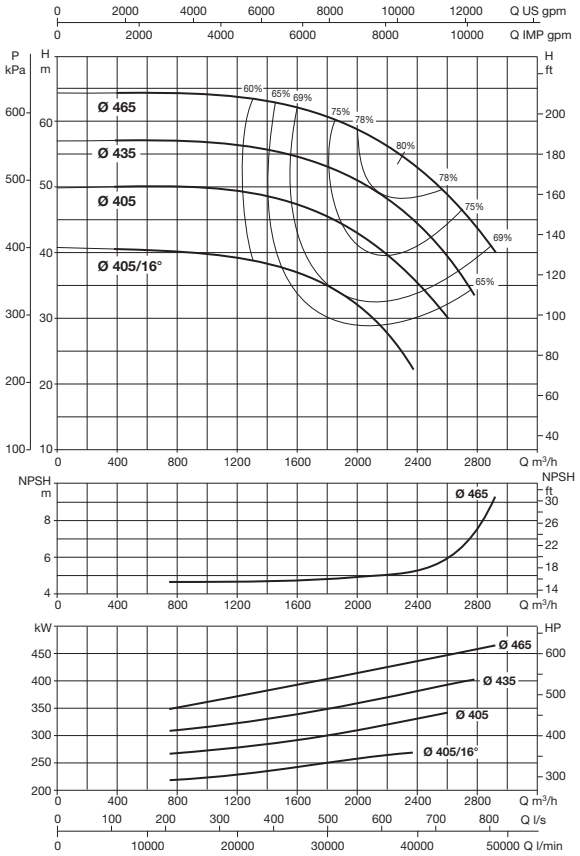
= 1450 1/min



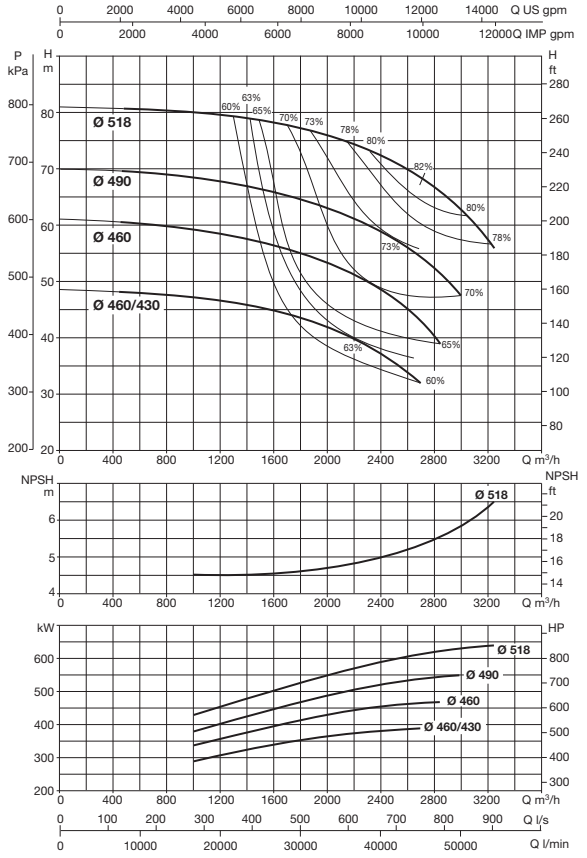
KDN 300-400 = 1450 1/min



KDN 350-500A = 1450 1/min



KDN 350-500 = 1450 1/min



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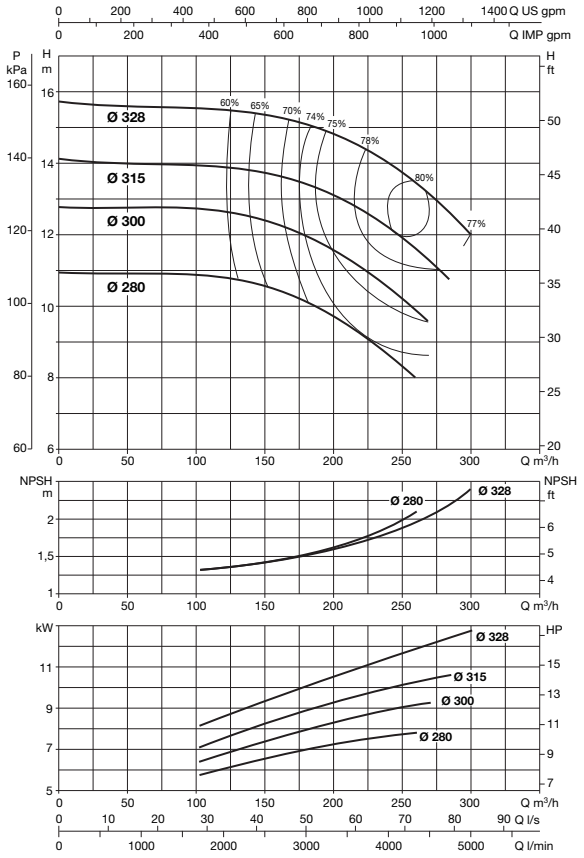
DAB PUMP PERFORMANCE

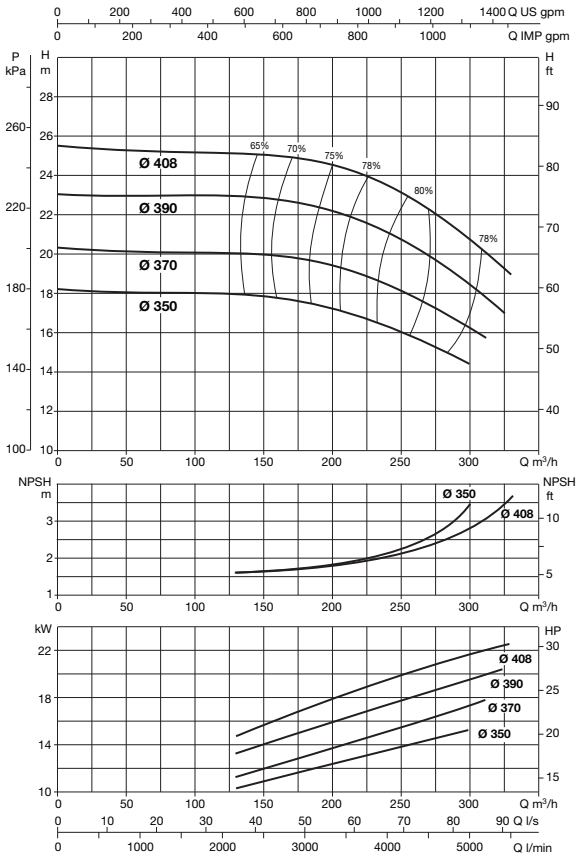
KDN 150-330

= 970 1/min



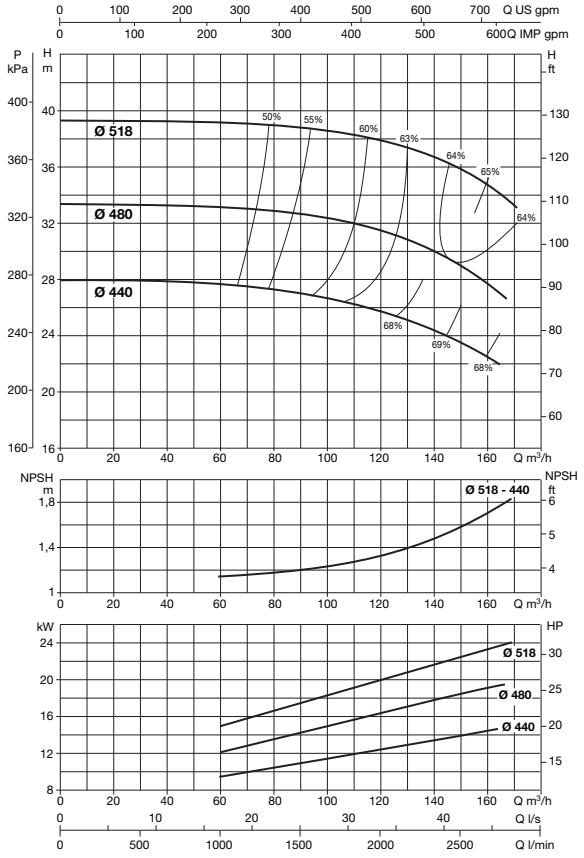
KDN 150-400

= 970 1/min



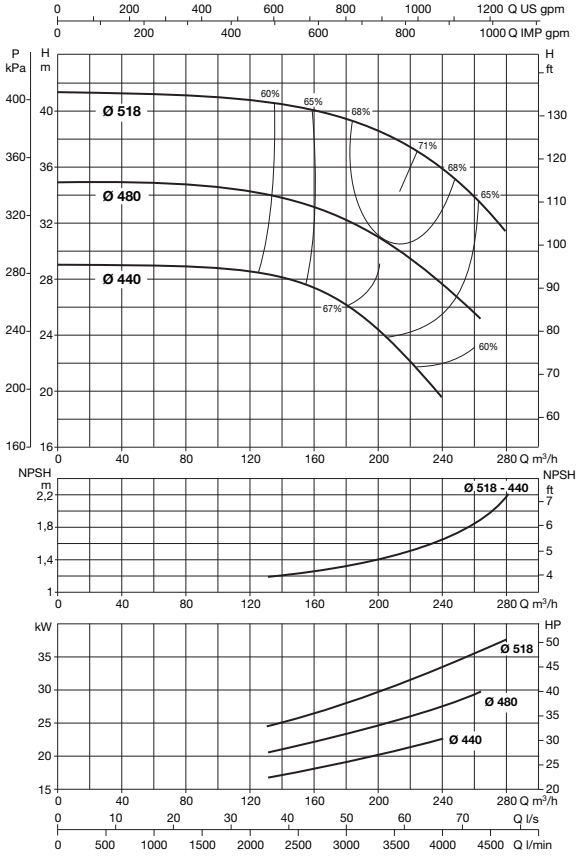
KDN 150-500A

= 970 1/min



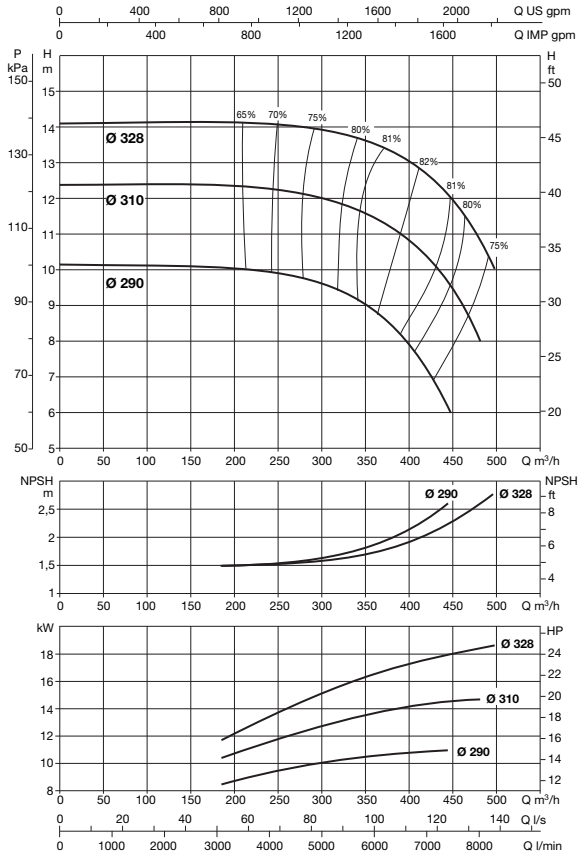
KDN 150-500

= 970 1/min



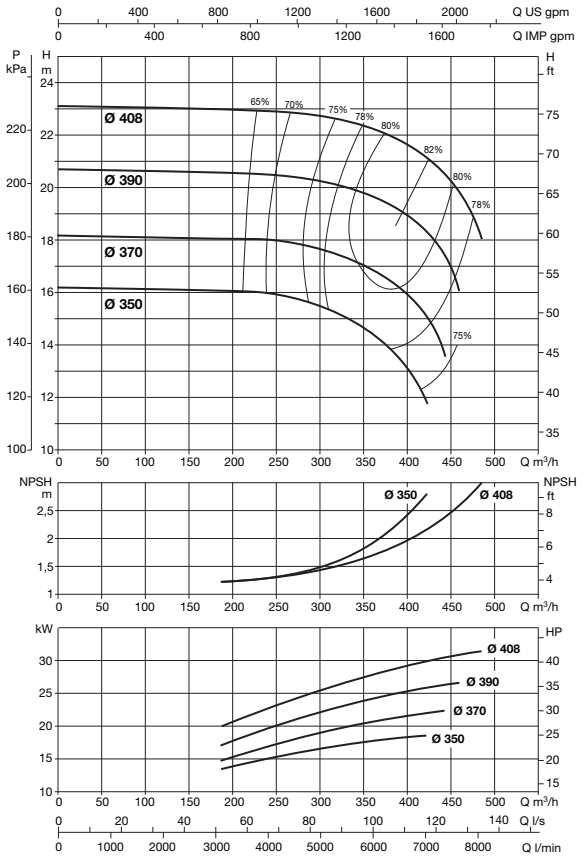
KDN 200-330

= 970 1/min



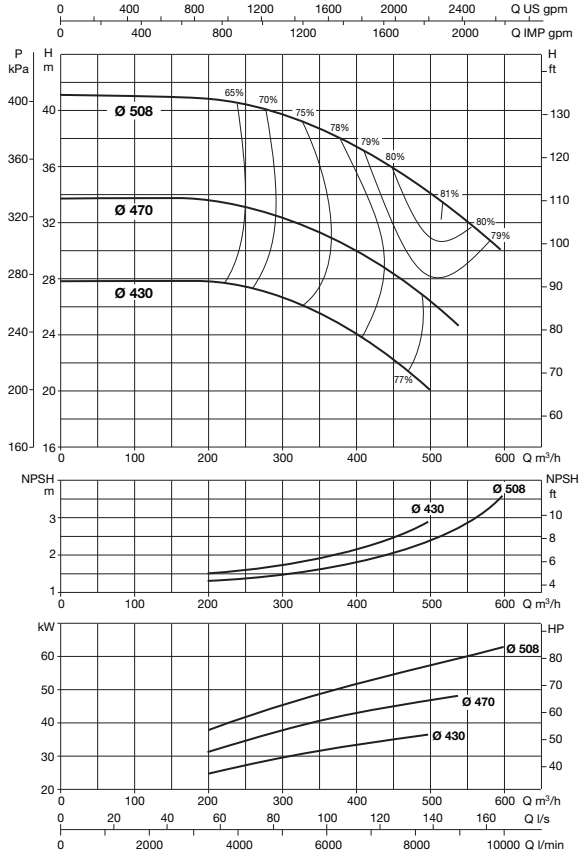
KDN 200-400

= 970 1/min



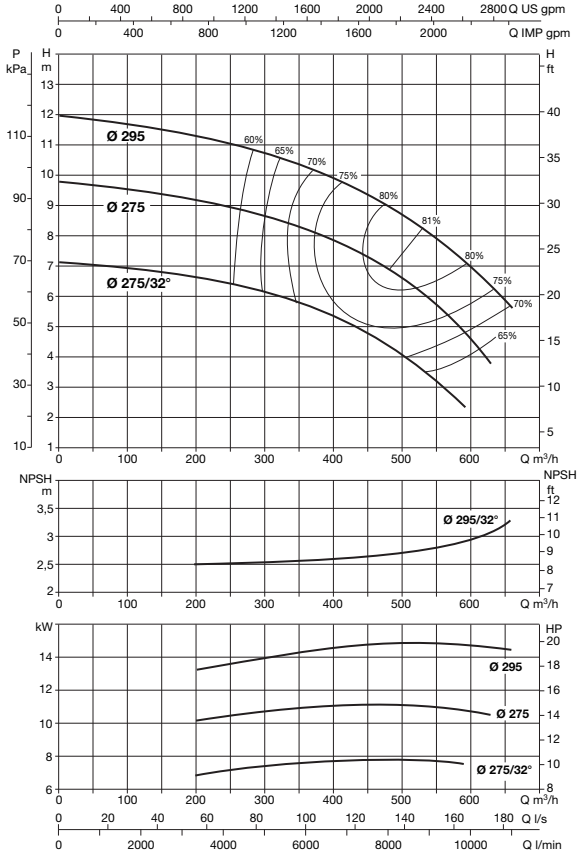
KDN 200-500

= 970 1/min



KDN 250-330A

= 970 1/min



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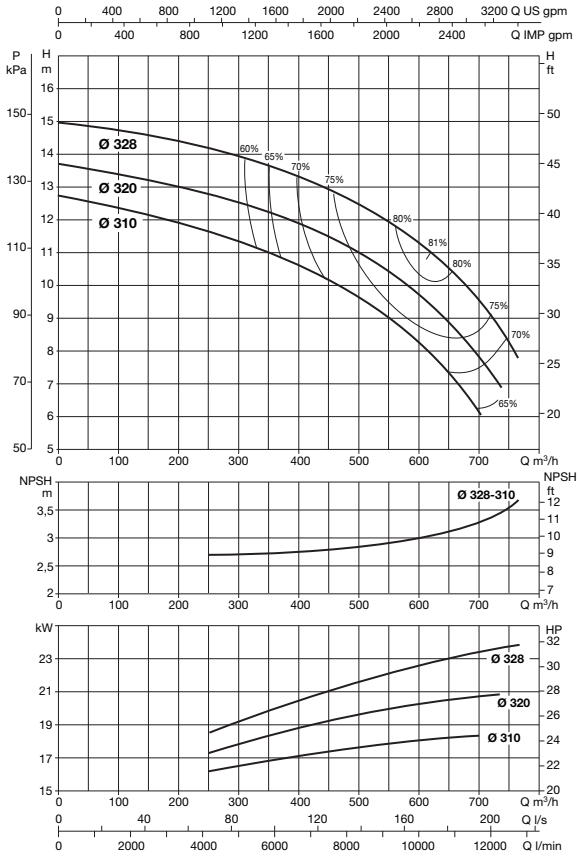
DAB PUMP PERFORMANCE

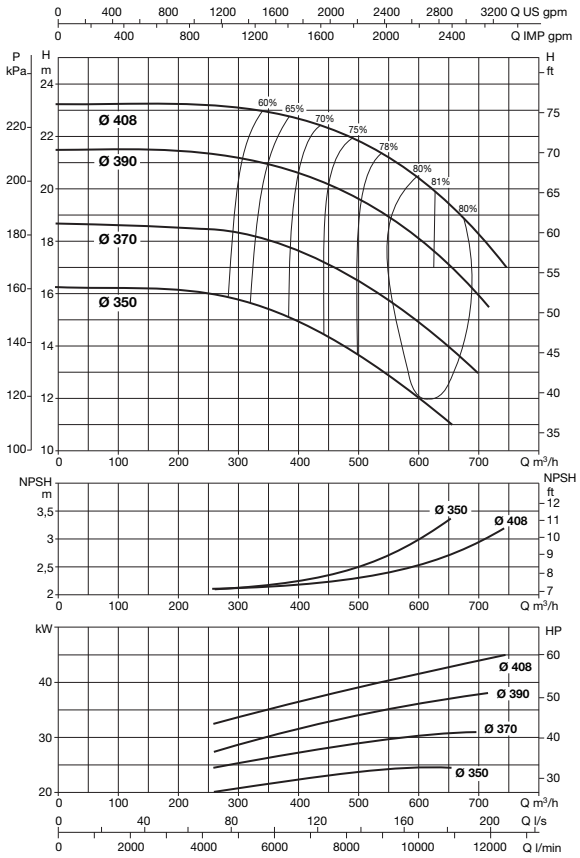
KDN 250-330

= 970 1/min



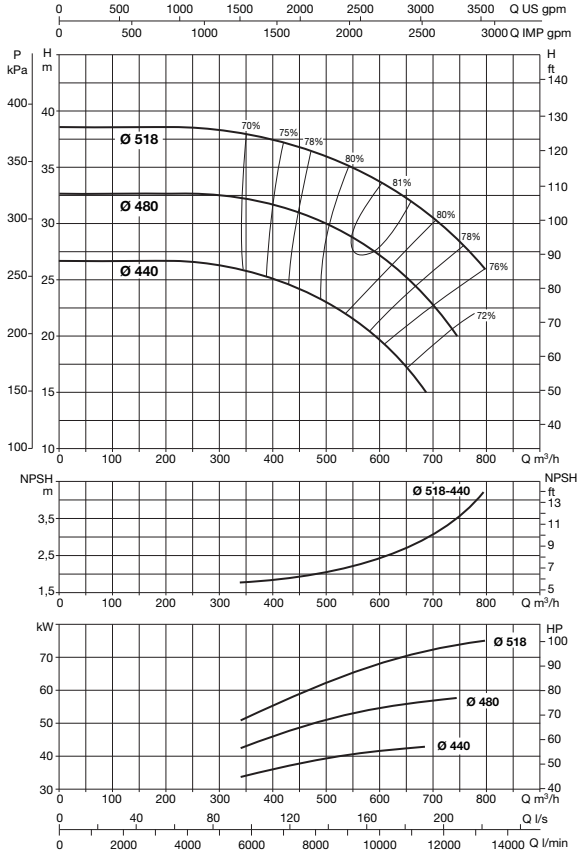
KDN 250-400

= 970 1/min



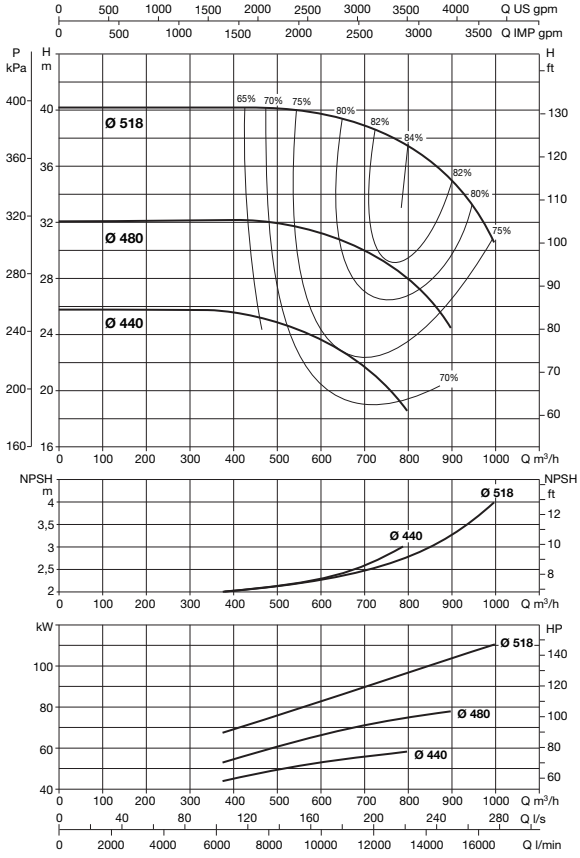
KDN 250-500A

= 970 1/min



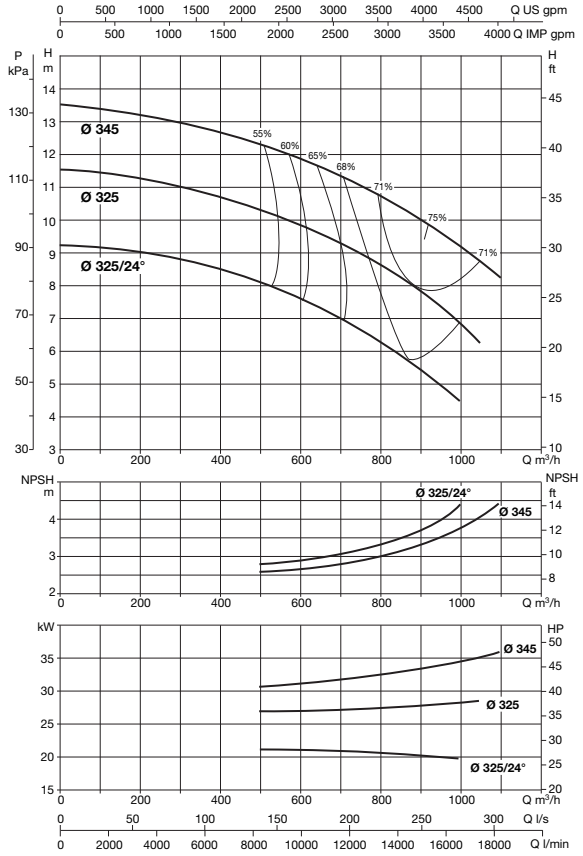
KDN 250-500

= 970 1/min



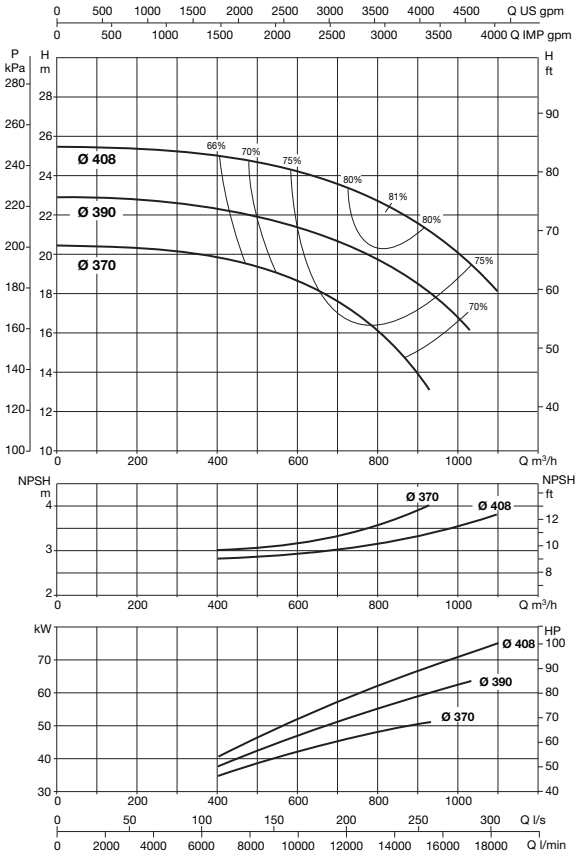
KDN 300-330

= 970 1/min



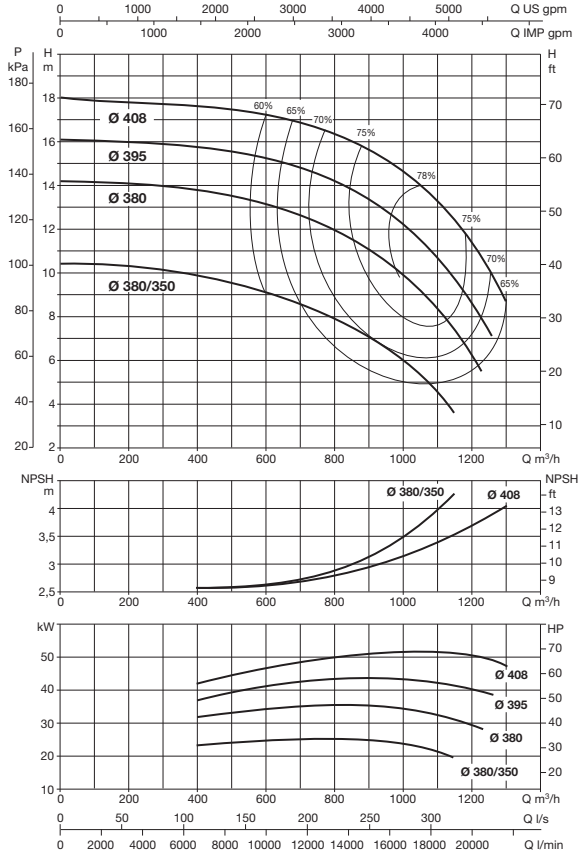
KDN 300-400

= 970 1/min



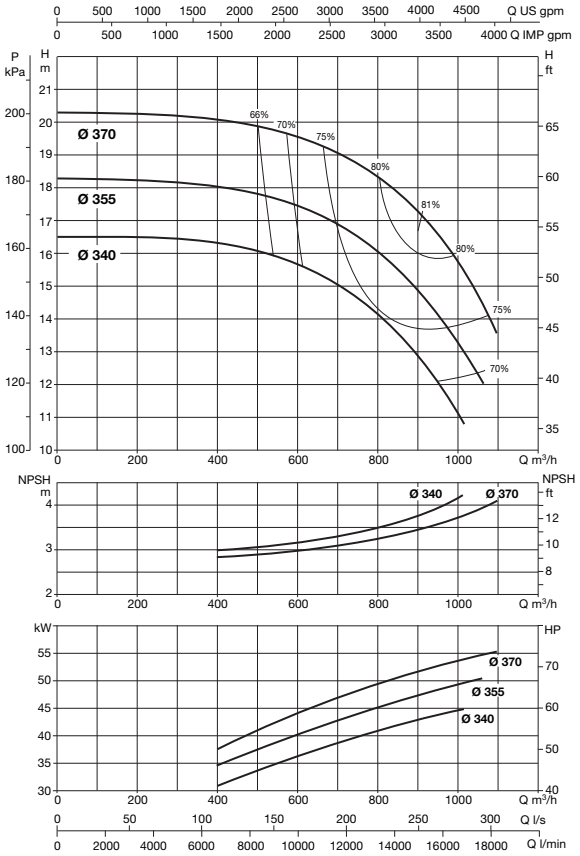
KDN 300-400M

= 970 1/min



KDN 300-400A

= 970 1/min



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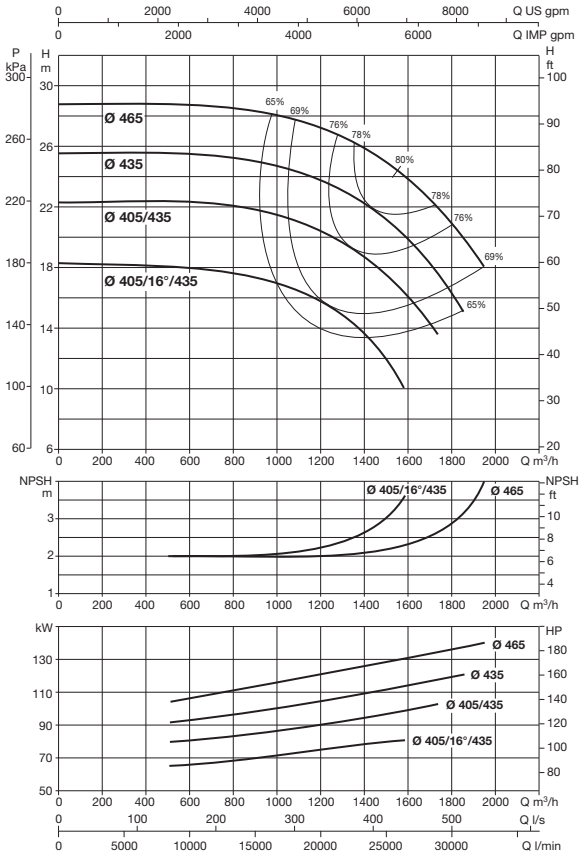
DAB PUMP PERFORMANCE

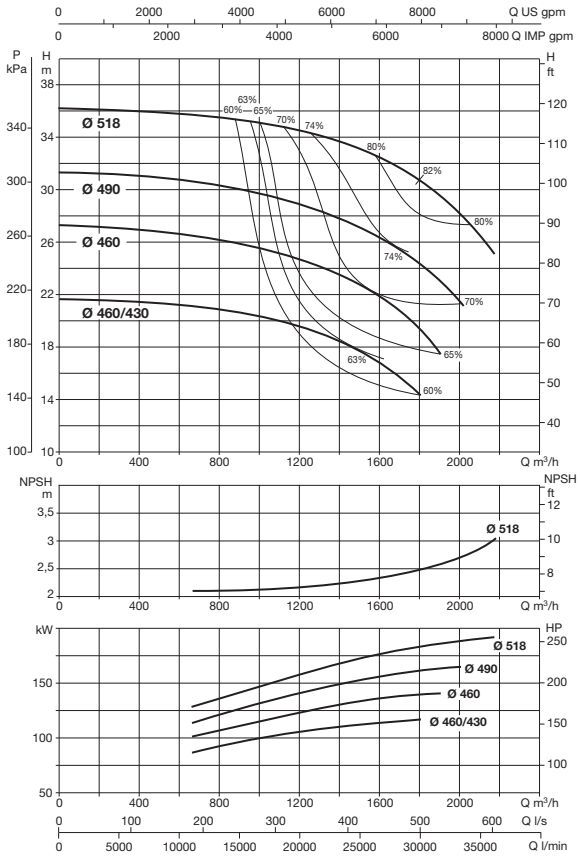
KDN 350-500A

= 970 1/min



KDN 350-500

= 970 1/min



COUNTERFLANGE KIT

Available on request separately from the pump.
The kit comprises intake and delivery counterflanges with the relative gaskets, screws and nuts required by the size of the pump to which it refers.

ITEM	COUNTERFLANGES AND GASKETS	THREADED	TO WELD	MATERIAL	PN
DIN 65	1xDN 65 + 1xDN 80	NO	YES	STEEL	16
DIN 80	1xDN 80 + 1xDN 100	NO	YES	STEEL	16
DIN 100	1xDN 100 + 1xDN 125	NO	YES	STEEL	16
DIN 125	1xDN 125 + 1xDN 150	NO	YES	STEEL	16
DIN 150	1xDN 150 + 1xDN 200	NO	YES	STEEL	16 (10xDN 200)
DIN 200	1xDN 200 + 1xDN 250	NO	YES	STEEL	16 (10xDN 200)
DIN 250	1xDN 250 + 1xDN 250	NO	YES	STEEL	10
DIN 250/1	1xDN 250 + 1xDN 300	NO	YES	STEEL	10
DIN 300	1xDN 300 + 1xDN 300	NO	YES	STEEL	10

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STANDARD MOTORS ELECTRICAL DATA

2 POLES (400 V) = 2900 1/min

MOTOR TYPE	Power kW	Speed R.p.m.	Efficiency %	Power factor Cos. φ	In A	Starting current Ia/In	Starting torque Ma/Mn	Maximum torque M/k/Mn
MEC 200L	37	2950	92	0,89	65	7,9	2,6	3,3
MEC 225M	45	2970	92,5	0,89	78	7,9	2,5	3,2
MEC 250M	55	2960	93	0,9	95	6,2	1,9	2,7
MEC 280S	75	2980	93,6	0,88	128	6,6	2,3	3,2
MEC 280M	90	2980	93,9	0,89	160	7,1	2,6	3,3
MEC 315S	110	2980	94	0,89	188	6,2	2,0	3,1
MEC 315M	132	2980	94,5	0,9	222	5,9	1,9	2,9
MEC 315L	160	2980	94,6	0,91	265	5,9	1,9	3,0
MEC 315L	200	2970	94,8	0,92	330	5,8	1,9	2,9
MEC 355M	250	2980	95,3	0,91	415	6,8	1,9	3,3
MEC 355L	315	2980	95,6	0,91	515	6,8	1,9	3,3

4 POLES (400 V) = 1450 1/min

MOTOR TYPE	Power kW	Speed R.p.m.	Efficiency %	Power factor Cos. φ	In A	Starting current Ia/In	Starting torque Ma/Mn	Maximum torque M/k/Mn
MEC 160M	11	1540	88,4	0,86	22	7,4	2,7	2,8
MEC 160L	15	1450	89,4	0,89	27	7,4	2,5	2,7
MEC 180M	18,5	1470	90	0,89	33	7,5	2,4	3,0
MEC 180L	22	1470	90,5	0,89	39	8,2	2,7	3,1
MEC 200L	30	1470	91,4	0,89	52	7,3	2,9	3,2
MEC 225S	37	1480	92	0,89	64	7,4	2,2	2,8
MEC 225M	45	1480	92,5	0,88	79	8,0	2,5	3,0
MEC 250M	55	1480	93	0,89	95	7,5	2,5	3,0
MEC 280S	75	1480	93,6	0,9	127	7,4	2,6	3,1
MEC 280M	90	1480	93,9	0,91	151	6,9	2,3	2,9
MEC 315S	110	1490	94,5	0,88	191	6,3	2,2	3,1
MEC 315M	132	1490	94,8	0,89	226	6,8	2,3	3,4
MEC 315L	160	1480	94,9	0,89	271	5,9	2,1	3,0
MEC 315L	200	1480	95	0,89	339	5,6	1,9	2,8
MEC 355M	250	1490	95,3	0,91	415	6,4	1,8	2,9
MEC 355L	315	1490	95,6	0,9	527	6,8	2,0	3,1

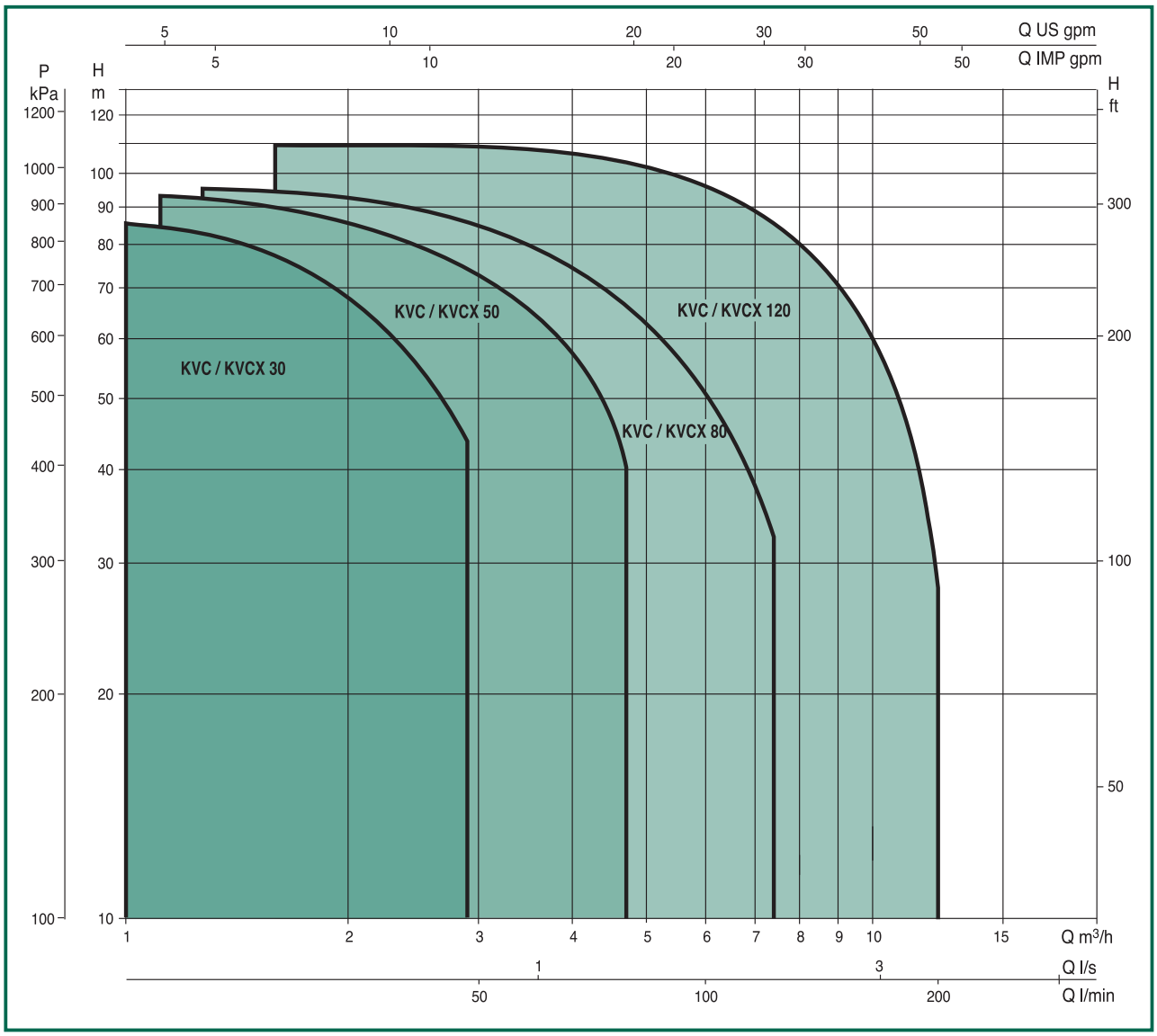
6 POLES = 970 1/min

MOTOR TYPE	Power kW	Speed R.p.m.	Efficiency %	Power factor Cos. φ	Nominal current		Starting current Ia/In	Starting torque Ma/Mn	Maximum torque M/k/Mn
					400V	380-420V			
MEC 132 M	5,5	955	86	0,78	11,9	12,2	7	2,8	2,8
MEC 160M	7,5	970	89,3	0,79	15,4	16,1	6,6	1,9	2,6
MEC 160L	11	970	89,8	0,78	23	23,5	6,9	2,1	3,4
MEC 180L	15	970	90,8	0,78	31	32	6,8	2	3,3
MEC 200M	18,5	985	91,1	0,81	36	38	7	2,7	2,5
MEC 200M	22	980	91,7	0,81	43	45	6,8	2,9	3
MEC 225S	30	985	92,8	0,83	56	59	7,4	3,2	2,8
MEC 250S	37	985	93,4	0,83	69	72	7,2	3,2	2,9
MEC 280S	45	985	93,4	0,84	83	87	7,2	3,2	2,8
MEC 280S	55	989	93,8	0,83	103	108	6,4	2,4	2,4
MEC 315S	75	992	94,2	0,8	145	148	6,3	1,9	2,3
MEC 315S	90	991	94,8	0,83	166	174	6,5	1,9	2,3
MEC 315S	110	991	95,1	0,82	206	215	6,7	2,1	2,6

PERFORMANCE RANGE

GRAPHIC SELECTION TABLE

The performance curves are based on kinematic viscosity values = 1 mm^2/s and densities equivalent to 1000 Kg/m^3. Tolerance and curves in compliance with ISO 9906.



DAB PUMPS reserve the right to make modifications without prior notice

DAB PUMP PERFORMANCE

PERFORMANCE RANGE
KVC / KVCX

NUMERICAL SELECTION TABLE

MODEL		P2 NOMINAL		Q																
				m³/h	0	0,6	1,2	1,8	2,4	3	3,3	3,9	4,8	5,4	6	7,2	8,4	9,6	10,8	12
SINGLE-PHASE	THREE-PHASE	kW	HP	l/min	0	10	20	30	40	50	55	65	80	90	100	120	140	160	180	200
KVC/KVCX 15/30 M	KVC/KVCX 15/30 T	0,25	0,34		22,4	21,2	19,2	16,7	13,8	9,9	7,6									
KVC/KVCX 25/30 M	KVC/KVCX 25/30 T	0,37	0,5		33,9	32,1	29,1	25,3	20,9	15,0	11,6									
KVC/KVCX 35/30 M	KVC/KVCX 35/30 T	0,45	0,6		45,6	43,2	39,1	34,1	28,2	20,2	15,6									
KVC/KVCX 45/30 M	KVC/KVCX 45/30 T	0,55	0,75		56,6	53,5	48,4	42,0	34,6	24,5	19,0									
KVC/KVCX 50/30 M	KVC/KVCX 50/30 T	0,75	1		69,8	66,2	59,9	52,2	43,1	30,9	23,9									
KVC/KVCX 60/30 M	KVC/KVCX 60/30 T	0,8	1,1		82,0	77,0	70,0	61,0	49,5	35,5	27,5									
KVC/KVCX 70/30 M	KVC/KVCX 70/30 T	1	1,36		95,0	90,0	81,5	71,0	58,7	42,0	32,5									
KVC/KVCX 20/50 M	KVC/KVCX 20/50 T	0,37	0,5		27,4	26,9	26,0	24,9	23,1	21,1	19,8	16,9	11,4							
KVC/KVCX 30/50 M	KVC/KVCX 30/50 T	0,55	0,75		41,1	40,3	39,0	37,3	34,7	31,6	29,7	25,3	17,1							
KVC/KVCX 40/50 M	KVC/KVCX 40/50 T	0,8	1,1		54,9	53,7	52,0	49,7	46,3	42,1	39,6	33,7	22,9							
KVC/KVCX 55/50 M	KVC/KVCX 55/50 T	1	1,36		68,6	67,1	65,0	62,1	57,9	52,7	49,5	42,1	28,6							
KVC/KVCX 65/50 M	KVC/KVCX 65/50 T	1,1	1,5		82,3	80,6	78,0	74,6	69,4	63,2	59,4	50,6	34,3							
KVC/KVCX 75/50 M	KVC/KVCX 75/50 T	1,5	2,2	H	96,0	94,0	91,0	87,0	81,0	73,8	69,3	59,0	40,0							
KVC/KVCX 15/80 M	KVC/KVCX 15/80 T	0,37	0,5	(m)	22,8	22,4	21,7	21,1	20,3	19,1	18,3	16,8	14,0	11,7	9,5	4,5				
KVC/KVCX 20/80 M	KVC/KVCX 20/80 T	0,55	0,75		34,6	34,0	33,0	32,1	30,9	29,2	28,0	25,8	21,7	18,3	14,9	7,5				
KVC/KVCX 30/80 M	KVC/KVCX 30/80 T	0,8	1,1		46,6	45,8	44,6	43,4	41,8	39,5	38,0	35,2	29,8	25,5	21,0	11,0				
KVC/KVCX 40/80 M	KVC/KVCX 40/80 T	1	1,36		58,8	57,9	56,5	55,0	53,1	50,3	48,5	45,0	38,4	33,1	27,6	15,1				
KVC/KVCX 45/80 M	KVC/KVCX 45/80 T	1,1	1,5		71,3	70,2	68,7	66,9	64,7	61,4	59,4	55,3	47,5	41,4	34,9	19,9				
KVC/KVCX 55/80 M	KVC/KVCX 55/80 T	1,5	2,2		84,0	82,8	81,2	79,2	76,6	72,9	70,7	66,0	57,1	50,3	42,8	25,5				
–	KVC/KVCX 65/80 T	2,2	3		97,0	95,7	94,0	91,8	88,9	84,7	82,5	77,2	67,3	59,9	51,5	32,0				
KVC/KVCX 25/120 M	KVC/KVCX 25/120 T	1	1,36		30,4	30,3	30,2	30,0	29,9	29,6	29,3	28,7	27,7	26,9	25,9	23,2	19,9	16,4	12,0	7,0
KVC/KVCX 35/120 M	KVC/KVCX 35/120 T	1,1	1,5		46,2	46,1	45,7	45,3	44,8	44,0	43,7	42,7	40,9	39,3	37,4	33,7	29,4	24,2	18,0	11,0
KVC/KVCX 45/120 M	KVC/KVCX 45/120 T	1,85	2,5		62,4	62,0	61,4	60,8	60,1	59,1	58,6	57,5	55,3	53,4	51,4	46,2	40,6	34,0	26,3	17,0
–	KVC/KVCX 60/120 T	2,2	3		78,0	77,5	76,7	75,9	75,1	73,9	73,3	71,5	68,3	65,9	63,2	58,0	51,0	43,4	35,0	24,5
–	KVC/KVCX 70/120 T	3	4		95,0	94,3	93,4	92,5	91,4	89,8	88,9	86,8	83,2	80,5	77,9	71,7	63,9	54,7	44,0	31,0
–	KVC/KVCX 85/120 T	3	4		112,7	111,6	110,3	109,0	107,6	105,7	104,5	101,9	97,5	94,1	89,9	81,6	72,1	61,2	48,9	34,0

KVC / KVCX
VERTICAL
MULTISTAGE PUMPS

KVC

KVCX

CE

GENERAL DATA
Applications
Vertical multistage centrifugal pump suitable for use in small and medium water supply installations. Suitable for pressurization units, surge tank supply, rain irrigation and crop-dusting systems, fire-fighting and washing systems, conveyance of condensate and cooling water. Innovative and robust design.

Pump construction characteristics
KVC: Technopolymer discharge/suction bodies and in-line suction and discharge ports with threaded metal insert.
KVCX: technopolymer suction body with threaded metal insert; stainless steel threaded delivery port on pump jacket.
Impellers, diffuser bodies and diffusers in technopolymer, fully rust-proof. Stainless steel AISI 304 pump jacket, adjustment rings and seal disk.Carbon/ceramic mechanical seal, fitted on the AISI 303 stainless-steel drive shaft extension.

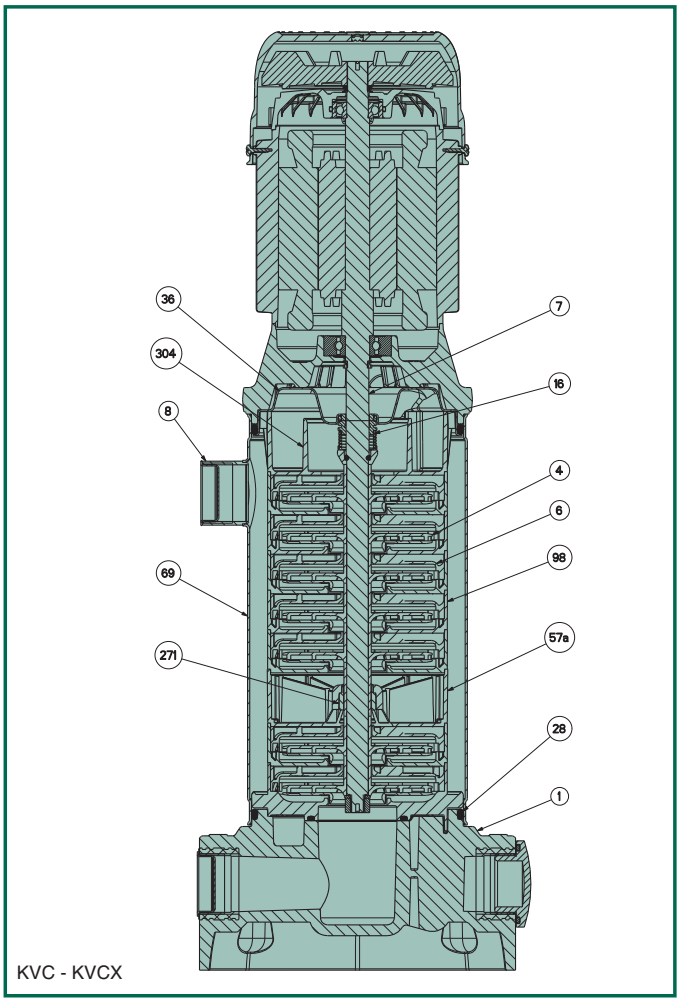
Motor construction characteristics
Asynchronous, closed motor cooled by external ventilation. Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life. Built-in thermal and current overload protection and a capacitor permanently on in the single-phase version. Protection for the three-phase version is the responsibility of the user.
Built in CEI 2-3/CEI 61/69 (EN 60335-2-41) standards.
Level of protection: IP 55
Insulation class: F
Standard voltage: Single-phase 220-240 V / 50 Hz
Three-phase 230-400 V / 50 Hz

DAB PUMPS reserve the right to make modifications without prior notice

TECHNICAL DATA

N	PARTS*	MATERIALS
1	PUMP BODY	TECHNOPOLYMER
4	IMPELLER	TECHNOPOLYMER
6	DIFFUSER	TECHNOPOLYMER
7	SHAFT WITH ROTOR	STAINLESS STEEL AISI 303 X10 CrNi S 1089 UNI 6900/71
16	MECHANICAL SEAL	CARBON/CERAMIC
28	OR GASKET	EPDM RUBBER
36	CASING COVER	STAINLESS STEEL AISI 304 X5 CrNi 1810 UNI 6900/71
57a	INTERMEDIATE STAGE	TECHNOPOLYMER
69	LINEN	STAINLESS STEEL AISI 304 X5 CrNi 1810 UNI 6900/71
98	STAGE	TECHNOPOLYMER
271	EAR-RING	RUBBER
304	CONVEYER	TECHNOPOLYMER
8	DNM (only KVCX supplied as standard)	

* In contact with the liquid.

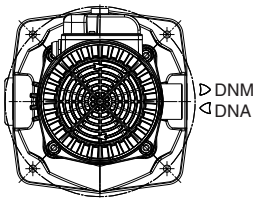


KVC - KVCX

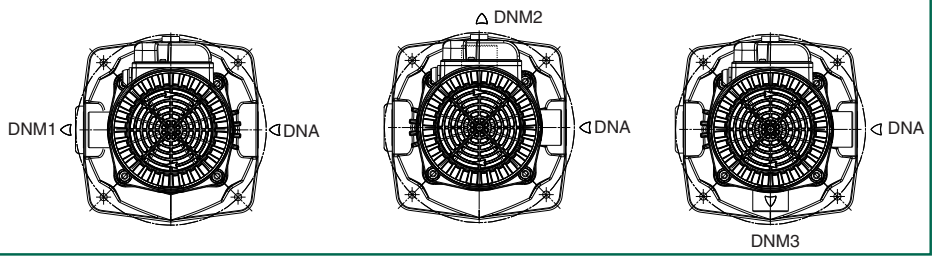
- Operating range: from 50 to 200 l/min with head up to 113 m.
- Pumped liquid: clean, free from solids or abrasive substances, not viscous, not aggressive, not crystallised and chemically neutral and close to the characteristics of water.
- Liquid temperature range: from 0°C to +35°C for domestic use (EN 60335-2-41 safety standards). from 0°C to +40°C for other uses.
- Max ambient temperature: +40°C
- Max working pressure: 12 bar (1200 kPa).
- Installation: fixed, in vertical or horizontal position, providing that the motor is positioned above the pump.
- Special versions on request: Other voltages and/or frequencies.

POSITION OF THE SUCTION AND DELIVERY PORTS KVCX

STANDARD EXECUTION: KVCX



SPECIAL EXECUTIONS: KVCX

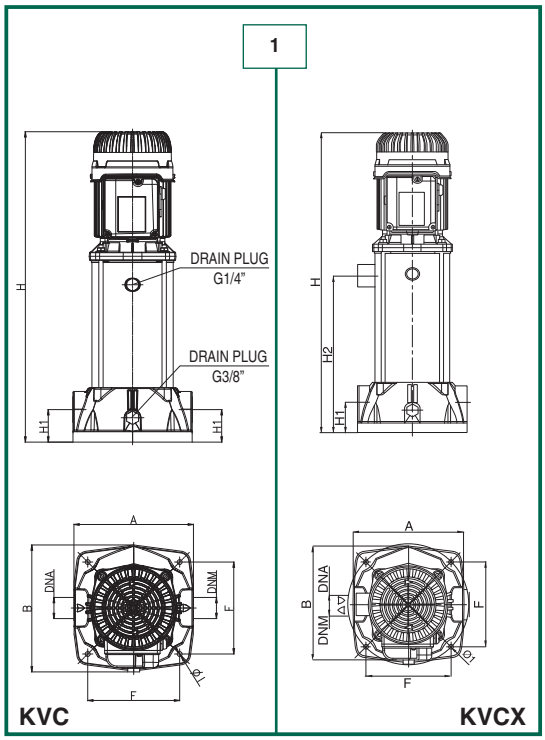


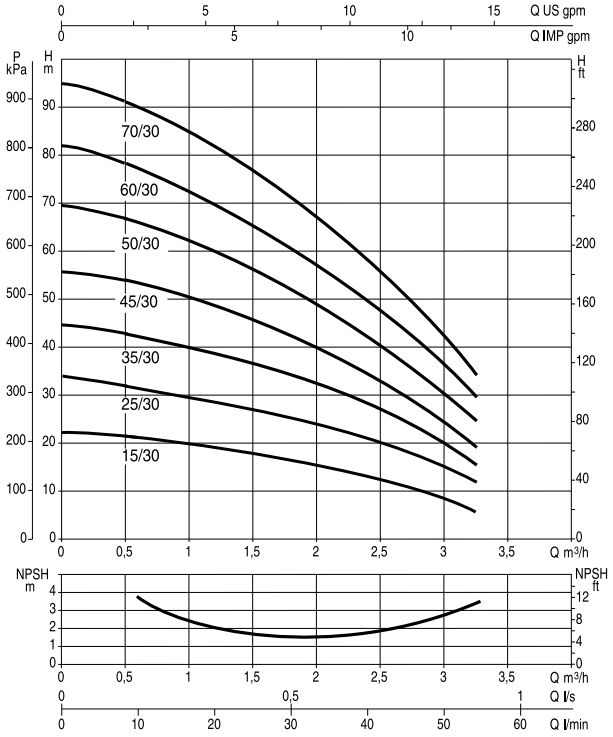
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

KVC / KVCX 30

2-pole motor (2900 1/min)

Liquid temperature range: from 0°C to +35°C for domestic use
from 0°C to +40°C for other uses





MODEL	EXTERNAL DESIGN	A	B	F	H	H1	H2	Ø I	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
KVC 15/30	1	221	235	170	450	60	-	9	G 1" 1/4	G 1" 1/4	300	360	540	0,058	14,0
KVC 25/30	1	221	235	170	478	60	-	9	G 1" 1/4	G 1" 1/4	300	360	568	0,061	14,4
KVC 35/30	1	221	235	170	505	60	-	9	G 1" 1/4	G 1" 1/4	300	360	595	0,064	14,0
KVC 45/30	1	221	235	170	533	60	-	9	G 1" 1/4	G 1" 1/4	300	360	623	0,067	14,4
KVC 50/30	1	221	235	170	598	60	-	9	G 1" 1/4	G 1" 1/4	300	360	688	0,074	16,2
KVC 60/30	1	221	235	170	625	60	-	9	G 1" 1/4	G 1" 1/4	300	360	715	0,077	17,2
KVC 70/30	1	221	235	170	653	60	-	9	G 1" 1/4	G 1" 1/4	300	360	743	0,080	18,4
KVCX 15/30	1	221	235	170	478	60	184	9	G 1" 1/4	G 1" 1/4	300	360	568	0,061	14,0
KVCX 25/30	1	221	235	170	478	60	184	9	G 1" 1/4	G 1" 1/4	300	360	568	0,061	14,4
KVCX 35/30	1	221	235	170	533	60	239	9	G 1" 1/4	G 1" 1/4	300	360	623	0,067	14,0
KVCX 45/30	1	221	235	170	533	60	239	9	G 1" 1/4	G 1" 1/4	300	360	623	0,067	14,4
KVCX 50/30	1	221	235	170	625	60	332	9	G 1" 1/4	G 1" 1/4	300	360	715	0,077	16,2
KVCX 60/30	1	221	235	170	625	60	332	9	G 1" 1/4	G 1" 1/4	300	360	715	0,077	17,2
KVCX 70/30	1	221	235	170	653	60	359	9	G 1" 1/4	G 1" 1/4	300	360	743	0,080	18,4

MODEL	ELECTRICAL DATA											HYDRAULIC DATA							
	N° IMPELLERS	VOLTAGE 50 Hz	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	0,6	1,2	1,8	2,4	3	3,3
												l/min	0	10	20	30	40	50	55
KVC-KVCX 15/30 M	2	1x220-240 V ~	0,36	0,25	0,33	1,6	13,7	2800	0,98	14	450	H (m)	22,4	21,2	19,2	16,7	13,8	9,9	7,6
KVC-KVCX 15/30 T		3x230-400 V ~	0,45	0,25	0,33	1,4-0,8	15,9-9,2	2800	0,78	–	–								
KVC-KVCX 25/30 M	3	1x220-240 V ~	0,52	0,37	0,5	2,4	13,7	2800	0,94	14	450		33,9	32,1	29,1	25,3	20,9	15,0	11,6
KVC-KVCX 25/30 T		3x230-400 V ~	0,54	0,37	0,5	1,7-1,0	15,9-9,2	2800	0,78	–	–								
KVC-KVCX 35/30 M	4	1x220-240 V ~	0,7	0,45	0,6	3,2	13,7	2800	0,95	14	450		45,6	43,2	39,1	34,1	28,2	20,2	15,6
KVC-KVCX 35/30 T		3x230-400 V ~	0,64	0,45	0,6	2,1-1,2	15,9-9,2	2800	0,77	–	–								
KVC-KVCX 45/30 M	5	1x220-240 V ~	0,9	0,55	0,75	4	13,7	2800	0,98	14	450		56,6	53,5	48,4	42,0	34,6	24,5	19,0
KVC-KVCX 45/30 T		3x230-400 V ~	0,75	0,55	0,75	2,4-1,4	15,9-9,2	2800	0,77	–	–								
KVC-KVCX 50/30 M	6	1x220-240 V ~	1,1	0,75	1	4,9	19,5	2800	0,98	16	450		69,8	66,2	59,9	52,2	43,1	30,9	23,9
KVC-KVCX 50/30 T		3x230-400 V ~	0,97	0,75	1	3,1-1,8	16,4-9,5	2800	0,78	–	–								
KVC-KVCX 60/30 M	7	1x220-240 V ~	1,2	0,8	1,1	5,6	28	2800	0,93	20	450		82,0	77,0	70,0	61,0	49,5	35,5	27,5
KVC-KVCX 60/30 T		3x230-400 V ~	1,2	0,8	1,1	3,8-2,2	21,4-12,4	2800	0,79	–	–								
KVC-KVCX 70/30 M	8	1x220-240 V ~	1,4	1	1,36	6,5	30	2800	0,94	25	450		95,0	90,0	81,5	71,0	58,7	42,0	32,5
KVC-KVCX 70/30 T		3x230-400 V ~	1,4	1	1,36	4,4-2,6	22,1-12,8	2800	0,78	–	–								

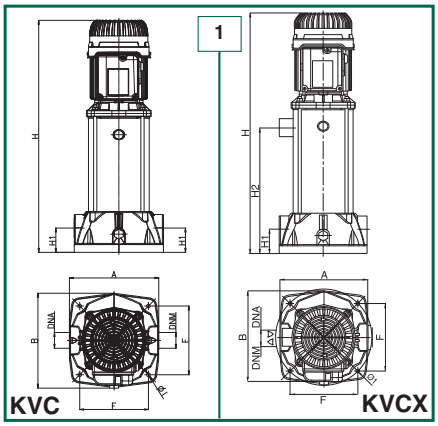
DAB PUMPS reserve the right to make modifications without prior notice

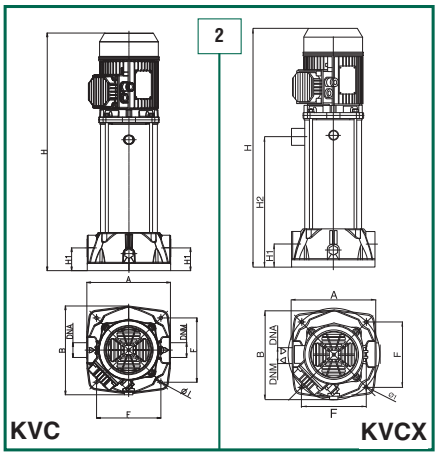
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

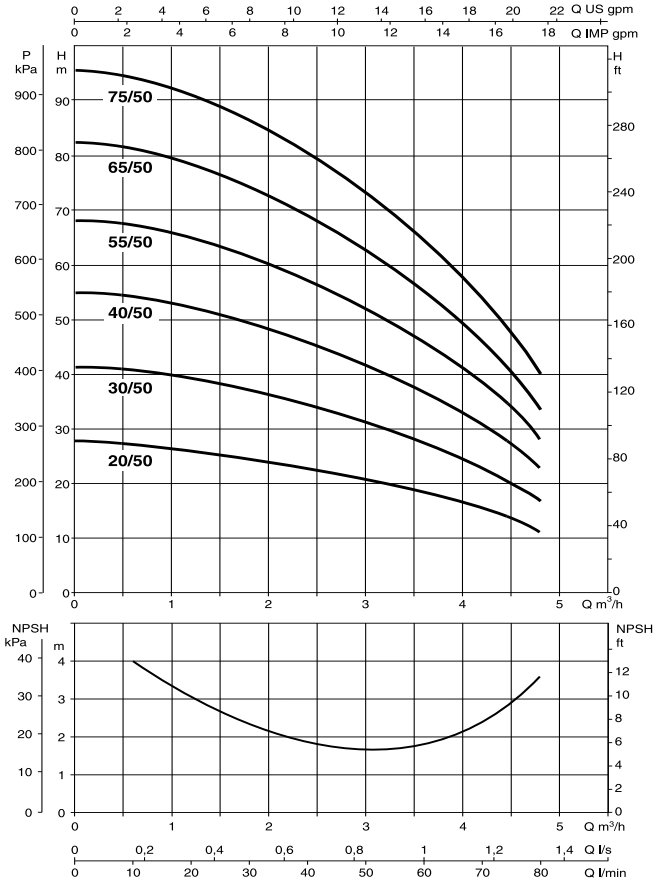
KVC / KVCX 50

2-pole motor (2900 1/min)

Liquid temperature range: from 0°C to +35°C for domestic use
from 0°C to +40°C for other uses







MODEL	EXTERNAL DESIGN	A	B	F	H	H1	H2	Ø I	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg single-phase	WEIGHT Kg three-phase
KVC 20/50	1	221	235	170	450	60	–	9	G 1" 1/4	G 1" 1/4	300	360	540	0,058	13,5	13,5
KVC 30/50	1	221	235	170	478	60	–	9	G 1" 1/4	G 1" 1/4	300	360	568	0,061	13,7	13,7
KVC 40/50	1	221	235	170	505	60	–	9	G 1" 1/4	G 1" 1/4	300	360	595	0,064	15,8	15,8
KVC 55/50	1	221	235	170	533	60	–	9	G 1" 1/4	G 1" 1/4	300	360	623	0,067	17,0	17,0
KVC 65/50	2	221	235	170	600	60	–	9	G 1" 1/4	G 1" 1/4	300	360	690	0,074	20,2	19,8
KVC 75/50	2	221	235	170	627	60	–	9	G 1" 1/4	G 1" 1/4	300	360	717	0,077	21,2	20,6
KVCX 20/50	1	221	235	170	478	60	184	9	G 1" 1/4	G 1" 1/4	300	360	568	0,061	13,5	13,5
KVCX 30/50	1	221	235	170	478	60	184	9	G 1" 1/4	G 1" 1/4	300	360	568	0,061	13,7	13,7
KVCX 40/50	1	221	235	170	533	60	239	9	G 1" 1/4	G 1" 1/4	300	360	623	0,067	15,8	15,8
KVCX 55/50	1	221	235	170	533	60	239	9	G 1" 1/4	G 1" 1/4	300	360	623	0,067	17,0	17,0
KVCX 65/50	2	221	235	170	627	60	332	9	G 1" 1/4	G 1" 1/4	300	360	717	0,077	20,2	19,8
KVCX 75/50	2	221	235	170	627	60	332	9	G 1" 1/4	G 1" 1/4	300	360	717	0,077	21,2	20,6

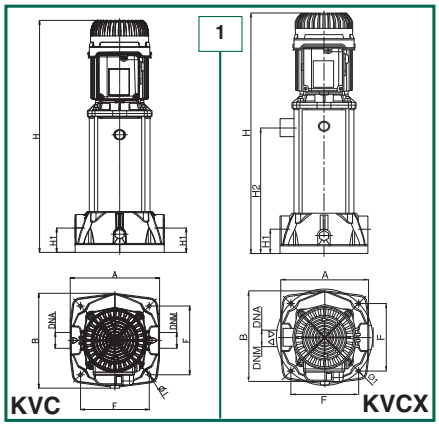
MODEL	ELECTRICAL DATA											HYDRAULIC DATA									
	N° IMPELLERS	VOLTAGE 50 Hz	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	0,6	1,2	1,8	2,4	3	3,3	3,9	4,8
												l/min	0	10	20	30	40	50	55	65	80
KVC-KVCX 20/50 M	2	1x220-240 V ~	0,55	0,37	0,5	2,5	13,7	2800	0,96	14	450	H (m)	27,4	26,9	26,0	24,9	23,1	21,1	19,8	16,9	11,4
KVC-KVCX 20/50 T		3x230-400 V ~	0,54	0,37	0,5	1,7-1,0	15,9-9,2	2800	0,78	–	–										
KVC-KVCX 30/50 M	3	1x220-240 V ~	0,9	0,55	0,75	4	13,7	2800	0,98	14	450		41,1	40,3	39,0	37,3	34,7	31,6	29,7	25,3	17,1
KVC-KVCX 30/50 T		3x230-400 V ~	0,75	0,55	0,75	2,4-1,4	15,9-9,2	2800	0,77	–	–										
KVC-KVCX 40/50 M	4	1x220-240 V ~	1,2	0,8	1,1	5,6	28	2800	0,93	20	450		54,9	53,7	52,0	49,7	46,3	42,1	39,6	33,7	22,9
KVC-KVCX 40/50 T		3x230-400 V ~	1,2	0,8	1,1	3,8-2,2	21,4-12,4	2800	0,79	–	–										
KVC-KVCX 55/50 M	5	1x220-240 V ~	1,4	1	1,36	6,4	30	2800	0,95	25	450		68,6	67,1	65,0	62,1	57,9	52,7	49,5	42,1	28,6
KVC-KVCX 55/50 T		3x230-400 V ~	1,4	1	1,36	4,4-2,6	22,1-12,8	2800	0,78	–	–										
KVC-KVCX 65/50 M	6	1x220-240 V ~	1,7	1,1	1,5	7,4	29,2	2800	0,96	31,5	450		82,3	80,6	78,0	74,6	69,4	63,2	59,4	50,6	34,3
KVC-KVCX 65/50 T		3x230-400 V ~	1,7	1,1	1,5	5,4-3,1	31,1-18,0	2800	0,76	–	–										
KVC-KVCX 75/50 M	7	1x220-240 V ~	2	1,5	2	9	38	2800	0,97	31,5	450		96,0	94,0	91,0	87,0	81,0	73,8	69,3	59,0	40,0
KVC-KVCX 75/50 T		3x230-400 V ~	1,9	1,5	2	6,2-3,6	37,5-21,7	2800	0,78	–	–										

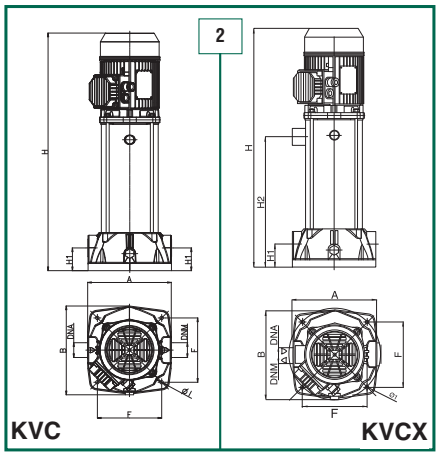
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

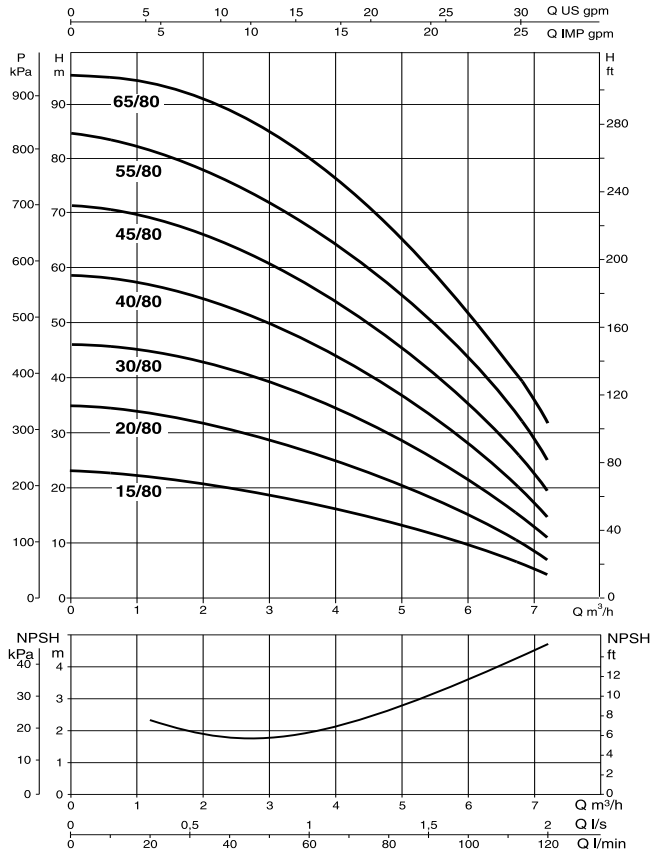
KVC / KVCX 80

2-pole motor (2900 1/min)

Liquid temperature range: from 0°C to +35°C for domestic use
from 0°C to +40°C for other uses







MODEL	EXTERNAL DESIGN	A	B	F	H	H1	H2	Ø I	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg single-phase	WEIGHT Kg three-phase
KVC 15/80	1	221	235	170	450	60	–	9	G 1" 1/4	G 1" 1/4	300	360	540	0,058	13,5	13,5
KVC 20/80	1	221	235	170	478	60	–	9	G 1" 1/4	G 1" 1/4	300	360	568	0,061	13,7	13,7
KVC 30/80	1	221	235	170	505	60	–	9	G 1" 1/4	G 1" 1/4	300	360	595	0,064	15,7	15,5
KVC 40/80	1	221	235	170	533	60	–	9	G 1" 1/4	G 1" 1/4	300	360	623	0,067	17,0	17,0
KVC 45/80	2	221	235	170	600	60	–	9	G 1" 1/4	G 1" 1/4	300	360	690	0,074	20,1	20,2
KVC 55/80	2	221	235	170	627	60	–	9	G 1" 1/4	G 1" 1/4	300	360	717	0,077	21,0	20,0
KVC 65/80	2	221	235	170	655	60	–	9	G 1" 1/4	G 1" 1/4	300	360	745	0,080	–	21,6
KVCX 15/80	1	221	235	170	478	60	184	9	G 1" 1/4	G 1" 1/4	300	360	568	0,061	13,5	13,5
KVCX 20/80	1	221	235	170	478	60	184	9	G 1" 1/4	G 1" 1/4	300	360	568	0,061	13,7	13,7
KVCX 30/80	1	221	235	170	533	60	239	9	G 1" 1/4	G 1" 1/4	300	360	623	0,067	15,7	15,5
KVCX 40/80	1	221	235	170	533	60	239	9	G 1" 1/4	G 1" 1/4	300	360	623	0,067	17,0	17,0
KVCX 45/80	2	221	235	170	627	60	332	9	G 1" 1/4	G 1" 1/4	300	360	717	0,077	20,1	20,2
KVCX 55/80	2	221	235	170	627	60	332	9	G 1" 1/4	G 1" 1/4	300	360	717	0,077	21,0	20,0
KVCX 65/80	2	221	235	170	655	60	359	9	G 1" 1/4	G 1" 1/4	300	360	745	0,080	–	21,6

MODEL	ELECTRICAL DATA N° IMPELLERS	VOLTAGE 50 Hz	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	cos φ	CAPACITOR µF	CAPACITOR Vc
KVC-KVCX 15/80 M	2	1x220-240 V ~	0,55	0,37	0,5	2,5	13,7	2800	0,96	14	450
KVC-KVCX 15/80 T		3x230-400 V ~	0,54	0,37	0,5	1,7-1,0	15,9-9,2	2800	0,78	–	–
KVC-KVCX 20/80 M	3	1x220-240 V ~	0,9	0,55	0,75	4,1	13,7	2800	0,95	14	450
KVC-KVCX 20/80 T		3x230-400 V ~	0,75	0,55	0,75	2,4-1,4	15,9-9,2	2800	0,77	–	–
KVC-KVCX 30/80 M	4	1x220-240 V ~	1,2	0,8	1,1	5,6	28	2800	0,93	20	450
KVC-KVCX 30/80 T		3x230-400 V ~	1,2	0,8	1,1	3,8-2,2	21,4-12,4	2800	0,79	–	–
KVC-KVCX 40/80 M	5	1x220-240 V ~	1,4	1	1,36	6,5	30	2800	0,96	25	450
KVC-KVCX 40/80 T		3x230-400 V ~	1,4	1	1,36	4,4-2,6	22,1-12,8	2800	0,78	–	–
KVC-KVCX 45/80 M	6	1x220-240 V ~	1,7	1,1	1,5	7,4	29,2	2800	0,96	31,5	450
KVC-KVCX 45/80 T		3x230-400 V ~	1,7	1,1	1,5	5,4-3,1	31,1-18,0	2800	0,76	–	–
KVC-KVCX 55/80 M	7	1x220-240 V ~	2	1,5	2	9	38	2800	0,97	31,5	450
KVC-KVCX 55/80 T		3x230-400 V ~	1,9	1,5	2	6,2-3,6	37,5-21,7	2800	0,78	–	–
KVC-KVCX 65/80 T	8	3x230-400 V ~	2,2	2,2	3	6,9-4	48,4-28,0	2800	0,79	–	–

HYDRAULIC DATA													
Q m³/h	0	0,6	1,2	1,8	2,4	3	3,3	3,9	4,8	5,4	6	7,2
Q l/min	0	10	20	30	40	50	55	65	80	90	100	120
H (m)	22,8	22,4	21,7	21,1	20,3	19,1	18,3	16,8	14,0	11,7	9,5	4,5
	34,6	34,0	33,0	32,1	30,9	29,2	28,0	25,8	21,7	18,3	14,9	7,5
	46,6	45,8	44,6	43,4	41,8	39,5	38,0	35,2	29,8	25,5	21,0	11,0
	58,8	57,9	56,5	55,0	53,1	50,3	48,5	45,0	38,4	33,1	27,6	15,1
	71,3	70,2	68,7	66,9	64,7	61,4	59,4	55,3	47,5	41,4	34,9	19,9
	84,0	82,8	81,2	79,2	76,6	72,9	70,7	66,0	57,1	50,3	42,8	25,5
	97,0	95,7	94,0	91,8	88,9	84,7	82,5	77,2	67,3	59,9	51,5	32,0

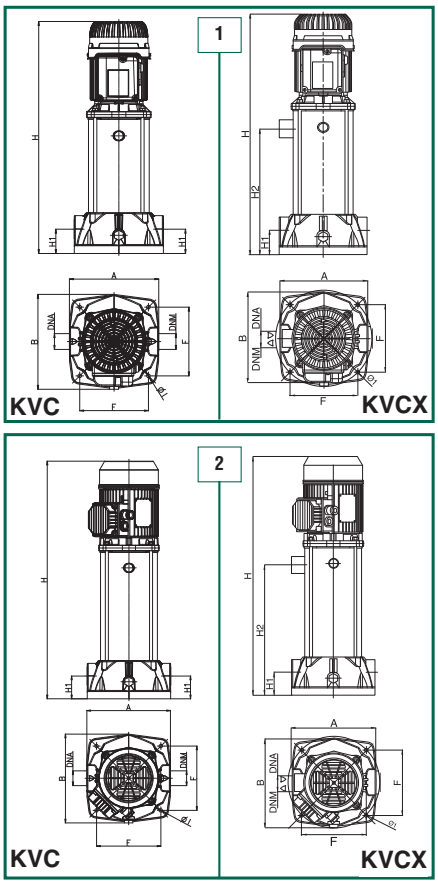
DAB PUMPS reserve the right to make modifications without prior notice

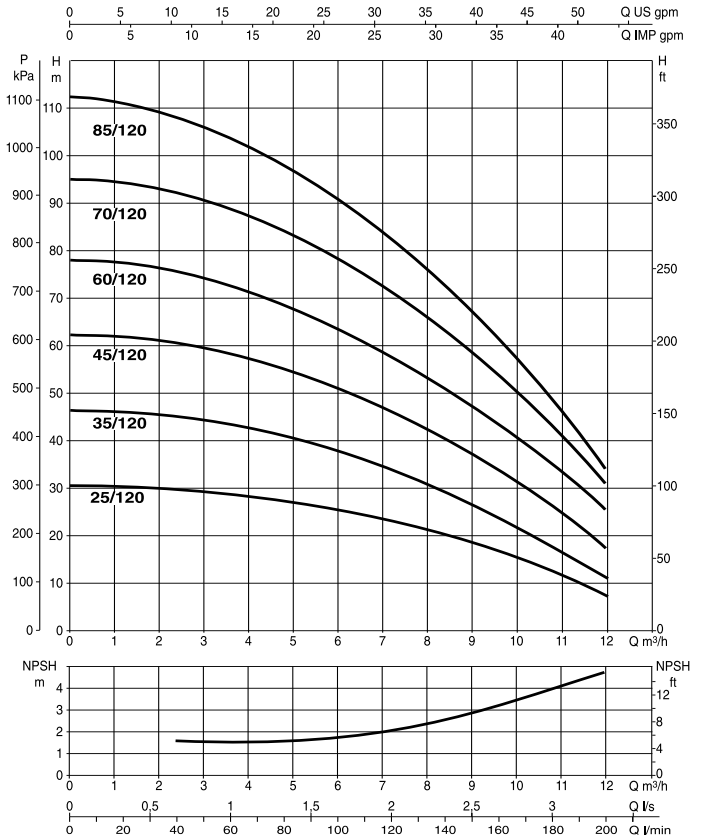
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

KVC / KVCX 120

2-pole motor (2900 1/min)

Liquid temperature range: from 0°C to +35°C for domestic use
from 0°C to +40°C for other uses





MODEL	EXTERNAL DESIGN	A	B	F	H	H1	H2	Ø I	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg single-phase	WEIGHT Kg three-phase
KVC 25/120 *	1	221	235	170	505	60	–	9	G 1" 1/4	G 1" 1/4	300	360	585	0,058	19,4	19,0
KVC 35/120 *	2	221	235	170	505	60	–	9	G 1" 1/4	G 1" 1/4	300	360	585	0,061	19,4	19,0
KVC 45/120 *	2	221	235	170	635	60	–	9	G 1" 1/4	G 1" 1/4	300	360	715	0,064	24,6	22,7
KVC 60/120	2	221	235	170	635	60	–	9	G 1" 1/4	G 1" 1/4	300	360	715	0,067	-	22,7
KVC 70/120	2	221	235	170	730	60	–	9	G 1" 1/4	G 1" 1/4	300	360	810	0,074	-	26,4
KVC 85/120	2	221	235	170	730	60	–	9	G 1" 1/4	G 1" 1/4	300	360	810	0,077	-	26,4
KVCX 25/120 *	1	221	235	170	505	60	184	9	G 1" 1/4	G 1" 1/4	300	360	585	0,061	19,4	19,0
KVCX 35/120 *	2	221	235	170	505	60	184	9	G 1" 1/4	G 1" 1/4	300	360	585	0,061	19,4	19,0
KVCX 45/120 *	2	221	235	170	635	60	239	9	G 1" 1/4	G 1" 1/4	300	360	715	0,067	24,6	22,7
KVCX 60/120	2	221	235	170	635	60	239	9	G 1" 1/4	G 1" 1/4	300	360	715	0,065	-	22,7
KVCX 70/120	2	221	235	170	730	60	332	9	G 1" 1/4	G 1" 1/4	300	360	810	0,076	-	26,4
KVCX 85/120	2	221	235	170	730	60	332	9	G 1" 1/4	G 1" 1/4	300	360	810	0,076	-	26,4

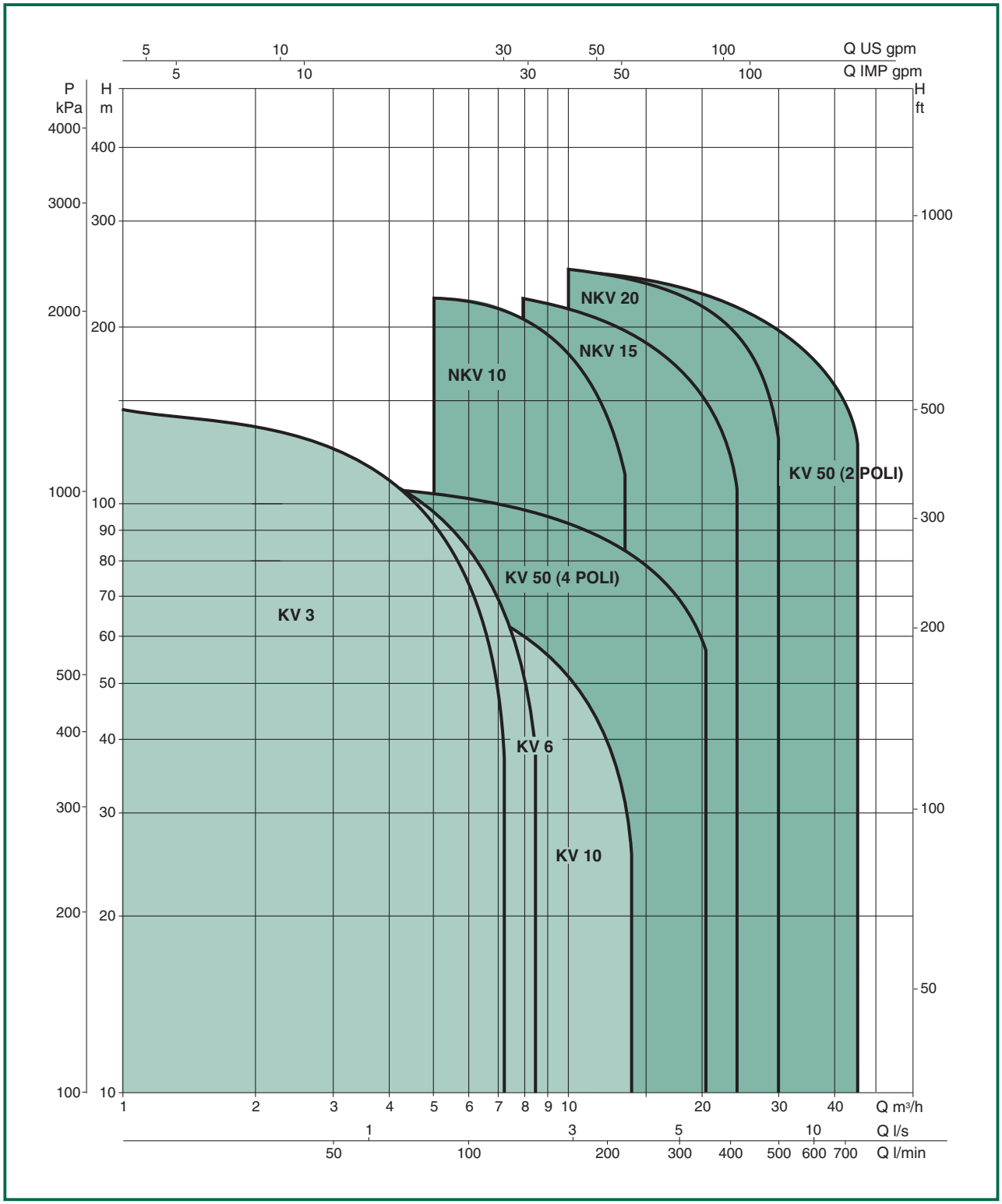
* H is valid only for three-phase versions

MODEL	ELECTRICAL DATA N° IMPELLERS	VOLTAGE 50 Hz	P1 MAX kW	P2 Nominal kW	P2 Nominal HP	In A	I st. A	1/min.	cos φ	CAPACITOR µF	CAPACITOR Vc	HYDRAULIC DATA Q m³/h	Q l/min	0	0	0,6 10	1,2 20	1,8 30	2,4 40	3 50	3,3 55	3,9 65	4,8 80	5,4 90	6 100	7,2 120	8,4 140	9,6 160	10,8 180	12 200
KVC-KVCX 25/120 M	2	1x220-240 V ~	1,5	1	1,36	6,5	30	2800	0,96	25	450	H (m)		30,4	30,3	30,2	30,0	29,9	29,6	29,3	28,7	27,7	26,9	25,9	23,2	19,9	16,4	12,0	7,0
KVC-KVCX 25/120 T		3x230-400 V ~	1,5	1	1,36	5-2,9	22,1-12,8	2800	0,79	–	–																			
KVC-KVCX 35/120 M	3	1x220-240 V ~	1,9	1,1	1,5	7,4	30	2800	0,96	31,5	450			46,2	46,1	45,7	45,3	44,8	44,0	43,7	42,7	40,9	39,3	37,4	33,7	29,4	24,2	18,0	11,0
KVC-KVCX 35/120 T		3x230-400 V ~	1,9	1,1	1,5	6-3,5	31,1-18	2800	0,79	–	–																			
KVC-KVCX 45/120 M	4	1x220-240 V ~	2,6	1,85	2,5	12	54	2800	0,96	40	450			62,4	62,0	61,4	60,8	60,1	59,1	58,6	57,5	55,3	53,4	51,4	46,2	40,6	34,0	26,3	17,0
KVC-KVCX 45/120 T		3x230-400 V ~	2,5	1,85	2,5	7,9-4,6	48,4-28	2800	0,79	–	–																			
KVC-KVCX 60/120 T	5	3x230-400 V ~	3,1	2,2	3	9,3-5,4	53-31	2800	0,79	–	–			78,0	77,5	76,7	75,9	75,1	73,9	73,3	71,5	68,3	65,9	63,2	58,0	51,0	43,4	35,0	24,5
KVC-KVCX 70/120 T	6	3x230-400 V ~	3,8	3	4	11,8-6,8	78-45	2800	0,79	–	–			95,0	94,3	93,4	92,5	91,4	89,8	88,9	86,8	83,2	80,5	77,9	71,7	63,9	54,7	44,0	31,0
KVC-KVCX 85/120 T	7	3x230-400 V ~	4,3	3	4	13,5-7,8	90-53	2800	0,79	–	–			112,7	111,6	110,3	109,0	107,6	105,7	104,5	101,9	97,5	94,1	89,9	81,6	72,1	61,2	48,9	34,0

PERFORMANCE RANGE

GRAPHIC SELECTION TABLE

The performance curves are based on kinematic viscosity values = 1 mm^2/s and densities equivalent to 1000 Kg/m^3. Tolerance and curves in compliance with ISO 9906.



DAB PUMPS reserve the right to make modifications without prior notice

DAB PUMP PERFORMANCE

PERFORMANCE RANGE

2 POLES

MODEL		P2 NOMINAL		Q m³/h	0	1,8	3,6	5,4	7,2	8,4	10,2	12	13,8	15	18	21	24	27	30	36	42	45
SINGLE-PHASE	THREE-PHASE	kW	HP	l/min	0	30	60	90	120	140	170	200	230	250	300	350	400	450	500	600	700	750
KV 3/10 M	**KV 3/10 T**	1,1	1,5	H (m)	88	77	63,5	45,7	21													
KV 3/12 M	**KV 3/12 T**	1,5	2		105,6	92,4	76,2	54,8	25,2													
KV 3/15 M	**KV 3/15 T**	1,85	2,5		132	115,5	95,3	68,6	31,5													
–	**KV 3/18 T**	2,2	3		158,4	138,6	114,3	82,3	37,8													
KV 6/7 M	**KV 6/7 T**	1,1	1,5		62,3	57,8	51,5	42,5	29,5	18,6												
KV 6/9 M	**KV 6/9 T**	1,5	2		80,1	74,3	66,2	54,6	38	23,9												
KV 6/11 M	**KV 6/11 T**	1,85	2,5		97,9	90,8	81	66,8	46,4	29,2												
–	**KV 6/15 T**	2,2	3		133,5	123,8	110,4	91,1	63,3	39,8												
KV 10/4 M	**KV 10/4 T**	1,1	1,5		38,2	37,4	36,2	34,4	32	29,7	25,5	20	12,6									
KV 10/5 M	**KV 10/5 T**	1,5	2		47,8	46,8	45,2	43	40	37,2	31,9	25	15,8									
–	**KV 10/6 T**	1,85	2,5		57,3	56,1	54,2	51,6	48	44,6	38,2	30	18,9									
–	**KV 10/8 T**	2,2	3		76,4	74,8	72,3	68,8	64	59,4	51	40	25,2									
–	**KV 50/2 T**	7,5	10	H (m)	59							53,4	52,5	52	50,8	49,2	47,6	45,6	43,6	38,2	31	26,4
–	**KV 50/3 T**	9,2	12,5		88,5							80,1	79	78	76,2	73,8	71,4	68,4	65,4	57,3	46,5	39,6
–	**KV 50/4 T**	11	15		118							106,8	105	104	101,6	98,4	95,2	91,2	87,2	76,4	62	52,8
–	**KV 50/5 T**	15	20		147,5							133,5	131	130	127	123	119	114	109	95,5	77,5	66
–	**KV 50/6 T**	18,5	25		177							160,2	15,8	156	152,4	147,6	142,8	136,8	130,8	114,6	93	79,2
–	**KV 50/7 T**	22	30		206,5							186,9	184	182	177,8	172,2	166,6	159,6	152,6	133,7	108,5	92,4
–	**KV 50/8 T**	22	30		236							213,6	212	208	203,2	196,8	190,4	182,4	174,4	152,8	124	105,6
–	**KV 50/9 T**	30	40		265,5							240,3	238	234	228,6	221,4	214,2	205,2	196,2	171,9	139,5	118,8

PERFORMANCE RANGE

4 POLES

MODEL	P2 NOMINAL		Q m³/h	0	1,5	3	4,5	6	7,5	9	12	15	18	21
	kW	HP	l/min	0	25	50	75	100	125	150	200	250	300	350
KV 50/34	1,1	1,5	H (m)	22,5	22	21,5	21	20,5	20	19	17,5	16	14	11,5
KV 50/44	1,5	2		30	29,5	28,5	28	27	26,5	25,5	23,5	21	18,5	15,5
KV 50/54	2,2	3		37	36,5	36	35	34	33	32	29,5	26,5	23	19
KV 50/64	2,2	3		45	44,4	43,5	42	41	40	38,5	35,5	32	28	23
KV 50/74	3	4		52	51,5	50,5	49,5	48	46,5	45	41,5	37,5	32,5	26,5
KV 50/84	3	4		60	59	57,5	56,5	54,5	53	51,5	47,5	42,5	37	30,5
KV 50/94	4	5,5		67,5	66	64,5	63	61,5	60	58	53,5	48	42	34,5
KV 50/104	4	5,5		75	73,5	72	70	68,5	66,5	64	59	53,5	46,5	38
KV 50/114	4	5,5		82	81	79	77	75	72,5	70	65	58,5	51	42
KV 50/124	5,5	7,5		90	88	86	84	82	79,5	77	71	64	56	46
KV 50/134	5,5	7,5		97,5	95,5	93	91	88	85,5	82,5	76,5	69	61	50
KV 50/144	5,5	7,5		105	103	100,5	97,5	95	92	89	82	74	65	53,5
KV 50/154	5,5	7,5		112,5	110	107,5	105	102	99	95,5	88,5	80	70	57,5

DAB PUMPS si riserva il diritto di apportare modifiche senza obbligo di preavviso

DAB PUMP PERFORMANCE

PERFORMANCE RANGE

4 POLES

MODEL	P2 NOMINAL kW	P2 NOMINAL HP	Q m³/h	0	4	8	10	12	14	16	18	20	22	24	26	29
			Q l/min	0	66	132	167	200	233	264	300	334	367	396	433	483
NKV 10/2	0,75	1,1	H (m)	20,2	20	18,3	15,8	12,5								
NKV 10/3	1,10	1,5		30,3	31	27,5	23,6	18,8								
NKV 10/4	1,50	2		40,4	41	36,7	31,5	25,1								
NKV 10/5	2,2	3		50,5	51	45,8	39,4	31,3								
NKV 10/6	2,2	3		60,5	61	55,0	47,3	37,6								
NKV 10/7	3,0	4		70,6	72	64,2	55,1	43,8								
NKV 10/8	3,0	4		80,7	82	73,3	63,0	50,1								
NKV 10/9	3,0	4		90,8	92	82,5	70,9	56,4								
NKV 10/10	4,0	5,5		100,9	102	91,7	78,8	62,6								
NKV 10/12	4,0	5,5		121,1	123	110,0	94,5	75,2								
NKV 10/14	5,5	7,5		141,3	143	128,3	110,3	87,7								
NKV 10/16	5,5	7,5		161,5	164	146,7	126,0	100,2								
NKV 10/18	7,5	10		181,6	184	165,0	141,8	112,7								
NKV 10/20	7,5	10		201,8	205	183,3	157,5	125,3								
NKV 10/22	7,5	10		222	225	202	173,3	137,8								
NKV 15/2	2,20	3	H (m)	27,2	26,7	26	26,1	25,5	24,5	23,2	21,6	19,8	17,4	14,6		
NKV 15/3	3,00	4		40,8	40,0	40	39,1	38,3	36,8	34,8	32,5	29,7	26,1	21,9		
NKV 15/4	4,00	5,5		54,4	53,4	53	52,1	51,0	49,0	46,4	43,3	39,6	34,8	29,2		
NKV 15/5	4,00	5,5		68,0	66,7	66	65,2	63,8	61,3	58,1	54,1	49,5	43,5	36,5		
NKV 15/6	5,5	7,5		81,6	80,1	79	78,2	76,5	73,6	69,7	64,9	59,4	52,2	43,8		
NKV 15/7	5,5	7,5		95,2	93,4	92	91,2	89,3	85,8	81,3	75,8	69,3	60,9	51,1		
NKV 15/8	7,5	10		108,8	106,8	106	104,3	102,0	98,1	92,9	86,6	792	69,6	58,4		
NKV 15/9	7,5	10		122,4	120,1	119	117,3	114,8	110,3	104,5	97,4	89,1	78,4	65,7		
NKV 15/10	11,0	15		136,0	133,5	132	130,4	127,5	122,6	116,1	108,2	99,0	87,1	73,0		
NKV 15/12	11,0	15		163,2	160,2	158	156,4	153,0	147,1	139,3	129,9	1188	104,5	87,6		
NKV 15/14	11,0	15		190,4	186,9	185	182,5	178,5	171,6	162,6	151,5	138,6	121,9	102,2		
NKV 15/16	15,0	20		217,6	213,6	211	208,6	204,0	196,1	185,8	173,2	158,4	139,3	116,8		
NKV 15/17	15,0	20		231,2	226,9	225	221,6	216,75	208,4	197,4	184	168,3	148	124,1		
NKV 20/2	2,20	3	H (m)	29,3	28,8	28,8	28,6	28	27,6	26,9	25,9	24,6	22,9	21,2	19,1	15,8
NKV 20/3	4,00	5,5		43,9	43,2	43,1	42,9	42	41,5	40,4	38,8	36,9	34,4	31,8	28,7	23,6
NKV 20/4	5,50	7,5		58,6	57,6	57,5	57,2	56	55,3	53,8	51,8	49,2	45,9	42,4	38,2	31,5
NKV 20/5	5,50	7,5		73,2	71,9	71,9	71,5	71	69,1	67,3	64,7	61,5	57,4	52,9	47,8	39,4
NKV 20/6	7,5	10		87,9	86,3	86,3	85,8	85	82,9	80,7	77,7	73,8	68,8	63,5	57,4	47,3
NKV 20/7	7,5	10		102,5	100,7	100,6	100,1	99	96,8	94,2	90,6	86,1	80,3	74,1	66,9	55,2
NKV 20/8	11,0	15		117,2	115,1	115,0	114,4	113	110,6	107,6	103,6	98,4	91,8	84,7	76,5	63,1
NKV 20/9	11,0	15		131,8	129,5	129,4	128,8	127	124,4	121,1	116,5	110,8	103,2	95,3	86,0	70,9
NKV 20/10	11,0	15		146,5	143,9	143,8	143,1	141	138,2	134,5	129,5	123,1	114,7	105,9	95,6	78,8
NKV 20/12	15,0	20		175,8	172,7	172,5	171,7	169	165,9	161,4	155,4	147,7	137,6	127,1	114,7	94,6
NKV 20/14	15,0	20		205,1	201,4	201,3	200,3	198	193,5	188,3	181,3	172,3	160,6	148,2	133,8	110,4
NKV 20/16	18,5	25		234,4	230,2	230,0	228,9	226	221,2	215,2	207,2	196,9	183,5	169,4	152,9	126,1
NKV 20/17	18,5	25		249	244,6	244,4	243,2	240	235	228,7	220,1	209,2	195	180	162,5	134

DAB PUMPS reserve the right to make modifications without prior notice

KV 3 - KV 6 - KV 10

CE

GENERAL DATA

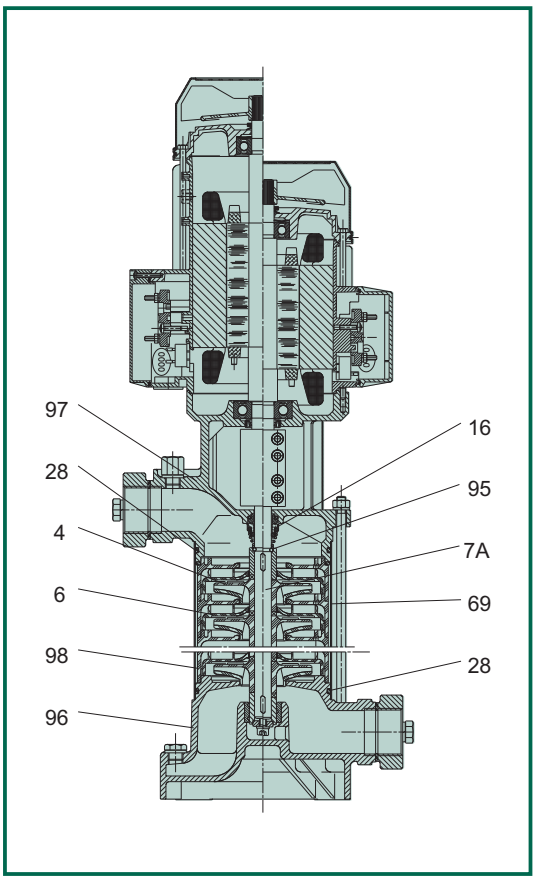
Applications
Vertical multistage centrifugal pump suitable for use in small and medium water supplies. It is ideal for pressure sets, boiler feed and hot water circulation, conveying condensate and cooling water, fire fighting and washing systems, supplying drinking water and feeding pressurised tanks, sprinkler and spraying irrigation systems.

Constructional features of the pump
Cast iron discharge and suction bodies treated against corrosion.
Technopolymer impellers, diffuser bodies and diffusers.
AISI 304 stainless steel pump liner and wear rings.
AISI 416 stainless steel pump shaft and AISI 316 stainless steel sliding bush.
Bronze sliding bush guide, self-lubricated by the pumped liquid itself.
Carbon/ceramic mechanical seal.
Connected to the motor with a rigid coupling.
Supplied standard with threaded counterflanges.

Constructional features of the motor
Induction motor, closed and cooled with external ventilation.
Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life.
Built-in thermal and current overload protection in the single-phase version.
Three-phase motors should be protected with a suitable overload protection complying with the regulations in force.
Manufactured according to CEI 2-3 and CEI 61-69 standards (EN 60335-2-41).
Motor protection: IP 55
Insulation class: F

Standard voltage:	single-phase	220-240 V / 50 Hz
	three-phase	230-400 V / 50 Hz

TECHNICAL DATA



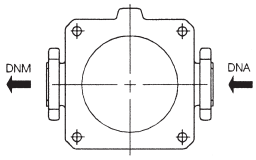
N.	PARTS*	MATERIALS
4	IMPELLER	TECNOPOLYMER B
6	DIFFUSER	TECNOPOLYMER B
7A	PUMP SHAFT	STAINLESS STEEL AISI 416 X12 CrS 13 UNI 6900/71
16	MECHANICAL SEAL	CARBON/CERAMIC
28	OR GASKET	EPDM RUBBER
69	LINER	STAINLESS STEEL AISI 304 X5 CrNi 1810 UNI 6900/71
95	OR GASKET	EPDM RUBBER
96	SUCTION BODY	CAST IRON 200 UNI ISO 185
97	DISCHARGE BODY	CAST IRON 200 UNI ISO 185
98	DIFFUSER BODY	TECNOPOLYMER B

* In contact with the liquid.

- Operating range: from 1,8 to 13,5 m³/h with head up to 139 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range: from 0°C to +35°C for domestic use (EN 60335-2-41)
from -15°C to +110°C for other uses
- Maximum ambient temperature: +40°C
- Maximum operating pressure: 18 bar (1800 kPa)
- Installation: fixed, in a vertical position
- Special executions on request: other voltages and/or frequencies

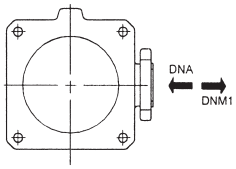
- Position of the suction and delivery connectors:

Standard version:

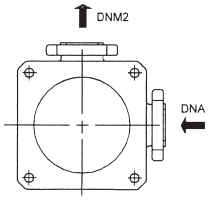


DNA-DNM

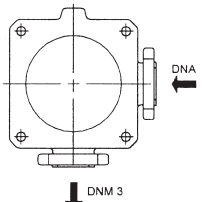
Special versions:



DNA-DNM1



DNA-DNM2



DNA-DNM3

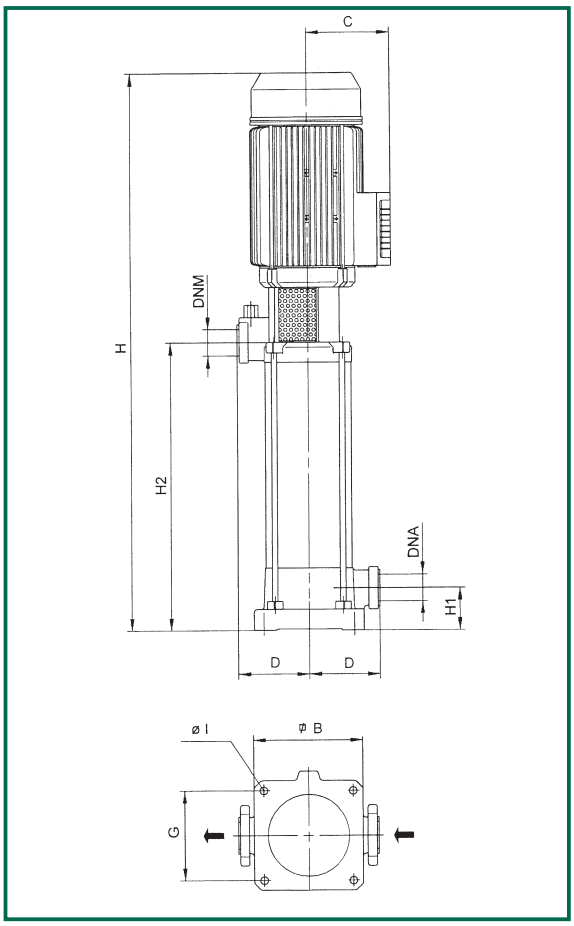
DAB PUMPS reserve the right to make modifications without prior notice

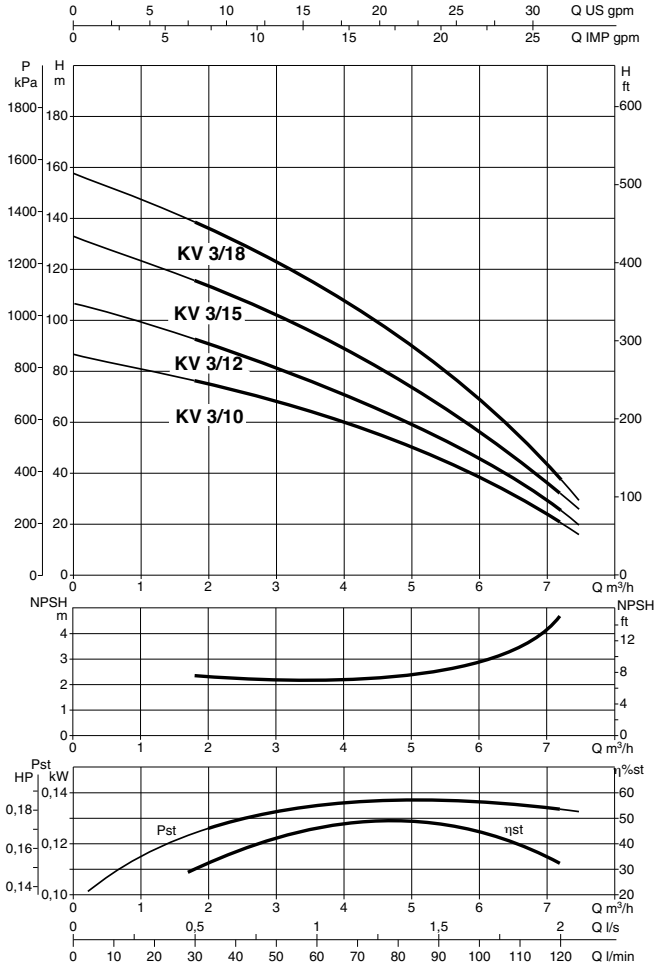
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

KV 3

2-pole motor (2900 1/min)

Liquid temperature range: from 0°C to +35°C for domestic use (EN 60355-2-41)
from -15°C to +110°C for other uses





MODEL	B	C	D	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	PACKING DIMENSIONS L/B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT Kg
KV 3/10 M	155	111	100	127	11	779	60	472	1¼	1¼	972	232	232	0,052	27,2
KV 3/10 T	155	111	100	127	11	779	60	472	1¼	1¼	972	232	232	0,052	26,3
KV 3/12 M	155	116	100	127	11	917	60	536	1¼	1¼	972	232	232	0,052	30,6
KV 3/12 T	155	111	100	127	11	843	60	536	1¼	1¼	972	232	232	0,052	28
KV 3/15 M	155	116	100	127	11	1013	60	632	1¼	1¼	1212	232	232	0,065	32,5
KV 3/15 T	155	116	100	127	11	1013	60	632	1¼	1¼	1212	232	232	0,065	31,9
KV 3/18 T	155	116	100	127	11	1109	60	728	1¼	1¼	1212	232	232	0,065	35,8

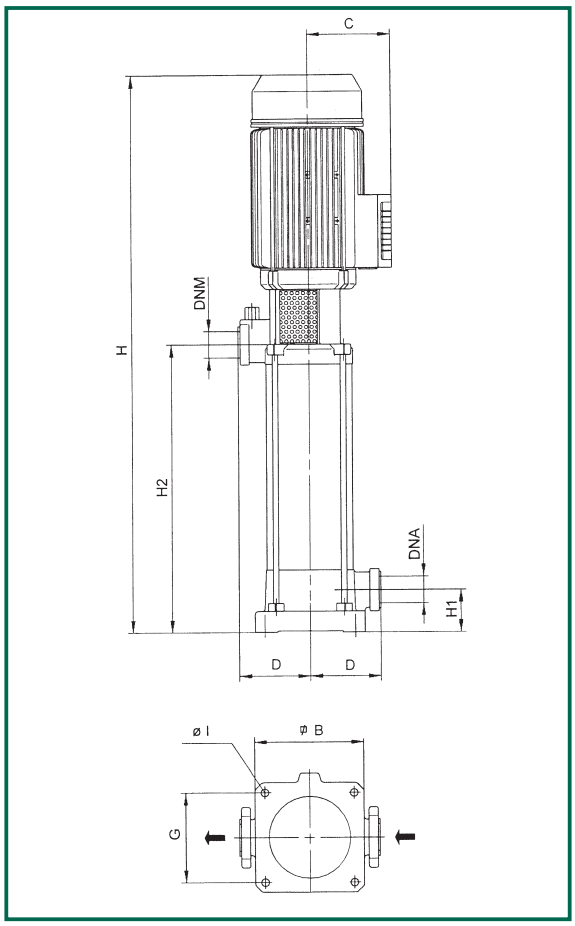
MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2850 1/min)					
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	1,8	3,6	5,4	7,2
												Q l/min	0	30	60	90	120
KV 3/10 M	1x220-240 V ~	1,77	1,1	1,5	7,8	29	2800	75	0,99	31,5	450	H (m)	88	77	63,5	47,5	21
KV 3/10 T	3x230-400 V ~	1,8	1,1	1,5	5,6-3,2	38-22	2850	81	0,78	–	–						
KV 3/12 M	1x220-240 V ~	2,34	1,5	2	9,6	38	2750	72	0,97	40	450		105,6	92,4	76,2	54,8	25,2
KV 3/12 T	3x230-400 V ~	2,06	1,5	2	6,4-3,7	43-25	2750	80	0,82	–	–						
KV 3/15 M	1x220-240 V ~	2,5	1,85	2,5	11,3	48	2850	78	0,95	40	450		132	115,5	95,3	68,6	31,5
KV 3/15 T	3x230-400 V ~	2,6	1,85	2,5	7,5-4,3	57-33	2850	78	0,94	–	–						
KV 3/18 T	3x230-400 V ~	3,3	2,2	3	10-5,8	78-45	2850	82	0,81	–	–		158,4	138,6	114,3	82,3	37,8

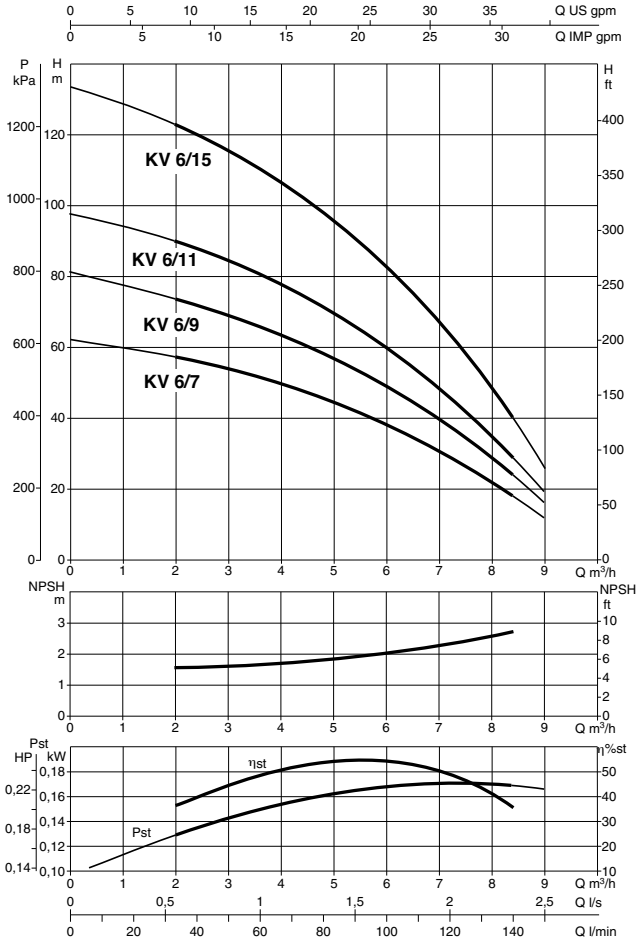
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

KV 6

2-pole motor (2900 1/min)

Liquid temperature range: from 0°C to +35°C for domestic use (EN 60355-2-41)
from -15°C to +110°C for other uses





MODEL	B	C	D	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
KV 6/7 M	155	111	100	127	11	683	60	376	1¼	1¼	972	232	232	0,052	26,1
KV 6/7 T	155	111	100	127	11	683	60	376	1¼	1¼	972	232	232	0,052	25,2
KV 6/9 M	155	116	100	127	11	821	60	440	1¼	1¼	972	232	232	0,052	29
KV 6/9 T	155	111	100	127	11	747	60	440	1¼	1¼	972	232	232	0,052	26,8
KV 6/11 M	155	116	100	127	11	885	60	504	1¼	1¼	972	232	232	0,052	29,9
KV 6/11 T	155	116	100	127	11	885	60	504	1¼	1¼	972	232	232	0,052	27,7
KV 6/15 T	155	116	100	127	11	1013	60	632	1¼	1¼	1212	232	232	0,065	34,5

MODEL	ELECTRICAL DATA VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	HYDRAULIC DATA (n ≃ 2850 1/min) Q m³/h	Q l/min	0	0	1,8	30	3,6	60	5,4	90	7,2	120	8,4	140
KV 6/7 M	1x220-240 V ~	1,68	1,1	1,5	7,5	29	2800	75	0,98	31,5	450	H (m)		62,3		57,8		51,5		42,5		29,5		18,6	
KV 6/7 T	3x230-400 V ~	1,6	1,1	1,5	5-2,9	38-22	2850	81	0,76	–	–														
KV 6/9 M	1x220-240 V ~	2,1	1,5	2	9,4	38	2850	72	0,98	40	450			80,1		74,3		66,2		54,6		38		23,9	
KV 6/9 T	3x230-400 V ~	2	1,5	2	6,2-3,6	43-25	2850	81	0,78	–	–														
KV 6/11 M	1x220-240 V ~	2,5	1,85	2,5	11,1	48	2850	78	0,95	40	450			97,9		90,8		81		66,8		46,4		29,2	
KV 6/11 T	3x230-400 V ~	2,3	1,85	2,5	7,3-4,2	43-25	2850	80	0,84	–	–														
KV 6/15 T	3x230-400 V ~	3,3	2,2	3	11-6,3	78-45	2850	83	0,78	–	–			133,5		123,8		110,4		91,1		63,3		39,8	

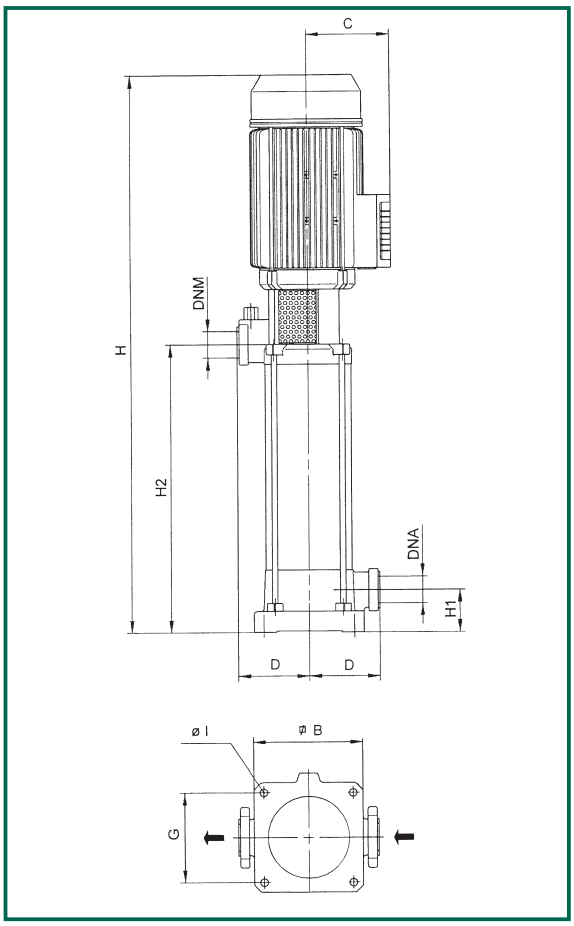
DAB PUMPS reserve the right to make modifications without prior notice

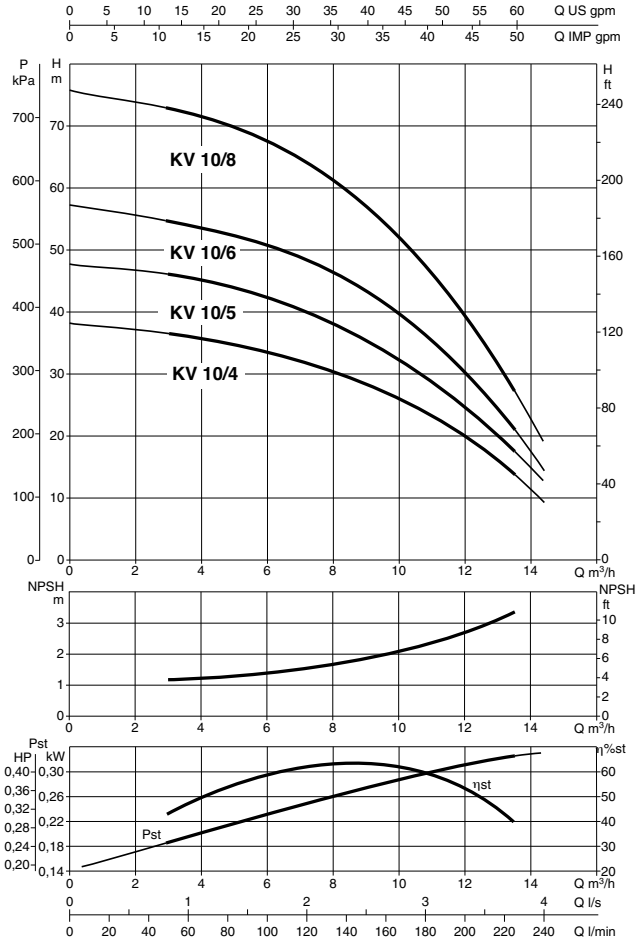
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

KV 10

2-pole motor (2900 1/min)

Liquid temperature range: from 0°C to +35°C for domestic use (EN 60355-2-41)
from -15°C to +110°C for other uses

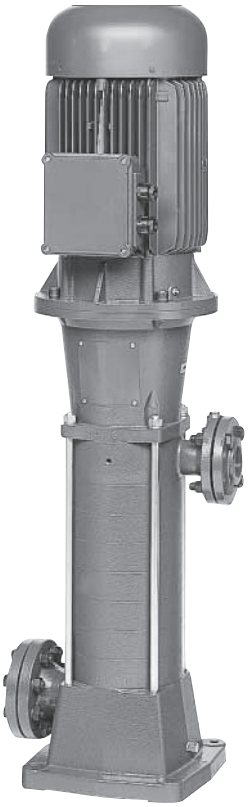




MODEL	B	C	D	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
KV 10/4 M	155	111	100	127	11	587	60	280	1¼	1¼	712	232	232	0,038	24,4
KV 10/4 T	155	111	100	127	11	587	60	280	1¼	1¼	712	232	232	0,038	23,1
KV 10/5 M	155	116	100	127	11	693	60	312	1¼	1¼	712	232	232	0,038	26,6
KV 10/5 T	155	111	100	127	11	619	60	312	1¼	1¼	972	232	232	0,052	24,6
KV 10/6 M	155	116	100	127	11	725	60	344	1¼	1¼	972	232	232	0,052	29,5
KV 10/6 T	155	111	100	127	11	725	60	344	1¼	1¼	972	232	232	0,052	27,9
KV 10/8 T	155	116	100	127	11	789	60	408	1¼	1¼	972	232	232	0,052	30,1

MODEL	ELECTRICAL DATA											HYDRAULIC DATA (n ≃ 2850 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR µF	CAPACITOR Vc	Q m³/h	0	1,8	3,6	5,4	7,2	8,4	10,2	12	13,8
												Q l/min	0	30	60	90	120	140	170	200	230
KV 10/4 M	1x220-240 V ~	1,9	1,1	1,5	8,3	29	2850	73	0,97	31,5	450	H (m)	38,2	37,4	36,2	34,4	32	29,7	25,5	20	12,6
KV 10/4 T	3x230-400 V ~	1,9	1,1	1,5	6,1-3,5	38-22	2850	79	0,83	–	–										
KV 10/5 M	1x220-240 V ~	2,4	1,5	2	10,4	45	2850	79	0,97	40	450		47,8	46,8	45,2	43	40	37,2	31,9	25	15,8
KV 10/5 T	3x230-400 V ~	2,3	1,5	2	6,8-3,9	43-25	2850	80	0,83	–	–										
KV 10/6 M	1x220-240 V ~	2,6	1,85	2,5	12,5	54	2850	81	0,98	40	450		57,3	56,1	54,2	51,6	48	44,6	38,2	30	18,9
KV 10/6 T	3x230-400 V ~	2,8	1,85	2,5	8,7-5	57-33	2850	81	0,83	–	–										
KV 10/8 T	3x230-400 V ~	3,7	2,2	3	11,8-6,8	78-45	2850	83	0,80	–	–		76,4	74,8	72,3	68,8	64	59,4	51	40	25,2

KV50 (2 and 4 poles)



CE

GENERAL INFORMATION

Applications
Vertical multistage centrifugal pump suitable for use in medium and large water supply installations. Ideal for pressure units, supply of boilers and hot water circulation, condensate and cooling water conveyance systems, fire-fighting and washing systems, supply of drinking water and autoclave supply, rainwater irrigation and spraying systems.

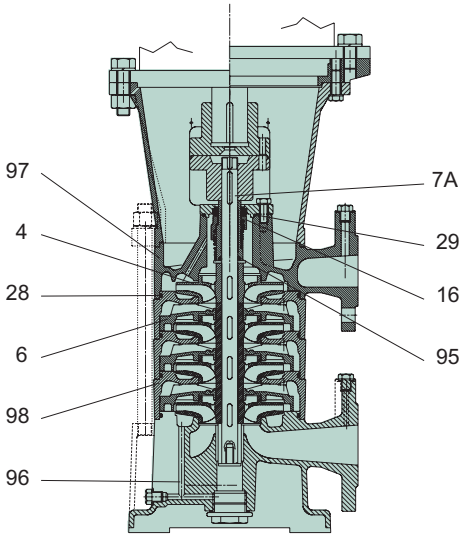
Pump construction features
Corrosion treated cast iron discharge and suction bodies, motor support and diffuser bodies.
Bronze impeller and diffuser in cast iron for KV 50.
Pump shaft and relative sliding bush in AISI 416 stainless steel.
Bronze sliding bush guide, self lubricated by the pumped liquid itself.
Carbon/tungsten carbide mechanical seal.
Driving shaft - pump shaft coupling with a rigid fitting.
Supplied with threaded counter flanges as a standard feature.

Electric motor construction features
Asynchronous, closed motor cooled by external ventilation.
Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life.
Protection is the responsibility of the user.
Built to IEC 2-3.
Protection rating: IP 55
Insulation class: F
Standard voltage: three-phase 230-400 V / 50 Hz up to 4 kW inclusive
three-phase 400 V / 50 Hz over 4 kW

DAB PUMPS reserve the right to make modifications without prior notice

TECHNICAL DATA

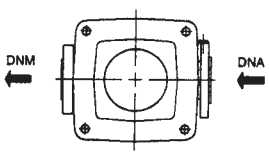
NO.	PARTS*	MATERIALS	MODELS
4	IMPELLER	BRONZE G Cu Sn5 Zn5 Pb5 UNI 7013/8ª 72	KV 50
6	DIFFUSER	CAST IRON - 200 UNI ISO 185	KV 50
7A	PUMP SHAFT	STAINLESS STEEL AISI 416 X12 CrS 13 UNI 6900/71	
16	MECHANICAL SEAL	CARBON/TUNGSTEN CARBIDE	
28	O-RING	EPDM RUBBER	
29	O-RING	EPDM RUBBER	
95	O-RING	EPDM RUBBER	
96	SUCTION BODY	200 UNI ISO 185 CAST IRON	
97	DISCHARGE BODY	200 UNI ISO 185 CAST IRON	
98	DIFFUSER BODY	200 UNI ISO 185 CAST IRON	



- Operating range: from 4 to 45 m³/h with pressure head of up to 265.5 m.
- Pumped liquid: clean, free from solids or abrasive substances, not viscous, not aggressive, not crystallised and chemically neutral and close to the characteristics of water.
- Liquid temperature range: from -15°C to +110°C
- Maximum ambient temperature: +40°C
- Maximum working pressure: KV 50 : 30 bar (3000 kPa).
- Installation: fixed, in vertical position.
- Special executions on request: alternative supply voltages and/or frequencies

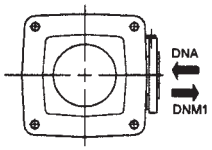
- Suction and discharge union orientation:

Standard executions:

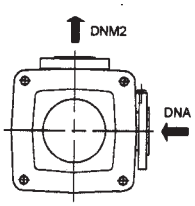


DNA-DNM

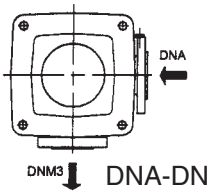
Special executions:



DNA-DNM1



DNA-DNM2



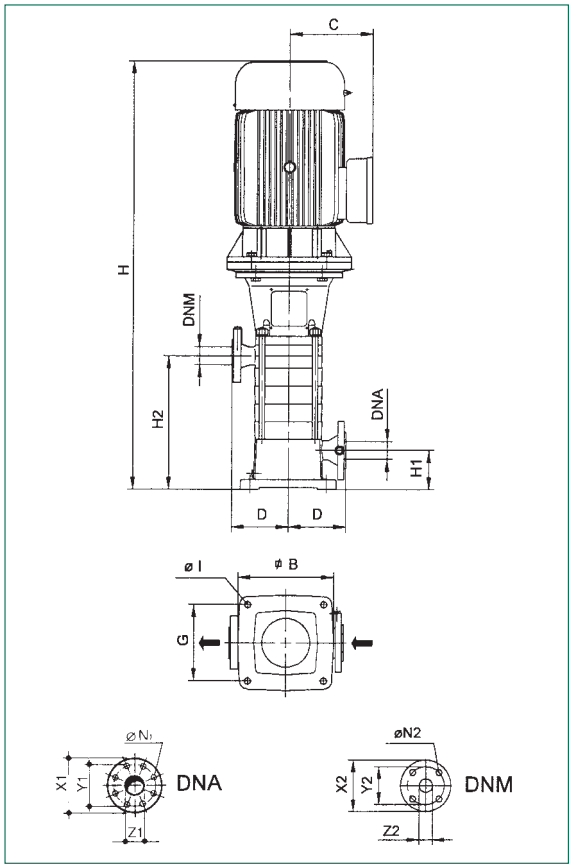
DNA-DNM3

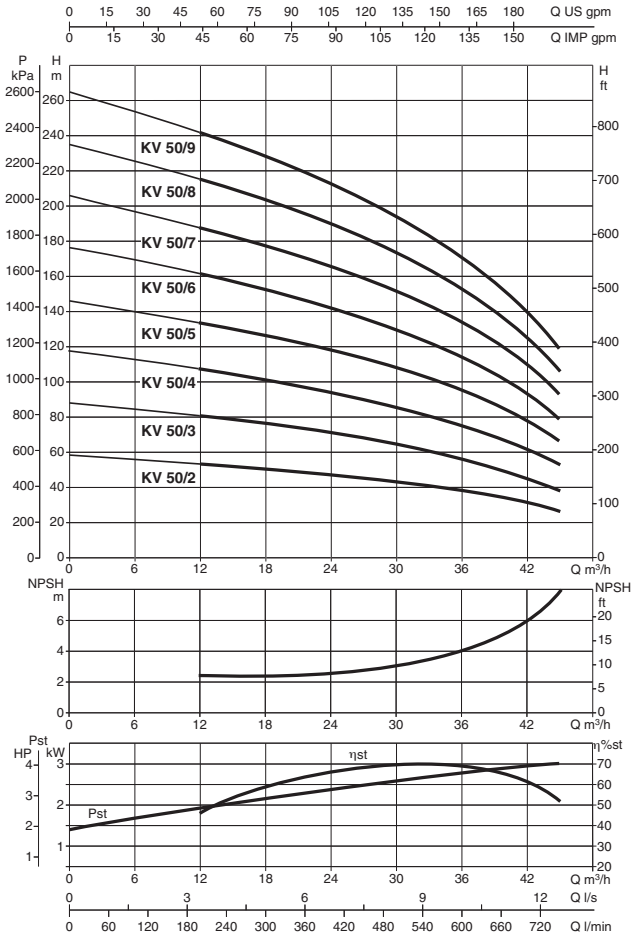
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Tolerance of curves to ISO 9906.

KV 50

Two-pole motor (2900 1/min)

Liquid temperature range: from -15°C to +110°C





MODEL	B	C	D	G	I	H	H1	H2	DNA				DNM				DIMENSION PACKING			VOLUME m³	GROSS WEIGHT Kg
									X1	Y1	Z1	N1	X2	Y2	Z2	N2	L/A	L/B	H		
KV 50/2 T	338	191	185	265	18	949	144	280	185	145	65	18	165	125	50	18	1180	530	535	0,335	138
KV 50/3 T	338	191	185	265	18	1003	144	334	185	145	65	18	165	125	50	18	1180	530	535	0,335	149
KV 50/4 T	338	191	185	265	18	1094	144	388	185	145	65	18	165	125	50	18	1180	530	535	0,335	177
KV 50/5 T	338	234	185	265	18	1298	144	442	185	145	65	18	165	125	50	18	1390	530	665	0,490	229
KV 50/6 T	338	234	185	265	18	1352	144	496	185	145	65	18	165	125	50	18	1390	530	665	0,490	242
KV 50/7 T	338	234	185	265	18	1406	144	550	185	145	65	18	165	125	50	18	1680	530	715	0,637	260
KV 50/8 T	338	234	185	265	18	1460	144	604	185	145	65	18	165	125	50	18	1680	530	715	0,637	270
KV 50/9 T	338	280	185	265	18	1600	144	658	185	145	65	18	165	125	50	18	1680	530	715	0,637	406

MODEL	ELECTRICAL DATA								HYDRAULIC DATA (n ≃ 2900 1/min)										
	POWER SUPPLY 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	12	18	24	30	36	42	45
										Q l/min	0	100	200	300	400	500	600	700	750
KV 50/2 T	3x400 V ~ Δ*	7,5	7,4	10	15	118	2900	85	0,86		59	56	53,4	50,8	47,6	43,6	38,2	31	26,4
KV 50/3 T	3x400 V ~ Δ*	10,7	9,2	12,5	18	147	2900	85	0,83		88,5	84	80,1	76,2	71,4	65,4	57,3	46,5	39,6
KV 50/4 T	3x400 V ~ Δ*	14,2	11	15	22	183	2900	87	0,88		118	112	106,8	101,6	95,2	87,2	76,4	62	52,8
KV 50/5 T	3x400 V ~ Δ*	17,5	14,7	20	30	256	2900	87	0,84	H	147,5	140	133,5	127	119	109	95,5	77,5	66
KV 50/6 T	3x400 V ~ Δ*	20	18,4	25	36	326	2900	88	0,82	(m)	177	168	160,2	152,4	142,8	130,8	114,6	93	79,2
KV 50/7 T	3x400 V ~ Δ*	23,7	22	30	40	328	2900	89	0,86		206,5	196	186,9	177,8	166,6	152,6	133,7	108,5	92,4
KV 50/8 T	3x400 V ~ Δ*	25,7	22	30	40	328	2900	89	0,87		236	224	213,6	203,2	190,4	174,4	152,8	124	105,6
KV 50/9 T	3x400 V ~ Δ*	29,2	29,4	40	56	442	2900	89	0,87		265,5	252	240,3	228,6	214,2	196,2	171,9	139,5	118,8

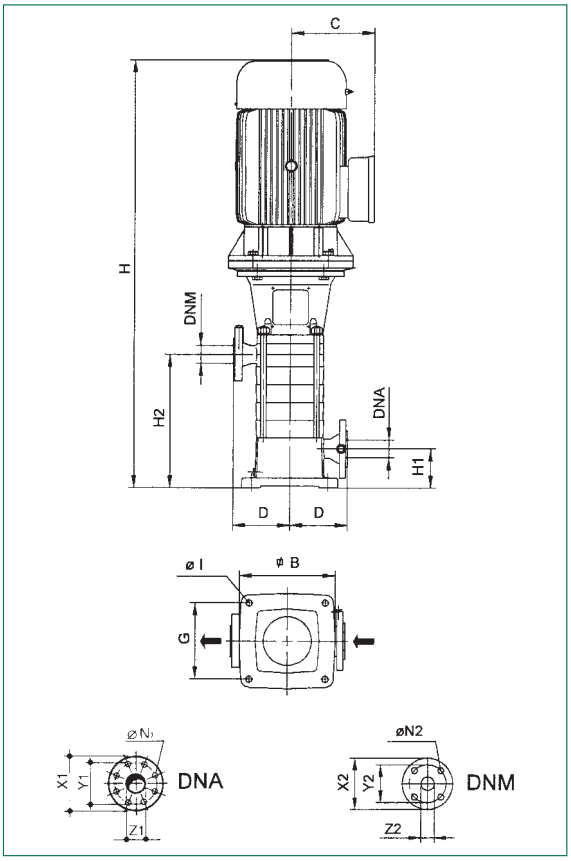
DAB PUMPS reserve the right to make modifications without prior notice

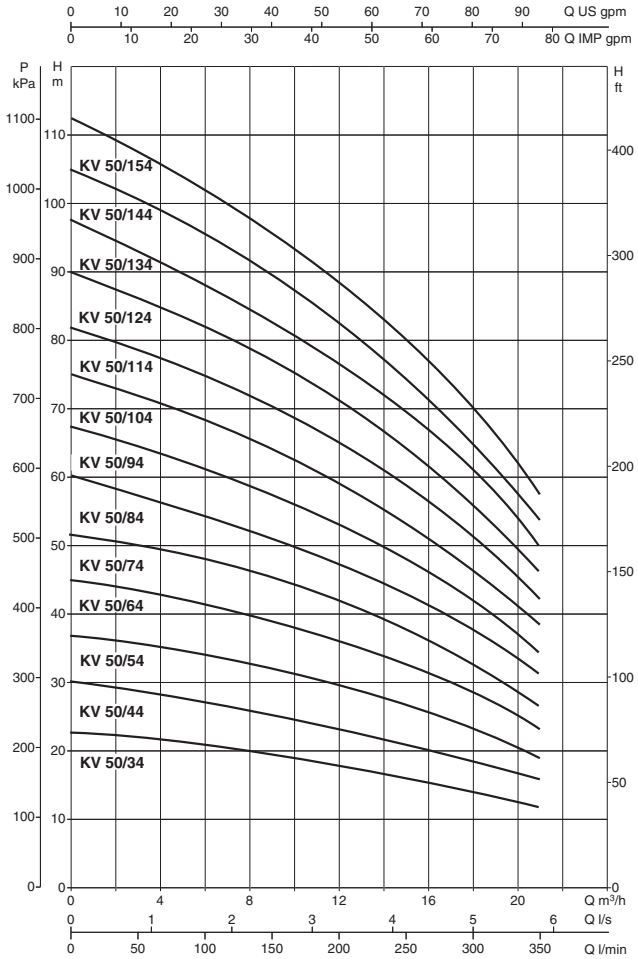
he performance curves are based on kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Tolerance of curves to ISO 9906.

KV 50

Four-pole motor (1450 1/min)

Liquid temperature range: from -15°C to +110°C





DIMENSIONS	H1	B	C	D	G	I	DNA				DNM			
							X1	Y1	Z1	N1	X2	Y2	Z2	N2
KV 50/...	144	338	185	185	265	18	185	145	65	18	165	125	50	18

MODEL	P2 NOMINAL		Q (l/min)	HYDRAULIC DATA (n ~ 1450 1/min)											H	H2	WEIGHT Kg
	kW	HP		0	25	50	75	100	125	150	200	250	300	350			
KV 50/34	1,1	1,5	H (m)	22,5	22	21,5	21	20,5	20	19	17,5	16	14	11,5	810	334	67
KV 50/44	1,5	2		30	29,5	28,5	28	27	26,5	25,5	23,5	21	18,5	15,5	890	388	81
KV 50/54	2,2	3		37	36,5	36	35	34	33	32	29,5	26,5	23	19	990	442	111
KV 50/64	2,2	3		45	44,4	43,5	42	41	40	38,5	35,5	32	28	23	1045	496	122
KV 50/74	3	4		52	51,5	50,5	49,5	48	46,5	45	41,5	37,5	32,5	26,5	1100	550	136
KV 50/84	3	4		60	59	57,5	56,5	54,5	53	51,5	47,5	42,5	37	30,5	1155	604	147
KV 50/94	4	5,5		67,5	66	64,5	63	61,5	60	58	53,5	48	42	34,5	1230	658	170
KV 50/104	4	5,5		75	73,5	72	70	68,5	66,5	64	59	53,5	46,5	38	1280	712	181
KV 50/114	4	5,5		82	81	79	77	75	72,5	70	65	58,5	51	42	1335	766	192
KV 50/124	5,5	7,5		90	88	86	84	82	79,5	77	71	64	56	46	1450	820	226
KV 50/134	5,5	7,5		97,5	95,5	93	91	88	85,5	82,5	76,5	69	61	50	1505	874	237
KV 50/144	5,5	7,5		105	103	100,5	97,5	95	92	89	82	74	65	53,5	1560	928	248
KV 50/154	5,5	7,5		112,5	110	107,5	105	102	99	95,5	88,5	80	70	57,5	1615	982	259

NKV10 - NKV15 - NKV20

CE

GENERAL DATA

Applications
Vertical multistage centrifugal pump suitable in medium and large water supplies. It is ideal for pressure sets, boiler feed and hot water circulation, conveying condensate and cooling water, fire fighting and washing systems, supplying drinking water and feeding pressurised tanks, sprinkler and spraying irrigation systems.

Constructional features of the pump
All the parts in contact with liquid are stainless.
AISI 304 stainless steel internal pump body and AISI 304 stainless steel ULTEM, impellers, pump shaft and base liner. Cast iron external pump body treated with cataphoresis, cast iron support.
“Cartridge” silicon/silicon mechanical seal exempt from maintenance.
Connected to the motor with a rigid coupling.

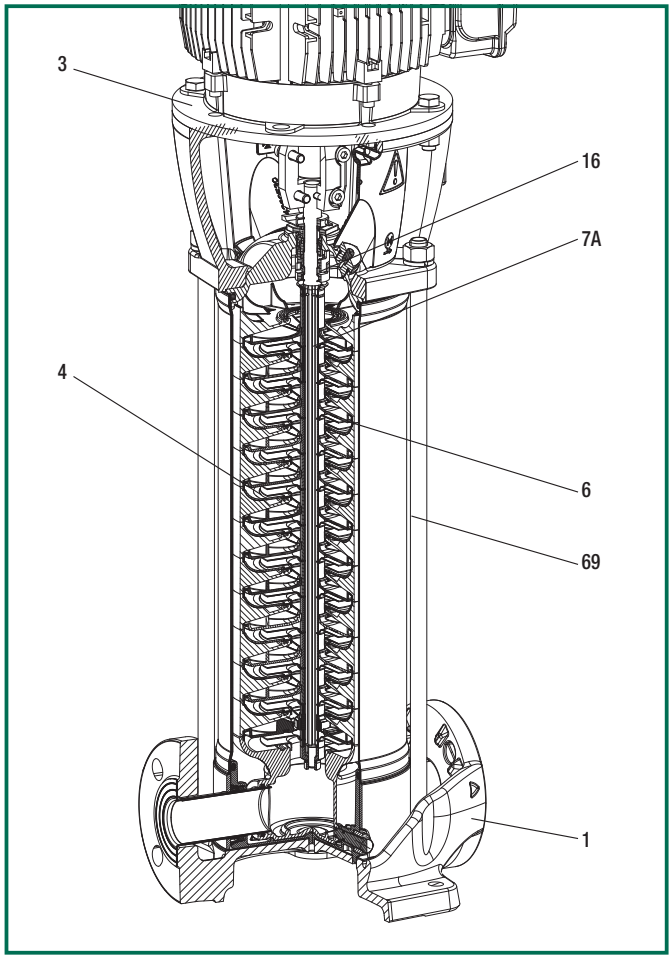
Constructional features of the motor
Induction motor, closed and cooled with external ventilation.
Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life.
Motor should be protected with a suitable overload protection complying with the regulations in force.
Manufactured according to CEI 2-3.
Motor protection: IP 55.
Insulation class: F.
Standard voltage: three-phases 230-400 V / 50 Hz up to 4 kW included
three-phases 400 V Δ / 50 Hz on the top of 4 kW.

DAB PUMPS reserve the right to make modifications without prior notice

TECHNICAL DATA

N.	PARTS		MATERIALS
1	PUMP BODY	EXTERNAL	CAST IRON WITH CATAPHORESIS
		INTERNAL*	TECHNOPOLYMER
3	SUPPORT		CAST IRON
4	IMPELLER *		INOX AISI 304
6	DIFFUSER *		TECHNOPOLYMER “ULTEM”
7A	PUMP SHAFT *		AISI 316
16	MECHANICAL SEAL *		CARTRIDGE SI/SI
69	EXTERNAL CASING *		INOX AISI 304

* In contact with the liquid.



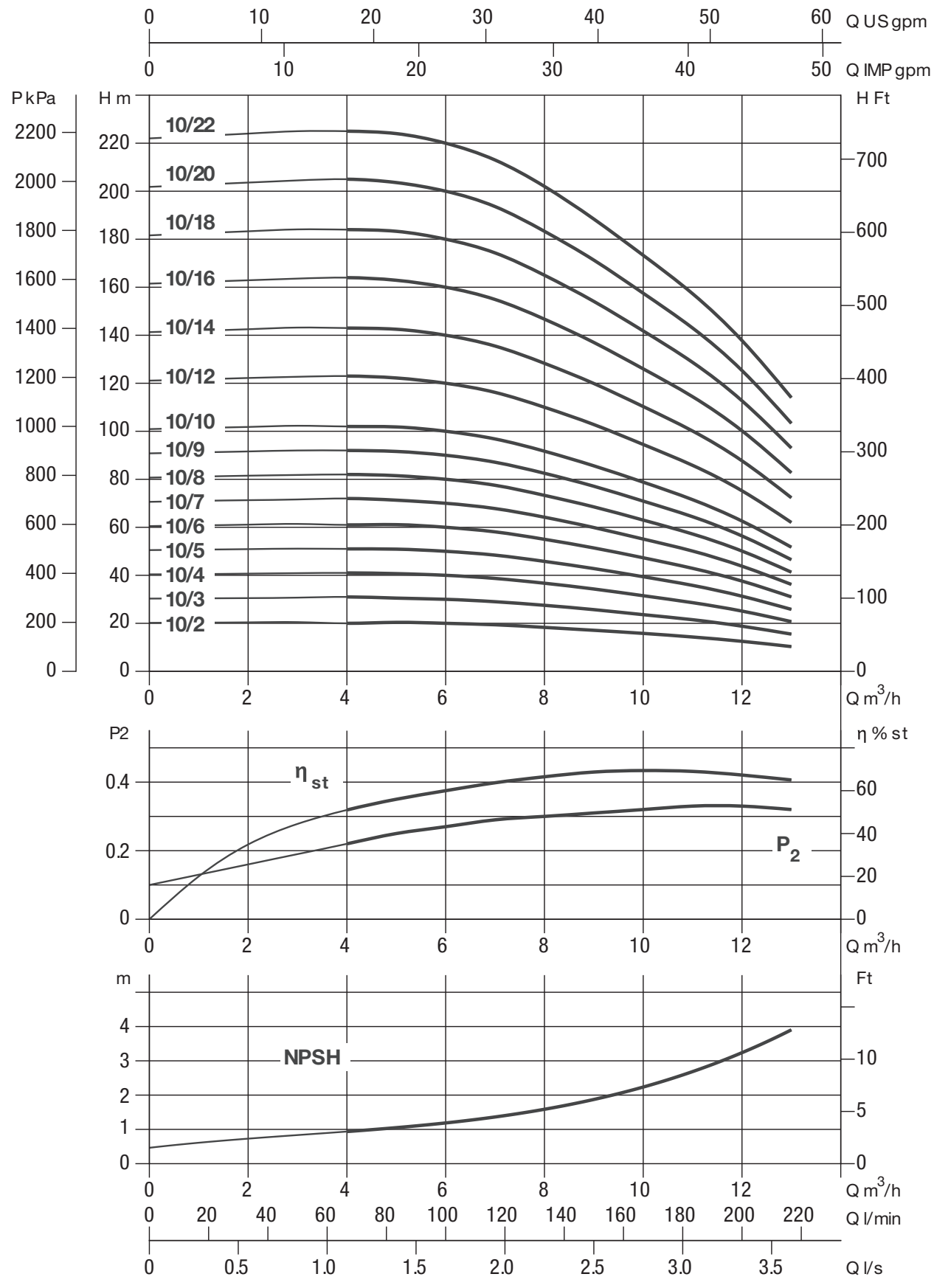
- Operating range: from 4 to 29 m³/h with head up to 249 meters.
- Pumped liquid: without solid or abrasive substances, not viscous, not aggressive, not crystallised and chemically neutral, close to water characteristics.
- Liquid temperature range: from -20°C to +90°C
- Maximum ambient temperature: +40°C
- Maximum working pressure: 25 bar (2500 kPa)
- Installation: fixed, vertical mounting.
- Special version on demand:
  - different voltage supply and/or feeding frequence
  - 60 hz version
  - EFF 1 motor, and anti-deflagrating version

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 Kg/m³. Curve tolerance according to ISO 9906.

NKV 10

2-pole motor (2900 1/min)

Liquid temperature range: from -20°C to +90°C

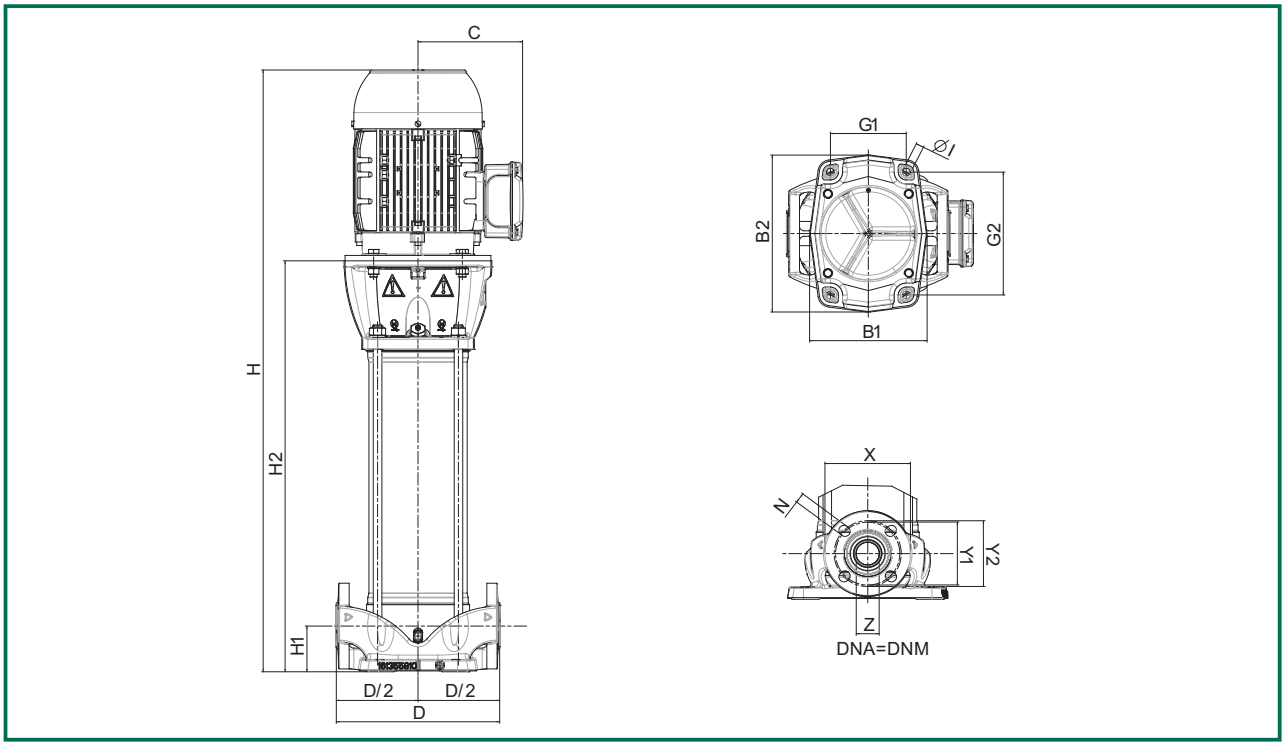


DAB PUMPS reserve the right to make modifications without prior notice

NKV 10

2-pole motor (2900 1/min)

Liquid temperature range: from -20°C to +90°C



MODEL	ELECTRICAL DATA							HYDRAULIC DATA													
	VOLTAGE 50 Hz	P2 NOMINAL		In	I st.	1/min	cosφ	Q m³/h	0	1	2	3	4	5	6	7	8	9	10	11	12	13
		kW	HP	A	A			l/min	0	16,7	33	50	66	83	100	117	132	150	167	183	200	217
NKV 10/2	220-240 Δ /380-415 Y	0,75	1,1	3,10/1,80	20/11,5	2790-2850	0,85-0,82		20,2	20,3	20,4	20,5	20	20,4	20,0	19,4	18,3	17,1	15,8	14,3	12,5	10,3
NKV 10/3	220-240 Δ /380-415 Y	1,10	1,5	4,35/2,50	30/18	2790-2840	0,86-0,84		30,3	30,4	30,5	30,7	31	30,5	30,0	29,0	27,5	25,7	23,6	21,5	18,8	15,5
NKV 10/4	220-240 Δ /380-415 Y	1,50	2	5,60/3,25	44/26	2830-2860	0,85-0,81		40,4	40,5	40,7	40,9	41	40,7	40,0	38,7	36,7	34,3	31,5	28,6	25,1	20,7
NKV 10/5	220-240 Δ /380-415 Y	2,2	3	8,15/4,70	62/36	2820-2850	0,87-0,84		50,5	50,7	50,9	51,1	51	50,9	50,0	48,4	45,8	42,8	39,4	35,8	31,3	25,8
NKV 10/6	220-240 Δ /380-415 Y	2,2	3	8,15/4,70	62/36	2820-2850	0,87-0,84		60,5	60,8	61,1	61,4	61	61,1	60,0	58,1	55,0	51,4	47,3	42,9	37,6	31,0
NKV 10/7	380-415 Δ	3,0	4	5,8	45	2870-2890	0,89		70,6	71,0	71,3	71,6	72	71,3	70,0	67,8	64,2	59,9	55,1	50,1	43,8	36,2
NKV 10/8	380-415 Δ	3,0	4	5,8	45	2870-2890	0,89		80,7	81,1	81,5	81,8	82	81,5	80,0	77,5	73,3	68,5	63,0	57,2	50,1	41,3
NKV 10/9	380-415 Δ	3,0	4	5,8	45	2870-2890	0,89	H (m)	90,8	91,2	91,6	92,0	92	91,6	90,0	87,1	82,5	77,1	70,9	64,4	56,4	46,5
NKV 10/10	380-415 Δ	4,0	5,5	7,6	60	2880-2900	0,9		100,9	101,4	101,8	102,3	102	101,8	100,0	96,8	91,7	85,6	78,8	71,5	62,6	51,7
NKV 10/12	380-415 Δ	4,0	5,5	7,6	60	2880-2900	0,9		121,1	121,6	122,2	122,7	123	122,2	120,0	116,2	110,0	102,8	94,5	85,8	75,2	62,0
NKV 10/14	380-415 Δ	5,5	7,5	11	90	2900-2920	0,89		141,3	141,9	142,5	143,2	143	142,5	140,0	135,5	128,3	119,9	110,3	100,1	87,7	72,3
NKV 10/16	380-415 Δ	5,5	7,5	11	90	2900-2920	0,89		161,5	162,2	162,9	163,6	164	162,9	160,0	154,9	146,7	137,0	126,0	114,4	100,2	82,7
NKV 10/18	380-415 Δ	7,5	10	14,8	120	2890-2910	0,89		181,6	182,5	183,3	184,1	184	183,3	180,0	174,3	165,0	154,1	141,8	128,7	112,7	93,0
NKV 10/20	380-415 Δ	7,5	10	14,8	120	2890-2910	0,89		201,8	202,7	203,6	204,5	205	203,6	200,0	193,6	183,3	171,3	157,5	143,0	125,3	103,3
NKV 10/22	380-415 Δ	7,5	10	14,8	120	2890-2910	0,89		222	223	224	225	225	224	220	213	202	188,4	173,3	157,3	137,8	114

MODEL	STAGE N°	B1	B2	G1	G2	I	C	D	D/2	H	H1	H2	DNA = DNM (DN 40)					PACKING DIMENSIONS			VOL. m³	WEIGHT Kg
													X	Y1	Y2	Z	N	L/A	L/B	H		
NKV 10/2	2	201	274	130	215	13,5	145	280	140	611,4	80	356,4	150	110	115	40	17,5	800	400	400	0,128	43,41
NKV 10/3	3	201	274	130	215	13,5	145	280	140	644,4	80	389,4	150	110	115	40	17,5	800	400	400	0,128	44,94
NKV 10/4	4	201	274	130	215	13,5	155	280	140	692,4	80	422,4	150	110	115	40	17,5	800	400	400	0,128	49,81
NKV 10/5	5	201	274	130	215	13,5	155	280	140	750,4	80	455,4	150	110	115	40	17,5	800	400	400	0,128	54,62
NKV 10/6	6	201	274	130	215	13,5	155	280	140	783,4	80	488,4	150	110	115	40	17,5	800	400	400	0,128	55,46
NKV 10/7	7	201	274	130	215	13,5	180	280	140	863,4	80	538,4	150	110	115	40	17,5	960	400	370	0,142	65,54
NKV 10/8	8	201	274	130	215	13,5	180	280	140	896,4	80	571,4	150	110	115	40	17,5	960	400	370	0,142	66,36
NKV 10/9	9	201	274	130	215	13,5	180	280	140	929,4	80	604,4	150	110	115	40	17,5	960	400	370	0,142	67,25
NKV 10/10	10	201	274	130	215	13,5	190	280	140	977,4	80	637,4	150	110	115	40	17,5	1150	500	400	0,230	77,05
NKV 10/12	12	201	274	130	215	13,5	190	280	140	1043,4	80	703,4	150	110	115	40	17,5	1150	500	400	0,230	78,70
NKV 10/14	14	201	274	130	215	13,5	210	280	140	1238,8	80	848,8	150	110	115	40	17,5	1360	500	530	0,360	107,32
NKV 10/16	16	201	274	130	215	13,5	210	280	140	1304,8	80	914,8	150	110	115	40	17,5	1360	500	530	0,360	109,00
NKV 10/18	18	201	274	130	215	13,5	210	280	140	1370,8	80	980,8	150	110	115	40	17,5	1650	500	580	0,479	116,66
NKV 10/20	20	201	274	130	215	13,5	210	280	140	1436,8	80	1046,8	150	110	115	40	17,5	1650	500	580	0,479	118,34
NKV 10/22	22	201	274	130	215	13,5	210	280	140	1502,8	80	1112,8	150	110	115	40	17,5	1650	500	580	0,479	120,02

DAB PUMPS reserve the right to make modifications without prior notice

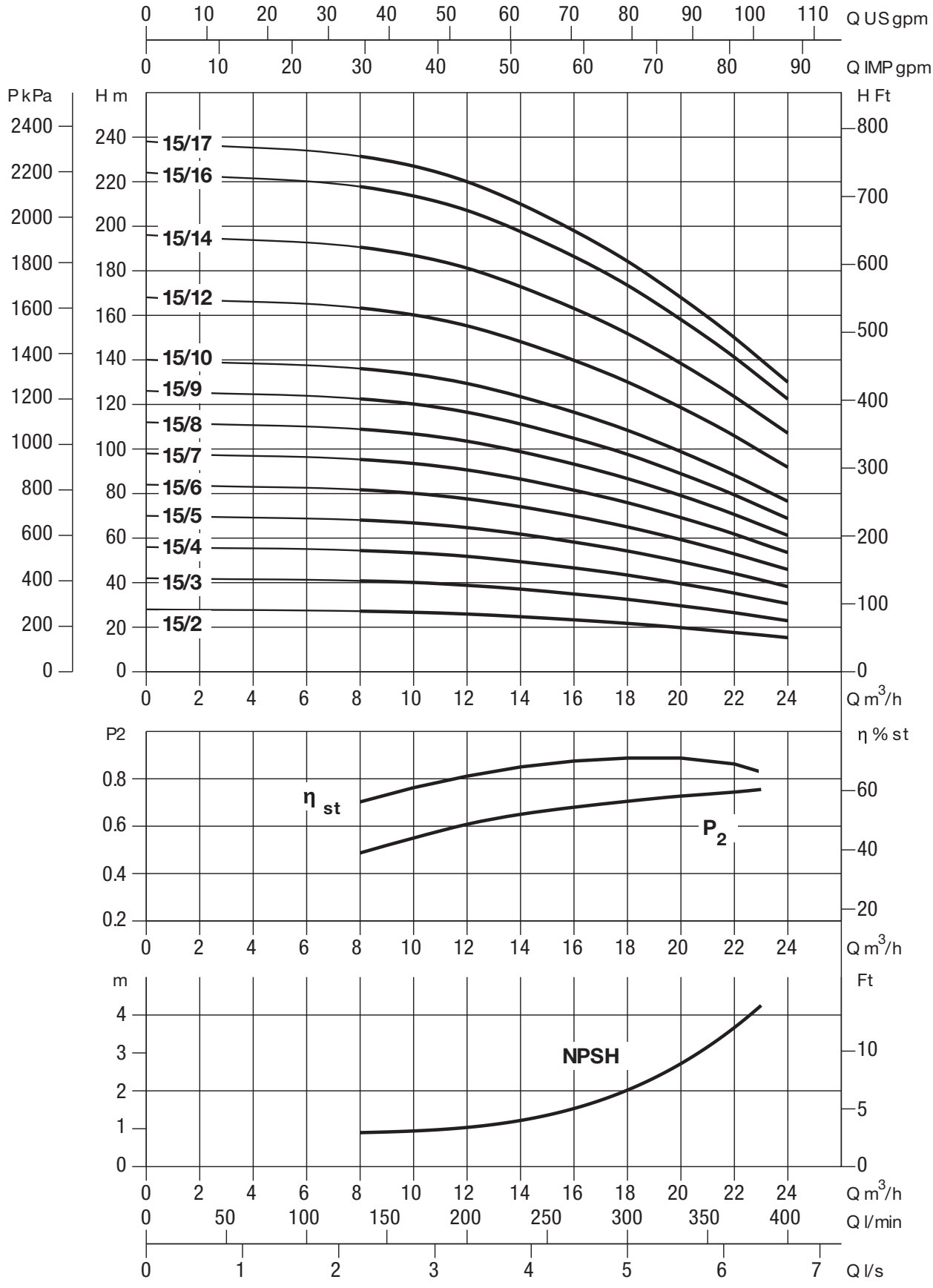
DAB PUMP PERFORMANCE

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Tolerance of curves to ISO 9906.

NKV 15

Two-pole motor (2900 1/min)

Liquid temperature range: from -20°C to +90°C



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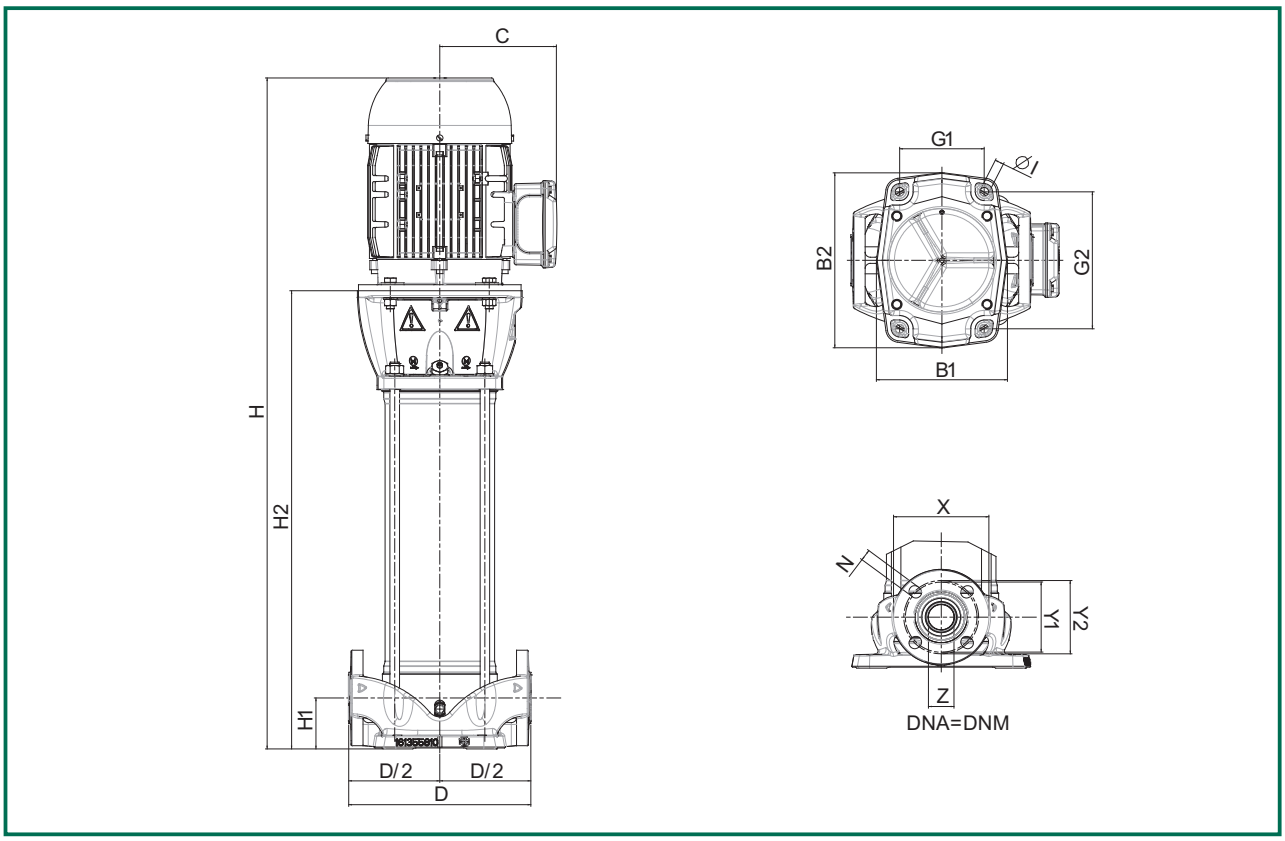
NKV 15

2-pole motor (2900 1/min)

Liquid temperature range: from -20°C to +90°C



MODEL	ELECTRICAL DATA							HYDRAULIC DATA													
	VOLTAGE 50 Hz	P2 NOMINAL		In	I st.	1/min	cosφ	Q m³/h	0	2	4	6	8	10	12	14	16	18	20	22	23	24
		kW	HP	A	A			l/min	0	33	66	99	132	167	200	233	264	300	334	367	383	396
NKV 15/2	220-240 Δ /380-415 Y	2,20	3	8,15/4,70	62/36	2820-2850	0,87-0,84	H (m)	27,2	26,9	26,7	26,6	26	26,1	25,5	24,5	23,2	21,6	19,8	17,4	16,1	14,6
NKV 15/3	380-415 Δ	3,00	4	5,8	45	2870-2890	0,89		40,8	40,4	40,0	39,8	40	39,1	38,3	36,8	34,8	32,5	29,7	26,1	24,2	21,9
NKV 15/4	380-415 Δ	4,00	5,5	7,6	60	2880-2900	0,9		54,4	53,8	53,4	53,1	53	52,1	51,0	49,0	46,4	43,3	39,6	34,8	32,2	29,2
NKV 15/5	380-415 Δ	4,00	5,5	7,6	60	2880-2900	0,9		68,0	67,3	66,7	66,4	66	65,2	63,8	61,3	58,1	54,1	49,5	43,5	40,3	36,5
NKV 15/6	380-415 Δ	5,5	7,5	11	90	2900-2920	0,89		81,6	80,7	80,1	79,7	79	78,2	76,5	73,6	69,7	64,9	59,4	52,2	48,3	43,8
NKV 15/7	380-415 Δ	5,5	7,5	11	90	2900-2920	0,89		95,2	94,2	93,4	93,0	92	91,2	89,3	85,8	81,3	75,8	69,3	60,9	56,4	51,1
NKV 15/8	380-415 Δ	7,5	10	14,8	120	2890-2910	0,89		108,8	107,6	106,8	106,2	106	104,3	102,0	98,1	92,9	86,6	79,2	69,6	64,4	58,4
NKV 15/9	380-415 Δ	7,5	10	14,8	120	2890-2910	0,89		122,4	121,1	120,1	119,5	119	117,3	114,8	110,3	104,5	97,4	89,1	78,4	72,5	65,7
NKV 15/10	380-415 Δ	11,0	15	22,4	152	2930-2940	0,89		136,0	134,5	133,5	132,8	132	130,4	127,5	122,6	116,1	108,2	99,0	87,1	80,5	73,0
NKV 15/12	380-415 Δ	11,0	15	22,4	152	2930-2940	0,89		163,2	161,4	160,2	159,4	158	156,4	153,0	147,1	139,3	129,9	118,8	104,5	96,6	87,6
NKV 15/14	380-415 Δ	11,0	15	22,4	152	2930-2940	0,89		190,4	188,3	186,9	185,9	185	182,5	178,5	171,6	162,6	151,5	138,6	121,9	112,7	102,2
NKV 15/16	380-415 Δ	15,0	20	29,5	200	2930-2950	0,89		217,6	215,2	213,6	212,5	211	208,6	204,0	196,1	185,8	173,2	158,4	139,3	128,8	116,8
NKV 15/17	380-415 Δ	15,0	20	29,5	200	2930-2950	0,89		231,2	228,65	226,9	225,76	225	221,6	216,75	208,4	197,4	184	168,3	148	136,9	124,1

MODEL	STAGE N°	B1	B2	G1	G2	I	C	D	D/2	H	H1	H2	DNA = DNM (DN 50)				PACKING DIMENSIONS			VOL. m³	WEIGHT Kg
													X	Y	Z	N	L/A	L/B	H		
NKV 15/2	2	201	274	130	215	13,5	155	300	150	651,40	90	356,4	165	125	67	18,0	800	400	400	0,128	54,68
NKV 15/3	3	201	274	130	215	13,5	180	300	150	731,40	90	406,4	165	125	67	18,0	800	400	400	0,128	64,67
NKV 15/4	4	201	274	130	215	13,5	190	300	150	779,40	90	439,4	165	125	67	18,0	800	400	400	0,128	74,93
NKV 15/5	5	201	274	130	215	13,5	190	300	150	812,40	90	472,4	165	125	67	18,0	960	400	370	0,142	76,19
NKV 15/6	6	201	274	130	215	13,5	210	300	150	974,80	90	584,8	165	125	67	18,0	1150	500	400	0,230	104,39
NKV 15/7	7	201	274	130	215	13,5	210	300	150	1007,80	90	617,8	165	125	67	18,0	1150	500	400	0,230	105,62
NKV 15/8	8	201	274	130	215	13,5	210	300	150	1040,80	90	650,8	165	125	67	18,0	1150	500	400	0,230	112,83
NKV 15/9	9	201	274	130	215	13,5	210	300	150	1073,80	90	683,8	165	125	67	18,0	1150	500	400	0,230	114,07
NKV 15/10	10	201	274	130	215	13,5	255	300	150	1251,00	90	746	165	125	67	18,0	1360	500	530	0,360	170,30
NKV 15/12	12	201	274	130	215	13,5	255	300	150	1317,00	90	812	165	125	67	18,0	1360	500	530	0,360	172,77
NKV 15/14	14	201	274	130	215	13,5	255	300	150	1383,00	90	878	165	125	67	18,0	1650	500	580	0,479	175,31
NKV 15/16	16	201	274	130	215	13,5	255	300	150	1449,00	90	944	165	125	67	18,0	1650	500	580	0,479	185,78
NKV 15/17	17	201	274	130	215	13,5	255	300	150	1762,50	90	1257,5	165	125	67	18,0	1850	500	580	0,537	187,02

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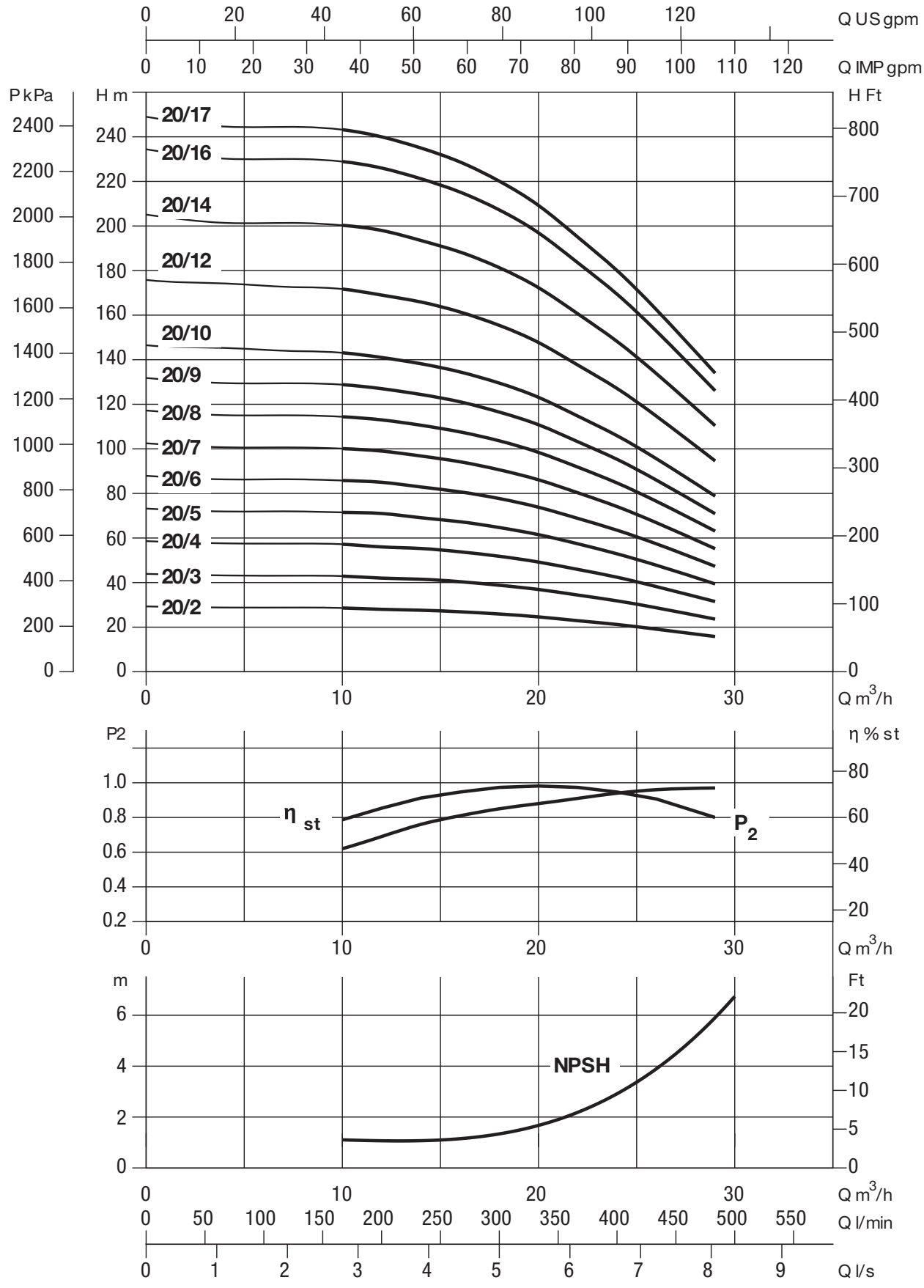
DAB PUMP PERFORMANCE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 Kg/m³. Curve tolerance according to ISO 9906.

NKV 20

2-pole motor (2900 1/min)

Liquid temperature range: from -20°C to +90°C



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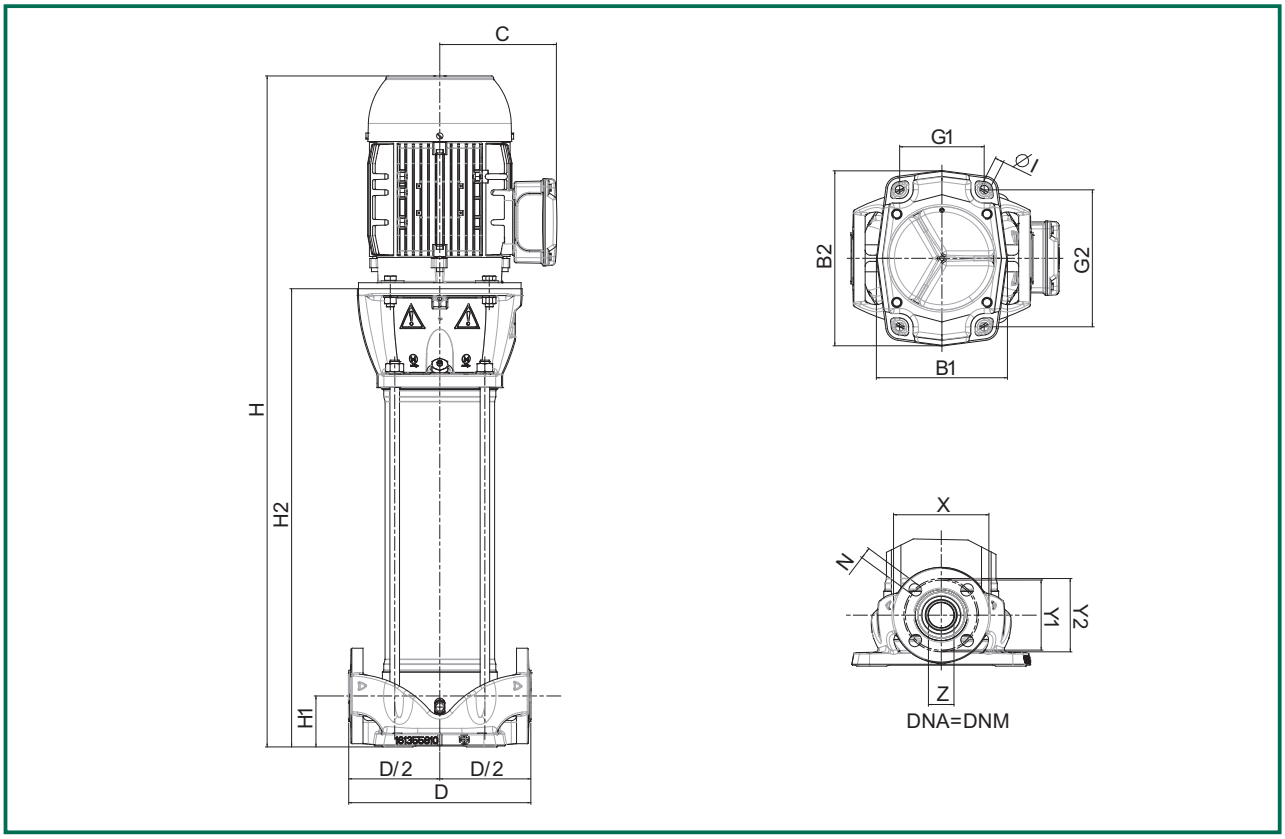
DAB PUMP PERFORMANCE

NKV 20

2-pole motor (2900 1/min)

Liquid temperature range: from -20°C to +90°C



MODEL	ELECTRICAL DATA							HYDRAULIC DATA												
	VOLTAGE 50 Hz	P2 NOMINAL		In	I st.	1/min	cosφ	Q m³/h	0	4	8	10	12	14	16	18	20	22	24	26	29
		kW	HP	A	A			l/min	0	66	132	167	200	233	264	300	334	367	396	433	483
NKV 20/2	220-240 Δ/380-415Y	2,20	3	8,15/4,70	62/36	2820-2850	0,87-0,84	H (m)	29,3	28,8	28,8	28,6	28	27,6	26,9	25,9	24,6	22,9	21,2	19,1	15,8
NKV 20/3	380-415 Δ	4,00	5,5	7,6	60	2880-2900	0,9		43,9	43,2	43,1	42,9	42	41,5	40,4	38,8	36,9	34,4	31,8	28,7	23,6
NKV 20/4	380-415 Δ	5,50	7,5	11	90	2900-2920	0,89		58,6	57,6	57,5	57,2	56	55,3	53,8	51,8	49,2	45,9	42,4	38,2	31,5
NKV 20/5	380-415 Δ	5,50	7,5	11	90	2900-2920	0,89		73,2	71,9	71,9	71,5	71	69,1	67,3	64,7	61,5	57,4	52,9	47,8	39,4
NKV 20/6	380-415 Δ	7,5	10	14,8	120	2890-2910	0,89		87,9	86,3	86,3	85,8	85	82,9	80,7	77,7	73,8	68,8	63,5	57,4	47,3
NKV 20/7	380-415 Δ	7,5	10	14,8	120	2890-2910	0,89		102,5	100,7	100,6	100,1	99	96,8	94,2	90,6	86,1	80,3	74,1	66,9	55,2
NKV 20/8	380-415 Δ	11,0	15	22,4	152	2930-2940	0,89		117,2	115,1	115,0	114,4	113	110,6	107,6	103,6	98,4	91,8	84,7	76,5	63,1
NKV 20/9	380-415 Δ	11,0	15	22,4	152	2930-2940	0,89		131,8	129,5	129,4	128,8	127	124,4	121,1	116,5	110,8	103,2	95,3	86,0	70,9
NKV 20/10	380-415 Δ	11,0	15	22,4	152	2930-2940	0,89		146,5	143,9	143,8	143,1	141	138,2	134,5	129,5	123,1	114,7	105,9	95,6	78,8
NKV 20/12	380-415 Δ	15,0	20	29,5	200	2930-2950	0,89		175,8	172,7	172,5	171,7	169	165,9	161,4	155,4	147,7	137,6	127,1	114,7	94,6
NKV 20/14	380-415 Δ	15,0	20	29,5	200	2930-2950	0,89		205,1	201,4	201,3	200,3	198	193,5	188,3	181,3	172,3	160,6	148,2	133,8	110,4
NKV 20/16	380-415 Δ	18,5	25	35,5	266	2940-2950	0,91		234,4	230,2	230,0	228,9	226	221,2	215,2	207,2	196,9	183,5	169,4	152,9	126,1
NKV 20/17	380-415 Δ	18,5	25	35,5	266	2940-2950	0,91		249	244,6	244,4	243,2	240	235	228,7	220,1	209,2	195	180	162,5	134

MODEL	STAGE N°	B1	B2	G1	G2	I	C	D	D/2	H	H1	H2	DNA = DNM (DN 50)				PACKING DIMENSIONS			VOL. m³	WEIGHT Kg
													X	Y	Z	N	L/A	L/B	H		
NKV 20/2	2	201	274	130	215	13,5	155	300	150	651,40	90	356,4	165	125	67	18	800	400	400	0,128	45
NKV 20/3	3	201	274	130	215	13,5	190	300	150	746,40	90	406,4	165	125	67	18	800	400	400	0,128	60
NKV 20/4	4	201	274	130	215	13,5	210	300	150	908,80	90	518,8	165	125	67	18	960	400	370	0,142	74
NKV 20/5	5	201	274	130	215	13,5	210	300	150	941,80	90	551,8	165	125	67	18	960	400	370	0,142	76
NKV 20/6	6	201	274	130	215	13,5	210	300	150	974,80	90	584,8	165	125	67	18	1150	500	400	0,230	83
NKV 20/7	7	201	274	130	215	13,5	210	300	150	1007,80	90	617,8	165	125	67	18	1150	500	400	0,230	84
NKV 20/8	8	201	274	130	215	13,5	255	300	150	1185,00	90	680	165	125	67	18	1360	500	530	0,360	116
NKV 20/9	9	201	274	130	215	13,5	255	300	150	1218,00	90	713	165	125	67	18	1360	500	530	0,360	117
NKV 20/10	10	201	274	130	215	13,5	255	300	150	1251,00	90	746	165	125	67	18	1360	500	530	0,360	128
NKV 20/12	12	201	274	130	215	13,5	255	300	150	1317,00	90	812	165	125	67	18	1360	500	530	0,360	141
NKV 20/14	14	201	274	130	215	13,5	255	300	150	1383,00	90	878	165	125	67	18	1650	500	580	0,479	143
NKV 20/16	16	201	274	130	215	13,5	255	300	150	1504,00	90	944	165	125	67	18	1650	500	580	0,479	161
NKV 20/17	17	201	274	130	215	13,5	255	300	150	1817,50	90	1257,5	165	125	67	18	1850	500	580	0,537	162

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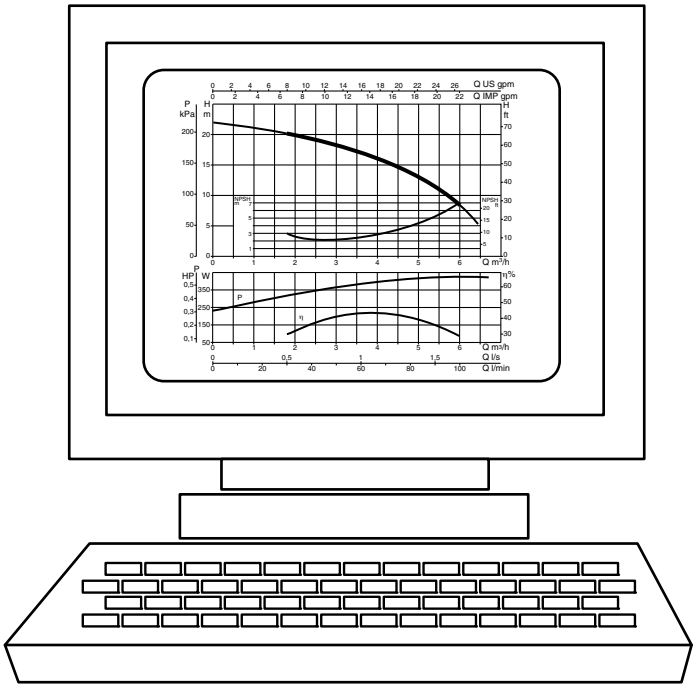
DAB PUMP PERFORMANCE

TECHNICAL APPENDIX



CONVERSION TABLE FOR UNITS OF MEASUREMENT

Characteristic	System	Units	Symbol	CONVERSION FACTORS		
				System	International System (SI)	Imperial System
LENGHT	Technical and International	metre decimetre centimetre millimetre	m dm cm mm	1 dm = 0,1 m 1 cm = 0,01 m 1 mm = 0,001 m		1 m = 3,28 ft 1 dm = 3,937 in 1 cm = 0,3937 in
	Imperial	inch foot yard	in ft yd	1" = 25,4 mm 1 ft = 0,3048 m 1 yd = 0,9144 m		 1 ft = 12" 1 yd = 3 ft = 36"
AREA	Technical and International	metres squared centimetres squared millimetres squared	m^2 cm^2 mm^2	 $1cm^2 = 0,0001\ cm^2$ $1\ mm^2 = 0,01\ cm^2$		$1m^2 = 1.196$ sq.yd $1m^2 = 10.764$ sq.ft $1\ cm^2 = 0.155$ sq.in
	Imperial	squared inch squared foot squared yard	sq.in sq.ft sq.yd	1 sq.in = 6,45 cm^2 1 sq.ft = 0,0929 m^2 1 sq.yd = 0,836 m^2		1 sq.ft = 144 sq.in 1 sq.yd = 1.296 sq.in 1 sq.yd = 9 sq.ft
VOLUME	Technical and International	metre cubed decimetre cubed centimetre cubed litre cubed	m^3 cm^3 mm^3 l	$1\ m^3 = 1.000\ dm^3$ $1\ cm^3 = 0.001\ m = 1.000\ cm^3$ $1\ mm^3 = 0.001\ dm^3$ $1\ l = dm^3$		$1\ dm^3 = 0.22$ Imp.gal $1\ dm^3 = 0.264$ US.gal $1\ dm^3 = 61.0$ cu.in
	Imperial	cubic inch cubic feet imperial gallons U.S. gallons	cu.in cu.ft Imp.gal USA.gal	1 cu.in = 16,39 cm^3 1 cu.ft = 28,34 dm^3 1 Imp.gal = 4,546 dm^3 1 US.gal = 3,785 dm^3		 1 Imp.gal = 1,201 US.gal 1 US.gal = 0,833 Imp.gal
TEMPERATURE	Technical and International	degrees Centigrade degrees Kelvin	°C °K	°C = °K-273 °K = °C + 273		°C = 5/9 x (°F - 32) °K = 5/9 x (°F - 32) + 273
	Imperial	degrees Fahreinheit	°F	°F = 9/5 x °C + 32		–
	Freezing point of water at atmospheric pressure: 0°C = 273 °K = 32 °F Boiling point of water at atmospheric pressure: 100°C = 373 °K = 212 °F					
WEIGHT AND FORCE	Technical	kilogram	kg	–	1 kg = 9,81 N	1 kg = 2,203 lb
	International	Newton	N	1 N = 0,102 kg	–	1 N = 0,22546 lb
	Imperial	pound	lb	1 lB = 0,454 kg	1 lb = 4,452 N	–
SPECIFIC WEIGHT	Technical	kilogram per decimetre cubed	kg/dm^3	–	$1\ kg/dm^3 = 9,807\ N/dm^3$	$1\ kg/dm^3 = 62,46$ lb/cu.ft
	International	Newton per decimetre cubed	N/dm^3	$1\ N/dm^3 = 0,102\ kg/dm^3$	–	$1\ N/dm^3 = 6,369$ lb/cu.ft
	Imperial	pound per cubic foot	lb/cu.ft	1 lb/cu.ft $= 0,01600\ kg/dm^3$	1 lb/cu.ft $= 0,160\ N/dm^3$	–
PRESSURE	Technical	atmospheres	kg/cm^2	–	$1\ kg/cm^2 = 98,067$ kPa $1\ kg/cm^2 = 0,9807$ bar	$1\ kg/cm^2 = 14,22$ psi
	International	Pascal kiloPascal bar	Pa kPa bar	1 kPa $= 0,0102\ kg/cm^2$ 1 bar $= 1,02\ kg/cm^2$	1 kPa = 1.000 Pa 1 bar = 100.000 Pa	1 kPa = 0,145 psi 1 bar = 14,50 psi
	Imperial	pounds per square inch	psi	1 psi $= 0,0703\ kg/cm^2$	1 psi = 0,06895 bar 1 psi = 6,894 kPa	–
FLOW	Technical	litres per minute litres per second metres cubed per second	l/min l/s m^3/h	1 l/min = 0,0167 l/s 1 l/s = 3,6 m^3/h $1\ m^3/h = 16,667$ l/min	1 l/s = 0,001 m^3/s	1 l/min = 0,22 imp.g.p.m. 1 l/min = 0,264 US.g.p.m. $1\ m^3/h = 3,666$ imp.g.p.m. $1\ m^3/h = 4,403$ US.g.p.m.
	International	metres cubed per second	m^3/s	$1\ m^3/s = 1.000$ l/s $1\ m^3/s = 3.600\ m^3/h$	–	$1\ m^3/s = 13.198$ imp.g.p.m. $1\ m^3/s = 15.852$ US.g.p.m.
	Imperial	Imperial gallons per minute U.S. gallons per minute	Imp.g.p.m. US.g.p.m.	1 Imp.g.p.m. = 4,546 l/min 1 Imp.g.p.m. = 0,273 m^3/h 1 US.g.p.m. = 3,785 l/min 1 US.g.p.m. = 0,227 m^3/h	–	1 Imp.g.p.m. = 1,201 US.g.p.m. 1 US.g.p.m. = 0,833 Imp.g.p.m.
TORQUE	Technical	kilogram metre	kgm	–	1 kgm = 9,807 Nm	1 kgm = 7,233 ft.lb
	International	Newton metre	Nm	1 Nm = 0,102 kgm	–	1 Nm = 0,7376 ft.lb
	Imperial	foot pound	ft.lb	1 ft.lb = 0,138 kgm	1 ft.lb = 1,358 Nm	–
WORK AND ENERGY	Technical	kilogrammo metres horsepower hours	kgm CVh		1 kgm = 9,807 J 1 CVh = 0,736 kWh	1 kgm = 7,233 ft.lb 1 Nm = 0,986 HP.hr.
	International	Joule kiloWatt hour	J kWh	1 J = 0,102 kgm kWh = 1,36 CVh	–	1 Nm = 0,7376 ft.lb 1 Nm = 0,7376 ft.lb
	Imperial	foot pound Horsepower hour	ft.lb HP.hr.	1 ft.lb = 0,138 kgm 1 HP.hr. = 1,014 CVh	1 ft.lb = 1.358 Nm 1 HP.hr. = 0,746 kWh	–
POWER	Technical	Horse power	HP	1 HP = 0,736 kW	1 HP = 736 W	–
	International	Watt kiloWatt	W kW	1 W = 0,00136 HP 1 kW = 1,36 HP	1 kW = 1.000 W	–
KINETIC VISCOSITY	Technical	stokes centistokes	St cSt	$1\ St = 1\ cm^2/s$ 1 cSt = 0,01 St	$1\ St = 0,0001\ m^2/s$	$1\ St = 0,00107\ ft^2/s$
	International	metre squared per second	m^2/s	$1\ m^2/s = 10.000$ St	$1\ m^2/s = 10.000\ cm^2/s$	$1\ m^2/s = 10,764\ ft^2/s$
	Imperial	square feet per second	ft^2/s	$1\ ft^2/s = 929$ St	$1\ ft^2/s = 0,0929\ m^2/s$	–

GENERAL INFOMATION

Terms used in pumping

The following is a list of terms used in pumping with an explanation of what they mean. All measurements are given in Technical units and reference should be made to the chart on page 2 for their equivalents.

Head

Head means height, difference in level, gradient. When it is said that a pump has a flow of Q litres per second and a head of 30 metres it means that the pump is capable of raising Q litres of liquid through 30 metres every second.
For any given pump, the head is determined by the details of its construction such as the external diameter of the impeller and the speed of rotation and is independent of the liquid being pumped. This means that the pump can raise through 30 metres, Q litres per second of water, petrol mercury, etc and only the power of the motor will have to be different for the three examples given.

Specific weight

The specific weight of a liquid or fluid is the weight per unit volume of the liquid. Specific weight is usually measured in kg/dm^3 remembering that 1 dm^3 = 1 litre.

Pressure

Pressure means weight per unit area (e.g. kg/cm^2) and is a term which should not be confused with head. In the case of liquids, the pressure that the liquid exerts on a surface is given by the product of the height of the liquid and its specific weight. For this reason the column of several km of air on the earth's surface produces at sea level a pressure of about 1kg/cm^2 (equal to approx. 1 atmosphere). If the same column were of water rather than air, the pressure would be some 700 to 800 times greater, due to the fact that water has a specific weight some 700-800 times greater than that of air.
Bearing in mind that a column of water 10m high is equivalent to approx. 1 kg/cm^2, if we placed a manometer on the outlet of our example pump (30m head) the following pressure increases would be measured.

a) with petrol (specific weight 0.7 kg/dm^3) = 0.7 x 0.001 x 30 x 100 = 2.1 kg/cm^2
b) with water (specific weight 1.0 kg/cm^3) = 1 x 0.001 x 30 x 100 = 3.0 kg/cm^2
c) with mercury (specific weight 13.6 kg/cm^3) = 13.6 x 0.001 x 30 x 100 = 40.8 kg/cm^2

Flow

Flow means the quantity of liquid to pass across a surface, such as the delivery aperture of a pump or a cross section of a pipe, in a unit of time.
This can be measured in litres per minute (l/min), litres per second (l/s), cubic metres per hour (m^3/h) etc.
It should be noted that there is a close analogy between the flow of water in a pipe and the flow of electricity in a wire. Hydraulic head is equivalent to electrical potential or voltage and hydraulic flow is equivalent to electrical current.
Even the behaviour of these properties is the same. Just as a thin wire restricts the flow of electricity more than a thick one, so a small bore pipe offers a greater resistance to the flow of a liquid than a large one.
In hydraulics this resistance is called head loss and is dependent on the quality of the pipe (e.g. material, shape, roughness etc.) and on its cross sectional area. The velocity of the liquid is also a factor.

Head loss

Head loss is that part of the head, possessed by the liquid, which is lost in passing through a pipe or a valve or a filter etc. This loss is not recoverable as it is lost due to friction. Returning to the electrical analogy, just as the losses in a cable are proportionately higher as the current increases, so the head loss is proportionately greater as the speed of the liquid increases. So the more the flow is restricted by scaled pipes, clogged filters, partially closed valves etc. the greater the head loss will be.

Pumps

A machine which is used to give a certain head to a liquid which passes through it. The head can be used to raise the liquid to a higher level or to flow within a pipe.
The characteristics of a pump are:

a) **Flow** (that is the quantity of liquid that is moved through the pump in a unit of time)

b) **Head** (that is the height through which the pump is capable of heading the liquid)

According to the relationship existing between the flow and head it is possible to have:

a) Pumps of small flow and large head (piston pumps, rotary pumps, small centrifugal pumps)

b) Pumps of medium fl`ow and head (centrifugal pumps in general)

c) Pumps of large flow and small head (heliocentrifugal pumps and propeller pumps)

The centrifugal pumps, heliocentrifugal pumps and propeller pumps have a rotary motion and their speed is measured in revolutions per minute (rpm). For these pumps operating at a given speed for any given value of flow, there is only one value of head. This means that if it is wished to vary the performance of a pump of this type, it is necessary to vary the speed accordingly. In effect the liquid which is passing through the pump is supplied with energy related to the head and velocity of the liquid itself.
This supplied energy is known as delivered power.

Delivered power

Delivered power is the power delivered by the pump to the liquid. The value of this delivered power depends upon three factors: flow, head and specific weight of the liquid. For example a pump which delivers petrol does less work than when it delivers sulphuric acid, because the specific weights of the two liquids are different. To pump a liquid a pump must be drivenby a motor which in the majority of cases is either electric or internal combustion. The power which the pump needs to operate is the absorbed power.

Absorbed power

Absorbed power is the power that the pump absorbs from the motor to give the liquid the delivered power.
Not all the absorbed power becomes delivered power as some power is lost through friction and another more important part is lost within the pump itself through hydraulic losses. It is therefore clear that the delivered power is always less than the absorbed power and the relation between the two is a number which is always less than one and is expressed as a percentage. This number is known as the efficiency.

Efficiency

The efficiency is obtained by dividing the delivered power by the absorbed power. For example a pump that is 75% efficient only delivers 75% of the absorbed power, the remaining 25% being lost as heat, friction etc. It is evident that the higher the efficiency of a pump the smaller the proportion of the absorbed power that is lost. If then the cost of energy is taken into account it is immediately apparent just how important efficiency is.
If we compare two pumps with 1 HP delivered power, one being 50% efficient and the other 60%, it can be seen that the first will need an absorbed power of only 2 HP to supply 1 instead of the second only 1,67 HP. This means that the efficiency of a pump expresses better than any other parameter the quality of the pump and the relative saving in terms of operating costs.

The head of a pump and its measurement

The head of a pump means the head given by the pump and it is generally expressed in metres. To ascertain the head of a surface pump it is necessary to measure, while it is operating, the value of the head at the suction and delivery connections, taking care that both readings are taken in relation to one common level known as the plane of reference. According to the installation it is possible to have two cases:

1) The value of the head at the suction connection is negative (i.e. below zero on the manometer) which is the case whent he level of the liquid being raised is lower than the level of the suction connection.
2) The value of the head at the suction connection is positive (i.e. above zero on the manometer) which is the case when the level of the liquid being raised is above the level of the suction connection (flooded suction).

In the first case the head of the pump is given by the sum of the two readings while in the second it is given by subtracting the value of the head at the suction connection from the value at the delivery connection.
It is necessary finally to check that the readings at the suction and delivery connections have been taken from apertures of the same diameter so that the readings are not distorted by a difference in velocity of the liquid. The correction is made by calculating the dynamic head, that is the part of the head possessed by the liquid due to its movement. The dynamic head Hd, expressed in metres, is calculated by the following formula.

$$Hd = \frac{v^2}{2g}$$

where: v = speed of the fluid at the measuring point, given in m/s
g = acceleration of gravity (9,81) given in m/s^2
2g = 2 x 9,81 = 19,62 m/s^2

The correction of the head is given by the difference between the dynamic head at the two connctions. It is therefore clear that if the two readings for a pump have been taken on pipes of the same diameter, that is the liquid is at the same velocity, the correction is zero.

For submersible pumps it is sufficient to measure the head at the delivery connection. The head is then given by adding the head, the dynamic head (at the delivery connection) and the difference in level between the free surface of the liquid and the manometer.

Developed power

Usually the developed power is given in kW or HP:

Q the flow
H the head in metres of the column of liquid (m.c.l.)
γ the specific weight of the liquid

The developed power (P3) is calculated by one of the following equations:

$$P3 = \frac{\gamma\ (kg/dm^3) \times Q\ (l/s) \times H\ (m.c.l.)}{75} \text{ in HP}$$

$$P3 = \frac{\gamma\ (kg/dm^3) \times Q\ (m^3/h) \times H\ (m.c.l.)}{270} \text{ in HP}$$

$$P3 = \frac{\gamma\ (kg/dm^3) \times Q\ (l/s) \times H\ (m.c.l.)}{102} \text{ in kW}$$

$$P3 = \frac{\gamma\ (kg/dm^3) \times Q\ (l/min) \times H\ (m.c.l.)}{4500} \text{ in HP}$$

$$P3 = \frac{\gamma\ (kg/dm^3) \times Q\ (m^3/h) \times H\ (m.c.l.)}{367} \text{ in kW}$$

$$P3 = \frac{\gamma\ (kg/dm^3) \times Q\ (l/min) \times H\ (m.c.l.)}{6120} \text{ in kW}$$

Calculating the power outputs

P_1 : the power absorbed by the motor in kW (generally shown by a wattmeter)
P_2 : the developed by the motor in kW
P_3 : the developed by the pump in kW

Power output of the motor $\eta = \frac{P_2}{P_1}$

Power output of the pump $\eta = \frac{P_3}{P_2}$

Combined power output $\eta = \frac{P_3}{P_1}$

Variation in head of a pump as the speed varies

The performance of a pump m is directly related to the speed of the pump in rpm (**n**). Providing there is no cavitation, the law of similarity may be used, which is expressed as follows.

$$Q_x = Q \times \frac{n_x}{n} \qquad H_x = H \times \left(\frac{n_x}{n}\right)^2 \qquad P_{2\text{-}x} = P_2 \times \left(\frac{n_x}{n}\right)^3$$

For example, doubling the number of revolutions (n_x) one has:
Q_x = the value of double flow
H_x = the value of four times the head
$P_{2\text{-}x}$ = the value of eight times the absorbed power

Q - H - P2 are the value at speed **n**
Q_x - H_x - $P_{2\text{-}x}$ are the value at speed n_x.

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PRATICAL NOTES ON N.P.S.H.

N.P.S.H. are the initials of the expression Net Positive Suction Head.
The meaning of this expression is the absolute pressure which must exist in the suction port of the pump, to pump the liquid without causing cavitation. This can occur when the absolute pressure falls to values likely to allow the formation of vapour bubbles within the fluid whereby the pump works irregularly with reduced head.

All this demostrates the importance of checking that the pump is not producing cavitation because in addition to creating noise like a faulty bearing, cavitation will damage the impeller in a short time.

A special formula associates the value of NPSH required by the pump with the conditions of the installation and with the type of liquid, allowing calculation of the minimum pressure required at the suction and consequently to determine the position in which to locate the pump in relation to the free surface of the liquid to be pumped.

The general formula of N.P.S.H. is:

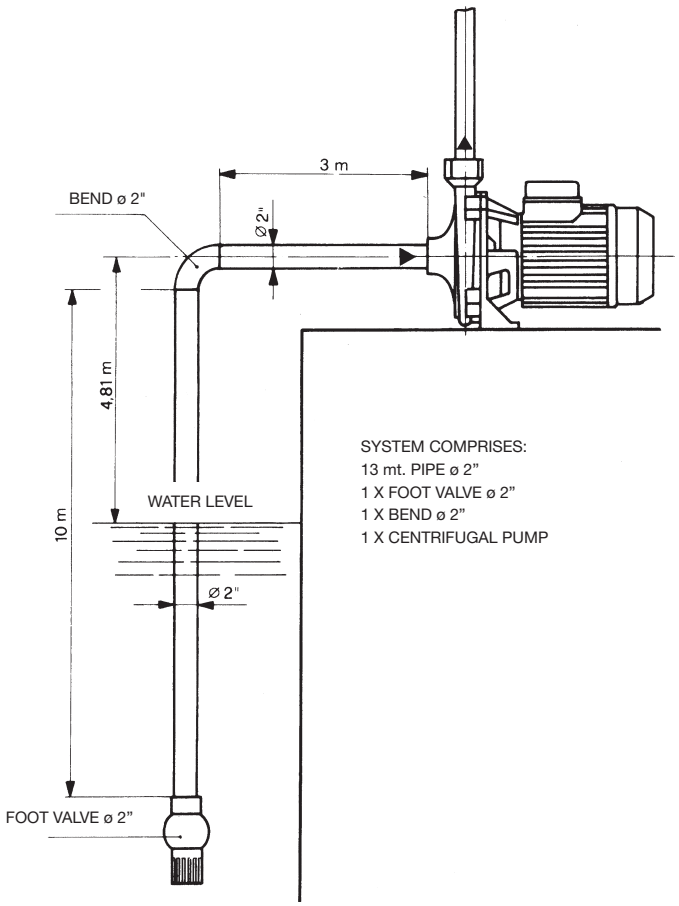
$$NPSH = Z1 + \left(\frac{p1 + pb - pv}{\gamma} \times 10 \right) - Hr$$

$$Z1 = NPSH - \left(\frac{p1 + pb - pv}{\gamma} \times 10 \right) + Hr$$

where:

Z1 = the difference in level (in m) between the axis of the pump and the free surface of the liquid to be pumped.
p1 = the possible pressure (in kg/cm^2) on the surface of the liquid in the tank from which it is to be pumped. If the suction is from an open tank and the surface of the liquid is in contact with the air, p1 = 0.
pb = atmospheric pressure (in kg/cm^2) at the site of the installation.
pv = the vapour tension (in kg/cm^2) of the liquid at pumping temperature the specific weight (in kg/dm^3) of the liquid at pumping temperature.
γ = the specific weight (in kg/dm^2) of the liquid at pumping temperature.
10 = conversion factor due to the units of measure used.
Hr = head loss (in m) in the suction pipework.

To give a practical example, the diagram below is of an installation for a centrifugal pump which is required to pump a flow Q of 235 l/min under four different conditions.



Calculation of the head loss in the suction pipe (Hr)

Flow : Q = 235 l/min = 0,00392 m^3/s
Cross sectional area of 2" pipe : S = 19,6 cm^2 = 0,00196 m^2
Velocity of water in pipe : V = Q/S $\frac{0,00392}{0,00196}$ = 2 m/s

The head losses (see tables 1 & 2):

- 2" foot valve = 0,610 m
- curves (assume. $\frac{d}{R} = 1$) = 0,058 m
- suction piping (10 m + 3 m) = 1,370 m
- total loss suction = 2,040 m

Let us now consider the four different conditions under which the pump is required to operate. We shall assume that the required NPHS for the required head is 3.25m. The atmospheric pressure pb is read from the table on page 12, the vapour tension and specific weight are read from table 3 and the loss in the suction is as calculated above.

1st case: installation at sea level and water at 20°C.

$$3,25 = Z1 + \left(\frac{1,033 - 0,0238}{0,9982} \times 10\right) - 2,04$$

$$Z1 = 3,25 - \left(\frac{1,033 - 0,0238}{0,9982} \times 10\right) + 2,04 = -4,82$$

which means that the pump, for the flow being considered, can pump water at 20° from a maximum depth of 4.82m. It must be observed that a flow of greater than 235 l/min increases the value of the NPHS of the pump and the head loss in the suction pipework. Consequently the available suction head will be less than 4.82m. The opposite happens for flows of less than 235 l/min and form this it follows that to bring the pump back to regular functioning, it is often sufficient to partially close the discharge valve there reducting the flow.

2nd case: installation at sea level and water at 60°C

$$3,25 = Z1 + \left(\frac{1,033 - 0,2031}{0,9831} \times 10\right) - 2,04$$

$$Z1 = 3,25 - \left(\frac{1,033 - 0,2031}{0,9831} \times 10\right) + 2,04 = -3,15$$

which means that the pump, for the flow being considered, can pump water at 60°C from a maximum depht of 3.15m.

3rd case: installation at sea level and water at 90°C

$$3,25 = Z1 + \left(\frac{1,033 - 0,7149}{0,9653} \times 10\right) - 2,04$$

$$Z1 = 3,25 - \left(\frac{1,033 - 0,7149}{0,9653} \times 10\right) + 2,04 = -1,99$$

which means that the free surface of the water at 90°C must be at least 1.99m above the axis of the pump.

4th case: installation at 1500mabove sea level and water at 50°C.

$$3,25 = Z1 + \left(\frac{0,860 - 0,1258}{0,9880} \times 10\right) - 2,04$$

$$Z1 = 3,25 - \left(\frac{0,860 - 0,1258}{0,9880} \times 10\right) + 2,04 = -2,14$$

which means that the pump, for the flow being considered, can pump water at 50°C from a maximum depht of 2.14m when installed at 1500m above sea level.

N.B.: it's always wise to include a safety margin (0.5m for cold water) to allow for errors and unforeseen variations in the estimated values. i.e. natural variation in atmospherical pressure. Such a margin is even more important with liquids near to boiling point as small temperature changes can produce large differences in operating conditions. For example in case 3, if the temperature of the water were to reach 95°C, the neccessary head wold increase from 1.99m to 3.51m.

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NOTES ON THE MOTORS OF ELCTRIC PUMPS

INDEX OF SYMBOLS USED		
P_1	=	power absorbed by the motor kW
P_2	=	power absorbed by the motor in kW or HP
V ~	=	AC voltage of the mains
Hz	=	frequency in cycles per second of the mains supply
I	=	current drawn by the motor in Amps
cosφ	=	power factor
$\mathbf{n}^{1/min}$	=	speed of rotation in rpm
η	=	output power (relation between developed power and absorbed power P_2/P_1)
p	=	number of poles of the motor
Cn	=	nominal torque of the motor

Speed of rotation at no load

The no-load speed of electric induction motors, single and three phase, is given by the formula:

$$\mathbf{n}^{1/min} = \frac{120 \times Hz}{p}$$

No-load speed of rotation $\mathbf{n}^{1/min}$

FREQUENCY Hz	2 POLES	4 POLES
50	3000	1500
60	3600	1800

The speed at full load is lower by 2% to 7% than at no load.

Current absorbed

single-phase : $\frac{1000 \times P_2\,(kW)}{V \times \cos\varphi \times \eta}$ I or = I $\frac{736 \times P_2\,(HP)}{V \times \cos\varphi \times \eta}$

three-phase : $\frac{1000 \times P_2\,(kW)}{1.73 \times V \times \cos\varphi \times \eta}$ I or = I $\frac{736 \times P_2\,(HP)}{1.73 \times V \times \cos\varphi \times \eta}$

Power absorber

single-phase : $P_1\,(kW) = \frac{V \times I \times \cos\varphi}{1000}$

three-phase : $P_1\,(kW) = \frac{1.73 \times V \times I \times \cos\varphi}{1000}$

Power developed at the motor axis

single-phase : $P_2\,(kW) \frac{V \times I \times \cos\varphi \times \eta}{1000}$ = or : $P_2\,(HP) = \frac{V \times I \times \cos\varphi \times \eta}{736}$

three-phase : $P_2\,(kW) \frac{1.73 \times V \times I \times \cos\varphi \times \eta}{1000}$ = or : $P_2\,(HP) = \frac{1.73 \times V \times I \times \cos\varphi \times \eta}{736}$

Output

$$\eta = \frac{P_2\,(kW)}{P_1\,(kW)}$$

Power factor

single-phase : $\cos\varphi \dfrac{P_2\,(kW) \times 1000}{V \times I \times \eta}$ = or : $\cos\varphi \dfrac{P_1\,(kW) \times 1000}{V \times I}$

three-phase : $\cos\varphi \dfrac{P_2\,(kW) \times 1000}{1.73 \times V \times I \times \eta}$ = or : $\cos\varphi \dfrac{P_1\,(kW) \times 1000}{1.73 \times V \times I}$

Torque factor

$Cn = \dfrac{P_2\,(kW) \times 1000}{1.027 \times \mathbf{n}^{1/min}}$ in Kgm

$Cn = \dfrac{P_2\,(HP) \times 736}{1.027 \times \mathbf{n}^{1/min}}$ in Kgm

$Cn = \dfrac{702 \times HP}{\mathbf{n}^{1/min}}$ in decaNewtonmetres

Relationship between kW and HP

1 HP = 0.736 kW 1 kW = 1.36 HP $\dfrac{HP}{1.36}$ = kW kW x 1,36 = HP

Starting current (Isp)

The starting current (at swich on) of a motor is greater than the full load current by between 4 to 8 times

Isp = In x 4 ÷ 8

Details on capacitors

The approximate current absorbed by a capacitor is:

$I = \dfrac{6{,}28 \times F \times C \times V}{1.000.000}$

Where:
I = current in Amps drawn by the capacitor
F = frequency in Hz of the voltage applied
C = capacity of capacitor µF
V = applied voltage

Example:
The current absorbed by a capacitor which of 14 µF connected to a supply of 220 Volt - 50 Hz, is:

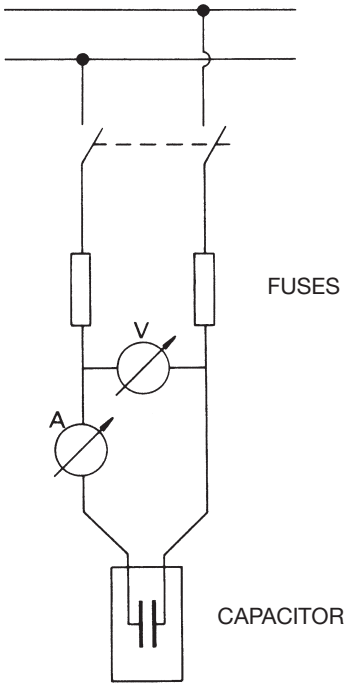
$I = \dfrac{6{,}28 \times 50 \times 14 \times 220}{1.000.000}$ = 0,96 Amperes

The approximate flow of a capacitor is determined by:

$C = \dfrac{I}{6{,}28 \times F \times V}$ x 1.000.000

Example:
The capacity of a capacitor which absorb 1,4 Amps connected to a supply of 220 Volt - 50 Hz, is:

$C = \dfrac{1{,}4}{6{,}28 \times 50 \times 220}$ x 1.000.000 = 20,2 µF



Star-delta starting

A motor which runs connected in delta ∅is started connected in star ⅄ .
The current and the starting torque are reduced to one third of the value they wold be starting in delta ∅

Protection

It's advisable to connected electric motors to the supply by a suitable contactor starter with appropriated overload.

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HEAD LOSS

in cm of column of water per metre of straight pipework

TAB. 1

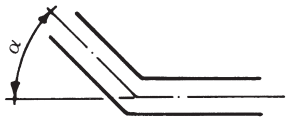
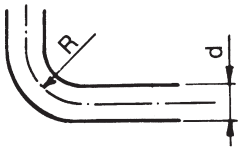
v	Q / h	DIAMETER OF PIPE IN mm.																	
		20	25	30	40	50	65	80	100	125	150	175	200	250	300	350	400	450	500
0,5	Q	9,4	14,7	21,2	37,7	59,0	115	151	235	369	530	723	940	1480	2120	2880	3770	4780	5890
	h	**2,4**	**1,9**	**1,5**	**1,0**	**0,8**	**0,56**	**0,46**	**0,36**	**0,28**	**0,23**	**0,19**	**0,16**	**0,13**	**0,105**	**0,089**	**0,076**	**0,067**	**0,06**
0,6	Q	11,3	17,7	25,4	45,3	70,7	138	181	282	442	636	887	1130	1770	2540	3460	4520	5730	7060
	h	**3,3**	**2,6**	**2,1**	**1,5**	**1,12**	**0,78**	**0,65**	**0,5**	**0,39**	**0,32**	**0,27**	**0,23**	**0,18**	**0,15**	**0,12**	**0,11**	**0,096**	**0,086**
0,7	Q	13,2	20,6	29,7	52,9	82,5	161	211	329	516	742	1010	1315	2070	2960	4040	5270	6690	8250
	h	**4,4**	**3,4**	**2,7**	**1,9**	**1,5**	**1,0**	**0,86**	**0,67**	**0,52**	**0,43**	**0,36**	**0,31**	**0,24**	**0,2**	**0,17**	**0,15**	**0,13**	**0,12**
0,8	Q	15,05	23,6	33,9	60,4	94,5	184	241	377	590	848	1155	1505	2360	3390	4620	6030	7650	9420
	h	**5,6**	**4,3**	**3,4**	**2,5**	**1,9**	**1,3**	**1,1**	**0,86**	**0,67**	**0,55**	**0,46**	**0,4**	**0,31**	**0,26**	**0,22**	**0,19**	**0,17**	**0,15**
0,9	Q	16,95	26,5	38,2	68,0	106,0	207	272	423	664	955	1300	1695	2660	3810	5200	6780	8600	10600
	h	**6,9**	**5,3**	**4,3**	**3,0**	**2,4**	**1,7**	**1,4**	**1,1**	**0,84**	**0,69**	**0,58**	**0,5**	**0,39**	**0,32**	**0,27**	**0,24**	**0,21**	**0,19**
1,0	Q	18,8	29,5	42,4	75,5	117,7	230	302	471	737	1060	1445	1880	2950	4230	5770	7530	9550	11770
	h	**8,3**	**6,4**	**5,1**	**3,7**	**2,9**	**2,1**	**1,7**	**1,3**	**1,0**	**0,84**	**0,71**	**0,61**	**0,48**	**0,4**	**0,34**	**0,29**	**0,26**	**0,23**
1,1	Q	20,7	32,4	46,6	83,0	129,5	252	332	518	81	1165	1585	2070	3250	4650	6350	8290	10500	12950
	h	**9,9**	**7,6**	**6,2**	**4,4**	**3,4**	**2,4**	**2,0**	**1,6**	**1,2**	**1,0**	**0,85**	**0,74**	**0,58**	**0,48**	**0,4**	**0,35**	**0,31**	**0,28**
1,2	Q	22,6	35,4	50,9	90,6	141,0	276	362	565	885	1272	1730	2260	3550	5080	6930	9040	11450	14140
	h	**11,7**	**9,0**	**7,2**	**5,2**	**4,0**	**2,9**	**2,4**	**1,9**	**1,5**	**1,2**	**1,0**	**0,87**	**0,69**	**0,56**	**0,48**	**0,42**	**0,37**	**0,32**
1,3	Q	24,5	38,3	55,0	98,0	153,0	299	392	612	960	1378	1875	2450	3840	5500	7500	9800	12400	15320
	h	**13,5**	**10,4**	**8,4**	**6,0**	**4,7**	**3,3**	**2,8**	**2,2**	**1,71**	**1,4**	**1,15**	**1,0**	**0,8**	**0,66**	**0,56**	**0,49**	**0,43**	**0,38**
1,4	Q	26,35	41,3	59,3	105,5	165,0	302	422	660	1032	1473	2020	2635	4140	5920	8090	10530	13370	16500
	h	**15,4**	**11,9**	**9,6**	**6,9**	**5,4**	**3,8**	**3,2**	**2,5**	**2,0**	**1,6**	**1,3**	**1,17**	**0,92**	**0,76**	**0,64**	**0,56**	**0,5**	**0,44**
1,5	Q	28,25	44,2	63,6	113,0	176,5	345	452	707	1106	1590	2165	2825	4430	6350	8660	11300	14320	17680
	h	**17,4**	**13,5**	**10,9**	**7,8**	**6,1**	**4,4**	**3,6**	**2,8**	**2,25**	**1,82**	**1,5**	**1,34**	**1,05**	**0,87**	**0,74**	**0,64**	**0,57**	**0,51**
1,6	Q	30,1	47,1	67,8	121,0	188,5	368	483	753	1180	1695	2310	3010	4730	6770	9240	12055	5015270	18850
	h	**19,6**	**15,3**	**12,4**	**8,9**	**6,9**	**4,9**	**4,1**	**3,2**	**2,55**	**2,05**	**1,7**	**1,53**	**1,18**	**0,99**	**0,84**	**0,72**	**0,64**	**0,58**
1,7	Q	32,0	50,1	72,0	128,0	200,0	392	513	800	1253	1802	2455	3200	5020	7190	9820	12800	16230	20030
	h	**21,9**	**17,2**	**13,9**	**10,0**	**7,8**	**5,4**	**4,6**	**3,6**	**2,85**	**2,3**	**1,95**	**1,7**	**1,33**	**1,11**	**0,94**	**0,81**	**0,73**	**0,65**
1,8	Q	33,9	53,0	76,3	136,0	212,0	415	543	848	1327	1905	2600	3390	5320	7610	10380	13550	17200	21200
	h	**24,2**	**19,1**	**15,4**	**11,1**	**8,7**	**6,0**	**5,1**	**4,0**	**3,15**	**2,6**	**2,2**	**1,9**	**1,48**	**1,24**	**1,05**	**0,91**	**0,81**	**0,73**
1,9	Q	35,8	56,0	80,5	143,5	224,0	438	573	895	1400	2015	2740	3580	5610	8040	10960	14300	18150	22400
	h	**26,8**	**21,0**	**17,0**	**12,3**	**9,6**	**6,8**	**5,6**	**4,4**	**3,45**	**2,85**	**2,45**	**2,1**	**1,64**	**1,38**	**1,17**	**1,01**	**0,9**	**0,81**
2,0	Q	37,7	59,0	84,8	151,0	235,5	461	603	943	1475	2120	2885	3765	5910	8460	11540	15060	19100	23570
	h	**29,6**	**23,0**	**18,6**	**13,4**	**10,5**	**7,5**	**6,2**	**4,9**	**3,8**	**3,17**	**2,7**	**2,33**	**1**	**1,52**	**1,3**	**1,12**	**0,99**	**0,89**
2,1	Q	39,5	62,0	89,0	158,5	247,5	484	633	990	1548	225	3030	3955	6200	8890	12100	15810	20050	24750
	h	**32,2**	**25,1**	**20,4**	**14,8**	**11,5**	**8,2**	**6,8**	**5,4**	**4,2**	**3,5**	**2,95**	**2,55**	**2,0**	**1,68**	**1,43**	**1,22**	**1,08**	**0,98**
2,2	Q	41,5	64,9	93,2	176,0	259,0	507	663	1036	1620	2330	3175	4145	6500	9300	12700	16570	21000	25930
	h	**35,0**	**27,3**	**22,3**	**16,2**	**12,5**	**9,1**	**7,4**	**5,9**	**4,6**	**3,85**	**3,25**	**2,8**	**22**	**1,85**	**1,56**	**1,34**	**1,18**	**1,08**
2,3	Q	43,3	67,9	97,5	173,5	271,0	530	694	1082	1695	2440	3320	4330	6800	9730	13270	17310	21950	27100
	h	**38,0**	**29,7**	**24,2**	**17,7**	**13,6**	**9,8**	**8,1**	**6,4**	**5,0**	**4,15**	**3,5**	**3,05**	**2,4**	**2,03**	**1,7**	**1,46**	**1,28**	**1,18**
2,4	Q	45,2	70,8	101,5	181,0	282,5	553	724	1130	1770	2545	3460	4520	7090	10140	13850	18090	22900	28300
	h	**42,1**	**32,1**	**26,2**	**19,1**	**14,7**	**10,6**	**8,8**	**6,9**	**5,45**	**455**	**3,8**	**3,3**	**2,62**	**2,21**	**1,85**	**1,58**	**1,38**	**1,28**
2,5	Q	47,1	73,7	105,8	189,0	294,5	576	755	1178	1843	2650	3610	4710	7390	10570	14420	18820	23880	29450
	h	**45,0**	**34,7**	**28,3**	**20,5**	**16,0**	**11,4**	**9,6**	**7,5**	**5,9**	**4,9**	**4,1**	**3,58**	**2,84**	**2,4**	**2,0**	**1,7**	**1,5**	**1,4**
2,6	Q	49,0	76,6	110,0	196,0	306,0	599	785	1225	1915	2755	3755	4900	7680	11000	15000	19590	24820	30630
	h	**48,3**	**37,3**	**30,4**	**22,2**	**17,2**	**12,3**	**10,4**	**8,1**	**6,35**	**5,25**	**4,4**	**3,85**	**3,07**	**2,59**	**2,17**	**1,84**	**1,62**	**1,51**
2,7	Q	50,9	79,6	114,3	204,0	318,0	622	815	1271	1990	2860	3900	5090	7980	111410	15590	20340	25800	31820
	h	**51,7**	**40,0**	**32,5**	**23,8**	**18,5**	**13,2**	**11,2**	**8,7**	**6,85**	**5,65**	**4,75**	**4,15**	**3,3**	**2,78**	**2,34**	**1,98**	**1,74**	**1,62**
2,8	Q	52,7	82,6	118,5	211,5	330,0	645	845	1320	2060	2970	4040	5280	8270	11830	16160	21090	26730	33000
	h	**55,2**	**42,5**	**34,8**	**25,5**	**19,9**	**14,0**	**12,0**	**9,3**	**7,35**	**6,05**	**5,10**	**4,45**	**3,56**	**2,98**	**2,51**	**2,13**	**1,88**	**1,74**
2,9	Q	54,6	85,5	123,0	219,0	342,0	668	875	1365	2140	3075	4190	5460	8560	12250	16730	21480	27700	34200
	h	**58,7**	**45,1**	**37,1**	**27,1**	**21,3**	**15,2**	**12,8**	**10,0**	**7,85**	**6,45**	**5,5**	**4,75**	**3,82**	**3,18**	**2,7**	**2,3**	**2,03**	**1,87**
3,0	Q	56,5	88,5	127,0	226,5	354,0	691	905	1414	2210	3180	4330	5650	8850	12690	17310	22600	28650	35350
	h	**62,9**	**47,9**	**39,6**	**28,8**	**22,6**	**16,3**	**13,6**	**10,7**	**8,4**	**6,9**	**5,9**	**5,1**	**4,1**	**3,4**	**2,9**	**2,5**	**2,2**	**2,0**

see note opposite

HEAD LOSS

in cm column of water in bends, gate valves and foot valves

TAB. 2

Velocity of water in m/s	SHARP EDGED BENDS					NORMAL BENDS					Gate Valve	Foot Valve	Non-return Valve	Head loss on exit from pipes $V^2:2g$
														
	$\alpha = 30°$	$\alpha = 40°$	$\alpha = 60°$	$\alpha = 80°$	$\alpha = 90°$	$\frac{d}{R} = 0,4$	$\frac{d}{R} = 0,6$	$\frac{d}{R} = 0,8$	$\frac{d}{R} = 1$	$\frac{d}{R} = 1,5$				
0,10	0,03	0,04	0,05	0,07	008	0,07	0,08	0,01	0,0155	0,027	0,03	30	30	0,05
0,15	0,06	0,73	0,1	0,14	0,17	0,016	0,019	0,024	0,033	0,06	0,033	31	31	0,12
0,2	0,11	0,13	0,18	0,26	0,31	0,028	0,033	0,04	0,059	0,11	0,058	31	31	0,21
0,25	0,17	0,21	0,28	0,4	0,48	0,044	0,052	0,063	0,091	0,17	0,09	31	31	0,32
0,3	0,25	0,3	0,41	0,6	0,7	0,063	0,074	0,09	0,13	0,25	0,13	31	31	0,46
0,35	0,33	0,4	0,54	0,8	0,93	0,085	0,10	0,12	0,18	0,33	0,18	31	31	0,62
0,14	0,43	0,52	0,71	1,0	1,2	0,11	0,13	0,16	0,23	0,43	0,23	32	31	0,82
0,5	0,67	0,81	1,1	1,6	1,9	0,18	0,21	0,26	0,37	0,67	0,37	33	32	1,27
0,6	0,97	1,2	1,6	2,3	2,8	0,25	0,29	0,36	0,52	0,97	0,52	34	32	1,84
0,7	1,35	1,65	2,2	3,2	3,9	0,34	0,40	0,48	0,70	1,35	0,7	35	32	2,5
0,8	1,7	2,1	2,8	4,0	4,8	0,45	0,53	0,64	0,93	1,7	0,95	36	33	3,3
0,9	2,2	2,7	6	5,2	6,2	0,57	0,67	0,82	1,18	2,2	1,2	37	34	4,2
1,0	2,7	3,3	4,5	6,4	7,6	0,7	0,82	1,0	1,45	2,7	1,45	38	35	5,1
1,5	6,0	7,3	10,0	14,0	17,0	1,6	1,9	2,3	3,3	6,0	3,3	47	40	11,5
2,0	11,0	14,0	18,0	26,0	31,0	2,8	3,3	4,0	5,8	11,0	5,8	61	48	20,4
2,5	17,0	21,0	28,0	40,0	48,0	4,4	5,2	6,3	9,1	17,0	9,1	78	58	32,0
3,0	25,0	30,0	41,0	60,0	70,0	6,3	7,4	9,0	13,0	25,0	13,0	100	71	46,0
3,5	33,0	40,0	55,0	78,0	93,0	8,5	10,0	12,0	18,0	33,0	18,0	123	85	62,0
4,0	43,0	52,0	70,0	100,0	120,0	11,0	13,0	16,0	23,0	42,0	23,0	150	100	82,0
4,5	55,0	67,0	90,0	130,0	160,0	14,0	21,0	26,0	37,0	55,0	37,0	190	120	103,0
5,0	67,0	82,0	110,0	160,0	190,0	18,0	29,0	36,0	52,0	67,0	52,0	220	140	127,0

NOTES

Q = flow in l/min
v = velocity of water in m/s
d = diameter of pipes in m
h = head loss in cm water for each meter of pipe column calculated according to the Lang formula where :

$$h = \lambda \times \frac{100}{d} \times \frac{v^2}{2g} \qquad \lambda = 0,02 + \frac{0,0018}{\sqrt{v \times d}}$$

The head loss in curves is only that due to the contraction of the stream of liquid in chaning direction. The development of the curves must therefore be included in the length of the pipework. The head loos for valves has been determined on the basis of technical experimentation.
The head losses for gate valves and normal bends is equivalent to that of 5m of straight pipe, whilst that of non-return valves is equivalent to 15 m.
The valves given are for pipes with a smooth bore. In the case of rought or scaled pipes it will be necessary to make the relevent allowances.

PRESSURE DROPS MUST BE MULTIPLIED: BY 0.8 (STAINLESS STEEL PIPES); BY 1.25 (SLIGHTLY RUSTY STEEL PIPES); BY 1.7 (ENCRUSTED PIPES WITH REDUCED INTERNAL DIAMETERS); BY 0.7 (ALUMINIUM PIPES); BY 0.7 (PVC AND PE PIPES); BY 1.3 (FIBRE-CEMENT PIPES).

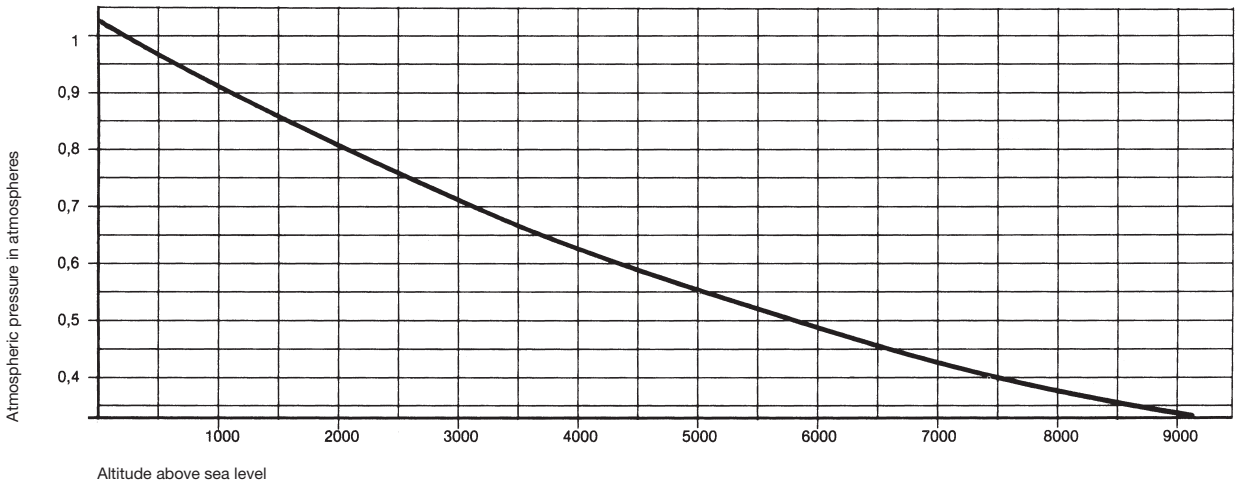
DAB PUMPS reserve the right to make modifications without prior notice

Vapour tension and specific weight of water as a function of temperature

TAB. 3

t °C	*pv* kg/cm²	γ kg/dm³	*t* °C	*pv* kg/cm²	γ kg/dm³	*t* °C	*pv* kg/cm²	γ kg/dm³	*t* °C	*pv* kg/cm²	γ kg/dm³
0	0,0062	0,9998	41	0,793	0,9917	82	0,5234	0,9705	170	8,076	0,8973
1	0,0067	0,9999	42	0,836	0,9913	83	0,5447	0,9698	175	9,101	0,8920
2	0,0072	0,9999	43	0,0881	0,9909	84	0,5667	0,9693	180	10,225	0,8869
3	0,0077	1,0000	44	0,0928	0,9905	85	0,5897	0,9687	185	11,456	0,8814
4	0,0083	1,0000	45	0,0977	0,9900	86	0,6129	0,9680	190	12,800	0,8760
5	0,0089	1,0000	46	0,1028	0,9898	87	0,6372	0,9673	195	14,265	0,8703
6	0,0095	0,9999	47	0,1082	0,9883	88	0,6623	0,9667	200	15,857	0,8646
7	0,0102	0,9999	48	0,1138	0,9889	89	0,6882	0,9659	205	17,858	0,8587
8	0,0109	0,9998	49	0,1197	0,9885	90	0,7149	0,9653	210	19,456	0,8528
9	0,0117	0,9997	50	0,1258	0,9880	91	0,7425	0,9646	215	21,477	0,8465
10	0,0125	0,9996	51	0,1322	0,9876	92	0,7710	0,9640	220	23,659	0,8403
11	0,0134	0,9995	52	0,1388	0,9871	93	0,8004	0,9632	225	26,007	0,8339
12	0,0143	0,9994	53	0,1457	0,9866	94	0,8307	0,9625	230	28,531	0,8272
13	0,0153	0,9993	54	0,1530	0,9861	95	0,8619	0,9619	235	31,239	0,8206
14	0,0163	0,9992	55	0,1605	0,9857	96	0,8942	0,9611	240	34,140	0,8136
15	0,0174	0,9990	56	0,1683	0,9852	97	0,9271	0,9604	245	37,244	0,8064
16	0,0185	0,9989	57	0,1765	0,9847	98	0,9616	0,9596	250	40,560	0,7992
17	0,0197	0,9987	58	0,1850	0,9842	99	0,9969	0,9590	255	44,100	0,7918
18	0,0210	0,9985	59	0,1939	0,9836	100	1,0032	0,9583	260	47,870	0,7840
19	0,0224	0,9984	60	0,2031	0,9831	102	1,1092	0,9568	265	51,880	0,7759
20	0,0238	0,9982	61	0,2127	0,9826	104	1,1898	0,9554	270	56,140	0,7678
21	0,0253	0,9979	62	0,2227	0,9821	106	1,2751	0,9540	275	60,660	0,7593
22	0,0269	0,9977	63	0,2330	0,9816	108	1,6354	0,9525	280	65,460	0,7506
23	0,0286	0,9974	64	0,2438	0,9810	110	1,4609	0,9510	285	70,540	0,7416
24	0,0304	0,9972	65	0,2550	0,9804	112	1,5618	0,9495	290	75,920	0,7323
25	0,0323	0,9970	66	0,2666	0,9800	114	1,6684	0,9479	286	81,600	0,7227
26	0,0343	0,9966	67	0,2787	0,9794	116	1,7809	0,9464	300	87,610	0,7214
27	0,0363	0,9964	68	0,2912	0,9788	118	1,8995	0,9448	305	93,950	0,7017
28	0,0385	0,9961	69	0,3042	0,9782	120	2,0245	0,9431	310	100,640	0,6906
29	0,0408	0,9957	70	0,3177	0,9777	122	2,1561	0,9414	315	107,690	0,6793
30	0,0432	0,9955	71	0,3317	0,9771	124	2,2947	0,9398	320	115,130	0,6671
31	0,0458	0,9952	72	0,3463	0,9765	126	2,4404	0,9381	325	122,950	0,6540
32	0,0485	0,9949	73	0,3613	0,9759	128	2,5935	0,9365	330	131,180	0,6402
33	0,0513	0,9946	74	0,3869	0,9754	130	2,7544	0,9348	335	139,850	0,6257
34	0,0542	0,9942	75	0,3931	0,9748	135	3,1920	0,9305	340	148,960	0,6093
35	0,0573	0,9939	76	0,4098	0,9742	140	3,6850	0,9260	345	157,540	0,5910
36	0,0606	0,9934	77	0,4274	0,9737	145	4,2370	0,9216	350	168,630	0,5724
37	0,0640	0,9932	78	0,4451	0,9730	150	4,8540	0,9169	355	179,240	0,5512
38	0,0675	0,9928	79	0,4637	0,9724	155	5,5400	0,9121	360	190,420	0,5243
39	0,0713	0,9925	80	0,4829	0,9718	160	6,3020	0,9073	365	202,210	0,4926
40	0,0752	0,9921	81	0,5028	0,9712	165	7,1460	0,9023	370	214,680	0,4484

Atmospheric pressure at varying heights



Flow of water from nozzles and fire hoses, in l/h, as a function of the pressure measured upstream from the nozzle in metres of column of water

Ø nozzle in mm	PRESSURE in m.c.w.												
	4	6	8	10	12	14	16	18	20	22	24	26	28
1	0,0068	0,0083	0,0096	0,0107	0,0118	0,0127	0,0136	0,0144	0,0152	0,0159	0,0167	0,0174	0,018
2	0,273	0,0334	0,0386	0,0432	0,0473	0,0511	0,0546	0,0579	0,0611	0,064	0,0668	0,696	0,0722
3	0,614	0,0751	0,0868	0,097	0,1063	0,1148	0,1228	0,13	0,137	0,144	0,15	0,156	0,162
4	0,109	0,133	0,154	0,175	0,189	0,204	0,218	0,231	0,244	0,255	0,267	0,278	0,288
5	1,171	0,209	0,242	0,271	0,296	0,32	0,342	0,363	0,383	0,401	0,419	0,4336	0,453
6	0,246	0,301	0,348	0,389	0,426	0,455	0,492	0,522	0,55	0,577	0,603	0,627	0,652
7	0,334	0,408	0,472	0,527	0,578	0,625	0,667	0,708	0,747	0,783	0,817	0,851	0,883
8	0,436	0,534	0,616	0,689	0,755	0,815	0,871	0,925	0,975	1,022	1,067	1,11	1,152
9	0,553	0,677	0,782	0,875	0,958	1,035	1,107	1,172	1,236	1,297	1,355	1,41	1,461
10	0,684	0,836	0,966	1,08	1,183	1,27	1,368	1,448	1,523	1,6	1,672	1,742	1,808
11	0,83	1,017	1,173	1,313	1,439	1,555	1,66	1,76	1,855	1,99	2,03	2,117	2,196
12	0,982	1,2	1,387	1,55	1,7	1,87	1,964	2,08	2,19	2,3	2,4	2,5	2,59
13	1,154	1,412	1,63	1,825	2,0	2,16	2,31	2,45	2,58	2,7	2,83	2,94	3,05
14	1,337	1,635	1,89	2,113	2,313	2,5	2,67	2,834	2,99	3,135	3,27	3,41	2,538
15	1,535	1,88	2,17	2,417	2,66	2,87	3,07	3,25	3,43	3,6	3,76	3,91	4,06
16	1,742	2,132	2,464	2,757	3,02	3,26	3,486	3,7	3,9	4,08	4,27	4,45	4,62
17	1,97	2,413	2,787	3,119	3,417	3,686	3,947	4,18	4,41	4,62	4,83	58,025	5,21
18	2,21	2,703	3,125	3,499	3,83	4,13	4,42	4,68	4,94	5,18	5,42	5,64	5,85
20	2,73	3,34	3,86	4,32	4,73	5,11	5,46	5,78	6,11	6,4	6,78	6,96	7,23
22	3,298	4,04	4,66	5,22	5,72	6,17	6,75	7,0	7,48	7,74	8,07	8,4	8,8
25	4,265	5,22	6,02	6,74	7,38	7,87	8,52	9,04	9,53	9,99	10,42	10,85	11,25
26	4,6	5,64	6,5	7,27	7,97	8,61	9,2	9,76	10,28	10,69	11,27	11,71	12,16
28	5,36	6,56	7,56	8,46	9,28	10,2	10,7	11,36	11,9	12,55	13,12	13,64	14,09
32	6,97	8,55	9,85	11,02	12,08	13,05	13,93	14,8	15,6	16,7	17,2	17,79	18,44
35	8,358	10,23	11,8	13,2	14,45	15,6	16,7	17,7	18,68	19,59	20,43	21,26	22,09
45	13,8	16,9	19,5	21,82	23,9	25,84	27,6	29,3	30,9	32,39	33,8	35,2	26,5
55	20,3	25,2	28,5	32,6	35,7	38,6	41,2	44,0	46,1	48,3	50,5	52,6	54,5
65	28,5	34,8	40,2	45,0	49,3	53,4	56,9	60,5	63,6	66,6	69,7	72,6	75,4
75	38,3	46,9	54,2	60,6	66,4	71,7	76,6	81,4	85,6	90,0	93,9	97,7	101,4
85	49,4	60,5	69,7	77,0	85,5	92,4	98,7	104,7	110,3	115,7	121,0	125,0	130,5
95	61,5	75,4	87,0	97,4	106,5	115,2	123,0	130,5	137,6	143,3	150,8	1570,0	162,8

Ø nozzle in mm	PRESSURE in m.c.w.												
	30	35	40	45	50	55	60	65	70	75	80	90	100
1	0,0186	0,0201	0,0216	0,0229	0,0241	0,0252	0,02647	0,0275	0,0285	0,0295	0,0305	0,0324	0,0341
2	0,0748	0,0807	0,0863	0,0916	0,0966	0,1012	0,1058	0,11	0,1142	0,1182	0,122	0,129	0,13695
3	0,168	0,1815	0,194	0,205	0,217	0,227	0,238	0,247	0,256	0,265	0,274	0,291	0,307
4	0,298	0,323	0,344	0,366	0,385	0,404	0,422	0,439	0,456	0,472	0,487	0,516	0,545
5	0,468	0,506	0,542	0,564	0,605	0,635	0,663	0,69	0,716	0,741	0,765	0,812	0,856
6	0,674	0,738	0,778	0,825	0,87	0,913	0,953	0,992	1,03	1,065	1,1	1,168	1,23
7	0,915	0,987	1,055	1,12	1,18	1,238	1,292	1,345	1,394	1,445	1,491	1,584	1,67
8	1,192	1,209	1,375	1,46	1,54	1,615	1,688	1,755	1,822	1,886	1,948	2,063	2,18
9	1,515	1,635	1,749	1,855	1,955	2,05	2,14	2,23	2,32	2,393	2,47	2,62	2,764
10	1,87	2,02	2,16	2,29	2,41	2,53	2,68	2,75	2,86	2,96	3,03	3,24	3,41
11	2,274	2,454	2,624	2,78	2,93	3,08	3,22	3,35	3,47	3,59	3,71	3,94	4,15
12	2,688	2,9	3,1	3,29	3,47	3,64	3,8	3,95	4,1	4,25	4,38	4,65	4,91
13	3,16	3,41	3,65	3,87	4,08	4,28	4,47	4,65	4,83	5,0	5,16	5,47	5,77
14	3,66	3,95	4,23	4,5	4,73	4,96	5,18	5,38	5,59	5,78	5,97	6,34	6,68
15	4,2	4,54	4,75	5,15	5,43	5,69	5,94	6,18	6,43	6,65	6,86	7,28	7,66
16	4,77	5,15	5,52	5,84	6,16	6,46	6,75	7,03	7,3	7,56	7,8	8,26	8,72
17	5,39	5,82	6,22	6,61	6,96	7,3	7,63	7,95	8,24	8,54	8,8	9,35	9,85
18	6,05	6,54	6,99	7,42	7,82	8,2	8,56	8,9	9,24	9,56	9,88	10,48	11,05
20	7,47	8,075	8,63	9,15	9,65	10,12	10,57	11,0	11,4	11,8	12,2	12,94	13,65
22	9,15	9,73	10,3	11,15	11,65	12,2	12,76	13,29	13,79	14,27	14,75	15,62	16,49
25	11,65	12,6	13,45	14,28	15,05	15,78	16,5	17,15	17,8	18,43	19,08	20,2	21,3
26	12,6	13,6	14,55	15,42	16,28	17,05	17,8	18,55	19,24	19,9	20,59	21,8	23,0
28	14,65	15,72	16,93	17,95	18,912	19,85	20,7	21,5	22,4	23,2	23,8	25,4	26,6
32	19,1	20,6	22,04	23,4	24,6	25,09	27,0	28,1	29,2	30,2	31,2	33,1	34,9
35	22,8	24,7	26,4	28,4	29,5	30,9	32,39	33,6	34,9	36,1	37,3	39,6	41,7
45	37,8	40,7	43,6	46,3	48,8	51,2	53,5	55,6	57,87	59,2	61,7	65,6	69,04
55	56,4	60,9	65,2	69,2	72,8	76,4	79,8	83,0	86,2	89,3	92,2	97,8	103,0
65	78,0	84,3	90,0	95,5	100,7	105,6	110,5	114,7	1198,0	123,3	127,4	135,0	142,4
75	105,0	113,3	121,2	128,5	135,6	142,0	148,5	154,5	162,0	166,0	171,2	181,8	191,8
85	135,0	146,0	156,0	165,5	174,5	183,0	191,0	199,0	206,3	213,5	220,5	234,0	246,7
95	168,5	182,0	194,5	206,0	217,6	228,0	238,0	248,0	257,5	266,0	275,0	292,0	307,7

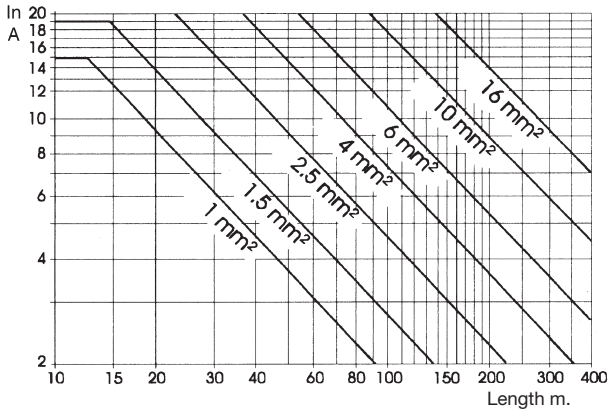
DAB PUMPS reserve the right to make modifications without prior notice

Table of equivalent standards for materials

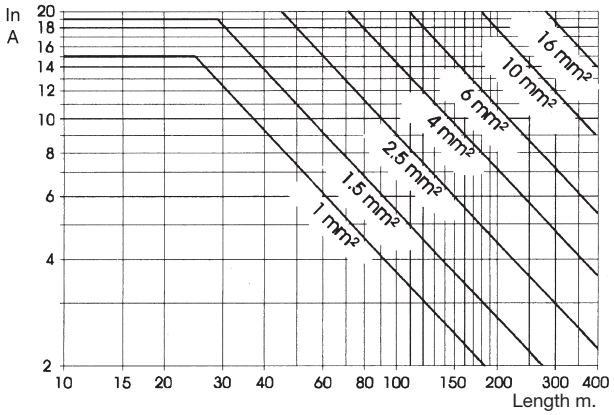
MATERIAL	UNI		DIN		ISO	AISI	ASTM
STEEL	X 30Cr13	UNI 6900/71	X 30Cr13	DIN 17440	–	AISI 420B	–
	X 12CrS13	UNI 6900/71	X 12CrS13	DIN 17440	–	AISI 416	–
	X 20Cr13	UNI 6900/71	X 20Cr13	DIN 17440	–	AISI 420A	S 42000 A 276
	X 10CrNiS1809	UNI 6900/71	X 10CrNiS1809	DIN 17440	XIII-17 ISO 683/XIII	AISI 303	S 30300 A 276
	X 5CrNi 1810	UNI 6900/71	X 5CrNi 1810	DIN 17440	XIII-11 ISO 683/XIII	AISI 304	S 30400 A 276
	X 10CrS17	UNI 6900/71	X 10CrS17	DIN 17440	XIII-84 ISO 683/XIII	AISI 430F	–
CAST IRON	G 20	UNI ISO 185	GG 20	DIN 1691	Grade 20 ISO R 185	–	Class 25 A 48
	G 25	UNI ISO 185	GG 25	DIN 1691	Grade 20 ISO R 185	–	Class 35 A 48
BRASS	G CuZn38Al 1Fe 1Mni	UNI 6138/68	–		–	–	B 30 C 86550
	P CuZn40 Pb2	UNI 5705	P CuZn40 Pb2	DIN 17660	–	–	C 37740
BRONZE	G CuSn12	UNI 7013/72	G CuSn12	DIN 17006	CuSn 12 ISO 1338	–	B 205 C 90700

Cable selection charts

Voltage 1 x 230 V ~ direct start
Volt drop 3%
Ambient temperature 30°C

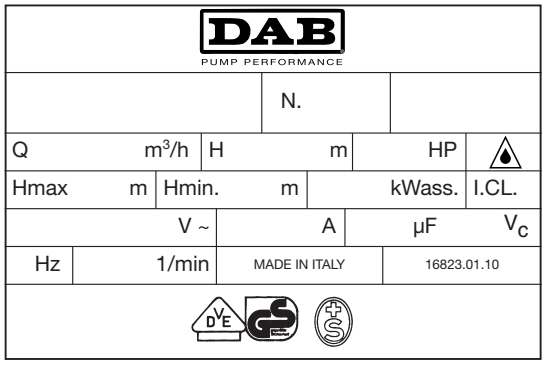


Voltage 3 x 400 V ~ direct start
Volt drop 3%
Ambient temperature 30°C



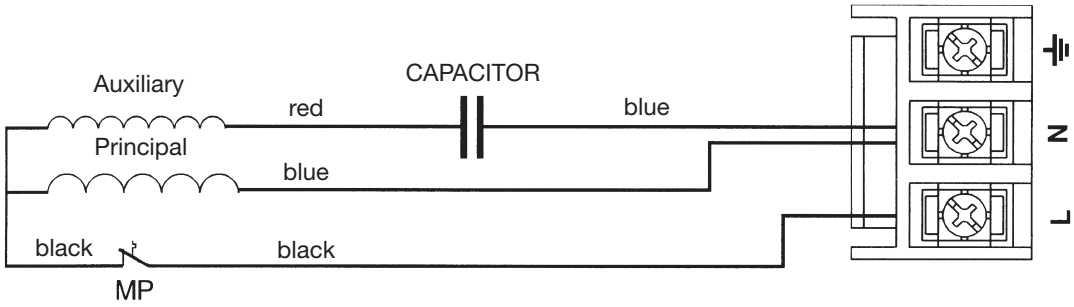
Explanation of pump data plates

N°	SERIAL NUMBER	–
Q	FLOW	m^3/h
H	HEAD	m
H max	MAXIMUM HEAD	m
H min	MINIMUM HEAD	m
–	REVOLUTIONS PER MINUTE	1/min
–	ABSORBED POWER	kWass
–	DEVELOPED POWER	HP
–	VOLTAGE	V ~
–	FREQUENCY	Hz
–	CURRENT	A
	DEGREE OF PROTECTION (IEC)	–
I.CL.	INSULATION CLASS	–
–	CAPACITY AND VOLTAGE OF CAPACITOR	µF V_c
	MAXIMUM IMMERSION	m
	WATERTIGHT WHEN SUBMERGED (IEC)	–

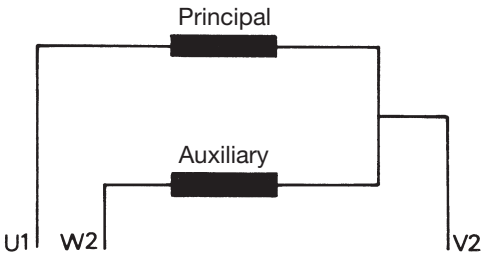


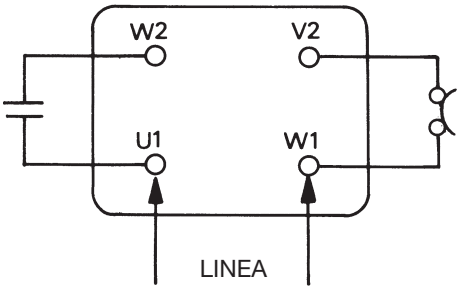
Wiring diagrams for electric motors

SINGLE-PHASE



Overload protection inside the winding - MEC 63-71 M

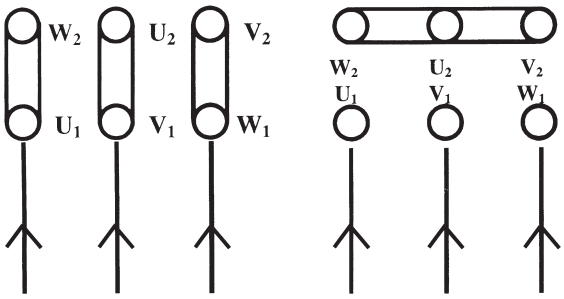




Overload protection inside the terminal board - MEC 80 M

THREE-PHASE

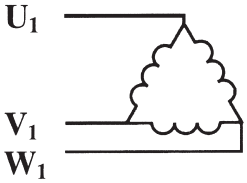
3 ~ 230/400 V



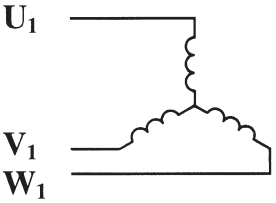
Mains supply
230 V

400 V

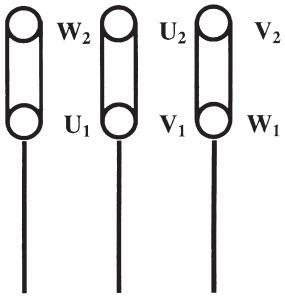
DELTA connection



STAR connection

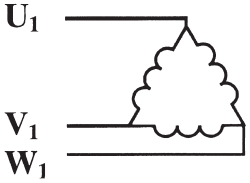


3 ~ 400 Δ V



Mains supply

DELTA connection



All motors rotate clockwise when viewed from the fan end.

DAB PUMPS reserve the right to make modifications without prior notice

NOTES

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