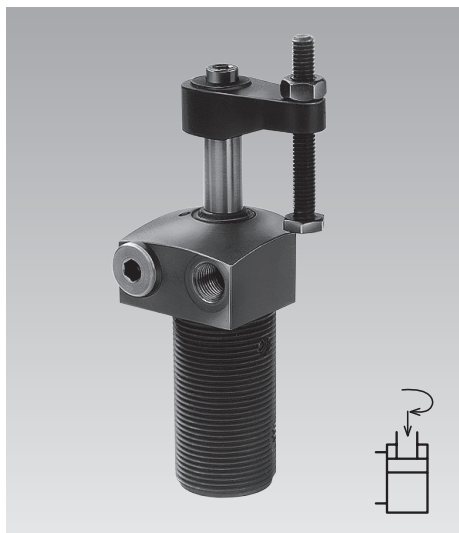
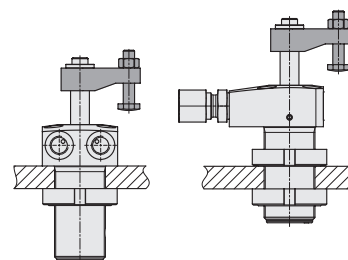


**Compact Swing Clamps with robust sturdy swing mechanism**  
Top flange, metal-protected wiper,  
double-acting, max. operating pressure 350 bar

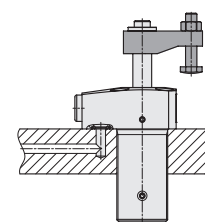


This product has been removed from the standard product line and is available for replacement purposes only. For new applications, please use our configurable articles as found in B 1.8491. Direct interchangeability is not possible. The flange geometry has changed. We recommend comparing the 3D data available on our web-site. The version with a flange at the top and O-ring sealing has an interference contour (see adjacent figure).

**Top flange**

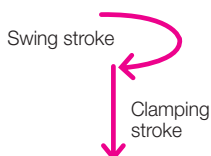


**Top flange with O-ring sealing**



**Function**

This hydraulic clamping element is a pull-type cylinder where a part of the total stroke is used to swing the piston.



**Materials**

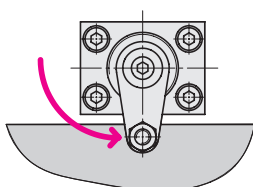
- Housing and piston are made of high alloy steel. By nitrating, wear is reduced and protection against corrosion increased.
- FKM seals

**Swing direction**

The swing clamps are available with clockwise or counterclockwise swing motion or without swing motion (0°).

**Application**

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 loading and unloading.



**Technical characteristics**

Piston Ø	[mm]	14
Rod Ø	[mm]	10
Effective piston area		
Clamping	[cm <sup>2</sup> ]	0.754
Unclamping	[cm <sup>2</sup> ]	1.54
Required oil per stroke		
Clamping	[cm <sup>3</sup> ]	1.2
Unclamping	[cm <sup>3</sup> ]	2.5
Max. flow rate		
Clamping	[cm <sup>3</sup> /s]	5
Unclamping	[cm <sup>3</sup> /s]	10
Min. operating pressure	[bar]	30
Max. operating pressure	[bar]	350
Max. pull force	[kN]	2.63
Eff. clamping force	[kN]	see diagram
Swing angle	[°]	(0, 45, 60, 90) ±2
Swing stroke*	[mm]	8
Clamping stroke*	[mm]	8
Total stroke	[mm]	16

\* At swing angle 0°:  
Swing stroke = 0 mm Clamping stroke = 16 mm

**Standard swing angles are 45°, 60° and 90° ±2°.**

Special angles on request. Other variants, as e.g. versions with metallic wiper on request.

**0° version**

Use as pure pull-type cylinder with a piston which is secured against torsion and which allows eccentric load as per clamping force diagram.

**Option: metallic wiper**

In addition to the FKM wiper, the following double-acting swing clamps can be equipped with a metallic wiper:

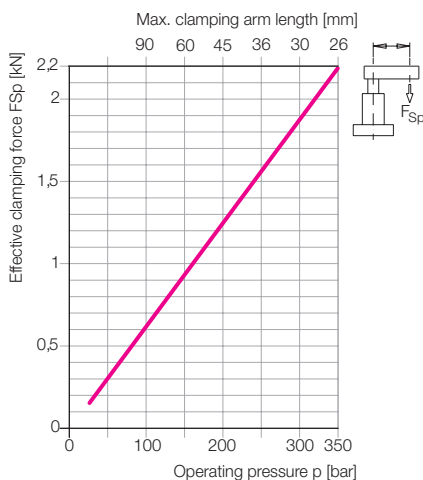
- Flange at the top with O-ring sealing
- Threaded-body type

Part no.: Add only letter "M" to the part number of the swing clamp without metallic wiper.

**Order example:**

Swing clamp **1850 124**  
With metallic wiper **1850 124 M**

**Clamping force diagram**

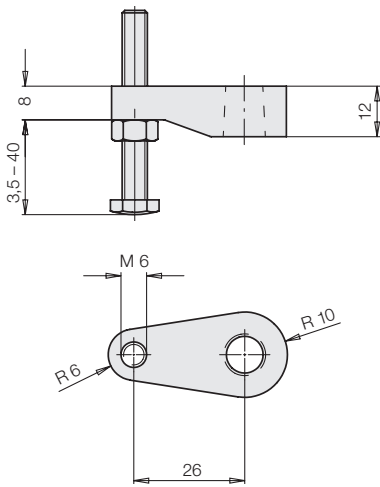




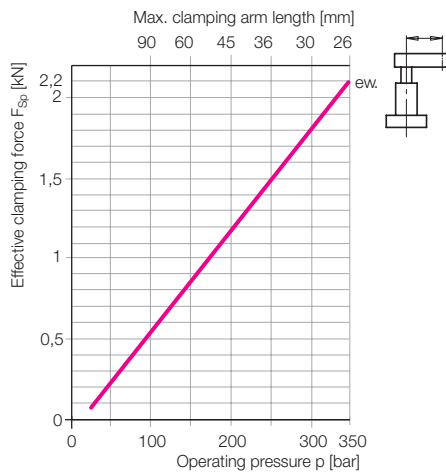


**Clamping arm, complete  
max. 350 bar**

Part no. **0354057**



**Clamping force diagram**



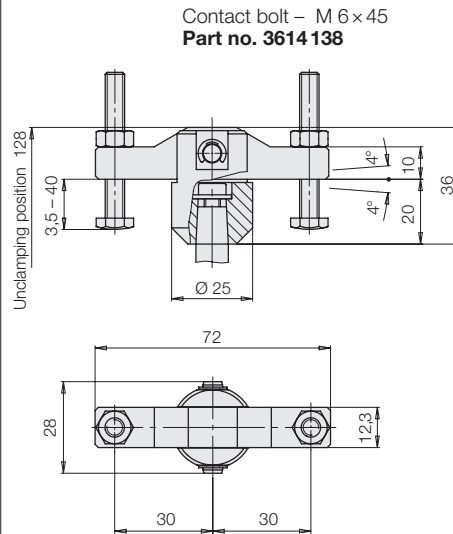
**Special clamping arm**

When using special clamping arms with other lengths, the corresponding operating pressures as shown in the clamping force diagram must not be exceeded.

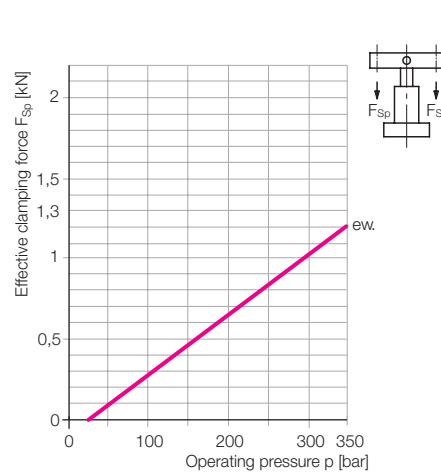
If longer clamping arms will be used, not only the operating pressure but also the flow rate have to be reduced.

**Double clamping arm, complete**

Part no. **0354082**

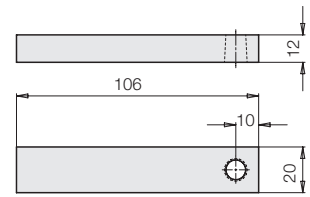


**Clamping force diagram**

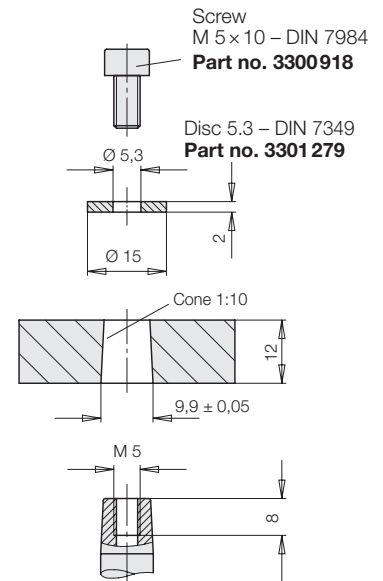


**Clamping arm blank**

Part no. **3548900**

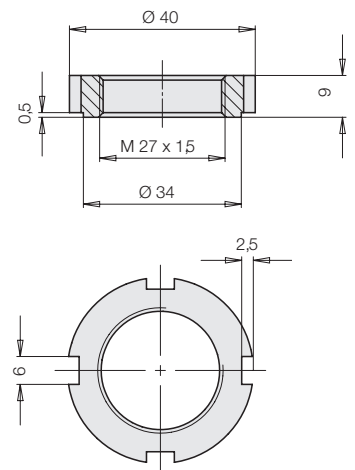


**Dimensions for special clamping arms**



**Lock nut as per DIN 1804**

Part no. **3527076**



**Tube male stud coupling for G1/8**

ND [bar]	Designation	Part no.
250	D 8L G 1/8	<b>9208034</b>
500	D 8S G 1/8	<b>9208116</b>

**Thread reducing adaptor**

ND [bar]	Designation	Part no.
500	GWR 1/8–1/4	<b>3613003</b>