



Submersible Sewage Pump

MODEL

3888D4

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:

- Solids handling capabilities: 3 1/8" spherical maximum.
- Discharge size: 4" flanged.
- Capacities: up to 620 GPM.
- Total heads: up to 60 feet TDH.
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.

FEATURES

■ **Impeller:** Cast iron, two vane semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

■ **Casing:** Heavy duty cast iron, volute type for maximum efficiency. 4" flange conforms to 125 PSI ANSI standard. Adaptable for A10-40 slide rail system.

■ **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 tandem mounted shaft seals are positioned independently and are separated by an oil-filled

chamber. Optional **TUNGSTEN CARBIDE** outer seal available.

- **Shaft:** 300 series stainless steel, keyed design.
- **Fasteners:** 300 series stainless steel.
- Capable of running dry without damage to components.

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.

Single phase:

- 1 1/2–5 HP, 230 V, 60 Hz, 1750 RPM. Built-in overload with automatic reset. 14/3 STOW, 10/3 STOW 3 and 5 HP.

Three phase:

- 1 1/2–7 1/2 HP, 230/460 V, 60 Hz, 1750 RPM. 200 V models available 1 1/2–5 HP. Overload protection must be provided in starter unit. 14/4 STOW, 10/4 STOW 5, 7 1/2 HP, 230 V.

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 bearings 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 lengths available.

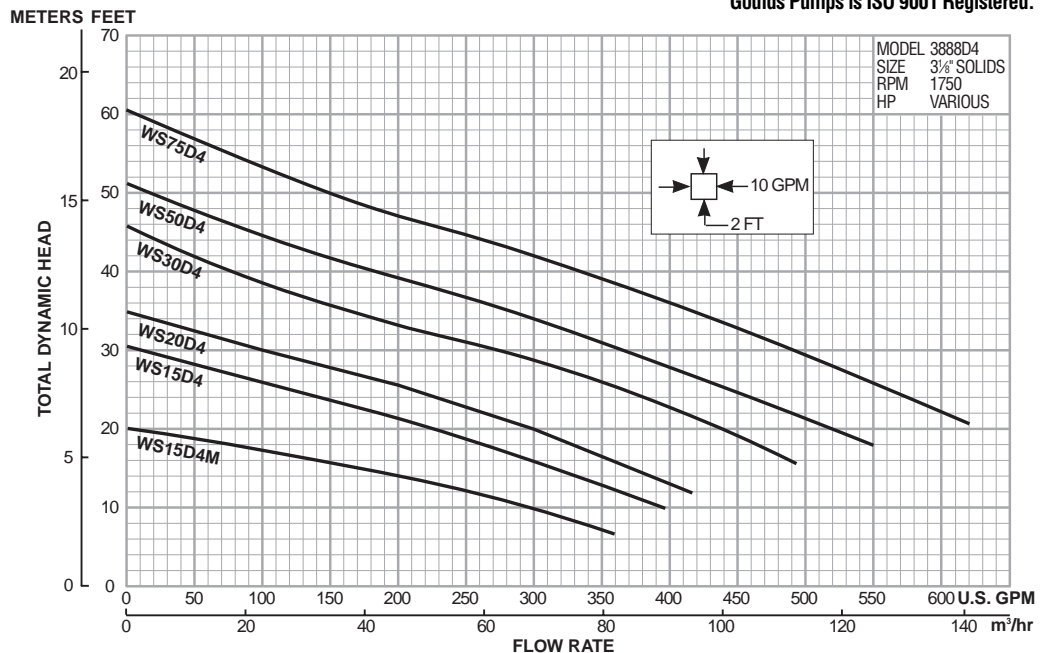
■ **O-Ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS



Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38549

Goulds Pumps is ISO 9001 Registered.



Goulds Pumps

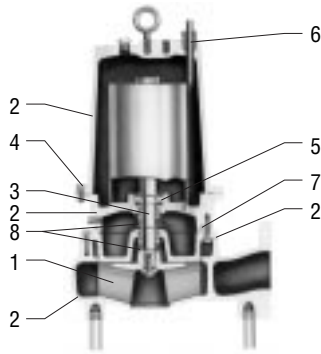


ITT Industries

Submersible Sewage Pump

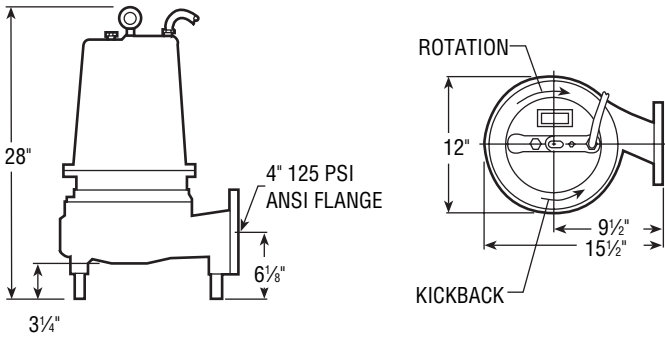
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DIMENSIONS

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



MATERIALS OF CONSTRUCTION

Item No.	Part Name	Material					
		Standard	Optional				
1	Impeller, non-clog	1001	1101				
2	Castings	1001					
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	Mechanical Seals	No.	Service	Rotary	Stationary	Elastomers	Metal Parts
	OPT	10K22	Heavy duty	Tungsten	Tungsten	BUNA-N	300 Series SS
	STD	10K28	Mild abrasives	Silicon carbide		BUNA-N	300 Series SS
Material Code		Engineering Standard					
1001		Cast iron — ASTM A48 Class 20					
1101		Bronze — ASTM C87500					

MODELS

Series	HP	Phase	Volts*	RPM	Overload Heaters	Max. Amp.	Wt. (lbs.)
WS1518D4,D4M	1 1/2	1	208	1750	NA	17.2	195
WS1512D4,D4M			230		NA	13.2	195
WS1538D4,D4M		3	200		K54	11.5	195
WS1532D4,D4M			230		K53	10.0	195
WS1534D4,D4M			460		K37	5.0	195
WS2018D4	2	1	208		NA	20.3	200
WS2012D4			230		NA	16.3	200
WS2038D4		3	200		K56	13.3	200
WS2032D4			230		K54	11.6	200
WS2034D4			460		K41	5.8	200
WS3018D4	3	1	208		NA	25.5	208
WS3012D4			230		K63	21.5	208
WS3038D4		3	200		K60	16.6	205
WS3032D4			230		K58	14.4	205
WS3034D4			460		K43	7.2	205
WS5012D4	5	1	230		K67	26.5	213
WS5038D4			200		K61	19.1	210
WS5032D4		3	230	K60	16.6	210	
WS5034D4			460	K50	8.3	210	
WS7532D4			7 1/2	3	230	K64	23.0
WS7534D4	460	K54			11.5	225	

* For 575 V consult factory.

PERFORMANCE RATINGS (gallons per minute)

Series No.	WS15D4M	WS15D4	WS20D4	WS30D4	WS50D4	WS75D4	
HP	1 1/2	1 1/2	2	3	5	7 1/2	
RPM	1750						
Total Head Feet of Water	10	300	395				
	15	170	320	370			
	20		230	300	440	520	
	25		120	205	365	440	
	30			100	270	360	510
	35				160	275	440
	40				80	175	355
	45					85	260
	50						155
55						80	