## Typ: RBPS 10/20/28/45

Version 08.05.2014

# **Clamping Elements**



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#### Installation and Operating Instructions

#### 1. Security Advice:

Caution:

Please read the complete documentation carefully before starting the set-up operation!

- 1.1. Depending on the type of application danger will be caused by:
  - Contusion during installation caused by unsecured connecting construction
  - Improper pneumatic connections
  - Malfunction of pneumatic supply caused by pressure fluctuations
  - Loose pneumatic connection
  - Loose attachment screws
  - Not turning off the operating instrument during installation or repair works at the clamping element
  - Human malpractice
  - Non-observance of the information and warning facilities during installation and the set-up operation

Installation instructions have to be followed and the necessary equipment and supplies have to be used during installation, modifications, maintenance and repair. Throughout every working process on the clamping elements the appropriate accident prevention regulations, VDE security and installation instructions have to be followed.

1.2. The application of the clamping elements – in accordance with regulations – implies that this technology will be utilized exclusively in consideration of the realm of possibilities defined by technical specification. All different ways of use exclude further liability of the Zimmer GmbH.

#### 2. The Model RBPS (with spring storage and Power Modul)

The clamping element of the model RBPS is preset to the appropriate piston rod gauge ex factory. The piston rod must have a hardness from min. 54 HRC and a tolerance from min. f8 / g8.

#### 2.1. Operational area:

The BWPS and TKPS models are designed for static and dynamic clamping. The elements are licensed for 2.000 breaking processes. The use of specific friction lining prevents piston rod damage with dynamic usage. Short reaction rates are guaranteed by the implemented quick-action ventilating valves.

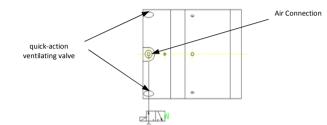
- max. surrounding temperature 70°C
- pneumatic operating pressure min 4 bar, max. 8 bar

## 3. <u>RBPS</u>

The model RBPS can be operated as a plain spring storage element.

Fig. 1 Diagram of Connection

Standard -Connection



## 4. Installation Instructions

## 4.1. General:

For mounting the clamping elements, used screws have to comply with the category of solidity of min. 8.8. Attachment screws have to be tightened with the required moment. (Tab.1 and Tab.2)

The accessibility of the elements has to be warranted, so that the abrasion parts can be changed without a major difficulty.

Caution: The cap of the security clamp may not be removed, spring preload!

#### 4.2. Installation / Uninstalling:

- Removal of the plastic blanking plug
- install G1/8" or G1/4" pneumatic connections
- Relieve pressure from model RBPS
- mount clamping element together with the piston rod
- turn the screws into the attachment threads and only apply the screws
- Clamp model RBPS by depressurizing
- Attachment screws have to be tightened with the required moment (Tab.1)
- For uninstalling perform in reverse order



