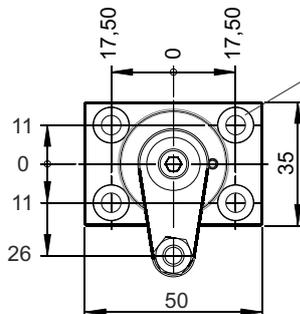
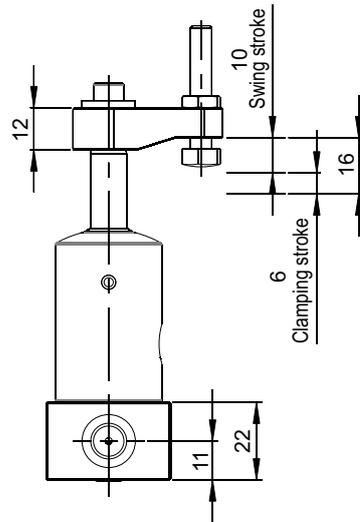
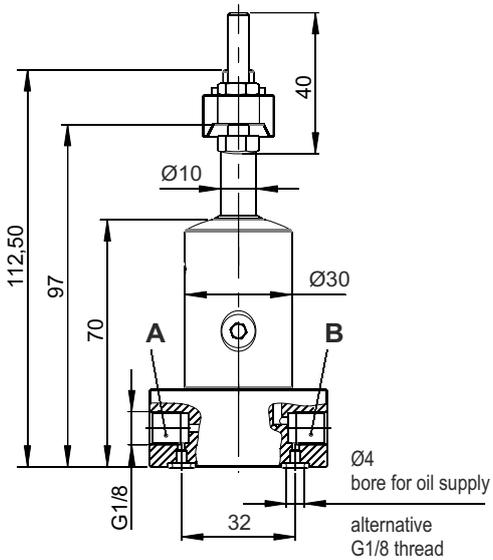


SWING CLAMP CYLINDERS

compact, single-acting/double-acting, pmax. 350 bar



4x throughbore with countersink for cap screw M5 DIN512

Accessoirs:

Clamp arms and contact bolts are not included in scope of supply. They're sold separately as accessories.

For information about standard clamp arms and for house production of special clamp arms, see page 2.

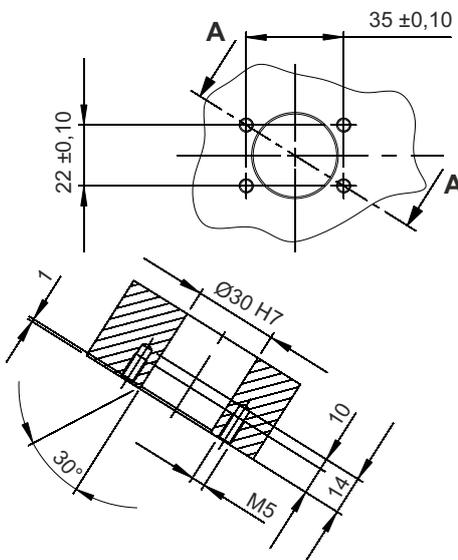
Contact bolts: see data sheet 1000-1 (Webcode: 100001)

Mounting and oil connection:

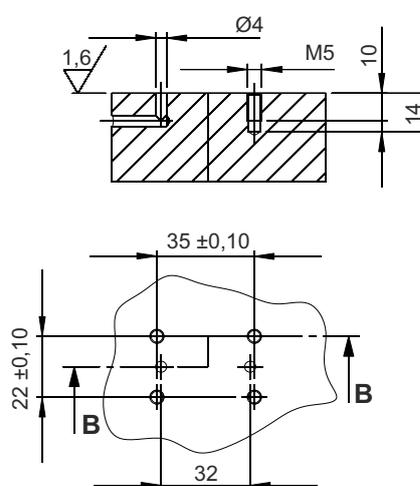
G1/8 threaded port:

The swing clamp cylinder can be fastend according to this illustration. Or it can be installed through a borehole.

Manifold connection with O-ring:



A-A
swing clamp cylinder bolted lower side, G1/8 threaded port for hydraulic connection clamping and unclamping:

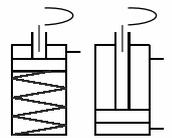


B-B
lower flange



Webcode: 024001

We also design and manufacture special designs



Description:

Swing clamp cylinders operate single-acting with spring reset or double-acting hydraulically. The hydraulic oil supply can be connected by G1/8 threaded port or by manifold connection with O-ring.

For any risk of exceeding the permitted volume flow a throttle check valve must be interposed into the oil supply line (see data sheet 700-15). Counter-hold the clamp arm when tightening or loosening the counter nut in order to prevent torque transfer to the piston rod and to avoid damage to the ball guide.

The clamping motion is initiated with a superimposed swing and stroke movement. After that, a linear clamping stroke follows.

Cylinders with swing angles 0°, 45°, 60°, 90° are available as standard. The clamping force is depending from the clamp arm length.

Except for the standard clamp arm also special clamp arms can be assembled. The maximum operating pressure of 350 bar only applies to clamp arms with a maximum length of 26 mm.

The safety instructions for swing clamp cylinders in our catalogue or on our website and the current accident prevention regulations must be considered.



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Swing clamp cylinders, compact

Technical data:

Piston Ø	[mm]	14
Rod Ø	[mm]	10
Oil requirement/stroke	[cm³]	1,2
Max. volume flow	[cm³]	2,5
Swing stroke	[mm]	10
Clamping stroke	[mm]	6
Min. operating pressure	[bar]	25
Max. operating pressure	[bar]	350
Clamping force at 100 bar ⁽¹⁾	[kN]	0,5
Clamping force at 350 bar ⁽¹⁾	[kN]	2,2

⁽¹⁾ Value only valid with single clamp arm L = 26 mm, (pictures on page 1) Order no. SPE-126-001

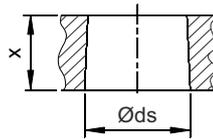
Clamp arms:

For these swing clamp cylinders, standard clamp arms are available as accessories. All necessary information about this can be found on the data sheet «*Swing Clamp Cylinders - Clamp Arms*» in the catalogue or at www.hydrokomp.de.

Compatible clamp arms: **A B**

Special clamp arms are available on request.

Dimensions for house production of clamp arms:



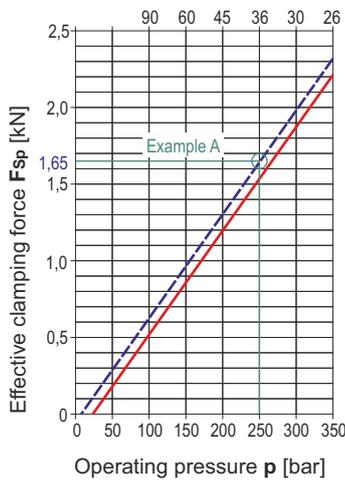
Piston Ø	[mm]	14
Ø ds	[mm]	10
x	[mm]	12
Taper ratio		1:10



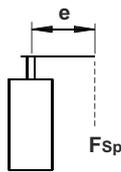
Taper

Effective clamping force F_{Sp} depending from operating pressure p :

Max. clamp arm length e [mm] only relevant for clamp arms of this type.



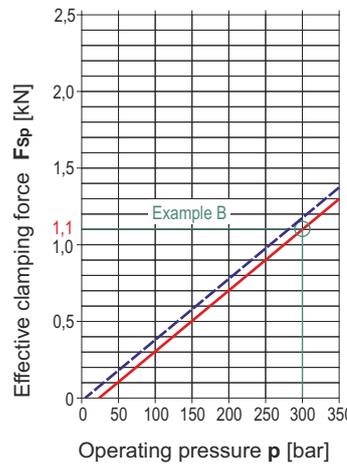
A Single clamp arm:



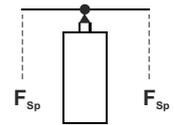
— double-acting
— single-acting

Example A:

- double-acting cylinder
- present operating pressure $p = 250$ bar
- clamp arm length $e = 36$ mm
- resulting clamping force $F_{Sp} \sim 1,65$ kN



B Double clamp arm:



— double-acting
— single-acting

Example B:

- single-acting cylinder
- present operating pressure $p = 300$ bar
- resulting clamping force $F_{Sp} \sim 1,10$ kN

The retraction force of the spring in single-acting swing clamp cylinders reduces the clamping force slightly. To achieve the same clamping force as with double-acting cylinders, the operating pressure must be increased slightly.

Order number key:

Example **SSZY** - **RE90** - **B1406** - **K00** - **001**

1 Swing motion: right turning = **R**, left turning = **L**, neutral 0° = **N**
 Operating method: single-acting = **E**, double-acting = **D**
 Swing angle [degree]: standard = **0, 45, 60, 90**

2 Housing design: lower flange = **B**
 Piston Ø [mm]: standard **14**
 Clamping stroke [mm]: standard **06**

3 Clamp arm retainer: taper = **K**
 Overload protection: without = **0**
 Position control: without = **0**

4 Connection type: G1/8 threaded port = **001**, manifold with O-ring = **002**

For additional help in model selection, see data sheet «*Swing Clamp Cylinders - Selection Guide*».