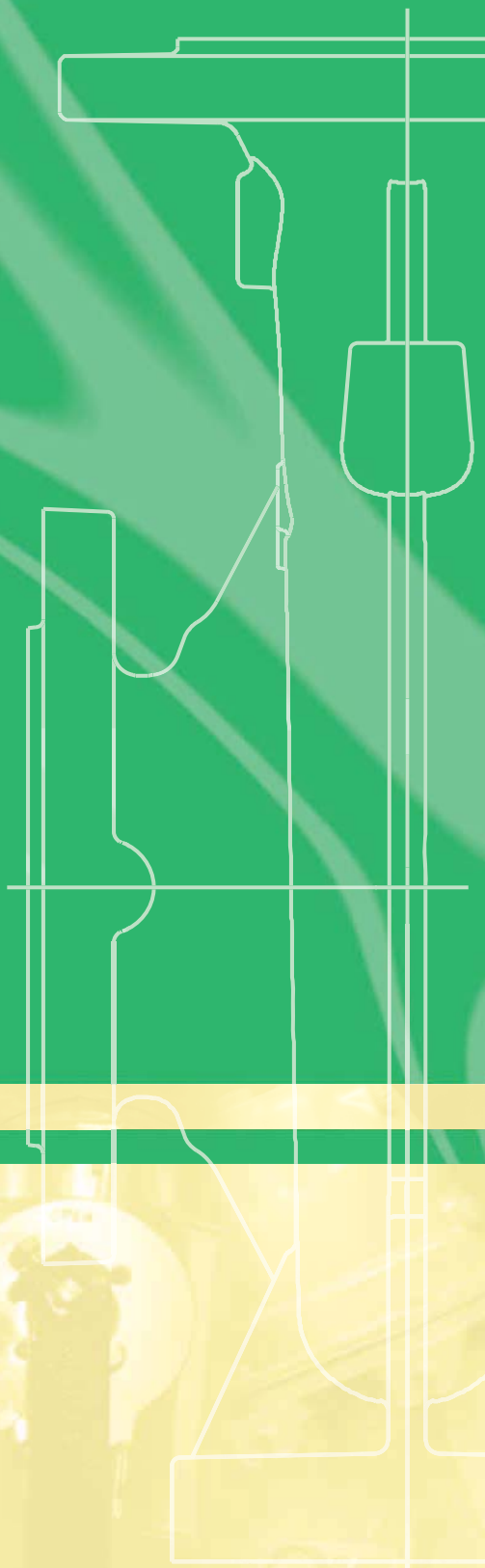
CENTRIFUGAL PUMPS



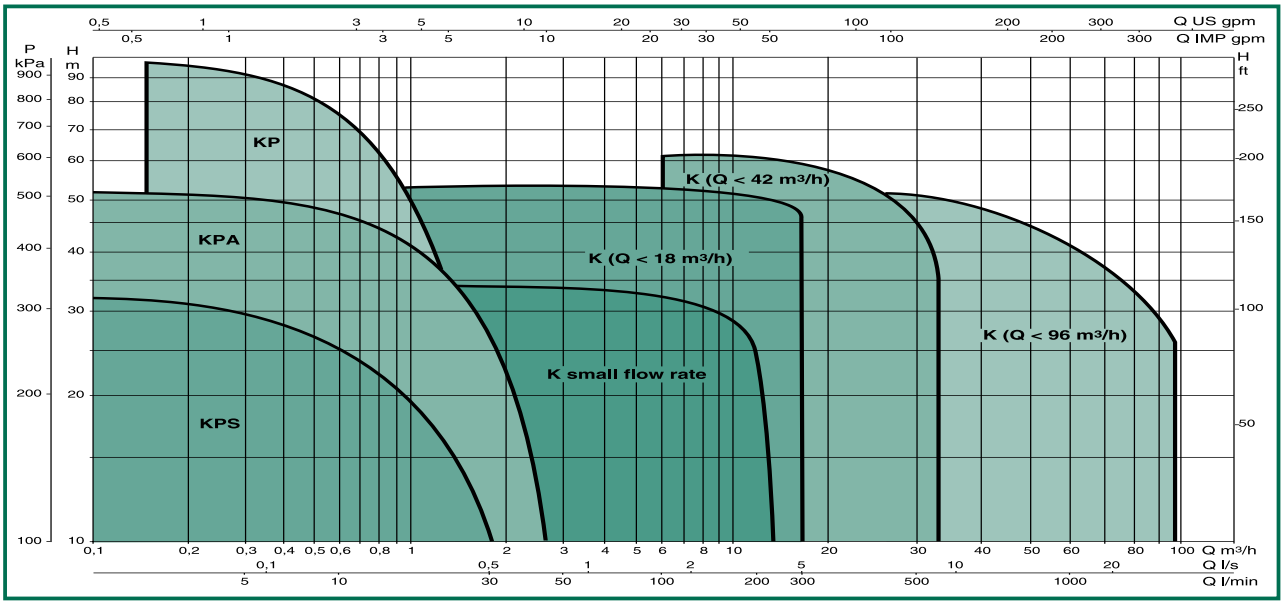
DAB®

PUMP PERFORMANCE

PERFORMANCE RANGE

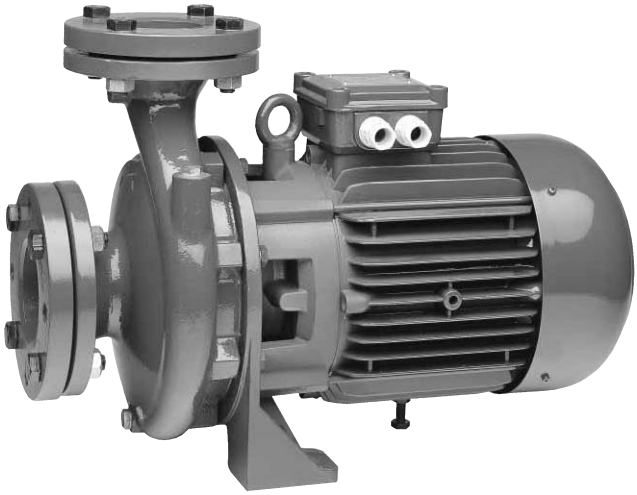
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

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

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.

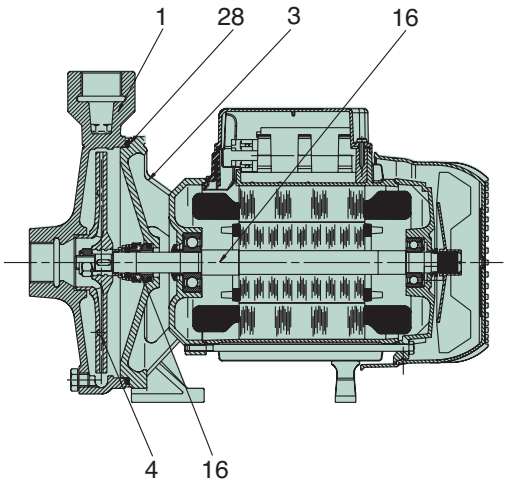
Constructional features of the pump
Cast iron pump body and motor support.
Technopolymer or cast iron impeller, as indicated in the table of TECHNICAL DATA.
Carbon/ceramic mechanical seal.

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

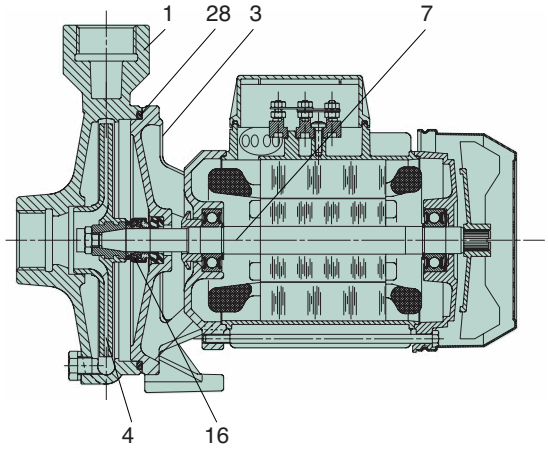
Standard voltage:	single-phase	220-240 V/50 Hz
	three-phase	230-400 V/50 Hz up to and including 4 kW
		400 V Δ 50 Hz over 4 kW

TECHNICAL DATA

K 20/41 - K 30/70 - K 12/200



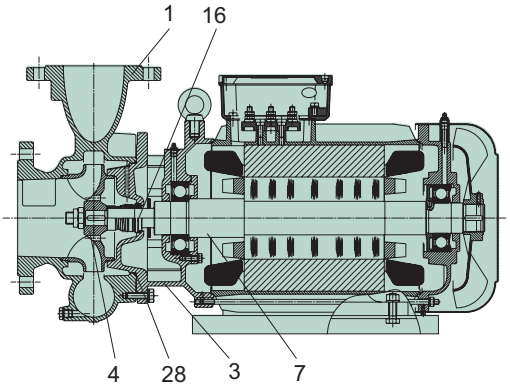
K 30/100 - K 36/100



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

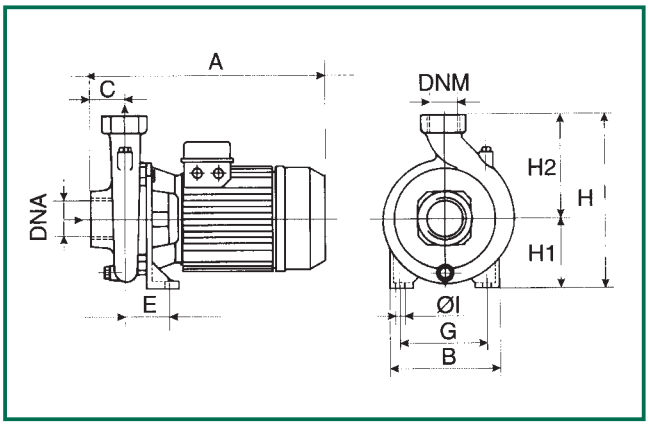


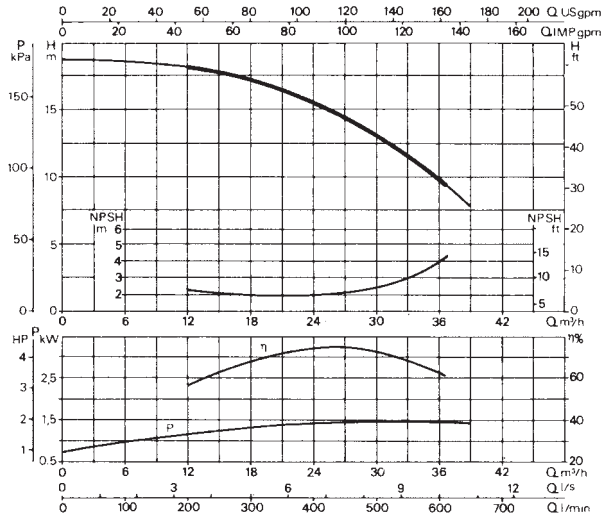
- Operating range: from 1.8 to 96 m³/h with head up to 62 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range:
  K 20/41, K 30/70, K 30/100, 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

The performance curves are based on the kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

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

K 14/400

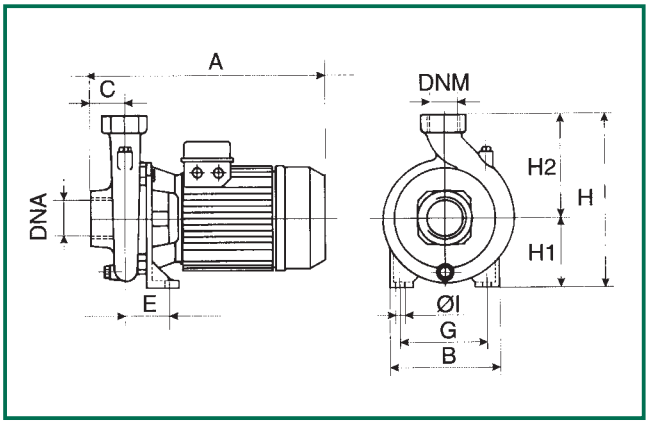


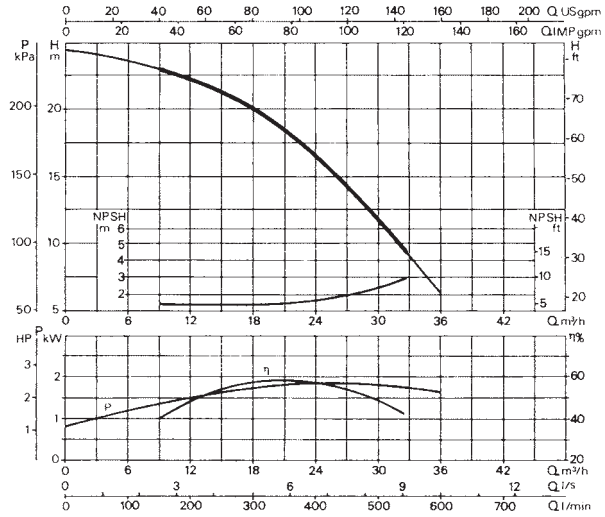


MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m^3	WEIGHT Kg
K 14/400 M	430	200	62	74	120	11	270	105	165	2" G	2" G	427	246	307	0,032	24,5
K 14/400 T	358	200	62	74	120	11	270	105	165	2" G	2" G	427	246	307	0,032	22

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 m^3/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





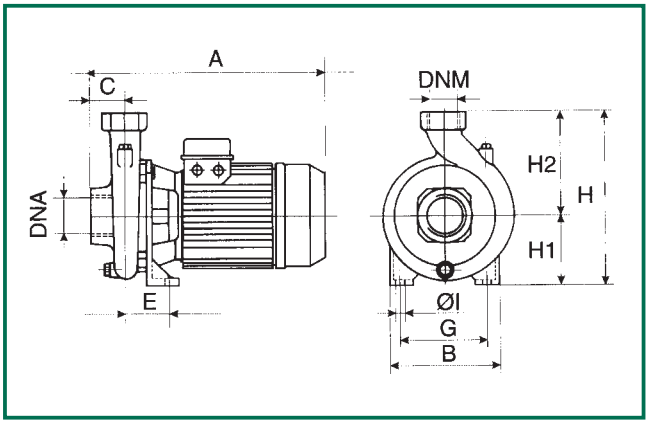
MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m^3	WEIGHT Kg
K 11/500	440	240	62	100	155	14	312	132	180	2½" G	2" G	512	286	345	0,049	33,2

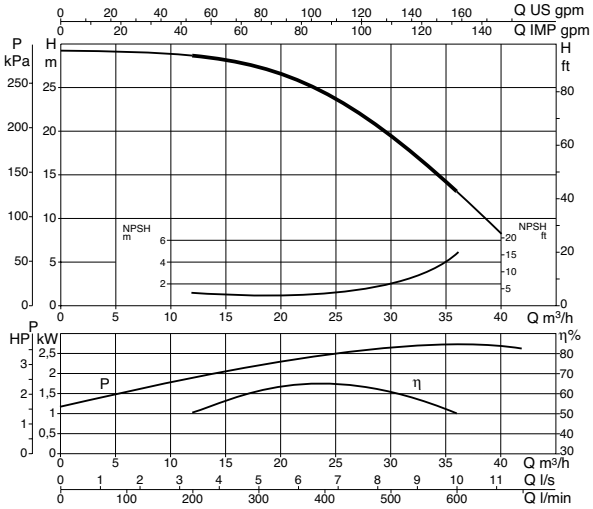
MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≃ 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	P2 NOMINAL HP	In A	I st. A	1/min	η max %	cos φ	Q m^3/h	0	6	9	12	15	18	24	30	36
										Q l/min	0	100	150	200	250	300	400	500	600
K 11/500 T	3x230-400 V ~	2,6	2,2	3	7,6-4,4	45-26	2900	81,2	0,81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

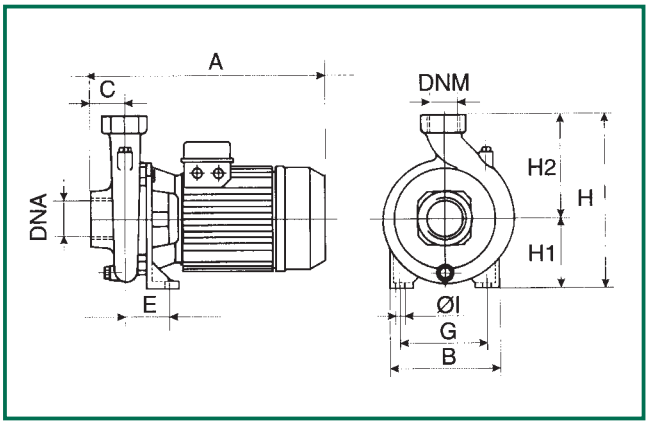


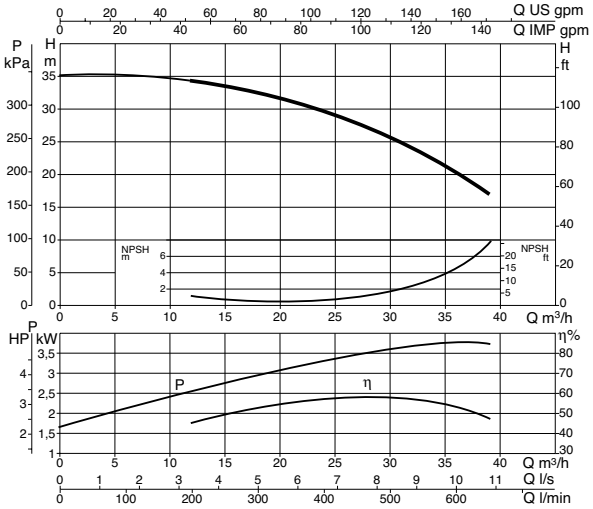


MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS L/A	L/B	H	VOLUME m³	WEIGHT Kg
K 18/500	440	240	62	100	155	14	312	132	180	2½" G	2" G	512	286	345	0,049	35,6

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	