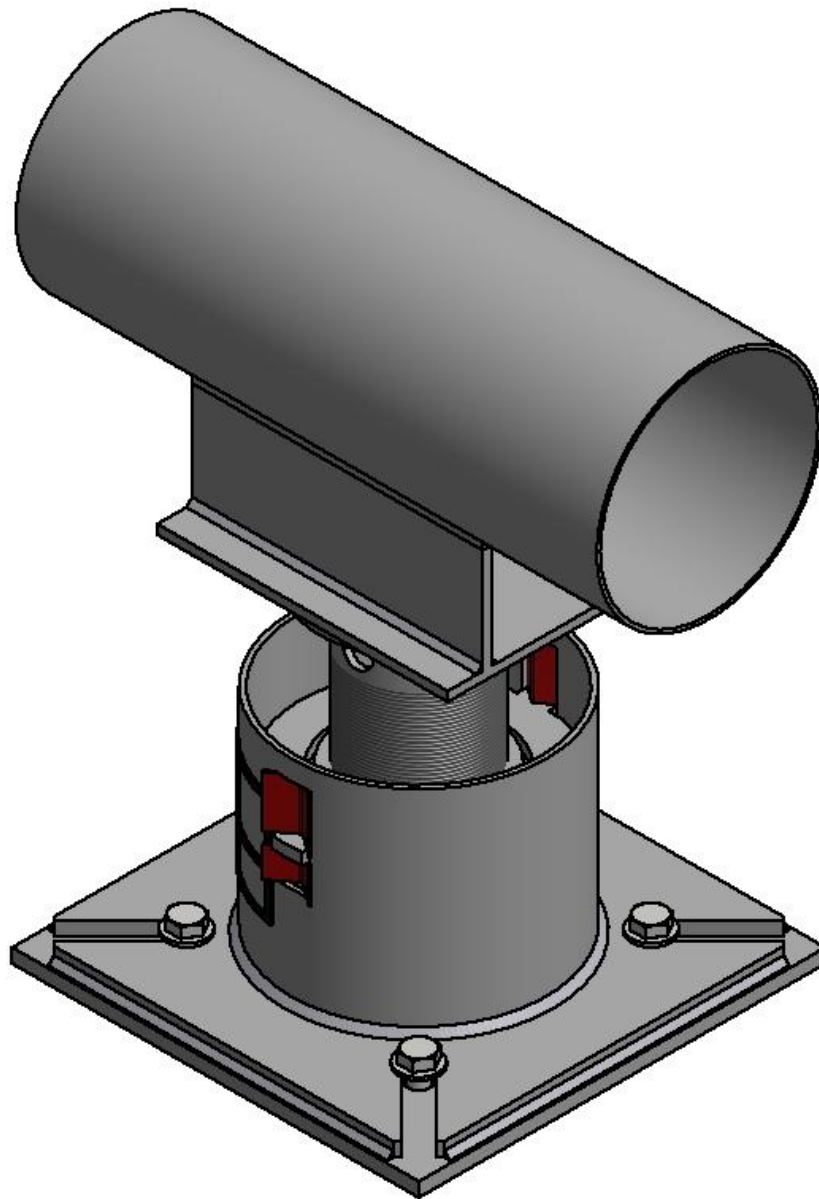
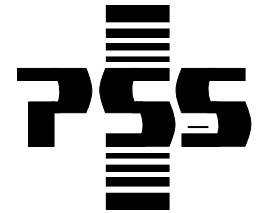


## Product and assembly instructions – Spring support





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## 1. Allocation

- The support designation (identification plate: 'Mark. no.')

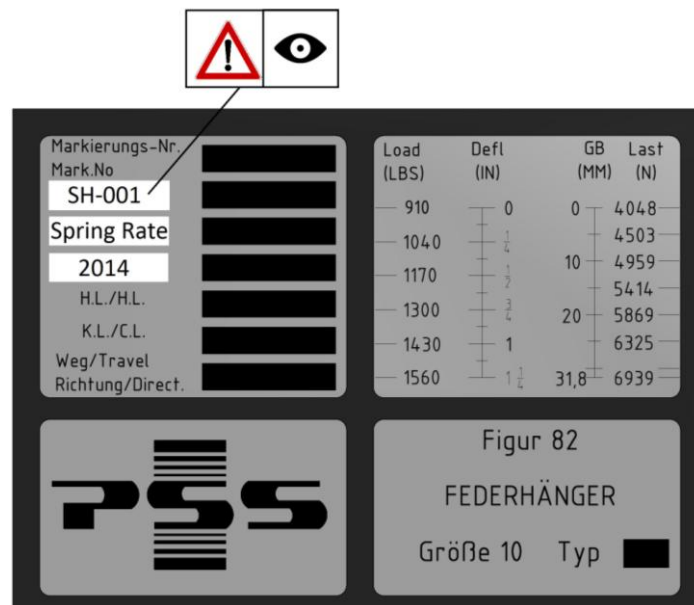




image: Identification plate

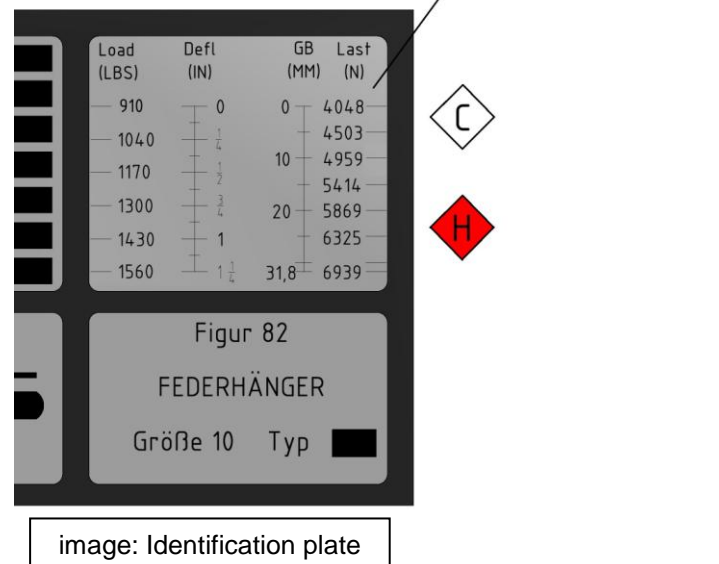
## 1.1 Identification plate

The identification plate displays the figure number, size, type and all important data related to the spring hanger:

- Mark no. = Bearing designation
- H.L./H.L. = Hot load ①  
(load at operation case)
- K.L./C.L. = Cold load ②  
(load at installation case)
- Path = Desired path
- Direction = Direction of motion
  - Down
  - + Up

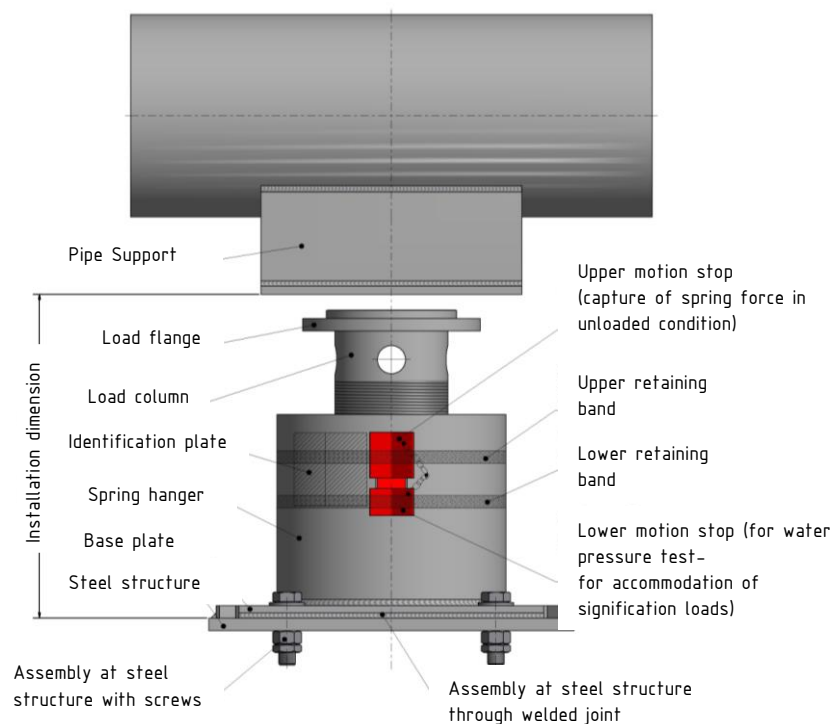
The hot load  (red mark, load at operation case ①) and the cold load  (white mark, load at installation case ②) are marked on the load scale.

- ① (operation load)
- ② (installation load)



## 2. Positioning

- Position the spring hanger so that it is centred to the pipe support
- Installation dimensions must be the same as in the support drawing. (otherwise see step 5.)
- Fastening the Base plate by bolting it or welding it.



## 3. Installation

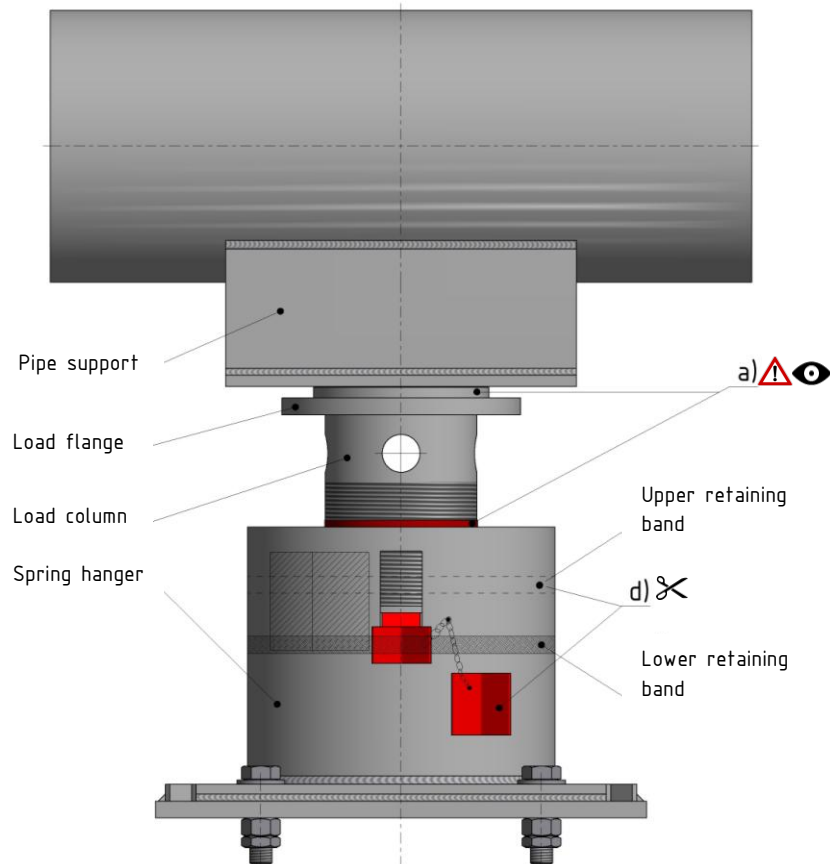
a) Rotate the load column until the pipe support lies on the spring cap and the spring hanger is subjected to a load

- **Caution:** Do not unscrew the load Column beyond the red mark (mark on the load column at threat)

b) if the spring cap and the pipe support are not in contact with each other when the red mark is reached, the spring hanger must be underpinned (refer to step 5)

c) The upper motion stop is released by rotating the load column (use the steel bar as a rotation lever) until the spring is loaded and the motion stop is loosen.

d) Remove the upper retaining band and the upper motion stop (after load removal).



### 3.1 in case of water pressure test

- In case of a water pressure test, the lower motion stop (with the retaining band) must remain mounted!  
(necessary for accommodation significant loads, which emerge due to the piping being filled with water)

- After the water pressure test has been performed, or if no water pressure test is necessary, proceed to step 4.

## 4. Activation in case of cold system

- a) The lower retaining band and the lower motion stop must be removed.
- b) The spring position mark must be adjusted, if necessary, to the spring **C**-mark position.  
To adjusting rotate the Load column.
- c) The red line at the load column may not go beyond the upper edge of the pipe casing.
- d) When the system is in an operational status, it must be checked whether the spring position is between **C** and the **H**-mark.

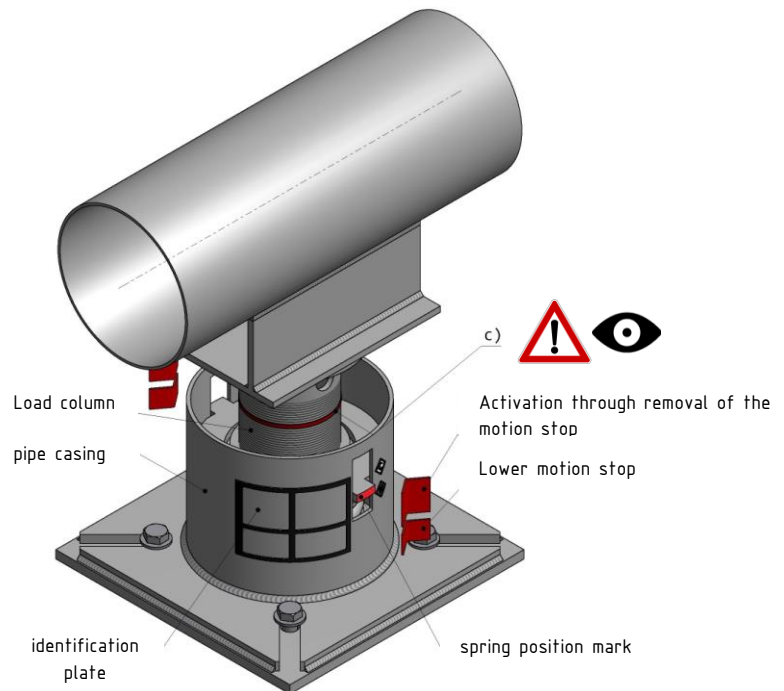


image: Spring position mark

### 4.1 Section of spring position mark (in case of cold system)

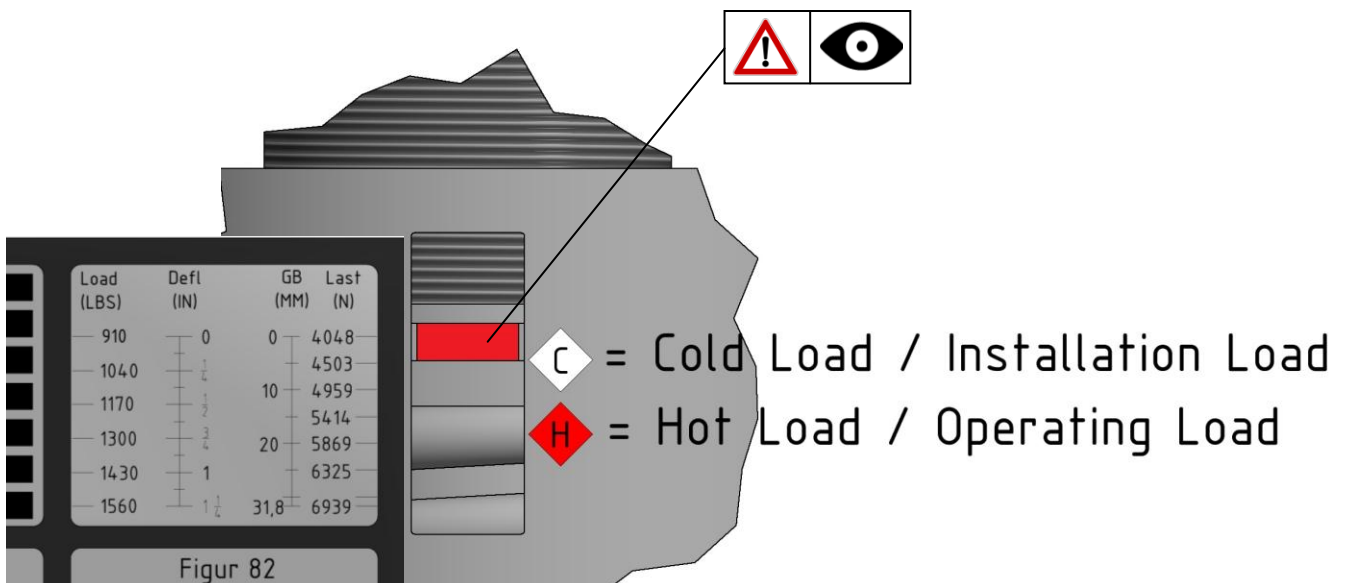
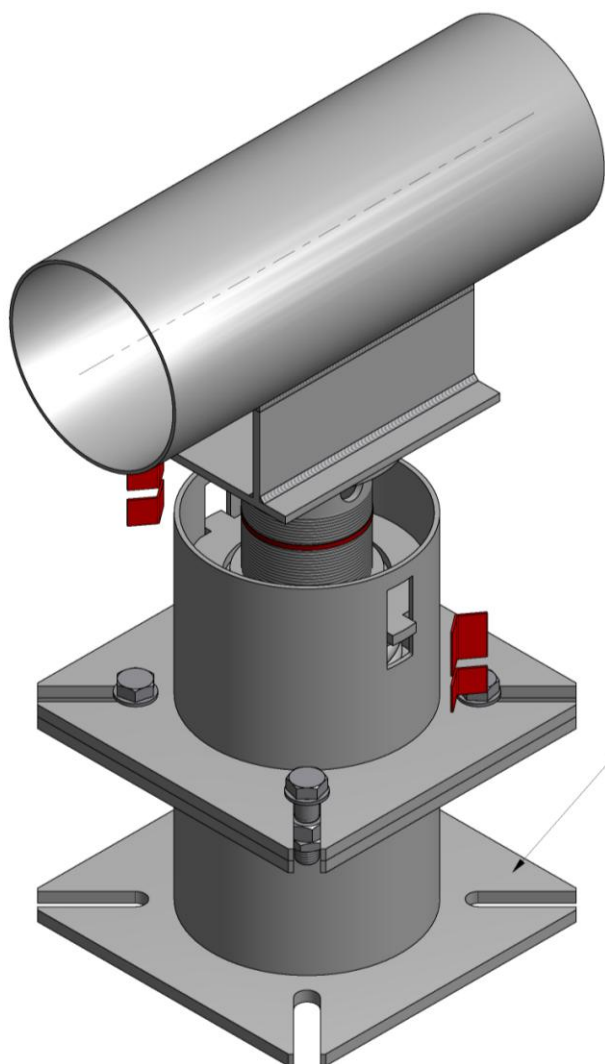


image: Spring position mark

## 5. Substructure-related proposal



- Underpinning through welded structure with profiles
- Underpinning using a base as special structure

### Example

Base - Fig. 82, 268, 98 (type F) - For bridging the stack heights.