



AGS series

Axial grinder pumps

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 gpm/12 m³/hr
- Total heads: to 120 ft/ 36.6m 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

Model information

Order number	HP	Phase	Volts	RPM	Float switch style	Maximum amps	Discharge size	Impeller diameter	Power cord	Weight lbs. (kg)
AGS0511	0.5	1	115	3500	Manual / no switch	9	2"	3.5"	20' SJTOW with NEMA plug	65 (29.5)
AGS0511PB					Piggyback float switch					
AGS0512			230		Manual / no switch	4.5				
AGS0512PB					Piggyback float switch					
AGS1011	1		115		Manual / no switch	11		4.25"		
AGS1011PB					Piggyback float switch					
AGS1012			230		Manual / no switch	5.5				
AGS1012PB					Piggyback float switch					
AGS2012	2		208-230		Manual / no switch	15		1.25"		

* part numbers with PB suffix include an A2E series mechanical float switch

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.

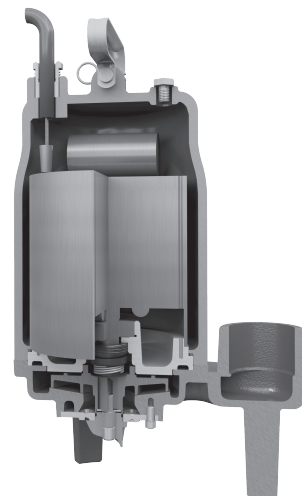
Agency listings



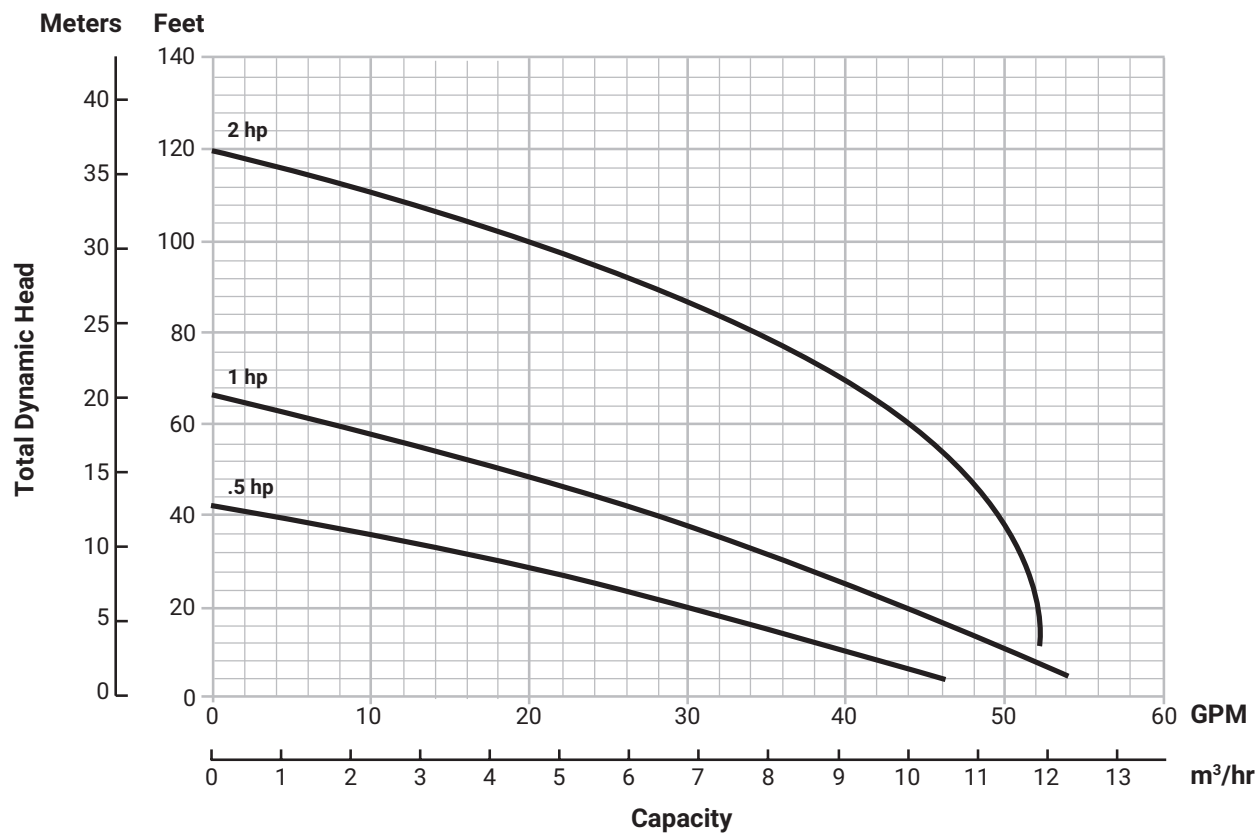
Tested to UL 778 and CSA 22.2 108 Standards
By Canadian Standards Association

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. 2HP version has bare leads



Performance curves

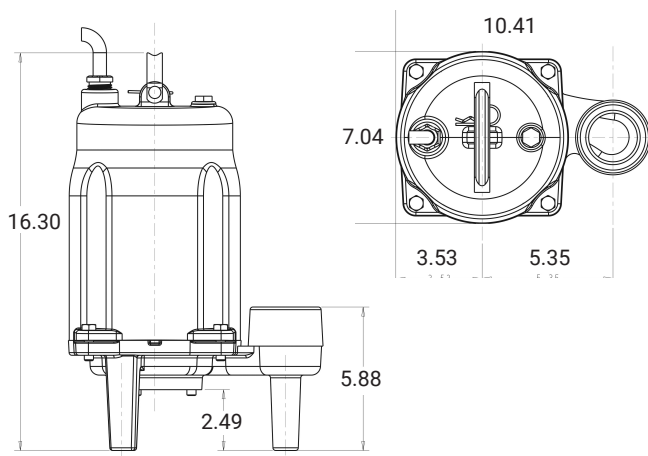


Motor data

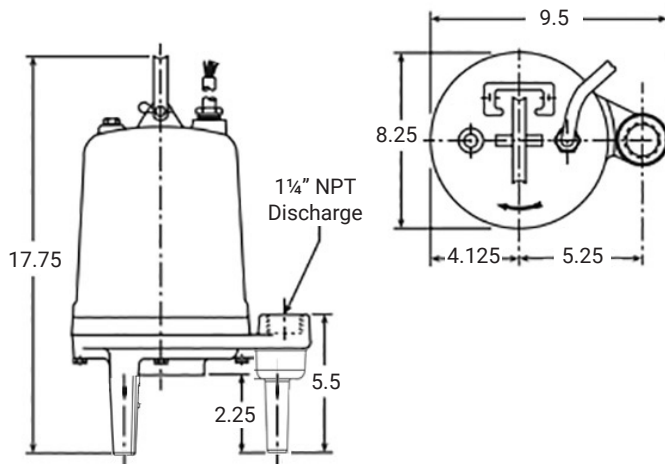
HP	Volts	Phase	RPM	Maximum amps	LRA	Resistance	Power cable	Fuse/circuit breaker
						Line-line		
0.5	115	1	3500	9	46	0.6	SJTOW 14/3	15
	230			4.5	25.5	2.6		10
1	115			11	46	0.6		15
	230			5.5	25.5	2.6		10
2	208-230			15	59	1.1	STOW 14/3	30

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	5/16"
Casing corrosion allowance	1/8"
Maximum working pressure	50 psi
Maximum submergence	50 feet
Minimum submergence	Fully submerged for continuous operation 6" below top of motor for intermittent operation
Maximum environmental temperature	40°C (104°F) continuous operation 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" 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

Ball bearing – upper	Single row ball – SKF 6203-2Z
Ball bearing – lower	Single row ball – SKF 6204-2Z
Mechanical seal	Silicon carbide/silicon carbide; Type 16
O-ring – motor cover	BUNA-N, AS 568A-166

Standard panel options

Pump order number	K-series		Boulay series	
	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



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" for additional information on simplex models
- See brochure "BCP4" for additional information on duplex models

Cutter assembly

8-hole cutting ring



3 lobe cutter



Construction details

Power cable – type	14/3 SJTOW with NEMA Plug
	14/3 STOW with bare leads for 2HP
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

Xylem Inc.

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BAGSSERIES R7 6/2025



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