

FEATURES

Design: Capable of grinding municipal, commercial and industrial sewage.

Cutter System: Designed to reduce sewage to a fine slurry.

Impeller: Cast iron, semi-open, non-overloading multi-vane design with pump-out vanes for mechanical seal protection.

Casing: Cast iron, volute type for high efficiency. Adaptable for slide rail system.

Paint: Two coat paint system for superior surface protection.

Float Leakage Sensor (FLS): a small internal float switch is used to detect the presence of water in the stator chamber. Standard on all models.

Leakage Sensor Detector Circuit: The FLS, when activated, will cause the patented 24 volt MiniCAS monitoring relay to signal an alarm and, if desired, stop the pump. The MiniCAS 24 volt relay can be ordered separately for installation in a control panel by a UL or CSA certified panel shop or as a built-in option in our control panel.



15GDS(GXS) & 20GDS(GXS)

1½" AND 2" DISCHARGE SUBMERSIBLE GRINDER PUMPS



Bell & Gossett
a xylem brand

Wastewater

APPLICATIONS

High head and pressure sewage systems for:

- Municipal
- Commercial
- Industrial

PUMP SPECIFICATIONS**15GDS:**

- Discharge Size: 1½"
- Maximum Capacity: 92 GPM
- Maximum Total Head: 117' TDH

20GDS:

- Discharge Size: 2"
- Maximum Capacity: 198 GPM
- Maximum Total Head: 178' TDH
- Maximum temperature rating: 104° F (40° C) continuous duty
- Tandem mechanical seals: see Application Data for details.
- Fasteners: 300 series stainless steel.
- Rotating cutter: chrome alloyed cast iron.
- Cutter ring: hardened 316L stainless steel.
- Cast iron parts are ASTM A-48, Class 35B.

MOTOR SPECIFICATIONS

- Air-filled design
- NEMA type B
- Class F insulation
- 60 Hertz
- Shaft: 431 series stainless steel, taper collet design.
- Ball bearings: oversized, pre-greased upper and lower ball bearings.
- Power cord: 30 feet standard, single jacket, 6 conductor combination power and control cable. Optional 100 foot lead is available.

NOTE**Control Panel - Recommendations:**

Literature May be Found in Catalog Accessory Section

The single-phase models of these grinder pumps require capacitor packs and starting relays which are available as kits: see CentriPro Capacitor Packs, BCPCAP; or built into complete single phase control panels: see CentriPro Single Phase Grinder Control panels, BCP1PGP.

We also have single phase grinder panels for pumps located in Class I, Division I locations, they contain intrinsically safe relays, seal failure circuits and high temperature shut down circuits. See BCP1PC1P Bulletin.

Single Phase:

- 3 HP @ 3450 RPM
- 5.9 HP @ 3450 RPM
- 9.4 HP @ 3450 RPM
- 230 Volts

Notice: Single phase pumps require a capacitor pack and start relay for proper operation.

Three Phase:

- 4 HP @ 3450 RPM
- 6 HP @ 3450 RPM
- 11 HP @ 3450 RPM
- 200, 230, 460 and 575 Volts

MOTOR FEATURES

- Air-filled, NEMA type B squirrel cage induction motor
- Class F, 311° F (155° C) insulated stator winding
- Designed for a maximum of 15 evenly spaced starts per hour.
- Built-in thermal sensors provide an over temperature signal to the Mini CAS (Control and Status) monitoring relay mounted in the control panel. The Mini CAS can be ordered separately or ordered as an option in our control panel.
- Common pump motor shaft and compact seal design permit short overhang minimizing shaft deflection.
- Motor casings have integral cooling ribs for maximum heat dissipation.
- Shaft mounting is a robust maintenance free design featuring pre-greased ball bearings.
- The junction chamber is completely sealed off from the surrounding liquid and incorporates a separate gland assembly with a strain relief clamp.
- Also available in optional Explosion Proof construction. See Models 15GXS and 20GXS literature.

MODEL INFORMATION

Order Number	HP	Phase	Volts	RPM	Dis-charge Size	Impeller Code/ Size	Max. Amps	Aux Resistance	Resistance	Start Amps	Locked Rotor Amps	Power Cable Size	Pump Wt. (lbs.)		
15GDS2G31H2D	3	1	230	3450	1½"	H/5.25"	13.0	4.33	.926	74.0	52.0	14/6	117		
15GDS2G31L2D						L/5.63"									
15GDS2H31G3D	5.4				G/5.60"	22.0	.991	.445	120.0	100.0	12/6	172			
20GDS2H31K3D					K/4.70"										
20GDS2J31F1D	9.4				2"	F/6.26"	38.0	.338	.219	134.0	170.0	8/6*	241		
20GDS2J31J1D						J/6.26"									
15GDS4H21C2D	4	3	200		1½"	C/5.90"	12.0	.607	1.41	63.0	62.0	14/6	117		
15GDS4H31C2D			230				10.0							30.0	27.0
15GDS4H41C2D			460				5.0								
15GDS4H51C2D			575				4.0							4.95	20.0
15GDS4J21B3D	6		200			B/6.10"	17.0	.773	133.0	79.0	12/6	172			
15GDS4J31B3D			230				15.0						.719	144.0	75.0
15GDS4J41B3D			460	7.6			77.0								
15GDS4J51B3D			575	6.0									5.75	53.0	30.0
20GDS4J21E3D			200	17.0			.773						133.0	79.0	
20GDS4J31E3D			230	15.0											.719
20GDS4J41E3D	460		7.6	77.0		41.0									
20GDS4J51E3D	575		6.0					5.75	53.0	30.0					
20GDS4K21A1D	11	200	2"	E/5.87"	17.0	.773		133.0	79.0	8/6*	241				
20GDS4K31A1D		230			30.0							.295			258.0
20GDS4K41A1D		460			26.0		.263						229.0	164.0	
20GDS4K51A1D		575			13.0							113.0			82.0
20GDS4K21D1D		200			11.0		2.56						84.0	66.0	
20GDS4K31D1D		230		30.0	.295	258.0	189.0								
20GDS4K41D1D		460		26.0				.263	229.0			164.0			
20GDS4K51D1D		575		13.0									113.0	82.0	
				11.0				2.56	84.0			66.0			

* Single cable

NOMENCLATURE

1st and 2nd Characters - Discharge Size

15 = 1½" N.P.T. Threaded

20 = 2" N.P.T. Threaded

3rd Character - Pump Type

G = Grinder Pump

4th Character - Design

D = Dual Seals and Float Leakage Sensor

X = Dual Seals and Float Leakage Sensor Explosion Proof

5th Character - Impeller Design

S = Semi-open Impeller

6th Character - Phase

1 = Single Phase

2 = Single Phase with On-Winding, Pilot Duty,
Thermal Sensors

3 = Three Phase

4 = Three Phase with On-Winding, Pilot Duty,
Thermal Sensors

7th Character - Horsepower

G = 3 HP, 1Ø

H = 5 HP, 1Ø; 4 HP 3Ø

J = 9.4 HP, 1Ø; 6 HP 3Ø

K = 11 HP, 3Ø

8th Character - Voltage

2 = 200 4 = 460

3 = 230 5 = 575

9th Character - RPM and Hertz

(Not all available on all models, see pump specifications)

1 = 3500/60

5 = 2900/50

10th Character - Silicon Bronze Impeller Code

(See individual curves for more information)

A = 11 HP / 3Ø / 20GDS

B = 6 HP / 3Ø / 15GDS

C = 5.4 HP / 3Ø / 15GDS

D = 11 HP / 3Ø / 20GDS

E = 6 HP / 3Ø / 20GDS

F = 9.4 HP / 1Ø / 20GDS

G = 5.4 HP / 1Ø / 15GDS

H = 3 HP / 1Ø / 15GDS

J = 9.4 HP / 1Ø / 20GDS

K = 5.4 HP / 1Ø / 20GDS

L = 3 HP / 1Ø / 15GDS

11th Character - Lower (outer) Mechanical Seal

Note: all upper seals are carbon/rotary and ceramic/
stationary with BUNA elastomers and 304 stainless steel
metal parts, there are no options available. The 11th
character represents the lower (outer) seal which is also
non-modifiable. The code number identifies the standard
lower seal as:

1 = Tungsten carbide/rotary and tungsten carbide/
stationary

2 = Ceramic/rotary and ceramic/stationary

3 = Tungsten carbide/rotary and ceramic/stationary

12th Character - Combination Power and Sensor Cord Length

D = 30'

J = 100'

13th Character - Options

1 = Epoxy Paint



Xylem Inc.
2881 East Bayard Street Ext., Suite A
Seneca Falls, NY 13148
Phone: (866) 325-4210
Fax: (888) 322-5877
www.bellgossett.com

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