

**FOR
HEAVY
DUTY
USE**

Advantages:

- ✓ High clamping force
- ✓ Solid design
- ✓ For high vibrations and abrasively media suitable
- ✓ No interference contour while loading the parts
- ✓ Oil connection via thread- or manifold connection
- ✓ Withstands large dirt

Description:

Due to the symmetrical lever construction, depending on the clamping position, the piston force is nearly 1:1 transferred. While declamping the clamping lever is as far back that a free insertion of the parts is possible.

In the relieved state the clamping lever is moved against a mechanical stop, so that even at high vibrations no loose parts of the assembly may damage the adjacent parts.

Means: With a mounted stop, the piston never moves into its basic position.

Likewise, all pivot points are designed in a way that there is no direct contact to the axially adjacent parts. This reduces the wear under vibration and abrasive media enormously.

Unlike to several competitors' products, the sliding surfaces are hardened and not the sliding components.

The position of the clamping lever can be monitored by optional inductive sensors.

The clamping lever is hardened and convex at the clamping point. Here we waived conscious for a separate pressure piece (clamping security and no damages/losses).

The surface of the housing is nitrided.

The cylinder has to be fitted with the flange surface in into the counter body and the pressure oil supply can be realized with the rear G1/4 threads or via the integrated drilled channels with manifold connection.

Likewise the sliding joint cylinder can be installed in a custom-built housing.

Recommendations for use:

The Slide Joint Clamp cylinder has, compared to other solutions, a high clamping force with a relatively low base. For this reason, this solution is suitable for machines with high power and close quarters.

In particular, the clamping cylinder can also be used in the field of mining- and casting operations. Because of the design of the guides, seals and wipers here is a significantly longer service life reachable, as with comparable other clamping solutions.

While installing the rotary lever clamping cylinder, the flange should be adapted to the height of the workpiece.

For mounting on the device, housing blocks of steel can be manufactured / offered.

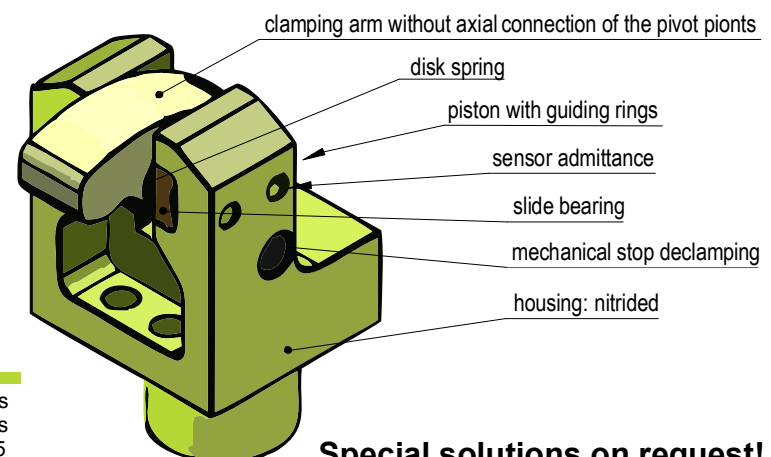
The cylinder is suitable for different installation positions.

We recommend as a pressure medium hydraulic oils acc. DIN 51524 (HL, HLP).

Slide joint and lever clamp cylinder can generate high forces. Workpieces and fixtures must be designed for such loads.

During operation consists a danger of crushing. Therefore the accident prevention regulations must be strictly adhered to.

The rotary lever clamping cylinder must be checked regularly for contamination and cleaned, if necessary.



Contact

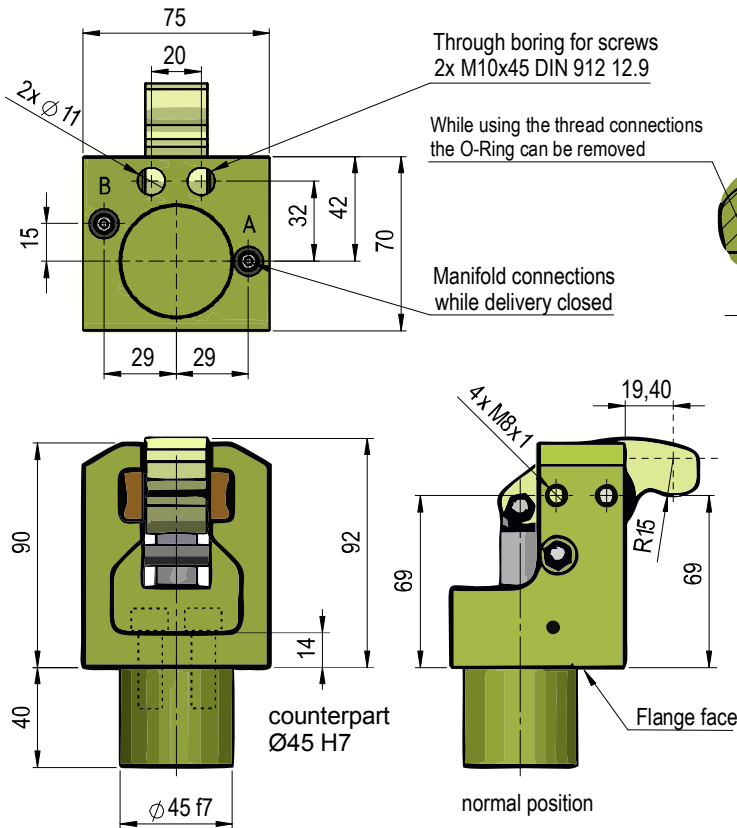
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Special solutions on request!

Details

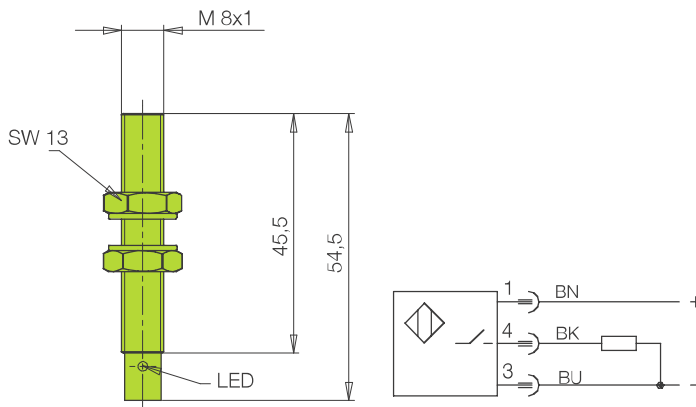
Technical Data



Working pressure p min	50 bar
Working pressure p max	400 bar
Working temperature t max	-20° to 60°C
Weight m	2,6 kg
Clamping force at 400 bar F max	21,5 kN
Clamping force at 200 bar F	10,2 kN

A = Clamping
B = Declamping

Attachments



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

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