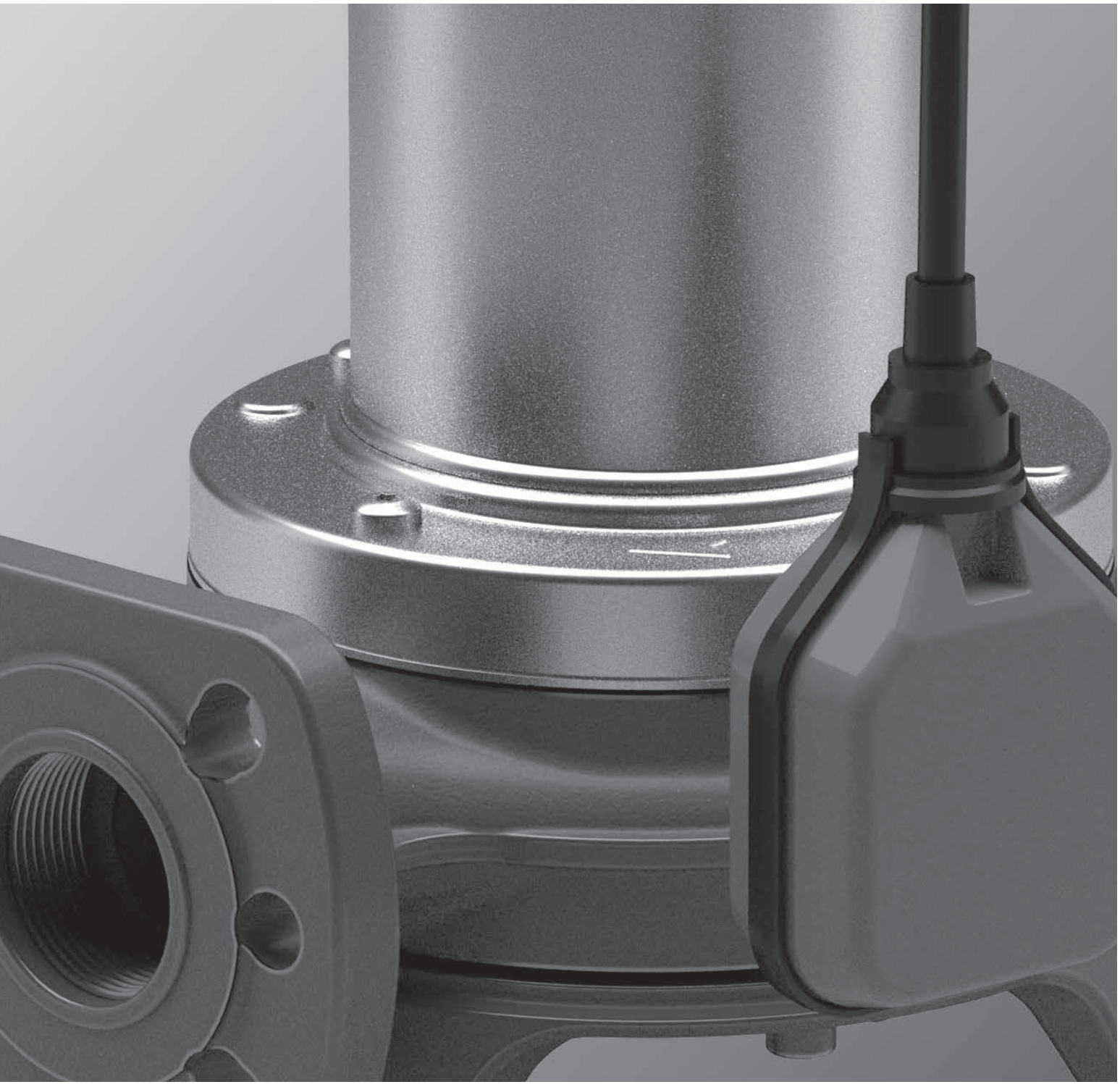
DAB
WATER•TECHNOLOGY

FEKA VS GRINDER

SUBMERSIBLE PUMPS WITH SHREDDER FOR SEWAGE



FEKA VS GRINDER

SUBMERSIBLE PUMP

TECHNICAL DATA

Flow rate: from 0 m^3h to 14,4 m^3h
Head: 25 m
Pumped liquid: sewage water, gray water
Free passage: n/a
Liquid temperature: from 0°C to +40°C for domestic use
Outlet:1'' 1/2 GAS - DN 32 and DN 40
Outlet direction: horizontal and vertical with curve kit accessory
Impeller: vortex in cast iron, there is a shredder
Motor protection degree: IP 68
Thermal classification of the motor insulation: F
Power cable type: H07RN8-F
Possible type of installation: fixed or mobile in vertical position
Maximum immersion depth: 7 meters

Submersible pump for draining wastewater in commercial building service. The pump is certified to the European Union standard EN 12050-1 which applies to lifting systems for waste water containing fecal material in buildings and construction sites. Thanks to the shredder, the pump is suitable for systems with small diameter pipes or those requiring high pressures. Pump suitable for fixed installations with coupling device or mobile installation if placed directly on the bottom of the tank. Construction according to CEI 2-3 CEI 61-69 (EN 60335-2-41) standards. Single-phase versions is available in automatic version with integrated float switch or in the manual version without float switch.

CONSTRUCTION FEATURES OF THE PUMP

The motor shaft is in AISI 316 stainless steel. Double mechanical seal with interposed oil chamber (non-toxic oil) in carbon/alumina on the motor side and silicon carbide/silicon carbide on the pump side. Seal holder cover, motor case, cap and handle are made in stainless steel. The pump body and the base are in cast iron. The shredding system is in AISI 630 stainless steel. The handle is covered in insulating rubber.

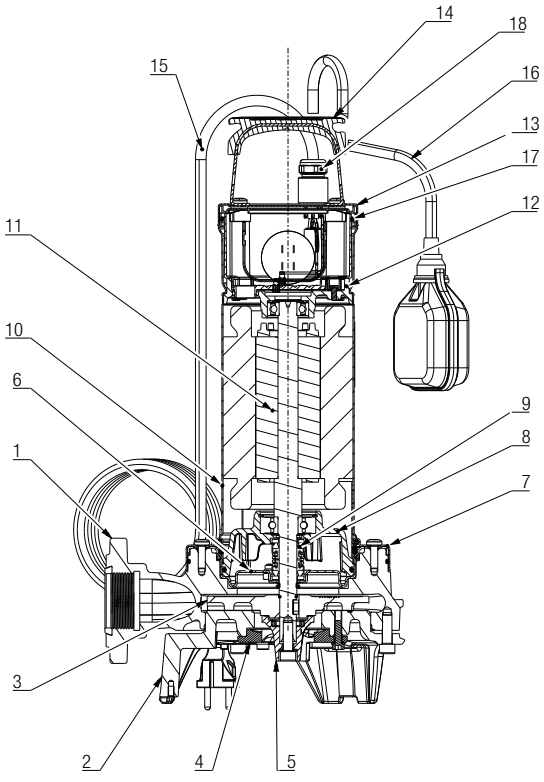
CONSTRUCTION FEATURES OF THE MOTOR

The motor is asynchronous, it is watertight, cooled by the pumped liquid. The rotor is mounted on greased-for-life ball bearings, oversized and selected to ensure low noise and durability. Standard thermo-amperometric protection for the single-phase version with capacitor inserted as standard, the three-phase version has a thermal protection which can be connected to a control panel.

MATERIALS

N°	PARTS*		MATERIALS
1	PUMP HOUSING		CAST IRON
2	PUMP BASE		CAST IRON
3	IMPELLER		CAST IRON
4	CUTTER BASE		STAINLESS STEEL
5	CUTTER		STAINLESS STEEL
6	SHAFT SEAL DISC		STAINLESS STEEL
7	MOTOR CONNECTION FLANGE		STAINLESS STEEL
8	LOWER BEARING SUPPORT		ALUMINUM
9	DOUBLE MECHANICAL SEAL	PUMP SIDE	SIC/SIC
		MOTOR SIDE	CARBON / ALUMINA
10	MOTOR CASE		STAINLESS STEEL
11	MOTOR SHAFT		STAINLESS STEEL
12	UPPER BEARING SUPPORT		ALUMINUM
13	COVER CONNECTION		STAINLESS STEEL
14	HANDLE		STAINLESS STEEL AND INSULATING RUBBER
15	SUPPLY CABLE		H07RN8-F
16	FLOAT SWITCH CABE		H07RN-F
17	O-RINGS		NBR
18	CABLE GLAND		NICHEL-PLATED BRASS

* In contact with the liquid



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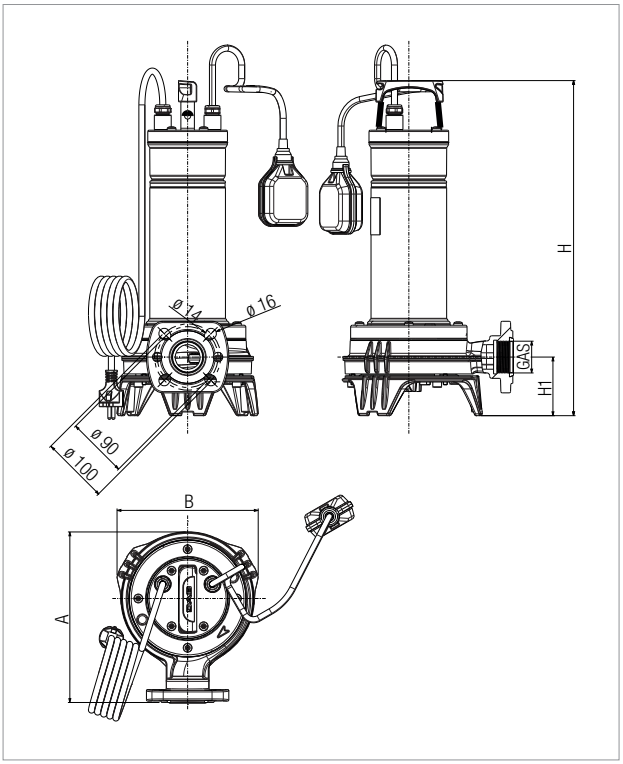
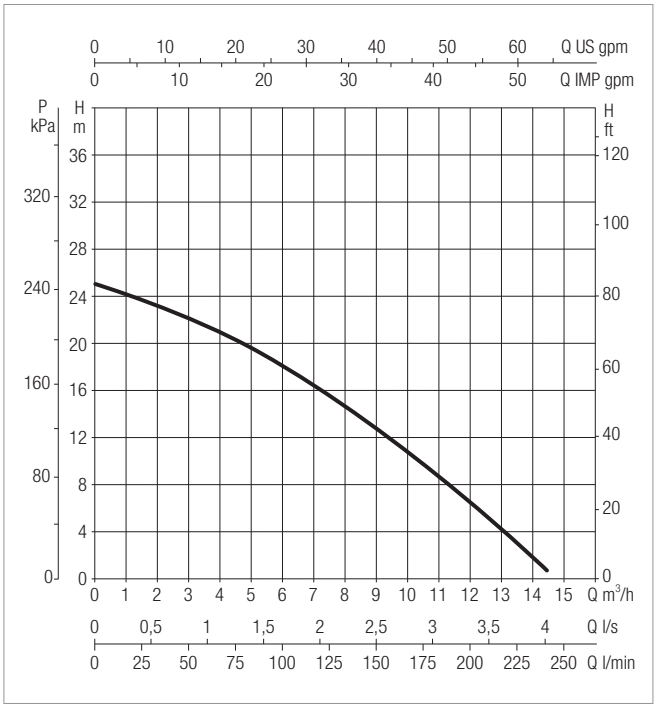
Liquid temperature range: from 0°C a +40°C for domestic use.





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

PERFORMANCE AT 50 HZ

MODEL	HYDRAULIC DATA										
	Q=m³/h	0	2	4	6	8	9	10	11	12	14
	Q=l/min	0	34	66	100	135	150	168	180	200	240
FEKA VS GRINDER 1000 MA	H (mt)	25	23	21	18	14,5	12,8	10,5	9	6,5	0,67
FEKA VS GRINDER 1000 M-NA		25	23	21	18	14,5	12,8	10,5	9	6,5	0,67
FEKA VS GRINDER 1000 TNA		25	23	21	18	14,5	12,8	10,5	9	6,5	0,67

ELECTRICAL DATA

MODEL	ELECTRICAL DATA							
	POWER INPUT 50 Hz	P1 MAX W	P2 NOMINAL		In A	Ist A	CAPACITOR	
			kW	HP			µF	Vc
FEKA VS GRINDER 1000 MA	220 x 240V	1,3	1	1,3	6,4 A	29.9	35	450
FEKA VS GRINDER 1000 M-NA	220 x 240V	1,3	1	1,3	6,2 A	29.9	35	450
FEKA VS GRINDER 1000 TNA	380 x 415V	1,3	1	1,3	3 A	19.8	-	-

DIMENSIONAL DATA

MODEL	A	B	H	H1	GAS	DN1	HOLES	PACKING DIMENSIONS			VOLUME (mc)	WEIGHT Kg
								L/A	L/B	H		
FEKA VS GRINDER 1000	253	209	496	87	Rp 1" 1/2	DN32 PN10 / 6 DN40 PN6	4 2	290	230	560	0,037	23

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