

GENERAL INFORMATION



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

MHL motors are created for medium duty applications on the basis of a spool valve that is optimized for a higher efficiency, and a G-rotor. 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.

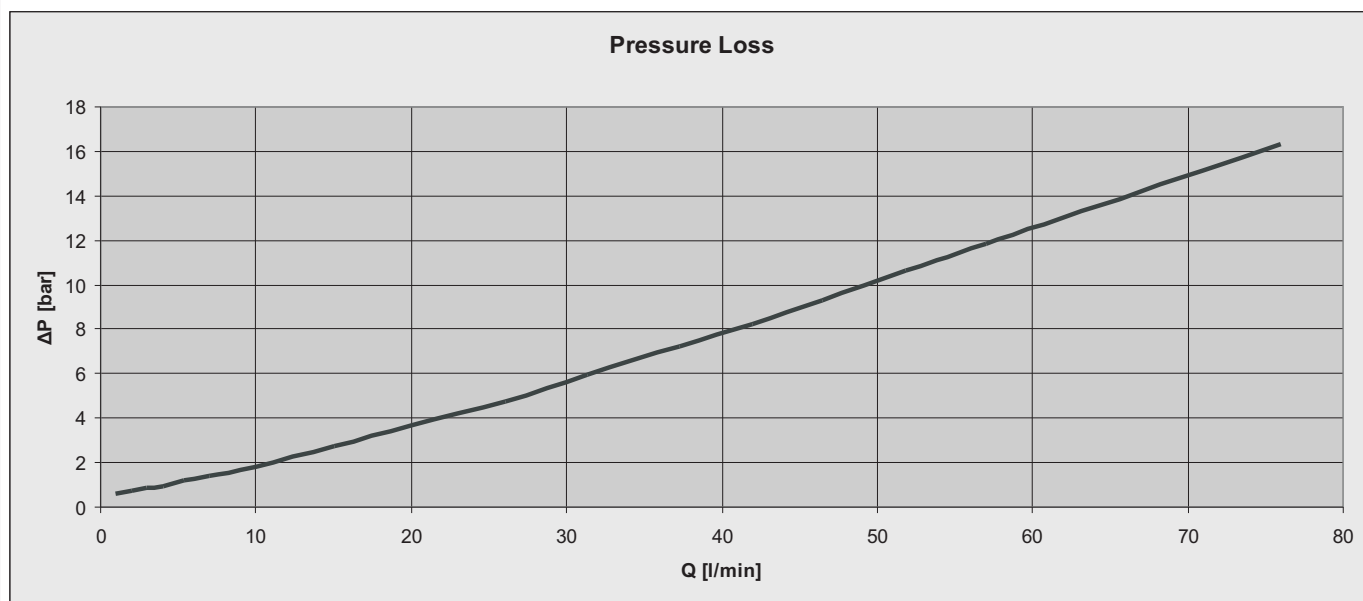
Displacement	[cm <sup>3</sup> /rev.]	50 ÷ 400
Maximum pressure	[bar]	175
Maximum oil flow	[lpm]	25 ÷ 60
Maximum speed	[RPM]	1200
Maximum torque	[daNm]	9.4 ÷ 37.5
Minimum speed	[RPM]	10
Temperature range	[°C]	-30 ÷ 90
Viscosity range	[mm <sup>2</sup> /s]	20 ÷ 75
Filtration		20/16 ISO 4406 (recommended filtration 25µ)

**PERFORMANCE DATA**

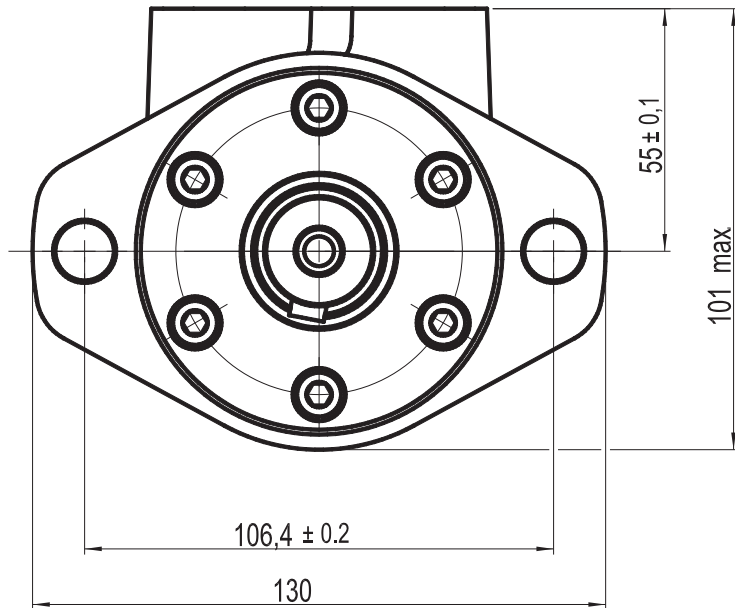
Type		MHL 50	MHL 80	MHL 100	MHL 125	MHL 160	MHL 200	MHL 250	MHL 315	MHL 400
Displacement [cm <sup>3</sup> /rev.]		49.7	79.2	101.2	122.8	159.3	200.8	249.7	314.6	398
Max. Speed	Cont.	1200	750	600	480	375	300	240	190	150
	Int.*	1500	930	750	600	480	370	300	230	180
Max. Torque [daNm]	Cont.	9,4	15	19	23,5	31	36	37,5	36	36
	Int.*	11,8	19	23	29	37	44	52	55	58
Max. Output [KW]	Cont.	10	10	10	10	10	9	7	5,9	4,5
	Int.*	12	12	12	12	12	11	10	8,6	7,8
Max. Oil Flow [l/min]	Cont.	60	60	60	60	60	60	60	60	60
	Int.*	75	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

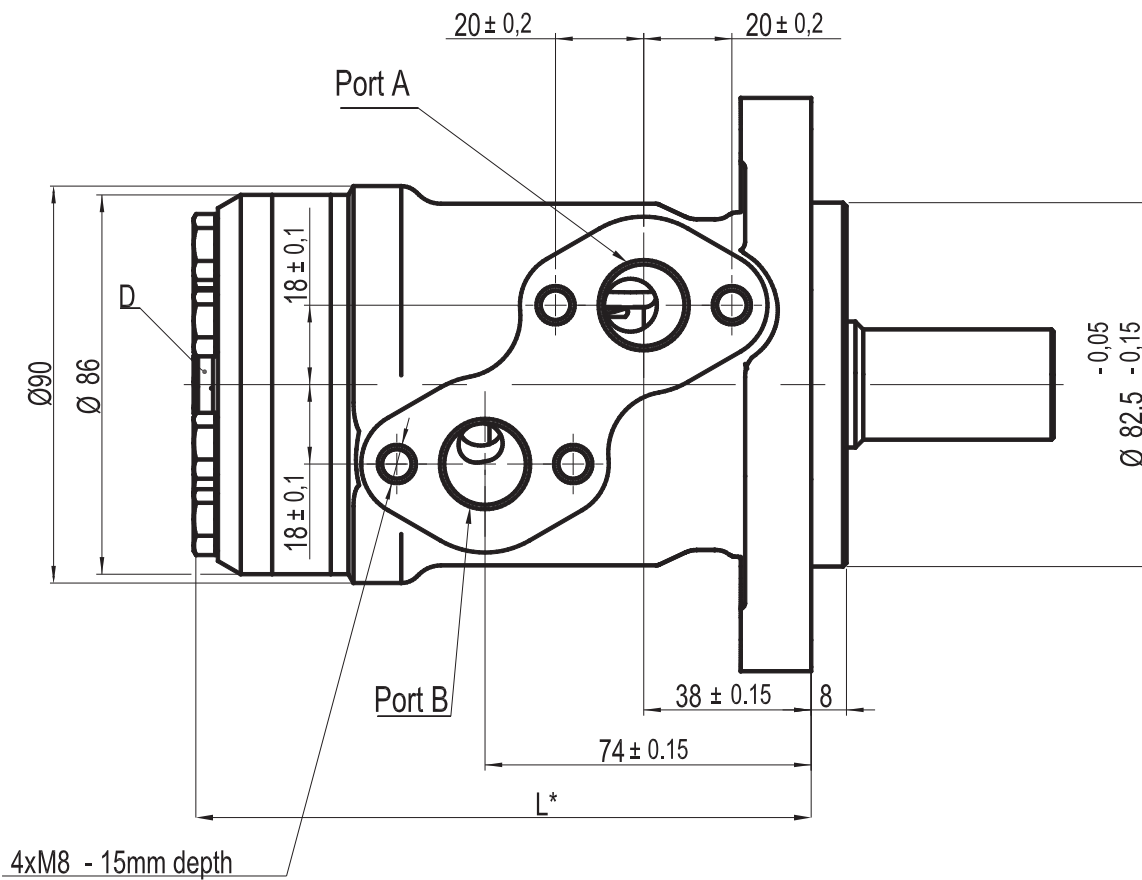
\*\* Peak duty must not exceed 1% of every minute



MOUNTING



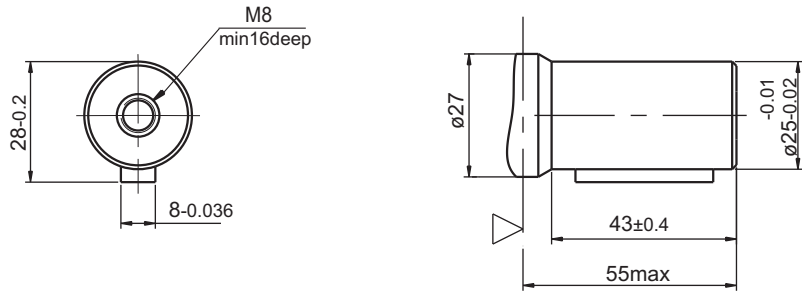
Type	L* [mm]	Weigh [Kg]
MHL 50 ...	133	6
MHL 80 ...	136	6,1
MHL 100 ...	140	6,3
MHL 125 ...	144	6,4
MHL 160 ...	149	6,6
MHL 200 ...	152	6,7
MHL 250 ...	159	6,9
MHL 315 ...	165	7,2
MHL 400 ...	178	7,6



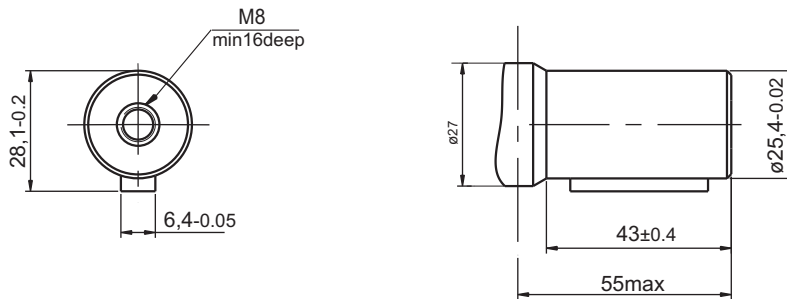
Port(A,B): 2xG1/2 or 2xM22x1,5 - 15mm depth  
 Port(D):G1/4 or M14x1,5 -12mm

SHAFTS

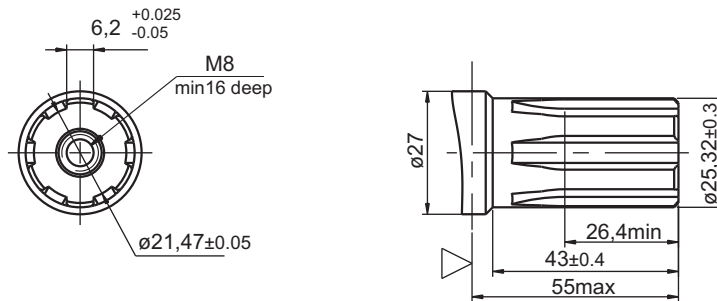
**S** - Parallel key A8x7x32 DIN 6885  
Max. torque 34daNm



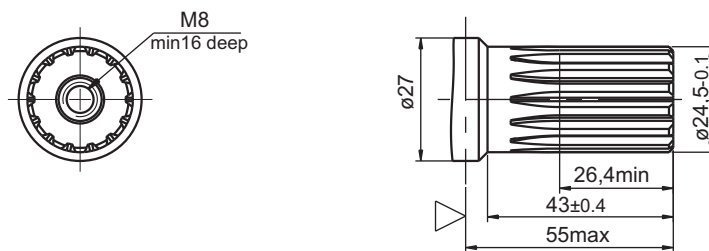
**SC** - Parallel key  $\frac{1}{4} \times \frac{1}{4} \times 1 \frac{1}{4}$ " BS46  
Max. torque 34daNm



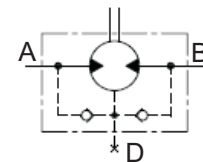
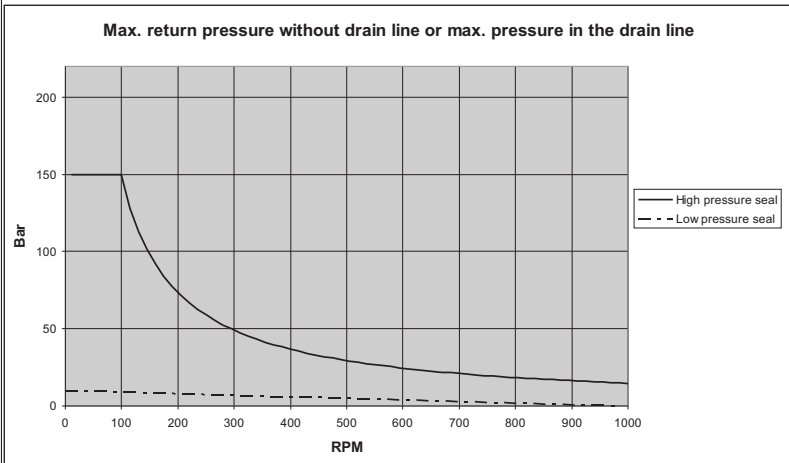
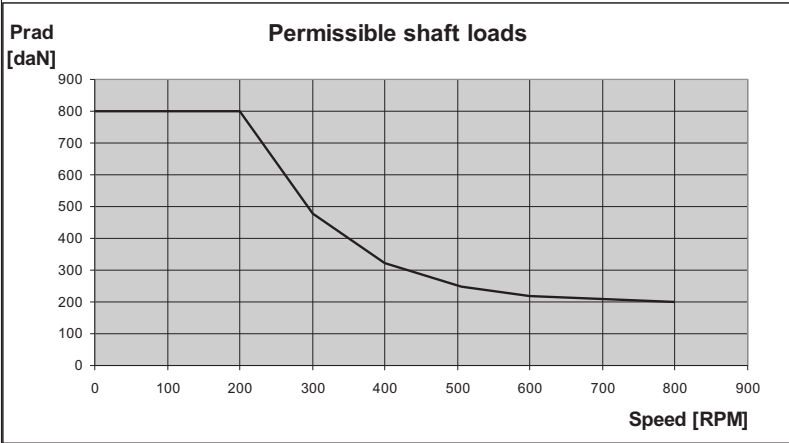
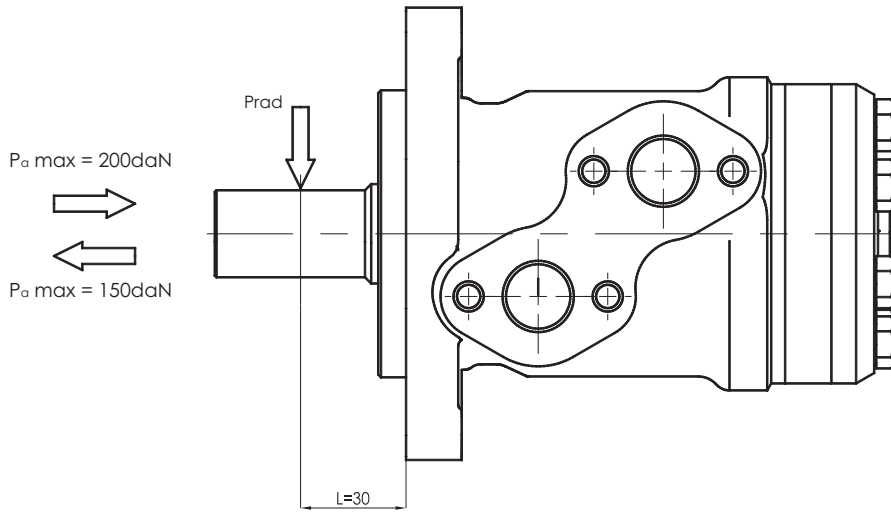
**SB** - Splined, BS2059, Deep splines  $1 \frac{1}{4}$ ", Fit2  
Max. torque 40daNm



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



TECHNICAL DATA



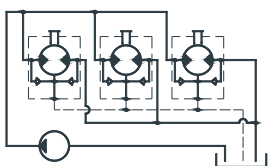
MHL motors are characterized with built-in check valves. The shaft seal pressure equals the motor return pressure. If return pressure exceeds the rate of the figure, the drain line must be connected.

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.

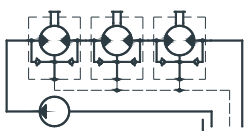
An option with a seal for high pressure should be chosen in case the motor operates in series connection and the drain port is not connected.

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

Parallel connection



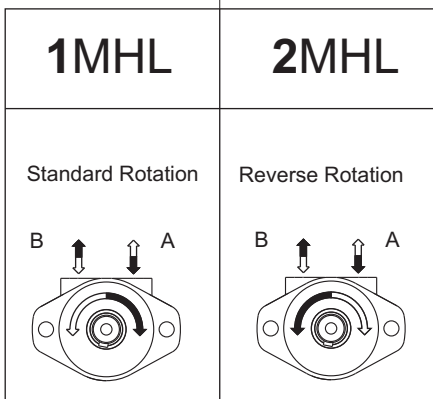
Series connection



**ORDERING CODE**

**MHL**

**H**



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

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

CODE	Displacement cm <sup>3</sup> /rev
50	49.7
80	79.2
100	101.2
125	122.8
160	159.3
200	200.8
250	249.7
315	314.6
400	398

CODE	Shafts
S	Ø25mm straight, Parallel key A8x7x32 DIN 6885
SC	Ø25,4mm straight, Parallel key ¼" x ¼" x 1 ¼" BS46
SB	Ø25,32 Splined, BS2059
SE	Ø24,5 Splined B25x22 h9, DIN5482