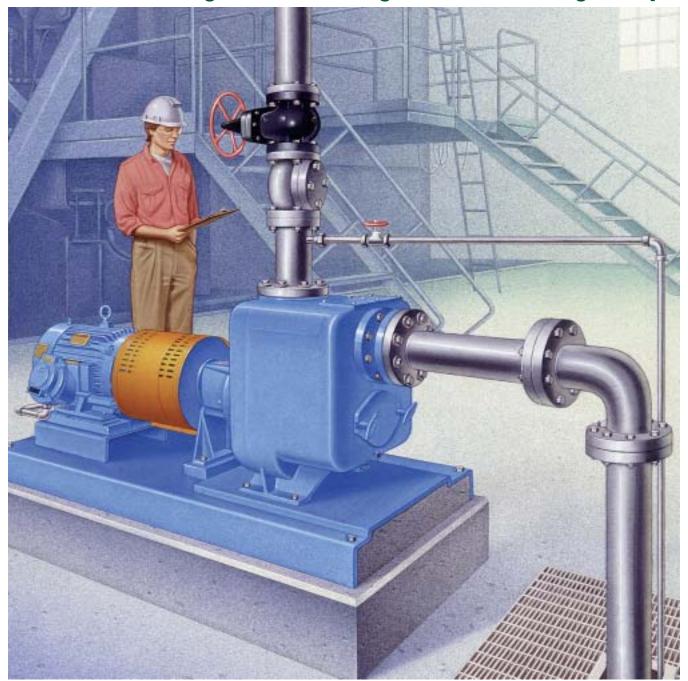


# Goulds *Trash Hog*® Self-Priming Solids Handling Pumps



Goulds 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**

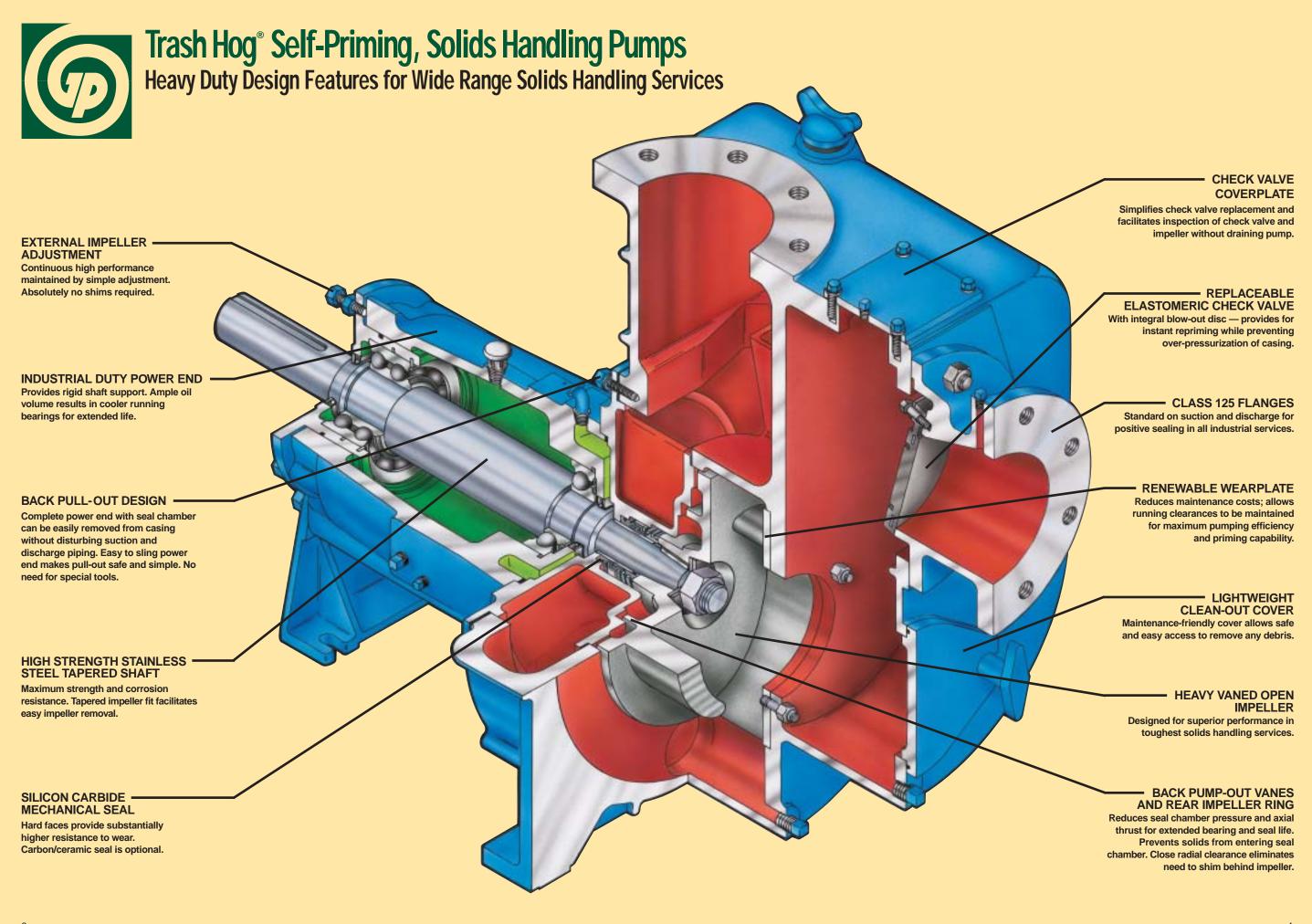
- Black Liquor Sump
- Paper Machine Floor Sump
- Knotters Discharge Pump
- · White Water Service

### **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



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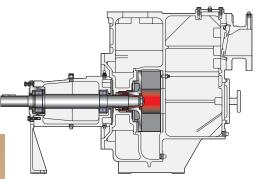
## **Designed for Extreme Ease of Maintenance**

## **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.



Original performance can be re-set in a matter of minutes with external impeller adjustment. 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



Class 125 flat face flanges are standard for easy installation.



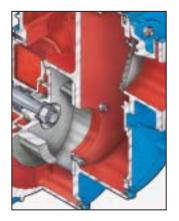
The tapered shaft and woodruff key design allow easy removal of the impeller from the rotating assembly.

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



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 minutes.

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

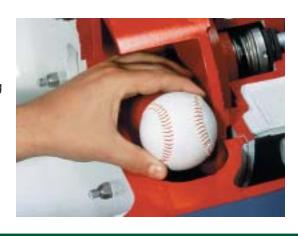


## **Industrial Duty Solids Handling**

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.





The power end is supported by a rigid cast iron frame foot that provides excellent support for the shaft and thrust bearing. 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.



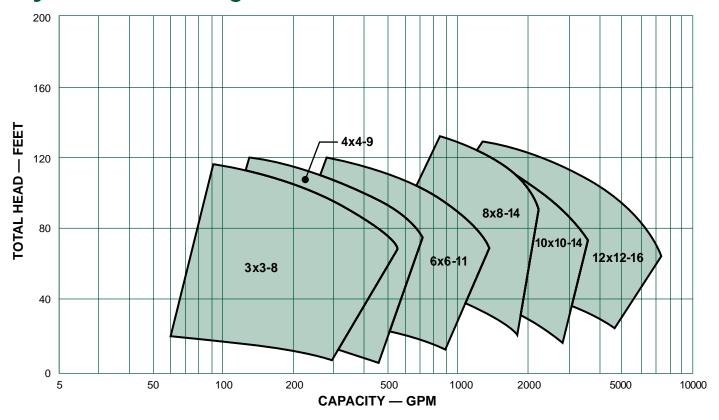
In this installation, two 3" Trash Hogs are being used to control the level of the liquid in these settling ponds. Liquid level controls in the sump determine whether either or both pumps are needed to maintain proper pond level. Trash Hogs were chosen due to their reliable priming capabilities.



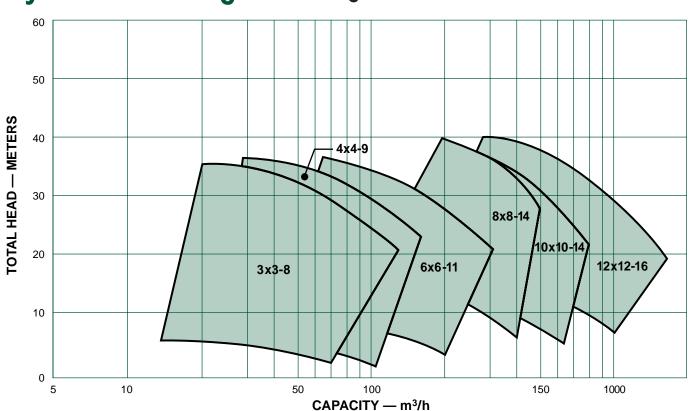
Here, one of several 6" self-priming Trash Hogs is being used to pump process waste at an industrial treatment plant. Trash Hog was specified and installed due to its ability to pass a 3" diameter solid and prime and reprime a 15 feet static suction lift.

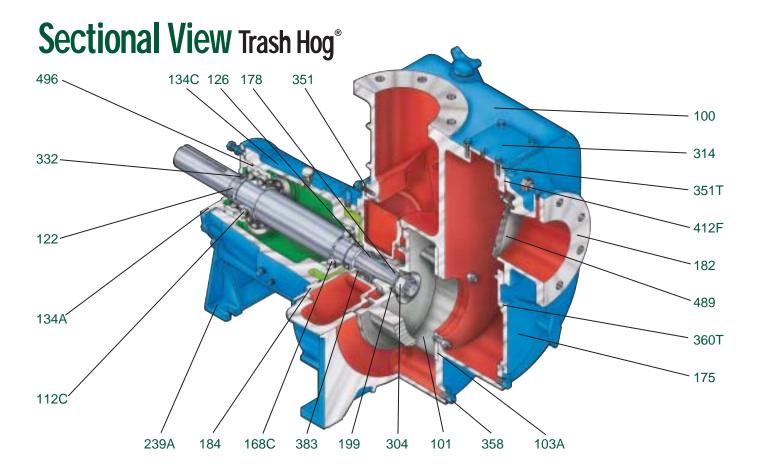
Construction Details All dimensions in inches and (mm).											
		3x3-8	4x4-9	6x6-11	8x8-14	10x10-14	12x12-16				
Casing	Casing Suction/Discharge Flange		4, Class 125 6, Class 125		8, Class 125	10, Class 125	12, Class 125				
	Maximum Pressure		85 PSIG (586 kPa)	)	65 PSIG (448 kPa) 80 PSIG (552 l						
	Minimum Thickness		0.38 (10)	0.50 (13)	0.50 (13)						
	Volume	10 Gal. (38L)	10 Gal. (38L) 14 Gal. (53L) 21 Gal. (80L) 31 Gal. (1		31 Gal. (117L)	95 Gal. (360L)	70 Gal. (265L)				
Shaft	Diameter at Impeller	1.38 (35)		1.75 (45)	2.0 (51)						
	Diameter in Stuffing Box	1.38 (35)		1.75 (45)	2.0 (51)						
	Diameter Between Bearings	2.0 (51)	2.25 (57)	2.25 (57) 3.0 (76)							
	Diameter at Coupling	1.38 (35)	1.63 (41) 2.0 (51)								
Bearings	Radial Bearing	308	5210	31	13	5313					
	Thrust Bearing	308	5210								
	Bearing Span	9.66 (245)	9.75 (248)	10.94	10.75 (273)						
	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	1750 RPM 1450 RPM							
Max Temp		225°F (107°C)									
Solids	Maximum Diameter Solids	2.5 (64) 3.0 (76)									

# Hydraulic Coverage Trash Hog® 60 Hz



# Hydraulic Coverage Trash Hog® 50 Hz

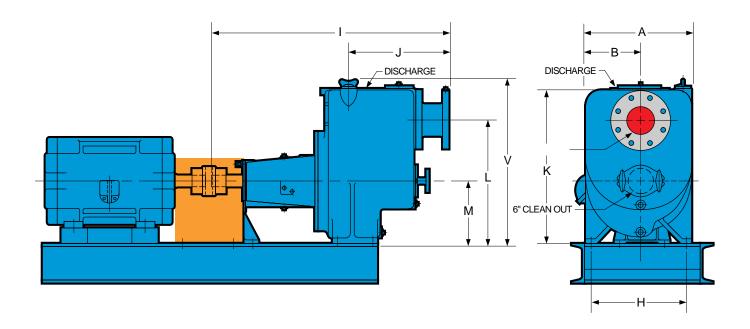




		Material									
Item Number	Part Name	All Cast Iron			CI/ CD4	All All S16SS CD4MC					
100	Casing	Cast Iron 316SS CD4N									
358	Casing Drain Plug	Carbon Steel 316SS Alloy 20									
304	Impeller Nut	Carbon Steel 316SS Alloy 20									
199	Impeller Washer	Carbon Steel 316SS Alloy 20									
351	Casing Gasket	Lexide									
184	Stuffing Box Cover	Cast Iron 316SS Cast Iro					316SS	CD4MCu			
383	Mechanical Seal	Single (Silicon Carbide vs. Silicon Carbide/Viton)									
126	Shaft Sleeve (Optional)	416 SS									
134C	Bearing Frame	Cast Iron									
239A	Frame Foot	Cast Iron									
168C	Radial Bearing	Double Row Angular Contact (1)									
178	Impeller Key	Steel	316	SS							
122	Shaft			17	7-4PH <sup>(2)</sup>						
332	Oil Seal	Lip Seal (Buna\Steel)									
412F	Gasket, Suction Piece				Lexide						
182	Suction Piece	Cast Iron 316SS									
489	Check Valve	Buna N						Viton			
314	Inspection Cover	Cast Iron 316SS C									
351T	Gasket, Inspection Cover	Lexide									
175	Clean Out Cover	Cast Iron 316SS									
360T	O-ring			Viton							
103A	Wear Plate	Ductile Iron	316	SS	HC600	CD4	316SS	CD4MCu			
101	Impeller	Ductile Iron	316	SS	HC600	CD4	316SS	CD4MCu			
496	O-ring	Buna N									
134A	Bearing Carrier	Cast Iron									
112C	Thrust Bearing	Double Row Angular Contact (3)									

- (1) Single row bearings standard on 3x3-8, 6x6-11 and 8x8-14 pumps.
- (2) Carbon steel shaft standard on 3x3-8 and 4x4-10 pumps for all iron construction.
  (3) 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	Α	В	н	ı	J	К	L	M	V	Wei Bare l Lbs.	ght Pump Kgs.
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)
12x12-16	12	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)



## Visit our website at www.gouldspumps.com

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