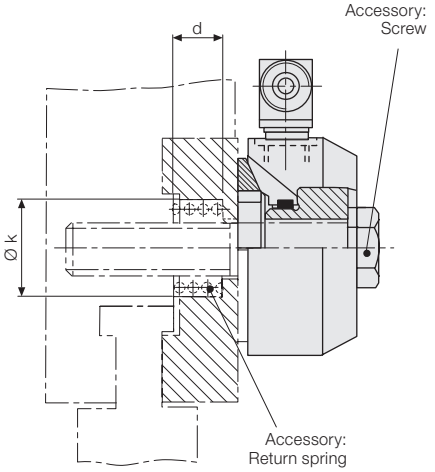
WZ 2.1330

Short-Stroke Hollow Piston Cylinders

single acting, with spring return
max. operating pressure 400 bar

Advantages

- Flat and compact design
- Jerkyless piston movement
- Stroke limitation designed for max. operating pressure
- Easy to retrofit
- Ideal force transmission



Description

The clamping element is particularly suitable for clamping mechanical clamping bars on die bending presses and folding presses.
The clamping force is generated by applying hydraulic pressure to the piston, and the piston is returned by a spring which is installed in the clamping bar. The piston is provided with a through hole and is hardened and ground. For an optimum adaptation to the clamping surface, the hollow piston cylinder can be equipped with a spherical disk.

Application

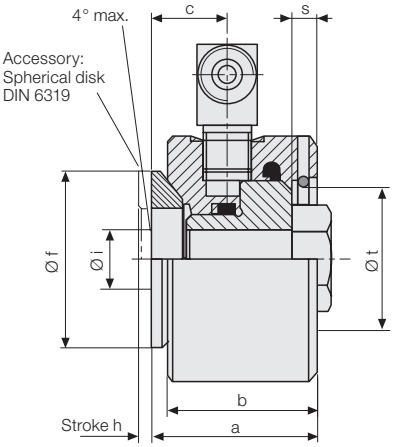
Hollow piston cylinders are used in connection with tie rods, screws and threaded rods, for clamping and locking dies on presses and machines.

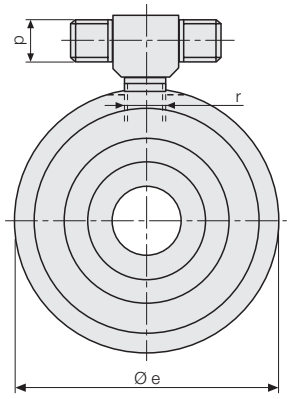
Technical data

Max. operating pressure 400 bar

Clamping force at 100 bar	**[kN]**	**5.5**	**13.5**
Clamping force at 400 bar	**[kN]**	**22**	**54**
For screw		M 12	M 16
Stroke h	[mm]	2.5	3.0
Spring return force	[kN]	0.27	0.67
Piston area	[cm²]	5.5	13.5
Oil volume per 1 mm stroke	[cm³]	0.6	1.4
a	[mm]	33	46
b	[mm]	30.6	41
c	[mm]	15	20
d	[mm]	12	18
Ø e	[mm]	50	80
Ø f	[mm]	36	56
Spherical disk		C 21	C 31
Ø i	[mm]	13	18
Ø k	[mm]	22	30
p		M 12 x 1.5	M 14 x 1.5
r		G 1/8	G 1/4
s	[mm]	5.2	8.6
Ø t	[mm]	30	48
Weight	[kg]	0.4	1.4
Part no.		**1830011**	**1830012**

Accessories			
Spherical disk	**Part no.**	**5700028**	**5700029**
Return spring	**Part no.**	**5700031**	**5700032**





Special versions on request

Hydraulic power units
see product group 7

Accessories
see product group 11