



Goulds Pumps

WS_D3 Series Model 3888D3

Submersible Sewage Pump



GGOULDS PUMPS

FEATURES

- Impeller: Cast iron, ASTM A48, Class 30, two vane semi-open, non-clog design with pump out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller is an option.
- Casing: Heavy duty gray cast iron, ASTM A48, Class 30. Volute type casing with 3", 125#, ANSI flanged, horizontal discharge. Compatible with A10-30 cast iron or A10-30B cast iron and brass (non-sparking) guide rail assembly.
- Dual Mechanical Seals: Silicon carbide vs. silicon carbide outer seal and ceramic vs. carbon inner seal, stainless steel metal parts, BUNA-N elastomers. Upper and lower shaft seals are positioned independently and are separated by an oil-filled chamber.
- **Shaft**: 300 series stainless steel keyed design.
- Fasteners: 300 series stainless steel.
- Capable of running dry temporarily without damage to seals or motor.

Goulds Pumps is a brand of ITT Water Technology, Inc. - a subsidiary of ITT Industries, Inc.

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GOULDS PUMPS Wastewater

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, Motels

SPECIFICATIONS

Pump:

Maximum solid size: 2.5"

• Discharge size: 3", 125 # ANSI flange

Maximum capacity: 470 GPM
Maximum total head: 65 feet
300 Series stainess steel fasteners

• 20' Power cord

Standard silicon carbide/silicon carbide outer seal

Motor:

 Maximum ambient temperature: 104° F (40° C) continuous duty, 140° F (60° 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.
- Class F insulation.
- 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. 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 22.2 108 Standards By Canadian Standards Association File #LR38549

US Goulds Pumps is ISO 9001 Registered.

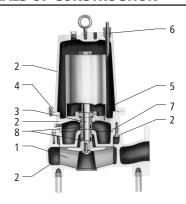
MODEL AND MOTOR INFORMATION

Order No.	НР	Phase	Volts	RPM	Impeller	Maximum	L.R.	KVA	Power	F.L. Motor	Res	istance	Wt.
Order No.	пг	riiase	VOILS	KEIVI	Dia. (in.)	Amps	Amps	Code	Cable	Efficiency %	Start	Line-Line	(lbs.)
WS1518D3M	1.5	1	208	1750	5.25	15.0	50.8	В	14/3	80	1.1	0.9	192
WS1512D3M			230			12.5	29.5	E		70	1.4	1.8	192
WS1538D3M		3	200			11.5	40.9	Н	14/4	81	NA	1.7	190
WS1532D3M			230			10.0	40.0	F		83		2.3	
WS1534D3M			460			5.0	20.0	F		83		9.3	
WS1537D3M			575			4.0	14.4	Н		74		14.8	
WS1518D3		1	208			15.0	50.8	В	14/3	80	1.1	0.9	192
WS1512D3		1	230			12.5	29.5	Е		70	1.4	1.8	192
WS1538D3	1.5		200	1750	6.50	11.5	40.9	Н	14/4	81	NA	1.7	190
WS1532D3	1.5	٦	230			10.0	40.0	F		83		2.3	
WS1534D3		3	460			5.0	20.0	F		83		9.3	
WS1537D3			575			4.0	14.4	Н		74		14.8	
WS2018D3		3	208	1750	7.00	19.0	50.8	В	14/3	80	1.1	0.9	196
WS2012D3			230			16.0	36.9	D		75	1.4	1.5	190
WS2038D3	2		200			11.5	40.9	Н	14/4	81	NA NA	1.7	194
WS2032D3			230			10.0	40.0	F		83		2.3	
WS2034D3			460			5.0	20.0	F		83		9.3	
WS2037D3			575			4.0	14.4	Н		74		14.8	
WS3018D3		1	208		7.25	25.5	50.8	В	10/3	80	1.1	0.9	205
WS3012D3			230			21.5	46.4	C		79	1.0	1.0	205
WS3038D3	3	3	200	1750		15.2	53.8	G	10/4	85	NA	1.3	200
WS3032D3			230			12.0	49.5	Н	14/4	83		1.9	
WS3034D3			460			6.0	24.8	Н		83		7.5	
WS3037D3			575			4.8	17.3	G		78		11.6	
WS5012D3	5	1	230		1750 8.00	26.5	57.7	Α	10/3	80	1.0	0.8	210
WS5038D3			200			18.8	73.9	F	10/4	84		0.9	205
WS5032D3		3	230	1750		16.4	63.6	E	10/4	85		1.2	
WS5034D3			460			8.2	31.8	Е	14/4	85	NA	4.8	
WS5037D3			575			6.8	22.8	E		80		7.4	



GOULDS PUMPS Wastewater

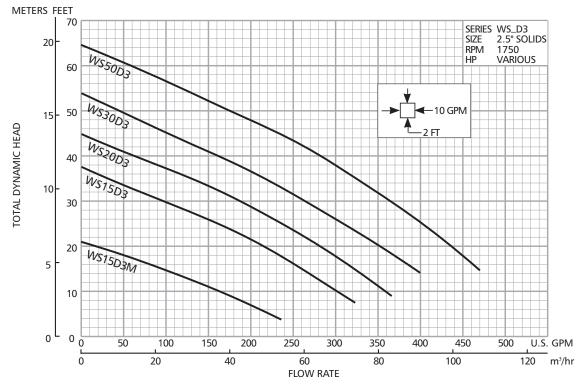
MATERIALS OF CONSTRUCTION



PERFORMANCE RATINGS (Gallons Per Minute)

Series	No. ►	WS15D3M	WS15D3	WS20D3	WS30D3	WS50D3			
	HP▶	11//2	1½	2	3	5			
F	RPM ▶	1750							
	10	160	300						
	15	90	260	320					
	20		210	280	350	435			
Total Head Feet of Water	25		160	235	310	400			
	30		100	185	265	360			
	35			130	210	325			
	40			60	160	280			
	45				100	230			
	50					170			
	55					115			
	60					60			

Item			Material					
No.	Part Name	9	Star	ndard	Optional			
1	Impeller, n	on-clog	10	003	1179			
2	Castings		10	003				
3	Shaft–keye	ed	300 S	eries SS				
4	Fasteners		300 S	eries SS				
5	Ball bearin	gs	St	eel				
6	Power cab	le	STOW,	20 feet	Additional lengths			
7	O-ring		BUN	NA-N				
	Outer Mech. Seal	Service	Rotary	Stationary	Elastomers	Metal Parts		
8	OPT	Heavy duty	Silicon Carbide	Tungsten Carbide	BUNA-N	300 Series SS		
	STD Mild abrasives		Silicon	carbide	BUNA-N	300 Series SS		
	Materia	l Code	Engineering Standard					
	100	03	Cast iron — ASTM A48 Class 30					
	117	79	Silicon bronze — ASTM C87600					





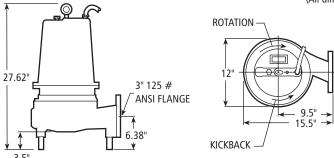
Wastewater

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				
Willimum Submergence		6" below top of motor for intermittent operation				
Maximum Environmental Temperature		40° C (104° F) continuous operation, 60° C (140° F) intermittent operation				
Davier Cable Time		Type SJTOW: single phase, 1½ and 2 HP				
Power Cable — Type (See Motor Information for AWG data/size.)		Type STOW: single phase, 1½ – 3 HP and 5 HP, 460 V				
(See Motor Information for AWG data/size.)		Type STOW: single phase, 3 and 5 HP, three phase 5 HP, 230 V				
Motor Cover, Bearing Housing, Seal Housin	g, Casing	Gray Cast Iron – ASTM A48, Class 30				
Impeller – Standard, Optional		Gray Cast Iron – ASTM A48 or Cast Bronze – ASTM B584 C87600				
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				
Wotor Overload Protection		Three phase: requires Class 10 overloads in control panel				
External Hardware		300 Series Stainless Steel				
Impeller Type		Semi-open with pump out vanes on back shroud				
Oil Capacity – Seal Chamber		1.5 quarts				
Oil Capacity – Motor Chamber		11/2-5 HP single and three phase: 7 quarts				
Mechanical Seals — Standard Upper		Carbon/Ceramic; Type 21				
iviectianicai seais — standard	Lower	Silicon Carbide/Silicon Carbide; Type 31				
Mechanical Seals – Optional Lower		Silicon Carbide/Tungsten Carbide; Type 31				

DIMENSIONS

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



GOULDS PUMPS

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