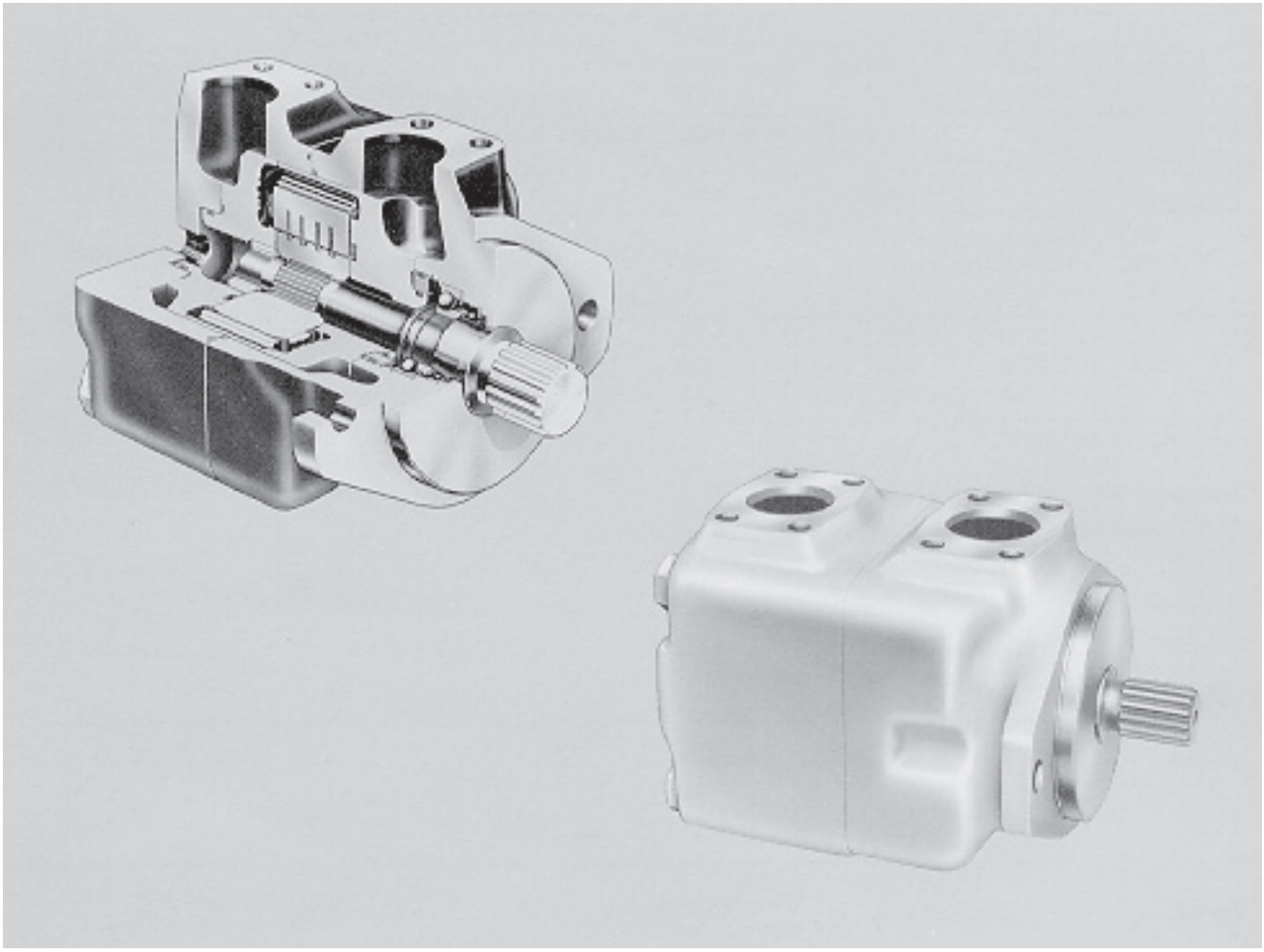
25M, 35M, 45M, 50M
High Speed - High Pressure Motors
from 43,9 to 317,1 cm^3/r
(2.68 to 19.35 in^3/r)



Reliable

Field-proven high performance motors. They have been overwhelmingly successful on elevator scraper drives, hydrostatic drives and many other auxiliary applications.

Efficient

Exclusive dual-alternate pressure plate design pro -vides overall efficiency of about 86%.

Reversibility

Through the dual plate design, the motors may be reversed simply by reversing the direction of oil flow. See note below table on page 106 regarding pressure/rotation of model series 50M.

Series Operation

Inlet and outlet ports can be pressurized simultaneously without affecting service life or operating smoothness. These motors are suited to series applications.

Replaceable Cartridge

Replaceable cartridges permit motor overhauls in just 10 minutes - in the field! A cartridge can be replaced without re - moving the unit from the vehicle, and usually without discon - necting hydraulic lines.

High Speed and Pressure

These motors offer speeds to 3000 rpm at maximum pres - sure. Speeds up to 4000 rpm are obtainable, as in transmis - sion applications where high travel speeds under light loads are required.

Operating Specifications

Model Series	Torq ue Nm/6,9 bar (lb. in./10 0 psi)	Displacement cm ³/r (in ³/r)	Flow Input @ 120 0 r/min L/min (USgpm)	Max.T orque Nm (lb. in.) @ Max. Pressure	Maximum Speeds & Pressure	Appro x. Weight kg (lb)
WF25M	4,7 (42)	43,9 (2.68)	52,7 (13.9)	115,8 (1025)		
	6,2 (55)	57,7 (3.52)	69,4 (18.3)	151,4 (1340)		18 (40)
	7,3 (65)	68,7 (4.19)	82,6 (21.8)	180,8 (1600)	4000 r/min @ 34 bar (500 psi)	
WF35M	9,0 (80)	83,6 (5.10)	100,4 (26.5)	221,5 (1960)		
	10,7 (95)	100,3 (6.12)	120,5 (31.8)	264,4 (2340)		29 (64)
	13,0 (115)	121,9 (7.44)	146,3 (38.6)	320,9 (2840)	3000 r/min @ 172 bar (2500 psi)	
WF45M	14,7 (130)	138,0 (8.42)	165,6 (43.7)	361,6 (3200)		
	17,5 (155)	163,2 (9.96)	195,9 (51.7)	429,4 (3800)		39 (85)
	20,9 (185)	193,2 (11.79)	232,3 (61.3)	502,9 (4450)		
WF50M	24,9 (220)	231,3 (14.11)	277,8 (73.3)	615,9 (5450)		
	28,8 (255)	268,2 (16.36)	322,2 (85.0)	717,6 (6350)	3200 r/min @ 34 bar (500 psi)	73 (160)
	33,9 (300)	317,2 (19.35)	380,7 (100.5)	844,1 (7470)	2400 r/min @ 172 bar (2500 psi)•	

• 114 suffix: 2500 psi, counterclockwise
2250 psi, clockwise
124 suffix: 2500 psi, bi-directional

Model Codes

WF 25 M 65 A - 11 C - 20 - ***

1 2 3 4 5 6 7 8

1 Series

WF25M, WF35M, WF45M, WF50M — Standard bearing

WF26M, WF36M, WF46M, WF51M — Heavy duty bearing

2 Vane motor

3 Ring size - Nominal torque rating (lb. in./100 psi)

WF25M – 42, 55 & 65
WF35M – 80, 95 & 115
WF45M – 130, 155 & 185
WF50M – 220, 255 & 300

4 Mounting flange & port connections

A – SAE type 2-bolt mounting flange and SAE 4-bolt flange connections

5 Shaft

1 – Straight keyed
11 – Splined

6 Cover position
(Viewing cover end)

A – Cover port opposite body port
B – Cover port 90 CCW from body port
C – Port connections in line
D – Cover port 90 CW from body port

7 Design

Subject to change. Installation dimensions remain the same for designs –20 through –29.

8 Special features suffix

114, 124 — 50M only

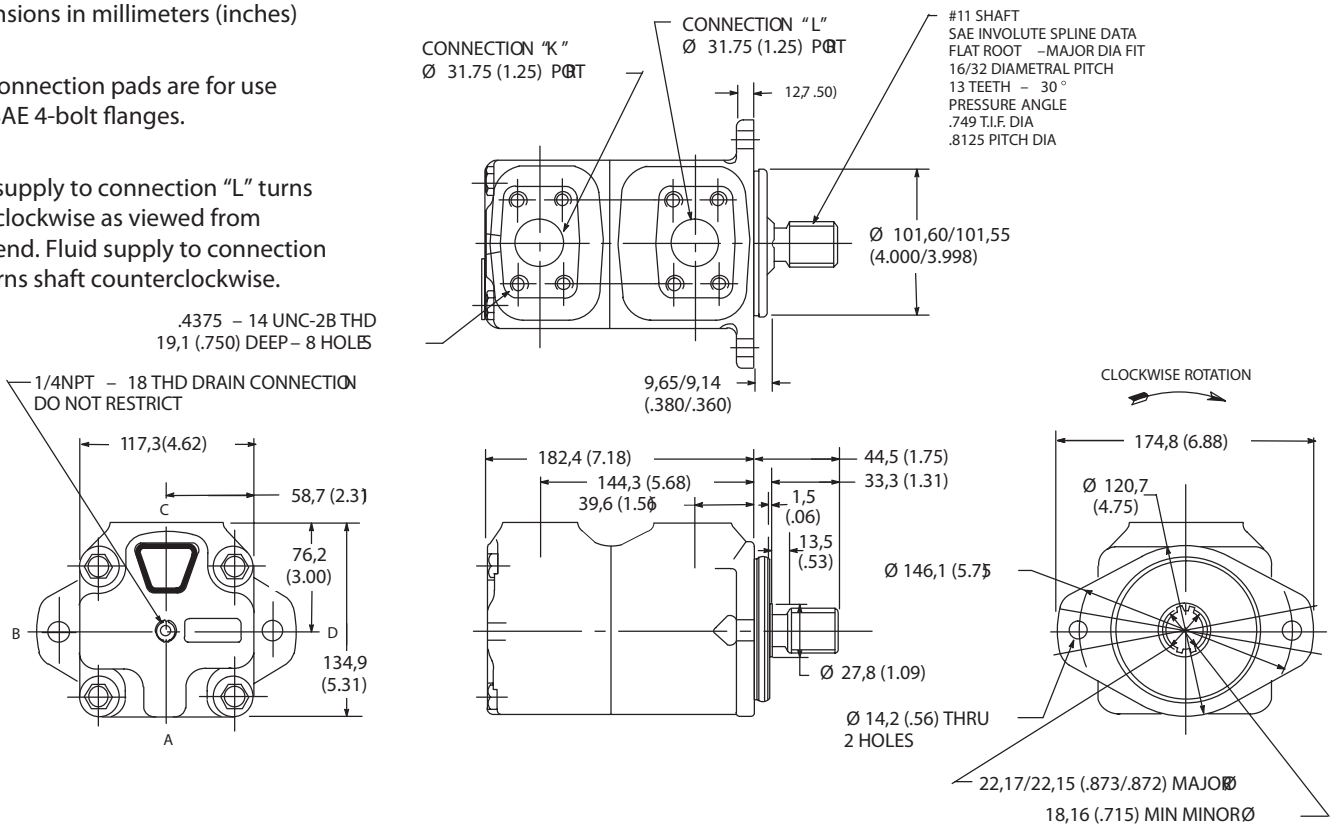
Installation Dimensions

WF25M Motors

Dimensions in millimeters (inches)

Port connection pads are for use with SAE 4-bolt flanges.

Fluid supply to connection "L" turns shaft clockwise as viewed from shaft end. Fluid supply to connection "K" turns shaft counterclockwise.

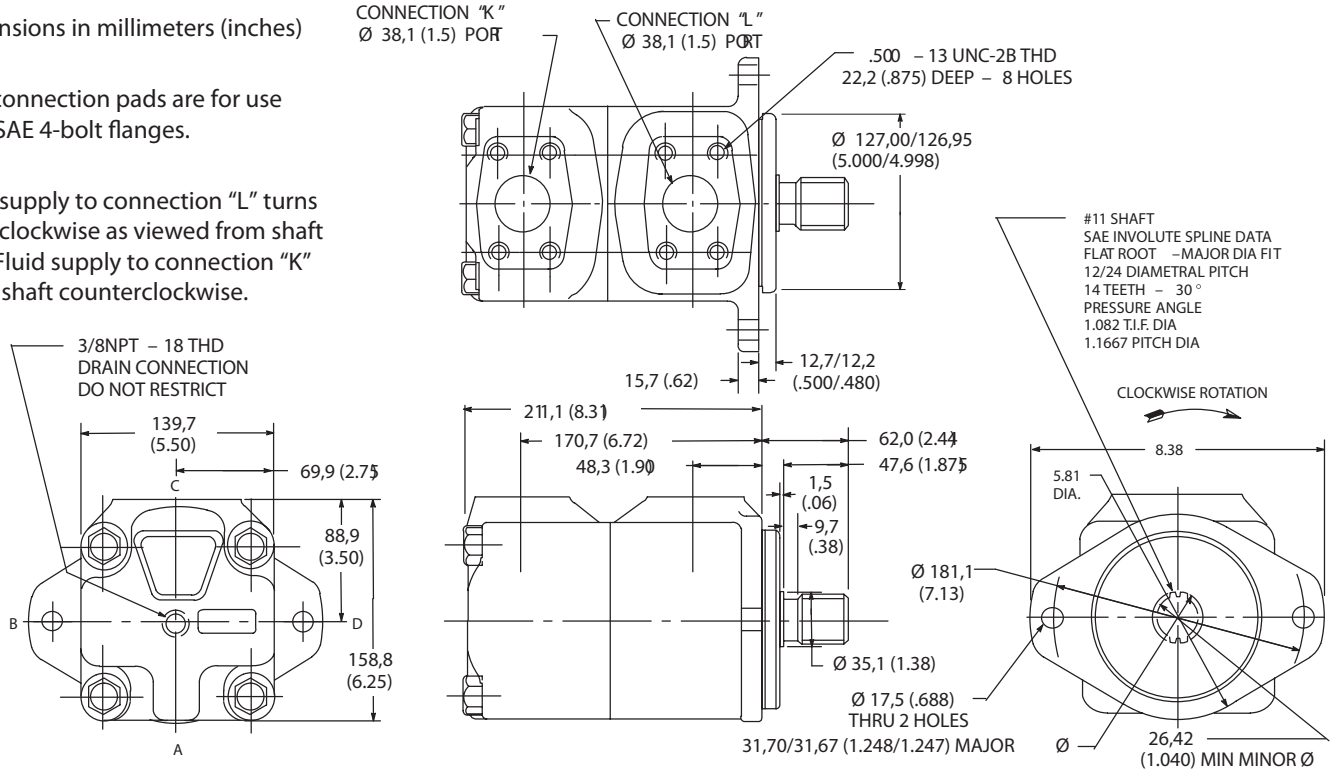


WF35M Motors

Dimensions in millimeters (inches)

Port connection pads are for use with SAE 4-bolt flanges.

Fluid supply to connection "L" turns shaft clockwise as viewed from shaft end. Fluid supply to connection "K" turns shaft counterclockwise.

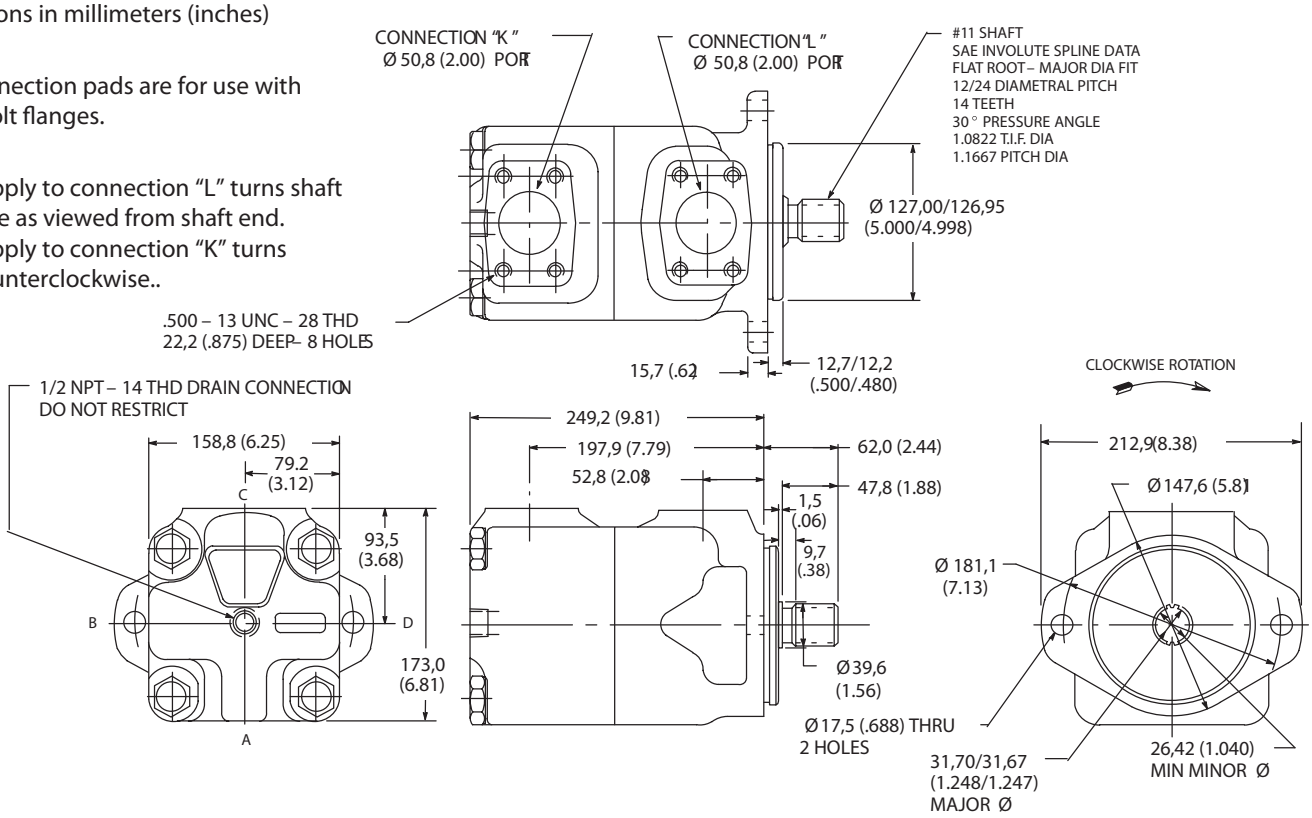


WF45M Motors

Dimensions in millimeters (inches)

Port connection pads are for use with SAE 4-bolt flanges.

Fluid supply to connection "L" turns shaft clockwise as viewed from shaft end. Fluid supply to connection "K" turns shaft counterclockwise..

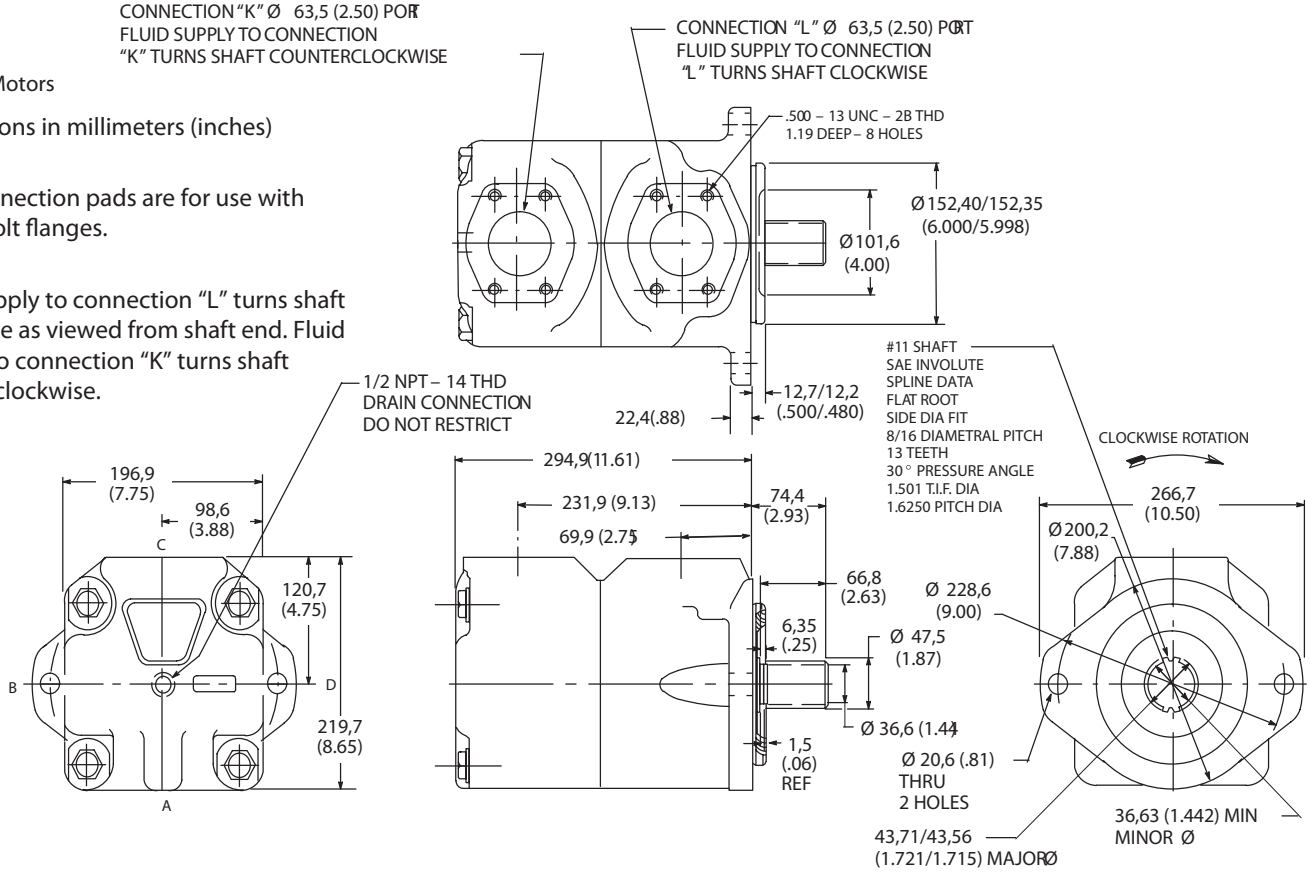


WF50M Motors

Dimensions in millimeters (inches)

Port connection pads are for use with SAE 4-bolt flanges.

Fluid supply to connection "L" turns shaft clockwise as viewed from shaft end. Fluid supply to connection "K" turns shaft counterclockwise.

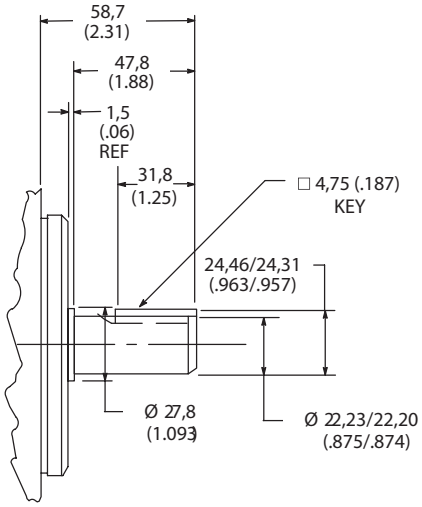


Optional Shafts

WF25M series

No. 1 straight keyed shaft

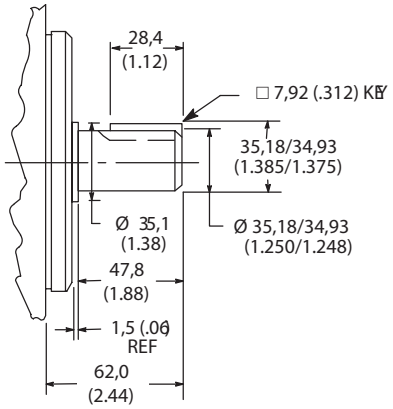
Dimensions in millimeters (inches)



WF35M & WF45M series

No. 1 straight keyed shaf t

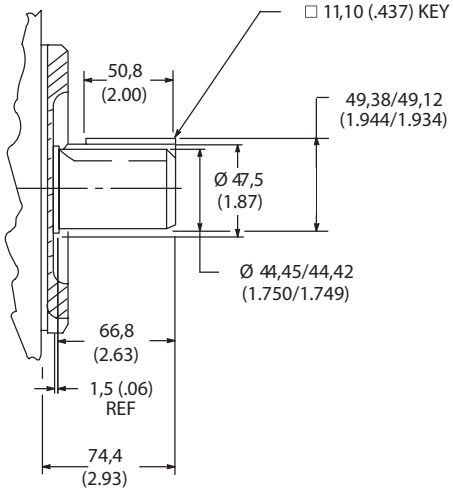
Dimensions in millimeters (inches)



WF50M series

No. 1 straight keyed shaft

Dimensions in millimeters (inches)

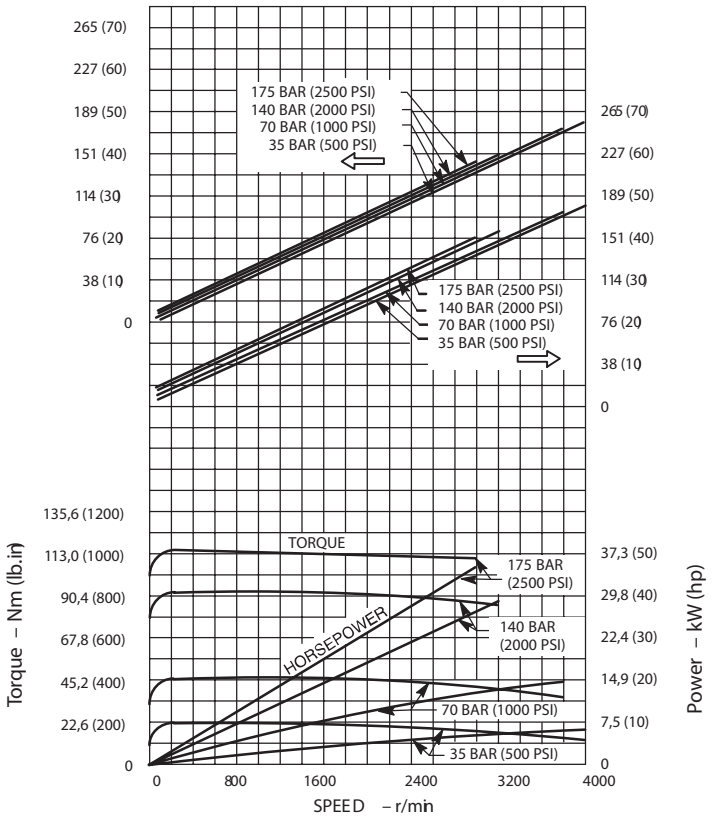


Typical Performance

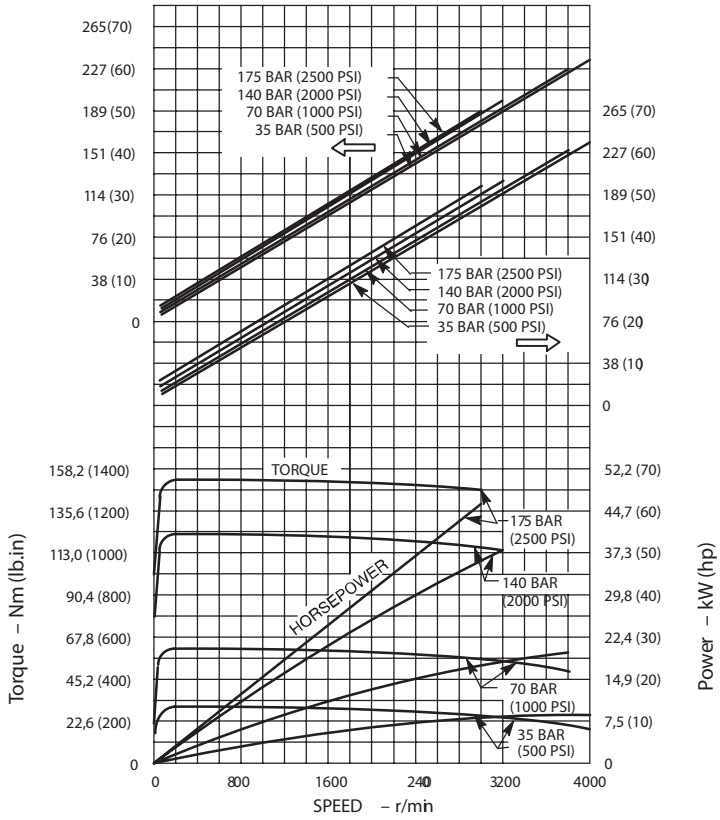
WF25M Motors

Performance Constants:
Oil SAE 10W, viscosity 32 cSt (150 SUS) @ 38 ° C (100 ° F)

42 LB. IN. MODEL



55 LB. IN. MODEL



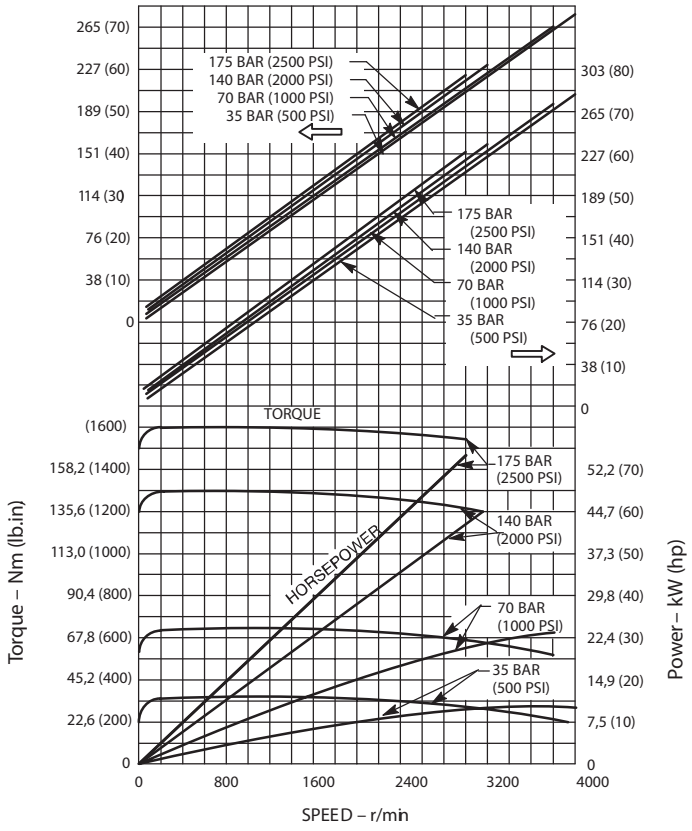
Typical Performance

WF25M Motors

Performance Constants:
Oil SAE 10W, viscosity 32 cSt (150 SUS) @ 38

° C (100 ° F)

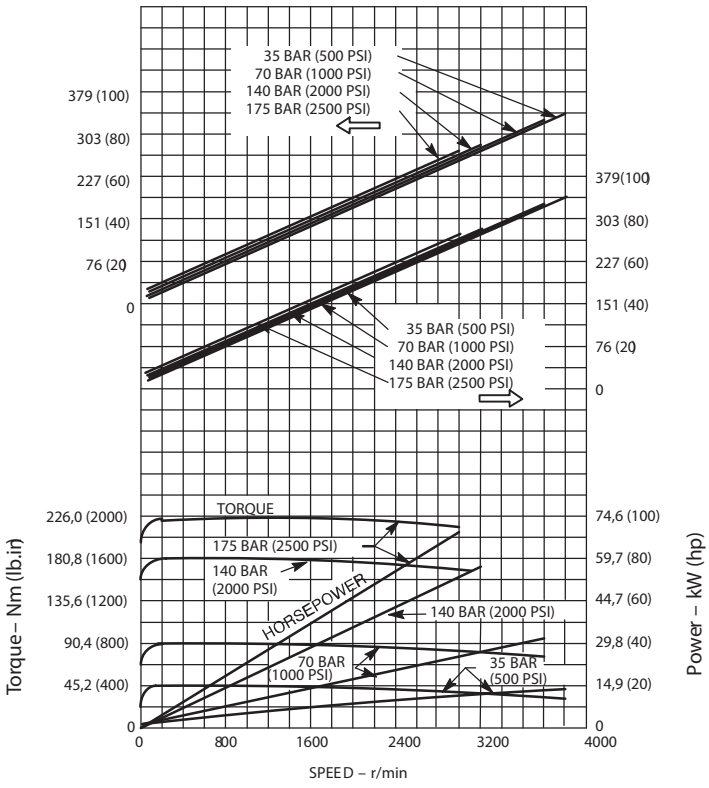
65 LB. IN. MODEL



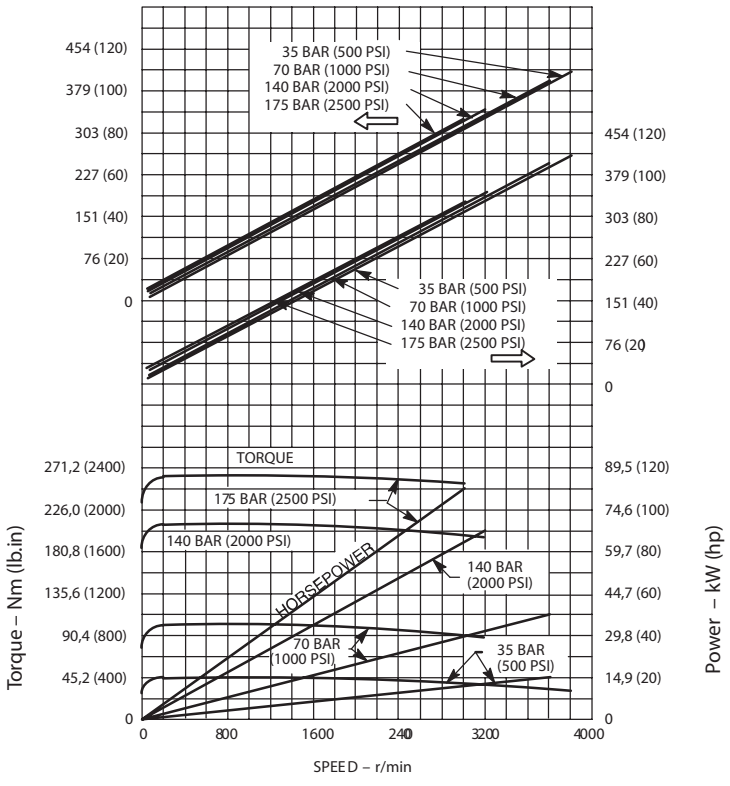
WF35M Motors

Performance Constants:
Oil SAE 10W, viscosity 32 cSt (150 SUS) @ 38
° C (100 ° F)

80 LB. IN. MODEL



95 LB. IN. MODEL

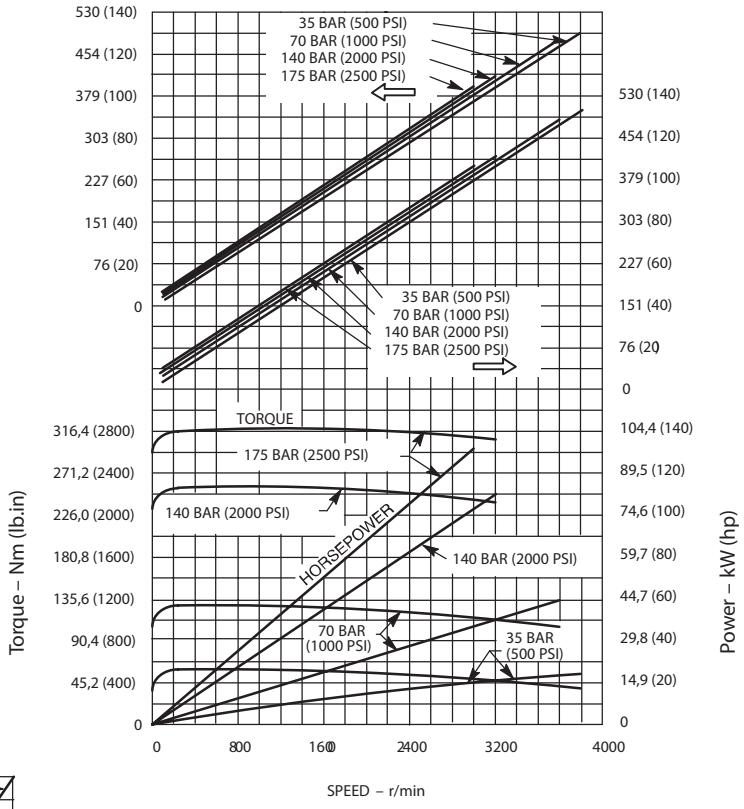


Typical Performance

WF35M Motors

Performance Constants:
Oil SAE 10W, viscosity 32 cSt (150 SUS) @ 38
° C (100 ° F)

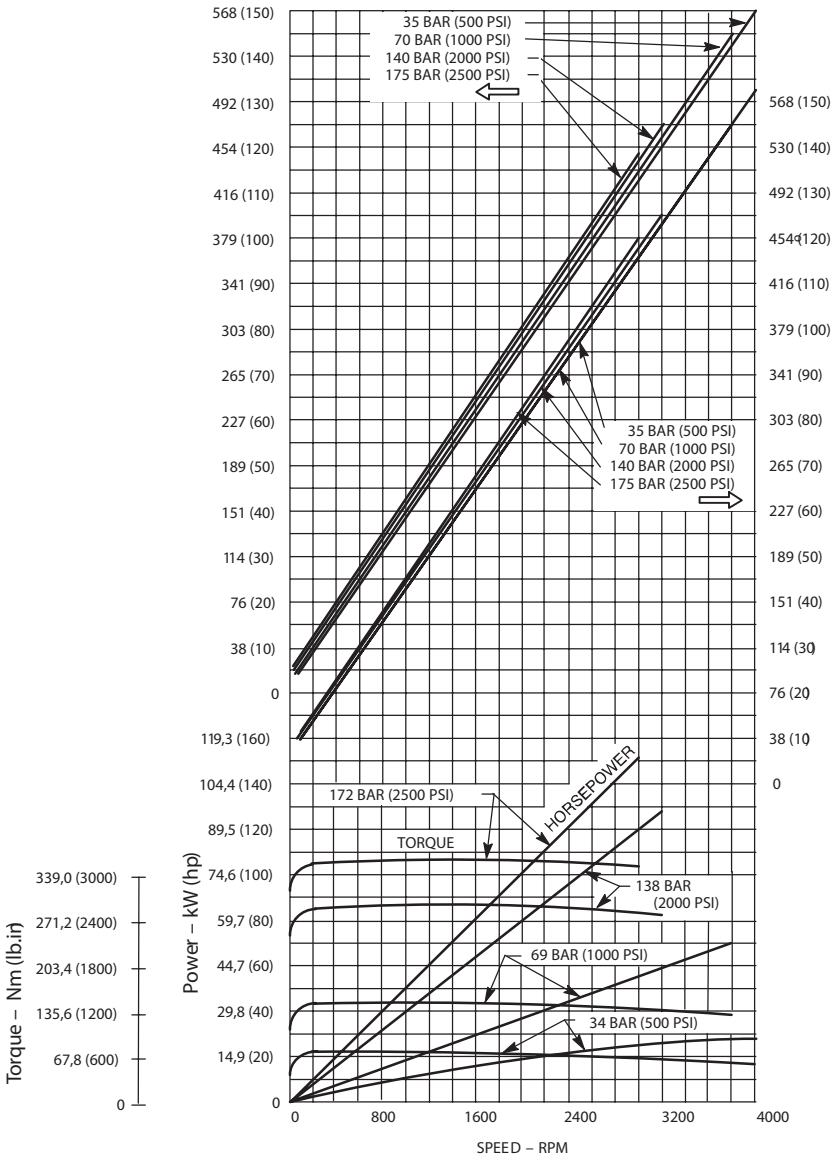
115 LB. IN. MODEL



WF45M Motors

Performance Constants:
Oil SAE 10W, viscosity 32 cSt (150 SUS) @ 38
° C (100 ° F)

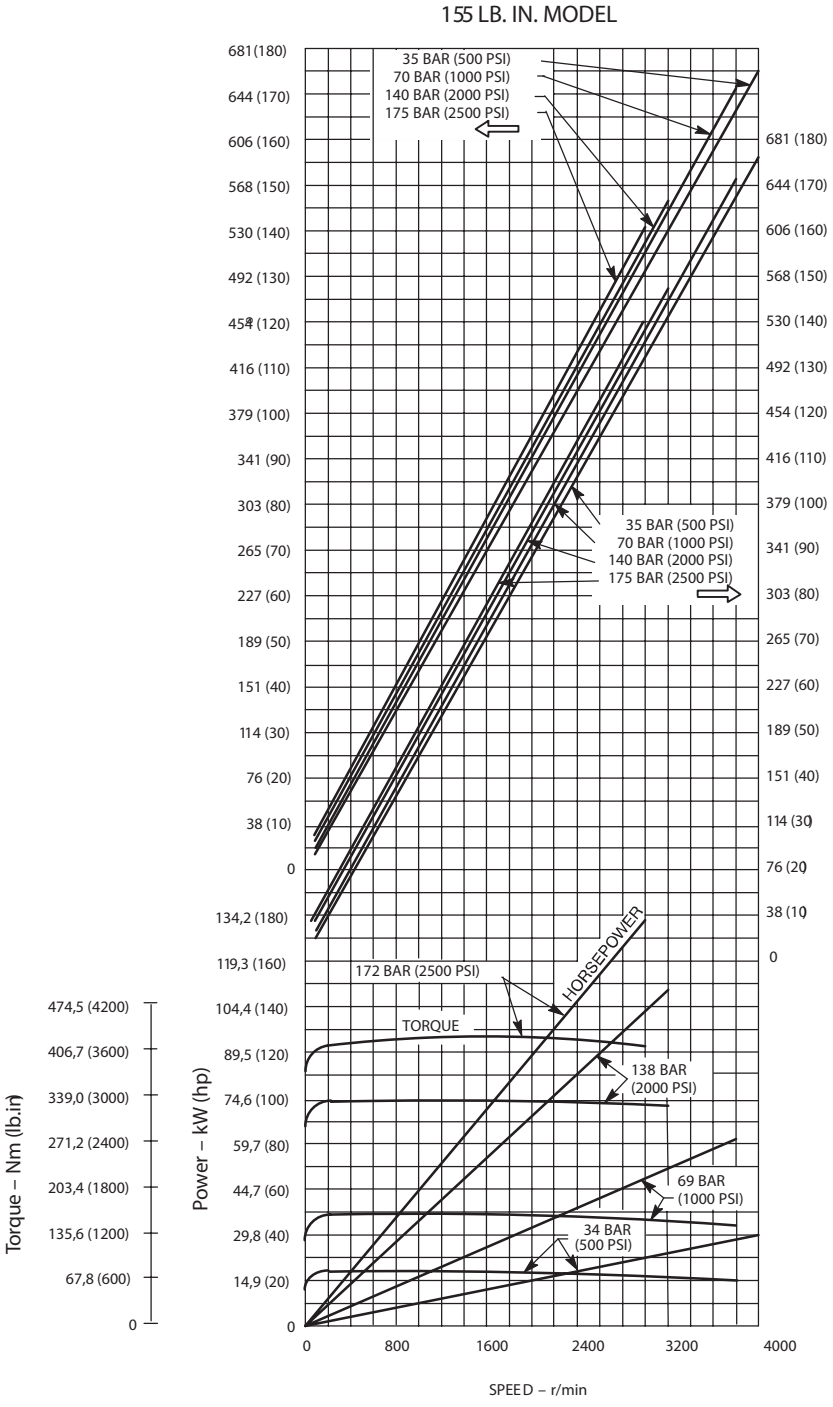
130LB. IN. MODEL



Typical Performance

WF45M Motors

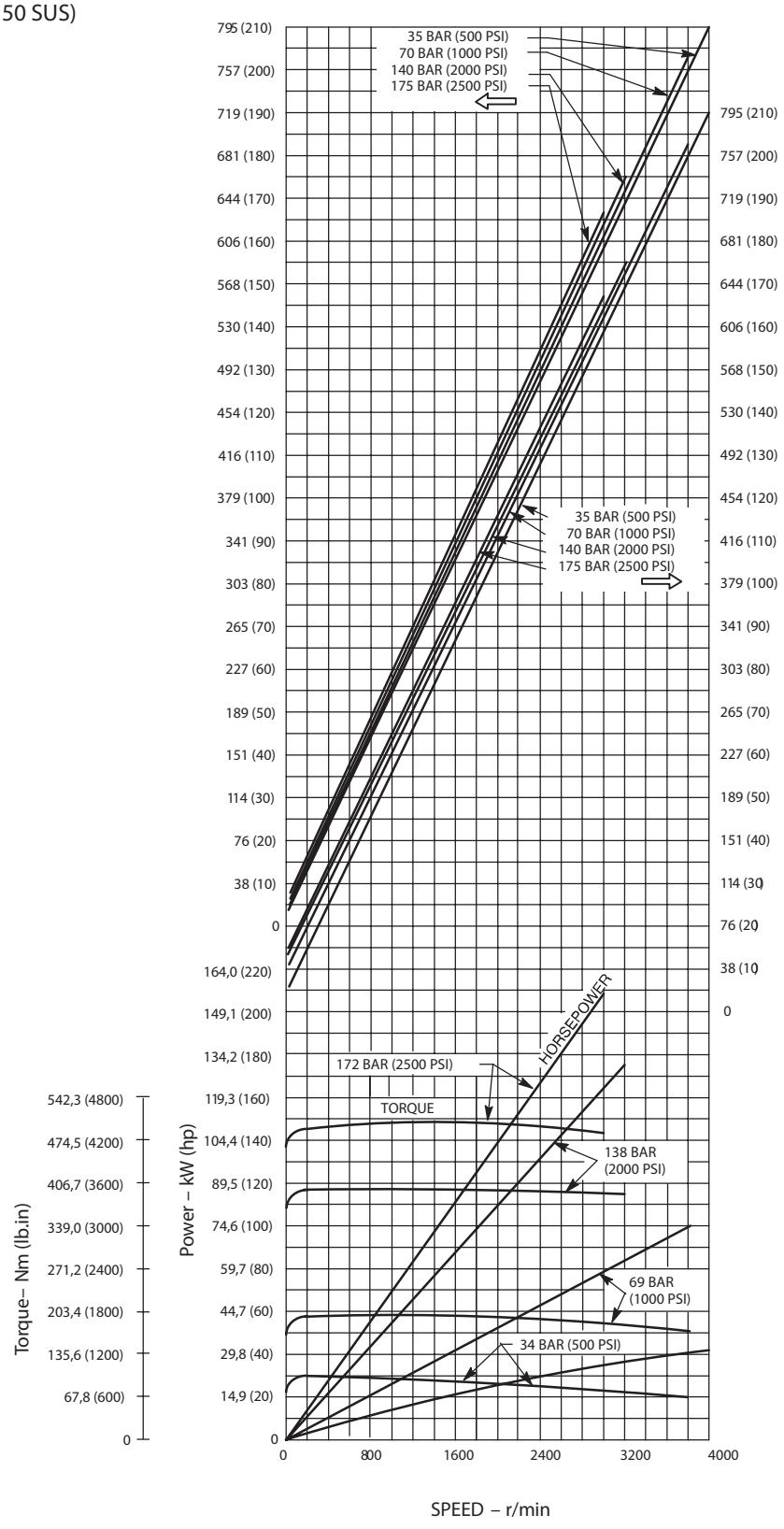
Performance Constants:
Oil SAE 10W, viscosity 32 cSt (150 SUS) @ 38 ° C (100 ° F)



WF45M Motors

Performance Constants:
Oil SAE 10W, viscosity 32 cSt (150 SUS)
@ 38 ° C (100 ° F)

185LB. IN. MODEL

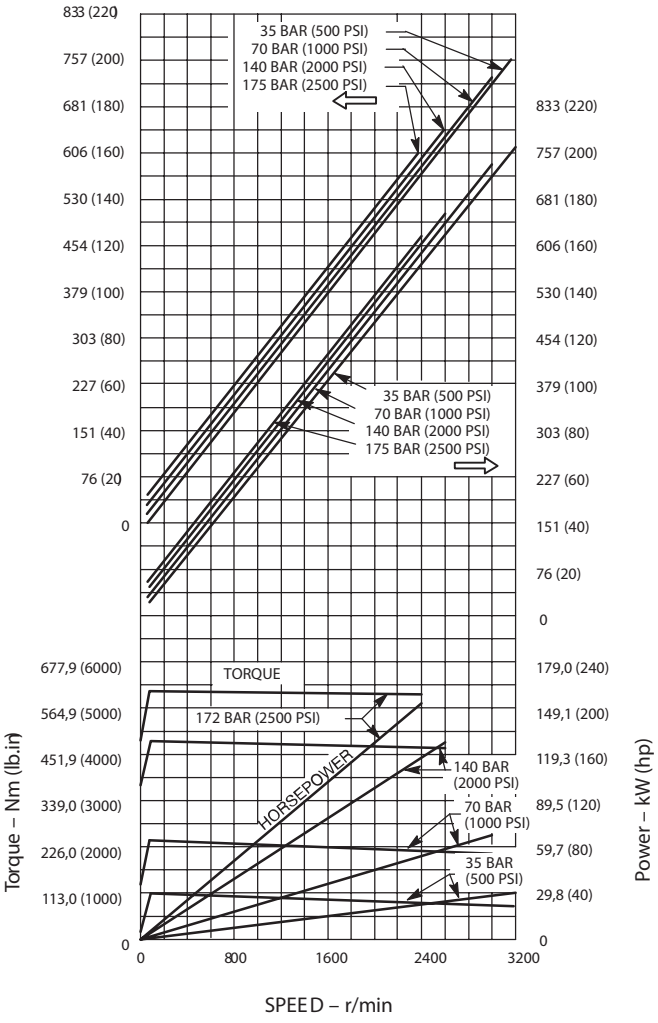


Typical Performance

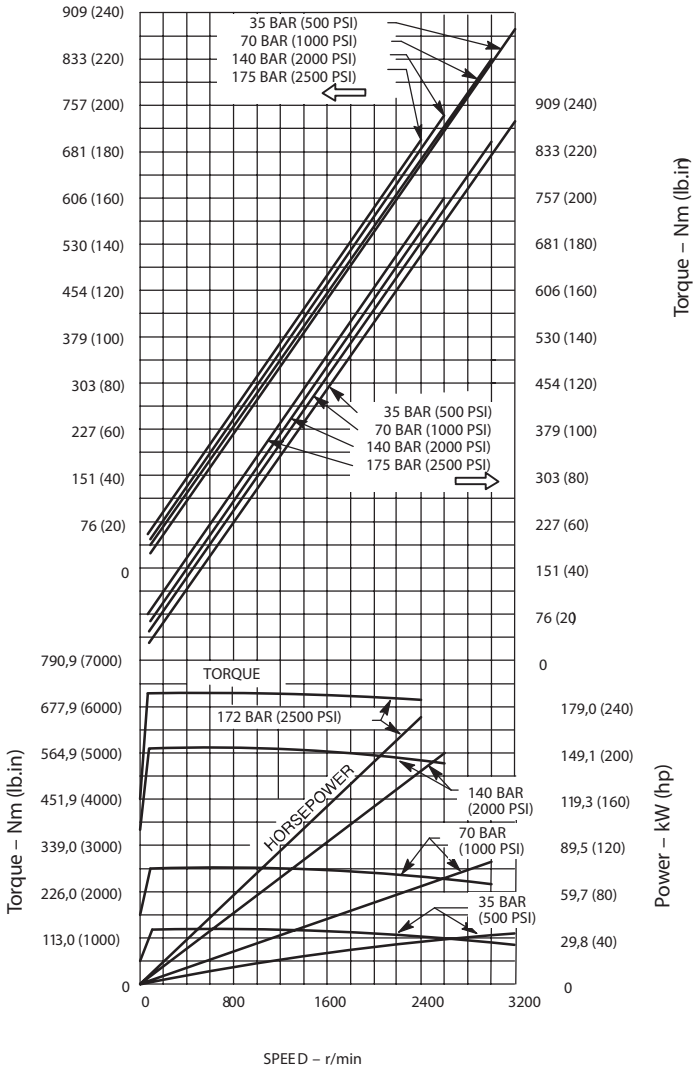
WF50M Motors

Performance Constants:
Oil SAE 10W, viscosity 32 cSt (150 SUS) @ 38 ° C (100 ° F)

220LB. IN. MODEL



255LB. IN. MODEL



WF50M Motors

Performance Constants:
Oil SAE 10W, viscosity 32 cSt (150 SUS) @ 38
° C (100 ° F)

300LB. IN. MODEL