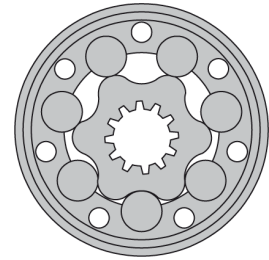


HYDRAULIC MOTORS OH



OIL FLOW IN DRAIN LINE

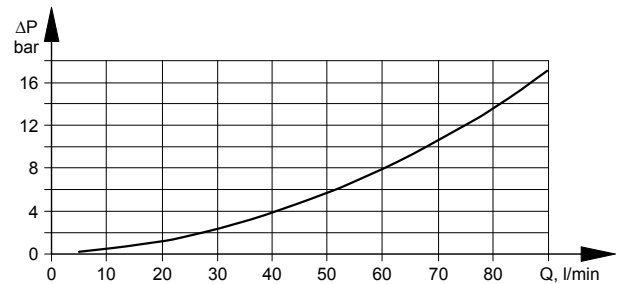
| Pressure drop (bar) | Viscosity (mm ² /s) | Oil flow in drain line (l/min) |
|---------------------|--------------------------------|--------------------------------|
| 100 | 20 | 2,5 |
| | 35 | 1,8 |
| 140 | 20 | 3,5 |
| | 35 | 2,8 |



GENERAL

| | |
|---|---|
| Displacement, (cm ³ /rev) | 201,3 ÷ 502,4 |
| Max. Speed, (RPM) | 370 ÷ 150 |
| Max. Torque, (daNm) | 51 ÷ 85 |
| Max. Output, (kW) | 16 ÷ 11 |
| Max. Pressure Drop, (bar) | 175 ÷ 125 |
| Max. Oil Flow, (l/min) | 75 |
| Min. speed, (RPM) | 10 ÷ 5 |
| Pressure fluid | Mineral based - HLP (DIN 51524) or HM (ISO 6743/4) |
| Temperature range, (°C) | - 30 ÷ 90 |
| Optimal Viscosity range, (mm ² /s) | 20 ÷ 75 |
| Filtration | ISO code 20/16 (Min. recommended fluid filtration of 25 micron) |

PRESSURE LOSSES



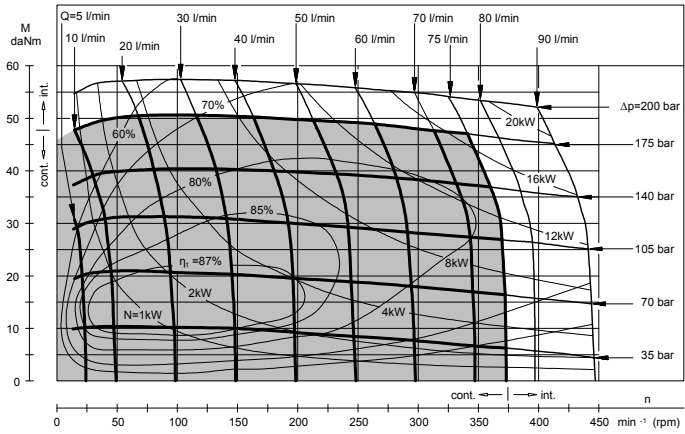
SPECIFICATION DATA

| Type | | OH 200 | OH 250 | OH 315 | OH 400 | OH 500 |
|---|--------------------------|---------|--------|--------|--------|--------|
| Displacement [cm ³ /rev] | | 201,3 | 252 | 314,9 | 396,8 | 502,4 |
| Max. Speed, [RPM] | cont. | 370 | 295 | 235 | 185 | 150 |
| | int. | 445 | 350 | 285 | 225 | 180 |
| Max. Torque [daNm] | cont. | 51 | 61 | 74 | 84 | 85 |
| | int. | 58 | 70 | 82 | 98 | 104 |
| | peak | 64 | 79 | 98 | 109 | 117 |
| Max. Output [kW] | cont. | 16 | 16 | 14 | 12,5 | 11 |
| | int. | 18,5 | 18,5 | 15,5 | 15 | 14 |
| Max. Pressure Drop [bar] | cont. | 175 | 175 | 175 | 155 | 125 |
| | int. | 200 | 200 | 200 | 190 | 160 |
| | peak | 225 | 225 | 225 | 210 | 180 |
| Max. Oil Flow [l/min] | cont. | 75 | 75 | 75 | 75 | 75 |
| | int. | 90 | 90 | 90 | 90 | 90 |
| Max. Inlet Pressure, [bar] | cont. | 200 | 200 | 200 | 200 | 200 |
| | int. | 225 | 225 | 225 | 225 | 225 |
| | peak | 250 | 250 | 250 | 250 | 250 |
| Max. Return Pressure w/o Drain Line or Max. Pressure in Drain Line, [bar] | cont. | 0-100 | RPM | 100 | 100 | 100 |
| | cont. | 100-200 | RPM | 50 | 50 | 50 |
| | cont. | 200-300 | RPM | 20 | 20 | 20 |
| | int. | 0-max. | RPM | 100 | 100 | 100 |
| Max. Starting Pressure with Unloaded Shift, [bar] | | 5 | 5 | 5 | 5 | 5 |
| Min. Starting Torque [daNm] | at max press. drop cont. | 39 | 52 | 66 | 72 | 72 |
| | at max press. drop int. | 45 | 59 | 73 | 88 | 88 |
| Min. Speed, [RPM] | | 10 | 10 | 8 | 5 | 5 |
| Weight, [kg] | | 10,5 | 11 | 11,5 | 12,3 | 13 |

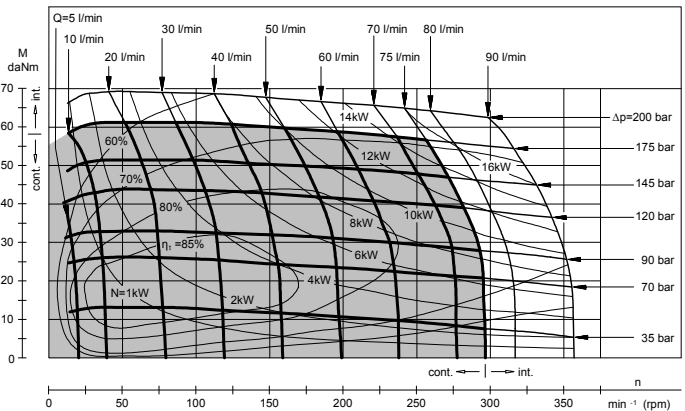
Intermittent operation: the permissible values may occur for max. 10% of every minute.
Peak load: the permissible values may occur for max. 1% of every minute.

FUNCTION DIAGRAMS

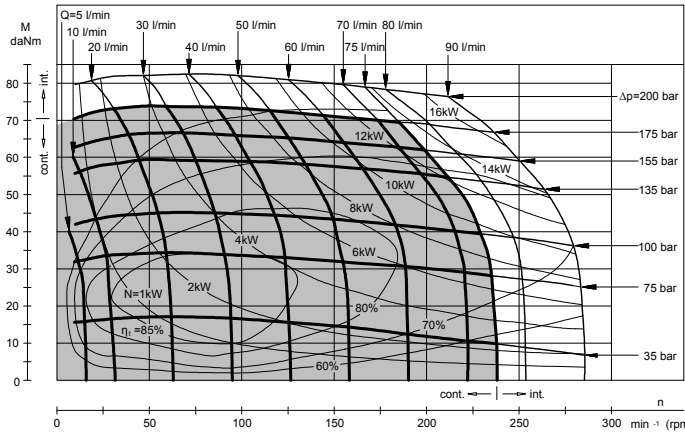
OH 200



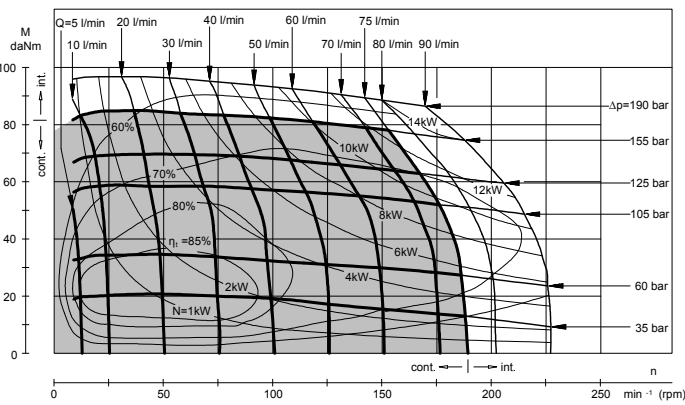
OH 250



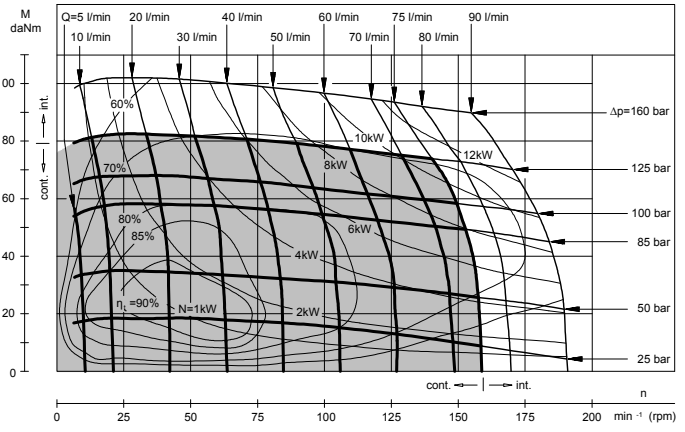
OH 315



OH 400



OH 500



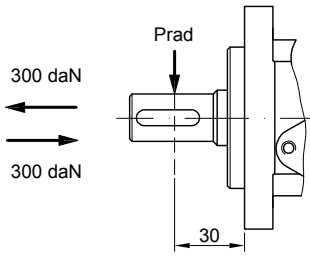
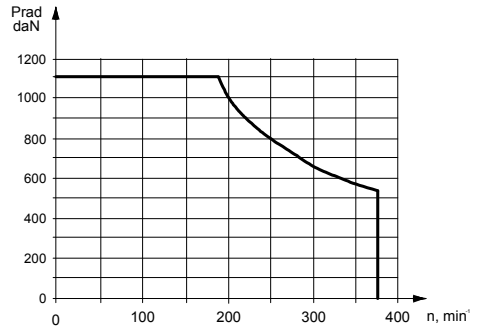
The function diagrams data was collected at back pressure 5 4 10 bar and oil with viscosity of 32 mm²/s at 50° C.

PERMISSIBLE SHAFT LOADS FOR OH MOTORS

The permissible radial shaft load P_{rad} depends on the speed (RPM) and distance (L) from the point of load to the mounting flange.

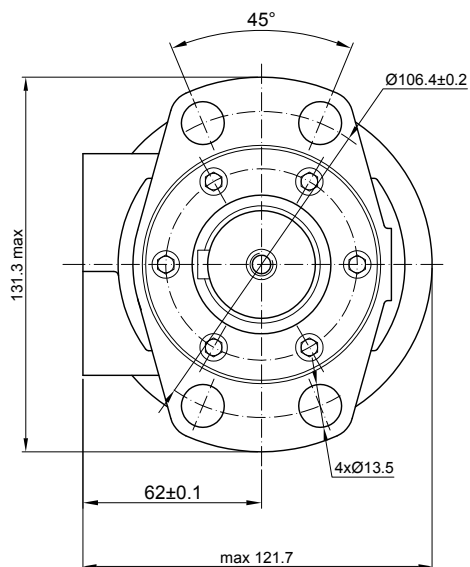
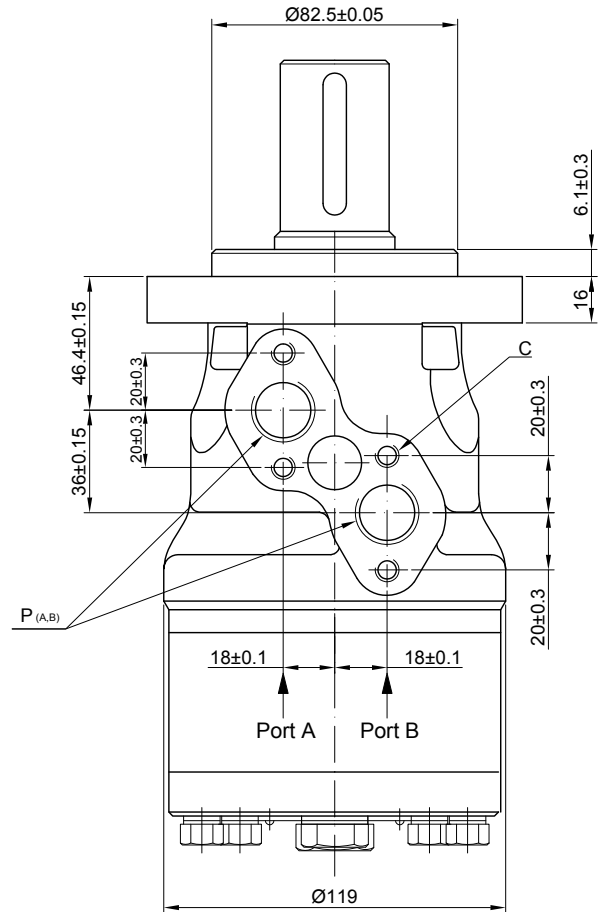
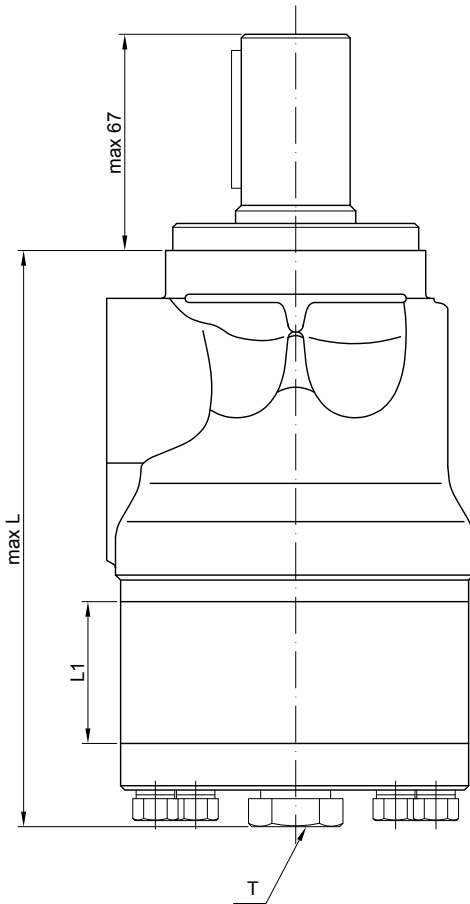
$$\text{Radial Shaft Load } P_{rad} = \frac{1100}{n} \times \frac{25000}{103.5+L}, \text{ daN}^*$$

*L < 60 mm; n ≥ 200 min⁻¹



DIMENSIONS

Magneto Mount (4 holes)



| Type | B , mm | L , mm |
|--------|--------|--------|
| OH 200 | 168 | 27 |
| OH 250 | 175 | 34 |
| OH 315 | 184 | 42 |
| OH 400 | 195 | 54 |
| OH 500 | 206 | 65 |

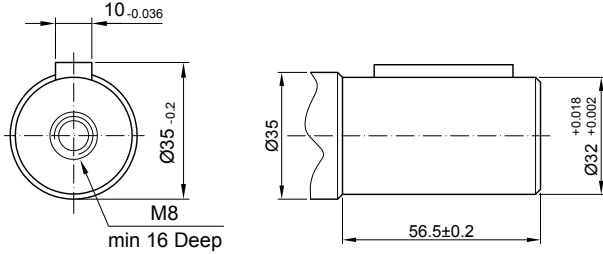
- C :4xM8 - 13 mm depth
- P_(A,B) :2xG1/2 or 2xM22x1,5 - 15 mm depth
- T :G1/4 or M14x1,5 -12 mm depth (plugged)

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

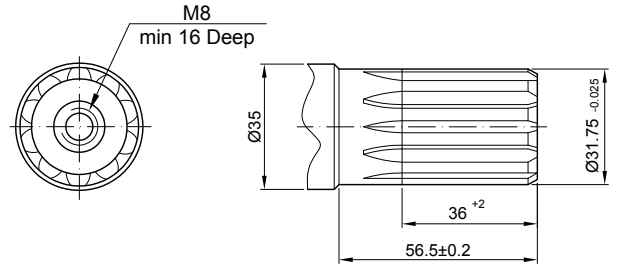
Reverse Rotation
Viewed from Shaft End
Port A Pressurized - **CCW**
Port B Pressurized - **CW**

SHAFT EXTENSIONS

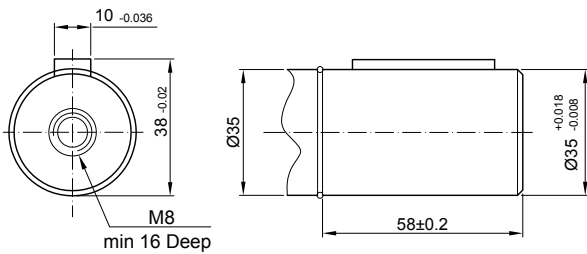
C Ø32 straight, Parallel key A10x8x45 DIN 6885
Max. Torque 77 daNm



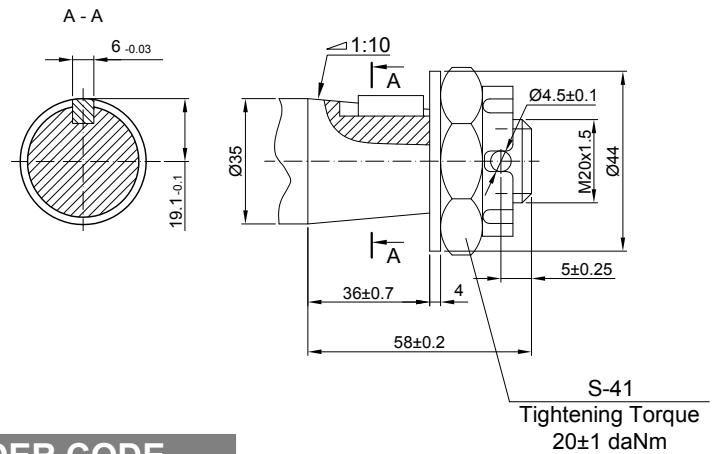
SH Ø1 1/4" splined 14T, DP 12/24 ANSI B92.1-1976
Max. Torque 95 daNm



CB Ø35 straight, Parallel key A10x8x45 DIN 6885
Max. Torque 95 daNm



K tapered 1:10, Parallel key B6x6x20 DIN 6885
Max. Torque 95 daNm



ORDER CODE

| | | | | | | | |
|-----------|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| OH | | | | | | | |

| | |
|-------------|--|
| 1 | Displacement code |
| 200 | 201,3 [cm³/rev] |
| 250 | 252,0 [cm³/rev] |
| 315 | 314,9 [cm³/rev] |
| 400 | 396,8 [cm³/rev] |
| 500 | 502,4 [cm³/rev] |
| 2 | Shaft Extensions |
| C | ø32 straight, Parallel key A10x8x45 DIN6885 |
| SH | ø1 1/4" splined 14T ANSI B92.1-1970 |
| CB | ø35 straight, Parallel key A10x8x45 DIN6885 |
| K | ø35 tapered 1:10, Parallel key B6x6x20 DIN6885 |
| 3 | Ports |
| omit | BSPP (ISO 228) |
| M | Metric (ISO 262) |

| | |
|-------------|---------------------------|
| 4 | Special Features |
| omit | none |
| LL | Low Leakage |
| LSV | Low Speed Valve |
| FR | Free Running |
| 5 | Rotation |
| omit | Standard Rotation |
| R | Reverse Rotation |
| 6 | Option (Paint) |
| omit | no paint |
| P | Painted Low Gloss Color |
| PC | Corrosion Protected Paint |
| 7 | Design Series |
| omit | Factory specified |