





B 1.8242

# **Slide Pivot Clamp**

compact version, with optional position monitoring, double acting, max. operating pressure 350 bar



In the case of the slide pivot clamp the piston

force is deviated by 180° by the clamping lever

and is available as clamping force with virtually

no loss of efficiency. Kinematics of the slide

pivot clamp allow sliding back of the clamping

lever during unclamping for unimpeded inser-

Position of the clamping lever can be monito-

red by inductive proximity switches or pneu-

The pivot slide clamp can be installed im-

mersed up to the flange surface in a hole of

the fixture body or via intermediate plates which are available as an accessory. For both solutions there is the possibility to supply the hydraulic oil not only by fitting connection but also via drilled channels in the fixture body.

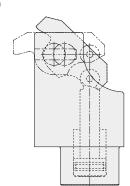
## Advantages

- High clamping force, up to 10 kN
- Minimum dimensions
- High efficiency
- Increased rigidity allows compensation of transverse forces at the clamping point
- Unimpeded loading and unloading of the fixture
- Inductive or pneumatic monitoring of the clamping lever available as accessory
- Monitoring of the unclamping position and the usable clamping range is possible
- Clamping lever can be swivelled into small recesses
- Partially immersed mounting of the body
- Oil supply alternatively via fittings or drilled channels
- Long life due to metallic wiper to protect the piston rod

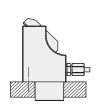


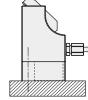
The slide pivot clamp has in relation to its base a very high clamping force. The clamps are particularly suitable for clamping tasks on machines with high performance and reduced space availability on the fixture. The work-pieces can be inserted from above without any impediments. A clamping recess a little bit wider than the clamping lever is sufficient as clamping surface. This characteristic indicates their use for clamping of aluminium parts, which are very sensitive against deformation, with correspondingly reduced oil pressure.

## **Function**

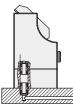


#### Installation possibilities









#### Important notes!

Description

matic iets.

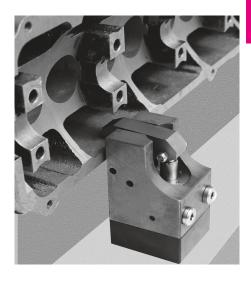
tion of the workpieces.

The clamping lever must not be impeded during swivelling movement.

The slots of the sliding pad have to be checked from time to time with regard to contamination by swarf and cleaned, if required.

Operating conditions, tolerances and other data see data sheet A 0.100.





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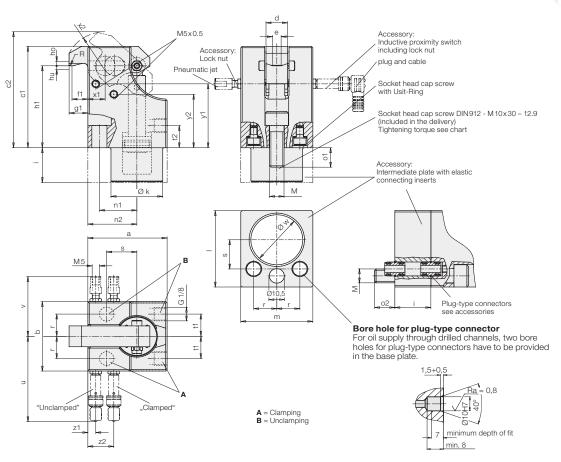
Subject to modifications



## Dimensions and accessories

Articles and prices on request





| Clamping force F <sub>Sp</sub> at 350 bar | [kN]                 | 10        |
|---|----------------------|-----------|
| Oil volume clamping                       | [cm <sup>3</sup> ]   | 6         |
| Oil volume unclamping                     | [cm <sup>3</sup> ]   | 4         |
| Max. flow rate                            | [cm <sup>3</sup> /s] | 10        |
| a   | [mm]                 | 55        |
| b   | [mm]                 | 50        |
| c1 / c2                                   | [mm]                 | 73 / 83.5 |
| d   | [mm]                 | 15        |
| е   | [mm]                 | 6         |
| f1  | [mm]                 | 11        |
| g1  | [mm]                 | 13        |
| h1  | [mm]                 | 59        |
| ho / hu, upper / lower clamping point     | [mm]                 | 3.0 / 2.5 |
| i   | [mm]                 | 25        |
| Øk  | [mm]                 | 35.9      |
| 1   | [mm]                 | 55        |
| m   | [mm]                 | 50        |
| M, socket head cap screw DIN912 /         |                      |           |
| seating torque                            | [Nm]                 | M10 / 87  |
| n1 / n2                                   | [mm]                 | 26 / 34   |
| 01 / 02                                   | [mm]                 | 14 / 14   |
| $r \pm 0.02$                              | [mm]                 | 16        |
| R   | [mm]                 | 5         |
| $s \pm 0.02$                              | [mm]                 | 21        |
| t1 / t2                                   | [mm]                 | 16 / 16   |
| u, approx.                                | [mm]                 | 62        |
| v, approx.                                | [mm]                 | 43        |
| Ø w +0.1, mounting hole                   | [mm]                 | 36        |
| x1 / x2                                   | [mm]                 | 12 / 28   |
| y1 / y2                                   | [mm]                 | 46 / 38.5 |
| z1 / z2                                   | [mm]                 | 5.5 / 18  |
| Part no.                                  |                      | 1824 040  |
|   |                      |           |

For manifold mounting, remove socket head cap screws with USIT rings and 2 screw-in plugs G 1/8 in the body.

| Accessory  | Part no. |
|--|----------|
| Screw plug G 1/8   | 3610158  |
| Plug-type connector<br>Required are: 2 off without<br>or 4 off with intermediate plate | 9210132  |
| Induct. proximity switch   | 3829198  |
| Plug + cable   | 3829099  |
| Pneumatic jet  | 3612033  |
| Lock nut   | 3301803  |
| Intermediate plate for 1824040   | 3456425  |
| Socket head cap screw DIN912-M10x55 12.9   | 3300434  |

# Technical characterisitcs for inductif proximity switches

| Operating voltage UB                | 1030 V DC       |
|-------------------------------------|-----------------|
| Switching function                  | Interlock       |
| Output                              | PNP             |
| Filter body material                | Stainless steel |
| Protection as per DIN 40050         | IP 67           |
| Environmental temperature           | -25+70 °C       |
| Connection                          | Connector       |
| LED Function display                | Yes             |
| Constant current max.               | 150 mA          |
| Rated operating distance            | 0.8 mm          |
| Protected against short circuits Ye |                 |

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Subject to modifications