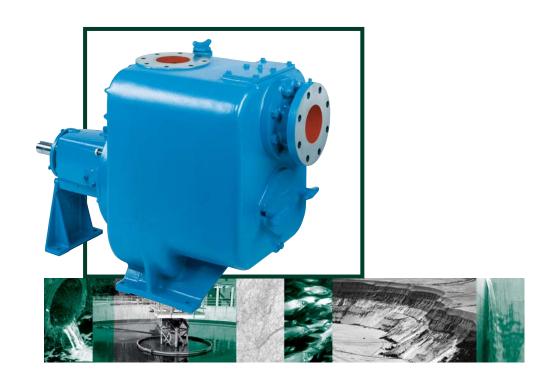


## Goulds Trash Hog® Self-Priming Solids Handling Pumps







Goulds Trash Hog is designed for superior solids handling capability, optimum pump performance and extreme ease of maintenance for a wide range of industrial, pulp and paper, mining and municipal wastewater services. Whether handling raw sewage, sludge, debris or plant wastes, there's no other pump that compares to the Trash Hog.

## **Goulds Trash Hog®**

# **Self-Priming Pumps Designed for Toughest Solids Handling Services**

- Capacities to 6000 GPM (1363 m<sup>3</sup>/h)
- Heads to 140 feet (43 m)
- Temperatures to 225°F (107° C)
- Pressures to 85 PSIG (586 kPa)
- Suction Lifts to 25 feet (7.6 m)
- Spherical Solids to 3 inches (76 mm)

## Performance Features for Self-Priming, Solids Handling Services

#### Large Capacity Priming Chamber

For reliable priming and repriming

#### **Heavy Duty Power End**

For extended life in toughest services

#### Non-Clog Impeller

Capable of passing spherical solids to 3 inches (76 mm)

#### **External Impeller Adjustment**

Easily renews optimum hydraulic performance

#### **Trimmable Impeller**

Permits most efficient use of motor horsepower

### **Services**

#### **Pulp and Paper Industry**

- Black Liquor Sump
- Paper Machine Floor Sump
- Knotters Discharge Pump
- White Water Service

#### **General Industry**

- Wash Down Sump
- Food Wastes
- Fish Farming
- Rendering Wastes
- Machine Coolant Sump

#### **Mining & Metal Fabrication**

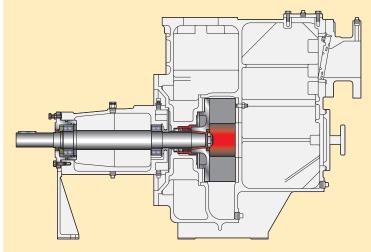
- Mine Dewatering
- Mill Scale Runoff
- Cutting Oil Transfer
- Construction Site Dewatering

## **Designed for Extreme Ease of Maintenance**

#### **Easily Renewed Performance**

It's common knowledge that as a pump wears, the performance decreases. The Trash Hog's open impeller can be adjusted, simply and quickly, to compensate for wear and renew performance.





Adjustable cartridge style bearing housing allows adjustment of impeller to wearplate clearance. No shims are required. No need to disassemble or drain pump.

### **Safe and Easy Back Pull-Out**

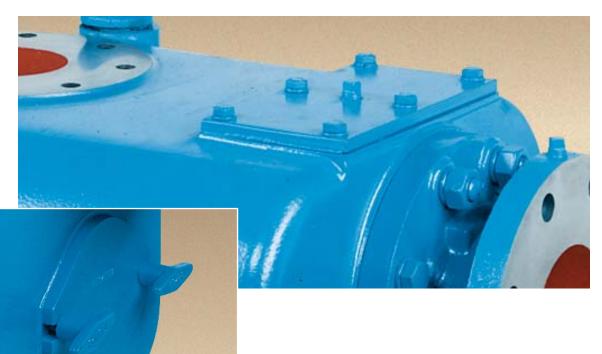
The power end is entirely outside the pump casing allowing a safe and easy "sling point" for removal. Jacking bolt holes are provided to ease the separation of the power end from the casing.

- No special tools or "T" handles are required to remove the power end.
- No shims are used on the casing bolt circle for clearance adjustments.
- No risk of injury from "wrestling" with an awkward back pull-out design.



### **Easy and Safe Clean-Out and Inspection**

The inspection plate provides convenient access for replacing the suction check valve and removing small casing clogs without draining the casing.



The front cover access plate weighs only 6 pounds...it's easy to remove and cannot be frozen in place from corrosion.

### Easy to Install – Easy to Repair

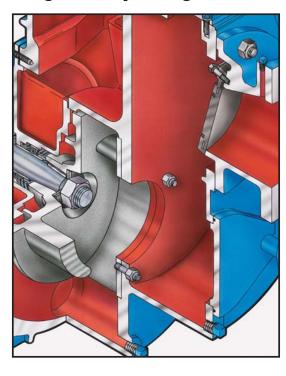
face flanges are standard for easy installation.



## **Reliable Self-Priming Operation**

### **Consistent Priming and Repriming**

Self-priming pumps require liquid in the priming chamber in order to prime properly. Too small a volume of liquid can adversely affect priming performance or possibly create a dangerous situation by raising the liquid temperature.



The Trash Hog is designed with an elevated suction inlet to keep liquid in the priming chamber even if the check valve fails. All Trash Hog sizes will prime up to 25 feet in under 5

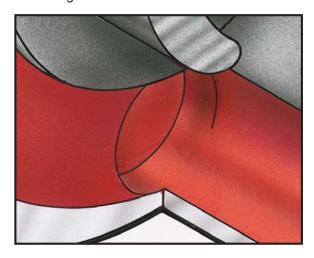


The casing fill plug provides convenient access for filling the priming chamber and provides a connection for an air release system.

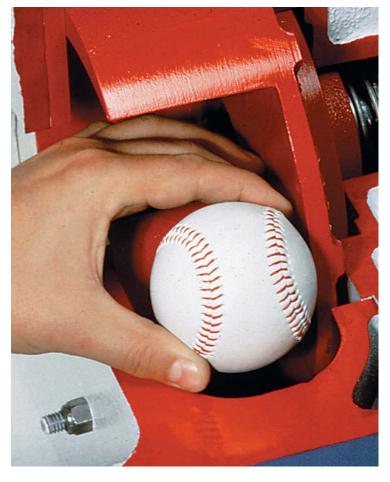
The large capacity priming chamber retains plenty of liquid for consistent priming and repriming.

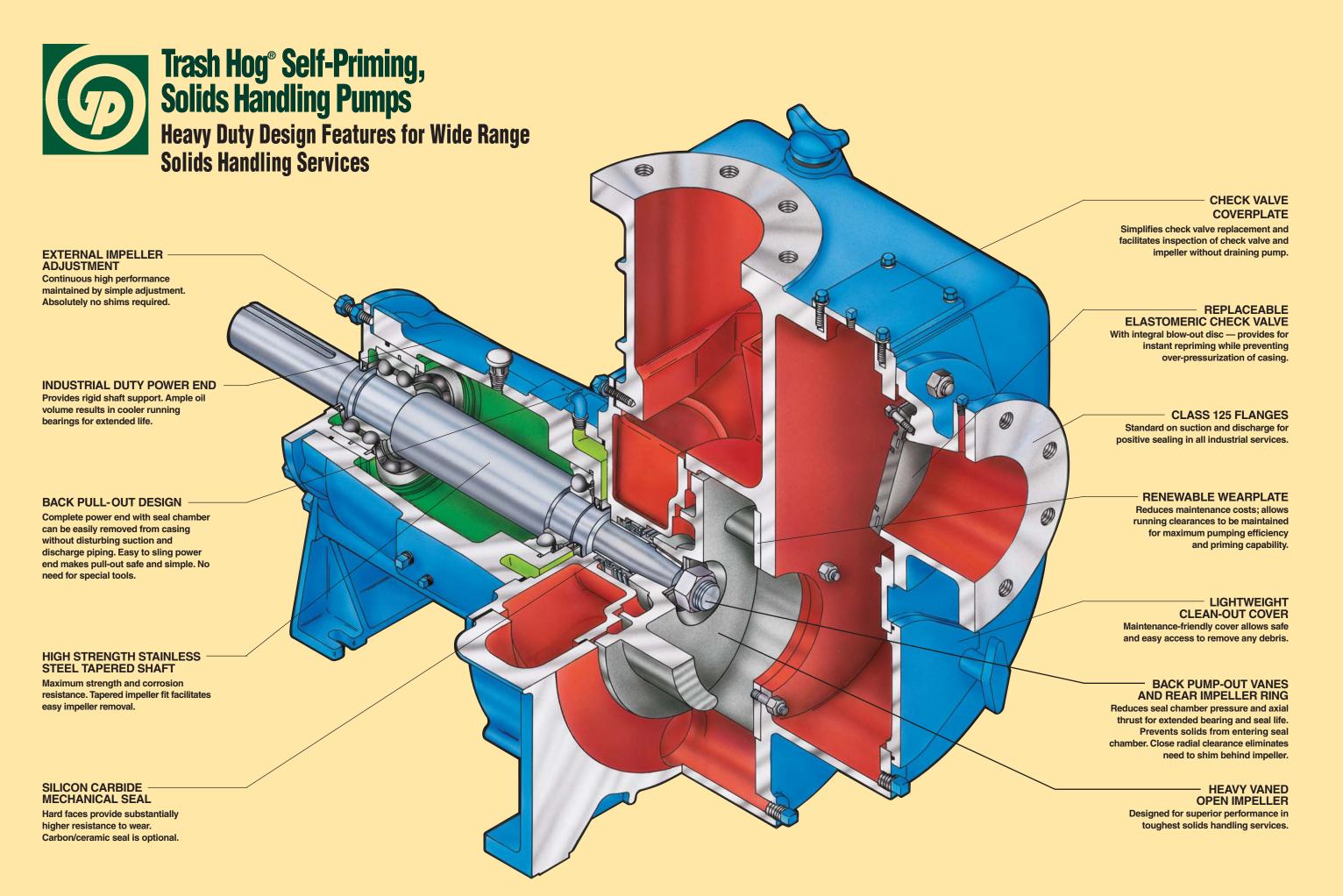
### **Industrial Duty Solids Handling**

Goulds Trash Hog is designed to handle up to 3-inch spherical solids in some of the toughest solids handling services. Other manufacturers' light duty pumps cannot match the solids handling or self-priming capability of the Trash Hog.



The Trash Hog uses two-vane or three-vane impellers for non-clog solids handling. Trash Hog is engineered for optimum efficiency and priming performance.





### **Designed for Extended Pump Life**

Goulds Trash Hog is a true heavy duty solids handling pump. No other self-priming solids handling pump is designed with the "beef" of a Trash Hog. All parts are engineered for maximum performance and service life.



Removable wearplate provides added protection to pump casing from abrasive wear. Easily replaced.



Bearing life is extended.



Trash Hog offers the heaviest impellers in the self-priming, solids handling industry. Extra thick vanes and back shroud stand up to the toughest services.

### **Proven Performance**

Goulds Trash Hog has been designed to meet the waste handling needs of our industrial customers. Whether it be a remote lift station, an on-site treatment facility or transfer of your process wastes, Goulds has the experience to provide the engineered solution you need.



Trash Hogs are utilized in remote sewage lift stations to pump municipal waste from outlying residential areas to the local treatment plant. Here, Trash Hogs are being driven by overhead belt drives to conserve lift station space. Service will be performed by removing the rotating element to the rear as typical suction piping restricts access to the front of the pumps.



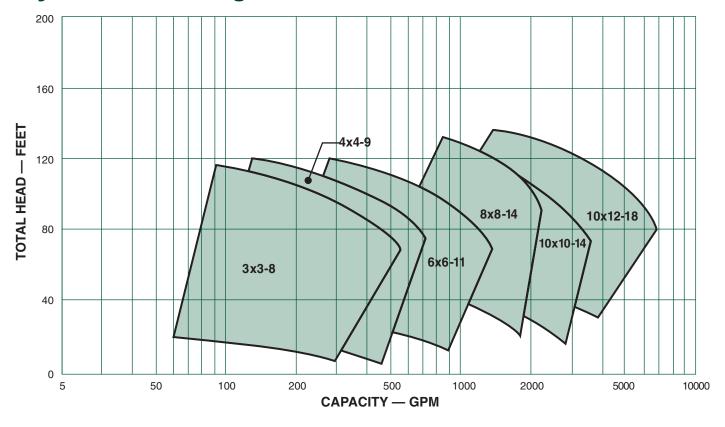
In this installation, two 3" Trash Hogs are being used to control the level of the liquid in these settling ponds. Liquid level controls in the sump determine whether either or both pumps are needed to maintain proper pond level. Trash Hogs were chosen due to their reliable priming capabilities.



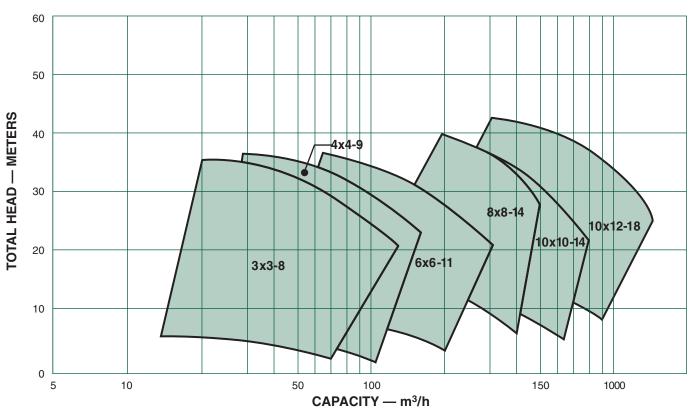
Here, one of several 6" self-priming Trash Hogs is being used to pump process waste at an industrial treatment plant. Trash Hog was specified and installed due to its ability to pass a 3" diameter solid and prime and reprime a 15 feet static suction lift.

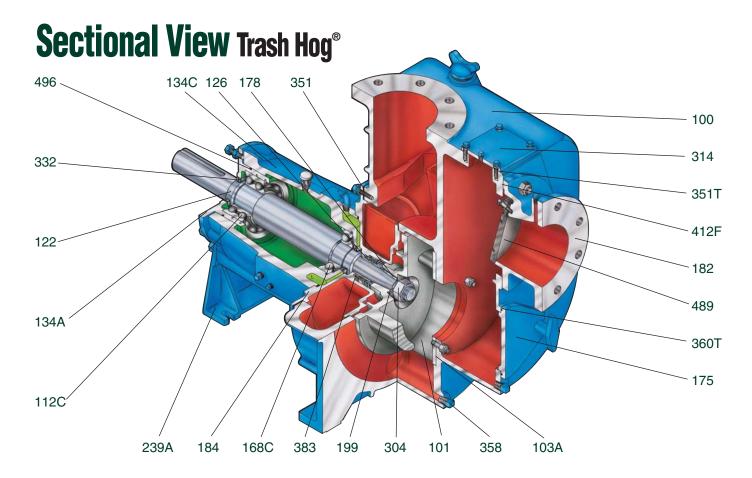
Construction Details All dimensions in inches and (mm).													
		3x3-8	4x4-9	6x6-11	8x8-14	10x10-14	10x12-18						
Casing	Suction/Discharge Flange	3, Class 125	4, Class 125	6, Class 125	8, Class 125	10, Class 125	Class 125						
	Maximum Pressure		85 PSIG (586 kPa)		65 PSIG	80 PSIG (552 Kpa)							
	Minimum Thickness		0.38 (10)		0.44 (11) 0.50 (13)		0.50 (13)						
	Volume	10 Gal. (38L)	14 Gal. (53L)	21 Gal. (80L)	31 Gal. (117L)	95 Gal. (360L)	70 Gal. (265L)						
Shaft	Diameter at Impeller	1.38 (35)		1.75 (45)		2.0 (51)	2.75 (70)						
	Diameter in Stuffing Box	1.38 (35)		1.75 (45)	2.0 (51)	2.75 (70)							
	Diameter Between Bearings	2.0 (51)	2.25 (57)	3.0 (76)		4.0 (102)							
	Diameter at Coupling	1.38 (35)	1.63 (41)		2.0 (51)		2.375 (60)						
Bearings	Radial Bearing	308	5210	31	3	5313	317						
	Thrust Bearing	308	5210	5210 5313			7317						
	Bearing Span	9.66 (245)	9.75 (248)	10.94	(278)	10.75 (273)	11.68 (297)						
	Avg L' <sub>10</sub> Bearing Life	120,000 Hrs											
	Oil Sump Capacity	1.75 Qts. (1.7L)			2.12 Qts. (2.0L)								
Max Speed		2200 RPM	2000 RPM	) RPM 1750 RPM 1450 RPM									
Max Temp		225°F (107°C)											
Solids	Maximum Diameter Solids	2.5 (64)			3.0 (76)	2.5 (64) 3.0 (76)							

## **Hydraulic Coverage** Trash Hog® 60 Hz



## **Hydraulic Coverage** Trash Hog® 50 Hz





		Material									
ltem Number	Part Name	All Cast Iron	CI\316	CI\316 w\316 SB Cover	CI/ HC600	CI/ CD4	All 316SS	AII CD4MCu			
100	Casing	Cast Iron 316SS						CD4MCu			
101	Impeller	Ductile Iron	Ductile Iron 316SS			CD4	316SS	CD4MCu			
103A	Wear Plate	Ductile Iron	316	HC600	CD4	316SS	CD4MCu				
112C	Thrust Bearing	Double Row Angular Contact (3)									
122	Shaft	17-4PH <sup>(2)</sup>									
126	Shaft Sleeve (Optional)	416 SS									
134A	Bearing Carrier	Cast Iron									
134C	Bearing Frame	Cast Iron									
168C	Radial Bearing	Double Row Angular Contact (1)									
175	Clean Out Cover	Cast Iron 316SS CD4MCu									
178	Impeller Key	Steel 316 SS									
182	Suction Piece	Cast Iron 316SS CD4									
184	Stuffing Box Cover	Cast Iron 316SS Cast I					316SS	CD4MCu			
199	Impeller Washer	Carbon Steel 316SS All						Alloy 20			
239A	Frame Foot	Cast Iron									
304	Impeller Nut	Carbon Steel 316SS Allo						Alloy 20			
314	Inspection Cover	Cast Iron					316SS	CD4MCu			
332	Oil Seal	Lip Seal (Buna\Steel)									
351	Casing Gasket	Lexide									
351T	Gasket, Inspection Cover	Lexide									
358	Casing Drain Plug	Carbon Steel 316SS						Alloy 20			
360T	O-ring	Buna N Viton									
383	Mechanical Seal	Single (Silicon Carbide vs. Silicon Carbide/Viton)									
412F	Gasket, Suction Piece	Lexide									
489	Check Valve	Buna N Viton									
496	O-ring	Buna N									

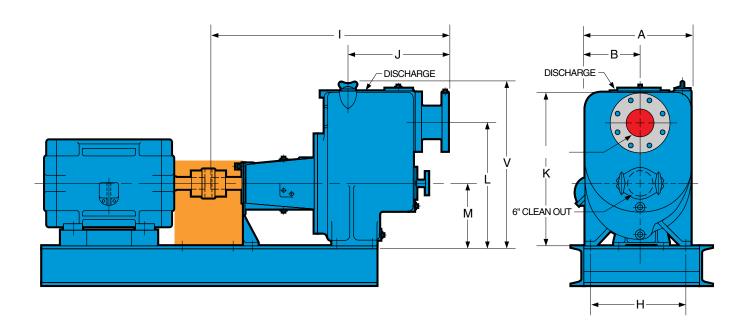
<sup>(1)</sup> Single row bearings standard on 3x3-8, 6x6-11 and 8x8-14 pumps.

<sup>(2)</sup> Carbon steel shaft standard on 3x3-8 and 4x4-10 pumps for all iron construction.

<sup>(3)</sup> Single row bearings standard on 3x3-8 pump.

## **Dimensions Trash Hog®**

All dimensions in inches and (mm). Not to be used for construction.



DIMENSIONS													
Pump Size	Discharge	Suction	А	В	н	I	J	К	L	M	V	Wei Bare l Lbs.	
3x3-8	3	3	14.25 (368)	7.56 (192)	13.38 (340)	38.75 (984)	17.19 (437)	25.31 (643)	21.5 (546)	11.5 (292)	26.63 (676)	480	(218)
4x4-9	4	4	16.44 (418)	8.63 (219)	15.63 (397)	40.13 (1019)	18.56 (472)	25.75 (654)	21 (533)	11.5 (292)	27.06 (687)	600	(273)
6x6-11	6	6	19.81 (503)	10.25 (260)	18.56 (472)	42.69 (1084)	16.5 (419)	27 (686)	21 (533)	10 (254)	28.56 (726)	705	(320)
8x8-14	8	8	23.25 (591)	10.56 (268)	20.25 (514)	45.56 (1157)	19.75 (502)	34 (864)	26.63 (676)	12 (305)	35.56 (903)	1150	(523)
10x10-14	10	10	28.94 (735)	13 (330)	24.5 (622)	54.13 (1375)	25.63 (651)	44 (1118)	33.5 (851)	14.75 (375)	45.31 (1151)	1800	(818)
10x12-18	10	12	36.38 (924)	16.5 (419)	31.5 (800)	64.25 (1632)	39.0 (991)	71.94 (1827)	38.88 (987)	16.38 (416)	71.94 (1827)	2470	(1123)



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