3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10

GN 713 | Side Thrust Pins

Housing Steel, Thrust Pin Steel / Plastic, with Thread

Ganter Norm®

Type **SA / KA**

Type **SB / KB**

Seal

4 Type

SA Thrust pin steel,
without seal

KA Thrust pin plastic,
without seal

SB Thrust pin steel,
with seal

KB Thrust pin plastic,
with seal

d$_1$	Side thrust force **F** in N ≈			l$_1$ −2			d$_2$	l$_2$		l$_3$		s	w		Code no. for mountig tool
	Type SA / SB		Type KA / KB					Type SA / KA	Type SB / KB	Type SA / KA	Type SB / KB		Type SA / KA	Type SB / KB	
5	20	50	100	20	11,5	19	26,5	M 12	6,4	6	3,9	3,5	10	1,6	0,8	GN 713.1-5.6
6	40	75	100	40	11,5	19	26,5	M 12	10,4	10	7,4	7	10	2	1	GN 713.1-5.6
10	100	150	205	100	18	31,5	45	M 18 x 1,5	16,9	16	11,9	11	16	3,2	1,6	GN 713.1-10

Specification

Housing
Steel
Zinc plated, blue passivated

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

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)

RoHS

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 mounting the side thrust pins a suitable mounting tool GN 713.1 is available (see table).

see also...	Page
GN 715 Side Thrust Pins (Press on Type)	QVX
GN 714 Side Thrust Pins (Press-On Type, without Pressure Pin)	QVX

Technical Information	
Technical and Installation Instructions	QVX
Plastic Characteristics	QVX

Accessory

GN 713.1 Mounting Tools (Code no. see table)

How to order		1	d$_1$
		2	Side thrust pin F
GN 713-6-75-11,5-SB		3	l$_1$
		4	Type

Side Thrust Pins

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

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10

End stop

l_m

t

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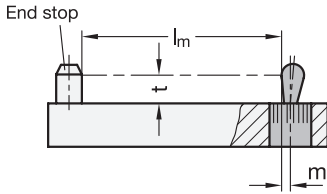
The position of the mounting hole results from the work-piece length l_m plus the hole offset m, which is calculated as shown below:

w   =   Maximum movement range of the thrust pin

t   =   Workpiece height

m   =   Hole offset

Workpiece height

t > l_3

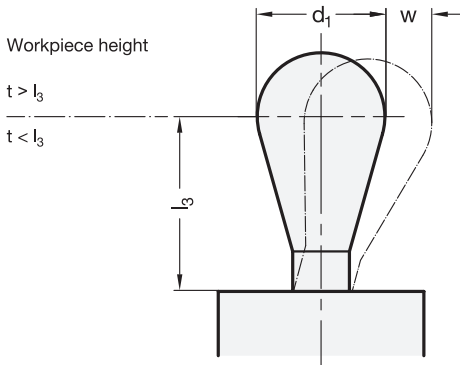t < l_3

d_1 w

l_3

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.

Mounting tool
GN 715**.**1

Mounting tool
GN 713**.**1

d_2

d_2
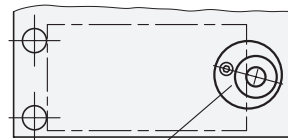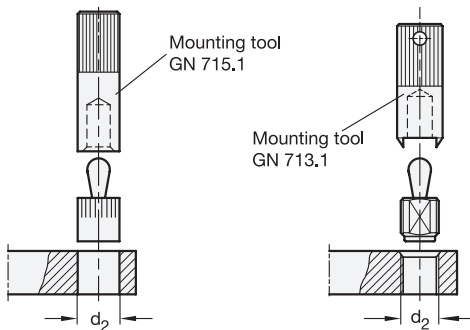
Eccentric bushing GN 715**.**2

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.