

# Standard Norm Cylinder DIN 24554



## General Information:

The cylinders are manufactured with threaded design with ground and hard-chrome plated piston rod for the below listed applications.

Special purpose designs of almost any configuration can be considered without problems. In this case dimensions may not adhere to the norm any longer. Smaller and larger design sizes are possible upon request.

The cylinder can be fitted with vent valves upon request as well. Please indicated the desired position when ordering.

CAD data is available from our electronic catalogue available on CD - please contact us for your copy – or online from the download area at [www.heiss.de](http://www.heiss.de).

## Technical Specifications:

### Operating pressure:

Maximum 160 bar, for higher 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 may be used 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.

### Piston travel speed:

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

### Cylinder stroke:

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

### Position of connections:

By default the ports are on face 1. The adjustment screw of the damper is located on face 3 except with configuration MS2, here it is on face 2.

In case the ports or damper adjustment need to be located elsewhere, please, indicate this with the order.

### Tolerances:

The stroke tolerance is between 0 to + 2 mm.  
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 according to DIN 24555 and pivot brackets according to DIN 24556 are listed in our main catalogue under Accessories.

### Position sensing:

Should end-of-stroke position sensing with inductive proximity sensors be required, please, request this with your order. In contrary to position measuring systems and polling with magnetic field sensors no extra lengths is required and dimensions keep adhering to DIN 24554.

Technical data of end-of-stroke sensing and position measuring systems can be found on pages of our standard catalogue.