Subject to modifications

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

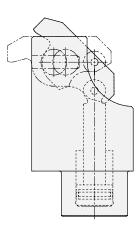
hydraulic oil not only by fitting connection but

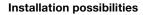
also via drilled channels in the fixture body.

High clamping force, up to 10 kN Minimum dimensions

Advantages

- 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

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.

Important notes!

tion of the workpieces.

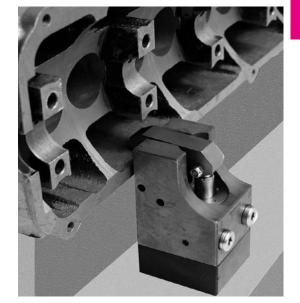
matic jets.

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.

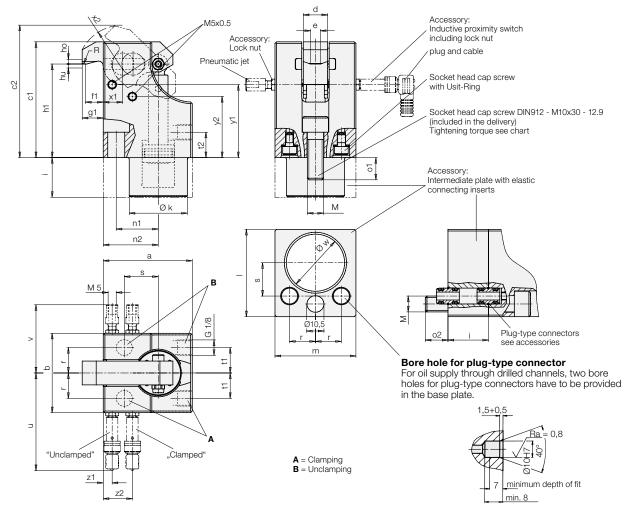
Operating conditions, tolerances and other data see data sheet A 0.100.











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	3610-158
Plug-type connector Required are: 2 off without or 4 off with intermediate plate	9210-132
Induct. proximity switch	3829-198
Plug + cable	3829-099
Pneumatic jet	3612-033
Lock nut	3301-803
Intermediate plate for 1824-040	3456-425
Socket head cap screw DIN912-M10x55 12.9	3300-434

Technical characterisitcs for inductif proximity switches

Operating voltage UB	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	s Yes	

"Unclamped"	"Clamped"	A = Cla B = Und
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
а	[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
I	[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 ±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.		1824-040

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