



# Submersible Sewage Pump

MODEL 3888D3

## WS-D3 Series

### 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" ANSI 125# flange.
- Maximum capacity: 470 GPM.
- Maximum total head: 65 feet.
- 316 SS fasteners.

#### Motor:

- Maximum ambient temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- Rated for continuous duty with motor fully submerged.
- Three Phase:
  - 1.5 to 5 HP.
  - Overloads must be provided in starter unit.
- 60 Hz voltages available:
  - Single Phase: 208 and 230.
  - Three Phase: 200, 230, 460 and 575.
- RPM: 1750.
- Insulation: Class B.
- Single row ball bearings.
- 20' power cord.
- 300 series SS keyed shaft.

#### Pump/Motor Options:

- Silicon bronze impeller.
- Tungsten carbide outer seals.
- Longer power cords: 30', 50' and 100'.

open, non-clog design with pump out vanes for mechanical seal protection. Computer 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#, flanged, horizontal discharge conforming to ANSI standards. Compatible with A10-30 cast iron or A10-30B cast iron and brass (non-sparking) slide 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.

■ Capable of running dry with-out damage to components.

### MOTORS

■ Fully submerged in O-ring sealed, 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.

- **Single phase:** 1.5 and 2 HP have 14/3 STOW and 3 and 5 HP have 10/3 STOW cords. All 1Ø have built-in capacitors and on-winding overload protection.
- **Three phase:** Have 14/4 STOW cords except 5 HP, 200/230 which have 10/4 STOW cords. Overload protection must be provided in control panel/starter unit.

■ Motor is designed for continuous operation when fully submerged.

■ Pump ratings are within the motor manufacturer's working limits.

■ **Bearings:** Upper and lower ball bearing construction to carry all radial and thrust loads.

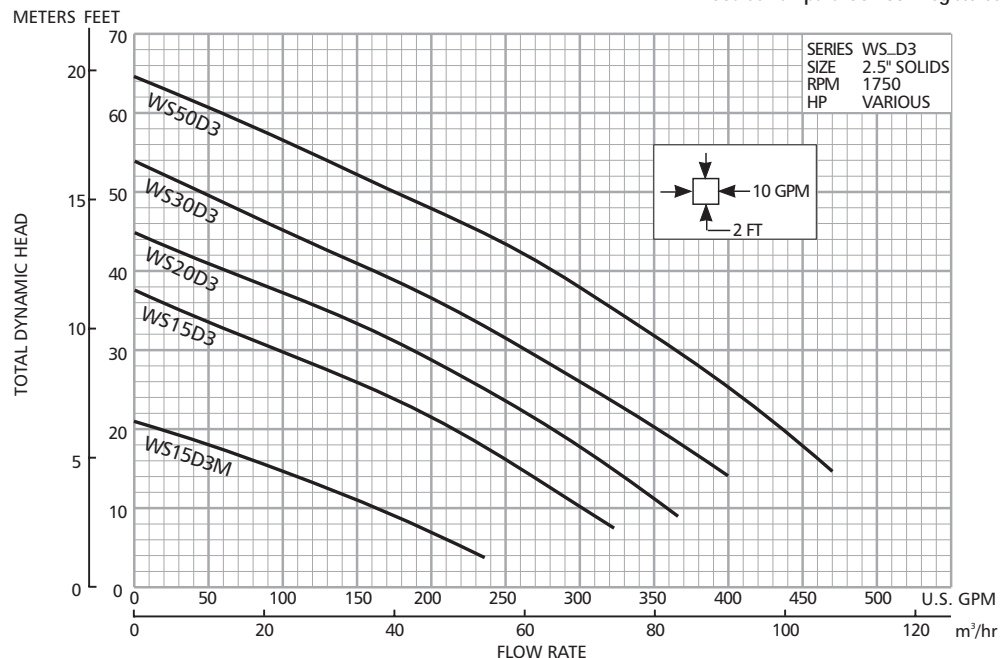
■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.

### AGENCY LISTINGS



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

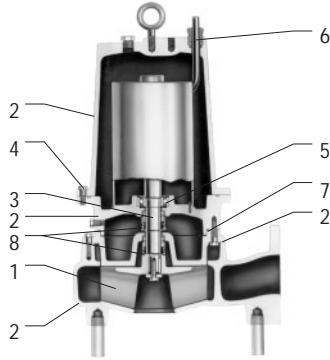
Goulds Pumps is ISO 9001 Registered.



### FEATURES

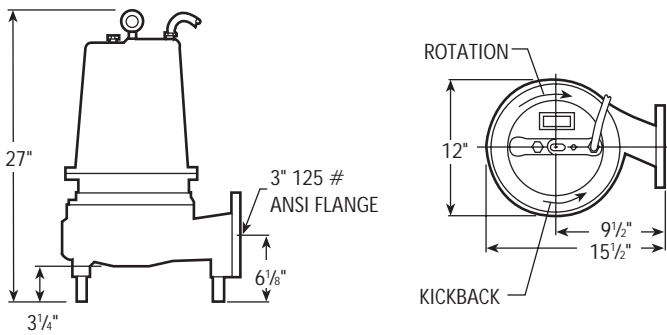
■ **Impeller:** Cast iron, ASTM A48, Class 30, two vane semi-





### 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	1003	1101			
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. Seals	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				
1101		Bronze — ASTM C87500				

### MODELS

Order No.	HP	Phase	Volts	RPM	Max. Amp.	Wt. (lbs.)
WS1518D3,D3M	1 1/2	1	208	1750	15.0	192
WS1512D3,D3M			230		11.0	192
WS1538D3,D3M		3	200		11.5	190
WS1532D3,D3M			230		10.0	190
WS1534D3,D3M			460		5.0	190
WS2018D3	2	1	208		19.0	196
WS2012D3			230		15.0	196
WS2038D3		3	200		11.5	194
WS2032D3			230		10.0	194
WS2034D3			460		5.0	194
WS3018D3	3	1	208	25.5	205	
WS3012D3			230	21.5	205	
WS3038D3		3	200	15.2	200	
WS3032D3			230	12.0	200	
WS3034D3			460	6.0	200	
WS5012D3	5	1	230	26.5	210	
WS5038D3			200	18.8	205	
WS5032D3		3	230	16.4	205	
WS5034D3			460	8.2	205	
WS1537D3 (M)			1 1/2	3	575	4.0
WS2037D3	2	4.0	194			
WS3037D3	3	4.8	200			
WS5037D3	5	6.8	205			

### PERFORMANCE RATINGS (Gallons Per Minute)

Series No. ▶	WS15D3M	WS15D3	WS20D3	WS30D3	WS50D3
HP ▶	1 1/2	1 1/2	2	3	5
RPM ▶	1750				
Total Head Feet of Water	10	160	300		
	15	90	260	320	
	20		210	280	350
	25		160	235	310
	30		100	185	265
	35			130	210
	40			60	160
	45				100
	50				
	55				
60					