

Models GRINDER 100 / 11 MG
GRINDER 100 / 15 MG

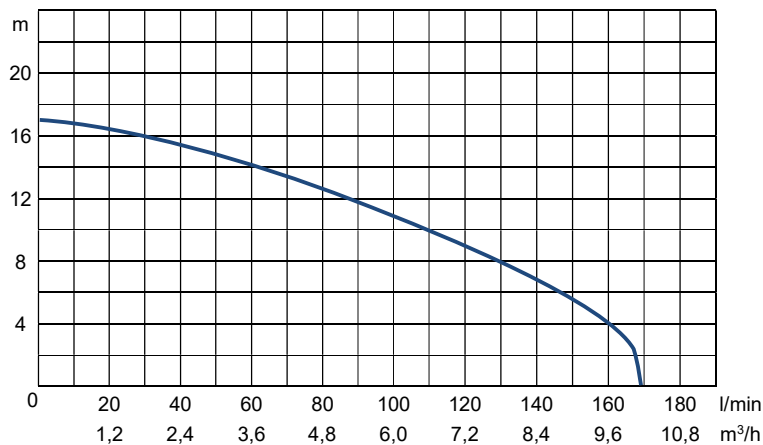
Description Professional grinding pump suitable to chop up diapers, paper, nylon bags, rags, latex gloves, etc. Its most frequent applications are in the pumping of sewage water in hotels, camping sites, restaurants and hospitals. In general grinding pumps are necessary when the discharge pipe is narrow or when a high head is required. The single-phase models are supplied with an external control box at the end of the feeding cable including an amperometric protection at manual reset.



Pumped fluid
Application Sewage water containing solid parts
Max Density 1100 kg/m³
Temperature range 0-40 °C
pH range 6-10 pH

Performance

Models		Head (m)							
		0	4	6	8	10	12	14	16
		Capacity							
GRINDER 100 / 11 MG	l/min	168	159	147	130	109	88	60	30
GRINDER 100 / 15 MG	m ³ /h	10,1	9,5	8,8	7,8	6,5	5,3	3,6	1,8
	l/s	2,80	2,65	2,45	2,17	1,82	1,47	1,00	0,50



Hydraulic

Impeller type	Multi-channel open impeller type
Outlet	2" – vertical, threaded BSP (GAS) female
Free passage	-
Max head	17 m (1.7 bar)
Min head	0 m
Max capacity	168 l/min
Min suction level	170 mm

Electric characteristics

Models	Power (P ₂)		rpm	Voltage V	ph	I _N A	Built-in float-switch	Capacitor μF
	HP	kW						
GRINDER 100 / 11 MG	1.0	0.75	2850	230	1~	6,1	YES	30 ⁽¹⁾
GRINDER 100 / 15 MG								30 ⁽¹⁾ + 100 ⁽²⁾

(1) Running capacitor inside the pump

(2) Starting capacitor into the external control box

Technical characteristics

IP	68
Sealing	Double mechanical seal in oil bath + oil seal
Max. immersion	5 meters (with 10 meters cable)
Protective coating	Two-component epoxy paint anti-corrosion
Sound pressure level	< 70dB

Components & Materials

Cable	GRINDER 100 / 11 MG: Neoprene H07RNF length 10 meters 3G1,0 + Control box with amperometric protection + Neoprene H07RNF length 1,5 meters 3G1,0 with molded SHUKO plug GRINDER 100 / 15 MG: Neoprene H07RNF length 10 meters 4G1,0 + Control box with amperometric protection and starting capacitor + Neoprene H07RNF length 1,5 meters 3G1,0 with molded SHUKO plug
Cutting system	Stainless steel AISI 440 1.4112
Impeller	Cast-iron EN-GJL-250
Pump support	Cast-iron EN-GJL-250
Discharge body	Cast-iron EN-GJL-250
Motor case	Cast-iron EN-GJL-250
Pump cover	Cast-iron EN-GJL-250
Motor shaft	Stainless steel AISI 420B 1.4028
Screws	Stainless steel AISI 304 1.4301 (A2)
Mechanical seal	Lower: Silicon carbide / Silicon carbide / NBR / AISI 304 Upper: Silicon carbide / Silicon carbide / NBR / AISI 304
Oil seal	NBR
Kit o-ring	NBR
Ball bearings	Lower and upper: 6203 RZ
Oil	Dielectric, not polluting, not toxic

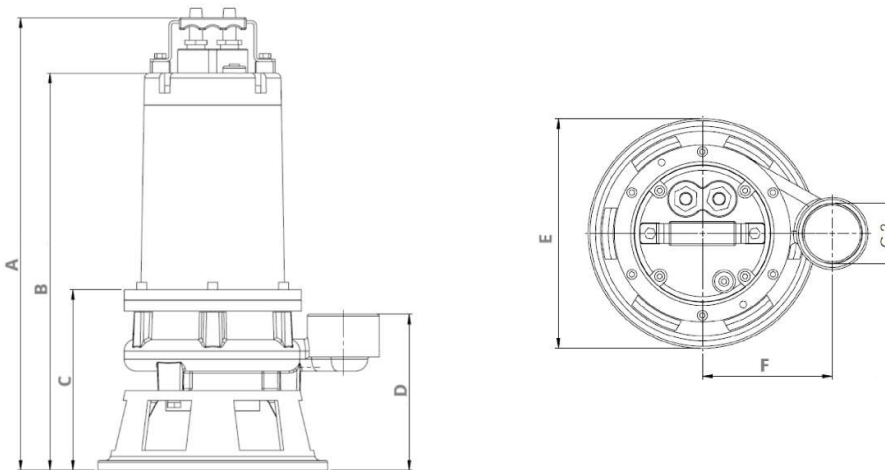
Motor characteristics

Type of motor	Hard-duty squirrel cage motor
Start type	DOL (Direct On Line)
Protection	Built-in automatic-reset thermal-amperometric protection + manual-reset amperometric protection on the external control box
Insulation class	Class F
Nos. of poles	2
Service type	S2
Cooling	Ensured by the immersion of the pump into the fluid

Optional available

Coupling foot	Coupling foot model 2" vertical (connection 2")
Hose connection	Straight hose connection in brass, 3 pieces, 2" x DN50mm
No return valve	Professional no-return ball check valve 2" in cast-iron with NBR ball
Separated float switch	10 meters cable or 20 meters cable float-switch to be connected to an electric board F5-0.5/3-1
Anods	To avoid corrosion by galvanic currents

Dimensions & weight



Models	Dimensions (mm)						Carton box	Weight kg	Pumps per layer on EPAL
	A	B	C	D	E	F			
GRINDER 100 / 11 MG	454	398	181	157	230	131	295x255xH490	27	12
GRINDER 100 / 15 MG							295x255xH550		