

**4 Type**

- SB** thrust pin Steel, with seal
- SA\*** thrust pin Steel, without seal

| d <sub>1</sub> | Side thrust F <sub>0</sub> in N ≈ at l <sub>2</sub> |     |     | l <sub>1</sub> -1,5 |      |       | d <sub>2</sub> | a <sub>1</sub> | a <sub>2</sub> |
|----------------|-----------------------------------------------------|-----|-----|---------------------|------|-------|----------------|----------------|----------------|
|                | 5                                                   | 100 | 300 | 11,5                | 19   | 26,5* |                |                |                |
| 5              | 20                                                  | 50  | 100 | 11,5                | 19   | 26,5* | M 12           | 2,5            | 5,7            |
| 6              | 40                                                  | 75  | 150 | 11,5                | 19   | 26,5* | M 12           | 3              | 7,7            |
| 10             | 100                                                 | 200 | 300 | 18                  | 31,5 | 45 *  | M 18 x 1,5     | 5              | 10,7           |

| d <sub>1</sub> | k         | l <sub>2</sub> | l <sub>3</sub> | s  | w   | x <sub>1</sub> | x <sub>2</sub> | Code no. for mounting tool |
|----------------|-----------|----------------|----------------|----|-----|----------------|----------------|----------------------------|
| 5              | 1,5 x 45° | 6,7            | 6              | 10 | 1,6 | 1,7            | 1,3            | GN 713.1-5.6               |
| 6              | 1,5 x 45° | 10,7           | 10             | 10 | 1,8 | 1,9            | 1,4            | GN 713.1-5.6               |
| 10             | 2 x 45°   | 16,7           | 16             | 16 | 3,2 | 3,4            | 2,7            | GN 713.1-10                |

\* not available from stock, requires a minimum order quantity

**Specification**

- Housing Steel zinc plated, blue passivated
- Thrust pin Steel, hardened zinc plated, blue passivated
- Thrust spring coding
  - Force low thrust: grey
  - medium thrust: black
  - high thrust: silver
- Seal rubber NBR (Perbunan)
- Elastomer characteristics → Page 1140
- RoHS compliant

**Accessory**

- Mounting tools GN 713.1 (Code no. see table)

**Information**

Spring loaded side thrust pins GN 713 are versatile and practical elements for holding, positioning and clamping workpieces.

They eliminate costly alternatives, are space saving and simple to install. The protruding height of the thrust pin can be adjusted with the threaded body.

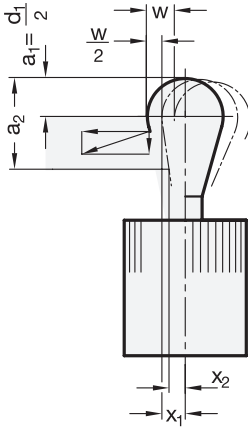
For easy mounting a suitable tool GN 713.1 is available (see table).

see also...

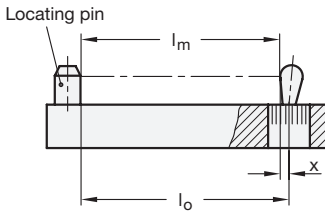
- Technical and assembly instructions → Page 504
- Side thrust pins GN 715 (Press on type) → Page 500

|                            |                              |
|----------------------------|------------------------------|
| How to order               | 1 d <sub>1</sub>             |
|                            | 2 Side thrust F <sub>0</sub> |
|                            | 3 l <sub>1</sub>             |
| <b>GN 713-6-75-11,5-SB</b> | 4 Type                       |

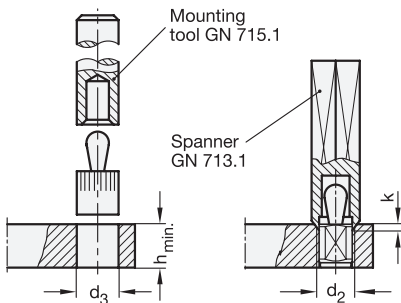
### Technical and assembly instructions



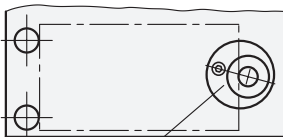
- $w$  = Movement of pin  
 $F$  = Side thrust in N  
 Initial thrust =  $F_0$   
 End thrust =  $1,1 \times F_0$   
 $a_2 - a_1$  = Clamping range for workpiece  
 $x$  = Distance centre line – Thrust point at  $\frac{w}{2}$   
 $x_1$  for highest thrust point ( $a_1$ )  
 $x_2$  for lowest thrust point ( $a_2$ )  
 $l_0$  = Distance end stop – Bore of side thrust bush pin  
 $l_0$  =  $l_m + x$   
 $l_m$  = average length of workpiece  $\frac{l_{max} + l_{min.}}{2}$   
 For contact points (workpiece height) between  $a_1$  and  $a_2$  a value for  $x$  has to be used lying between  $x_1$  and  $x_2$  (interpolation).



By observing the above values the full movement of the side thrust pin will be available to cover the tolerance of the workpiece.



For inserting the side thrust pins the use of a mounting tool GN 715.1 or spanner GN 713.1 is recommended.



Eccentric bush GN 715.2

Eccentric bushings GN 715.2 are a tooling accessory for GN 714 / GN 715.

They enable a precise optimum setting of side thrust pins. This allows an adjustment to  $l_0$  to accommodate for instance a larger tolerance range on a workpiece.