

Low speed high torque motor

CE



TÜV Rheinland EUROQUA

GENERAL INFORMATION

MGL motors are a light series in CAPRONI product line. MGL series is a gerotor design with spool valve which includes high pressure HNBR shaft seal, so that an external drain is never required. This is an economical motor for most light to medium duty applications.

In order MGL motors to have optimal working conditions, the following recommendations should be kept:

- Recommended Fluids – mineral based hydraulic oils with viscosity range of 32-46 mm²/s at 40°C, should be used.
- Operating temperature should be in the range of 20-60°C
- Contamination of the working oil during the time of operation should not exceed the class of 20/16 ISO 4406.
- In order to be in compliance with this requirement the integrated filter in the hydraulic system should have nominal degree of filtration 25µ.

Before starting operation the following steps are recommended for maximal life:

- Before starting fill the motor with oil.
- Run the motor without load for 15 minutes in order to purge the air of the system.
- The system should work without load for 30 minutes with 10µ installed filter in order to rinse it.

After these procedures the recommended filter should be mounted and the system should be ready for regular operation.

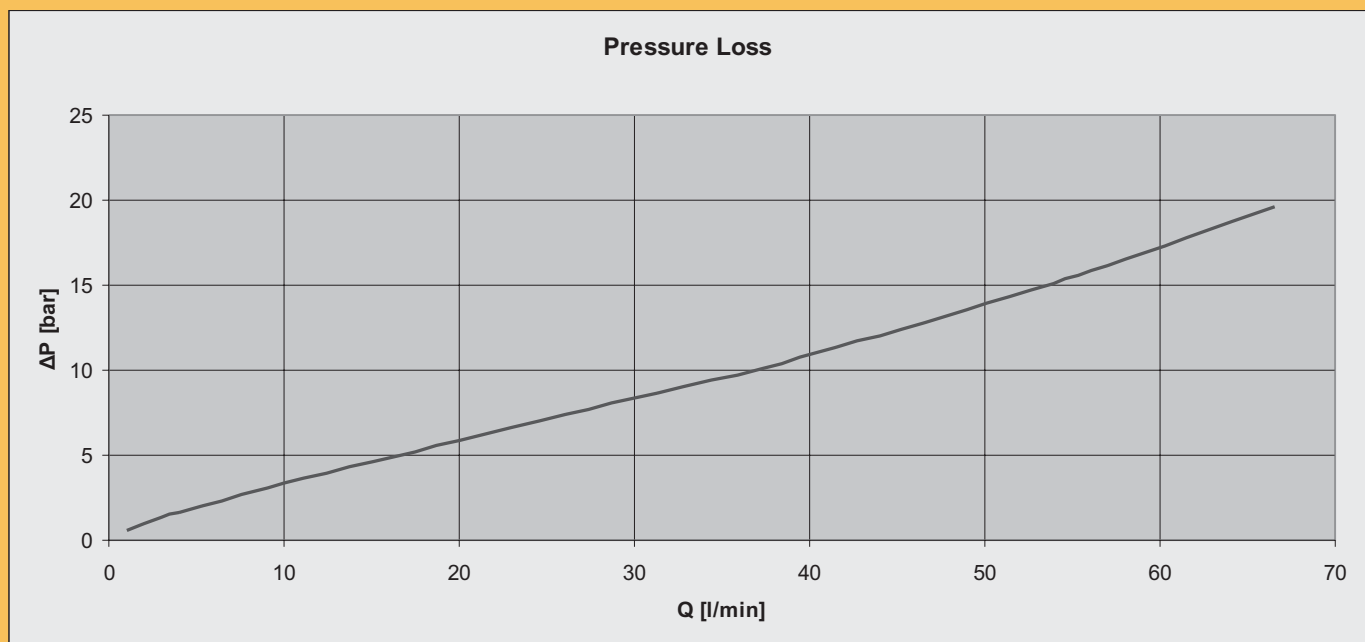
Displacement	[cm ³ /rev.]	50 ÷ 315
Maximum pressure	[bar]	140
Maximum oil flow	[lpm]	25 ÷ 60
Maximum speed	[RPM]	603
Maximum torque	[daNm]	7.4 ÷ 30.5
Minimum speed	[RPM]	10
Temperature range	[°C]	-30 ÷ 90
Viscosity range	[mm ² /s]	20 ÷ 75

PERFORMANCE DATA

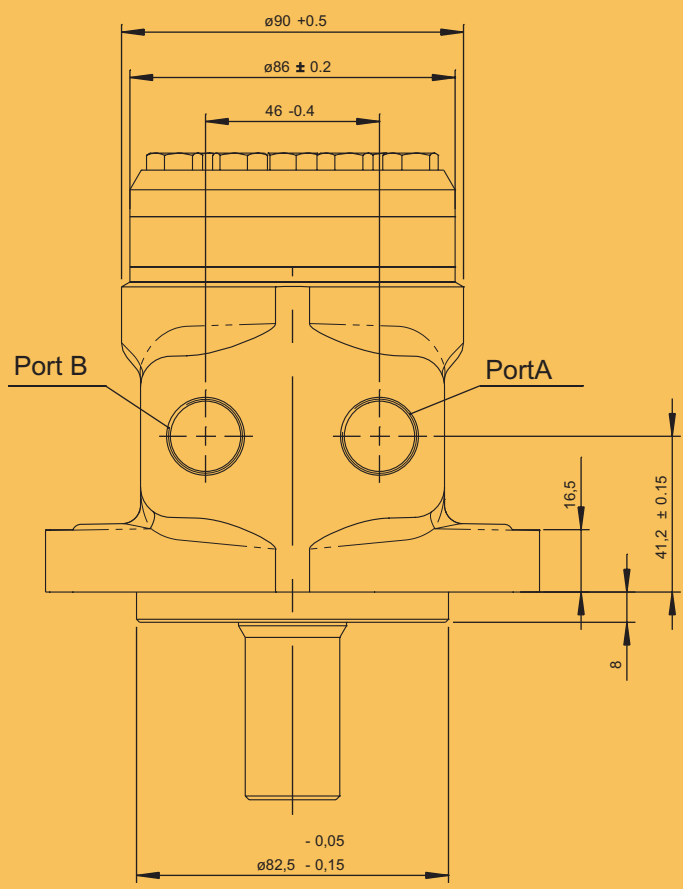
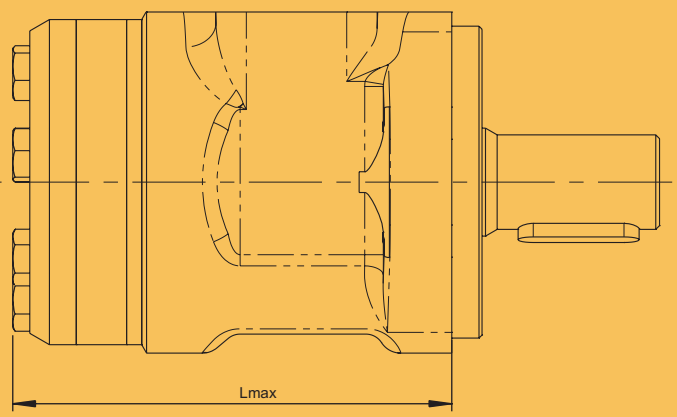
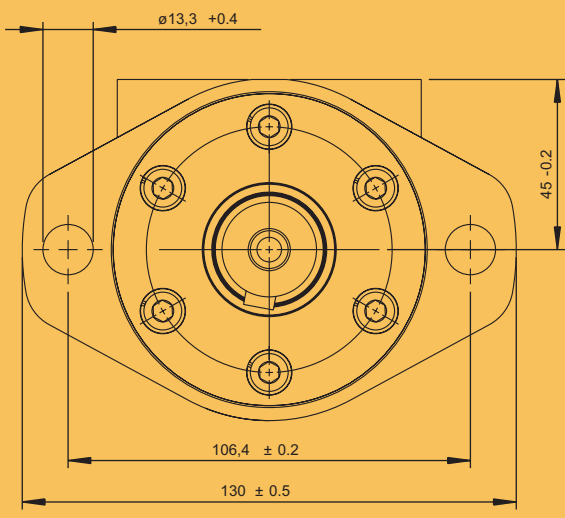
Type		MGL 50	MGL 70	MGL 100	MGL 130	MGL 160	MGL 200	MGL 250	MGL 315
Displacement [cm ³ /rev.]		49.7	69.6	101.2	129.4	159.3	200.8	249.7	314.6
Max. Speed	Cont.	603	430	490	380	300	240	230	190
	Int.*	810	646	590	460	360	290	270	220
Max. Torque [daNm]	Cont.	7,4	11	14,7	19,5	24,6	28	28,4	30,5
	Int.*	8,8	13,4	18,2	23,2	28,2	34	34,5	38,2
Max. Output [KW]	Cont.	4,6	4,8	7,4	7,6	7,6	6,9	6,7	5,9
	Int.*	7,3	8,9	11	11	10,4	10,1	9,6	8,6
Max. Oil Flow [l/min]	Cont.	30	30	50	50	50	50	60	60
	Int.*	45	45	60	60	60	60	70	70
Max. Pressure [bar]	Cont.	120	120	120	120	105	105	105	90
	Int.*	140	140	140	140	120	120	120	110
	Peak**	175	175	175	175	175	175	175	175
Min. Speed [RPM]		10	10	10	10	10	10	10	10

* Intermittent duty must not exceed 10% of every minute

** Peak duty must not exceed 1% of every minute



MOUNTING

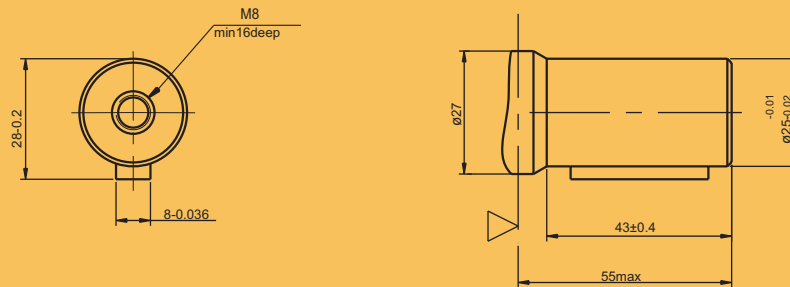


Type	L*
MGL 50 ...	109
MGL 70 ...	112
MGL 100 ...	116
MGL 130 ...	120
MGL 160 ...	125
MGL 200 ...	128
MGL 250 ...	135
MGL 315 ...	141

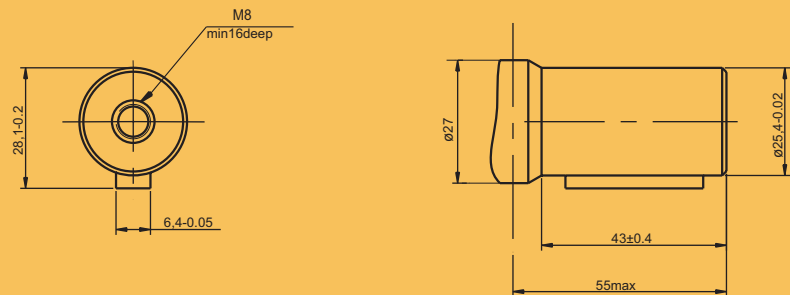
Port(A,B): 2xG1/2 or 2xM22x1,5 - 15mm depth

SHAFTS

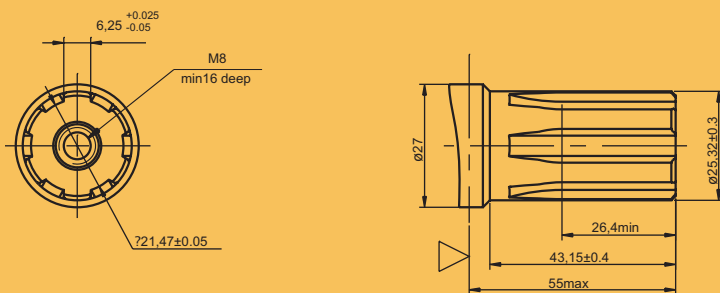
S - Parallel key A8x7x32 DIN 6885
Max. torque 34daNm



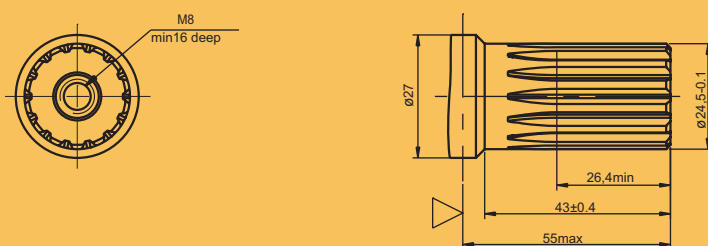
SC - Parallel key $\frac{1}{4} \times \frac{1}{4} \times 1 \frac{1}{4}$ BS46
Max. torque 34daNm



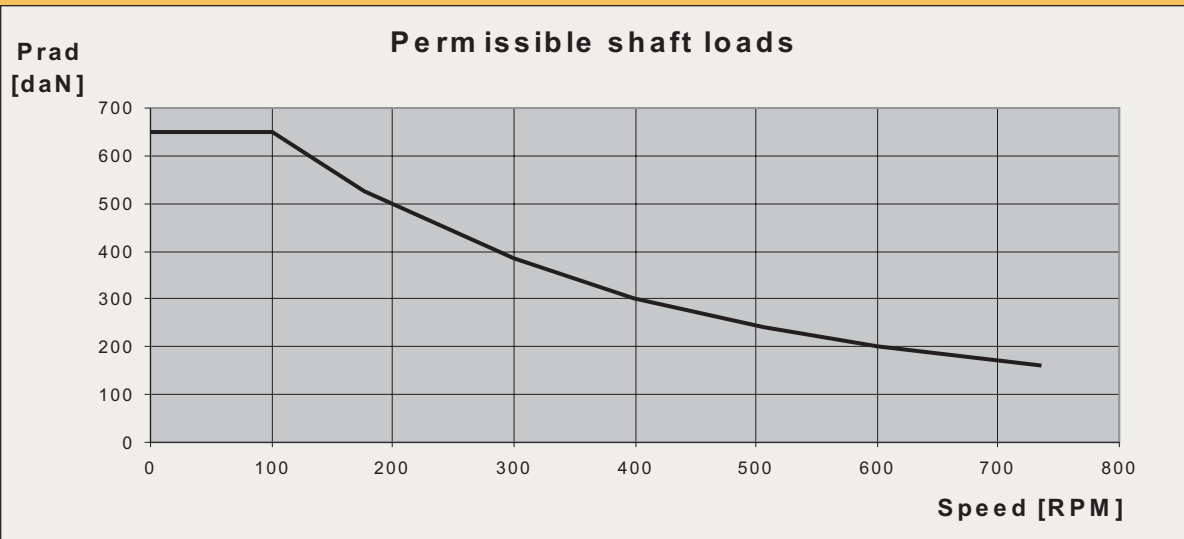
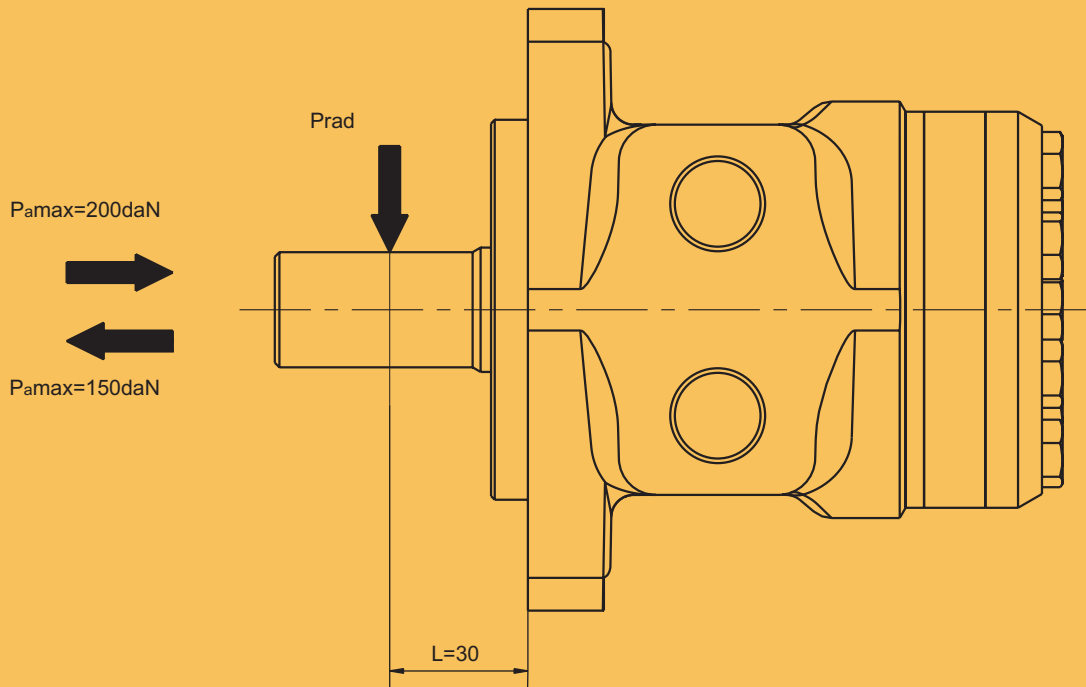
SB - Splined, BS2059, Deep splines 1', Fit2
Max. torque 40daNm



SE - Splined DIN5482, B25x22 h9
Max. torque 40daNm

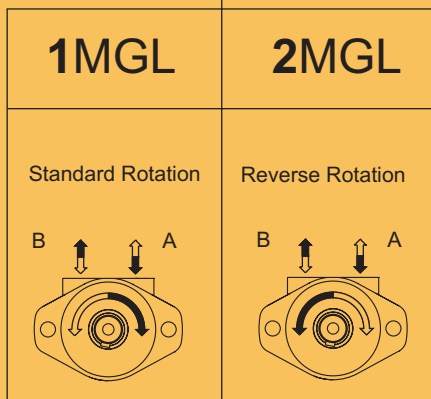


TECHNICAL DATA



ORDERING CODE

MGL 1/P1



CODE	Ports
G	G1/2 BSPP
M	M22x1,5 Metric

Standard option

CODE	Displacement cm ³ /rev
50	49.7
70	69.6
100	101.2
130	129.4
160	159.3
200	200.8
250	249.7
315	314.6

CODE	Shafts
S	Ø25mm straight, Parallel key A8x7x32 DIN 6885
SC	Ø25,4mm straight, Parallel key 1/4" x 1/4" x 1 1/4" BS46
SB	Ø25,32 Splined, BS2059
SE	Ø24,5 Splined B25x22 h9, DIN5482



Caproni

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