GOULDS PUMPS



High Pressure Centrifugal Booster Pump

MODEL

45HB, 70HB

APPLICATIONS

Wide variety of industrial, commercial and agricultural uses, especially:

- High rise buildings
- Multiple dwelling buildings
- Reverse osmosis systems
- High pressure cleaning
- Spraying systems
- Booster service

SPECIFICATIONS

Pump

- Capacities: to 100 GPM
- Heads: to 760 feet.
- Pipe connections:
  Suction 2" NPT
  Discharge 2" NPT.
- Temperature: 160ºF (71ºC) maximum.
- Inlet pressure: 100 PSI maximum.
- Rotation: right hand, i.e., clockwise when viewed from motor end.

Motor

- Open drip-proof or TEFC enclosure
  60 Hz, 3500 RPM.
  Threaded shaft extension.
- Single phase:
  3 HP 115/208–230 V
  5 HP 208–230 V
  7½ HP 208–230 V.
- Three phase:
  3–10 HP 208–230/460 V.

FEATURES

■ **Multi-Stage Design:** This configuration provides a steady, quiet and vibration-free operation for years of trouble-free service.

■ **Impellers and Diffusers:** Glass filled thermoplastic. Precision molded for high efficiencies.

■ **Bowls:** Constructed with 300 series stainless steel. Rabbet lock for positive alignment – no gaskets required.

■ **Mechanical Seal:** Carbon/ceramic faces. BUNA elastomers 300 series stainless steel metal parts.

■ **Motor:** Close-coupled design. Ball bearings carry all radial/axial thrust loads. Designed for continuous operation. All ratings are within working limits of the motor.

WARNING: This is a booster pump. It has no lift capability. DO NOT RUN DRY. DO NOT DEADHEAD.

Goulds Pumps is ISO 9001 Registered.

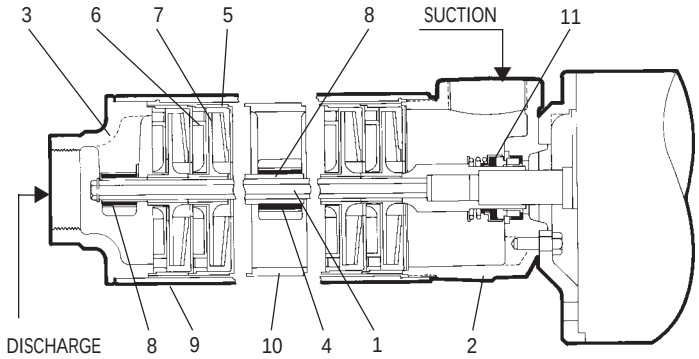
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B45-70HB

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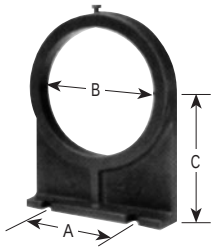
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COMPONENTS

Item No.	Description	Material
1	Hex shaft and coupling	300 series stainless steel
2	Suction housing	Brass (ASTM B584)
3	Discharge head	Brass (ASTM B584)
4	Shaft sleeve	300 series stainless steel
5	Bowl	300 series stainless steel
6	Diffuser	Glass-filled thermoplastic
7	Impeller	Glass-filled thermoplastic
8	Marine bearing	BUNA
9	Casing	300 series stainless steel
10	Intermediate bearing spider	Brass (ASTM B584)
11	Mechanical seal	Carbon/ceramic faces, BUNA elastomers, 300 series stainless steel metal parts.



Optional Support Leg

OPTIONAL SUPPORT LEG – dimensions (in inches)

Model	Frame	A	B	C
AM200	182/184	4⅛	5⅜	4½
AM201	213/215	4⅛	5⅜	5¼

NOTE: Support leg is not required for 145 frame motors.

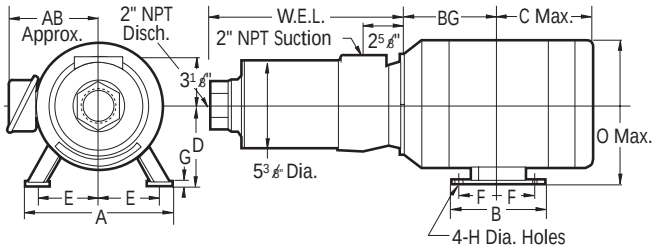
MODELS

Order No.	HP	No. of Stages	Phase	Enclosure	Frame	W.E.L.	Wt. (lbs.)
45HB13012	3	3	1	ODP	182	11½	88
45HB23012	3	2	1	TEFC	184	10⅜	101
45HB13035	3	3	3	ODP	145	11½	59
45HB23035	3	2	3	TEFC	182	10⅜	83
45HB15013	5	5	1	ODP	184	13⅞	100
45HB25013	5	4	1	TEFC	213	12¾	147
45HB15035	5	5	3	ODP	182	13⅞	80
45HB25035	5	4	3	TEFC	184	12¾	99
45HB17513	7½	7	1	ODP	213	16¼	169
45HB17535	7½	7	3	ODP	184	16¼	103
45HB27535	7½	6	3	TEFC	213	15⅛	150
45HB11135	10	10	3	ODP	213	21½	155
45HB21135	10	8	3	TEFC	215	17½	190
70HB13012	3	2	1	ODP	182	10⅜	86
70HB23012	3	2	1	TEFC	184	10⅜	99
70HB13035	3	2	3	ODP	145	10⅜	57
70HB23035	3	2	3	TEFC	182	10⅜	81
70HB15013	5	4	1	ODP	184	12¾	98
70HB25013	5	3	1	TEFC	213	11½	145
70HB15035	5	4	3	ODP	182	12¾	78
70HB25035	5	3	3	TEFC	184	11½	97
70HB17513	7½	6	1	ODP	213	15⅛	170
70HB17535	7½	6	3	ODP	184	15⅛	101
70HB27535	7½	5	3	TEFC	213	13⅞	148
70HB11135	10	9	3	ODP	213	20¼	153
70HB21135	10	7	3	TEFC	215	17½	188

DIMENSIONS – determined by motor (in inches)

Frame	A	AB	B	BG	C	D	E	F	G	H	O
145	6½	5¼	5 15/16	4⅞	6	3½	2¾	2	5/32	11/32	6⅝
182/184	8½	6	6½	5¾	9 9/16	4½	3¾	2¼	5/32	13/32	8½
213/215	9½	7⅜	8	7¼	9 7/16	5¼	4¼	2¾	7/32	13/32	10 3/16

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



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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.