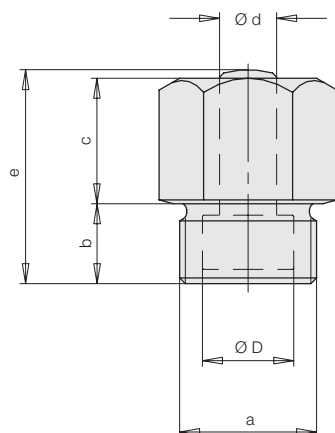
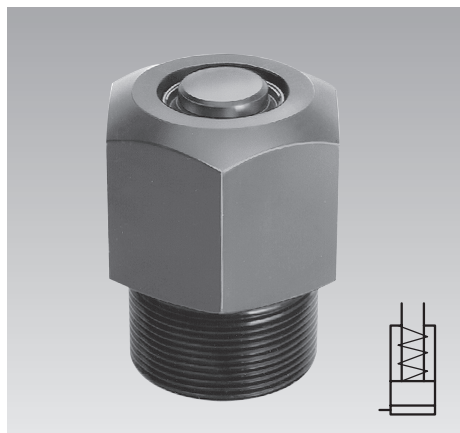




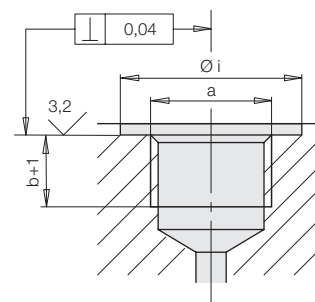
**Threaded-Body Cylinder**

single acting, spring return, with wiper, short version

max. operating pressure 500 bar



**Porting details at fixture**



Sealing is attained by a knife edge at cylinder collar, requiring the sealing surface to be square to hole axis and flat.

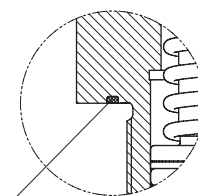
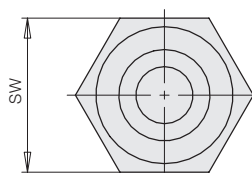
**Description**

These clamping cylinders may be threaded directly into tapped holes of the fixture.

These compact devices can be used to great advantage in fixtures where space is at a premium.

Hydraulic fluid is supplied through passages drilled into the fixture body, thus eliminating hydraulic hoses and threaded fittings.

The built-in spring returns the piston when hydraulic pressure is released.



For piston Ø D = 32 mm the knife edge will be replaced by a Kantseal joint

**Material**

Piston material: casehardening steel, hardened  
Cylinder body: free-cutting steel, black oxide

**Important notes**

**Threaded-body cylinders must not be subjected to a load in retracted position.**

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

Piston Ø D	[mm]	8	12	16	25	32
Rod Ø d	[mm]	5	8	10	16	20
Stroke ± 0.5	[mm]	4	4	6	12	16
Clamping force at 100 bar	[kN]	0.5	1.1	2.0	4.9	8
Clamping force at 500 bar	[kN]	2.5	5.6	10.0	24.5	40
Spring return force, min	[N]	25	32	56	151	183
Oil volume/10 mm stroke	[cm <sup>3</sup> ]	0.50	1.13	2.01	4.91	8.04
a	[mm]	M 16x1.5	M 20x1.5	M 24x1.5	M 36x1.5	M 42x1.5
b	[mm]	12	12	14	21	25
c	[mm]	14	14	21	33	40
e ± 0.5	[mm]	27	27	37	56	67
Ø i	[mm]	23	29	33	49	65
SW	[mm]	19	24	27	41	55
Max. seating torque	[Nm]	80	90	110	130	200
Weight	[kg]	0.065	0.10	0.17	0.40	0.90
<b>Part no.</b>		<b>1428001</b>	<b>1430101</b>	<b>1431001</b>	<b>1433001</b>	<b>1434001</b>

**Application example**

