

Vertical Multi-Stage Pumps

Vertical Multi-Stage Pumps are available in options from 5 to 500 GPM with all 316 stainless steel hydraulics for superior durability, efficiency, and performance. A small footprint, premium motor, and rugged components ensure long operating life to provide a water pumping solution in nearly any tough application.



Vertical Multi-Stage Pump Details

STANDARD FEATURES & BENEFITS - ALL MODELS

- » All 316 stainless steel wetted components for superior durability, efficiency, and performance curve over a wide variety of applications
- » Rugged NEMA motor mounting with oversized thrust bearing ensures long operating life in the toughest jobs (special, high-thrust motor bearing not required)
- » Removable stainless steel seal plate with jack screw taps provided for ease of service
- » In-line suction and discharge connections with round ANSI flanges fit widest range of applications and provides for a convenient, compact installation with a small footprint
- » NEMA standard motors; TEFC enclosures, 1 & 3 phase, 60 Hz voltages available with all 3-phase motors of premium efficiency design and inverter duty rated

GENERAL PUMP SPECIFICATIONS

- » Flow range: 5 to 500 GPM (20 to 2,000 L/Min)
- » Head range: Up to 750 feet (230 M)
- » Maximum working pressure: Up to 460PSI (see flange data chart)
- » Pump casing/hydraulics material: AISI 316/AISI 316 (models T01-20VR), cast iron/AISI 316 (model T30-95VR)
- » Mechanical seal: graphite (stationary) silicon carbide (rotating), EPDM (elastomers)
- » Liquid temperature: +14 °F (-10 °C) to +248 °F (+120 °C)
- » Clockwise rotation (looking at the pump from the top down)
- » Round ANSI flange standard
- » 3600 RPM TEFC motor standard

APPLICATIONS

Water Supply and Pressure Boosting

- » Pressure boosting in buildings
- » Booster stations
- » Pump packages
- » Water treatment
- » Filtration systems
- » Reverse osmosis systems

Light Industry

- » Commercial washers
- » Firefighting systems
- » Machine coolant recirculation
- » Car wash systems

Irrigation and Agriculture

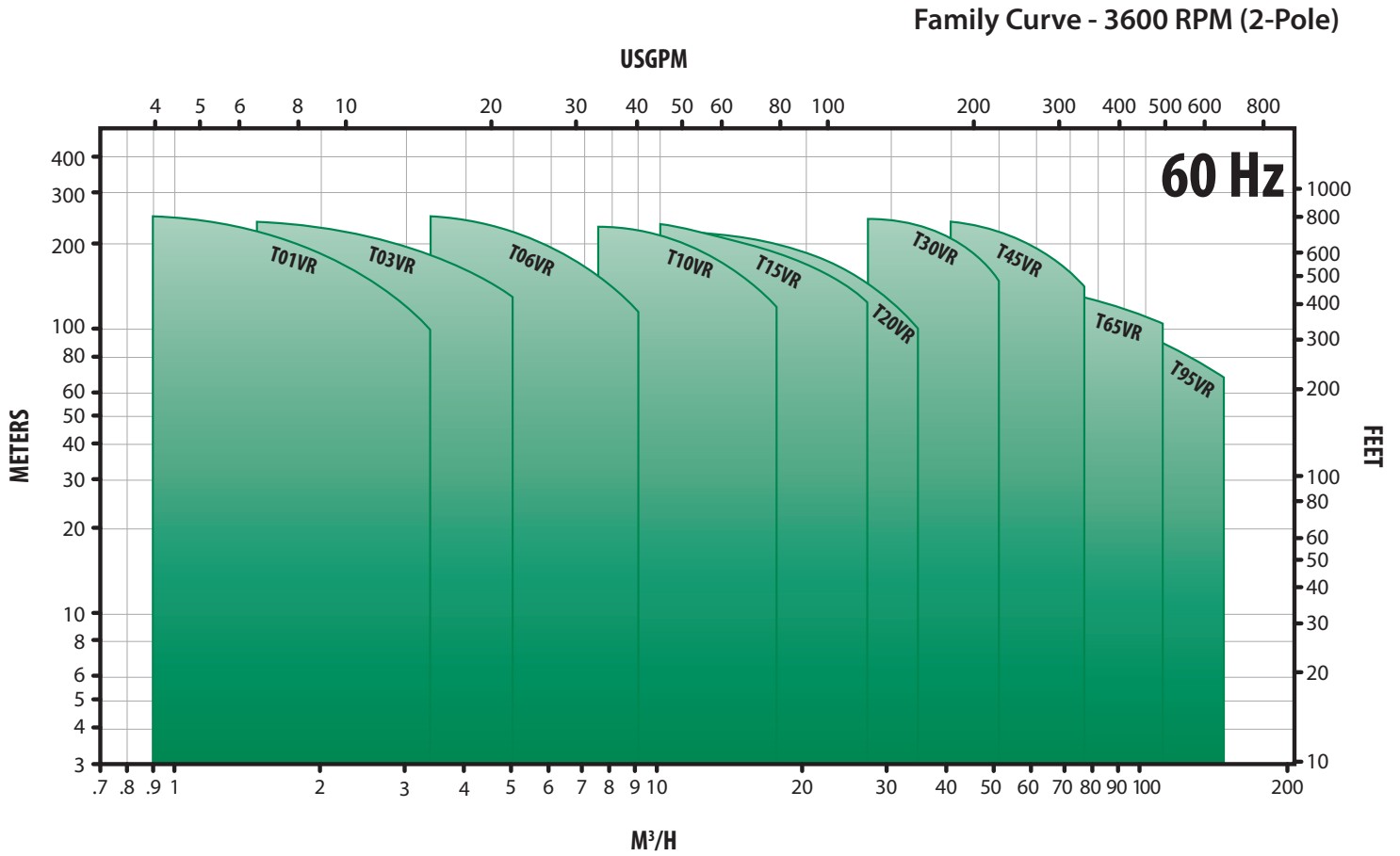
- » Drip irrigation
- » Sprinkler irrigation

Heating, Ventilation, and Air Conditioning (HVAC)

- » Cooling towers
- » Temperature control
- » Refrigeration
- » Heating systems
- » Boiler feed
- » Water recirculation



Vertical Multi-Stage Family Curve



ENERGY RATING

VR Series	Basic Model	PEI _{cl} Value	Energy Rating
3600 RPM (2-Pole)	T06VR	0.93	7
	T10VR	0.92	8
	T15VR	0.95	5
	T20VR	0.97	3
	T30VR	0.93	7
	T45VR	0.95	5
	T65VR	0.95	5
	T95VR	0.96	4

Specifications

Flange Data

Series	Flange Pipe Size (in.)	Pump Max Rating (PSI)	Select the Companion Flange Based on the Maximum Potential System Pressure (Incoming + Max PSI from the Pump)		
			ANSI Flange	Flange Size (in.)	Pressure Rating (PSI)
T01VR (all stage counts)	1.25"	375	ANSI 150 steel flange	1.25"	260
			ANSI 300 steel flange	1.25"	750
T03-T06VR (all stage counts)	1.25"	375	ANSI 150 steel flange	1.25"	260
			ANSI 150 steel flange	1.50"	260
			ANSI 300 steel flange	1.25"	750
			ANSI 300 steel flange	1.50"	750
T10-T20VR (all stage counts)	2.00"	375	ANSI 150 steel flange	2.00"	260
			ANSI 300 steel flange	2.00"	750
T30VR, -1-2-3 stages	2.50"	230	ANSI 150 steel flange	2.50"	260
T30VR, -4-5-6-7-8 stages	2.50"	460	ANSI 300 steel flange	2.50"	750
T45VR, -1-2 stages	3.00"	230	ANSI 150 steel flange	3.00"	260
T45VR, -3-4-5-6-7 stages	3.00"	460	ANSI 300 steel flange	3.00"	750
T65-95VR, -1-2 stages	4.00"	230	ANSI 150 steel flange	4.00"	260
T65-95VR, -3-4-5 stages	4.00"	360	ANSI 300 steel flange	4.00"	750

NOTE: Class 125 and Class 250 flanges and flanged fittings are made from cast iron while Class 150 and Class 300 are ductile iron, steel, or stainless steel. However, the bolting pattern is the same for both Class 125 and 150 so, regardless of material they will bolt together, as is also the case for Class 250 and 300.

NOTE: T30-T45-T65-T95VR series pumps come equipped with two rotatable steel flanges with oval-shaped bolt holes that enable them to fit both DIN and ANSI flanges.

NOTE: Companion flanges, nuts bolts, and gaskets are not included with pump



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