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General information:

The cylinders are manufactured up to and including piston $\varnothing 63$ in threaded design and from piston $\varnothing 80$ with flanged head and base/bottom for the operating conditions specified below. The piston rod is fitted as standard in ground and hard-chrome finish.

Special purpose designs of almost any kind can be considered. Intermediate sizes or piston sizes up to 500mm diameter are possible.

Cylinders can be fitted with vent valves upon request. Please indicate the desired location for the vent when ordering.

Please request our electronic product catalogue for CAD data or download it from www.heiss.de.

Technical specifications:

Operating pressure:

Maximum 350 bar, for higher operating pressures please contact us.

Operating fluids:

Hydraulic oil on the basis of mineral oils for example H, HL, HLP-oils per DIN 51524/51525. Other operating fluids like fire resisting fluids or water are possible upon request.

Operating temperature:

By default the cylinder is fitted with seals for a temperature range from -20°C to $+80^{\circ}\text{C}$. High temperature resistant seals can be fitted without changes in design.

Piston travel speed:

Maximum 0,5 m/s. Please contact us for higher piston travel speeds.

Cylinder stroke:

The maximum permissible stroke is dependent on the permissible buckling stress. For dimensioning help please use the load/buckling diagram with the simplified calculation formulas.

Position of connections:

Standard position for ports is radial in Pos.1 by default.

If another position or axial port on the bottom side is needed, please indicate in your order.

Cylinders with dampers have the adjustment screw positioned across the port in Pos.4 by default. You can also choose another position. If you need the port position rotated, for example by 90° in clockwise direction please indicate in your order: "hydraulic port in Pos.2".

Tolerances:

Tolerances for stroke and stroke dependent dimensions according to DIN ISO 2768 - g T1 (previously DIN 7168 - g)

Other tolerances according to DIN ISO 2768 - m T1 (previously DIN 7168 - m)

Attachment elements:

Swivel heads, rod clevis and rod end straight eyes as well as pivot brackets and pillow blocks for pivot pin attachments you can find on:

<http://www.heiss.de/de/zubehoerteile>

Position sensing:

Three ways for position sensing are available:

- Pressure resistant inductive proximity switches for end-of-stroke polling.
- Magnetic field sensors for additional sensing of in intermediate positions. (The cylinder length in creases. If required please contact us.)
- Position measuring systems with various output signals for position measuring.

Technical specifications about end position sensing and position encoders can be found on:

<https://www.heiss.de/de/baureihen-standardzylinder/sz-350>.