



Slide Pivot Clamp

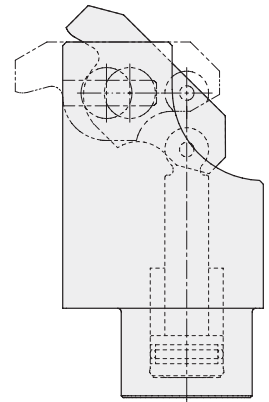
compact version, with optional position monitoring,
double acting, max. operating pressure 350 bar



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

Function



Description

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 insertion of the workpieces.

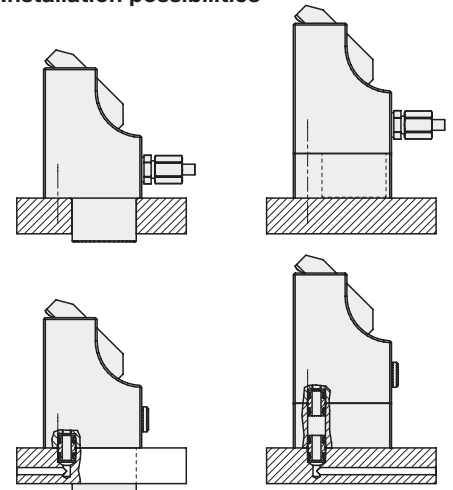
Position of the clamping lever can be monitored by inductive proximity switches or pneumatic jets.

The pivot slide clamp can be installed immersed 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.

Application

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 workpieces 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.

Installation possibilities



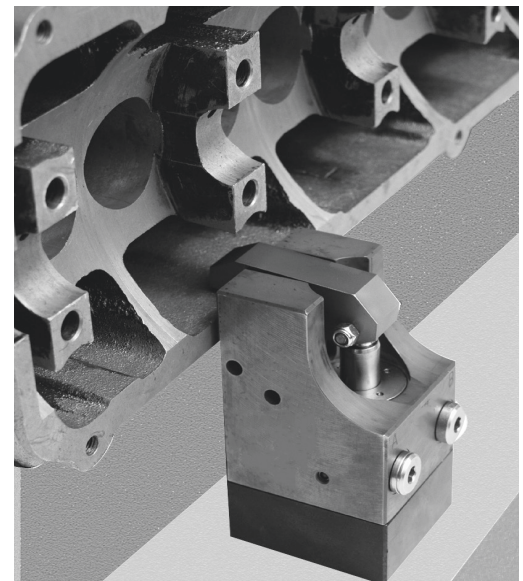
Important notes!

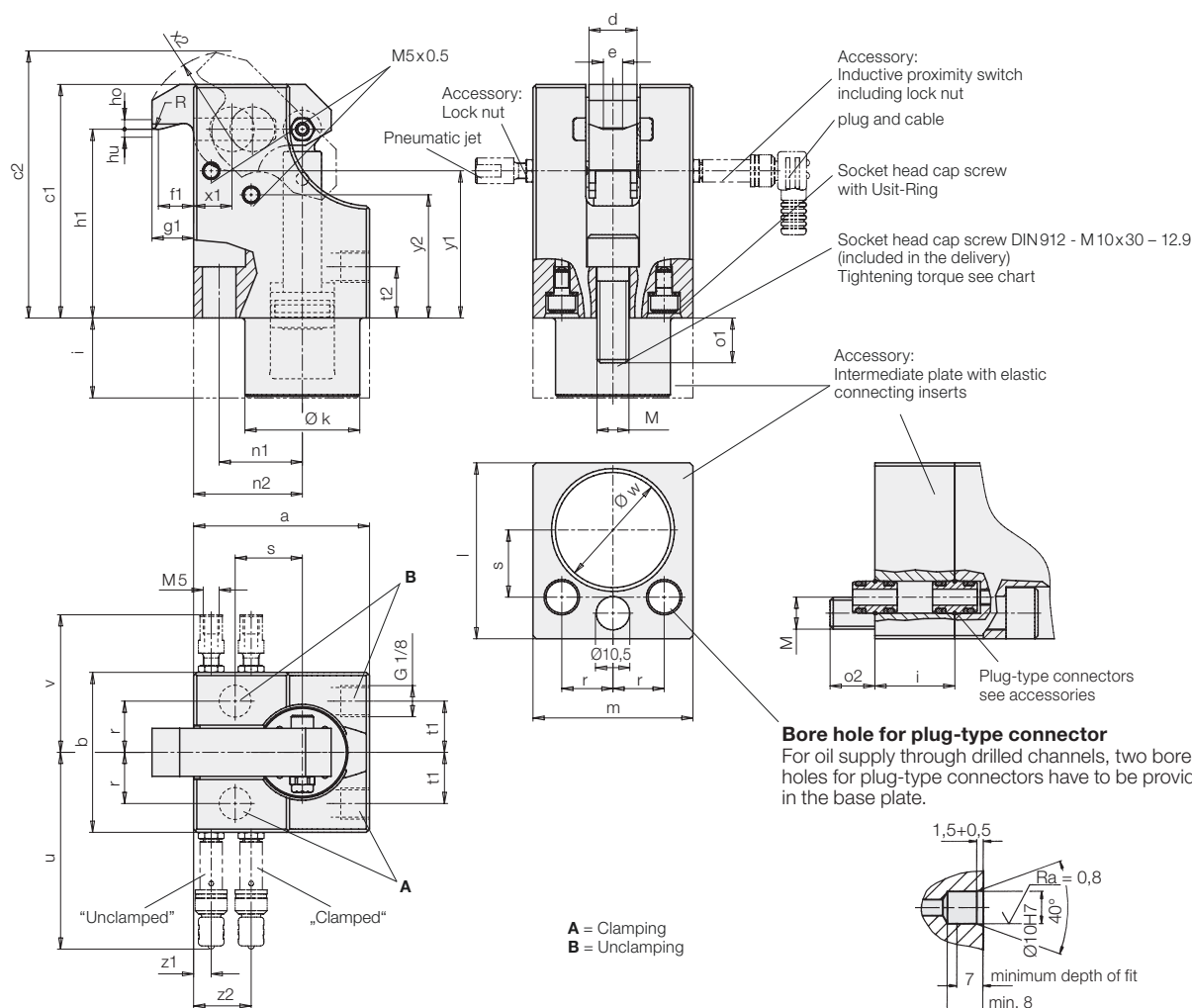
The clamping lever must not be impeded during swivelling movement.

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.

**Metallic wiper
standard**





Clamping force F_{Sp} at 350 bar	[kN]	10
Oil volume clamping	[cm ³]	6
Oil volume unclamping	[cm ³]	4
Max. flow rate	[cm ³ /s]	10
a	[mm]	55
b	[mm]	50
c1 / c2	[mm]	73 / 83.5
d	[mm]	15
e	[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
Ø k	[mm]	35.9
l	[mm]	55
m	[mm]	50
M, socket head cap screw DIN912 / seating torque	[Nm]	M10 / 87
n1 / n2	[mm]	26 / 34
o1 / o2	[mm]	14 / 14
r ± 0.02	[mm]	16
R	[mm]	5
s ± 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.		1824040

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	
Required are: 2 off without	
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 - M 10x55 12.9	3300434

Technical characteristics for inductive proximity switches

Operating voltage U_B	10 ... 30 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	Yes