



ITT

B2GV

Wastewater

Goulds Pumps

2GV Submersible 2" Vortex
Sewage Pump up to 6.2 HP

Dual Seal with Seal Sensor Probe



Includes stand



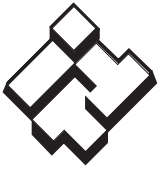
Goulds Pumps is a brand of ITT Corporation.

www.goulds.com

Engineered for life

FEATURES

- **Impeller:** Ductile iron, vortex style, dynamically balanced with pump out vanes for mechanical seal protection.
- **Casing:** Cast iron 2" NPT volute type for maximum efficiency. Designed for easy installation on A10-20 guide rail.
- **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.
- **Seal Sensor Probe:** Located in oil-filled chamber. If pumpage should begin to leak past lower seal it indicates to pump control panel a fault has occurred. **Requires Seal Fail Circuit in the control panel.**
- High temperature sensor included. Requires high temperature circuit in panel.
- **Shaft:** Corrosion resistant, 400 series stainless steel. Key and impeller bolt on all models to guard against component damage on accidental reverse rotation.
- **Fasteners:** 300 series stainless steel.
- Capable of running dry without damage to components.
- Designed for continuous operation, when fully submerged.



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APPLICATIONS

Specifically designed for the following uses:

- Sewage systems
- Water transfer
- Commercial applications
- Dewatering/Effluent
- Light industrial

Anywhere waste or drainage must be disposed of quickly, quietly and efficiently.

SPECIFICATIONS

Pump:

- Solids handling capabilities: 2" maximum.
- Capacities: up to 275 GPM.
- Total heads: up to 82' TDH.
- Discharge size: 2" NPT
- Temperature: 104° F (40° C) continuous

Motor:

- Maximum ambient temperature: 104° F (40° C) continuous duty
- Rated for continuous duty when fully submerged
- Insulation: Class F
- 60 Hertz
- Single row ball bearings
- 300 Series stainless steel keyed shaft
- Requires external motor components for single phase (not included)
- Requires overload protection in panel (not included)
- Includes high temperature sensor for winding protection

AIR-FILLED MOTOR

- Efficient heat dissipation
- Run dry capability
- **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.
- High temperature winding protection
- **Cord:** Severe duty rated, oil and water resistant. 50 foot standard.
- **O-ring:** Assures positive sealing against contaminants and oil leakage.



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MODEL AND MOTOR INFORMATION

Part No.	Discharge	HP	Phase	Volts	RPM	Impeller Diameter	Power Cable	Resistance		Weight (lbs.)	Solids	AMP Draw	
								Start	Line-Line				
2GVA72A0AF	2" NPT	1	1*	115	1750	5.43	14/7	4.0	1.8	83	2"	10.5	
2GVA72A1AF				230				12.6	5.3			5.5	
2GVA72A3AF			3	—				6.0	79	3.7			
2GVA72A4AF				—				24.0		1.8			
2GVA71B1AF		2.8	1*	230	3500	3.74		2.4	0.7	83		12	
2GVA71B3AF		2.3	3	460				—	2.3	79		6.9	
2GVA71B4AF				—				9.2	3.3				
2GVA71D3AF		4	3	230				4.65	4.92	—		1.2	95
2GVA71D4AF				460	—	4.4	5.6						
2GVA71F3AF				6.2	230	12/7	—			1.8		17.3	
2GVA71F4AF					460	14/7	—			2.3		8.3	

* Requires panel mounted motor capacitors and overload protection. (Not supplied with pump.)

NOMENCLATURE DESCRIPTION

1st Character – Discharge Size

2 = 2" discharge

2nd and 3rd Characters – Series/Solids Size

GVA = wastewater, 2" solids handling, vortex.

5th Character – Mechanical Seals

7 = silicon carbide/silicon carbide/BUNA – lower seal
and carbon/ceramic/BUNA – upper seal (standard)

6th Character – Cycle/RPM

1 = 60 Hz/3500 RPM

2 = 60 Hz/1750 RPM

7th Character – Horsepower

A = 1 HP

D = 4 HP

B = 2.8 HP (1Ø)

F = 6.2 HP

2.3 HP (3Ø)

8th Character – Phase/Voltage

0 = single phase, 115 V

3 = three phase, 230 V

1 = single phase, 230 V

4 = three phase, 460 V

9th Character – Impeller Diameter

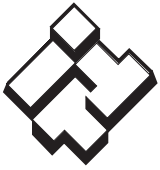
A = maximum impeller

No trims available.

10th Character – Cord Length (Power and Sensor)

F = 50' (standard)

Optional cords not available.



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APPLICATION DATA

Maximum Solid Size	2"
Maximum Working Pressure	150 PSI (10 bar)
Maximum Submergence	66 feet (20 m)
Minimum Submergence	Fully submerged for continuous operation
Maximum Environmental Temperature	40°C (104°F) continuous operation

CONSTRUCTION DETAILS

Power and Sensor Cable	12/7, type: three phase		
	14/7, type: single and three phase		
Motor Cover	Gray Cast Iron – ASTM A48 Class 35		
Seal/Bearing Housing	Gray Cast Iron – ASTM A48 Class 35		
Casing	Gray Cast Iron – ASTM A48 Class 35		
Impeller	Ductile Iron – ASTM A395 Gr. 60-46-18		
Motor Shaft	AISI 400 Series Stainless Steel		
Motor Design	Air filled Class F		
Single Phase Capacitors	HP	Volt	Rating of Capacitors
	1	115	50 mfd/450
	1	230	25 mfd/450
	2.8	230	50 mfd/450
Motor Overload Protection	Single/Three Phase: require ambient compensated Class 10, quick trip overloads in the control panel.		
Motor Seal Fail / High Temp. Detection	Seal fail sensor and high temp. in an oil-filled seal chamber. Connect to optional relays in control panel.		
External Hardware	300 Series Stainless Steel		
Impeller Type	Vortex with pump out vanes on back shroud		
Oil Capacity – Seal Chamber	20.3 ounces		

STANDARD PARTS

Ball Bearing	Upper	Single row ball – 6304 2RS C3
	Lower	Single row ball – 6305 2RS C3
Mechanical Seals – Standard	Upper	Carbon/Ceramic
	Lower	Silicon Carbon
O-Ring – Stuffing	BUNA-N	
O-Ring – Motor Cover	BUNA-N	

MATERIALS OF CONSTRUCTION

Item No.	Part Name	Material				
		Standard				
1	Impeller	Ductile Iron				
2	Motor cover	Cast Iron				
3	Shaft	400 Series SS				
4	Fasteners	300 Series SS				
5	Ball bearings	Steel				
6	Cord	SOW, 50 feet				
7	O-ring	BUNA-N				
8	Lower Mech. Seal	Service	Rotary	Stationary	Elastomers	Metal Parts
		STD	Mild abrasives	Silicon Carbide	BUNA-N	300 Series SS
	Upper Mech. Seal	Service	Rotary	Stationary	Elastomers	Metal Parts
		STD	Mild abrasives	Carbon / Ceramic	BUNA-N	300 Series SS



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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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