

LOW-BLOCK CLAMPING CYLINDERS

hydraulic, with spring reset, single-acting, pmax. 500 bar

Description:

Low-block clamping cylinders are used, if the clamping force has to be applied to the workpiece laterally.

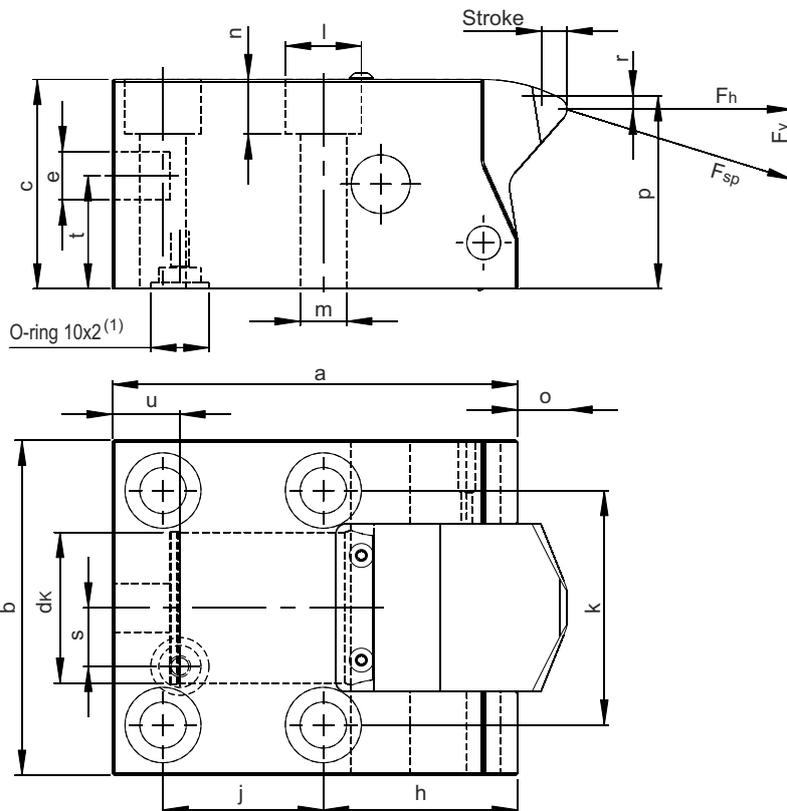
Regarding the force application, the design requires horizontal and vertical components of force with stroke-dependended magnitudes.

The magnitude of the vertical (F_v) component of force cannot exceed approx. 25% of the clamping force (F_{sp}) magnitude. This force presses the workpiece against the support.

The horizontal (F_h) component of force magnitude drops to a minimum of 95% of the initial force magnitude, depending on the stroke.

The pressurised oil can be supplied either via a G1/4 threaded port or via manifold connection with O-ring.

The clamping piston has an internal stroke limiter. The piston and the pressure piece are returned to their home position after the pressure has been released via a spring. The cylinders must be protected against ingress of coolants and cutting lubricants



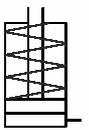
dk Piston Ø:	[mm]	16	25	36
Stroke	[mm]	8	10	10
Clamping force at 100 bar	[kN]	1,7	4	8
Clamping force at 500 bar	[kN]	8,5	20	40
Oil requ./10 mm stroke	[cm ³]	2	4,9	10,2
a	[mm]	68	90	96
b	[mm]	50	60	80
c	[mm]	32	40	50
e		G1/4	G1/4	G1/4
h	[mm]	32	42	46
j	[mm]	27	38	38
k	[mm]	32	40	56
l	[mm]	13,5	15	18
m	[mm]	8,5	9	11
n	[mm]	8,5	9	11
o	[mm]	2	-	2
p	[mm]	31	39	49
r	[mm]	4	4	4
s	[mm]	-	-	14
t	[mm]	19	23	27
u	[mm]	13	14	16
Weight	[kg]	0,9	1,15	2,1
Order numbers:		TBZY-016-001	TBZY-025-001	TBZY-36-001

⁽¹⁾ Scope of supply includes the O-ring.



Webcode: 023001

We also design and manufacture special designs



Connections:

- ⊗ Threaded port G1/4
- ⊗ Manifold connection with O-ring

Materials:

- ⊗ Housing: burnished steel
- ⊗ Piston: case-hardened steel
- ⊗ Pressure piece: case-hardened steel

Spare parts:

- ⊗ **O-ring 10x2** **Order numbers:**
all piston Ø..... **6010-003**
- ⊗ **Seal ring**
all piston Ø..... **6005-004**
- ⊗ **Torsion springs**
piston Ø 16, 25..... **2005-001**
piston Ø 36..... **2008-010**
- ⊗ **Seal kits**
piston Ø 16..... **DS-TBZY-016**
piston Ø 25..... **DS-TBZY-025**
piston Ø 36..... **DS-TBZY-036**

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