# DB SERIES
## MODEL DB22

**5 YEAR WARRANTY**

## DB22 PERFORMANCE 3450 RPM

FLOW (m³/hr)

Curve Legend
#1- 7.25" (184.2 mm)
#2- 7.00" (177.8 mm)
#3- 6.50" (165.1 mm)
#4- 6.00" (152.4 mm)
#5- 5.50" (139.7 mm)
#6- 5.00" (127.0 mm)
#7- 4.50" (114.3 mm)

HEAD (ft)

HEAD (m)

NPSHR (ft)

NPSHR (m)

12.5 BHP
10 BHP
7.5 BHP
5 BHP
3 BHP

20%  45%  55%  62%
30%  60%  63%
40%  50%
50%
45%

Minimum Continuous Flow
10 US gpm (2.3 m³/hr)

NPSHR- #7 Imp
NPSHR- #1 Imp

FLOW (US gpm)
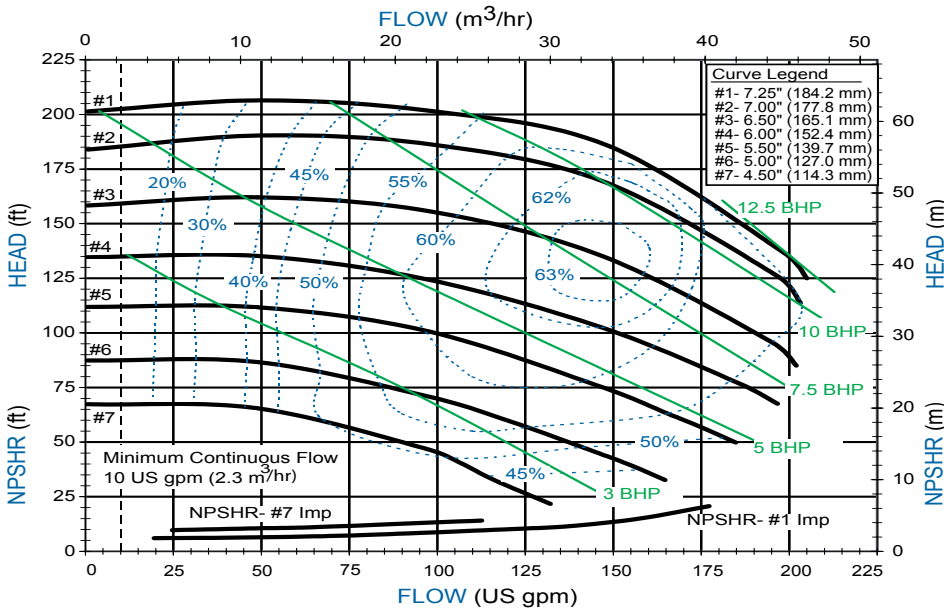
## DB22 PERFORMANCE 2900 RPM

Curve Legend
#1- 184.2 mm (7.25")
#2- 177.8 mm (7.00")
#3- 165.1 mm (6.50")
#4- 152.4 mm (6.00")
#5- 139.7 mm (5.50")
#6- 127.0 mm (5.00")

HEAD (m)

NPSHR (m)

5.5 kW
4.0 kW
3.0 kW
2.2 kW
1.1 kW
1.5 kW

20%  40%  55%
45%  60%  62%
30%  50%
55%

Minimum Continuous Flow
2.3 m³/hr

NPSHR- #6 Imp
NPSHR- #1 Imp

FLOW (m³/hr)
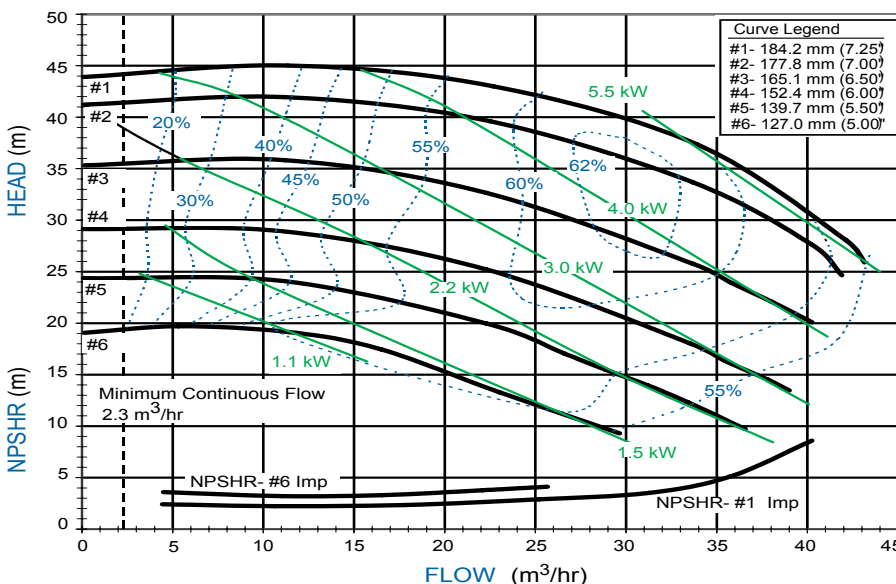
## FEATURES & CAPABILITIES

+ Five-year warranty
+ Extended run dry ability (with carbon bushing)
+ High operating efficiency
+ Easy set, measurement-free drive
+ Polypropylene or PVDF construction
+ Open or closed impeller options
+ Powerful neodymium magnets
+ Close-coupled design
+ Threaded (NPT or BSP), union or flange connections
+ 1/8 inch impeller trims available
+ Vertical installation option with IEC motor
+ Mounts to NEMA and IEC (B5 and B14) motor frames
+ Replaceable shaft
+ ISO 1940 G2.5 balancing
+ CE certified/ATEX available
+ Working pressure up to 90 psi (6.2 bar)
+ Specific gravity over 1.8
+ Viscosity up to 150 cP
+ Polypropylene—180° F (82° C)
+ PVDF—220° F (104° C)

## APPLICATIONS

+ Chemical processing
+ Plating
+ Water and wastewater
+ Electronics
+ Pharmaceuticals
+ Wet scrubber
+ Pulp and paper
+ Heat exchanger

Notes: Performance curves above are based on closed impellers. Contact the factory for performance based on open impellers.
Maximum power @ 3450 RPM is 13 hp (9.7 kW). [Consult factory for applications above 10 hp (7.5 kW)]. At 2900 RPM, maximum power is 7.5 kW (10 hp).

# DB SERIES

## Specifications

| | Description | Polypropylene | PVDF |
|---|---|---|---|
| 1 | Impeller housing | Glass-fiber reinforced polypropylene (GF PP) | Carbon-fiber reinforced PVDF (CF PVDF) |
| 1A | Impeller housing thrust ring | High purity alumina ceramic or silicon carbide (SiC) | |
| 2 | O-ring | FKM, EPDM, Simriz®, or Kalrez | |
| 3 | Impeller | GF PP | CF PVDF |
| 3A | Impeller thrust ring | Fluorosint® or SiC | |
| 4 | Inner drive | Neodymium iron boron magnets encapsulated in unfilled polypropylene | Neodymium iron boron magnets encapsulated in unfilled PVDF |
| 5 | Bushing | Carbon, PTFE, or SiC | |
| 6 | Shaft | High purity alumina ceramic, Hastelloy® C, or SiC | |
| 7 | Barrier | GF PP | CF PVDF |
| 7A | Barrier thrust ring | High purity alumina ceramic | |
| 8 | Motor adapter | Ductile iron | |
| 9 | Outer drive | Nickel-plated neodymium iron boron magnets/steel | |
| 10 | Motor adapter sealing kit (NEMA only) | Buna N, FKM, EPDM | |
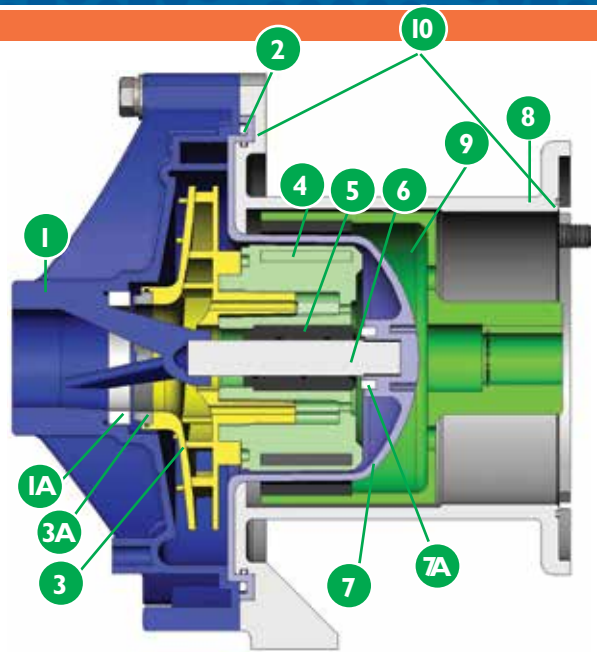


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## Dimensions
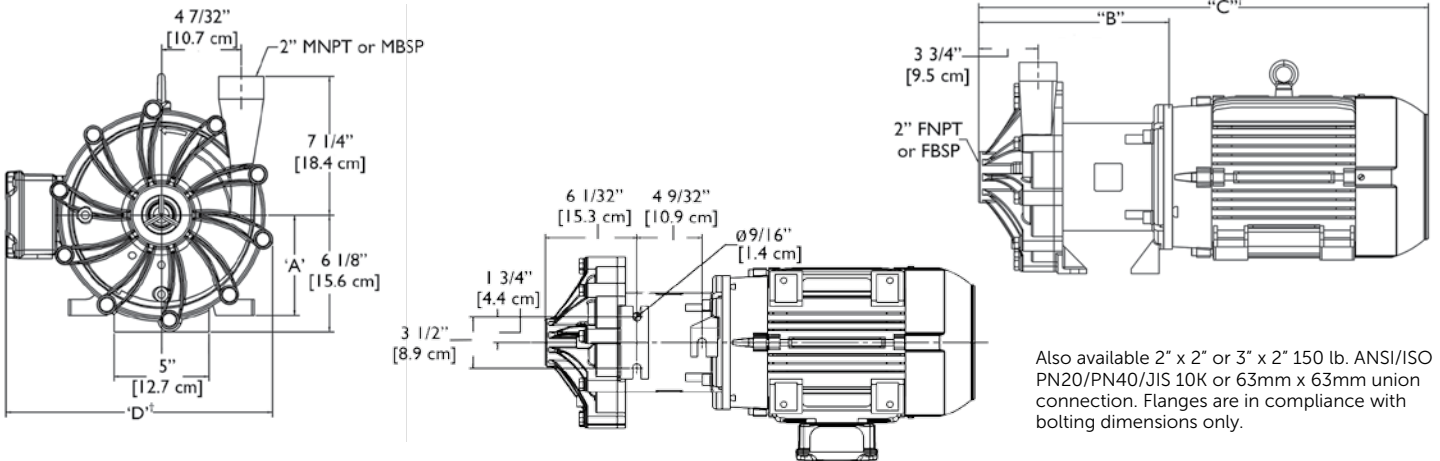


Also available 2" x 2" or 3" x 2" 150 lb. ANSI/ISO PN20/PN40/JIS 10K or 63mm x 63mm union connection. Flanges are in compliance with bolting dimensions only.

| Motor Frame | A | B | C | D† | lbs. [kg] PP | lbs. [kg] PVDF |
|---|---|---|---|---|---|---|
| NEMA 145TC | 3-1/2" [8.8 cm] | 12-5/16" [31.2 cm] | 23-17/32" [59.8 cm] | 11-11/16" [29.7 cm] | 48 [21.8] | 44 [20.0] |
| NEMA 182/184TC | 4-1/2" [11.4 cm] | 11-13/32" [29.0 cm] | 26-7/16" [67.2 cm] | 12-15/32" [31.7 cm] | 40 [18.1] | 45 [20.4] |
| NEMA 213/215TC | 5-1/4" [13.3 cm] | 12" [30.5 cm] | 28-5/16" [71.9 cm] | 14-1/32" [35.7 cm] | 45 [20.4] | 49 [22.2] |
| IEC 90 w/B14 or B5 | 3-17/32" [9.0 cm] | 12-5/16" [31.2 cm] | 23-5/16" [59.2 cm] | 11-11/16" [29.7 cm] | 48 [21.8] | 52 [23.6] |
| IEC 100 w/B14 or B5 | 3-15/16" [10.0 cm] | 12-5/16" [31.2 cm] | 24-23/32" [62.8 cm] | 12-1/8" [30.8 cm] | 48 [21.8] | 52 [23.6] |
| IEC 112 w/B14 or B5 | 4-13/32" [11.2 cm] | 12-5/16" [31.2 cm] | 25-15/32" [64.7 cm] | 12-1/8" [30.8 cm] | 48 [21.8] | 52 [23.6] |
| IEC 132 w/ B14 or B5 | 5-3/16" [13.0 cm] | 12-3/8" [31.4 cm] | 28-15/32" [72.3 cm] | 14-3/16" [36.0 cm] | 51 [23.1] | 55 [24.9] |

Note: Contact factory for dimensions on flanged or union models. Dimensions and weights are for reference only.
†Varies with motor manufacturer.

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