

Standard Cylinder Series

SZ100, SZ160, SZ250 with pressure resistant inductive proximity switch



General information cylinder:

The cylinders are manufactured for the below listed applications in threaded design with ground and hard-chrome plated cylinder rods.

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 cylinder:

Operating pressure:

Depending on cylinder series chosen, 100, 160 or 250bar. For higher operating pressures or hydraulic shocks, 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°C. High temperature resistant seals can be fitted without changes in design. However, the max. permissible operating temperature of the inductive proximity switches needs to be considered.

Piston travel speed:

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

Cylinder stroke:

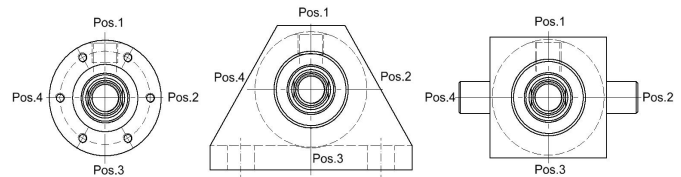
The maximum permissible stroke is dependent on the permissible buckling stress. For dimensioning help please use the load/buckling diagram with the simplified calculation formulas.

Position of connections:

The default positions of the ports, the proximity switches and the damper adjustment screws can be found in the overview of configurations. Should a different position be desired, please, indicate this when ordering.

Looking at the face of the piston rod end Pos. 1 is the position for connections with all configurations. Should the positions of ports, proximity switches or dampers be required elsewhere, please, indicate this when ordering.

Example in combination with various attachments:



Should the port position be rotated by 90° in clockwise direction for example, please, indicate with 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 can be found in our main catalogue under Accessories.