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## **BGA CENTRIFUGAL SLURRY PUMPS**

The BGA Horizontal Centrifugal Slurry Pumps are designed for handling abrasive solids and corrosive liquids. It is accepted throughout the world for its proven dependability in handling these materials in any volume up to 10,000 GPM. The supremacy of the pump rests on its original principle of operation and our experience in simplifying design for ease of maintenance and selecting materials of construction for resistance to wear.

With most centrifugal pumps, discharge pressure at the gland increases as impeller speed increases. Therefore, to prevent leakage, the seal at the gland must be tight and gland water must be added to lubricate and cool the gland and to flush the material being pumped away from the gland. This is not the case with the BGA Centrifugal Pump on normal slurry applications. When the pump is operating, the semi-open impeller creates an exclusive seal inside the pump away from the gland. The seal prevents the material being pumped from coming into contact with the gland. The packing is loose, so that air may pass through the gland to the seal, not through the seal. The only pressure at the gland is atmospheric pressure, even with increased impeller speed. Since the material being pumped cannot come into contact with gland and there is no pressure increase at the gland, sealing water to lubricate and flush the gland is eliminated. The result is no leakage while the pump is operating and greatly reduced shaft wear. The impeller's semi-open design also eliminates clogging.



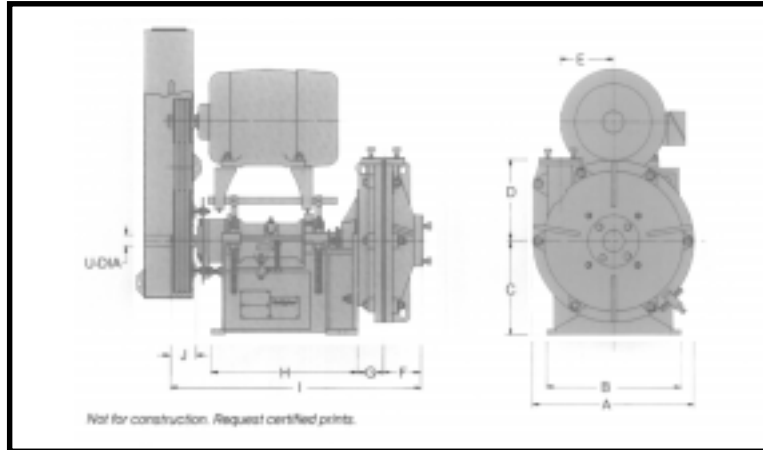
BGA 1-1/2 X 2 Horizontal Centrifugal Slurry Pump

Some advantages of the BGA Horizontal Slurry Pumps are:

1. Semi open rubber covered impeller prevents clogging and gives maximum service.
2. Expelling vanes on reverse side of impeller create exclusive seal.
3. Gland bushing and shaft sleeve of alloy to suit the service desired.
4. Adjustable bearing assembly compensates for impeller wear.
5. Heavy duty bearings designed for 50,000 hours (B-10 life) are utilized.
6. Packing gland prevents leakage when pump is not operating.
7. Heavy duty replaceable rubber liners vulcanized to metal reinforcing plates greatly extend pump life.

# GENERAL DIMENSIONS

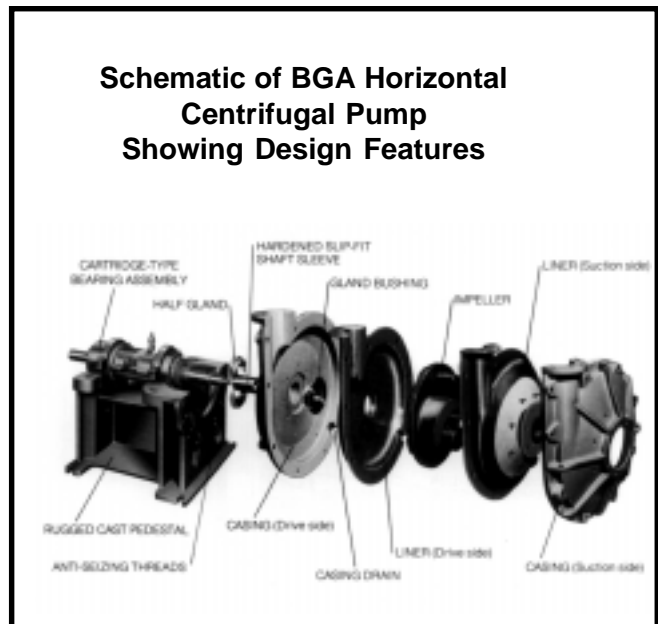
## BGA HORIZONTAL CENTRIFUGAL SLURRY PUMP



Dimensions in Inches

Pump Size		A	B	C	D	E	F	G	H	I	J	U	Approx. Weight
Discharge	Suction												
1½	2	16½	15½	9	8½	5½	2½	2¾	13½	25¼	3¼	1½	300
2	2½	22½	18½	13	11½	7½	5½	3½	20½	34¾	3½	1½	600
3	4	26½	24	17	14½	8¾	6	2¾	24	39¾	5	2½	1000
4	6	29½	24	17	16	9½	6½	2½	24	40½	5	2½	1100

Pump Capacities		
Pump Size	TDH (Feet)	Capacity* (GPM)
1-1/2 x 2	10	160
	83	90
	58	160
2 x 2-1/2	10	400
	160	90
	143	400
3 x 4	10	750
	140	300
	110	750
4 x 6	10	1400
	160	700
	130	1400



\* Capacities in chart are based on water and non-abrasive service. For abrasive service, capacities are approximately 40% to 60% of above capacities.

# TECHNICAL SPECIFICATIONS

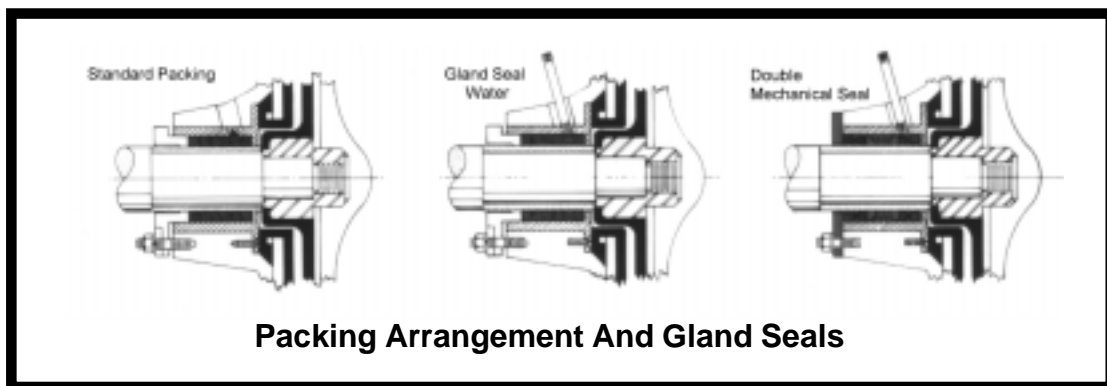
BGA Centrifugal Slurry Pumps are manufactured with cast iron , white iron, stainless steel or alloy and replaceable liners. The replaceable liner pumps have non-collapsible elastomer liners secured to casings by studs. The liner material varies according to the application, but each is vulcanized to metal reinforcing plates for heavy duty service.

Most BGA Centrifugal Slurry pumps are driven by electric motors, mounted on overhead adjustable motor brackets. A v-belt drive permits the selection of correct operating speeds. Correct speed is essential for a smooth, non-surging flow when handling suspended solids, since control of the output by throttling is usually impractical.

Variable speed drives, utilizing AC Frequency inverters allow precise selection of pump speeds ranging from 20% to 100%. These are ideal for varying operating conditions.

The bearing assemblies, including shafts, are pre-assembled as one unit. Each has heavy duty oil lubricated bearings designed for 50,000 hours, B-10 life. The housings are cast iron. Bearings are protected by grease packed oil seals. Double oil seals are used for protecting the wet end bearings of the 3 x 4 and larger models.

The whole bearing assembly is moved forward or backwards, by means of a take-up, to adjust the impeller clearance.



The standard Packing Arrangement is for normal slurry pumping, where moderate suction heads don't require the use of gland water.

Gland Seal Water is required only where a high suction head or a suction lift condition exists. Uses from 1 to 5 GPM of water (depending on the pump size) at 15 PSI.

A Double Mechanical Seal is usually recommended for corrosive slurry applications where isolation of stuffing box from product is desirable. Injection liquid is required.