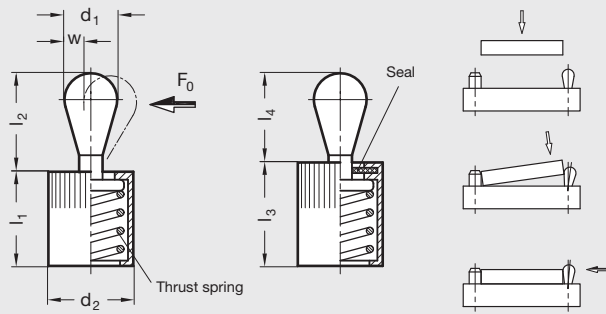


GN 715 | Press-Fit Side Thrust Pins

Metric Size



ISO 9001 Supplier

Call for RoHS

Body

Aluminum

Without seal

Silver passivated finish

With seal

Gold passivated finish

Thrust spring color code:

Low thrust: Silver (except size 5 – copper)

Medium thrust: Gold (except size 5 – silver)

High thrust: Copper (except size 5 – gold)

Seal: Rubber NBR/perbunan

Thrust pins are available in hardened, zinc plated steel or Delrin® plastic. They can be purchased with or without seals.

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. Version with seal used in applications involving a fluid or liquid. For easy insertion a suitable tool, GN 715.1, is available. See technical details and assembly instructions, next page.

10

Indexing, Spring and Ball Plungers

Steel Thrust Pin

Dimensions in: millimeters (inches)

Part Number		d ₁	Side Thrust FO (N)	a ₁	a ₂	d ₂	d ₃ H ₈	h min.	l ₁ -1 mm	l ₂	l ₃ -1 mm	l ₄	w	x ₁	x ₂
Without Seal	With Seal														
3WZ70/SA	3WZ70/SB	3 (.12)	10	1.5 (.06)	3.5 (.14)	6 (.24)	6 (.24)	7 (.28)	7 (.28)	4 (.16)	7 (.28)	4 (.16)	1 (.04)	1 (.04)	.75 (.03)
3WZ71/SA	3WZ71/SB		20												
3WZ72/SA	3WZ72/SB		40												
5WZ73/SA	5WZ73/SB	5 (.20)	20	2.5 (.10)	5.7 (.22)	10 (.39)	10 (.39)	12 (.47)	11 (.43)	6.7 (.26)	11.5 (.45)	6 (.24)	1.6 (.06)	1.7 (.07)	1.3 (.05)
5WZ74/SA	5WZ74/SB		50												
5WZ75/SA	5WZ75/SB		100												
6WZ76/SA	6WZ76/SB	6 (.24)	40	3 (.12)	7.7 (.30)	10 (.39)	10 (.39)	12 (.47)	11 (.43)	10.7 (.42)	11.5 (.45)	10 (.39)	2 (.08)	1.9 (.07)	1.4 (.06)
6WZ77/SA	6WZ77/SB		75												
6WZ78/SA	6WZ78/SB		150												
8WZ79/SA	8WZ79/SB	8 (.31)	50	4 (.16)	8.9 (.35)	12 (.47)	12 (.47)	14 (.55)	13 (.51)	13.9 (.55)	14 (.55)	13 (.51)	2.6 (.10)	2.7 (.11)	2.1 (.08)
8WZ80/SA	8WZ80/SB		100												
8WZ81/SA	8WZ81/SB		200												
10WZ82/SA	10WZ82/SB	10 (.39)	100	5 (.20)	10.7 (.42)	16 (.63)	16 (.63)	18 (.71)	17 (.67)	16.7 (.66)	18 (.71)	16 (.63)	3.2 (.13)	3.4 (.13)	2.7 (.11)
10WZ83/SA	10WZ83/SB		200												
10WZ84/SA	10WZ84/SB		300												

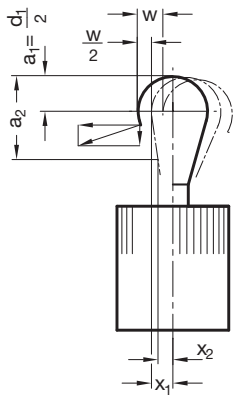


Delrin® Thrust Pin

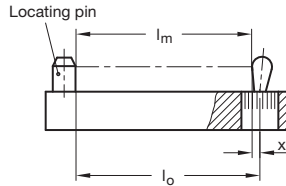
Dimensions in: millimeters (inches)

Part Number		d ₁	Side Thrust FO (N)	a ₁	a ₂	d ₂	d ₃ H ₈	h min.	l ₁ -1 mm	l ₂	l ₃ -1 mm	l ₄	w	x ₁	x ₂
Without Seal	With Seal														
3WZ70/KA	3WZ70/KB	3 (.12)	10	1.5 (.06)	3.5 (.14)	6 (.24)	6 (.24)	7 (.28)	7 (.28)	4 (.16)	7 (.28)	4 (.16)	1 (.04)	1 (.04)	.75 (.03)
5WZ73/KA	5WZ73/KB	5 (.20)	20	2.5 (.10)	5.7 (.22)	10 (.39)	10 (.39)	12 (.47)	11 (.43)	6.7 (.26)	11.5 (.45)	6 (.24)	1.6 (.06)	1.7 (.07)	1.3 (.05)
6WZ76/KA	6WZ76/KB	6 (.24)	40	3 (.12)	7.7 (.30)	10 (.39)	10 (.39)	12 (.47)	11 (.43)	10.7 (.42)	11.5 (.45)	10 (.39)	2 (.08)	1.9 (.07)	1.4 (.06)
8WZ79/KA	8WZ79/KB	8 (.31)	50	4 (.16)	8.9 (.35)	12 (.47)	12 (.47)	14 (.55)	13 (.51)	13.9 (.55)	14 (.55)	13 (.51)	2.6 (.10)	2.7 (.11)	2.1 (.08)
10WZ82/KA	10WZ82/KB	10 (.39)	100	5 (.20)	10.7 (.42)	16 (.63)	16 (.63)	18 (.71)	17 (.67)	16.7 (.66)	18 (.71)	16 (.63)	3.2 (.13)	3.4 (.13)	2.7 (.11)

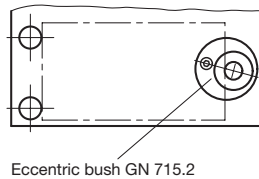
Technical Details



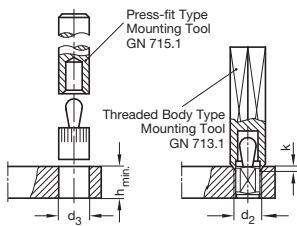
w = movement of pin
 F = side thrust [N]
 initial thrust = F
 end thrust = 1.1 x F
 a₂ - a₁ = clamping range for workpiece
 x = distance center line. thrust point at w/2;
 x₁ for highest thrust point (a₁)
 x₂ for lowest thrust point (a₂)
 l_o = distance end stop. bore of thrust bush
 l_o = l_m + x
 l_m = average length of workpiece (l_{max.} + l_{min.}) / 2



For contact points (workpiece height) between a₁ and a₂, a value for x has to be used lying between x₁ and x₂ (interpolating).
 By observing the above values, the full movement of the side thrust pin is available to cover the tolerance of the workpiece.



Eccentric bushings GN 715.2 are a tooling accessory. They allow the precise-setting of the side thrust pins. This allows the alteration of distance l_o for bridging of a larger tolerance on a workpiece than the actual scope of the pin.



For inserting press-fit type side thrust pins, the use of mounting tool GN-715.1 is recommended. For inserting threaded body type side thrust pins, GN 713.1 mounting tool is recommended.