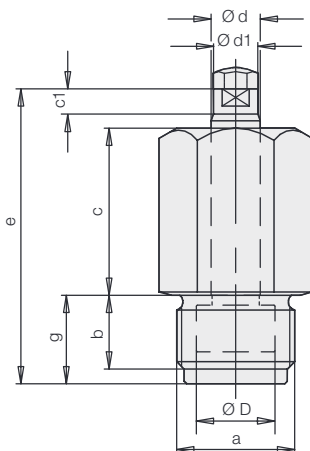
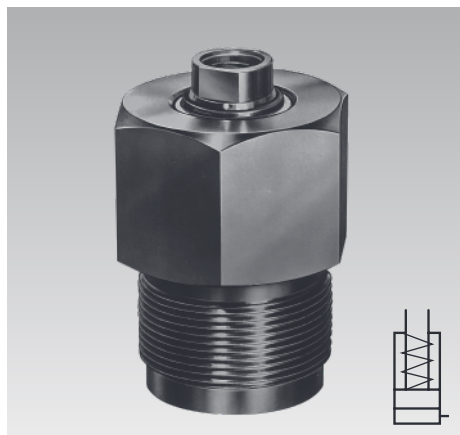
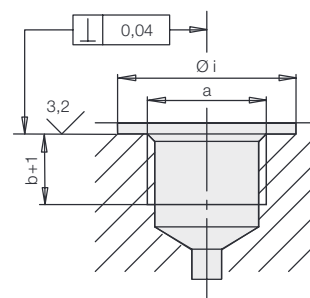


## Threaded-Body Cylinders

single acting, spring return, with wiper  
 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.

The internal threads at the piston rod end accept contact bolts.

Contact bolts see data sheet G 3.800.

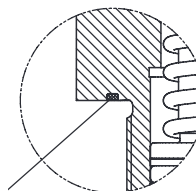
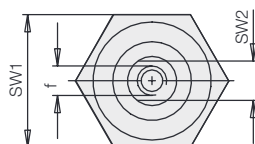
### Material

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.



For piston  $\text{Ø } D = 32 \text{ mm}$  the knife edge will be replaced by a Kantseal joint.

Piston $\text{Ø } D$	[mm]	12	16	25	32	
Rod $\text{Ø } d$	[mm]	8	10	16	20	
Stroke $\pm 0.5$	[mm]	8	10	10	16	
Clamping force at	100 bar	[kN]	1.1	2.0	4.9	8
	500 bar	[kN]	5.6	10.0	24.5	40
Spring return force, min	[N]	32	56	151	183	
Oil volume/10 mm stroke	[cm <sup>3</sup> ]	1.13	2.01	4.91	8.04	
a	[mm]	M20x1.5	M24x1.5	M36x1.5	M42x1.5	
b	[mm]	12	15	20	25	
c	[mm]	25	34	35	40	
$\text{Ø } d1 \times c1$	[mm]	7.7x4	9.2x3.7	15x5	19x7.8	
e $\pm 0.5$	[mm]	46	58	66	75	
f x depth of thread	[mm]	M5x10	M6x12	M10x15	M12x15	
g	[mm]	15	18	23	25	
$\text{Ø } i$	[mm]	29	33	49	65	
SW 1	[mm]	24	27	41	55	
SW 2	[mm]	7	8	13	17	
Max. seating torque	[Nm]	90	110	130	200	
Weight	[kg]	0.16	0.25	0.65	0.92	
<b>Part no.</b>		<b>1450000</b>	<b>1451000</b>	<b>1453000</b>	<b>1454000</b>	

### Application example

