



WS_V4 Series

Model 3888V4

Submersible vortex sewage pumps

Description

Xylem's Goulds Water Technology Model 3888V4 Vortex Series sewage pumps deliver dependable solids-handling performance for wastewater applications where clogging can be a challenge. The 3888V4 offers a four-inch flanged discharge and handles solids up to three 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 residential, 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:** 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, light commercial and industrial applications such as:

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



Dewatering/
Effluent



Farms



Flooding
and pollution



Industrial



Light
commercial



Motel



Residential



Wastewater
and sewage

Specifications

Pump:

- **Maximum solid size:** 3"
- **Discharge size:** 4", 125# ANSI flange
- **Maximum capacity:** 618 GPM
- **Maximum total head:** 29 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:

- 2 – 5 HP; 208 and 230 volts
- Built-in thermal overloads with automatic reset
- Built-in capacitors

Three-phase:

- 2 – 7.5 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

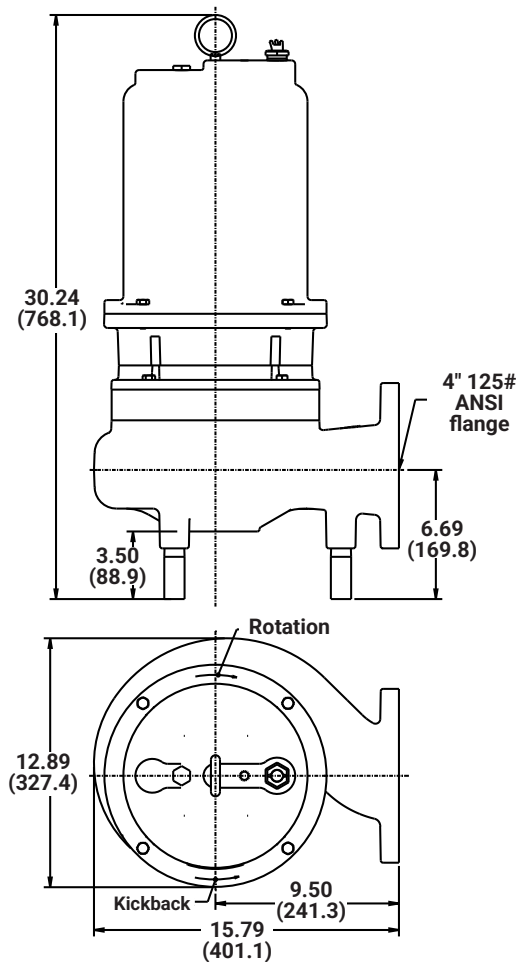
Model and motor information

Order number	HP	Phase	Volts	RPM	Impeller dia. in. (mm)	Maximum amps.	L.R. amps.	KVA code	Power cable size	F.L. motor efficiency %	Resistance		Wt. lbs (kgs)
											Start	Line-Line	
WS2018V4	2	1	208	1750	5.75 (168.40)	20.3	50.8	B	14/3	80	1.1	0.9	227 (103)
WS2012V4			230			17.3	36.9	D		75	1.4	1.5	
WS2038V4		3	200			13.3	40.9	H	14/4	81	N/A	1.7	
WS2032V4			230			11.6	40.0	F		83		2.3	
WS2034V4			460			5.8	20.0	F		83		9.3	
WS2037V4			575			4.6	14.4	H		74		14.8	
WS3018V4	3	1	208		5.94 (150.88)	25.5	50.8	B	10/3	80	1.1	0.9	255 (116)
WS3012V4			230			21.5	46.4	C		79	1.0	1.0	
WS3038V4		3	200			16.6	53.8	G	14/4	85	N/A	1.3	232 (105)
WS3032V4			230			14.4	49.5	H		83		1.9	
WS3034V4			460			7.2	24.8	H		83		7.5	
WS3037V4			575			5.8	17.3	G		78		11.6	
WS5012V4	5	1	230		6.16 (156.46)	26.5	57.7	A	10/3	80	1.0	0.8	240 (109)
WS5038V4			200			19.1	73.9	F		84		0.9	
WS5032V4		3	230			16.6	63.6	E	14/4	85	N/A	1.2	237 (108)
WS5034V4			460			8.3	31.8	E		85		4.8	
WS5037V4			575			6.6	22.8	E		80		7.4	
WS7532V4			230			23.0	105.0	G		83		0.7	
WS7534V4	7.5	3	460		6.75 (171.45)	11.5	52.5	G	10/4	83	N/A	2.8	253 (115)
WS7537V4			575			9.2	42.0	E		84		4.4	

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.)

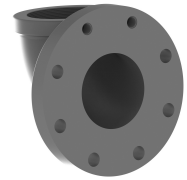


Fittings

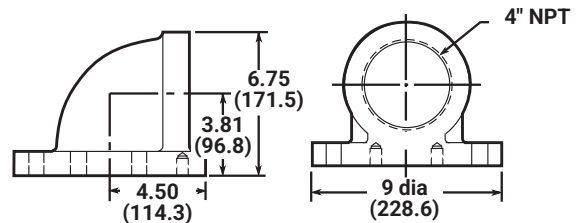
Pipe connectors

Short radius elbow

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

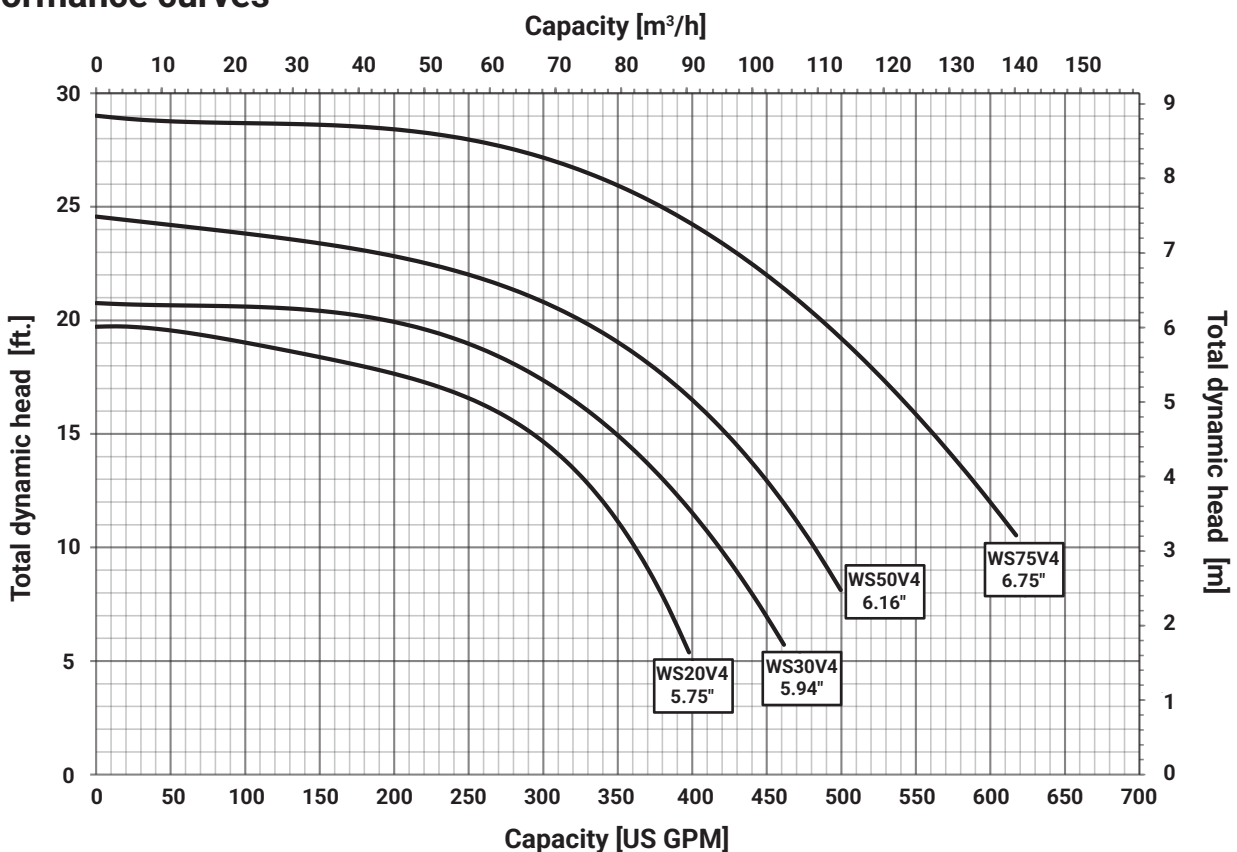


Flange size	Order number	Used with
4"	A1-6	4", 125# ANSI flange



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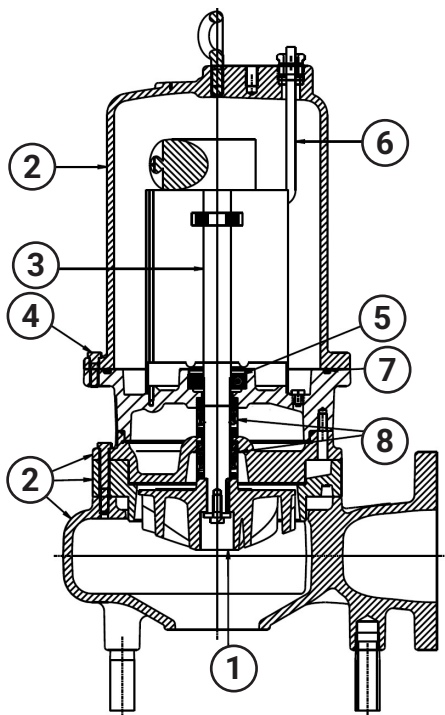
Performance curves



Application data and construction details

Maximum solid size		3"
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		40°C (104°F) continuous operation, 55°C (130°F) intermittent operation
Power cable – type (see motor information for AWG data/size.)		Type SJTOW: single-phase, 2 HP
		Type STOW: single-phase, 2 – 3 HP and 5 HP, 460 V
		Type STOW: single-phase, 3 and 5 HP, three-phase 5 HP, 230 V and 7.5 HP
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 with pump out vanes on back shroud
Oil capacity – seal chamber		1.5 quarts
Oil capacity – motor chamber		2 – 5 HP single- and three-phase: 7 quarts
		7.5 HP three-phase: 6.5 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	1003	-
2	Castings	1003	-
3	Shaft-threaded	400 Series SS	-
4	Fasteners	300 Series SS	-
5	Ball bearings	Steel	-
6	Power cable Seal sensor cable	STOW, 20 feet	Additional lengths
7	O-ring	BUNA-N	-
8	Outer mech. seal	Service	Rotary
		Stationary	Elas-tomers
		STD	Mild abrasives
		Silicon carbide	BUNA-N
		300 Series SS	
Material code		Engineering standard	
1003		Cast iron - ASTM A48 Class 30	

Standard panel options

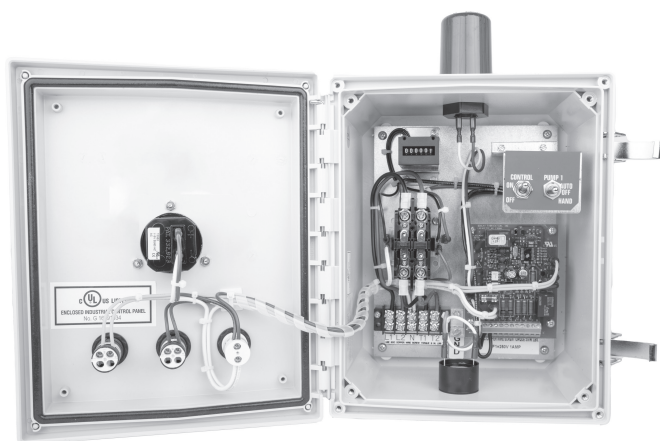
Pump	HP	Phase	Voltage	Amps	Simplex panel	Duplex panel
WS2018V4	2	1	208	20.3	C4S12136	C4D12127
WS2012V4	2	1	230	17.3	C4S10020	C4D10020
WS2038V4	2	3	200	13.3	C4S31016	C4D31016
WS2032V4	2	3	230	11.6	C4S31016	C4D31016
WS2034V4	2	3	460	5.8	C4S34063	C4D34063
WS2037V4	2	3	575	4.6	C4S34063	C4D34063
WS3018V4	3	1	208	25.5	C4S12136	C4D12836
WS3012V4	3	1	230	21.5	C4S12136	C4D12127
WS3038V4	3	3	200	16.6	C4S31620	C4D31620
WS3032V4	3	3	230	14.4	C4S31016	C4D31016
WS3034V4	3	3	460	7.2	C4S36310	C4D36310
WS3037V4	3	3	575	5.8	C4S34063	C4D34063
WS5012V4	5	1	230	26.5	C4S12136	C4D12836
WS5038V4	5	3	200	19.1	C4S31620	C4D31620
WS5032V4	5	3	230	16.6	C4S31620	C4D31620
WS5034V4	5	3	460	8.3	C4S36310	C4D36310
WS5037V4	5	3	575	6.6	C4S36310	C4D36310
WS7532V4	7.5	3	230	23	C4S32025	C4D32025
WS7534V4	7.5	3	460	11.5	C4S31016	C4D31016
WS7537V4	7.5	3	575	9.2	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



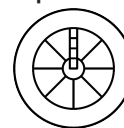
Flooding and
pollution



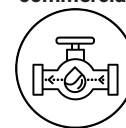
Light
commercial



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
3888V4
vortex pumps



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