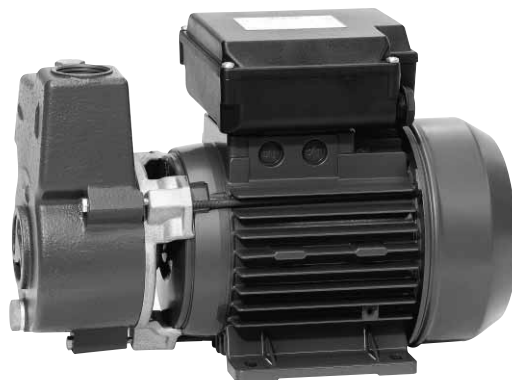

KPA

PUMP WITH SIDE LIQUID CHANNEL



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

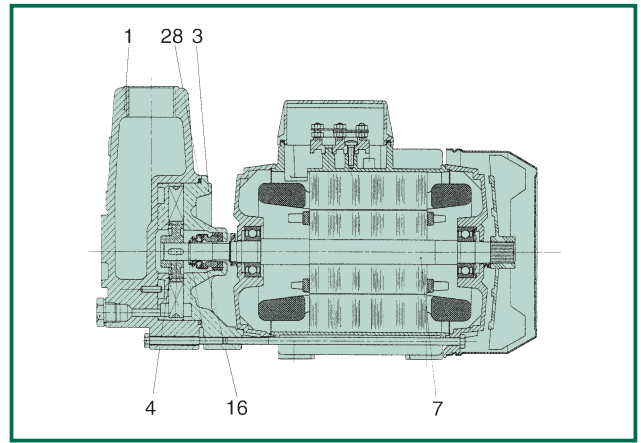
Standard voltage: single-phase 220-240 V / 50 Hz

 three-phase 230-400 V / 50 Hz

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

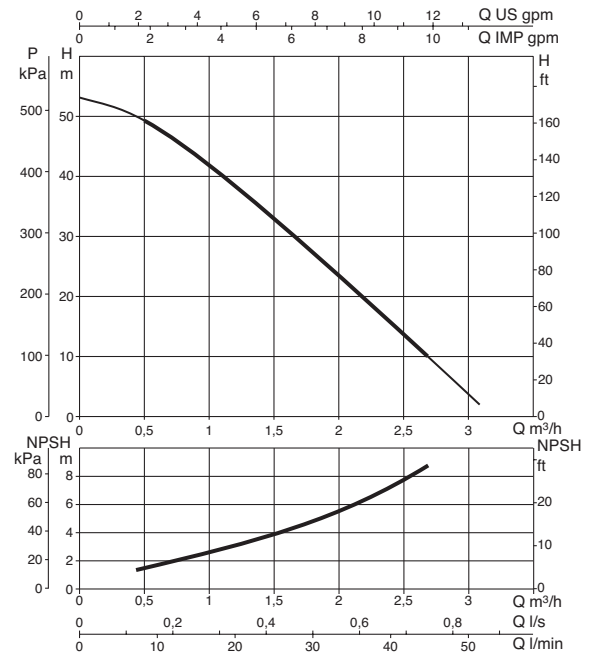
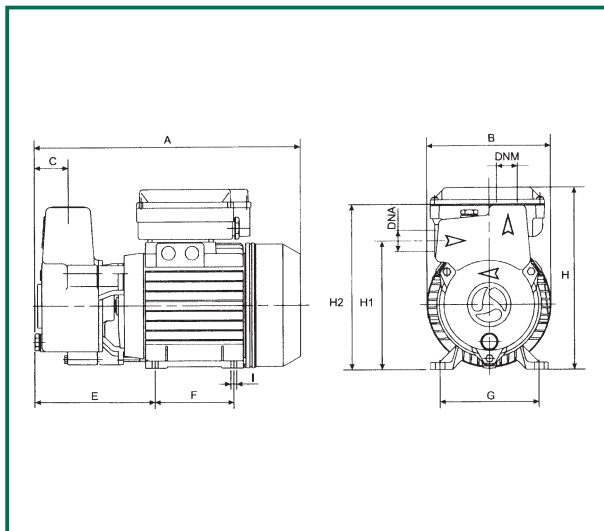
* In contact with the liquid.



- 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	∅	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
													L/A	L/B	H	m ³	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		In A	I st. A	1/min	η max %	cos φ	CAPACITOR		Q m³/h	0	0,6	1,2	1,8	2,4	2,7
			kW	HP						μF	Vc	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	-	-							