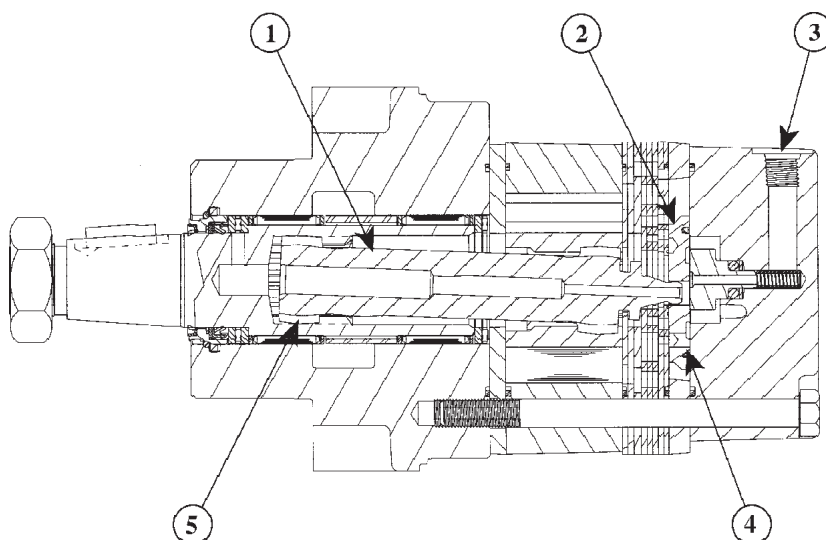


Features

- ❶ **Heavy-Duty Drive Link** is up to 30% stronger than competitive designs for longer life.
- ❷ **Three-Zone Orbiting Valve** precisely meters oil to produce exceptional volumetric efficiency.
- ❸ **Standard Case Drain** increases shaft seal life by reducing pressure on seal.
- ❹ **Rubber Energized Steel Face Seal** does not extrude or melt under high pressure or high temperature.
- ❺ **Forced Drive Link Lubrication** reduces wear and promotes longer life from motor.

HB Series



Peak Efficiency For Continuous Duty

The HB Series motor is the leader in its class, offering high efficiency with rugged durability. The three-zone orbiting disk valve, laminated manifold and Roller Stator® motor work harmoniously to produce high overall efficiencies over a wide range of operating conditions. The standard case drain increases shaft seal life by reducing internal pressures experienced by the seal. The case leakage is also directed across all driveline components, increasing motor life. An internal drain option is also available. At the heart of the motor is a heavy-duty driveline, offering 30% more torque capacity than competitive designs. These features make the HB Series motor the motor of choice for applications requiring peak efficiency for continuous operation.

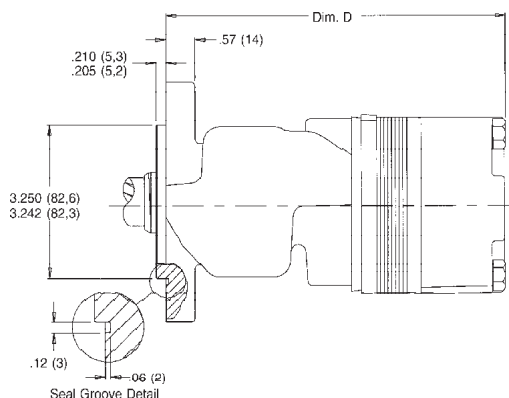
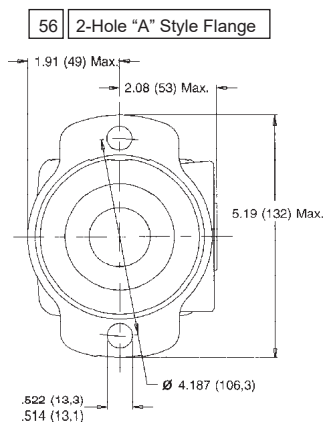


Specifications

Code	Displacement in³/rev (cm³/rev)	Max Speed RPM		Max Flow GPM (LPM)		Max Torque lb-in (Nm)			Pressure ΔPSI(ΔBar)		
		Cont.	Inter.	cont.	Inter.	Cont.	Inter.	*Stall	Cont.	Inter.	Peak
03	3.2 (52)	680	830	10 (38)	12 (45)	1200 (135)	1400 (158)	885 (100)	3000 (207)	3500 (241)	4000 (276)
04	4.6 (76)	670	950	14 (53)	20 (76)	1700 (191)	1975 (222)	1370 (155)	3000 (207)	3500 (241)	4000 (276)
05	5.4 (89)	680	840	16 (61)	20 (76)	2000 (225)	2400 (270)	1670 (189)	3000 (207)	3500 (241)	4000 (276)
06	6.8 (111)	680	850	20 (76)	25 (95)	2650 (298)	3100 (349)	2315 (261)	3000 (207)	3500 (241)	4000 (276)
08	7.7 (127)	580	740	20 (76)	25 (95)	3000 (338)	3500 (394)	2560 (289)	3000 (207)	3500 (241)	4000 (276)
10	10.0 (164)	460	580	20 (76)	25 (95)	3975 (448)	4550 (512)	3530 (397)	3000 (207)	3500 (241)	4000 (276)
12	12.5 (205)	370	460	20 (76)	25 (95)	5050 (569)	5800 (653)	4520 (509)	3000 (207)	3500 (241)	4000 (276)
14	15.5 (254)	290	370	20 (76)	25 (95)	6250 (704)	7100 (799)	5985 (674)	3000 (207)	3500 (241)	4000 (276)
18	17.9 (293)	250	320	20 (76)	25 (95)	7200 (811)	8250 (929)	6915 (779)	3000 (207)	3500 (241)	4000 (276)
24	24.9 (409)	180	230	20 (76)	25 (95)	8400 (946)	9050 (1019)	7850 (887)	2500 (172)	2750 (189)	3000 (207)

* Stall torque measured at 1 RPM at continuous pressure per SAE J746b.

Dimensions



"A" Style Flange

Disp. Code	Dim. D in (mm)	Weight lbs (kg)
03	7.68 (195)	19.5 (8,8)
04	7.82 (199)	20.0 (9,1)
05	7.90 (201)	20.2 (9,2)
06	8.04 (204)	20.7 (9,4)
08	8.14 (207)	21.0 (9,5)
10	8.36 (212)	21.7 (9,8)
12	8.61 (219)	22.5 (10,2)
14	8.91 (226)	23.4 (10,6)
18	9.15 (232)	24.3 (11,0)
24	9.86 (251)	26.4 (12,0)

HB motor weights vary ± 2 lb. (.9 kg) depending upon motor configuration.

Subtract .71 in. (18mm) from dimension for motors with 0, 1, or 7 endcover.

*Ordering Information

HB
DISPLACEMENT

HOUSING

SHAFT

PORTS

OPTIONS

Code	Displacement
03	3.2 in ³ /r (52 cm ³ /r)
04	4.6 in ³ /r (76 cm ³ /r)
05	5.4 in ³ /r (89 cm ³ /r)
06	6.8 in ³ /r (111 cm ³ /r)
08	7.7 in ³ /r (127 cm ³ /r)
10	10 in ³ /r (164 cm ³ /r)
12	12.5 in ³ /r (205 cm ³ /r)
14	15.5 in ³ /r (254 cm ³ /r)
18	17.9 in ³ /r (293 cm ³ /r)
24	24.9 in ³ /r (409 cm ³ /r)

Code	Housing
55	4-Hole Square Mount
56	2-Hole "A" Style
57	Wheel Mount
58	4-Hole "A" Style
59	6-Hole "A" Style

Code	Shafts
50	13 Tooth Spline
52	6-B Spline
53	1-1/4" Tapered
54	1-1/4" Straight
55	14 Tooth Spline
56	1" Straight
57	25mm Straight
59	32mm Straight

Code	Ports
0	Side Ports 9/16-18 O-ring
1	180° Ports 1-1/16-12 O-ring
2	180° Ports 1/2-14 BSP.F
3	Rear Ports 1/2-14 BSP.F
6	Offset Ports 7/8-14 O-ring
7	Rear Ports 7/8-14 O-ring
8	Offset Ports 1/2-14 BSP.F
9	Manifold Ports 1/2-14 BSP.F

Code	Options
O	No Options
F	Free Turn
D	Internal Drain (Low Pressure)
X	Solid Nut
P	Pack Nut
*R	Valve Cavity
*R1	1000 PSI (69 Bar) Relief Valve Installed
*R2	2000 PSI (138 Bar) Relief Valve Installed
*R3	3000 PSI (207 Bar) Relief Valve Installed

Pac Nut is the registered trademark of ITW-Anchor Stampings.

*Available with 0, 6, and 7 ports only.