Swing stroke

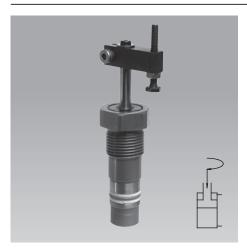
Clamping stroke



## **Mini Swing Clamps with Sturdy Swing Mechanism**

threaded-body type,

double acting, max. operating pressure 150 bar



Hydraulic swing clamps are used for clamping

of workpieces, when it is essential to keep the

clamping area free of straps and clamping components for unrestricted workpiece loa-

Mini swing clamps are particularly suitable for machining of thin-walled workpieces, which

Mini swing clamps are an interesting alternative for pneumatic clamping elements, since they

require only little clamping forces.

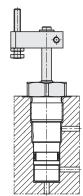
#### **Advantages**

- Minimum dimensions
- Double-acting function
- Sturdy swing mechanism
- Oil supply through drilled channels
- Built-in housing of tube connecting thread available
- Installation as cartridge type by accessory flange
- Simple fixing of clamping arm
- Clamping arm for clamping with minimum deformation available
- Unimpeded loading and unloading of the fixture
- Mounting position: variable
- Standard FKM seals
- Maintenance free

#### Installation and connecting possibilities

#### Threaded-body type

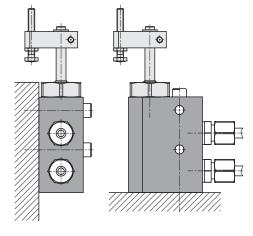
for horizontally-drilled channels



#### Pipe thread

Clamping principle

with accessory built-in housing



#### Description

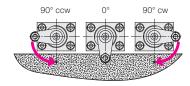
**Application** 

ding and unloading.

require less space.

This double-acting mini swing clamp works as pull-type cylinder where a part of the total stroke is used to swing the piston.

Clockwise and counterclockwise versions are available with an swing angle of 90, 60 and 45 degrees. The 0 degree version can be used as push and pull-type cylinder with anti-rotation piston.

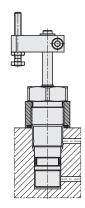


The clamping arms are locked on the piston rod. A safety screw avoids axial displacement.

# Important notes

- Considerable injuries can be caused to fingers during clamping and unclamping in the effective area of the clamping arm.
- Remedy: protection device with electrical locking.
- Operating conditions, tolerances and other data see data sheet A 0.100.

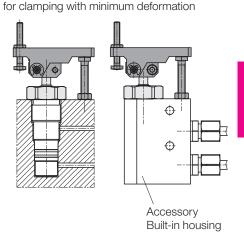
# Installation as cartridge type with accessory fixing flange





#### Threaded-body type

with accessory clamping strap



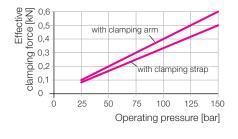
# Technical data Dimensions • Accessories

#### **Technical data** Piston Ø [mm] 10 Rod Ø [mm] 6 Swing stroke [mm] 10 Clamping stroke [mm] 8 Total stroke [mm] 18 Effective piston area [cm<sup>2</sup>] 0,5 Clamping Unclamping 0,78 [cm<sup>2</sup>] Required oil per stroke 0.91 Clamping [cm<sup>3</sup>] Unclamping [cm<sup>3</sup>] 1,42 Max. oil flow rate Clamping [cm<sup>3</sup>/s] 6 Unclamping [cm<sup>3</sup>/s] 10 Min. operating pressure [bar] 25 Max. operating pressure [bar] 150 Max. pulling force [kN] 0,75 Effective clamping force [kN] see diagram Weight 0,12 [kg]

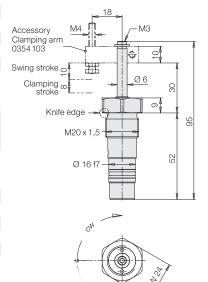
#### Part numbers

Swing angle	Swing direction	Part no.
90°	CW	1848115
90°	CCW	1848125
60°	CW	1848135
60°	CCW	1848145
45°	CW	1848155
45°	CCW	1848 165
0°	-	1848105

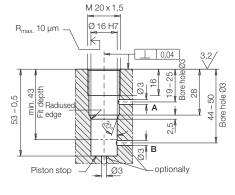
#### Clamping force diagram



#### **Dimensions**

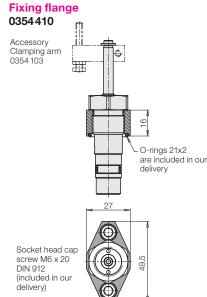


#### Porting details

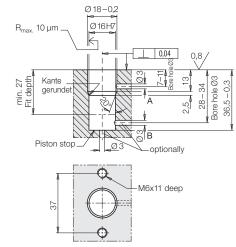


**A** = Clamping **B** = Unclamping

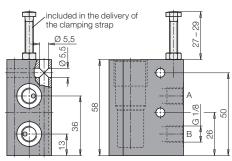
## Accessory

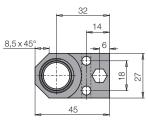


#### Cartridge-type hole

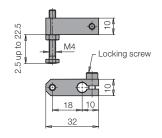


#### Accessory Built-in housing 0346710

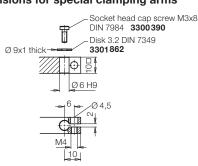




# Accessory Clamping arm 0354103



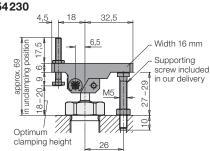
### **Dimensions for special clamping arms**



#### Accessory

#### **Clamping strap**

for clamping with minimum deformation **0354230** 



Römheld GmbH