

### **Specification data**

Туре		MM 8	MM 12.5	MM 20	MM 32	MM 40	MM 50
Displacement, cm³/rev [in³/rev]		8,2 [.50]	12,5 [.77]	19,9 [1.22]	31,6 [1.93]	39,8 [2.43]	50 [3.08]
Max. Speed,	Cont.	1950	1550	1000	630	500	400
[RPM]	Int.*	2450	1940	1250	800	630	500
Max. Torque	Cont.	1,1 [95]	1,6 [140]	2,5 [220]	4,0 [350]	4,5 [400]	4,6 [410]
daNm [lb-in]	Int.*	1,5 [135]	2,3 [200]	3,5 [310]	5,7 [500]	7,0 [620]	8,8 [780]
	Peak**	2,1 [187]	3,3 [293]	5,1 [453]	6,4 [568]	8,2 [725]	10,0 [885]
Max. Output	Cont.	1,8 [2.4]	2,4 [3.2]	2,4 [3.2]	2,4 [3.2]	2,2 [3.0]	1,8 [2.4]
kW [HP]	Int.*	2,6 [3.5]	3,2 [4,3]	3,2 [4,3]	3,2 [4.3]	3,2 [4,3]	3,2 [4.3]
Max. Pressure Drop	Cont.	100 [1450]	100 [1450]	100 [1450]	100 [1450]	90 [1310]	70 [1020]
bar [PSI]	Int.*	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]
	Peak**	200 [2900]	200 [2900]	200 [2900]	160 [2320]	160 [2320]	160 [2320]
Max. Oil Flow	Cont.	16 [4.2]	20 [5.3]	20 [5.3]	20 [5.3]	20 [5.3]	20 [5.3]
lpm [GPM]	Int.*	20 [5.3]	25 [6.6]	25 [6.6]	25 [6.6]	25 [6.6]	25 [6.6]
Max. Injet Pressure	Cont.	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]
bar [PSI]	Int.*	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]
	Peak**	225 [3260]	225 [3260]	225 [3260]	225 [3260]	225 [3260]	225 [3260]
Max. Return Pressure	Cont. 0-100 RPM	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]
without Drain Line or	Cont. 100-400 RPM	105 [1500]	105 [1500]	105 [1500]	105 [1500]	105 [1500]	105 [1500]
Max. Pressure	Cont. 400-800 RPM	50 [725]	50 [725]	50 [725]	50 [725]	50 [725]	50 [725]
in Drain Line,	Cont. >800 RPM	20 [290]	20 [290]	20 [290]	-	-	-
bar [PSI]	Int.* 0-max. RPM	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]
Max. Return Pressure	Cont.	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]
with Drain Line	Int.*	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]
bar [PSI]	Peak**	225 [3260]	225 [3260]	225 [3260]	225 [3260]	225 [3260]	225 [3260]
Max. Starting Pressure with						$n_{\lambda}$	
Unloaded Shaft, bar [PSI]		4 [60]	4 [60]	4 [60]	4 [60]	4 [60]	4 [60]
Min. Starting Torque	At max. press. drop Cont.	0,7 [60]	1,2 [105]	2,1 [185]	3,4 [300]	3,8 [335]	4,1 [365]
daNm [lb-in]	At max, press, drop Int.*	1,0 [90]	1,7 [150]	2,9 [255]	4,8 [425]	6,2 [550]	7,9 [700]
Min. Speed***, [RPM]		50	40	30	30	25	20
Weight, kg [lb]	MM	1,9 [4.2]	2,0 [4.41]	2,1 [4.63]	2,2 [4.85]	2,3 [5.07]	2,5 [5.51]
For "F" flange:	MMF(S)	2,0 [4.41]	2,1 [4.63]	2,2 [4.85]	2,3 [5.07]	2,4 [5.29]	2,6 [5.73]
+ 0,200 [.441]	MMP	2,2 [4.85]	2,3 [5.07]	2,4 [5.29]	2,5 [5.51]	2,6 [5.73]	2,8 [6.17]
	MMD	2,6 [5.73]	2,7 [5.95]	2,8 [6.17]	2,9 [6.39]	3.0 [6.61]	3,2 [7.05]



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#### Specification data—continued

- \* Intermittent operation: the permissible values may occur for max. 10% of every minute.
- \*\* Peak load: the permissible values may occur for max. 1% of every minute.
- \*\*\* For speeds lower than given, consult factory or your regional manager.
- 1. Intermittent speed and intermittent pressure must not occur simultaneously.
- 2. Recommended filtration is per ISO cleanliness code 20/16. A nominal filtration of 25 micron or better.
- Recommend using a premium quality, anti-wear type mineral based hydraulic oil HLP(DIN51524) or HM (ISO 6743/4). If using synthetic fluids consult the factory for alternative seal materials.
- 4. Recommended minimum oil viscosity 13 mm²/s [70 SUS] at 50°C [122°F].
- 5. Recommended maximum system operating temperature is 82°C [180°F].
- 6. To assure optimum motor life fill with fluid prior to loading and run at moderate load and speed for 10-15 minutes.

MM series motor are small volume, economical type, which is designed with shaft distribution flow, which adapt the Gerotor gear set design and provide compact volume, high power and low weight.

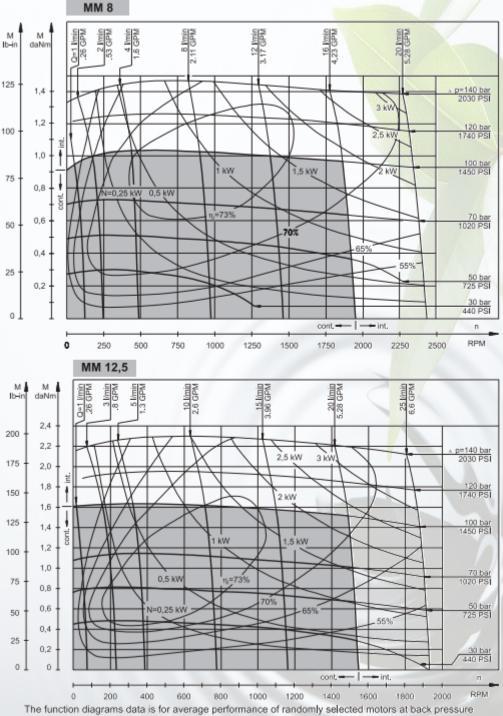
#### **CHARACTERISTICS FEATURES**

- \* Advanced manufacturing devices for the Gerotor gear set, which provide small volume, high efficiency and long life.
- \* Shaft seal can bear high pressure of motor of which can be used in parallel or in series.
- \* Advanced construction design, high power and low weight.





### **PERFORMANCE DATA**

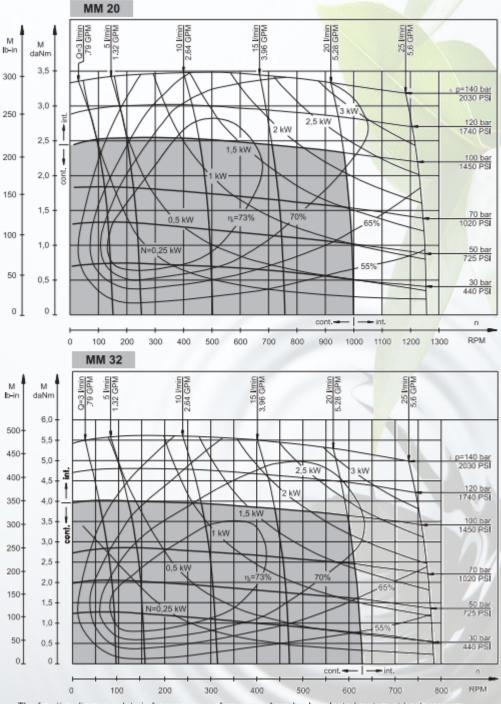


5+10 bar [72.5+145 PS]] and oil with viscosity of 32 mm<sup>2</sup>/s [150 SUS] at 50°C [122°F].





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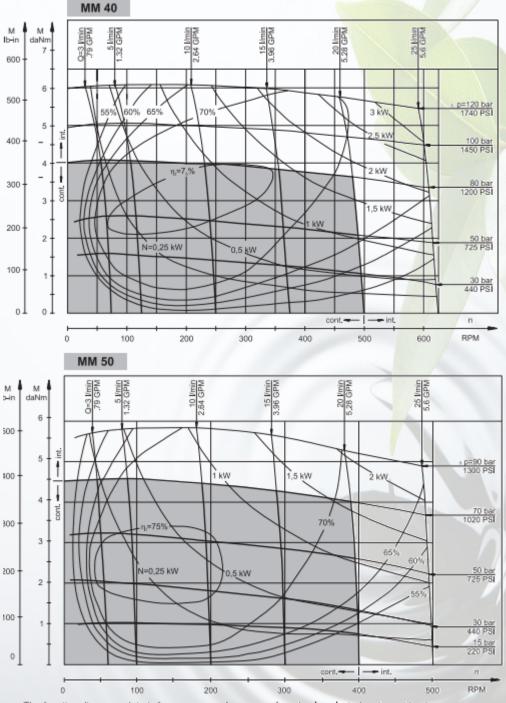


The function diagrams data is for average performance of randomly selected motors at back pressure 5+10 bar [72.5+145 PSI] and oil with viscosity of 32 mm²/s [150 SUS] at 50°C [122°F].





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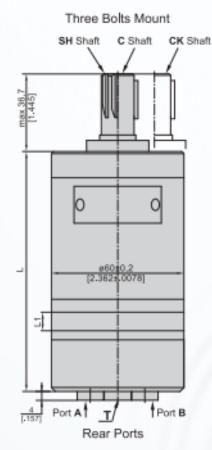


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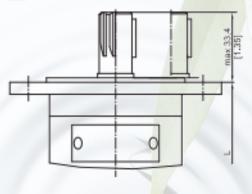


#### **OVERVIEW DRAWING**



S Side Ports

F Oval Mount (2 Holes)

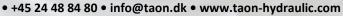


Standard Rotation Viewed from Shaft End Port A Pressurized - CW Port B Pressurized - CCW

Reverse Rotation Viewed from Shaft End Port A Pressurized - CCW Port B Pressurized - CW

Туре	L (mm)	Туре	L (mm)
MM8	104	MMS8	105
MM12	106	MMS12	107
MM20	109	MMS20	110
MM32	114	MMS32	115
MM40	117,55	MMS40	118,52
MM50	121,5	MMS50	122,55

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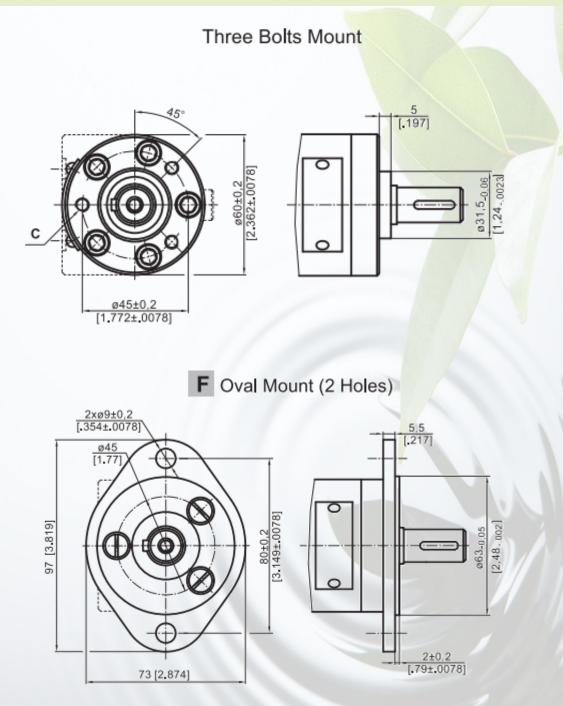


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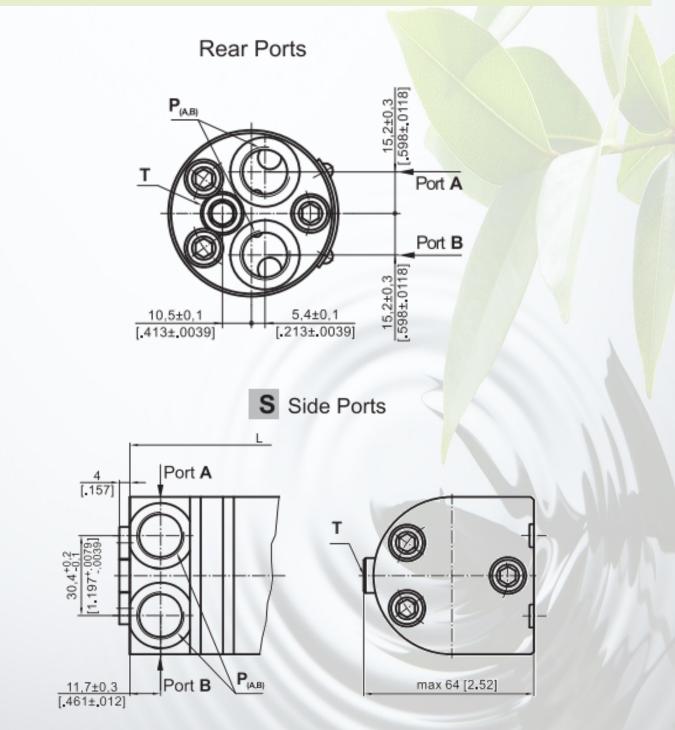
**OVERVIEW DRAWING - MOUNTING** 







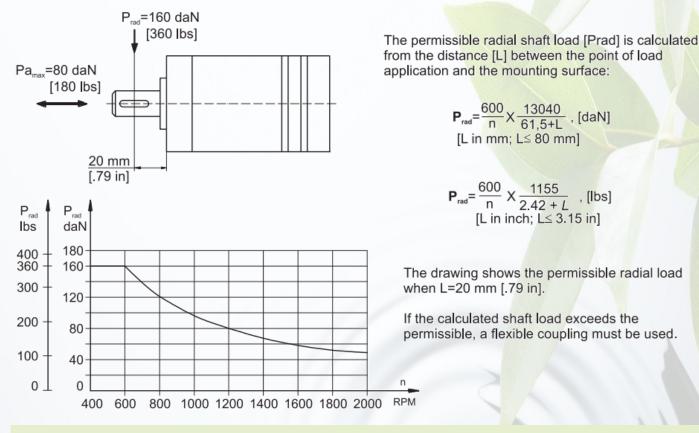
**OVERVIEW DRAWING - PORTS** 







#### PERMISSIBLE SHAFT LOAD



SHAFT EXTENSIONS



