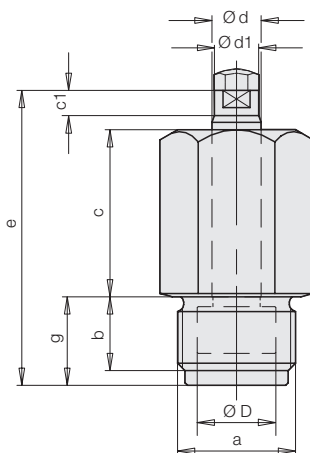
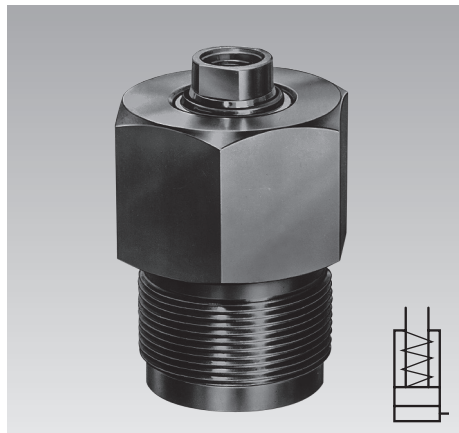


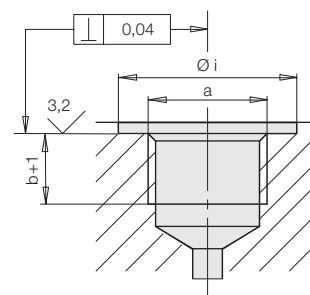


## Threaded-Body Cylinders

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.

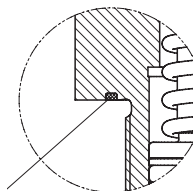
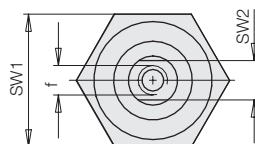
### Material

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

Piston Ø D	[mm]	12	16	25	32
Rod Ø d	[mm]	8	10	16	20
Stroke ±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
Ø d1 x c1	[mm]	7.7 x 4	9.2 x 3.7	15 x 5	19 x 7.8
e ±0.5	[mm]	46	58	66	75
f x depth of thread	[mm]	M5x10	M6x12	M10x15	M12x15
g	[mm]	15	18	23	25
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
Part no.		1450000	1451000	1453000	1454000

### Application example

