

Securing and holding inquiry

Our project:

How to fill in the questionnaire: First save the form before filling out. To fill out and save, we recommend the latest Adobe Acrobat Reader, available at:
<https://get.adobe.com/reader/>

Planned function of the clamping head in the machine / installation:

1. Force and Load		*Required fields
*Load direction	<p>Securing / holding in only one direction:</p> <p>max.: kN (static without safety factor)</p> <p>Compressive load on the mounting side (e.g. securing a cylinder against retracting)</p> <p>Tensile load on the mounting side (e.g. securing a cylinder against expanding)</p>	
	<p>Securing / holding in both directions:</p> <p>Load direction 1:</p> <p>max.: kN (static without safety factor)</p> <p>Load direction 2:</p> <p>max.: kN (static without safety factor)</p>	
2. Safety		*Required fields
*Protective function (Multiple selections are possible)	<p>Clamping head protects people</p>	
	<p>Clamping head protects machine parts / workpieces</p>	
	<p>Clamping is functional and necessary for operation of the machine (e.g. holding the position against a press force)</p>	
*Safety factor	<p>The holding force of the clamping head should be by a factor of higher than the maximum load to be secured/held</p>	
	<p>not required</p>	
	<p>not yet defined</p>	
*Clamping	<p>Static clamping (the rod is not moving when the clamp is activated)</p>	
	<p>Clamping during movement (occasional emergency braking)</p> <p>When the clamping starts, the rod is moving at a speed of:</p> <p style="text-align: center;">m/s maximum.</p>	

3. Function

*Required fields

Actuation	<p>Hydraulic pressure System pressure in bar: min. bar available at all times Fluid: HLP 46 hydraulic oil other:</p>
	<p>Pneumatic pressure System pressure in bar: min. bar available at all times</p>
	<p>Electric: purely electrical operation possible for loads of up to 2 metric tons. Please contact SITEMA.</p>
	<p>Purely mechanical actuation would be desirable (only possible in connection with a suspension element such as chain, rope, belt, ...)</p>
Clamping on	<p>Round rod (standard) Rail (e. g. T89/B) Steel wire rope</p>
*Operating mode of the clamping head	<p>*Clamp definitely at pressure failure and at zero pressure by pressure is allowed (only if it is not a safety function)</p>
	<p>*Release with pressure at pressure failure and at zero pressure</p>
	<p>*Release operation Must always be possible without movement of the rod whether a load is acting on the clamping head or not (Attention! A lifted load might drop down as a consequence of releasing unless it is otherwise supported) Releasing when a load is acting on the clamping head should not be possible: the machine control automatically links the release operation with relieving the clamping head of the load = protection against accidental release</p>
Positioning	<p>The position must be held precisely after clamping. Allowable tolerance when subject to the load given above: mm</p>
	<p>Admissible path of the rod when clamping: < 0.1 mm < 2 mm < 18 mm</p>
Special version for torque	<p>At the same time, a torque of max. Nm must be held (Clamping only at standstill, no braking of the rotational movement allowed)</p>

4. General specifications

*Required fields

*Frequency of operation	Cycles per year:
Rod diameter	undefined defined with mm
Load direction	horizontal vertical
Layout of installation	Add sketch as attachment, if possible
Installation of clamping head	stationary traveling with with the load
Size limits	Height / length: max. mm Outer diameter / edge length: max. mm Weight: as small as possible (traveling with the load) If possible less than kg
Mounting of the clamping head	The clamping head will NOT be mounted directly to a cylinder The clamping head will be mounted directly to a cylinder Type:
Rod during operation:	Rod must be able to leave the clamping head during operation Hint: lateral forces acting on the clamping head are not admissible and must be absorbed by suitable bearings
*Environment: (multiple selections are possible)	normal dry workshop at room temperature humid outdoor application sea air aggressive environment, e.g. acidic vapors considerable dirt / dust Extreme temperatures (< 0 °C and/or > 60 °C) machine tool wet machine tool dry food industry usage of steam jet, detergent solutions or similar clean room other (please specify)

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