

High Torque Vane Motor

25HM , 35HM , 45HM



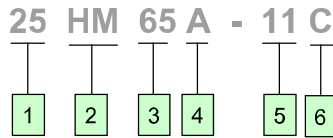
Features and Handling

High speed and high-pressure motors ranging from 43.9 to 193.2 cm³/ r with 172 bar of maximum pressure and 9 torques rating choices. The internal inlet chambers are equally and diametrically opposed resulting in balanced in radial loads.

Thus, the motors are hydraulically balanced which reduced wear and heat from friction.

These motors provide 90% efficiency due to dual pressure plates, which produced low internal leakage. Motors are bi-rotational, simply reversed by reversing in flow direction.

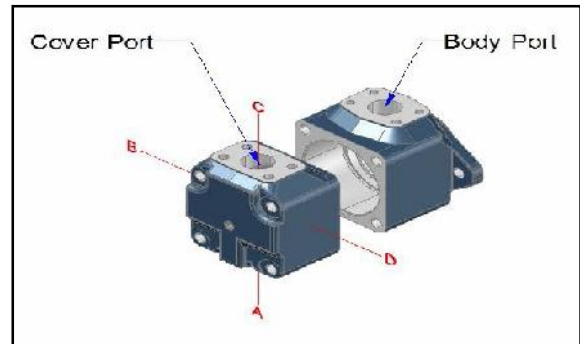




- 1** Model Series
25HM, 35HM, 45HM
- 2** Vane Type Motor (Externally drained)
- 3** Ring size-Nominal torque Rating
(lb.in./100psi)
25HM - 30, 42, 55, 65
35HM - 80, 95, 115
45HM - 130, 155, 185

- 5** Shaft
1 - Straight keyed
11 - Splined
- 6** Cover Port positions
(Viewed from cover end)
A - Opposite body port
B - 90° CCW body port
C - Inline with body port
D - 90° CW from body port

- 4** Mounting Flange and Port Connections
A - SAE type 2 - bolt mounting Flange and
SAE 4- bolt flange connections



Specifications

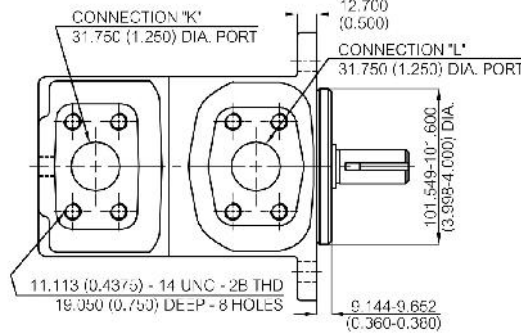
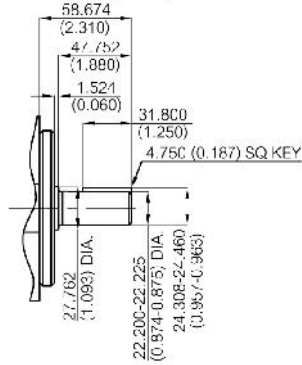
Vane Motor HM Series

Model Series	Torque Nm/6, 9bar (lb in/100 psi)	Displacement cm ³ /r (in ³ /r)	Flow input/ required @ 1200 r/min L/min (USgpm)	Maximum speeds & pressures	Approx Weight kg (lb)
25HM	3.3 (30)	29.0 (1.77)	34.8 (9.19)	3600 r/min @ 34 bar (500 psi) ¹⁾ 4000 r/min @ 34 bar (500 psi) ²⁾	18 (40)
	4.7 (42)	43.9 (2.68)	52.6 (13.9)		
	6.2 (55)	57.7 (3.52)	69.3 (18.3)		
	7.3 (65)	68.7 (4.19)	82.5 (21.8)		
35HM	9.0 (80)	83.6 (5.10)	100.3 (26.5)		29 (64)
	10.7 (95)	100.3 (6.12)	120.4 (31.8)		
	13.0 (115)	121.9 (7.44)	146.1 (38.6)		
45HM	14.7 (130)	138.0 (8.42)	165.4 (43.7)	2400 r/min @ 155 bar (2250 psi) ¹⁾ 3000 r/min @ 172 bar (2500 psi) ²⁾	39 (85)
	17.5 (155)	163.2 (9.96)	195.7 (51.7)		
	20.9 (185)	193.2 (11.79)	232.0 (61.3)		

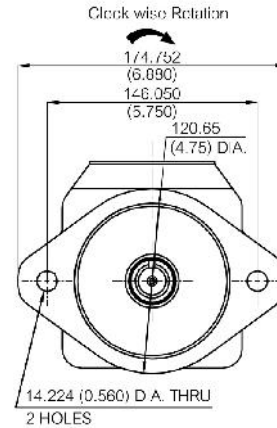
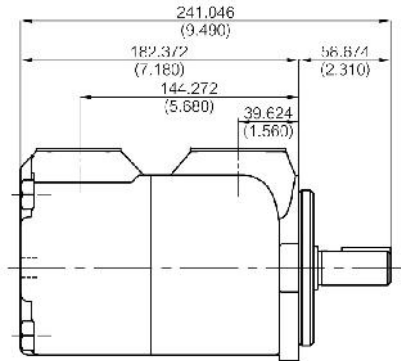
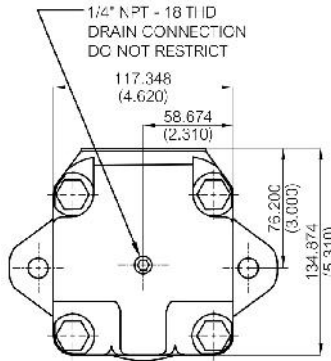
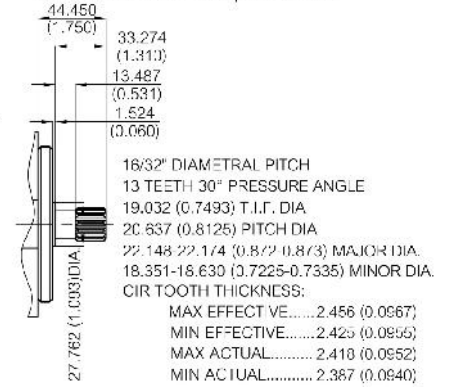
1) Continuous Operation
2) Intermittent Operation

25HM

25HM Series
No.1 Straight-keyed Shaft

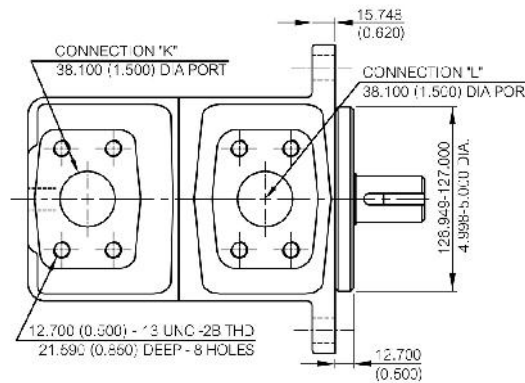
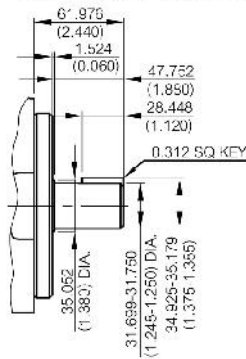


25HM Series
No.11 SAE Involute Spline Shaft

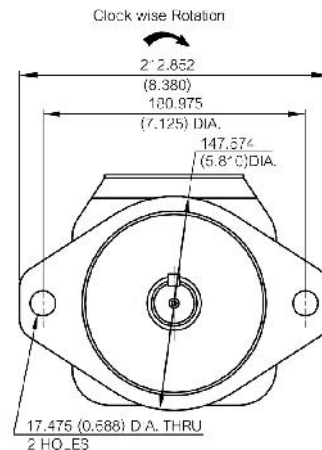
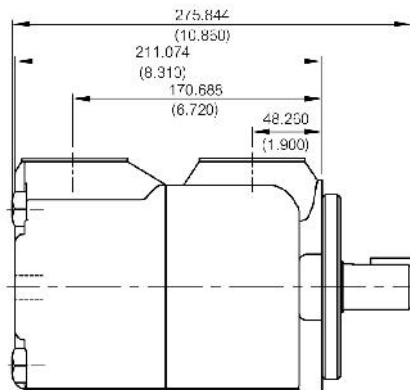
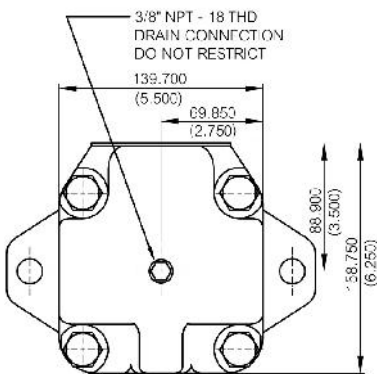
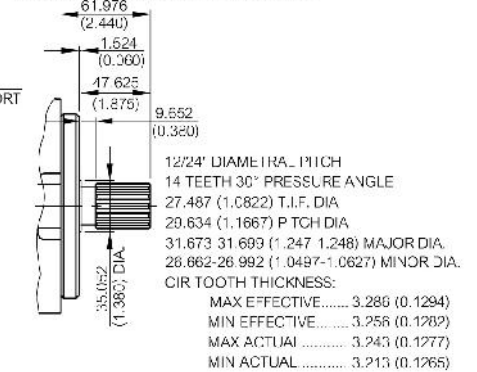


35HM

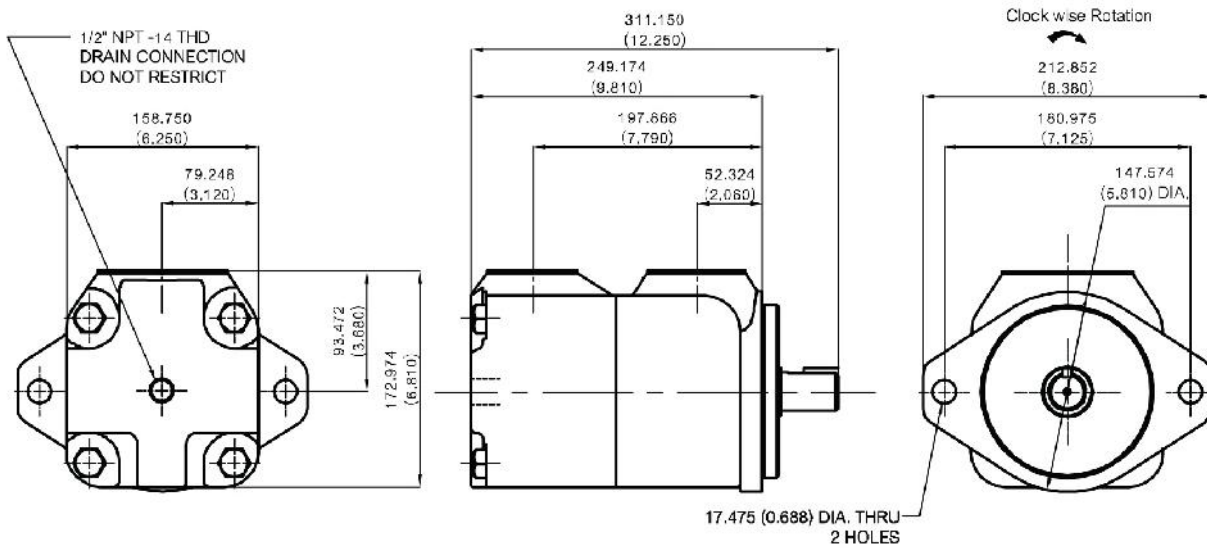
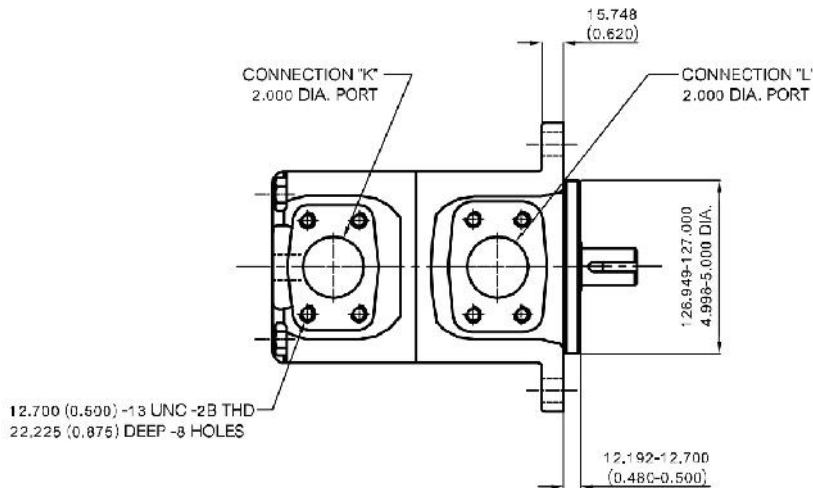
35HM Series
No.1 Straight - keyed Shaft



35HM Series
No.11 SAE Involute Spline Shaft

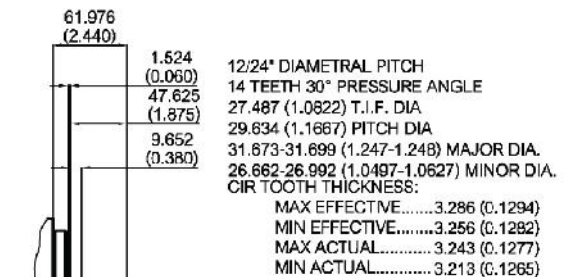
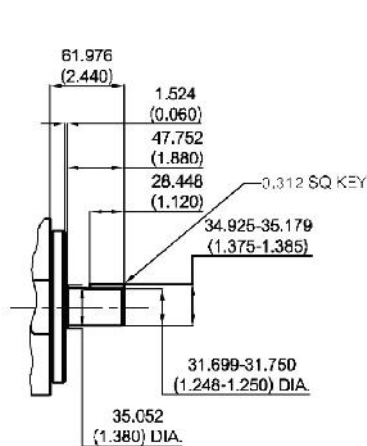


45HM



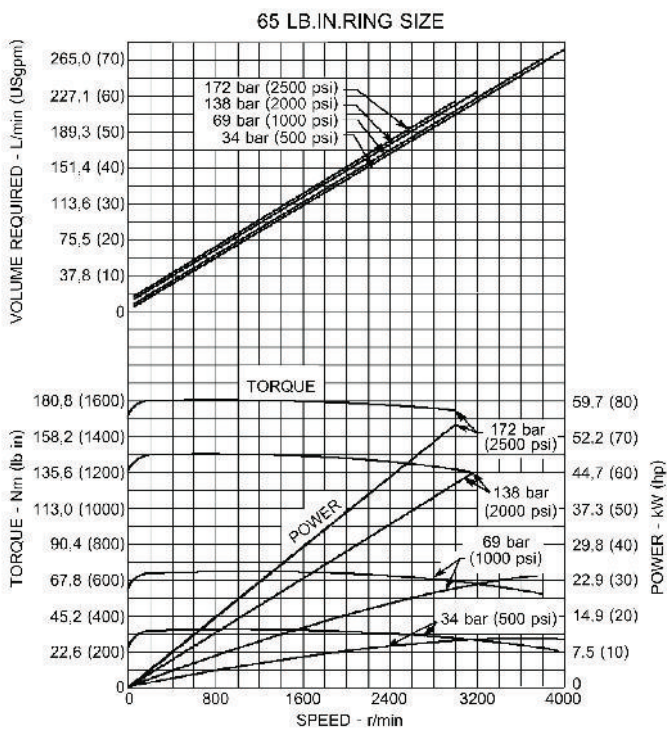
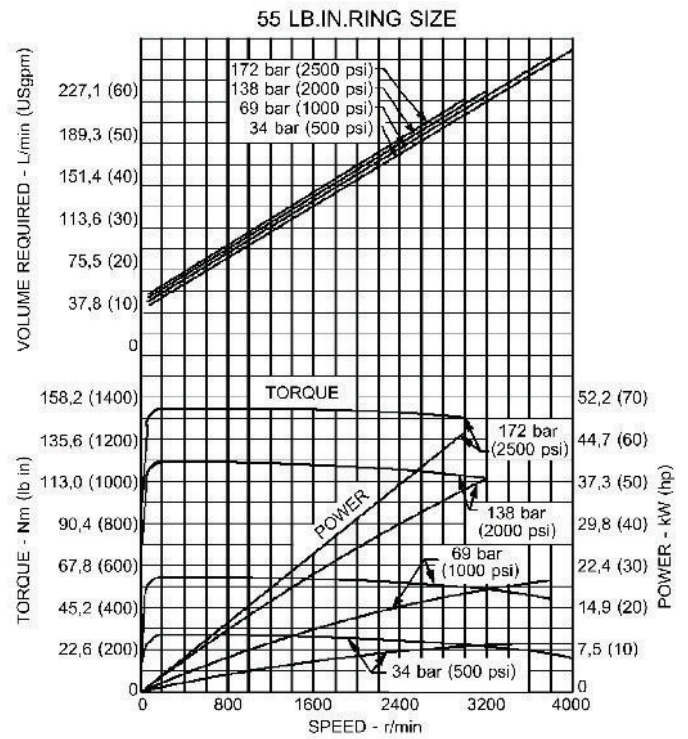
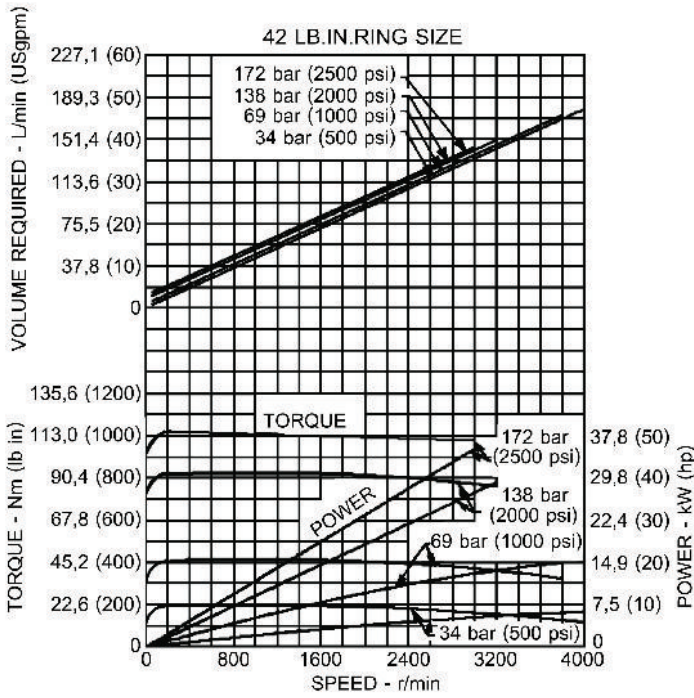
45M Series
No.1 Straight-keyed Shaft

45M Series
No.11 SAE Involute Spline Shaft



Based on SAE 10W, temperature 49°C (120 °F), viscosity 32 cSt (150 SUS)

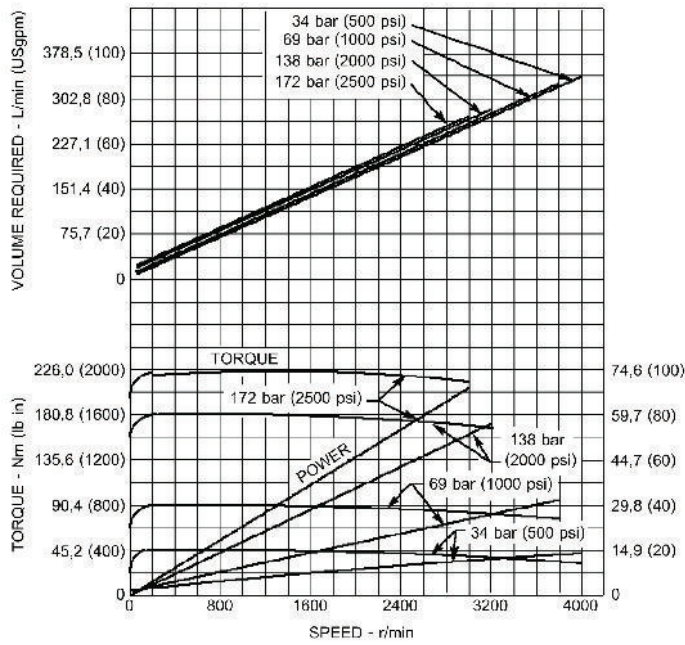
Starting torque is 65% (minimum) of 400 r/min torque



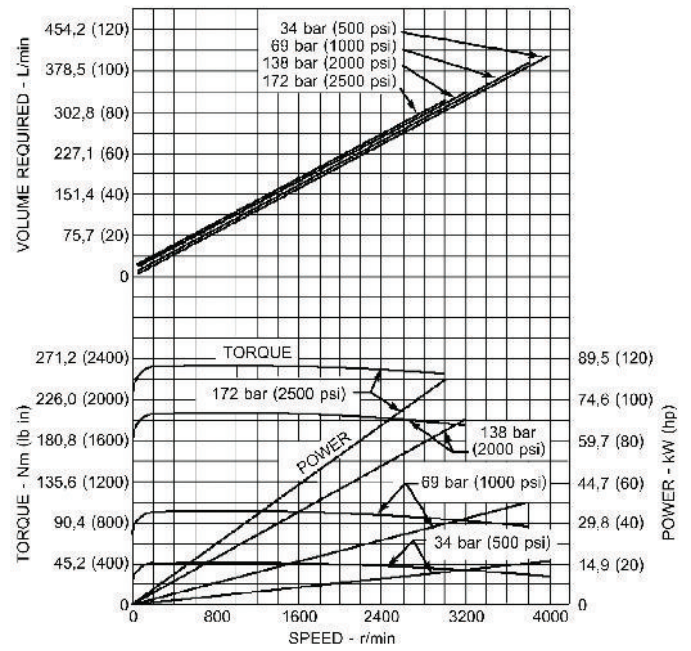
Based on SAE 10W, temperature 49 °C (120 °F), viscosity 32 cSt (150 SUS)

Starting torque is 65% (minimum) of 400 r/min torque

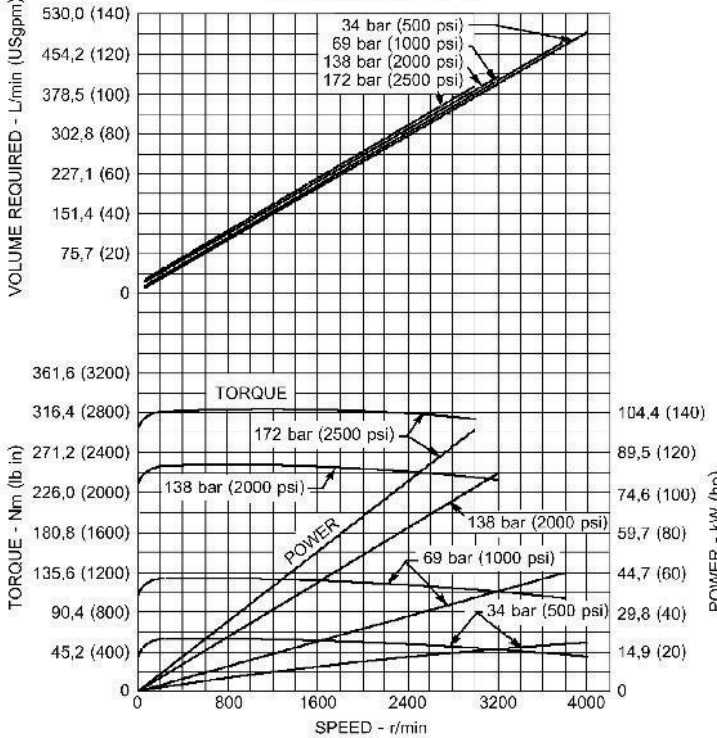
80 LB.IN.RING SIZE



95 LB.IN.RING SIZE



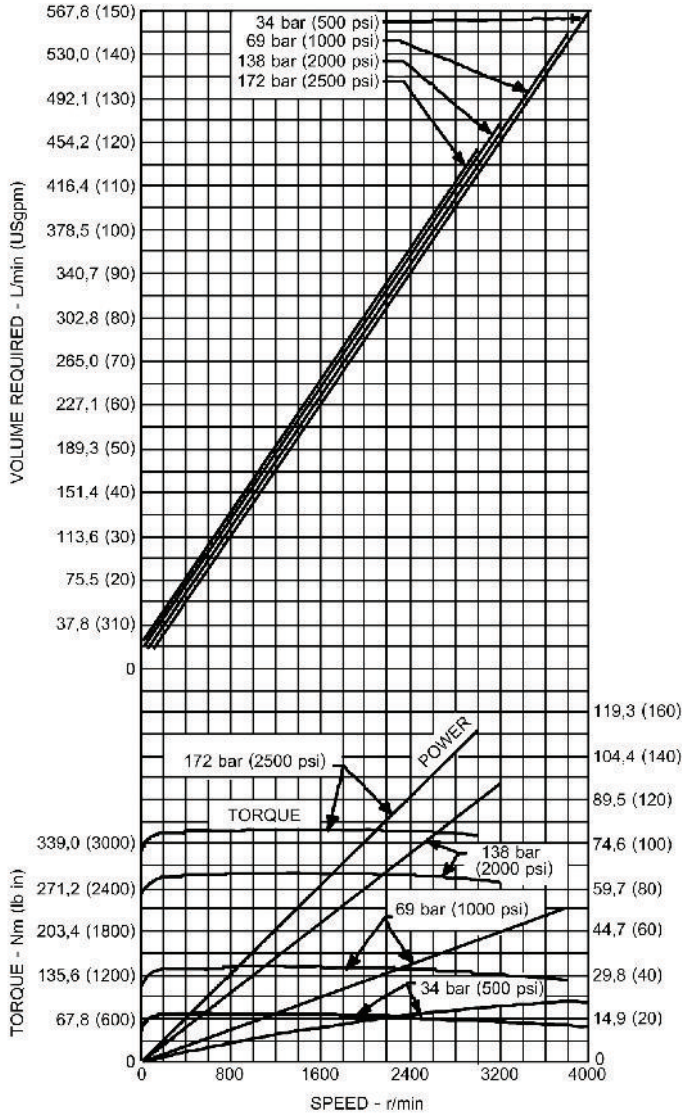
115 LB.IN.RING SIZE



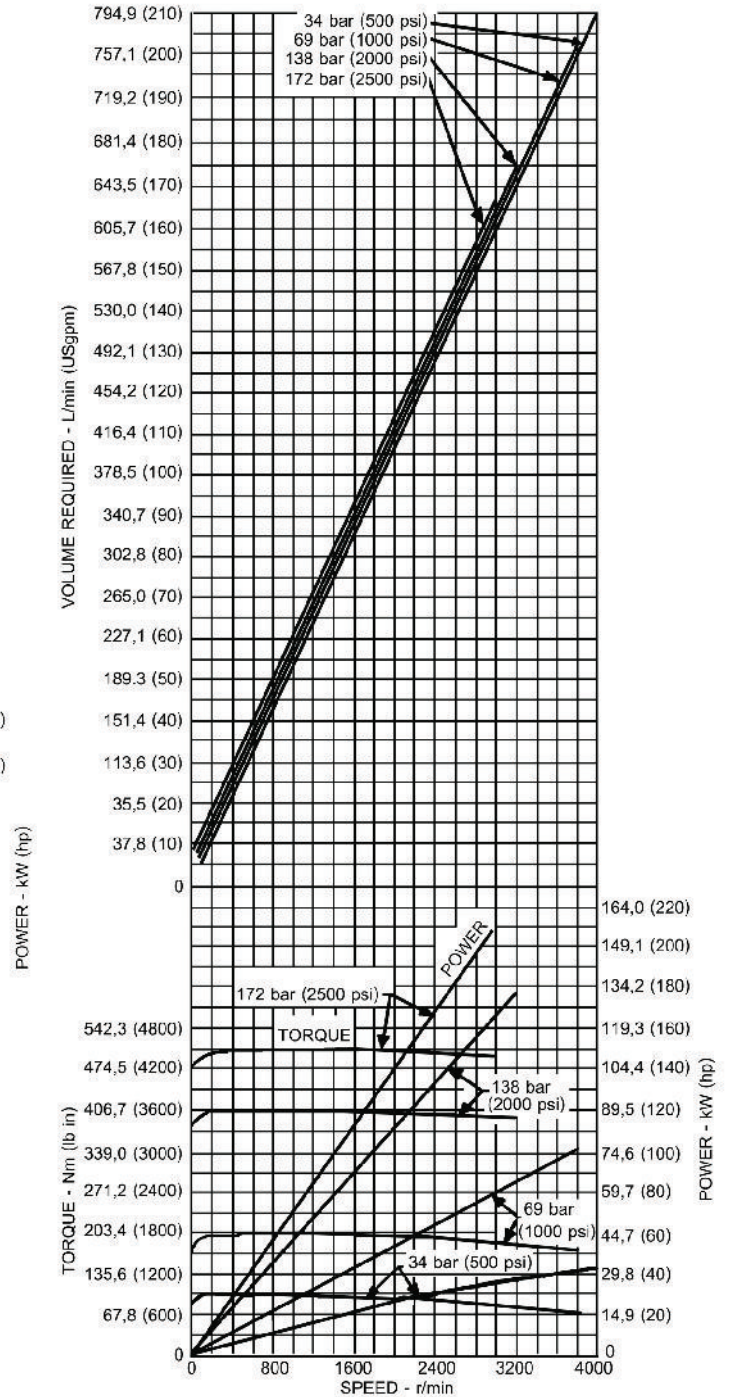
Based on SAE 10W, temperature 49°C (120 °F), viscosity 32 cSt (150 SUS)

Starting torque is 65% (minimum) of 400 r/min torque

130 LB.IN.RING SIZE



155 LB.IN.RING SIZE



Based on SAE 10W, temperature 49°C (120 °F), viscosity 32 cSt (150 SUS)

Starting torque is 65% (minimum) of 400 r/min torque

