

Model SUPERSAND N 150 / 23

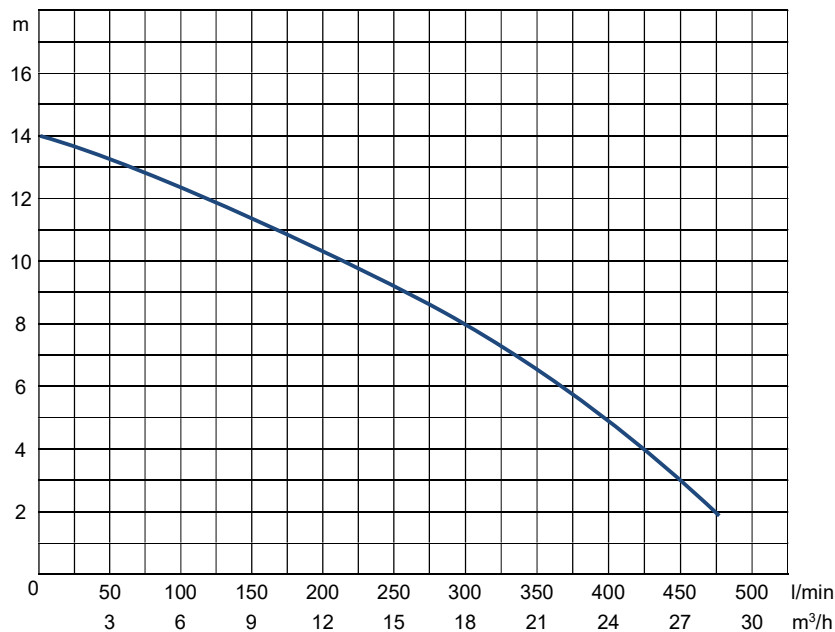
Description Portable heavy-duty construction pump suitable to pump sandy and muddy water. Its most frequent applications are in the drainage of contractor sites and in general in dewatering. The impeller is made of a very abrasion-resistant material and the pump can be also installed in marble or glass processing plants. The pumped fluid that flows between the motor case and the external case allows the pump to be used even with a very low liquid level.



Pumped fluid
Application Sandy and muddy water
Max Density 1100 kg/m³
Temperature range 0-40 °C 32-104 °F
pH range 6-10 pH

Performance

Model		Head (m)					
		2	4	6	8	10	12
SUPERSAND N 150 / 23		Capacity					
	l/min	475	425	365	295	210	115
	m ³ /h	28,5	25,5	21,9	17,7	12,6	6,9
	l/s	7,92	7,08	6,08	4,92	3,50	1,92



Hydraulic

<i>Impeller type</i>	Multi-channel open impeller type
<i>Outlet</i>	2" – vertical (at pump top), threaded BSP female
<i>Free passage</i>	7 mm
<i>Max head</i>	14 m (1.4 bar)
<i>Min head</i>	2 m
<i>Max capacity</i>	475 l/min
<i>Min suction level</i>	100 mm

Electric characteristics

Model	Power (P₂)		rpm	Voltage	ph	I_N	Built-in float-switch	Capacitor
	HP	kW						
SUPERSAND N 150 / 23	1.5	1.1	2850	230	1~	9,0	NO	35

Technical characteristics

<i>IP</i>	68
<i>Sealing</i>	Double mechanical seal in oil bath + oil seal
<i>Max. immersion</i>	15 meters (with 20 meters cable)
<i>Protective coating</i>	None
<i>Sound pressure level</i>	< 70dB

Components & Materials

<i>Cable</i>	Neoprene H07RNF, length 20 meters, 3G1,5 with free ends Resined cable gland for watertight sealing of the cable
<i>Impeller</i>	Stainless steel AISI 304 1.4301 (A2)
<i>Bottom grid</i>	Stainless steel AISI 304 1.4301 (A2)
<i>Casing cover</i>	Cast-iron EN-GJL-200
<i>Casing</i>	Cast-iron EN-GJL-200
<i>Mech. seals chamber</i>	Cast-iron EN-GJL-200
<i>Motor case</i>	Stainless steel AISI 304 1.4301 (A2)
<i>Pump cover</i>	Cast-iron EN-GJL-200
<i>External case</i>	Stainless steel AISI 304 1.4301 (A2)
<i>Motor shaft</i>	Stainless steel AISI 410 1.4006
<i>Screws</i>	Stainless steel AISI 304 1.4301 (A2)
<i>Mechanical seal</i>	Lower: Silicon carbide / Silicon carbide / NBR / AISI 304 Upper: Alumina / Graphite / NBR / AISI 304
<i>Oil seal</i>	NBR
<i>Kit o-ring</i>	NBR
<i>Ball bearings</i>	Lower: 6303 LU, upper: 6202 LU
<i>Oil</i>	Dielectric, not polluting, not toxic

Motor characteristics

Type of motor	Hard-duty squirrel cage motor in oil bath
Start type	DOL (Direct On Line)
Protection	Automatic reset built-in thermal protection
Insulation class	Class F
Nos. of poles	2
Service type	S1 (with pump completely immersed into pumped fluid)
Cooling	Ensured by the pumped fluid that flows between the motor case and the external pump case

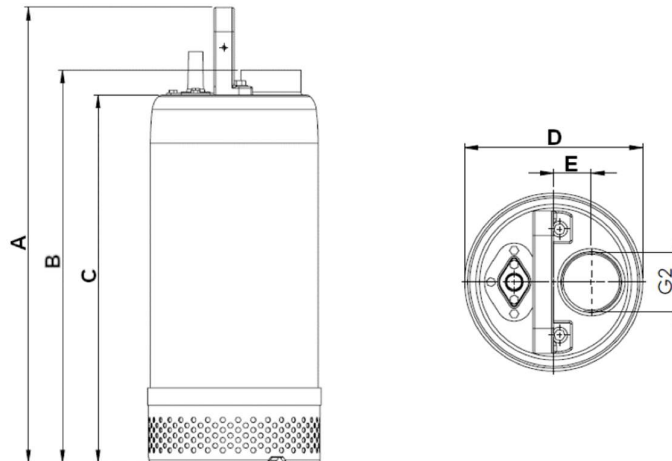
Optional available

Hose connection	Quick-coupling "storz" connection with DN50 hose connection in aluminum
Flat PVC hose	Three-layers flat roll-up hose made of PVC and high tensile synthetic textile. Suitable to pump abrasive fluids.
Electric board	F5-0.5/3-1
Separated float switch	10 meters cable or 20 meters cable float-switch to be connected to an electric board F5-0.5/3-1
Anodes	To avoid corrosion by galvanic currents

Special features on request

Special epoxy coating	Special painting with two different bi-component epoxy coatings on each pump component before pump assembly. It grants a very good protection against corrosion. With this treatment the pump can be used also to pump sea water.
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Dimensions & weight



Model	Dimensions (mm)					Carton box	Weight kg	Pumps per layer on EPAL
	A	B	C	D	E			
SUPERSAND N 150 / 23	473	408	382	180	38	295x255Xh490	24	12