

GENERAL INFORMATION



- Applications:
- Agricultural harvesters and seeders
 - Conveyors
 - Machine tools
 - Food industries
 - Turn equipment
 - Brush drivers
 - Sweepers and floor polishers
 - Screw drivers
 - and more

MHLR motors are created for medium duty applications on the basis of a spool valve that is optimized for a higher efficiency, and a G-roller stator. G-roller consists of precise rollers to eliminate the friction between the rotor and the stator, and they additionally increase the efficiency of the motor by app. 15%. The check valves built-in the motor can reduce the pressure in the internal area to the return line pressure.

The motor can be made in versions with seals for low or for high pressure.

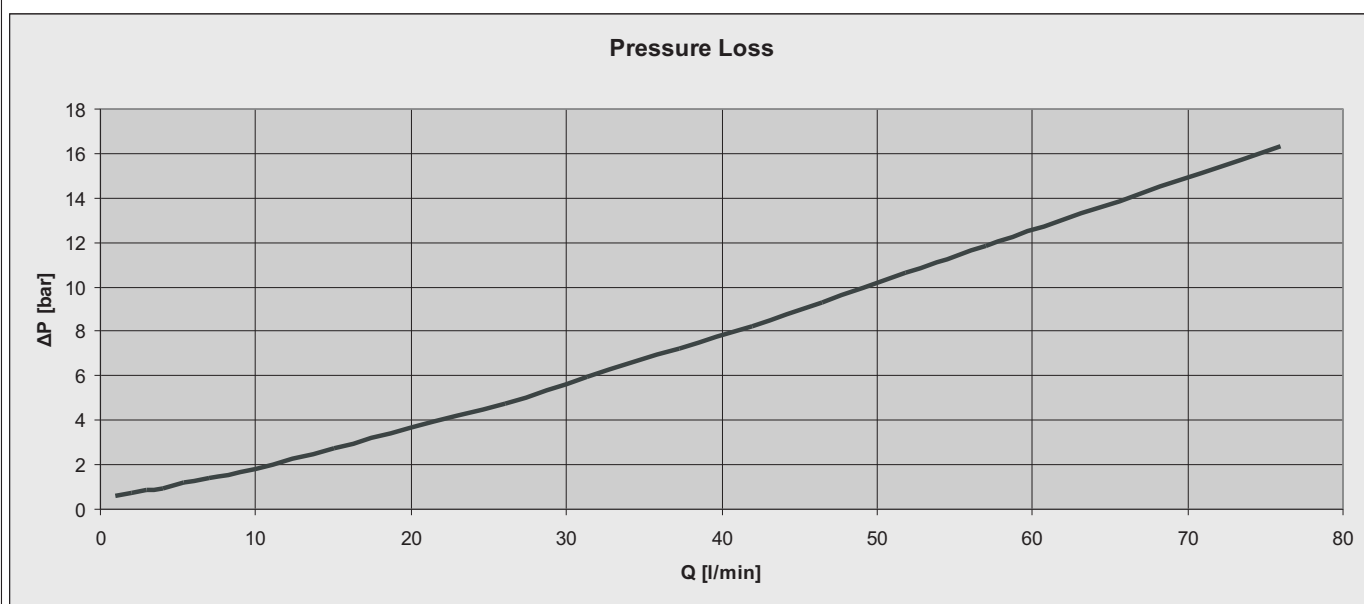
Displacement	[cm ³ /rev.]	50 ÷ 400
Maximum pressure	[bar]	175
Maximum oil flow	[lpm]	25 ÷ 60
Maximum speed	[RPM]	770
Maximum torque	[daNm]	10 ÷ 38
Minimum speed	[RPM]	10
Temperature range	[°C]	-30 ÷ 90
Viscosity range	[mm ² /s]	20 ÷ 75
Filtration		20/16 ISO 4406 (recommended filtration 25µ)

PERFORMANCE DATA

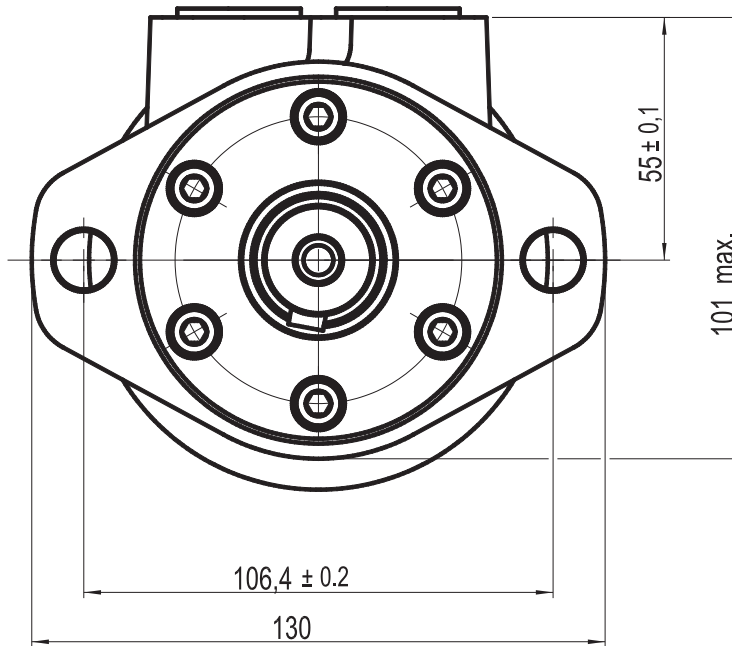
Type		MHLR 50	MHLR 80	MHLR 100	MHLR 125	MHLR 160	MHLR 200	MHLR 250	MHLR 315	MHLR 400
Displacement [cm ³ /rev.]		50,8	80,6	101,5	124,3	158,8	201,2	251,3	314,3	399,1
Max. Speed	Cont.	770	740	600	470	370	300	240	190	150
	Int.*	950	920	740	590	480	370	300	230	180
Max. Torque [daNm]	Cont.	10	20	23	30	38	39	39	38	38
	Int.*	13	23	30	34	44	46	46	44	44
Max. Output [KW]	Cont.	7,5	13	14	14	13	9	7	5,9	4,5
	Int.*	9	15	15,5	15,5	15	11	10	8,6	7,8
Max. Oil Flow [l/min]	Cont.	40	60	60	60	60	60	60	60	60
	Int.*	50	75	75	75	75	75	75	75	75
Max. Pressure Drop [bar]	Cont.	150	150	150	150	150	120	110	100	90
	Int.*	175	175	175	175	175	150	150	130	120
	Peak**	200	200	200	200	200	200	175	175	150
Min. Speed [RPM]		10	10	10	10	10	10	10	10	10

* Intermittent duty must not exceed 10% of every minute

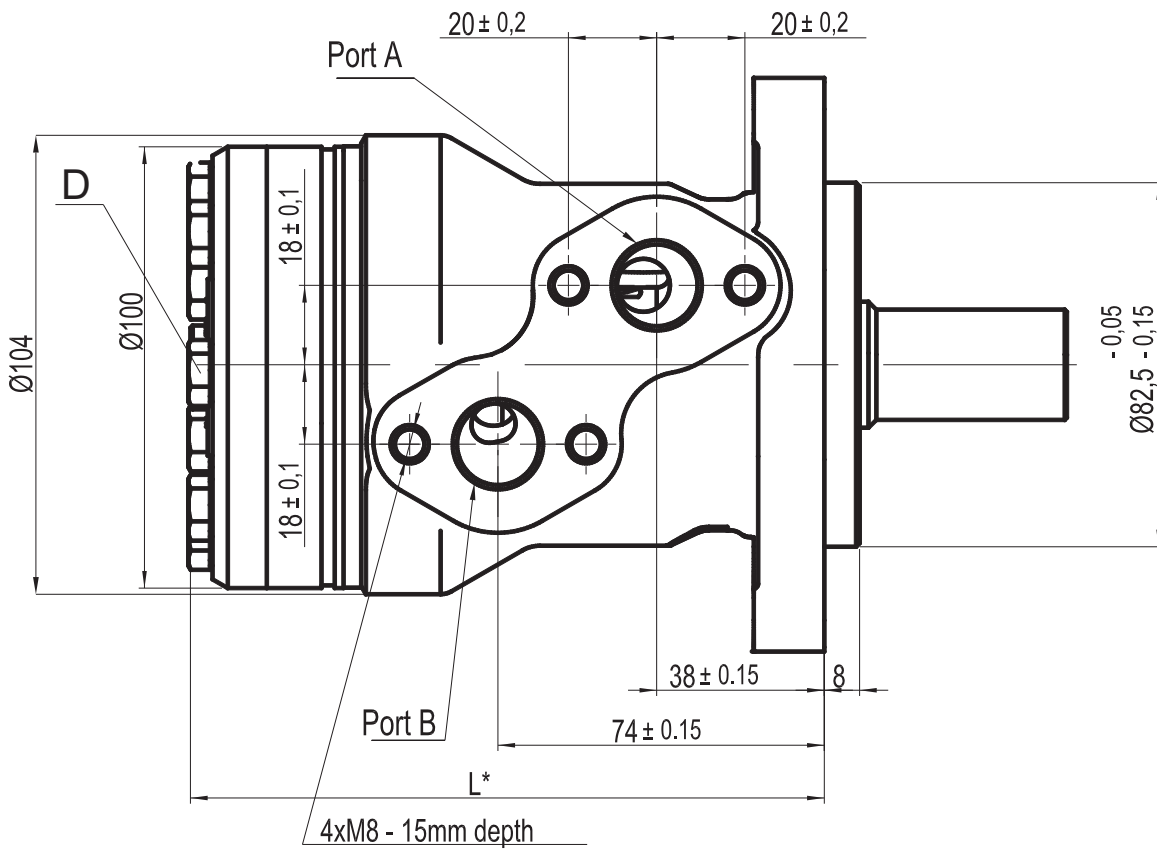
** Peak duty must not exceed 1% of every minute



MOUNTING



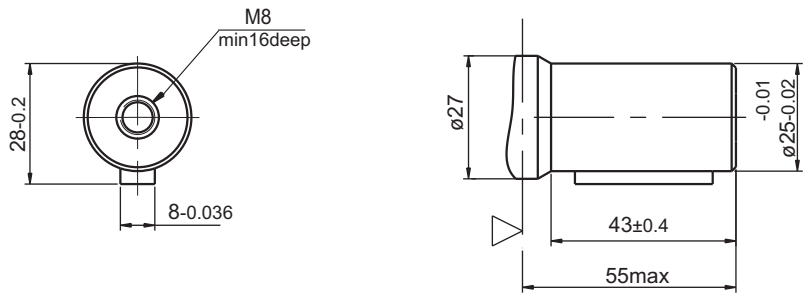
Type	L* [mm]	Weigh [Kg]
MHLR 50 ...	135	7
MHLR 80 ...	140	7,3
MHLR 100 ...	143	7,5
MHLR 125 ...	148	7,7
MHLR 160 ...	154	8
MHLR 200 ...	161	8,4
MHLR 250 ...	170	8,8
MHLR 315 ...	181	9,4
MHLR 400 ...	195	10



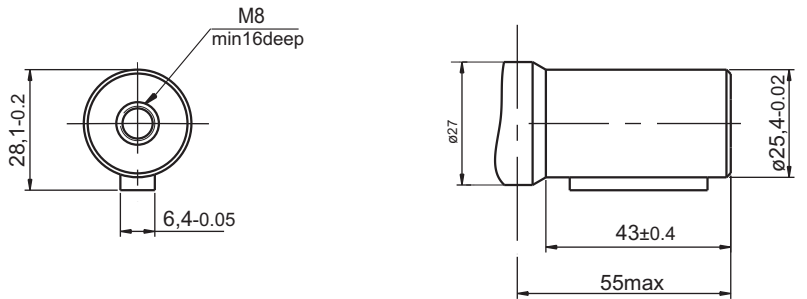
Port(A,B): 2xG1/2 or 2xM22x1,5 - 15mm depth
 Port(D): G1/4 or M14x1,5 -12mm

SHAFTS

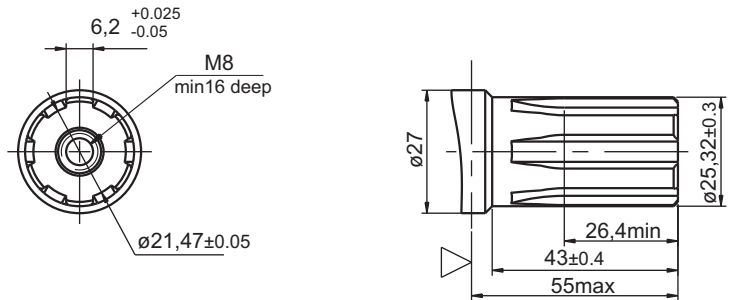
S - Parallel key A8x7x32 DIN 6885
Max. torque 34daNm



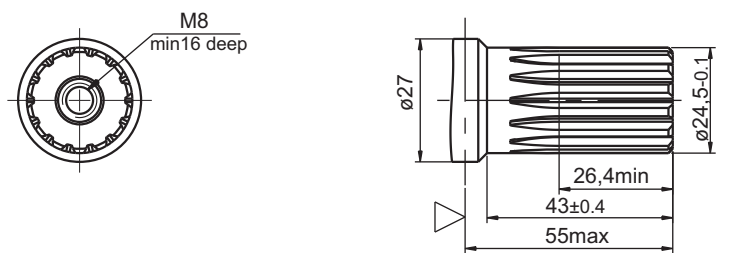
SC - Parallel key $\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}$ BS46
Max. torque 34daNm



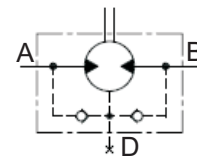
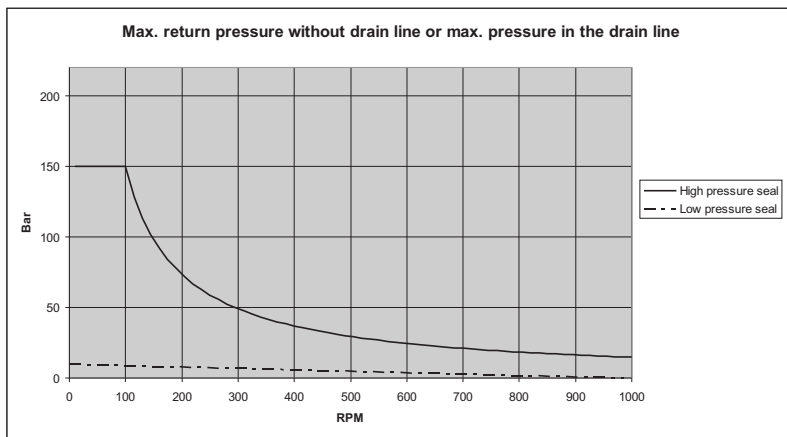
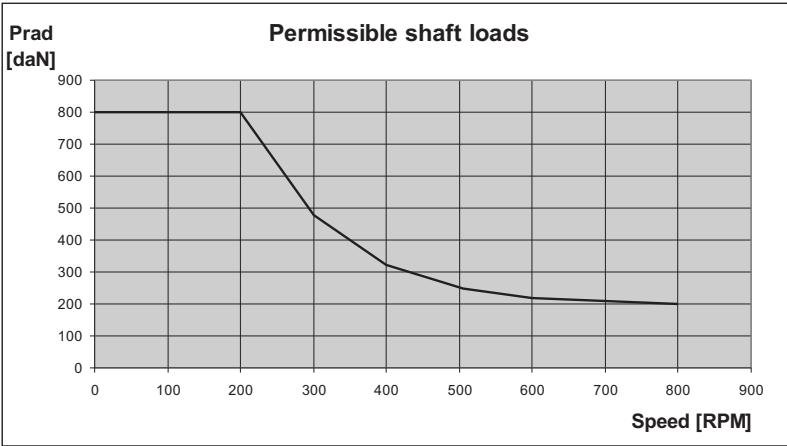
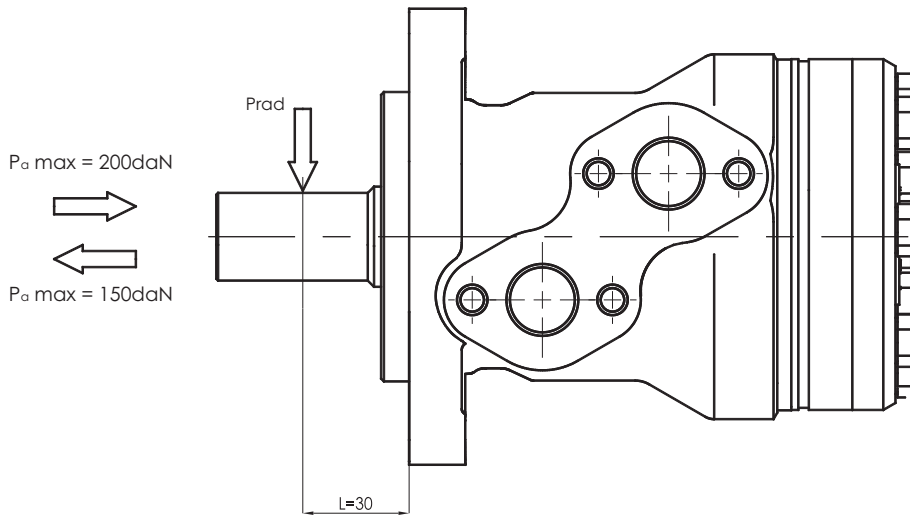
SB - Splined, BS2059, Deep splines 1', Fit2
Max. torque 40daNm



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



TECHNICAL DATA



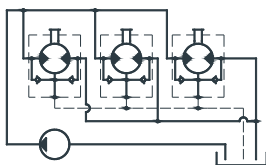
MHLR motors are characterized with built-in check valves. The shaft seal pressure equals the motor return pressure. If return pressure exceeds the rate of the figure, the drain line must be connected.

An option with a seal for low pressure can be chosen if the drain port is connected or the motor operates separately or in parallel circuit.

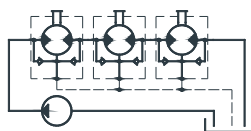
An option with a seal for high pressure should be chosen in case the motor operates in series connection and the drain port is not connected.

In any case, the connection of the drain port is recommended for prolonging the validity term of the shaft seal.

Parallel connection

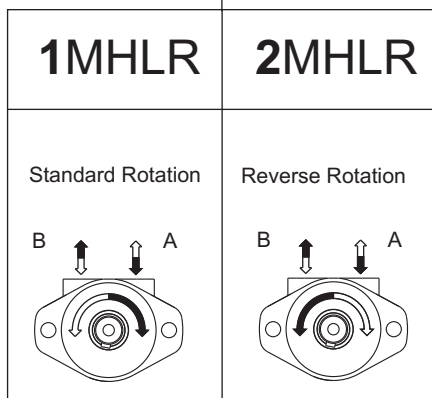


Series connection



ORDERING CODE

MHLR H



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

H – High pressure shaft seal
omit – Low pressure shaft seal

CODE	Displacement cm ³ /rev
50	50.8
80	80.6
100	101.5
125	124.3
160	158.8
200	201.2
250	251.3
315	314.3
400	399.1

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