MARQUIS

Comprar online

STAINLESS STEEL SEWAGE PUMPS

PERFORMANCE RANGE

- ◆ flow rate up to 300 l/min. (18 m³/h)
- ◆ head up to 12 m

OPERATING LIMITS

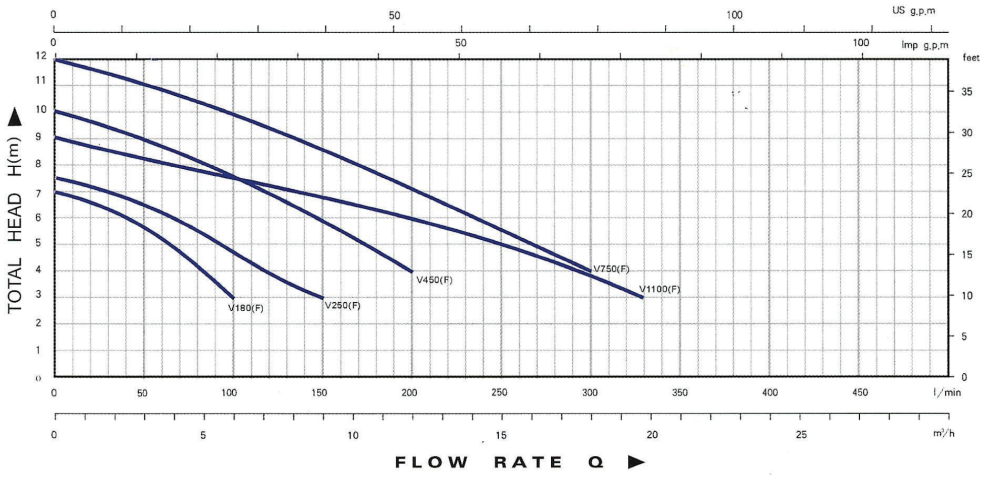
- ◆ maximum operating depth 5 m below water level
- ◆ fluid temperature up to 40℃
- ◆ maximum passage for suspended solids Φ30 mm
- ◆ maximum emptying level 40 mm from the bottom

STRUCTURAL CHARACTERISTICS

- ◆ stainless steel pump body
- ◆ stainless steel mechanical seal (graphite to ceramic or SIC to graphite)
- ◆ stainless iron or 45# steel shaft
- ◆ with float switch or without
- ◆ cast iron impeller or nylon impeller with technopolymer open type.
- ◆ with thermal overload protector in single phase motor

V750(F)

PERFORMANCE CHART AT n=2900 rpm



PUMP MODEL	POWER		Q (m³/h)	0	1	2	3	4	5	6	8	10	12	14	16	18	20
Single phase	KW	HP	l/min	0	16.6	33.3	50	66.7	83.3	100	133.4	166.6	200	233.1	266.8	299.7	333.20
V180(F)	0.18	0.2		7.0	6.7	6.2	5.7	4.9	4.0	3.0							
V250(F)	0.25	0.35	H	7.5	7.2	7.0	6.5	6.0	5.3	4.8	3.5						
V450(F)	0.40	0.5	m	10	9.8	9.01	8.9	8.3	8.0	7.5	6.3	5.0	4.0				
V750(F)	0.75	1		12	11.5	11.2	11.0	10.5	10.1	9.9	9.0	8.0	7.0	6.0	5.0	4.0	
V1100(F)	1.1	1.5		9.0	8.8	8.5	8.2	8.1	8.0	7.8	7.0	6.5	6.0	5.0	4.5	3.7	3.0

H=TOTAL DYNAMIC HEAD IN METERS. Q=FLOW RATE

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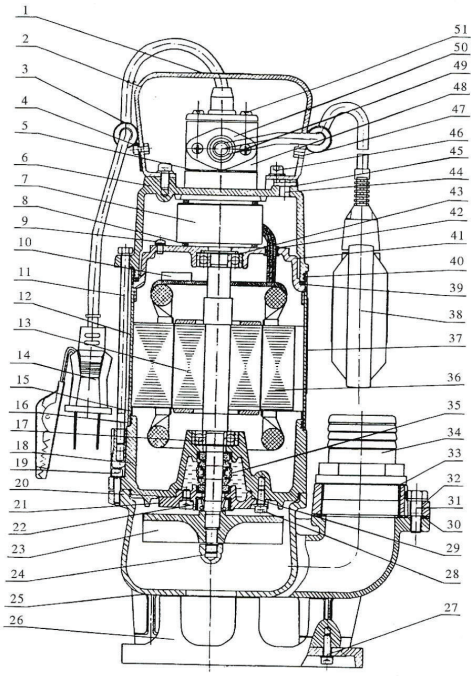
WORKING PRINCIPLE

V pumps are SUBMERSIBLE VORTEX PUMPS,for dirty water,designed mainly for domestic use and industrial use.Their operating principle is that of a centrifugal pump with a retracted VORTEX impeller.A large sized ring chamber with a threaded delivery opening is machined in the pump body and closed by a cover, housing the suction opening, which is shaped to prevent suspended solid over a certain size from entering the pump.Since the impeller is retracted with respect to the cover,water entering the front chamber lying between these two components assumes a vortex motion and is centrifuged into the ring chamber,leaving the pump via the delivery opening.

PUMP INSTALLATION AND APPLICATIONS

V pumps are designed to lift dirty water which is not chemically aggressive to the pump components.In all cases where suspended solids up to ϕ30mm have to be dealt with. recommended applications therefore include draining flooding in confined areas such as basements and garages ,and also pumping domestic waste and the disposal of waste water, containing fibrous matter and is also widely used in many factories.These pumps are easy to install and dependable when used automatically in fixed installations. A purposely built pit with minimum dimensions 450x450x450h mm is recommended for fixed installations,to provide total drainage and allow correct operation of the float switch. This system automatically starts the pump when the fluid reaches a preset level,stopping it once the fluid has been emptied.Installing a suitable non-return valve on the delivery pipe prevents reverse flow when the pump stops.

DIAGRAM



N.	DESCRIPTION	N.	DESCRIPTION	N.	DESCRIPTION	N.	DESCRIPTION
1	Warning label	14	Source line	27	Screw	40	"O" ring
2	Handle	15	Fan-slice	28	Screw	41	Cover
3	line protector	16	"O" ring	29	"O" ring	42	Line protector
4	Hexagon nut	17	Bearing	30	Washer	43	Spring
5	Tees washer	18	Jointing support	31	Screw	44	Screw
6	Capacitor cover	19	Screw	32	Connecting screw	45	"O" ring
7	Capacitor	20	Screw	33	"O" ring	46	Screw
8	"O" ring	21	Oil cylinder cover	34	Outlet jointing	47	Screw
9	Grounding screw	22	Oil seal	35	Mechanical seal	48	Tees
10	Thermal protector	23	Impeller	36	Stator	49	Self-taping screw
11	Screw	24	Nut	37	Label	50	Rubber
12	Machine frame	25	Pump body	38	Floating switch	51	Screw
13	Rotor	26	Chassis	39	Square section washer		

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