

# 1GA & 2GA

1½" AND 2" DISCHARGE - SUBMERSIBLE GRINDER PUMPS

## MOTOR DATA

Model	HP	Phase	Volts	RPM	Maximum Amps	Service Factor	Start Amps	Locked Rotor Amps	KVA Code	Full Load Motor Eff.	
1GA71G1HD	3	1	230	3500	13.0	1.5	74.0	52.0	D	77.1	
1GA71G1LD											
1GA81H1GD	5.4				22.0	1.8	120.0	100.0	E	80.0	
2GA81H1KD											
2GA31J1FD	9.4				38.0	1.88	134.0	170.0	D	79.5	
2GA31J1JD											
1GA71H2CD	4	3	200		12.0	1.33	63.0	62.0	F	81.5	
1GA71H3CD			230		10.0		60.0	54.0			
1GA71H4CD			460		5.0		30.0	27.0			
1GA71H5CD			575		4.0		20.0	22.0			
1GA81J2BD	6		200		17.0	1.2	133.0	79.0			79.5
1GA81J3BD			230		15.0		144.0	75.0			
1GA81J4BD			460		7.6		77.0	41.0			
1GA81J5BD			575		6.0		53.0	30.0			
2GA81J2ED			200		17.0		133.0	79.0			
2GA81J3ED			230		15.0		144.0	75.0			
2GA81J4ED	11		460		7.6	1.47	77.0	41.0		G	84.5
2GA81J5ED			575		6.0		53.0	30.0			
2GA31K2AD		200	30.0	258.0	189.0						
2GA31K3AD		230	26.0	229.0	164.0						
2GA31K4AD		460	13.0	113.0	82.0						
2GA31K5AD		575	11.0	84.0	66.0						
2GA31K2DD	200	30.0	258.0	189.0							
2GA31K3DD	230	26.0	229.0	164.0							
2GA31K4DD	460	13.0	113.0	82.0							
2GA31K5DD	575	11.0	84.0	66.0							

## APPLICATION DATA

Maximum Solid Size	N/A
Minimum Casing Thickness	5/16"
Casing Corrosion Allowance	1/8"
Maximum Working Pressure	80 PSI
Maximum Submergence	65 feet
Minimum Submergence	Top of motor dome
Maximum Environmental Temperature	40°C (104°F) continuous operation

## CONSTRUCTION DETAILS

Power Cable - Type	1Ø	14/7 - 2HP, 12/7 - 3HP, 8/4 & 10/3 - 5HP SUBCAB (Single Cable)
	3Ø	14/7- 3HP, 12/7- 5HP, 8/4 & 10/3 - 7.5HP SUBCAB (Single Cable)
Motor Housing	Gray Cast Iron - ASTM A48-Class 35B	
Bearing Housing	Gray Cast Iron - ASTM A48-Class 35B	
Seal Housing	Gray Cast Iron - ASTM A48-Class 35B	
Casing	Gray Cast Iron - ASTM A48-Class 35B	
Impeller	Gray Cast Iron - ASTM A48-Class 35B	
Motor Shaft	AISI 431 Stainless Steel	
Motor Design	Air filled, Permanently Lubricated, Class F Insulation	
Motor Overload Protection	Single and Three Phase require ambient compensated Class 10, quick-trip overloads in the control panel	
Float Leakage Sensor (FLS) (Seal Sensor)	Detects the presence of water in the stator chamber. Connect to a Leakage Sensor Detector Circuit containing a patented Mini CAS (Control and Status) monitoring unit mounted in the control panel.	
Motor Thermal Protection	Normally closed on-winding thermostats open at 260° F (125° C) and close at 158° F (70° C). Connect to patented Mini CAS in control panel.	
External Hardware	300 Series stainless steel	
Impeller Type	Semi-open with pump out vanes on back shroud	
Rotating Cutter	Two blades; chrome alloyed cast iron	
Cutter Ring	Hardened 316L Stainless Steel	

## STANDARD PARTS

Ball Bearing - upper	Single row ball
Ball Bearing - lower	Double row angular contact ball
Mechanical Seals (See Nomenclature page, 11th Character)	Lower - Tungsten Carbide/Tungsten Carbide, Upper - Carbon/Ceramic
	Lower - Ceramic/Ceramic, Upper - Carbon/Ceramic
	Lower - Tungsten Carbide/Ceramic, Upper - Carbon/Ceramic
O-Ring - bearing housing	BUNA-N
O-Ring - motor housing	BUNA-N

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