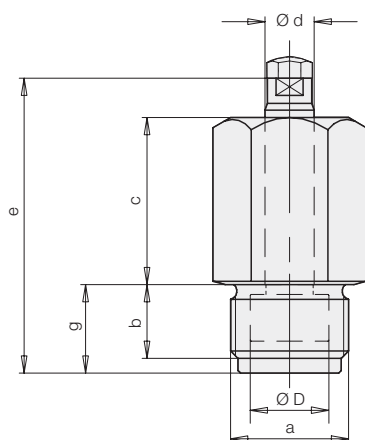
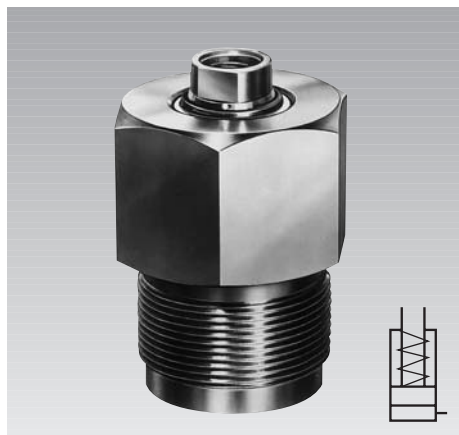
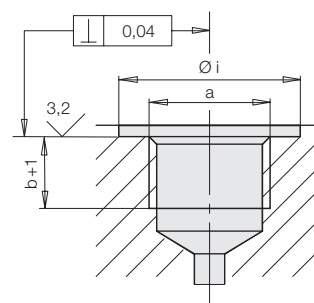


Threaded-Body Cylinder

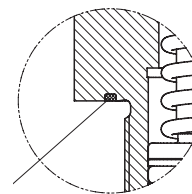
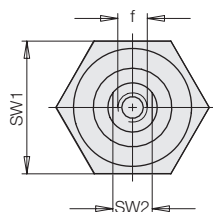
single acting, spring return, with wiper
 max. operating pressure 500 bar



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.



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

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.

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
Clamping force at 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 ³]	1.13	2.01	4.91	8.04
a	[mm]	M 20x1.5	M 24x1.5	M 36x1.5	M 42x1.5
b	[mm]	12	15	20	25
c	[mm]	25	34	35	40
e ± 0.5	[mm]	46	58	66	75
f x depth of thread	[mm]	M 5 x 10	M 6 x 12	M 10 x 15	M 12x15
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
Masse	[kg]	0.16	0.25	0.65	0.92
Part-no.		1450-000	1451-000	1453-000	1454-000

Application example

