

1VS/2VS

Submersible Sewage Pump

1½" & 2" NPT Discharge, 1¾" & 2" Solids Handling



Vortex submersible sewage pumps for simplex and duplex installations in small lift stations, drainage systems or raw water applications requiring solids handling capability of 1¾" and 2" diameter. Made specifically for: homes and farms, mobile home parks and motels, schools and hospitals, municipal package systems, industrial treatment systems and dewatering applications

MOTOR INFORMATION

General:

Class "F" insulation
Air-filled design

Single Phase:

Built-in automatic reset overload
115 V – .5 HP
230 V – .5-1 HP

Three Phase:

Overloads required in control panel
230 V – .5-1.5 HP
460 V – .5-1.5 HP

1VS has 1½" discharge and handles 1¾" solids.

2VS has 2" discharge and handles 2" solids.

Capacities: to 130 U.S. GPM (41 m³/h).

Total heads: to 39 feet TDH (14 m).

Temperature: 104°F (40°C) continuous;
140°F (60°C) intermittent.

Maximum submergence to 17 feet (5 m).

Continuous duty rated, non-overloading motor.

Casing: Corrosion resistant AISI 304 SS designed for long lasting performance.

Impeller: AISI type 304 stainless steel construction; vortex design.

Mechanical Seal: Silicon carbide sealing faces; all metal components of AISI type 300 stainless steel running in protected oil chamber.

Elastomers: BUNA-N

Construction: Pump support feet, motor shell and lifting handle, constructed of AISI type 304 series stainless steel.

Shaft: AISI type 304 stainless steel high strength pump shaft with keyed and locking cap screw impeller fastening.

Discharge: 1½" and 2" NPT for horizontal connection to rigid, flexible or guide rail piping connection.

Power cord is 20 feet long.

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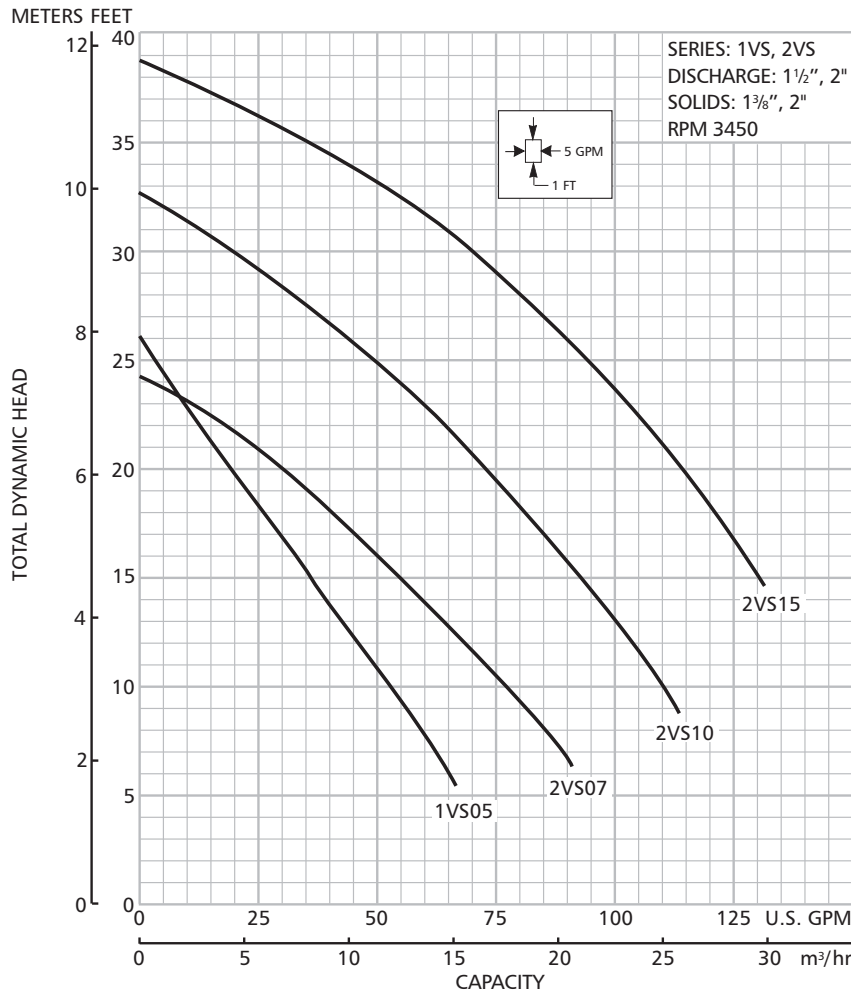
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PERFORMANCE CURVE



MOTOR FEATURES

Single phase: 60 Hz, 3450 RPM, ½ HP, 115 V; ½ to 1 HP, 230 V.

Three phase: 60 Hz, 3450 RPM, ½ to 1½ HP, 230 and 460 V.

Non-overloading.

Air-filled, class F insulated motor.

Thermal overload protection: built-in with automatic reset on single phase, 115 V and 230 V models.

Three phase models require external overload in panel.

Power cord: 20 feet long. Single phase 115 V and 230 V models are supplied with molded NEMA three prong grounding plug. 115 V models include a capacitor box built into the cord assembly. Three phase models are supplied with bare leads.

Float controls: optional, see accessory section for simplex or duplex system requirements.



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MODEL INFORMATION

Series	HP	Volts	Phase	Max. Amps	RPM	Cord Length	Discharge Connection	Solids	Weight (lbs.)
1VS0511	½	115	1	9.8	3450	20'	1½"	1¾"	22
1VS0512		230		4.2					
1VS0532		460	3	2.3					
1VS0534				1.2					
2VS0712	¾	230	1	5.4			30		
2VS0732			3	3.4					
2VS0734		460		1.7				25	
2VS1012	1	230	1	7.0			34		
2VS1032			3	4.4					
2VS1034		460		3				2.2	
2VS1532			1½					230	5.6
2VS1534	460	2.8		32					

COMPONENTS

Component	Material
Pump body and motor casing	Stainless steel (AISI 304)
Impeller	Stainless steel (AISI 304)
Lower mechanical seal	Silicon carbide/silicon carbide
Upper lip seal	Nitrile rubber
Motor shaft	Stainless steel (AISI 304)
Handle	Nylon



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DIMENSIONS

Series	HP	Phase	Dimensions in inches (mm)			Discharge Size	Wt. (lbs.)
			H	H1	L		
1VS	½	3	15¼ (386)	3½ (88)	7½ (193)	1½"	20
		1					22
2VS	¾	3	17 (433)	4¾ (111.5)	7¾ (198)	2"	25
		1	17¾ (453)				30
	1	3	18⅝ (473)				30
		1					34
	1½	3	18⅝ (473)				32
		3					32

