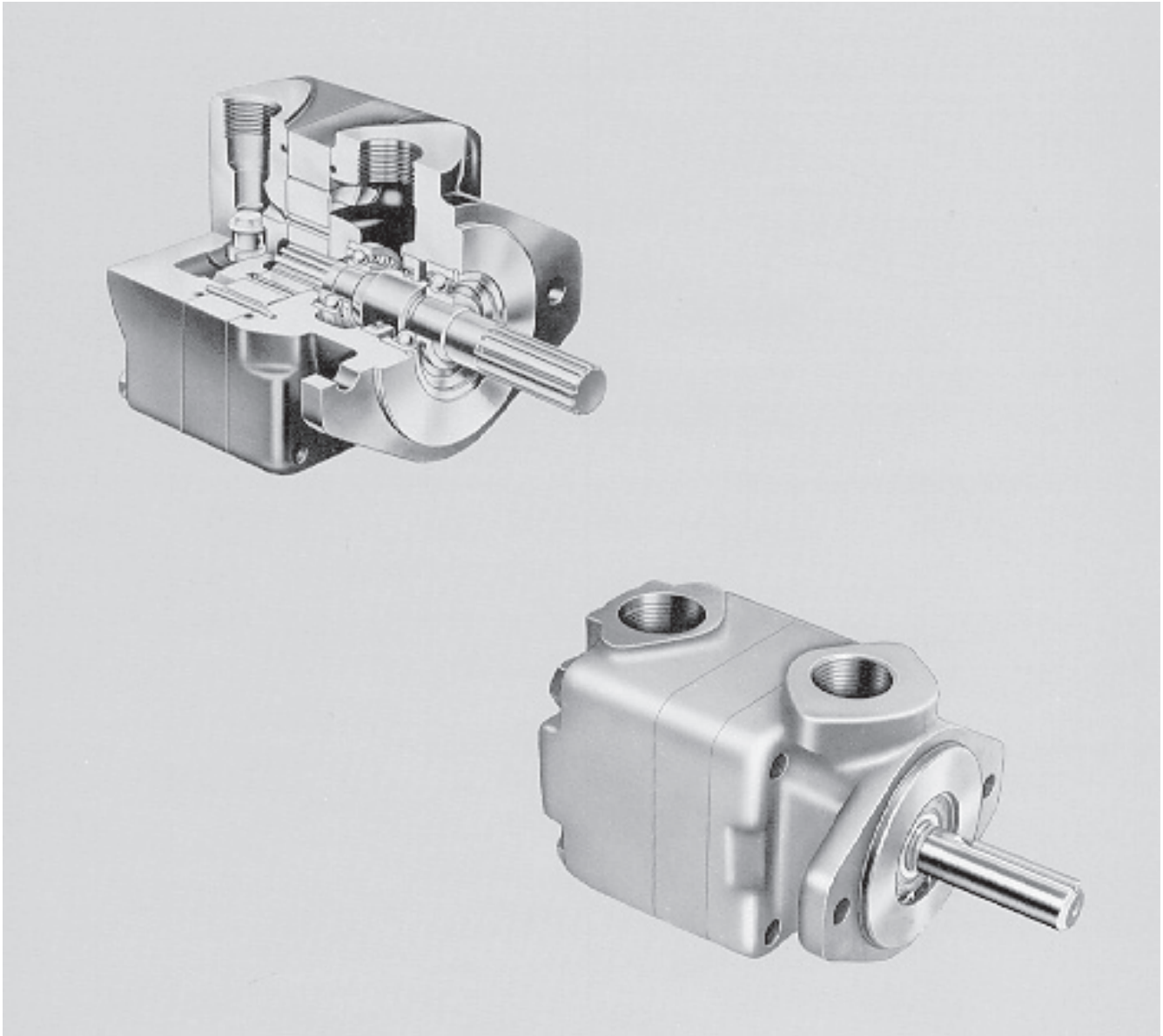


Vane Motors – 21,6 to 37,5 cm³/r (1.32 to 2.29 in³/r)



Characteristics

An economical, efficient and compact means of applying variable speed, rotary hydraulic power, these motors have variable horsepower (constant torque) characteristics. They can be stalled under load without damage when protected by a relief valve.

Hydraulic Balance

Two internal inlet chambers are diametrically opposed as are two outlet chambers. This construction eliminates bearing loads resulting from pressure, a major cause of wear in designs without this feature.

Efficiency

Optimum running clearances and hydraulic balance assure sustained high efficiency over the life of the motor.

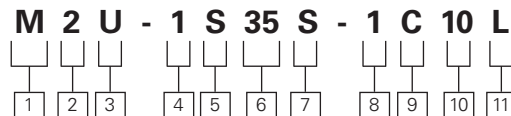
Smooth Operation

Inertia of rotating parts is low ... parts are symmetrical, providing dynamic balance and freedom from vibration.

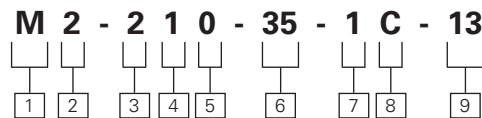
Operating Specifications

Model series	Torque Nm/6,9 bar (lb. in./100 psi)	Displ. cm ³ /r (in ³ /r)	Maximum torque Nm (lb. in.) @ max. pressure	Maximum speeds & pressures	Approx. weight lbs.
M2U	2,0 (18)	21,6 (1.32)	38,4 (340)	2800 r/min @ 138 bar (2000 psi)	7,7 (17)
	2,8 (25)	25,4 (1.55)	46,3 (410)	2500 r/min @ 138 bar (2000 psi)	
	4,0 (35)	37,5 (2.29)	67,8 (600)	2000 r/min @ 138 bar (2000 psi)	
M2-210	2,8 (25)	24,7 (1.51)	46,3 (410)	2200 r/min @ 138 bar (2000 psi)	9,5 (21)
	4,0 (35)	35,4 (2.16)	56,5 (500)	1800 r/min @ 121 bar (1750 psi)	

Model Codes



1 Vane motor	6 Ring size – torque (lb. in./100 psi) 18, 25 and 35	9 Outlet position (Viewing cover end) A – Outlet port opposite inlet C – Port connections inline
2 Series		
3 Uni-directional rotation	7 Outlet port S – 1-5/16 – 12 st. thd.	10 Design Subject to change. Installation dimensions remain the same for designs –10 through –19.
4 Mounting 1 – 2-bolt flange	8 Shaft type 1 – Straight keyed 3 – Threaded 11 – Splined	11 Rotation L – Left hand (counterclockwise) Omit for right hand (clockwise)
5 Inlet port S – 1-5/16 – 12 st. thd.		



1 Vane motor	5 Mounting 0 – 2 bolt flange	8 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
2 Series (bi-directional rotation)	6 Ring size – torque lb. in./100 psi 25 and 35	9 Design Subject to change. Installation dimensions remain the same for designs –10 through –19.
3 Series frame size	7 Shaft type 1 – Straight keyed 3 – Threaded 6 – Straight keyed (stub) 11 – Splined	
4 Porting 1-3/4 NPT both ports		

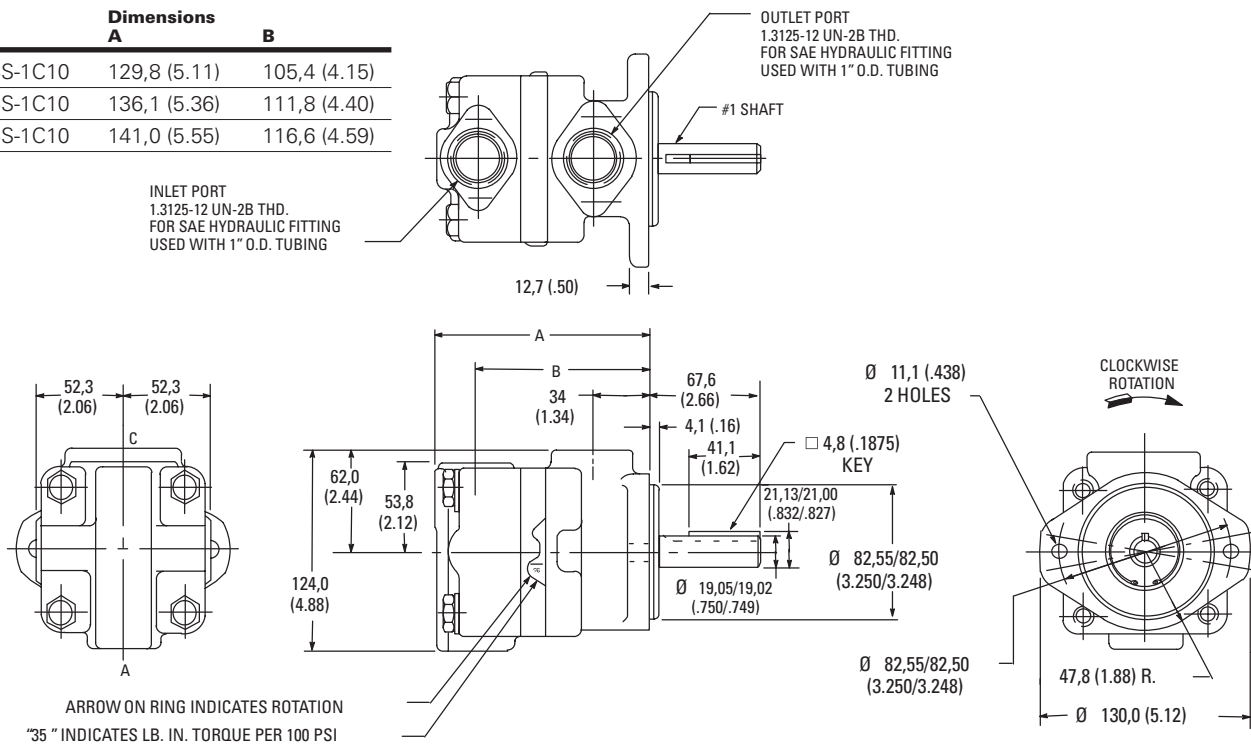
Installation Dimensions

M2U series

Dimensions in millimeters (inches)

Shaft options shown on page 101.

Model	Dimensions	
	A	B
M2U-1S18S-1C10	129,8 (5.11)	105,4 (4.15)
M2U-1S25S-1C10	136,1 (5.36)	111,8 (4.40)
M2U-1S35S-1C10	141,0 (5.55)	116,6 (4.59)



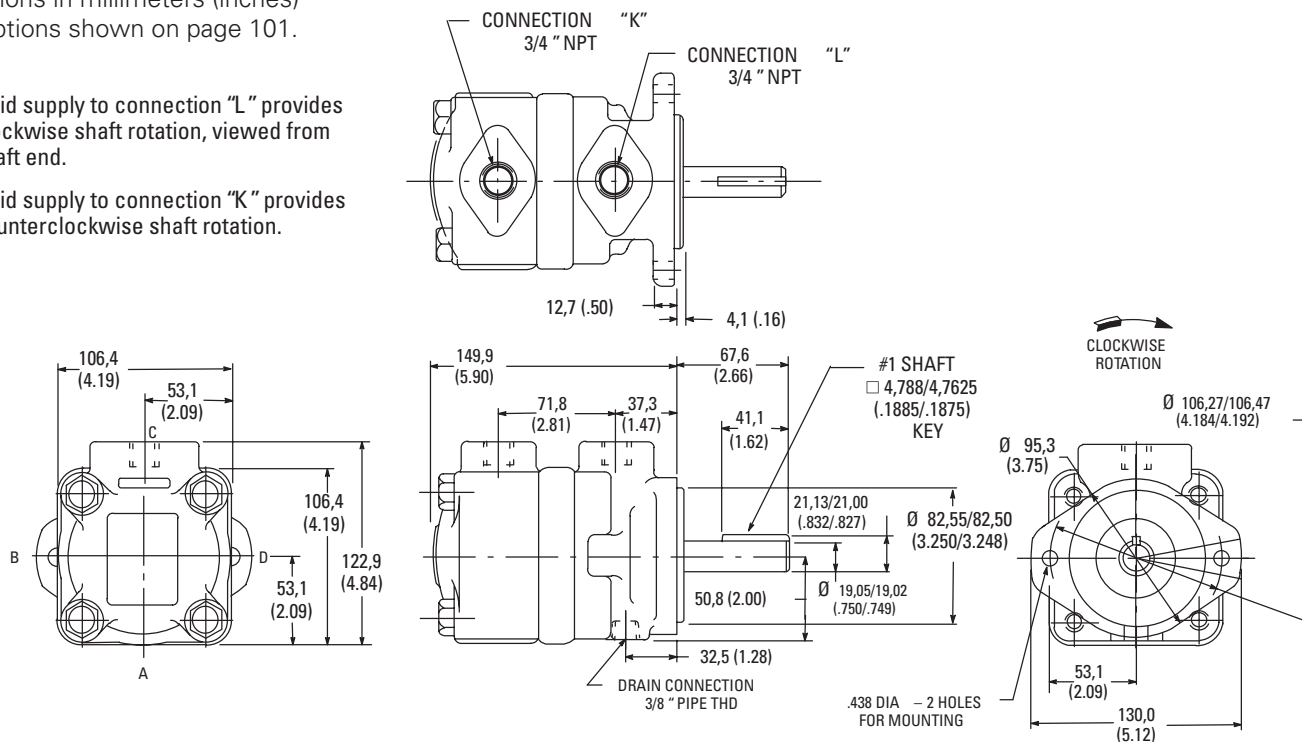
M2-200 series

Dimensions in millimeters (inches)

Shaft options shown on page 101.

Fluid supply to connection "L" provides clockwise shaft rotation, viewed from shaft end.

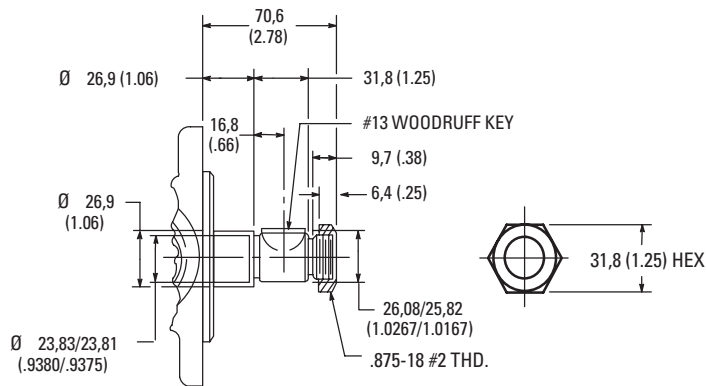
Fluid supply to connection "K" provides counterclockwise shaft rotation.



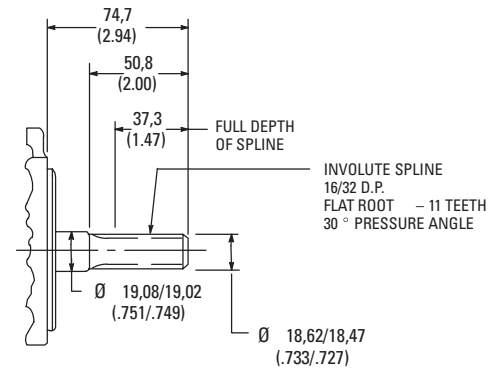
Optional Shafts

M2U & M2-200 series

Dimensions in millimeters (inches)



No. 3 threaded shaft



No. 11 splined shaft

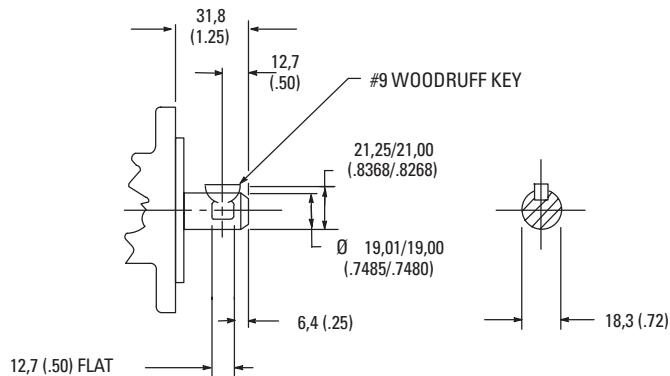
NOTE:

Nut torque 169,5 Nm (125 lb. ft.)

M2-200 series

Dimensions in millimeters (inches)

NOTE: No. 1 keyed shaft is shown on page 100.



No. 6 straight stub shaft

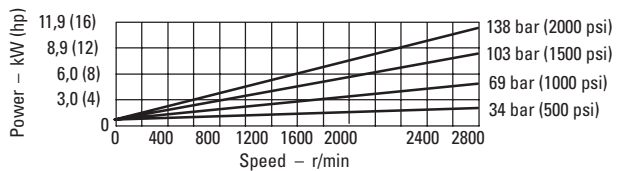
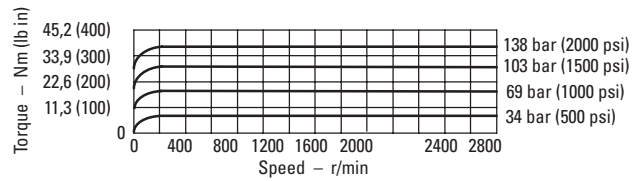
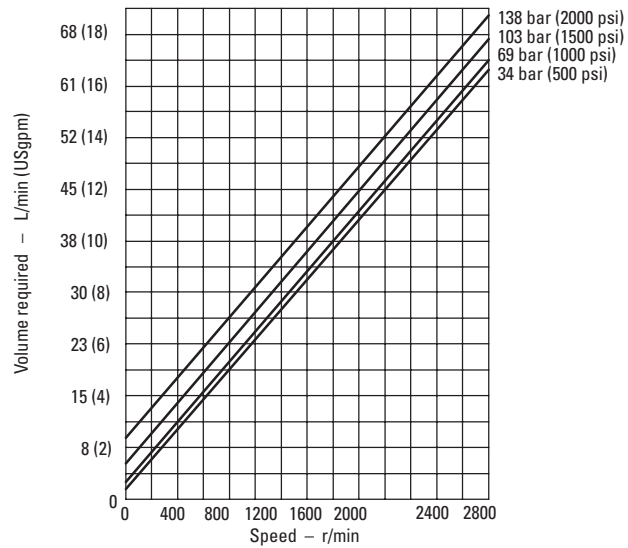
Typical Performance

M2U Series

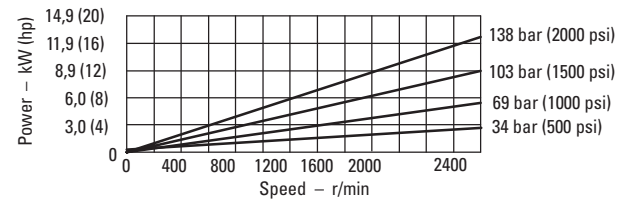
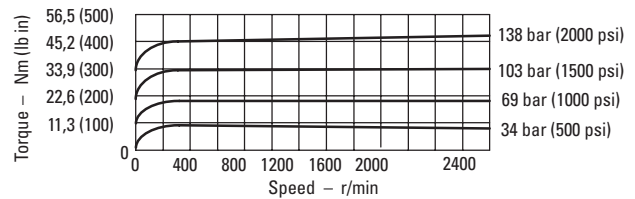
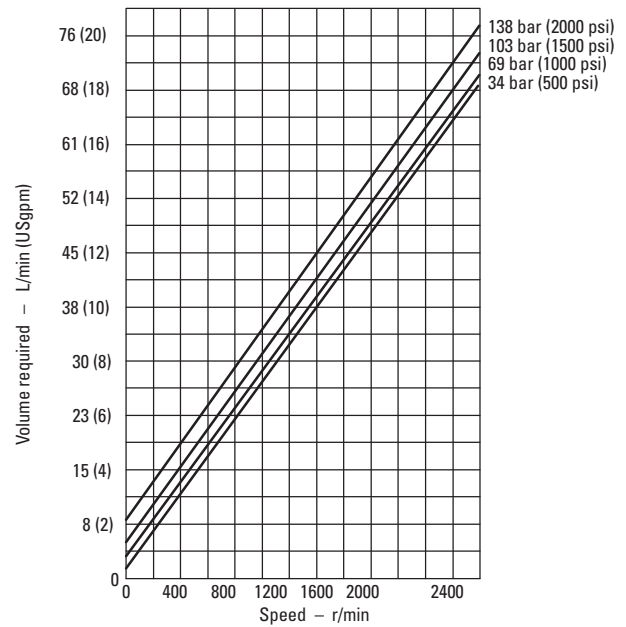
Performance Constants:

Oil temp. 49° C (120° F), viscosity
32 cSt (150 SUS) @ 38° C (100° F)

18 LB. IN. RING



25 LB. IN. RING

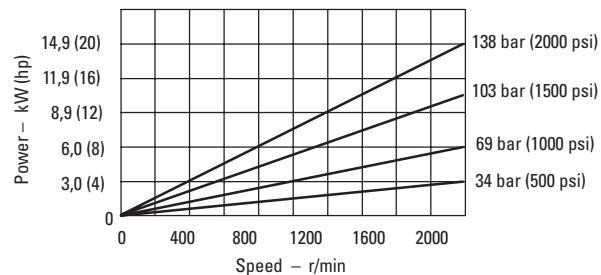
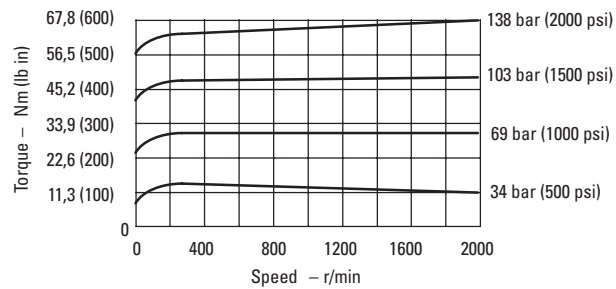
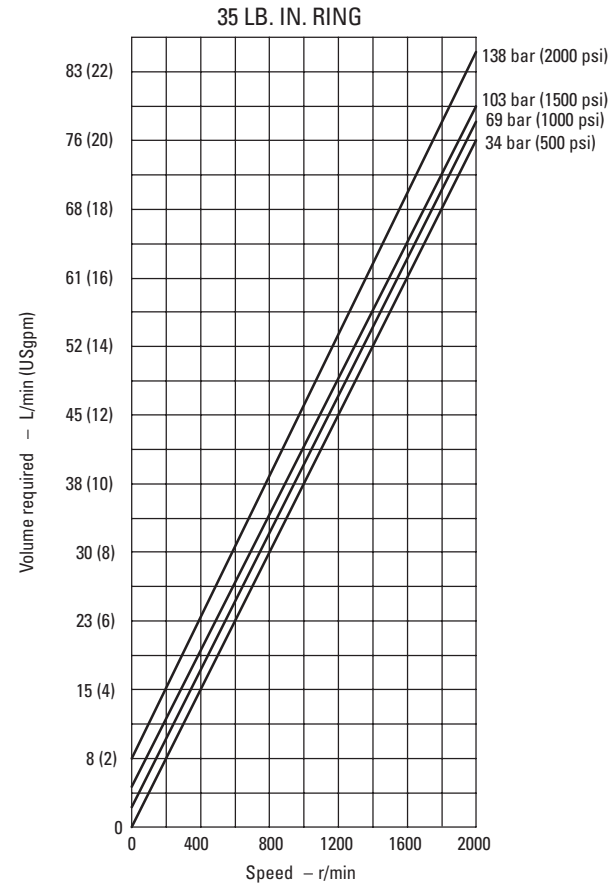


Typical Performance

M2U Series

Performance Constants:

Oil temp. 49° C (120° F), viscosity
32 cSt (150 SUS) @ 38° C (100° F)

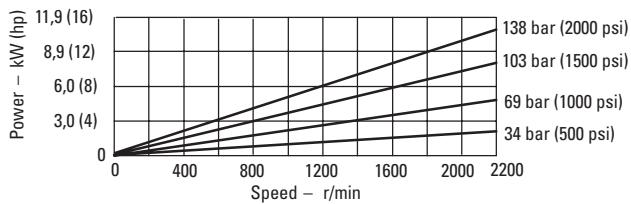
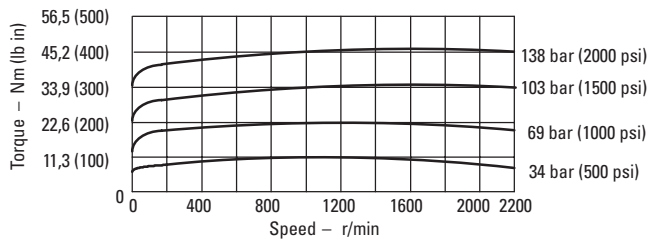
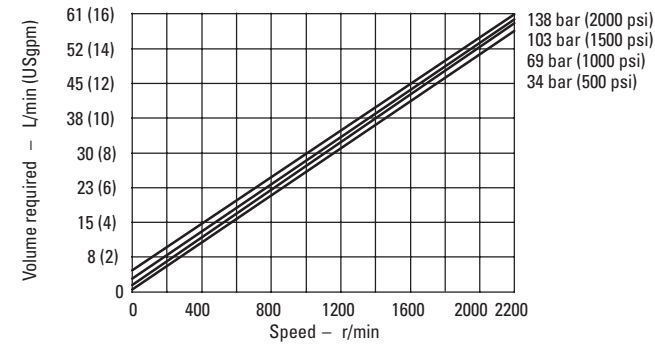


M2-200 Series

Performance Constants:

Oil temp. 49° C (120° F), viscosity
32 cSt (150 SUS) @ 38° C (100° F)

25 LB. IN. RING



35 LB. IN. RING

