





AGS Series

AXIAL GRINDER PUMPS





Goulds Water Technology

Wastewater

FEATURES

Design: Capable of grinding domestic sewage in the modern wastewater stream.

Cutter System: Stainless steel, axial lobe-cutter design with 8-hole cutting plate, capable of 4.9 million bites per hour and TDH up to 120 feet.

Impeller: Cast Iron semi open 2 vane impeller.

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

Motor: Fully submerged in oil-filled chamber. High grade turbine oil surrounds motor for more efficient heat dissipation, permanent lubrication of bearings and mechanical seal, and protection against outside environment.

Motor Shaft: 300 series stainless steel.

Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.

APPLICATIONS

Designed for residential/light commercial/small office sewage (2" pump replacement and new construction) or anywhere modern wastewater flushables are creating clogging issues.

SPECIFICATIONS

Pump:

Capacities: to 53 gpmTotal heads: to 120' TDH

- Temperature: Class F insulation 104°F (40°C) maximum continuous, 140°F (60°C) maximum intermittent
- Single mechanical seal: silicon carbide rotary/silicon carbide stationary, 300 series stainless steel metal parts, BUNA-N elastomers
- Fasteners: 300 series stainless steel
- Axial cutter and plate: 440C hardened stainless steel

Bearings: Upper and lower single row sealed ball bearings for precision positioning of parts and to carry all radial and thrust loads.

Mechanical Seal: Hardfaced silicon carbide on silicon carbide for longer life, stainless steel metal parts, BUNA-N elastomers.

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.

O-Ring: Assures positive sealing against contaminants and oil leakage.

Paint: Electro-coat paint process protects all casting surfaces.

May be used with optional guide rail. See Fittings or Pump Removal Systems.

AGENCY LISTINGS



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

Motor:

- Single-phase motor with on winding thermal protector. No external capacitor kits required.
- Class F insulation
- Shaft: 300 series stainless steel threaded design
- Bearings: Single row sealed ball bearings, upper and lower
- Power cord with a 115V or 230V NEMA three prong grounding plug.

Allows connection to a piggyback float switch. 20 foot long cable.

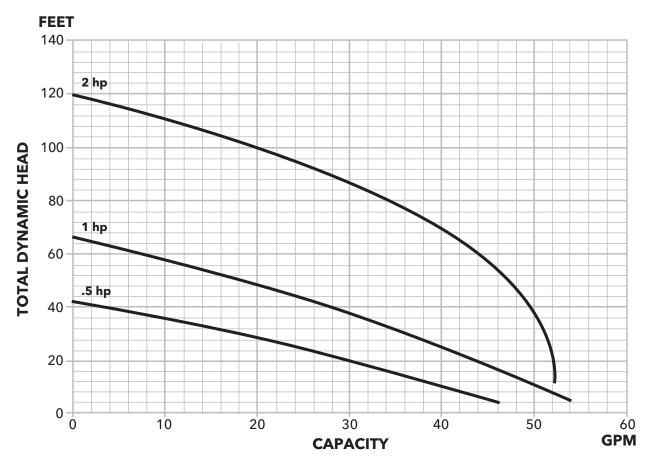


MODEL INFORMATION

Order Number	НР	Phase	Volts	RPM	Operation	Maximum Amps	Discharge Size	Impeller Diameter	Power Cord	Weight (lbs.)	
AGS0511	٥ ـ		115			9		2 5 1			
AGS0512	0.5		208-230			4.5	0.11	3.5"			
AGS1011	1	1	1	115	3500	00 Manual*	ual* 11	2"	4.25"	20' SJTOW with NEMA plug	65
AGS1012	1		200 220			5.5		4.25"	F *9		
AGS2012	2		208-230			15	1.25"	5.69"		96	

^{*} Use piggyback float for automatic operation

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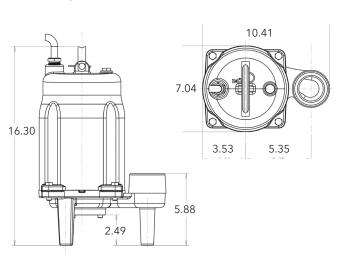


MOTOR DATA

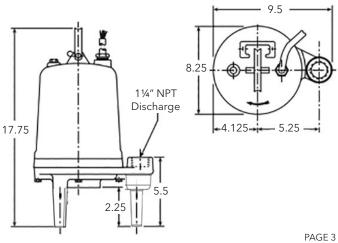
НР	Volts	Phase	RPM	Maximum Amps	LRA	Resistance	Power Cable	Fuse/Circuit Breaker	
ПР	voits					Line-Line			
0.5	115				9	46	0.6		15
0.5	208-230			4.5	25.5	2.6		10	
1	115	1	3500	11	46	0.6	SJTOW 14/3	15	
'	208-230			5.5	25.5	2.6		10	
2	208-230			15	59	1.1		30	

DIMENSIONS (All dimensions are in inches. Do not use for construction purposes.)

AGS 0511, 0512 & 1011 (in inches):



AGS 2012 (in inches):



APPLICATION DATA

Minimum Casing Thickness	₹ ₁₆ "
Casing Corrosion Allowance	1/8"
Maximum Working Pressure	50 psi
Maximum Submergence	50 feet
Minimum Culomarganaa	Fully submerged for continuous operation
Minimum Submergence	6 " below top of motor for intermittent operation
Maximum Environmental	40°C (104°F) continuous operation
Temperature	60°C (140°F) intermittent operation
Maximum Number of Evenly Distributed Starts per hour	10
Bearings	B-10 life of 30,000 hours min.
Minimum Basin Size	Simplex - 24" x 24"
iviinimum basin Size	Duplex - 36" x 36" Fiberglass
2" Maximum Discharge Pipe Diameter	Requires a minimum flow of 21 gpm to maintain a 2 ft./sec. scouring velocity

STANDARD PARTS

Ва	all Bearing - upper	Single row ball - SKF 6203-2Z
Ва	all Bearing - lower	Single row ball - SKF 6204-2Z
Mechanical Seal		Silicon carbide/silicon carbide; Type 16
0	-Ring - motor cover	BUNA-N, AS 568A-166

CONSTRUCTION DETAILS

Power Cable - type	14/3 SJTOW with NEMA Plug		
Motor Cover	Gray cast iron - ASTM A48, Class 30		
Bearing Housing	Gray cast iron - ASTM A48, Class 30		
Seal Housing	Gray cast iron - ASTM A48, Class 30		
Casing	Gray cast iron - ASTM A48, Class 30		
Impeller	Gray cast iron - ASTM A48, Class 30		
Motor Shaft	AISI 300 series stainless steel		
Motor Design	NEMA 48 frame, oil filled with Class F insulation		
Motor Overload Protection	On winding thermal protector - auto reset		
External Hardware	300 series stainless steel		
Impeller Type	Semi-opened with pump out vanes on back shroud		
Cutter	Type 440C hardened stainless steel		
Oil Capacity - motor chamber	.57 gallons		

CUTTER ASSEMBLY

8-hole cutting ring



3 lobe cutter



STANDARD PANEL OPTIONS

Pump Order	K-Se	eries	Boulay Series		
Number	Simplex	Duplex	Simplex	Duplex	
AGS0511	KS19020WF	KD19020WF	S10020	D10020	
AGS0512	KS19020WF	KD19020WF	S10020	D10020	
AGS1011	KS19020WF	KD19020WF	S10020	D10020	
AGS1012	KS19020WF	KD19020WF	S10020	D10020	
AGS2012	KS19020WF	KD19020WF	S10020	D10020	

Note: Boulay Series part numbers have additional available features, see below for more information.

Note: K Series panel part numbers include floats, to order without float switches, remove the 'WF' suffix. Boulay Series panels do not include float switches.



K-SERIES

- NEMA 4X dead front outdoor rated enclosure
- Red LED alarm beacon
- HOA selector switch
- Field wiring terminal block
- Single phase models handle 120, 208 and 230V service
- Three phase models handle 200, 230 and 460V service
- Requires separate control/alarm power feed
- See brochure "BCPKSDPANELS" for additional information





BOULAY SERIES

- NEMA 4X outdoor rated enclosure
- Red alarm beacon
- HOA selector switch
- Through door pump run light(s)
- Through door alarm test and horn silence button
- Single phase models handle 120, 208 and 230V service
- Three phase models handle 200, 230, 460 and 575V service
- Accepts single or dual power feed
- See brochure "BCP3 R11" for additional information on simplex models
- See brochure "BCP4 R14" for additional information on duplex models



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