

UNIVERSAL CYLINDERS

with spring reset, single-acting, pmax. 500 (400) bar

Description:

The universal cylinder is suitable to process changing work pieces with variable sizes in one clamping fixture. They are equipped with support ring and plug-in disk. Thus the cylinder can be directly installed into the fixture body. The design makes it possible to adjust the built-in depth in 10 mm increments. The universal cylinder with piston \varnothing 50 mm has a G1/8 ventilation screw.

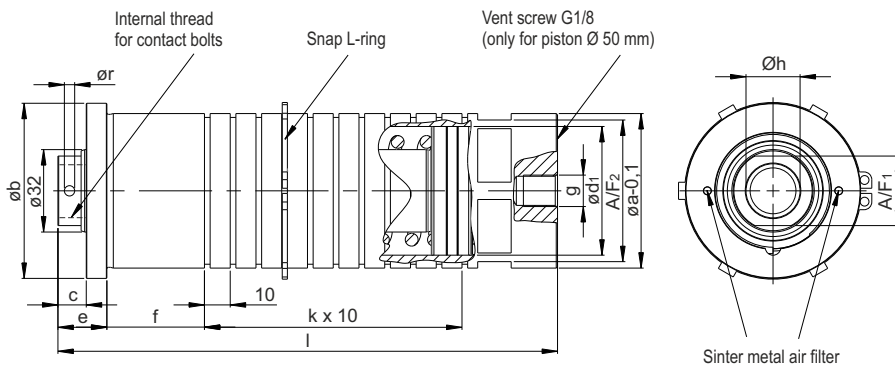
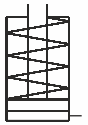
Important notice:

The cylinder must be protected from ingress of any coolants or cutting fluids into the spring chamber. The arrangement of the cylinders must be realized in a way that the ingress of liquids through the sintered metal air filter is prevented. Alternatively, the protection can be done by appropriate protective measures. Seal kits including fasteners are available as spare parts.



Webcode: 022002

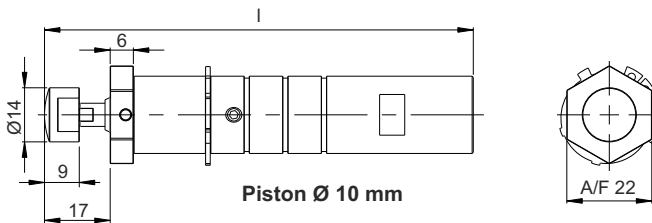
We also design and manufacture special designs



The universal cylinder with piston \varnothing 10 mm will be supplied including the contact bolt.

Contact bolts for other cylinder variations on data sheet 1000-1.

Order number: 7004-036 (spare part)



Technical data:

d1 Piston \varnothing	[mm]	10	25	40	50	
d2 Piston rod \varnothing	[mm]	6	16	25	32	
Stroke ± 1	[mm]	20	20	22	50	
Clamping force at 100 bar	[kN]	0,7	4,9	12,6	19,5	
Clamping force at pmax.	[kN]	3,7	24,5	62,8	78	
Max. op. pressure pmax.	[bar]	500	500	500	400	
Max. spring reset	[N]	28	140	270	390	
Oil capacity/10 mm Stroke	[cm ³]	0,78	4,91	12,56	19,63	
a \varnothing	[mm]	20	35	60	60	
b	[mm]	—	40	68	68	
c	[mm]	—	9	11	11	
e	[mm]	—	16	19	19	
f	[mm]	18,7	28,4	37,9	37,9	
g		G1/4	G1/4	G1/4	G1/4	
h x thread depth	[mm]	M4x10	M10x15	M16x25	M20x30	
k		4x	5x	5x	11x	
l $\pm 0,5$	[mm]	111	123	138	194	
r	[mm]	—	—	4	4	
A/F 1	[mm]	—	13	—	—	
A/F 2	[mm]	17	32	55	55	
Weight approx.	[kg]	0,4	1,1	2,3	3,2	
Order numbers:		UZY-EW...	-010-020-003	-025-020-003	-040-022-003	-050-050-003
Seal kit (spare part):		DS-UZY-EW...	-010-020-003	-025-020-003	-040-022-003	-050-050-003

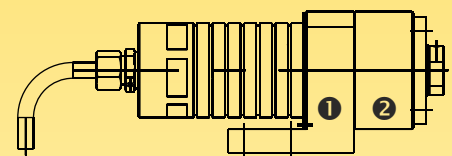
Materials:

- ⊗ Housing: machining steel, burnished
- ⊗ Piston: hardened steel
- ⊗ Piston seal: NBR

Advantages:

- ⊗ Suitable for changing workpiece sizes
- ⊗ Any installation position possible
- ⊗ Adjustable build-in depth
- ⊗ Easy to replace
- ⊗ Protecting metal wiper

Application example:



- ① Cylinder fixture
 - ② Spacer ring
- (not included in scope of supply)

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