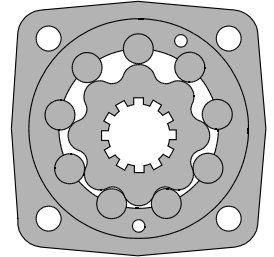




MAV motor have constant working displacement and obtain hightorque at low speed. This type motors puts hydraulic power into work which is expressed in the direct relation between flow rate and speed, pressure, torque.



Specifications

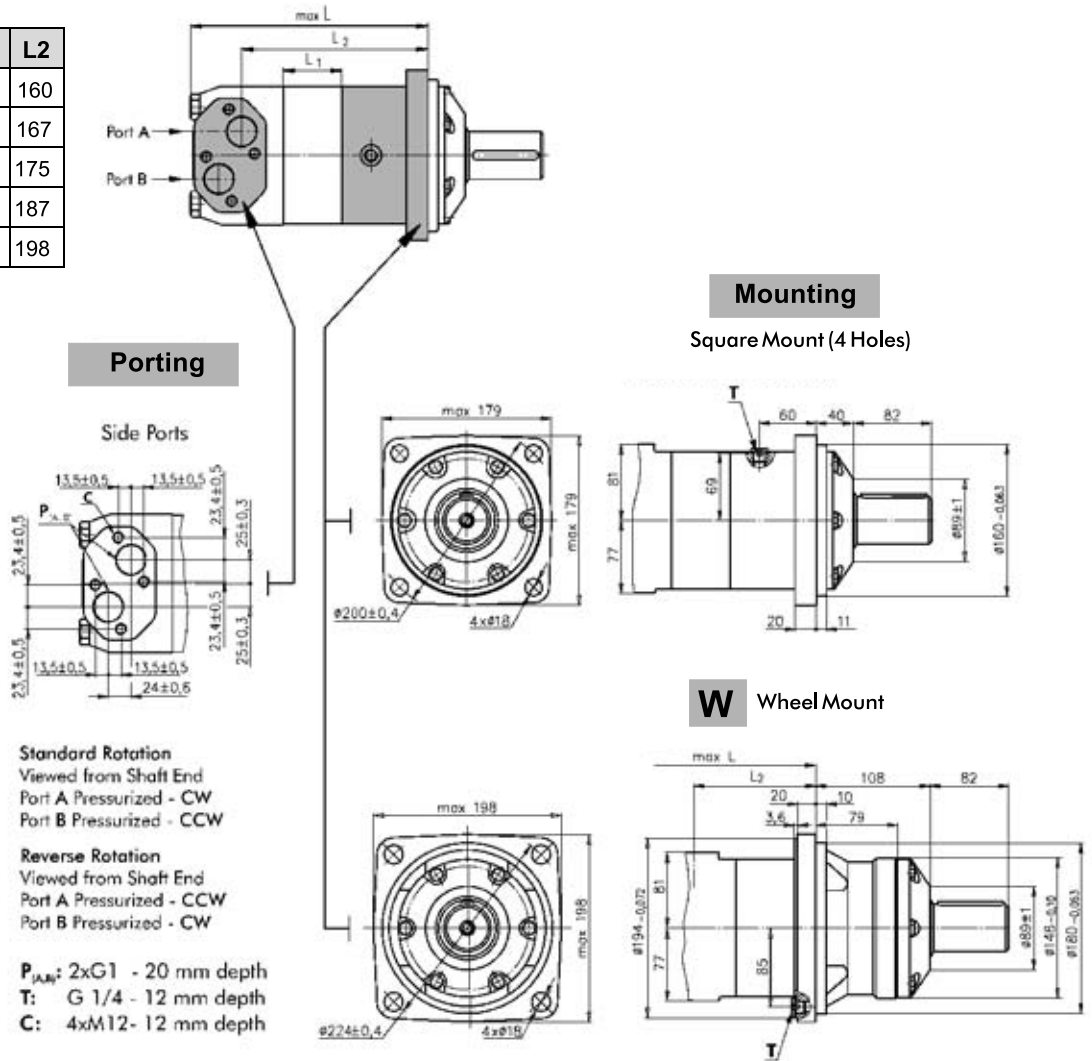
Type		MAV 315	MAV 400	MAV 500	MAV 630	MAV 800
Displacement (cc/rev)		314.9	401	499.5	631.8	801.9
Max. speed (rpm)	Cont	480	475	380	300	238
	Int(1)	640	576	460	365	287
Max. torque (da Nm)	Cont	85.1	108.4	135.0	153.7	173.4
	Int(1)	96.1	122.4	152.5	164.7	183.6
	Peak(2)	112.2	142.8	177.9	192.9	214.2
Max. output (Kw)	Cont	15.0	15.0	15.0	13.5	12.0
	Int(1)	16.8	16.8	16.8	14.4	12.6
Max. pressure drop (bar)	Cont	200	200	200	180	160
	Int(1)	240	240	240	205	18
	Peak(2)	280	280	280	240	210
Max oil flow(L/min)	Cont	150	190	190	190	190
	Int(1)	200	230	230	230	230
Max Intet Pressure (bar)	Cont	210				
	Int(1)	250				
	Peak(2)	300				
Weight (kg)		31.9	32.8	33.6	35.0	37.0

(1) Intermittent operation rating applies to 6 sec. of every minute (2) Peak load rating applies to 0.6 sec of every minute

Type		MAV 315	MAV 400	MAV 500	MAV 630	MAV 800
Displacement (in.3/r)		19.2	24.5	30.5	38.6	49.0
Max. speed (rpm)	Cont	480	475	380	300	238
	Int(1)	640	576	460	365	287
Max. torque (lb-in)_	Cont	7533	9593	11949	13602	15346
	Int(1)	8508	10834	13495	14580	16249
	Peak(2)	9926	12640	15744	17070	18957
Max. output (hp)	Cont	20.0	20.0	20.0	18.0	16.0
	Int(1)	22.4	22.4	22.4	19.1	16.8
Max. pressure (psi)	Cont	2900	2900	2900	2610	2320
	Int(1)	3480	3480	3480	3000	2610
	Peak(2)	4060	4060	4060	3480	3045
Max oil flow(GPM)	Cont	39	49	49	49	49
	Int(1)	52	60	60	60	60
Max Intet Pressure (psi)	Cont	3045				
	Int(1)	3480				
	Peak(2)	4350				
Weight (lbs)		70.3	72.3	74.1	77.2	81.6

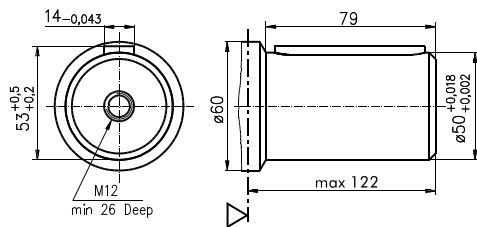
Dimensions and Mounting Data

Type	L	L1	L2
MAV 315	203	22	160
MAV 400	210	29	167
MAV 500	218	37	175
MAV 630	230	49	187
MAV 800	241	60	198

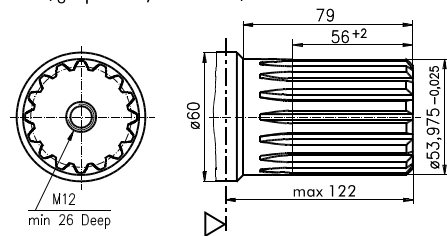


Shaft Extensions for MAV Motor

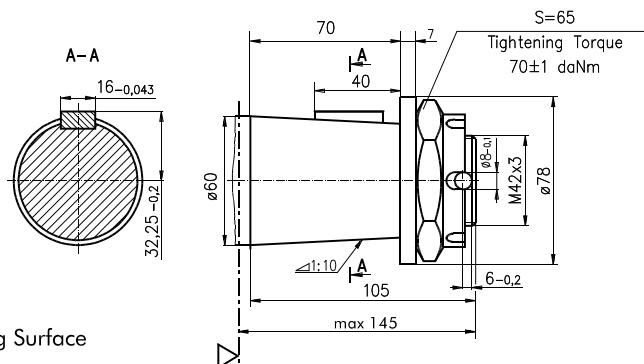
C - $\phi 50$ straight, Parallel key A14x9x70



SH - $\phi 2 \frac{1}{8}$ "splined, 16 DP 8/16 ANSI B92.1-1976

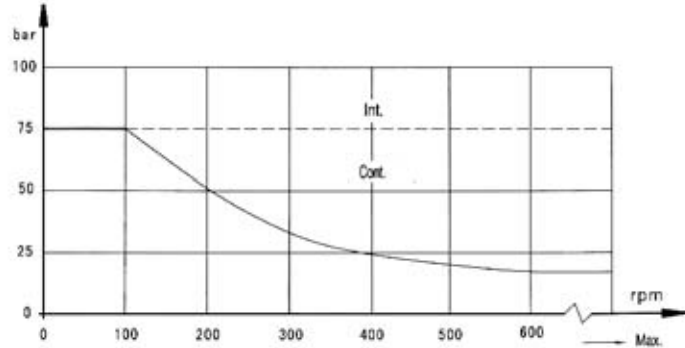
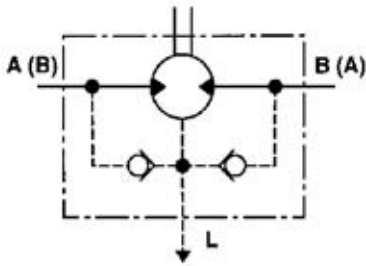


K - tapered 1:10, Parallel key B16x10x32 DIN 6885



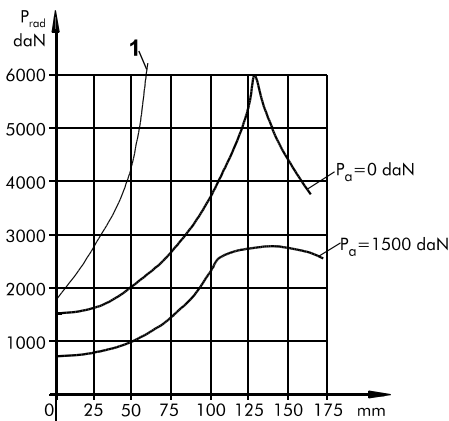
▽ - Motor Mounting Surface

Permissible shaft seal pressure.

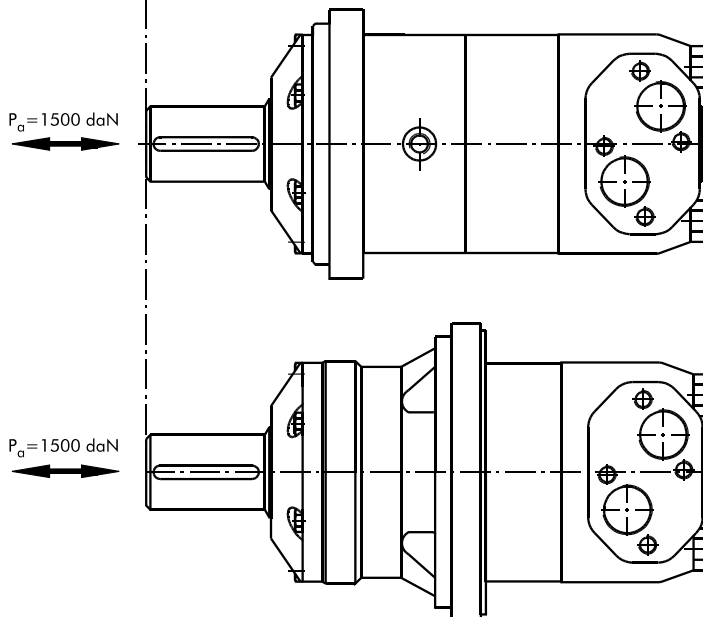


In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

Permissible Shaft Loads



The output shaft runs in tapered bearings that permit high axial and radial forces. Curve "1" shows max. Radial shaft load. Any shaft load exceeding the values quoted in the curve will seriously reduce motor life. The two other curves apply to a B10 bearing life of 3000 hours at 2000 RPM.





Hydraulic motor Series MAV Ordering Information

MAV	1	2	3	4
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Pos. 1 Displacement Code

315 - 19.2 [in.3/r]

400 - 24.5 [in.3/r]

500 - 30.5 [in.3/r]

630 - 38.6 [in.3/r]

800 - 49.0 [in.3/r]

Pos. 2 Mounting Flange

Omit - Square mount, 4 holes

W - Wheel mount (not available)

Pos. 3 Shaft Extensions

C - ϕ 50 straight, Parallel key A14x9x70

K - Tapered 1:10, Parallel key B16x10x32 (not available)

SH - ϕ 2 $\frac{1}{8}$ " splined 17T (not available)

Pos. 4 Rotation

Omit - Standard Rotation

R - Reverse Rotation