VORTEX 100-140 SS 316 / VX1

Models

VORTEX 100 SS 316 / VX1
VORTEX 140 SS 316 / VX1

Description

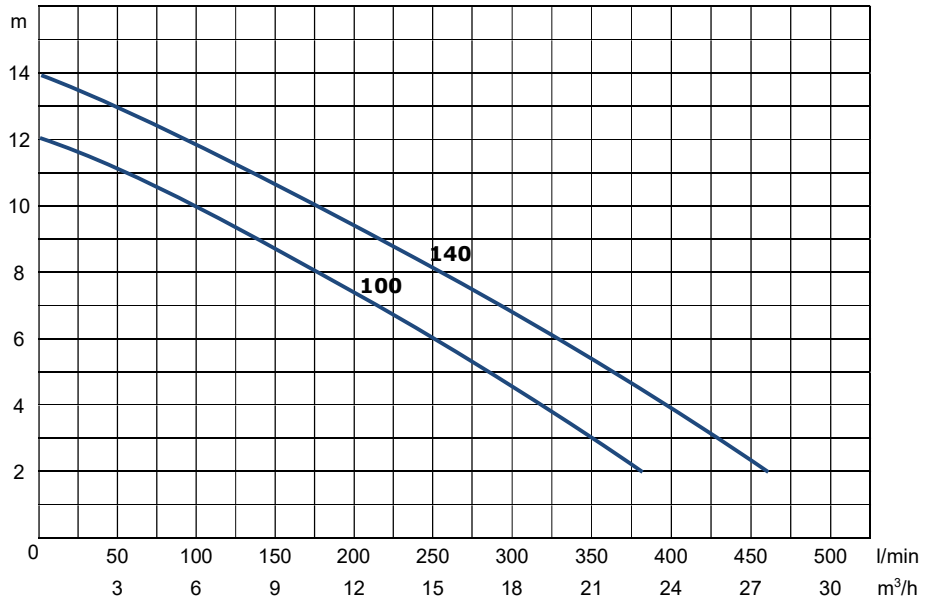
Top-quality heavy-duty construction pump suitable to pump aggressive dirty waters, acid and alkaline effluents, sea water, etc. Its most frequent applications are in the food industries, on chemical, galvanic and tanning plants, in the fish industries and in several seaport applications.

Pumped fluid

Application	Acid, alkaline and corrosive effluents
Max Density	1100 kg/m^3
Temperature range	0-40 °C 32-104 °F
pH range	2-14 pH

Performance

Models		**Head (m)**					
		2	**4**	**6**	**8**	**10**	**12**
		Capacity					
VORTEX 100 SS 316 / VX1	l/min	380	322	250	175	98	
	m^3/h	22,8	19,3	15,0	10,5	5,9	
	l/s	6,33	5,37	4,17	2,92	1,63	
VORTEX 140 SS 316 / VX1	l/min	460	400	326	255	177	90
	m^3/h	27,6	24,0	19,6	15,3	10,6	5,4
	l/s	7,67	6,67	5,43	4,25	2,95	1,50



Hydraulic

Impeller type	Back open impeller "vortex" type
Outlet	2" – horizontal, threaded BSP female
Free passage	45 mm
Max head	VORTEX 100 SS 316 / VX1: 12m (1.2 bar) VORTEX 140 SS 316 / VX1: 14m (1.4 bar)
Min head	2 m
Max capacity	VORTEX 100 SS 316 / VX1: 380 l/min VORTEX 140 SS 316 / VX1: 460 l/min
Min suction level	111 mm

Electric characteristics

Model	**Power** (P_2) HP	kW	**rpm**	**Voltage** V	**ph**	**I_N** A	**Built-in float-switch**	**Capacitor** µF
VORTEX 100 SS 316/VX1 M	1.0	0.75	2850	230	1~	6,6	NO	20
VORTEX 100 SS 316/VX1 MG							YES	
VORTEX 100 SS 316/VX1 T				400	3~	2,8	NO	-
VORTEX 100 SS 316/VX1 TG							YES	
VORTEX 140 SS 316/VX1 M	1.4	1.04	2850	230	1~	7,2	NO	20
VORTEX 140 SS 316/VX1 MG							YES	
VORTEX 140 SS 316/VX1 T				400	3~	3,0	NO	-
VORTEX 140 SS 316/VX1 TG							YES	

Technical characteristics

IP	68
Sealing	Double independent mechanical seal in oil bath + oil seal
Max. immersion	5 meters (with 10 meters cable)
Protective coating	None
Sound pressure level	< 70dB

Components & Materials

Cable	Neoprene H07RN8F, length 10 meters. 3G1 with molded SHUKO plug for single-phase; 4G1 with free ends for three-phase Resined cable gland for watertight sealing of the cable
Impeller	Stainless steel AISI 316L 1.4435 (A4)
Discharge body	Stainless steel AISI 316L 1.4435 (A4)
Motor case	Stainless steel AISI 316L 1.4435 (A4)
Pump cover	Stainless steel AISI 316L 1.4435 (A4)
Motor shaft	Stainless steel AISI 316L 1.4435 (A4)
Screws	Stainless steel AISI 316L 1.4435 (A4)
Mechanical seal	Lower: Silicon carbide / Silicon carbide / Viton / AISI 316 Upper: Alumina / Graphite / NBR / AISI 304
Oil seal	Viton
Kit o-ring	Viton
Ball bearings	Lower: 6303 2RSH C3, upper: 6202 2RSH C3
Oil	Dielectric, not polluting, not toxic

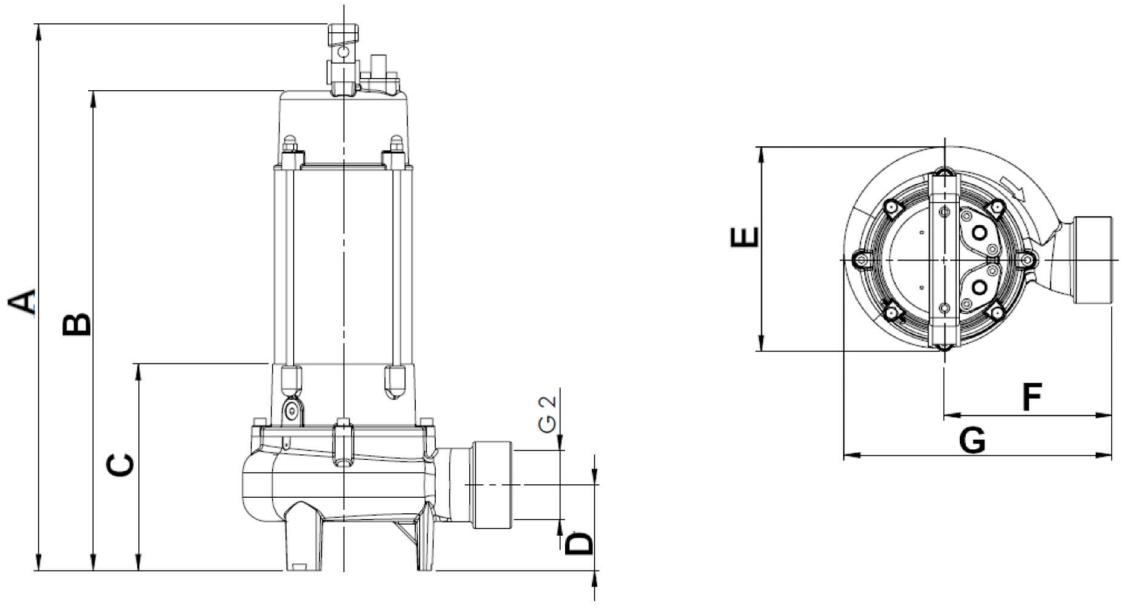
Motor characteristics

Type of motor	Hard-duty squirrel cage motor
Start type	DOL (Direct On Line)
Protection	Automatic reset built-in thermal protection (for single-phase voltage); by a magnetothermic switch by the user for three-phase voltage (see optional section for electric boards)
Insulation class	Class F
Nos. of poles	2
Service type	S1 (with pump completely immerged into pumped fluid)
Cooling	Ensured by the immersion of the pump into the fluid

Optional available

Coupling foot	Coupling foot model 2” (connection 2”) in cast-iron
Hose connection	- 90° elbow hose connection in brass, 3 pieces, 2” x DN50mm - 90° elbow in stainless steel AISI 316, 2”M x 2”F
Electric board	F5-0.5/3-1 for single-phase, F6-0.5/10-3 for three-phase
No return valve	- Professional no-return ball check valve 2” in cast-iron, NBR ball - Professional no-return ball check valve 2” in AISI 316, FPM 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 o F6-0.5/10-3
Anods	To avoid corrosion by galvanic currents

Dimensions & weight



Models	Dimensions (mm) A	B	C	D	E	F	G	Carton box	Weight kg	Pumps per layer on EPAL
VORTEX 100 SS 316/VX1	453	398	171	71	171	223	139	230x200xH470	16,5	20
VORTEX 140 SS 316/VX1									17	