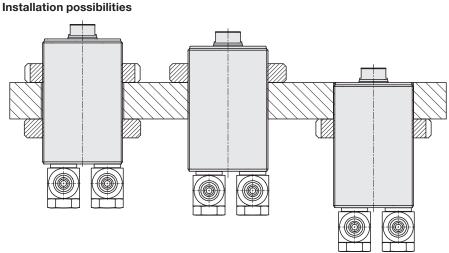


# **Threaded-Body Universal Cylinders**

single and double acting, max. operating pressure 500 bar





#### Description

The threaded-body universal cylinders are delivered with the same piston diameters and strokes as the well-proven block cylinders. Hydraulic connection is exclusively effected at the cylinder bottom by hydraulic tubes or hoses.

Sealing of the case-hardened piston rod is made by a tandem sealing with minimum leakage and a wiper.

## **Application**

The threaded-body universal cylinders can be used as clamping cylinders for workpiece clamping as well as for general motion tasks. For temperatures exceeding 100 °C a version with FKM seals is available. Fixing is made in cross holes with 2 lock nuts or in threaded holes with 1 lock nut. The lock nuts allow exact positioning of the cylinder in axial direction.

#### Important notes

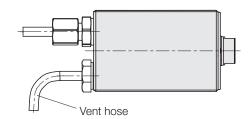
Operating conditions, tolerances and other data see data sheet A 0.100.

#### **Advantages**

- 6 piston diameters from 16 up to 63 mm
- 3 different strokes per size
- Sealing with very little leakage
- Alternatively single acting with spring return or double acting
- Connecting thread at the cylinder bottom
- Axial regulation due to external thread
- Lock nuts as per DIN 1804 can be used
- Space-saving fixing in fixture walls
- Swarf-protected tubing is possible
- Piston rod with internal thread for fixing of different contact bolts

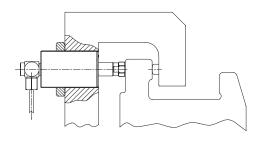
# Venting of the spring area for single-acting versions

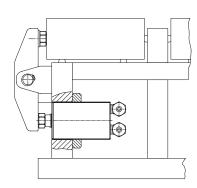
If there is a possibility that aggressive cutting lubricants and coolants penetrate through the sintered metal air filter into the cylinder's interior, a vent hose has to be connected and be placed in a protected position, see data sheet G 0.110.

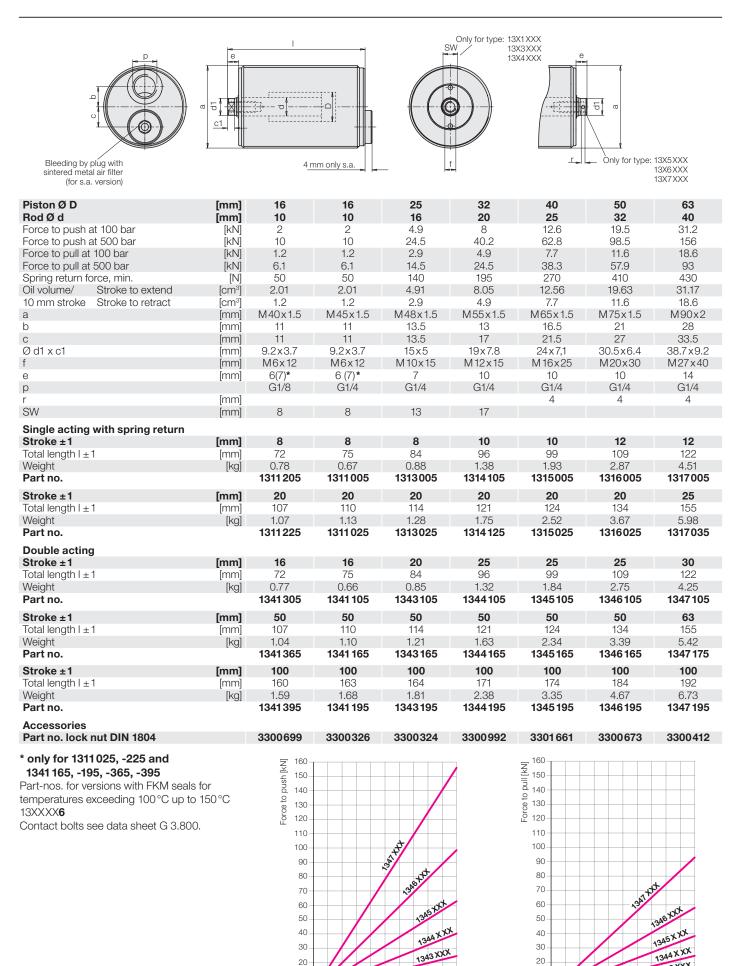


For this purpose the sintered metal air filter has to be exchanged by an insertion nipple fitting, or a corresponding male connector, see data sheet F 9.300.

### **Application examples**







2 Römheld GmbH

200

300

1341 XXX

500

400

Operating pressure [bar]

20

10

1343 XXX

1341 XXX

400

Operating pressure [bar]

300

20

100