

Side Thrust Pins

Housing Aluminum, Thrust Pin Steel / Plastic,
Press-On Type

SPECIFICATION

Types

- Type **SA**: Thrust pin steel, without seal
- Type **KA**: Thrust pin plastic, without seal
- Type **SB**: Thrust pin steel, with seal
- Type **KB**: Thrust pin plastic, with seal

Housing

Aluminum
Plain

Thrust pin

- Steel for type SA / SB
 - Hardened
 - Zinc plated, blue passivated
- Plastic for type KA / KB
Polyacetal (POM)

Thrust spring

- Side thrust force light
Stainless steel AISI 301
- Side thrust force medium
Spring steel blackened
- Side thrust force heavy
Spring steel zinc plated, blue passivated

Seal

Chloroprene rubber (CR)



INFORMATION

Spring loaded side thrust pins GN 715 are versatile and practical elements for holding, positioning and clamping of workpieces.

They eliminate costly alternatives, are space saving and easy to install. The knurled body requires only a hole tolerance of H8.

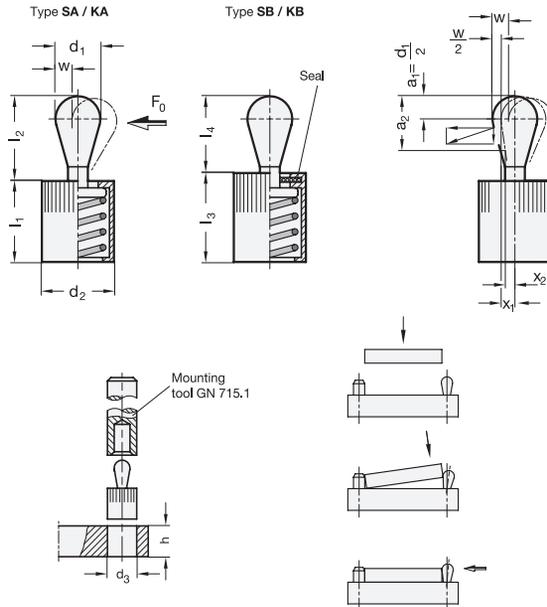
For mounting the side thrust pins a suitable mounting tool GN 715.1 (see page) is available (see table).

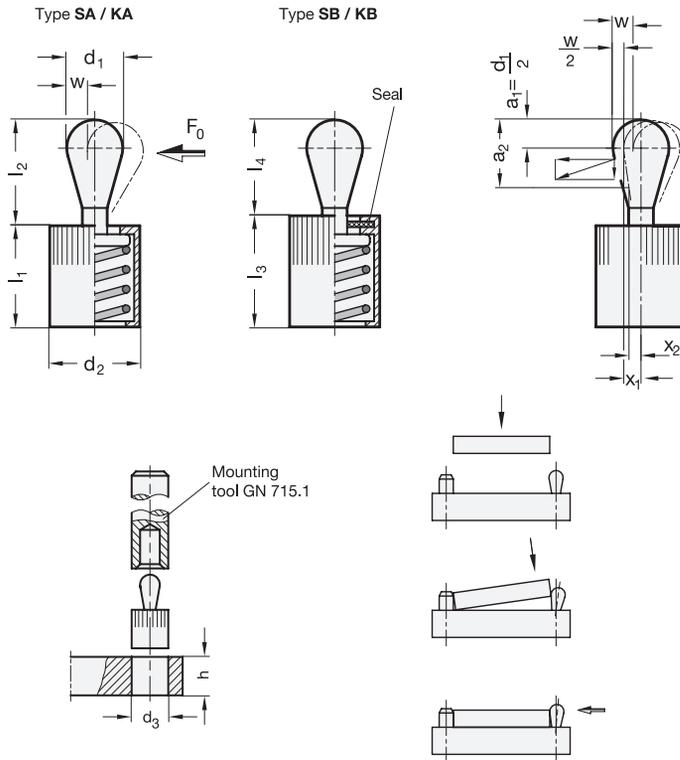
ACCESSORY

- GN 715.2 Eccentric Bushings (see page 867)
- GN 715.1 Mounting Tools (Code no. see table) (see page)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Plastic Characteristics (see page A26)





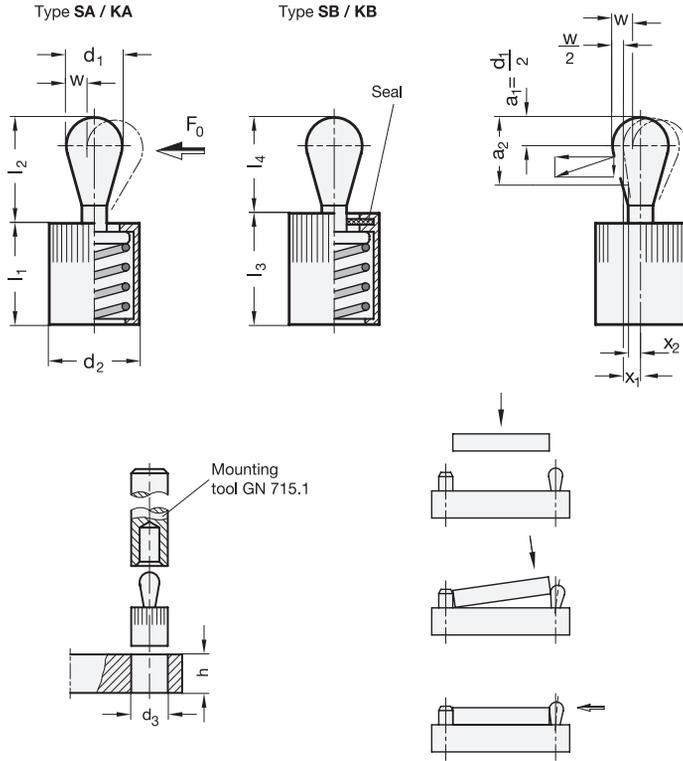
GN 715-SA

Description	d1	Side thrust force F in N	d2	l1 -1	l2 ±0.5	l3 ±0.5	w	Code no. for mountig tool	⚖
GN 715-3-10-SA	3	10	6	7	4	2.5	0.5	GN 715.1-3	1
GN 715-3-20-SA	3	20	6	7	4	2.5	0.5	GN 715.1-3	1
GN 715-3-40-SA	3	40	6	7	4	2.5	0.5	GN 715.1-3	1
GN 715-5-20-SA	5	20	10	11	6.7	4.2	0.8	GN 715.1-5.6	3
GN 715-5-50-SA	5	50	10	11	6.7	4.2	0.8	GN 715.1-5.6	3
GN 715-5-100-SA	5	100	10	11	6.7	4.2	0.8	GN 715.1-5.6	3
GN 715-6-40-SA	6	40	10	11	10.7	7.7	1	GN 715.1-5.6	3
GN 715-6-75-SA	6	75	10	11	10.7	7.7	1	GN 715.1-5.6	4
GN 715-6-100-SA	6	100	10	11	10.7	7.7	1	GN 715.1-5.6	4
GN 715-8-50-SA	8	50	12	13.5	13.6	9.6	1.3	GN 715.1-8	7
GN 715-8-100-SA	8	100	12	13.5	13.6	9.6	1.3	GN 715.1-8	7
GN 715-8-150-SA	8	150	12	13.5	13.6	9.6	1.3	GN 715.1-8	8
GN 715-10-100-SA	10	100	16	18	16.7	11.7	1.6	GN 715.1-10	16
GN 715-10-150-SA	10	150	16	18	16.7	11.7	1.6	GN 715.1-10	15
GN 715-10-205-SA	10	205	16	18	16.7	11.7	1.6	GN 715.1-10	16

GN 715-KA

Description	d1	Side thrust force F in N	d2	l1 -1	l2 ±0.5	l3 ±0.5	w	Code no. for mountig tool	⚖
GN 715-3-10-KA	3	10	6	7	4	2.5	0.5	GN 715.1-3	1
GN 715-5-20-KA	5	20	10	11	6.7	4.2	0.8	GN 715.1-5.6	2
GN 715-6-40-KA	6	40	10	11	10.7	7.7	1	GN 715.1-5.6	2
GN 715-8-50-KA	8	50	12	13.5	13.6	9.6	1.3	GN 715.1-8	3
GN 715-10-100-KA	10	100	16	18	16.7	11.7	1.6	GN 715.1-10	7





GN 715-SB

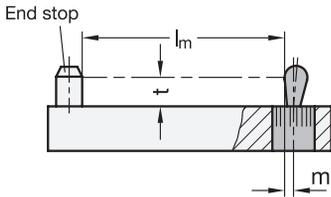
Description	d ₁	Side thrust force F in N	d ₂	l ₁ -2	l ₂ ±0.5	l ₃ ±0.5	w	Code no. for mountig tool	⚖
GN 715-3-10-SB	3	10	6	7.5	4	2.5	0.5	GN 715.1-3	2
GN 715-3-20-SB	3	20	6	7.5	4	2.5	0.5	GN 715.1-3	1
GN 715-3-40-SB	3	40	6	7.5	4	2.5	0.5	GN 715.1-3	1
GN 715-5-20-SB	5	20	10	12	6.3	3.8	0.8	GN 715.1-5.6	3
GN 715-5-50-SB	5	50	10	12	6.3	3.8	0.8	GN 715.1-5.6	3
GN 715-5-100-SB	5	100	10	12	6.3	3.8	0.8	GN 715.1-5.6	3
GN 715-6-40-SB	6	40	10	12	10.3	7.3	1	GN 715.1-5.6	3
GN 715-6-75-SB	6	75	10	12	10.3	7.3	1	GN 715.1-5.6	4
GN 715-6-100-SB	6	100	10	12	10.3	7.3	1	GN 715.1-5.6	4
GN 715-8-50-SB	8	50	12	14.5	13.2	9.2	1.3	GN 715.1-8	7
GN 715-8-100-SB	8	100	12	14.5	13.2	9.2	1.3	GN 715.1-8	7
GN 715-8-150-SB	8	150	12	14.5	13.2	9.2	1.3	GN 715.1-8	7
GN 715-10-100-SB	10	100	16	18.5	16.4	11.4	1.6	GN 715.1-10	15
GN 715-10-150-SB	10	150	16	18.5	16.4	11.4	1.6	GN 715.1-10	16
GN 715-10-205-SB	10	205	16	18.5	16.4	11.4	1.6	GN 715.1-10	16

GN 715-KB

Description	d ₁	Side thrust force F in N	d ₂	l ₁ -2	l ₂ ±0.5	l ₃ ±0.5	w	Code no. for mountig tool	⚖
GN 715-3-10-KB	3	10	6	7.5	4	2.5	0.5	GN 715.1-3	1
GN 715-5-20-KB	5	20	10	12	6.3	3.8	0.8	GN 715.1-5.6	1
GN 715-6-40-KB	6	40	10	12	10.3	7.3	1	GN 715.1-5.6	2
GN 715-8-50-KB	8	50	12	14.5	13.2	9.2	1.3	GN 715.1-8	3
GN 715-10-100-KB	10	100	16	18.5	16.4	11.4	1.6	GN 715.1-10	7

Indexing elements 8

Technical and Installation instructions GN 713 | GN 714 | GN 715

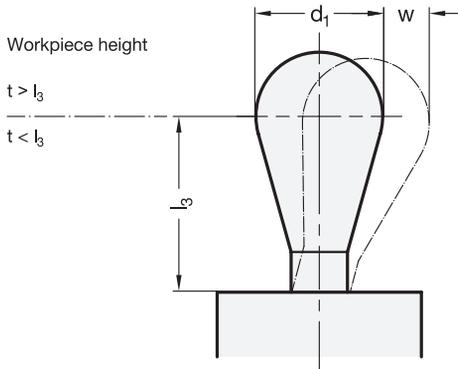


The position of the mounting hole results from the workpiece length l_m plus the hole offset m , which is calculated as shown below:

w = Maximum movement range of the thrust pin

t = Workpiece height

m = Hole offset



Case 1:

The workpiece height t is greater than the cone height l_3

$$m = \frac{d_1}{2} - \frac{w}{2}$$

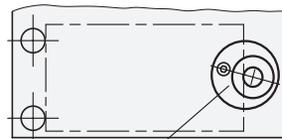
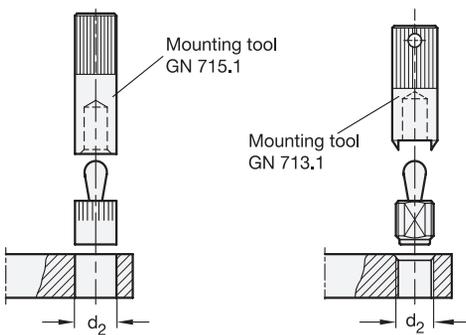
Case 2:

The workpiece height t is smaller than the cone height l_3

$$m = \frac{d_1}{2} - (l_3 - t) \times 0,123$$

If the position of the mounting hole is determined as specified, the full movement of the side thrust pin will be available to cover the tolerance of the workpiece.

In case 1, the lateral clamping force is coupled with a downward pull that presses the workpiece against the contact surface.



Eccentric bushing GN 715.2

The use of a mounting tool GN 715.1 or mounting tool GN 713.1 is recommended for installation.

Eccentric bushings GN 715.2 are an assembly aid for side thrust pins GN 714 / GN 715. They enable adjustment of the side thrust pins to the most favorable clamping position, e.g. to bridge larger tolerance ranges of a workpiece.

