



WS_V3 Series

Model 3888V3

Submersible vortex sewage pumps

Description

Xylem's Goulds Water Technology Model 3888V3 Vortex Series sewage pumps deliver dependable solids-handling performance for wastewater applications where clogging can be a challenge. The V3 features a three-inch flanged discharge and passes solids up to two-and-one-half-inches. These "Complete. Reliable. Blue." pumps combine rugged construction, advanced vortex technology, and a dual mechanical seal system to help reduce maintenance, extend service life, and support reliable operation in a wide range of light commercial and industrial applications.

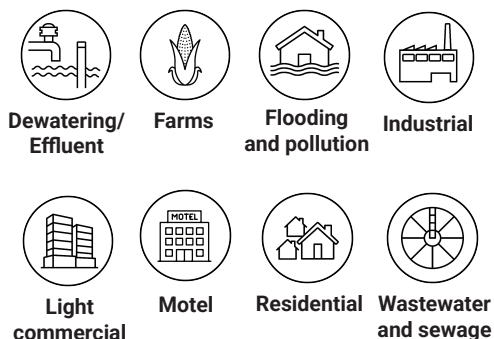
Features and benefits

- **Vortex technology:** The recessed impeller design keeps solids away from the impeller blades, reducing the risk of clogging and unplanned downtime, resulting in improved reliability and lower maintenance and service costs.
- **Dual mechanical seal system:** Standard on every model, the dual mechanical seal system incorporates premium sealing-face materials and corrosion-resistant stainless-steel components to enhance wear resistance, extend pump life, and reduce downtime.
- **Flexible discharge options:** Featuring a standard horizontal discharge and an optional vertical discharge adapter, these pumps can be easily configured to meet a variety of installation and piping requirements.
- **Durable cast iron construction:** Built with a heavy-duty cast iron motor housing, volute, and impeller, this pump is designed to withstand harsh wastewater environments while providing dependable, long-lasting performance.
- **300 Series stainless-steel shaft:** The keyed stainless-steel shaft and fasteners resist corrosion and wear for extended service life.
- **Oil-filled seal chamber design:** Oil-filled seal chamber: Independently positioned upper and lower shaft seals separated by an oil-filled chamber provide added protection against contamination and extend seal life.
- **Temporary dry-run capability:** Designed to withstand short periods of dry operation without damaging the seals or motor, providing added protection and operational efficiency.
- **Warranty:** Our competitive standard warranty is three (3) years. GPDA members enjoy four (4) years of coverage.

Applications

Used in a variety of residential, commercial and industrial applications such as:

- Sewage systems, flood and pollution control, dewatering/effluent, farms, hospitals, trailer courts and motels



Specifications

Pump:

- **Maximum solid size:** 2.5"
- **Discharge size:** 3", 125 # ANSI flange
- **Maximum capacity:** 450 GPM
- **Maximum total head:** 38 feet
- **Fasteners:** 300 Series stainless-steel
- **Power cord:** 20'
- **Standard outer seal:** Silicon carbide/Silicon carbide

Motor:

- **Maximum ambient temperature:** 104°F (40°C) continuous duty, 130°F (55°C) intermittent duty
- Rated for continuous duty when fully submerged
- **Insulation:** Class F
- 60 Hertz
- Single row ball bearings
- 300 Series stainless-steel keyed shaft

Single-phase:

- 1.5 – 5 HP; 208 and 230 volts
- Built-in thermal overloads with automatic reset
- Built-in capacitors

Three-phase:

- 1.5 – 5 HP; 200, 230, 460 and 575 volts
- Class 10 overload protection must be provided in control panel

Motors

- **Fully submerged in oil-filled chamber:** High grade turbine oil surrounds motor for more efficient heat dissipation, permanent lubrication of bearings and mechanical seal for complete protection against outside environment.
- **Insulation:** Class F
- **Designed for continuous operation:** Pump ratings are within the motor manufacturer's recommended working limits and can be operated continuously without damage when fully submerged.
- **Bearings:** Upper and lower heavy duty ball bearing construction for precision positioning of parts and to carry thrust loads.

- **Power cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Twenty (20) foot standard with optional lengths available.
- **O-ring:** Assures positive sealing against contaminants and oil leakage.

Agency listings



Tested to UL 778 and CSA C22.2 No. 108 Standards
By Canadian Standards Association

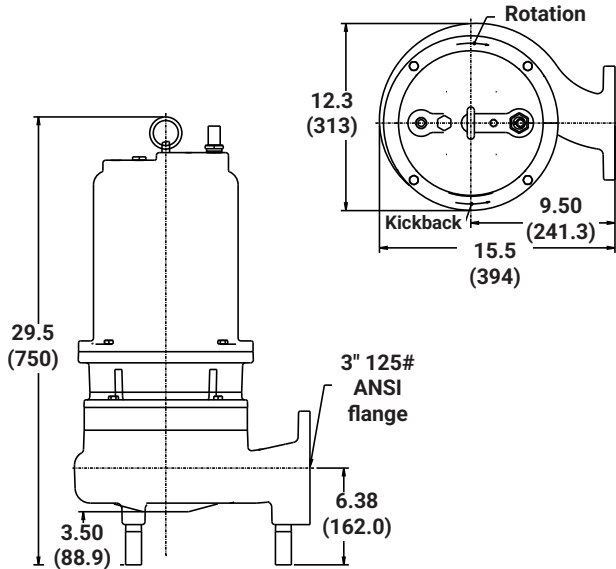
Model and motor information

Order number	HP	Phase	Volts	RPM	Impeller diameter in. (mm.)	Maximum amps.	Locked rotor amps.	KVA code	Power cable size	Full Load motor efficiency %	Resistance		Weight lbs. (kgs.)
											Start	Line-Line	
WS1518V3	1.5	1	208	1750	4.8 (121.9)	15.0	50.8	B	14/3	80	1.1	0.9	215 (98)
WS1512V3			230			12.5	29.5	E		70	1.4	1.8	
WS1538V3		3	200			11.5	40.9	H	14/4	81	N/A	1.7	213 (97)
WS1532V3			230			10.0	40.0	F		83		2.3	
WS1534V3			460			5.0	20.0	F		83		9.3	
WS1537V3			575			4.0	14.4	H		74		14.8	
WS2018V3	2	1	208		5.31 (134.9)	19.0	50.8	B	14/3	80	1.1	0.9	225 (102)
WS2012V3			230			16.0	36.9	D		75	1.4	1.5	
WS2038V3		3	200			11.5	40.9	H	14/4	81	N/A	1.7	223 (101)
WS2032V3			230			10.0	40.0	F		83		2.3	
WS2034V3			460			5.0	20.0	F		83		9.3	
WS2037V3			575			4.0	14.4	H		74		14.8	
WS3018V3	3	1	208		5.5 (139.7)	25.5	50.8	B	10/3	80	1.1	0.9	229 (104)
WS3012V3			230			21.5	46.4	C		79	1.0	1.0	
WS3038V3		3	200			15.2	53.8	G	10/4	85	N/A	1.3	224 (102)
WS3032V3			230			12.0	49.5	H	14/4	83		1.9	
WS3034V3			460			6.0	24.8	H		83		7.5	
WS3037V3			575			4.8	17.3	G		78		11.6	
WS5012V3	5	1	230		6.5 (165.1)	26.5	57.7	A	10/3	80	1.0	0.8	235 (107)
WS5038V3		3	200			18.8	73.9	F	10/4	84	N/A	0.9	230 (104)
WS5032V3			230			16.4	63.6	E		85		1.2	
WS5034V3			460			8.2	31.8	E	14/4	85		4.8	
WS5037V3			575			6.8	22.8	E		80		7.4	

Dimensions are in inches (millimeters). Weights are in pounds (kilograms). This information is subject to change without notice. Do not use for construction purposes.

Dimensions

(All dimensions are in inches (millimeters). Do not use for construction purposes.)



Fittings

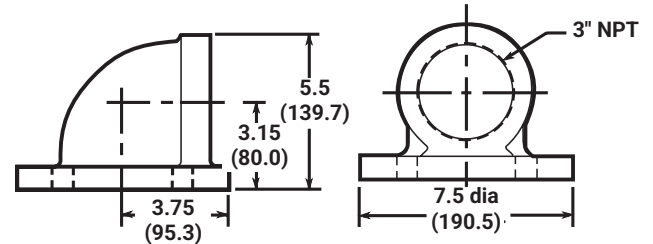
Pipe connectors

Short radius elbow

- Cast iron construction
- 125 lb. ANSI rated flange at pump end
- 3" NPT threaded connection for discharge pipe

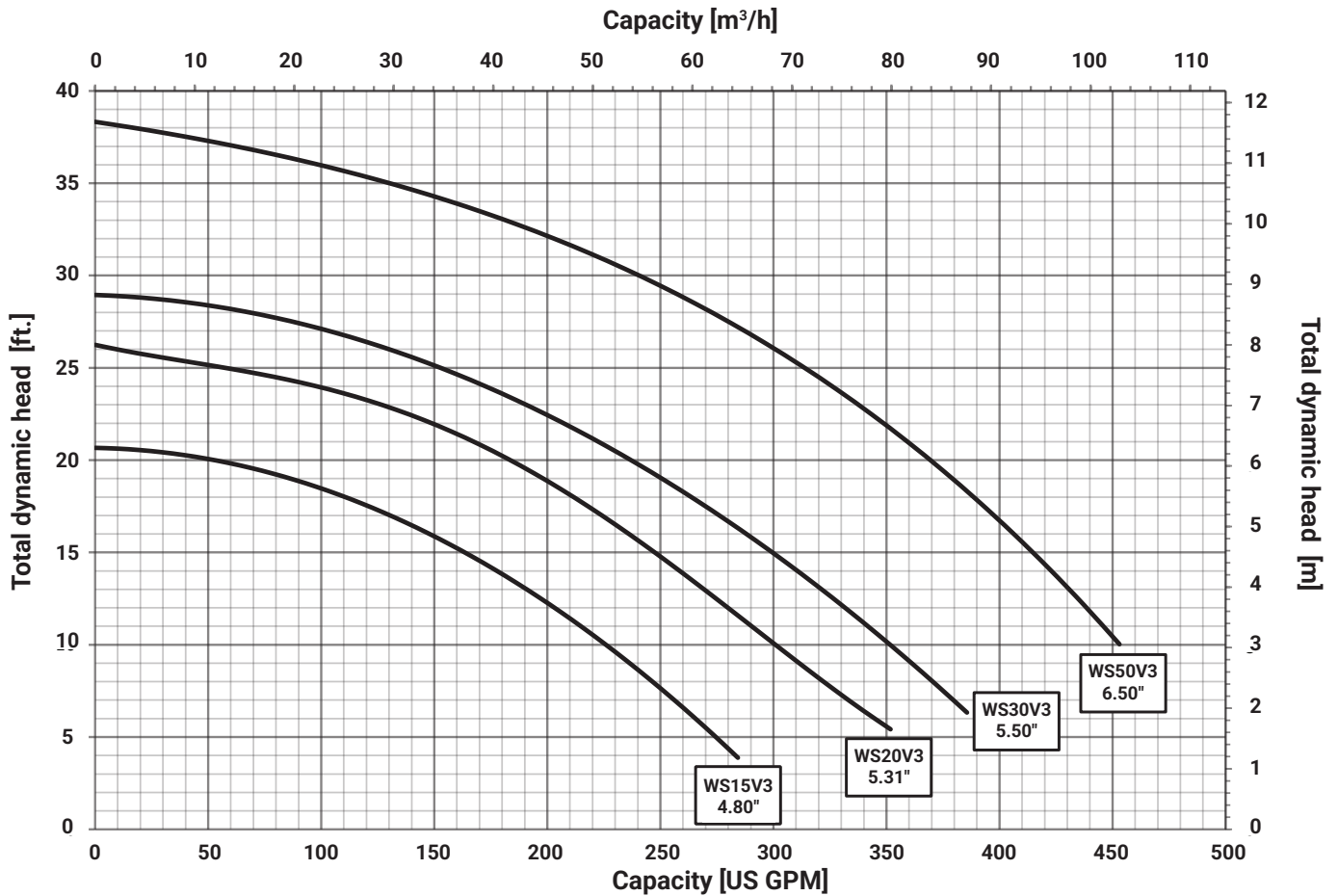


Flange size	Order number	Used with
3"	A1-5	3", 125# ANSI flange



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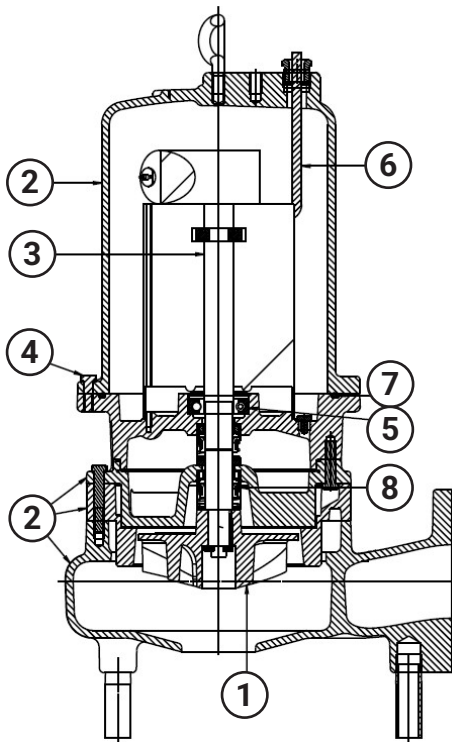
Performance curves



Application data and construction details

Maximum solid size		2.5"
Minimum casing thickness		5/16"
Casing corrosion allowance		1/8"
Maximum working pressure		30 PSI
Maximum submergence		50 feet
Minimum submergence		Fully submerged for continuous operation
		6" below top of motor for intermittent operation
Maximum environmental temperature		104°F (40°C) continuous operation, 130°F (55°F) intermittent operation
Power cable – Type (see motor Information for AWG data/size.)		Type SJTOW: single-phase, 1.5 and 2 HP
		Type STOW: single-phase, 1.5 – 3 HP and 5 HP, 460 V
		Type STOW: single-phase, 3 and 5 HP, three-phase 5 HP, 230 V
Motor cover, bearing housing, seal housing, casing		Gray cast iron – ASTM A48, Class 30
Impeller – standard		Gray cast iron – ASTM A48
Motor shaft		AISI 300 Series stainless-steel
Motor design		NEMA 56 Frame, oil filled with Class F Insulation
Motor overload protection		Single-phase: on winding thermal overload protection auto reset
		Three-phase: requires Class 10 overloads in control panel
External hardware		300 Series stainless-steel
Impeller type		Multivane vortex
Oil capacity – seal chamber		1.5 quarts
Oil capacity – motor chamber		1.5 – 5 HP single- and three-phase: 7 quarts
Mechanical seals – standard	Upper	Carbon/Ceramic, Type 21
	Lower	Silicon carbide/Silicon carbide, Type 31
Mechanical seals – optional lower		Silicon carbide/Tungsten carbide, Type 31

Materials of construction



Item no.	Part name		Material			
			Standard		Optional	
1	Impeller, vortex		1003			
2	Castings		1003			
3	Shaft-keyed		300 Series SS			
4	Fasteners		300 Series SS			
5	Ball bearings		Steel			
6	Power cable		STOW, 20 feet		Additional lengths	
7	O-ring		BUNA-N			
8	Outer mech. seal	Service	Rotary	Stationary	Elastomers	Metal parts
	OPT	Heavy duty	Silicon Carbide	Tungsten Carbide	BUNA-N	300 Series SS
	STD	Mild abrasives	Silicon carbide		BUNA-N	300 Series SS
Material code			Engineering standard			
1003			Cast iron – ASTM A48 Class 30			

Standard panel options

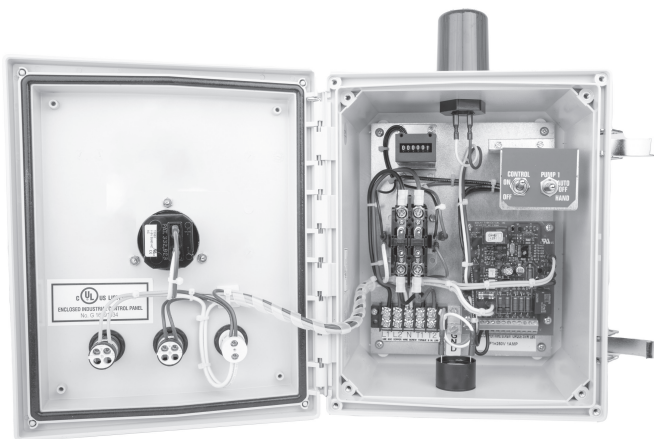
Pump	HP	Phase	Voltage	Amps	Simplex panel	Duplex panel
WS1518V3	1.5	1	208	15	C4S10020	C4D10020
WS1512V3	1.5	1	230	12.5	C4S10020	C4D10020
WS1538V3	1.5	3	200	11.5	C4S31016	C4D31016
WS1532V3	1.5	3	230	10	C4S31016	C4D31016
WS1534V3	1.5	3	460	5	C4S34063	C4D34063
WS1537V3	1.5	3	575	4	C4S34063	C4D34063
WS2018V3	2	1	208	19	C4S10020	C4D10020
WS2012V3	2	1	230	16	C4S10020	C4D10020
WS2038V3	2	3	200	11.5	C4S31016	C4D31016
WS2032V3	2	3	230	10	C4S31016	C4D31016
WS2034V3	2	3	460	5	C4S34063	C4D34063
WS2037V3	2	3	575	4	C4S34063	C4D34063
WS3018V3	3	1	208	25.5	C4S12136	C4D12127
WS3012V3	3	1	230	21.5	C4S12136	C4D12127
WS3038V3	3	3	200	15.2	C4S31016	C4D31016
WS3032V3	3	3	230	12	C4S31016	C4D31016
WS3034V3	3	3	460	6	C4S34063	C4D34063
WS3037V3	3	3	575	4.8	C4S34063	C4D34063
WS5012V3	5	1	230	26.5	C4S12136	C4D12836
WS5038V3	5	3	200	18.8	C4S31620	C4D31620
WS5032V3	5	3	230	16.4	C4S31620	C4D31620
WS5034V3	5	3	460	8.2	C4S36310	C4D36310
WS5037V3	5	3	575	6.8	C4S36310	C4D36310



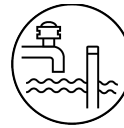
Series "Core 4" Control Panels provide outstanding, automatic, liquid level control to help manage and maintain pump operation for a variety of effluent, sewage, and water transfer applications.

Features

- Rugged, NEMA 4X construction withstands even the most severe weather conditions and prevents corrosion
- Solid-state control board displays float status for ease of installation and trouble-shooting
- Hinged door with lockable stainless-steel latch for safe operation indoors and out
- Through-door mounted alarm test switch ensures proper operation of the alarm circuit without the need to open the panel
- Panel can be wired for a single power feed and control circuit, or the control circuit can be wired to a separate power supply to ensure alarm integrity in case of a tripped pump breaker.
- Top-mounted, high intensity, flashing red light provides 360° visibility
- Auxiliary alarm contacts provided for remote alarm connection
- Field wiring diagram, panel schematic and installation instructions included
- Entire unit is UL and CUL listed



Applications



Dewatering effluent



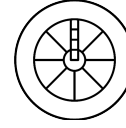
Flooding and pollution



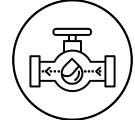
Light commercial



Residential



Wastewater and sewage



Water transfer

Product specifications

- Hand-off-automatic (H-O-A) pump selection switch(es)
- On-off control circuit switch
- Float switches:
 - Normally open (pump down) mechanical float switches with 20' cords
 - Simplex panels (three switches)
 - Duplex panels (four switches)
- Duplex panels include alternation
- NEMA 4X:
 - Flashing red alarm light
 - Fiberglass enclosure with gasketed, hinged door and stainless-steel hardware
 - Alarm horn (95db)
- Solid state printed circuit control board with float indicator lights
- Auxiliary alarm dry contact
- Elapsed time meter(s)
- Cycle counter(s)
- Single-phase:
 - Field adjustable for 115/208/230 V, 60Hz
- Three-phase:
 - Field adjustable for 208/230/460/575 V, 60 Hz
 - 115 V control circuit transformer
 - Adjustable motor overload protectors

Learn more
about Model
3888V3
vortex pumps



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