

Model VORTEX 550 E / 23

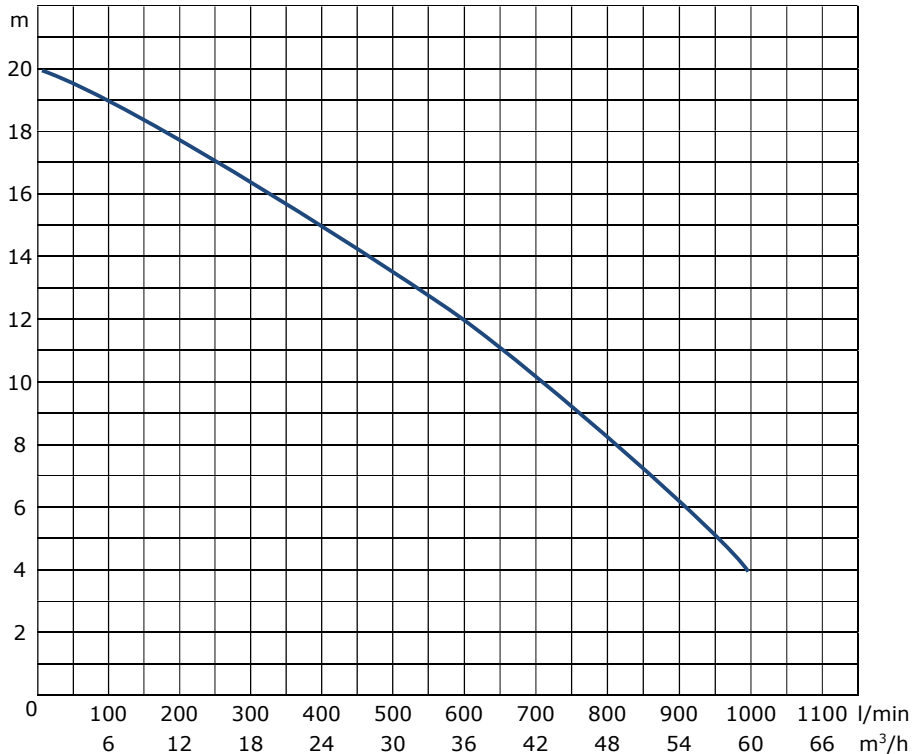
Description Top-quality heavy-duty construction pump suitable to pump dirty water. It can be used in many applications such as industrial plants or farms whenever it is required a pump with a high head.



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

Performance

Model		Head (m)							
		4	6	8	10	12	14	16	18
VORTEX 550 E / 23		Capacity							
	l/min	998	910	815	704	600	470	330	175
	m ³ /h	59,9	54,6	48,9	42,2	36,0	28,2	19,8	10,5
	l/s	16,63	15,17	13,58	11,73	10,00	7,83	5,50	2,92



Hydraulic

<i>Impeller type</i>	Back open impeller "vortex" type
<i>Outlet</i>	DN 80 – vertical, PN 16, round counterflange threaded 3" BSP
<i>Free passage</i>	56 mm
<i>Max head</i>	20 m (2.0 bar)
<i>Min head</i>	4 m
<i>Max capacity</i>	998 l/min
<i>Min suction level</i>	150 mm

Electric characteristics

Model	Power (P ₂)		rpm	Voltage	ph	I _N A	Built-in float-switch
	HP	kW					
VORTEX 550 E / 23	5.5	4.0	2850	400	3~	7,6	NO

Technical characteristics

<i>IP</i>	68
<i>Sealing</i>	Double mechanical seal in oil bath
<i>Max. immersion</i>	5 meters
<i>Protective coating</i>	Two-component epoxy paint anti-corrosion
<i>Sound pressure level</i>	< 70dB

Components & Materials

<i>Cable</i>	Neoprene H07RN8F, length 10 meters, 4G2,5 with free ends Resined cable gland for watertight sealing of the cable
<i>Impeller</i>	Cast-iron EN-GJL-200
<i>Pump support</i>	Cast-iron EN-GJL-200
<i>Discharge body</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>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 / NBR / AISI 304 Upper: Alumina / Graphite / AISI 304
<i>Kit o-ring</i>	NBR
<i>Ball bearings</i>	Lower: 6305-LU, upper: 6204-LU
<i>Oil</i>	Dielectric, not polluting, not toxic

Motor characteristics

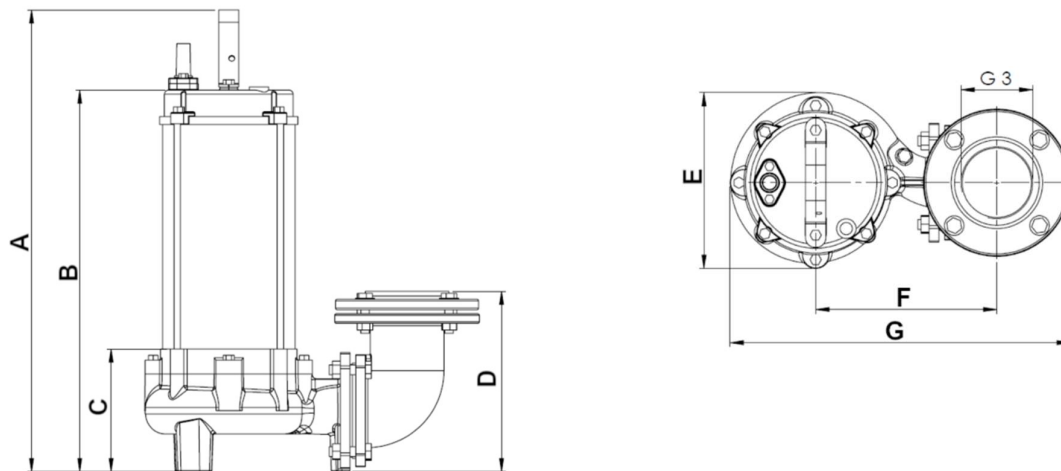
Type of motor	Hard-duty squirrel cage motor
Start type	DOL (Direct On Line)
Protection	Automatic reset built-in thermal protection; it is anyway suggested to connect the pump to an electric board with a magnetothermic switch (see optional section for electric boards)
Insulation class	Class F
Nos. of poles	2
Service type	S1 (with pump completely immersed into pumped fluid)
Cooling	Ensured by the immersion of the pump into the fluid

Optional available

Coupling foot	Coupling foot model DN80 for VORTEX 400-550-750 E (connection DN80)
Hose connection	Storz connection 3" – DN80
Electric board	Model F6-0.5/10-3
No return valve	Professional no-return flanged ball check valve DN80 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 F6-0.5/10-3
Anods	To avoid corrosion by galvanic currents

Special features on request

Metallized impeller	Metallic coating of the impeller in molybdenum carbide for very abrasive applications
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Dimensions & weight


Model	Dimensions (mm)								Weight kg	Pumps per layer on EPAL
	A	B	C	D	E	F	G	Carton box		
VORTEX 550 E / 23	576	476	153	225	215	222	417	460x270xH640	47	6