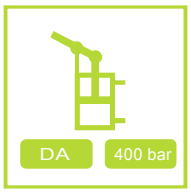
CLS002

01-2018

Sliding Joint Clamp

Double acting, max. 400 bar working pressure



Advantages:

- High clamping force
- Solid Design
- For high vibrations or lateral force absorption
- No interference contour while loading the parts
- Oil connection via thread- or manifold connection

Description

Recommendations for use:

These clamping elements are available in 2 - externally identical versions.

For the type **ISJC-002**, lever and housing are almost free of play in the axial direction of the lever pivot point.
This allows the elements to **absorb high lateral forces**.

In type **ISJC-004**, the lever and housing are completely decoupled from each other.
Here, the lever is held in its middle position by the integrated disc springs.
This version is suitable **for high vibrations**.

The Sliding Joint Clamping cylinder has a high clamping force with a relatively small footprint. For this reason, this solution is suitable for machines with high performance and difficult space conditions.

Above all, the clamping cylinder can also be used in the mining and foundry industry.
Due to the design of the guides, seals and scrapers, a significantly longer service life is to be achieved here than with comparable other clamping solutions.

When installing the sliding joint clamping cylinder, the flange surface should be adjusted to the height of the workpiece.

The cylinder is suitable for any mounting position.

We recommend hydraulic fluids as pressure medium DIN 51524 (HL, HLP).

Sliding joint- and lever clamping cylinders can generate high forces. Workpieces and devices must be designed for such loads.

There is a risk of crushing during operation.
The accident prevention regulations must therefore be adhered to.

General Notes:

Due to the almost symmetrical lever construction, the piston force is transmitted almost 1:1, depending on the clamping position.
When relaxing, the clamping lever is reset so far that a free insertion of the work pieces is possible.

Under the „recommendations of use“ the two application focuses of the lever clamps are described in more detail.
There is one type for high lateral force and a version for high vibrations.

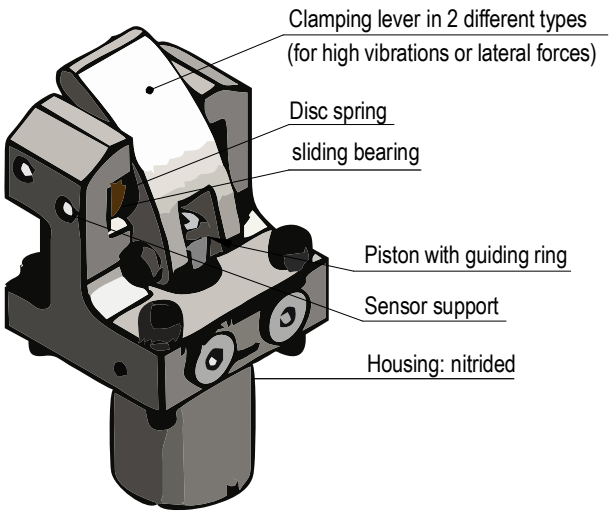
The sliding surfaces are hardened and the moving components are guided by sliding elements.

The position of the clamping lever can be queried by optionally available inductive sensors.

The clamping lever is case hardened and the surface of the housing is nitrided.

The cylinder is mounted to the flange surface into the counter body and the pressure oil supply can be connected via the back G1/4 threaded connections or via the - in the flange surface - integrated drilled channels.

Likewise, the sliding joint clamping cylinder can be installed in a finished housing.



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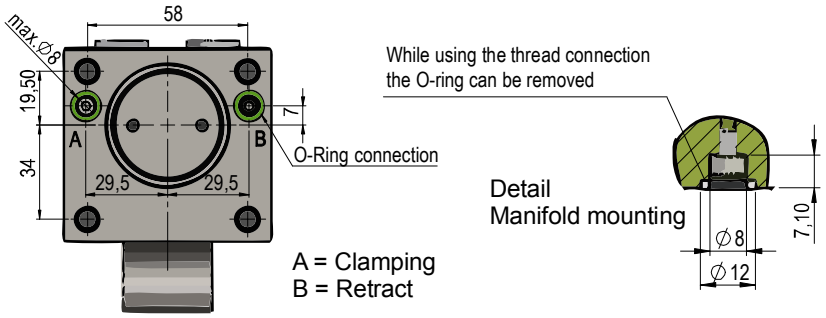
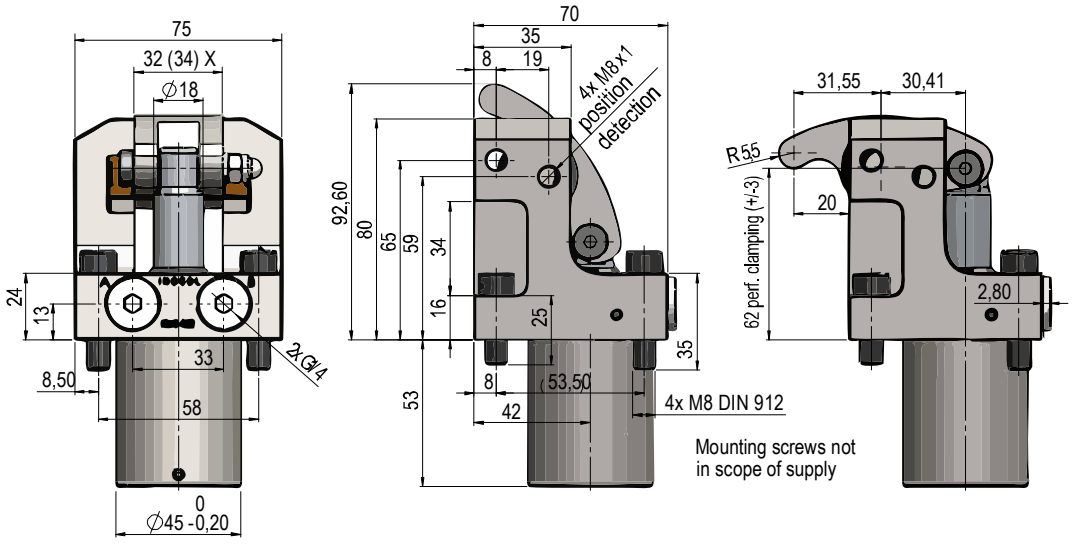
Details





Technical Data

Working pressure p min	25 bar
Working pressure p max	400 bar
Working temperature t max	-20° to 80°C
Weight m	2,4 kg
Clamping force at 400 bar F max	18,8 kN
Clamping force at 200 bar F	9,4 kN

Part number

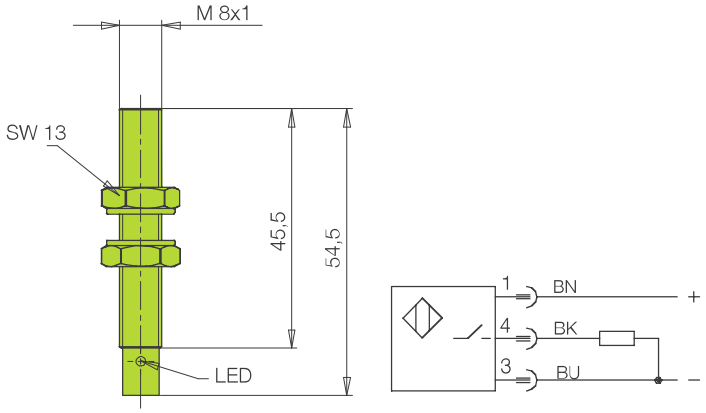
ISJC-002

Here, the lever width and the internal dimension of the housing is **32** mm (X), with play-free guidance.

ISJC-004

Here, the lever width is **32** mm and the inside dimension of the housing is **34** mm (X).
As a result, the wear at high vibrations is greatly reduced between the housing and the lever. The axial movement is compensated by disc springs.

Attachments



Inductive sensor

General characteristics

Type of installation		flush mounting
Rated operating distance Sn	[mm]	1.5
Secured operating distance Sa	[mm]	0...1.2
Repeatability	[%]	≤ 5
Hysteresis	[%]	≤ 15
Environmental temperature	[°C]	-25...+70
Degree of contamination		3
Stand-by delay	[ms]	≤ 10

Mechanical characteristics

Shape in mm	[mm]	M 8
Material of the body		stainless steel
Material of sensing face		PBTP
Code class	[IP]	IP 67
Connection		plug S49

Electrical characteristics

Voltage		DC
Wiring		3 wires
Switching function		interlock
Output signal		pnp
Rated operating voltage	[V]	24 DC
Rated operating current	[mA]	200
Short circuit protection		yes
Protection against reverse battery		yes
Part-no.		**7300001**

Accessories for inductive sensor

Connecting cable with right angle plug

Voltage	10 – 30 V DC
Protection as per DIN 40050	IP 67
Environmental temperature	–25°C up to +90°C
Plug connection	M8 plug
LED	Voltage (green) Function display (yellow)
Cable, length of cable	PIR, 5 m
Output, interlock	**pnp**
Part-no.	**7300002**