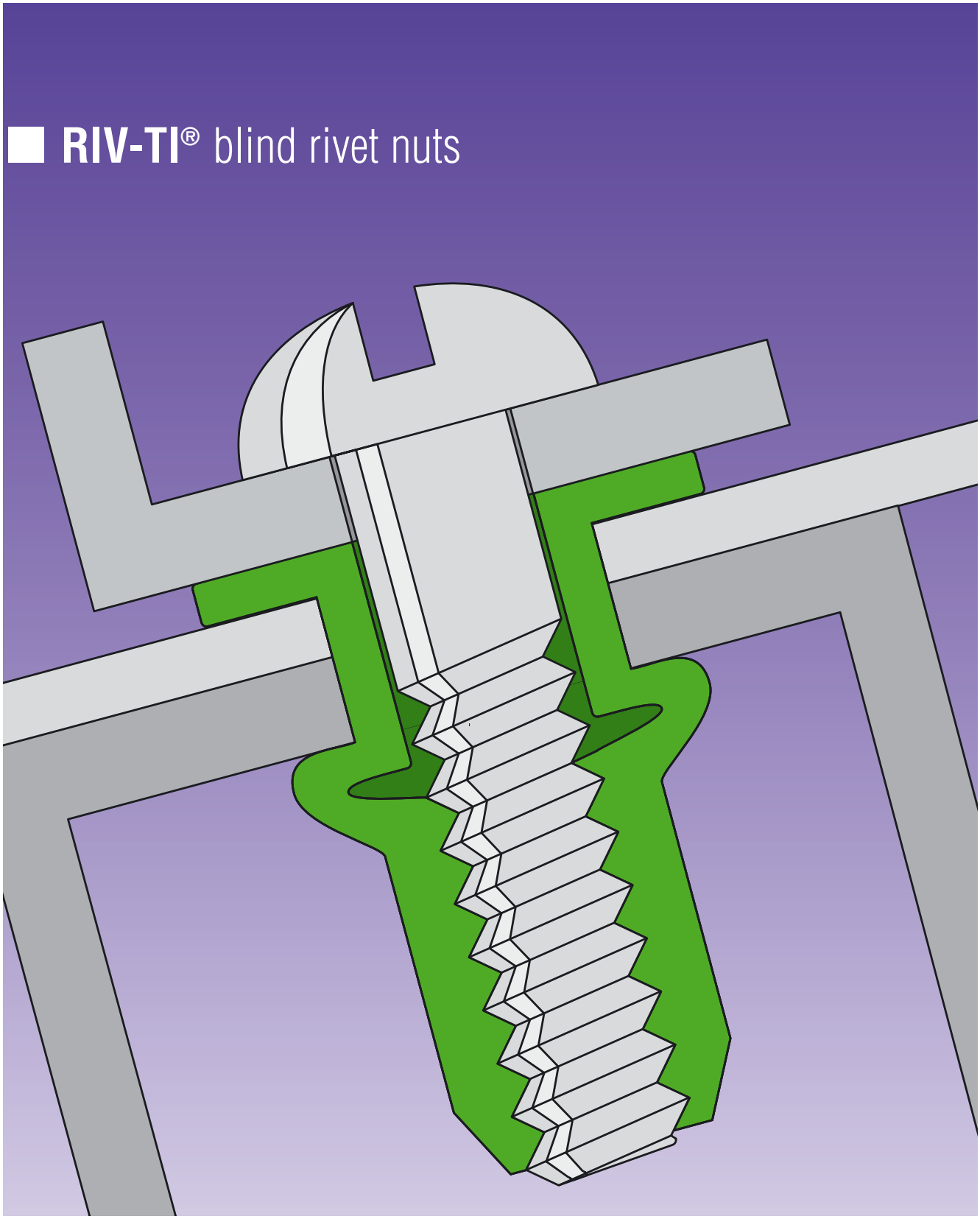
RIV-TI® blind rivet nuts



RIV-TI® blind rivet nuts

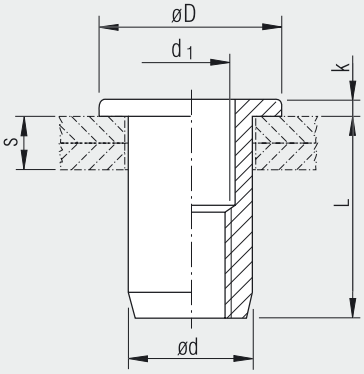
Flat head
Round body
Open end

Material

Aluminium

Steel
zinc, passivate

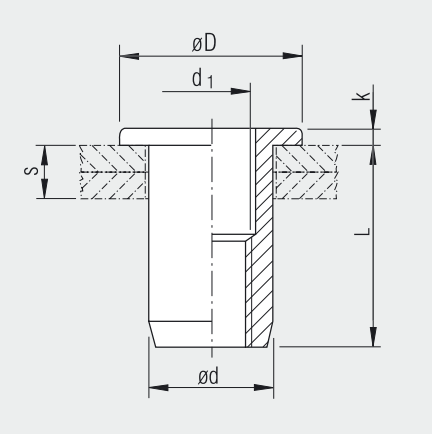
Brass



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No. Aluminium	Steel	Brass
M 3	0.5 – 2.0	5.2	5.0	8.0	0.8	9.8	**336 351**[1]	**336 181**[1]	–
	2.0 – 3.0	5.2	5.0	8.0	0.8	10.8	**336 353**[1]	**336 183**[1]	–
M 4	0.5 – 3.0	6.1	6.0	10.0	0.8	10.8	**336 453**	**336 223**	**336 493**
	3.0 – 4.5	6.1	6.0	10.0	0.8	12.3	**336 455**	**336 225**	–
M 5	0.5 – 3.0	7.1	7.0	11.0	1.0	12.0	**336 552**	**336 262**	**336 592**
	3.0 – 5.5	7.1	7.0	11.0	1.0	15.0	**336 554**	**336 264**	–
M 6	0.5 – 3.0	9.1	9.0	13.0	1.5	14.5	**336 631**	**336 711**	**336 671**
	3.0 – 5.5	9.1	9.0	13.0	1.5	16.5	**336 633**	**336 713**	–
	5.5 – 8.0	9.1	9.0	13.0	1.5	19.0	**336 634**[2]	**336 714**	–
M 8	0.5 – 3.0	11.1	11.0	16.0	1.5	16.0	**336 771**	**336 857**	**336 817**
	3.0 – 5.5	11.1	11.0	16.0	1.5	18.5	**336 773**	**336 859**	–
	5.5 – 8.0	11.1	11.0	16.0	1.5	21.5	**336 775**[2]	**336 860**	–
M 10	0.8 – 3.5	12.6	12.4	18.5	2.3	19.8	**336 901**	–	–
	3.5 – 6.0	12.6	12.4	18.5	2.3	22.8	**336 903**[2]	–	–
M 10	0.8 – 3.5	13.1	13.0	19.0	2.0	21.0	–	**336 988**	–
	3.5 – 6.0	13.1	13.0	19.0	2.0	24.0	–	**336 990**[2]	–
M 12	1.0 – 4.0	16.1	16.0	23.0	2.0	25.0	– [2]	**336 011**	–
	4.0 – 7.0	16.1	16.0	23.0	2.0	28.0	–	**336 012**	–

[1] *No lead-in chamfer*
[2] *Not standard stock - minimum quantity on request*

We reserve the right to amend specifications at any time.



Flat head
Round body
Open end

Material

Stainless steel
AISI 304 Cu 1.4567

Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	9.0	1.0	11.0	**334 225**
	2.0 – 3.5	6.1	6.0	9.0	1.0	12.5	**334 226**
M 5	0.5 – 3.0	7.1	7.0	10.0	1.0	11.5	**334 266**
	3.0 – 5.0	7.1	7.0	10.0	1.0	15.0	**334 267**
M 6	0.5 – 3.0	9.1	9.0	12.0	1.5	14.5	**334 716**
	3.0 – 5.0	9.1	9.0	12.0	1.5	16.5	**334 717**
	5.0 – 7.0	9.1	9.0	12.0	1.5	18.5	**–**
M 8	0.5 – 3.0	11.1	11.0	15.0	1.5	16.0	**334 855**
	3.0 – 5.5	11.1	11.0	15.0	1.5	18.5	**334 856**
M 10	0.8 – 3.0	12.2	12.0	15.0	1.0	18.5	**334 985**
	3.0 – 5.0	12.2	12.0	15.0	1.0	20.5	**334 986**

We reserve the right to amend specifications at any time.

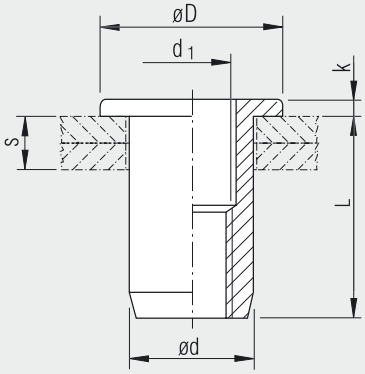
RIV-TI® blind rivet nuts

Flat head
Round body
Open end

Material

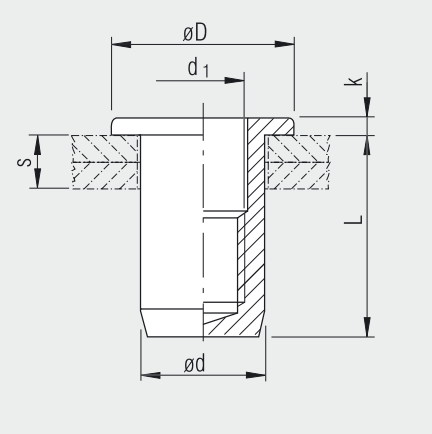
Stainless steel
AISI 316 Cu 1.4578

Extra-high corrosion resistance



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	9.0	1.0	11.0	**–**
M 5	0.5 – 3.0	7.1	7.0	10.0	1.0	11.5	**334 268**
M 6	0.5 – 3.0	9.1	9.0	12.0	1.5	14.5	**334 718**
	3.0 – 5.0	9.1	9.0	12.0	1.0	11.0	**–**
M 8	0.5 – 3.0	11.1	11.0	15.0	1.5	16.0	**334 870**

We reserve the right to amend specifications at any time.



Flat head
Round body
Closed end

Material

Aluminium

Steel
zinc, passivate

Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No. ■ Aluminium	Part No. ■ Steel
M 4	0.5 – 3.0	6.1	6.0	10.0	0.8	14.8	**336 433**	**336 203**
	3.0 – 4.5	6.1	6.0	10.0	0.8	16.3	**–**	**336 205**[1]
M 5	0.5 – 3.0	7.1	7.0	11.0	1.0	18.0	**336 532**	**336 242**
	3.0 – 5.5	7.1	7.0	11.0	1.0	20.5	**336 534**[1]	**336 244**[1]
M 6	0.5 – 3.0	9.1	9.0	13.0	1.5	21.5	**336 611**	**336 691**
	3.0 – 5.5	9.1	9.0	13.0	1.5	24.5	**336 613**[1]	**336 693**
M 8	0.5 – 3.0	11.1	11.0	16.0	1.5	22.5	**336 751**	**336 837**
	3.0 – 5.5	11.1	11.0	16.0	1.5	25.5	**336 753**[1]	**336 839**

[1] *Not standard stock - minimum quantity on request*

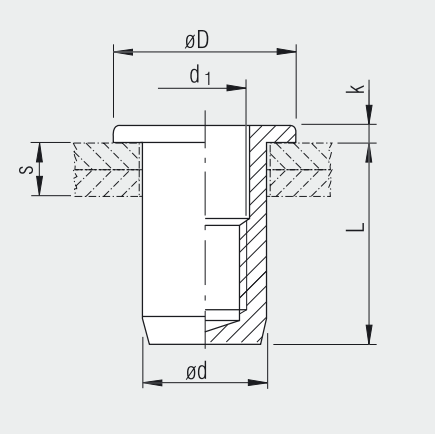
We reserve the right to amend specifications at any time.

RIV-TI® blind rivet nuts

Flat head
Round body
Closed end

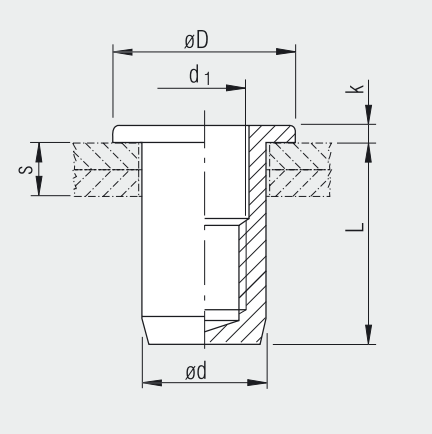
Material

Stainless steel
AISI 304 Cu 1.4567



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	9.0	1.0	15.0	**334 207**
M 5	0.5 – 3.0	7.1	7.0	10.0	1.0	17.5	**334 242**
M 6	0.5 – 3.0	9.1	9.0	12.0	1.5	21.5	**334 691**
M 8	0.5 – 3.0	11.1	11.0	15.0	1.5	23.5	**334 841**

We reserve the right to amend specifications at any time.



Flat head
Round body
Closed end

Material

Stainless steel
AISI 316 Cu 1.4578

EDELSTAHL® Rostfrei

Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 5	0.5 – 3.0	7.1	7.0	10.0	1.0	17.5	**334 445**
M 6	0.5 – 3.0	9.1	9.0	12.0	1.5	21.5	**334 698**
M 8	0.5 – 3.0	11.1	11.0	15.0	1.5	23.5	**334 843**

We reserve the right to amend specifications at any time.

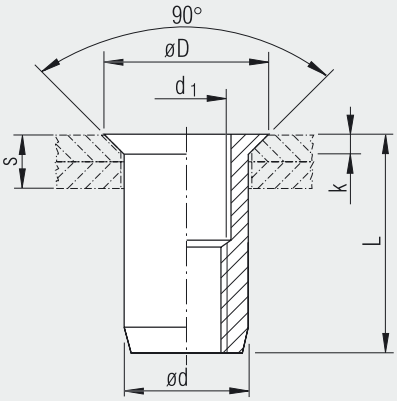
RIV-TI® blind rivet nuts

Countersunk head
Round body
Open end

Material

Aluminium

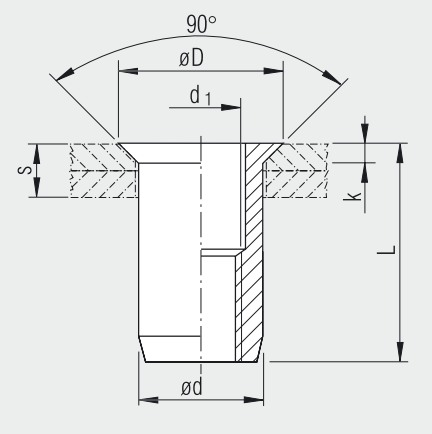
Steel
zinc, passivate



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No. Aluminium	Part No. Steel
M 3	1.7 – 3.5	5.2	5.0	8.0	1.5	11.3	**336 361**[1]	**336 191**[1]
M 4	1.7 – 3.5	6.1	6.0	9.0	1.5	11.5	**336 461**	**336 231**
	3.5 – 5.0	6.1	6.0	9.0	1.5	13.0	**336 465**[2]	**336 235**[2]
M 5	1.7 – 4.0	7.1	7.0	10.0	1.5	13.0	**336 561**	**336 271**
	4.0 – 6.5	7.1	7.0	10.0	1.5	16.0	**336 563**	**336 273**
M 6	1.7 – 4.5	9.1	9.0	12.0	1.5	17.0	**336 641**	**336 721**
	4.5 – 6.5	9.1	9.0	12.0	1.5	19.0	**336 642**	**336 722**
M 8	1.7 – 4.5	11.1	11.0	14.0	1.5	19.0	**336 781**	**336 867**
	4.5 – 6.5	11.1	11.0	14.0	1.5	21.0	**336 782**	**336 868**
M 10	1.7 – 4.5	12.6	12.4	15.4	1.5	21.0	**336 911**[2]	**336 997**
	4.5 – 6.5	12.6	12.4	15.4	1.5	23.0	**336 912**[2]	**336 998**
M 12	2.0 – 4.5	16.1	16.0	19.0	1.8	26.0	–	**336 021**
	4.5 – 7.5	16.1	16.0	19.0	1.8	29.0	–	**336 022**

[1] *No lead-in chamfer*
[2] *Not standard stock - minimum quantity on request*

We reserve the right to amend specifications at any time.



Countersunk head
Round body
Open end

Material

Stainless steel
AISI 304 Cu 1.4567

Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	1.2 – 3.0	6.1	6.0	8.0	1.0	12.0	**334 236**
M 5	1.2 – 3.5	7.1	7.0	9.0	1.0	12.0	**334 276**
M 6	1.7 – 4.5	9.1	9.0	12.0	1.5	17.0	**334 726**
M 8	1.7 – 4.5	11.1	11.0	14.0	1.5	17.5	**334 865**
	4.5 – 6.5	11.1	11.0	14.0	1.5	19.5	**334 864**
M 10	1.7 – 4.5	12.2	12.0	15.0	1.5	20.0	**334 994**

We reserve the right to amend specifications at any time.

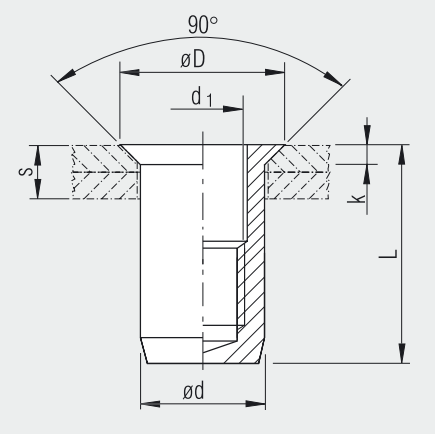
RIV-TI® blind rivet nuts

Countersunk head
Round body
Closed end

Material

Aluminium

Steel
zinc, passivate



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No. ■ Aluminium	Part No. ■ Steel
M 4	1.7 – 3.5	6.1	6.0	9.0	1.5	15.5	**336 441**[1]	**336 211**
	3.5 – 5.0	6.1	6.0	9.0	1.5	17.0	**336 445**[1]	**336 215**[1]
M 5	1.7 – 4.0	7.1	7.0	10.0	1.5	18.0	**336 541**[1]	**336 251**
	4.0 – 6.5	7.1	7.0	10.0	1.5	20.5	**336 543**[1]	**336 253**[1]
M 6	1.7 – 4.5	9.1	9.0	12.0	1.5	22.0	**336 621**	**336 701**
	4.5 – 6.5	9.1	9.0	12.0	1.5	24.0	**336 622**[1]	**336 702**[1]
M 8	1.7 – 4.5	11.1	11.0	14.0	1.5	25.0	**336 761**[1]	**336 847**
	4.5 – 6.5	11.1	11.0	14.0	1.5	28.0	**336 762**[1]	**336 848**[1]

[1] *Not standard stock - minimum quantity on request*

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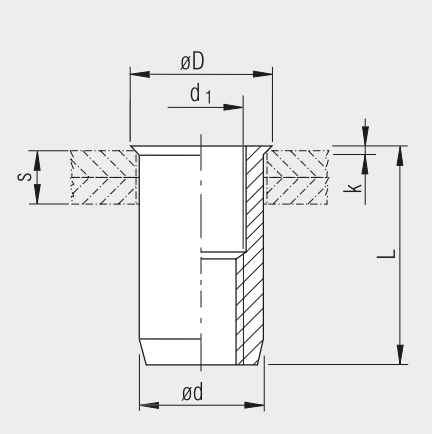


Slim head
Round body
Open end
(holes not countersunk)

Material

Aluminium

Steel
zinc, passivate

Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No. Aluminium	Part No. Steel
M 4	0.5 – 3.0	6.1	6.0	6.5	0.5	10.8	**335 443**	**335 263**
M 5	0.5 – 3.0	7.1	7.0	7.5	0.5	12.0	**335 453**	**335 283**
	3.0 – 5.5	7.1	7.0	7.5	0.5	15.0	**–**	**335 284**
M 6	0.5 – 3.0	9.1	9.0	9.5	0.5	14.5	**335 473**	**335 293**
	3.0 – 5.5	9.1	9.0	9.5	0.5	16.5	**335 474**[1]	**335 294**
M 8	0.5 – 3.0	11.1	11.0	11.5	0.5	16.0	**335 483**	**335 303**
	3.0 – 5.5	11.1	11.0	11.5	0.5	18.5	**–**	**335 304**
M 10	0.8 – 3.5	12.6	12.4	12.9	0.5	19.5	**–**	**335 313**

[1] *Not standard stock - minimum quantity on request*

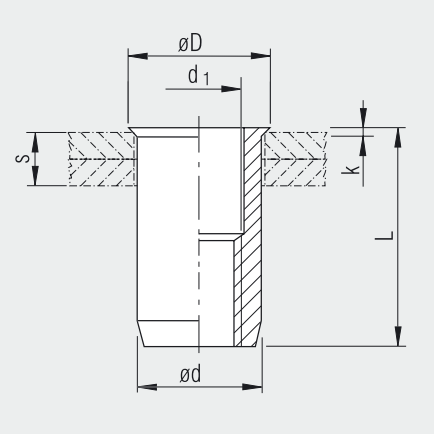
We reserve the right to amend specifications at any time.

RIV-TI® blind rivet nuts

Slim head
Round body
Open end
(holes not countersunk)

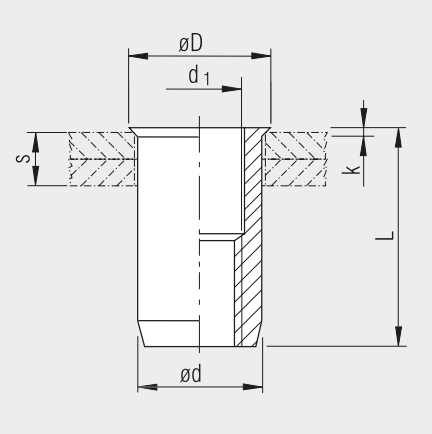
Material

Stainless steel
AISI 304 Cu 1.4567



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	6.5	0.5	11.0	**334 260**
M 5	0.5 – 3.0	7.1	7.0	7.5	0.5	12.0	**334 283**
M 6	0.5 – 3.0	9.1	9.0	9.5	0.5	14.5	**334 293**
M 8	0.5 – 3.0	11.1	11.0	11.5	0.5	16.0	**334 303**
	3.0 – 5.5	11.1	11.0	11.5	0.5	18.5	**334 304**

We reserve the right to amend specifications at any time.



Slim head
Round body
Open end
(holes not countersunk)

Material

Stainless steel
AISI 316 Cu 1.4578

Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	6.5	0.5	11.0	**–**
M 5	0.5 – 3.0	7.1	7.0	7.5	0.5	12.0	**334 286**
M 6	0.5 – 3.0	9.1	9.0	9.5	0.5	14.5	**334 295**
M 8	0.5 – 3.0	11.1	11.5	11.0	0.5	16.0	**334 306**

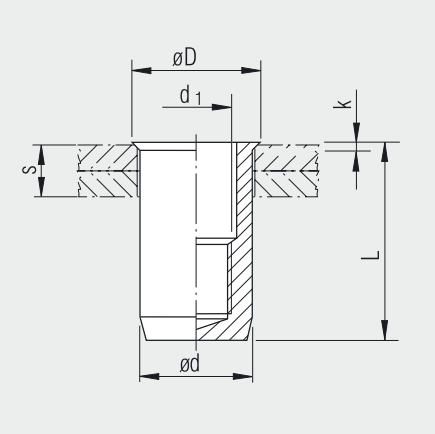
We reserve the right to amend specifications at any time.

RIV-TI® blind rivet nuts

Slim head
Round body
Closed end
(holes not countersunk)

Material

Steel
zinc, passivate



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** ■ **Steel**
M 4	0.5 – 3.0	6.1	6.0	6.5	0.5	15.0	**335 242**[1]
M 5	0.5 – 3.0	7.1	7.0	7.5	0.5	18.0	**335 252**[1]
M 6	0.5 – 3.0	9.1	9.0	9.5	0.5	21.5	**335 276**[1]
M 8	0.5 – 3.0	11.1	11.0	11.5	0.5	22.5	**335 306**[1]

[1] *Not standard stock - minimum quantity on request*

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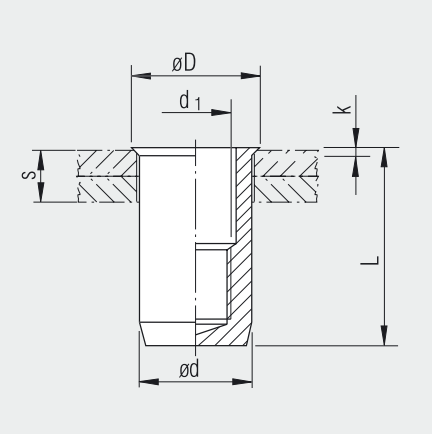


Slim head
Round body
Closed end
(holes not countersunk)

Material

Stainless steel
AISI 304 Cu 1.4567

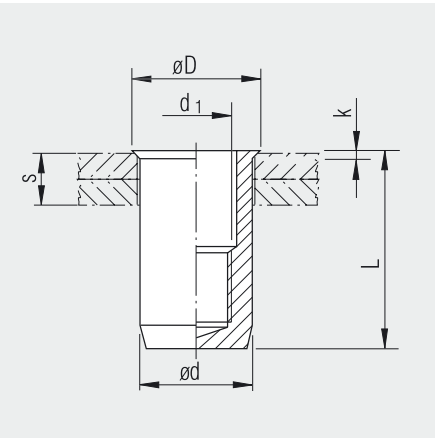
Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	6.5	0.5	15.5	**334 373**
M 5	0.5 – 3.0	7.1	7.0	7.5	0.5	18.0	**334 383**
M 6	0.5 – 3.0	9.1	9.0	9.5	0.5	21.5	**334 393**
M 8	0.5 – 3.0	11.1	11.0	11.5	0.5	24.0	**334 396**

We reserve the right to amend specifications at any time.

RIV-TI® blind rivet nuts

Slim head
Round body
Closed end
(holes not countersunk)

Extra-high corrosion resistance

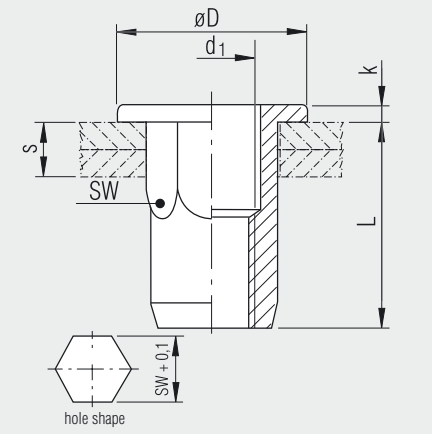


Material

Stainless steel
AISI 316 Cu 1.4578

Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 5	0.5 – 3.0	7.1	7.0	7.5	0.5	18.0	**334 254**
M 6	0.5 – 3.0	9.1	9.0	9.5	0.5	21.5	**334 395**
M 8	0.5 – 3.0	11.1	11.0	11.5	0.5	24.0	**334 845**

We reserve the right to amend specifications at any time.



Flat head
Part Hex body
Open end

Material

Stainless steel
AISI 304 Cu 1.4567

Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	9.0	1.0	11.0	**334 135**
M 5	0.5 – 3.0	7.1	7.0	10.0	1.0	11.5	**334 155**
M 6	0.5 – 3.0	9.1	9.0	12.0	1.5	14.5	**334 175**
M 8	0.5 – 3.0	11.1	11.0	15.0	1.5	16.0	**334 185**

We reserve the right to amend specifications at any time.

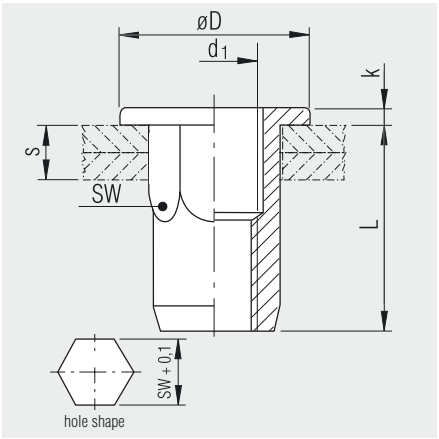
RIV-TI® blind rivet nuts

Flat head
Part Hex body
Open end

Material

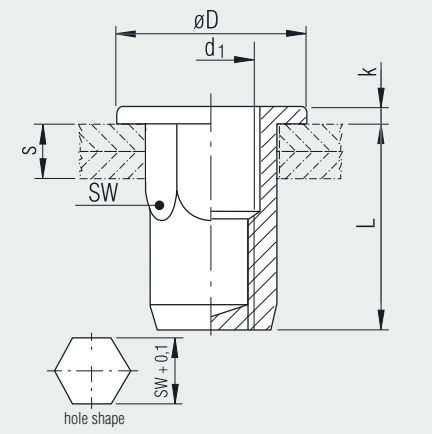
Stainless steel
AISI 316 Cu 1.4578

Extra-high corrosion resistance



Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	9.0	1.0	11.0	**–**
M5	0.5 – 3.0	7.1	7.0	10.0	1.0	11.5	**334 428**
M6	0.5 – 3.0	9.1	9.0	12.0	1.5	14.5	**334 423**
M8	0.5 – 3.0	11.1	11.0	15.0	1.5	16.0	**334 424**

We reserve the right to amend specifications at any time.



Flat head
Part Hex body
Closed end

Material

Stainless steel
AISI 304 Cu 1.4567

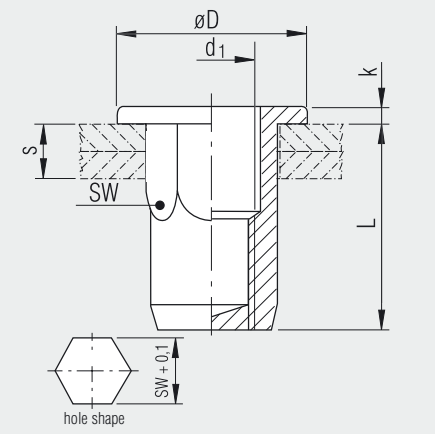
Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	9.0	1.0	15.0	**334 425**
M 5	0.5 – 3.0	7.1	7.0	10.0	1.0	17.5	**334 427**
M 6	0.5 – 3.0	9.1	9.0	12.0	1.5	21.5	**334 429**
M 8	0.5 – 3.0	11.1	11.0	15.0	1.5	23.5	**334 431**

We reserve the right to amend specifications at any time.

RIV-TI® blind rivet nuts

Flat head
Part Hex body
Closed end

Extra-high corrosion resistance

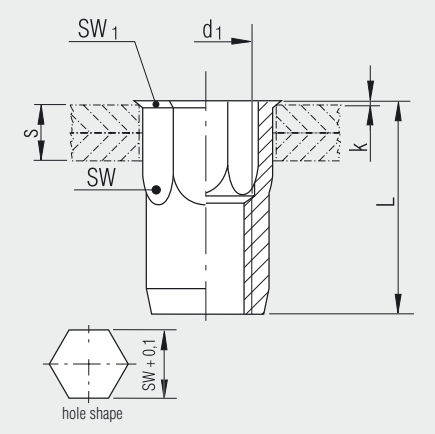


Material

Stainless steel
AISI 316 Cu 1.4578

Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M5	0.5 – 3.0	7.1	7.0	10.0	1.0	17.5	**334 443**
M6	0.5 – 3.0	9.1	9.0	12.0	1.5	21.5	**334 446**
M8	0.5 – 3.0	11.1	11.0	15.0	1.5	23.5	**334 447**

We reserve the right to amend specifications at any time.



Slim head
Part Hex body
Open end

Material

Stainless steel
AISI 304 Cu 1.4567

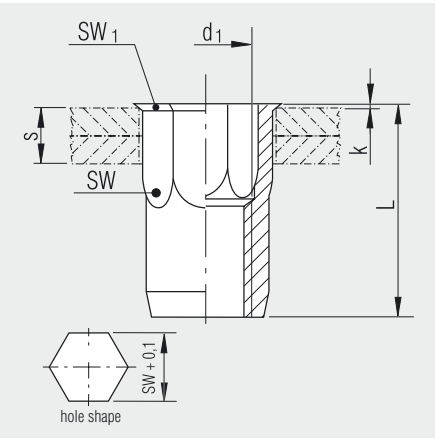
Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW_1 [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	6.5	0.5	11.0	**334 142**
M 5	0.5 – 3.0	7.1	7.0	7.5	0.5	12.0	**334 162**
M 6	0.5 – 3.0	9.1	9.0	9.5	0.5	14.5	**334 182**
	3.0 – 5.0	9.1	9.0	9.5	0.5	16.5	**334 183**
	5.0 – 7.0	9.1	9.0	9.5	0.5	18.5	**–**
M 8	0.5 – 3.0	11.1	11.0	11.5	0.5	16.0	**334 192**

We reserve the right to amend specifications at any time.

RIV-TI® blind rivet nuts

Slim head
Part Hex body
Open end

Extra-high corrosion resistance



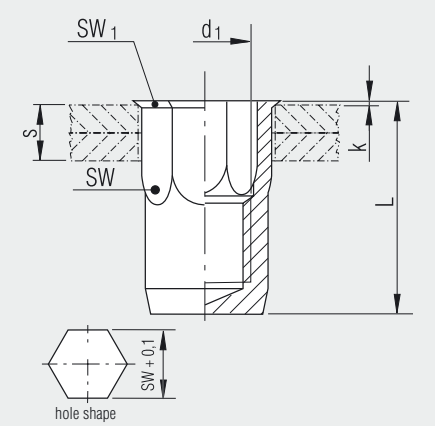
Material

Stainless steel
AISI 316 Cu 1.4578

EDELSTAHL Rostfrei

Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW_1 [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	6.5	0.5	11.0	**–**
M 5	0.5 – 3.0	7.1	7.0	7.5	0.5	12.0	**334 438**
M 6	0.5 – 3.0	9.1	9.0	9.5	0.5	14.5	**334 433**
M 8	0.5 – 3.0	11.1	11.0	11.5	0.5	16.0	**334 435**

We reserve the right to amend specifications at any time.



Slim head
Part Hex body
Closed end

Material

Stainless steel
AISI 304 Cu 1.4567

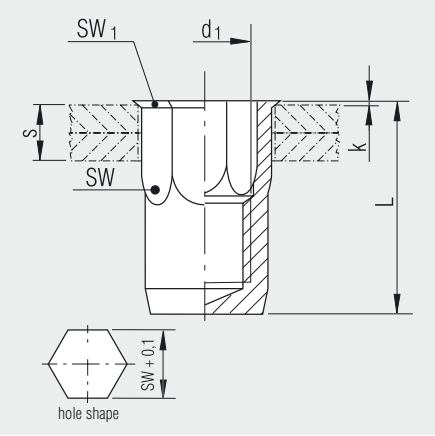
Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW_1 [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 4	0.5 – 2.0	6.1	6.0	6.5	0.5	15.5	**334 421**
M 5	0.5 – 3.0	7.1	7.0	7.5	0.5	18.0	**334 460**
	3.0 – 5.0	7.1	7.0	7.5	0.5	20.5	**334 461**
M 6	0.5 – 3.0	9.1	9.0	9.5	0.5	21.5	**334 462**
	3.0 – 5.0	9.1	9.0	9.5	0.5	23.5	**334 463**
M 8	0.5 – 3.0	11.1	11.0	11.5	0.5	24.0	**334 466**
	3.0 – 5.0	11.1	11.0	11.5	0.5	26.5	**334 467**

We reserve the right to amend specifications at any time.

RIV-TI® blind rivet nuts

Slim head
Part Hex body
Closed end

Extra-high corrosion resistance



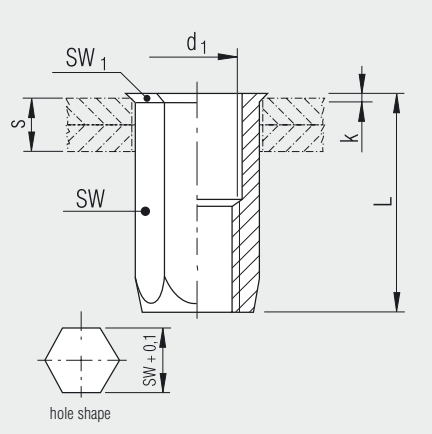
Material

Stainless steel
AISI 316 Cu 1.4578

EDELSTAHL Rostfrei

Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW_1 [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Stainless steel**
M 5	0.5 – 3.0	7.1	7.0	7.5	0.5	18.0	**334 437**
M 6	0.5 – 3.0	9.1	9.0	9.5	0.5	21.5	**334 439**
M 8	0.5 – 3.0	11.1	11.0	11.5	0.5	24.0	**334 441**

We reserve the right to amend specifications at any time.



Slim head
Hexagon body
Open end

Material

Steel
zinc, passivate

Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW_1 [mm]	Head height k [mm]	Body length L [mm]	**Part No.** ■ **Steel**
M 4	0.5 – 2.0	6.1	6.0	6.6	0.6	11.0	**339 322**
M 5	0.5 – 3.0	7.1	7.0	7.7	0.6	14.0	**339 362**
	3.0 – 5.5	7.1	7.0	7.7	0.6	16.5	**339 363**[1]
M 6	0.5 – 3.0	9.1	9.0	9.8	0.7	16.0	**339 811**
	3.0 – 5.5	9.1	9.0	9.8	0.7	18.5	**339 812**[1]
M 8	0.5 – 3.0	11.1	11.0	11.8	0.7	18.0	**339 957**
	3.0 – 5.5	11.1	11.0	11.8	0.7	20.5	**339 959**
M 10	0.8 – 3.5	13.1	13.0	13.8	0.7	23.0	**339 991**

[1] *Not standard stock - minimum quantity on request*

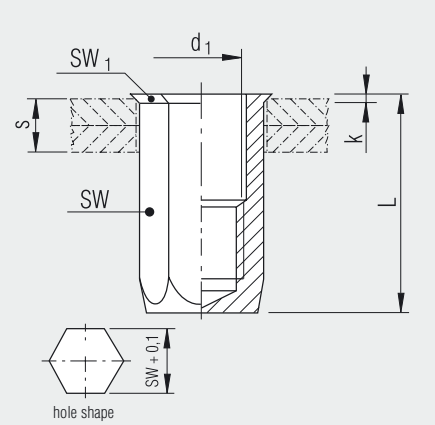
We reserve the right to amend specifications at any time.

RIV-TI® blind rivet nuts

Slim head
Hexagon body
Closed end

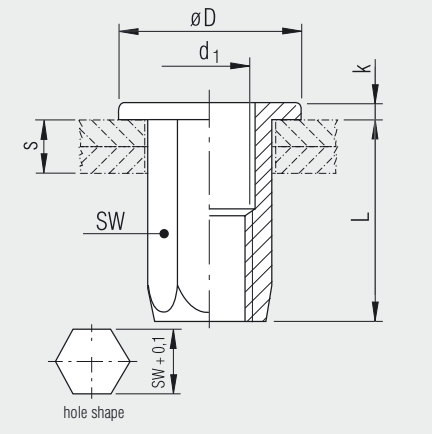
Material

Steel
zinc, passivate



Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW_1 [mm]	Head height k [mm]	Body length L [mm]	**Part No.** ■ **Steel**
M 4	0.5 – 2.0	6.1	6.0	6.6	0.6	15.5	**339 422**
M 5	0.5 – 3.0	7.1	7.0	7.7	0.7	20.0	**339 462**
M 6	0.5 – 3.0	9.1	9.0	9.8	0.7	22.0	**339 911**
M 8	0.5 – 3.0	11.1	11.0	11.8	0.7	25.0	**339 967**

We reserve the right to amend specifications at any time.



Flat head
Hexagon body
Open end

Material

Steel
zinc, passivate

Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** ■ **Steel**
M 4	0.5 – 2.0	6.1	6.0	9.0	1.0	10.0	**339 222**
M 5	0.5 – 3.0	7.1	7.0	10.0	1.0	13.0	**339 262**
M 6	0.5 – 3.0	9.1	9.0	13.0	1.5	14.5	**339 711**
	3.0 – 5.5	9.1	9.0	13.0	1.5	16.5	**339 713**
M 8	0.5 – 3.0	11.1	11.0	16.0	1.5	16.5	**339 857**
	3.0 – 5.5	11.1	11.0	16.0	1.5	19.0	**339 859**
	5.5 – 8.0	11.1	11.0	16.0	1.5	22.0	**339 860**
M 10	0.8 – 3.5	13.1	13.0	19.0	2.0	21.0	**339 987**
	3.5 – 6.0	13.1	13.0	19.0	2.0	23.5	**339 989**[1]
M 12[2]	1.0 – 4.0	16.1	16.0	23.0	2.0	25.0	**339 998**

[1] *Not standard stock - minimum quantity on request*
[2] *Part Hex body*

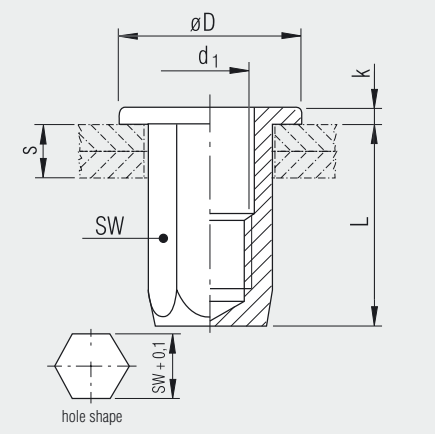
We reserve the right to amend specifications at any time.

RIV-TI® blind rivet nuts

Flat head
Hexagon body
Closed end

Material

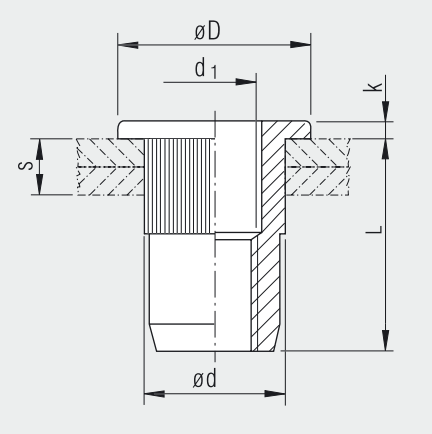
Steel
zinc, passivate



Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** ■ **Steel**
M 4	0.5 – 2.0	6.1	6.0	9.0	1.0	14.5	**339 202**[1]
M 5	0.5 – 3.0	7.1	7.0	10.0	1.0	19.0	**339 242**
	3.0 – 5.5	7.1	7.0	10.0	1.0	21.5	**339 243**[1]
M 6	0.5 – 3.0	9.1	9.0	13.0	1.5	21.5	**339 691**[1]
	3.0 – 5.5	9.1	9.0	13.0	1.5	23.5	**339 693**[1]
M 8	0.5 – 3.0	11.1	11.0	16.0	1.5	24.5	**339 837**
	3.0 – 5.5	11.1	11.0	16.0	1.5	27.0	**339 838**[1]
M 10	0.8 – 3.5	13.1	13.0	19.0	2.0	31.0	**339 970**[1]
	3.0 – 6.0	13.1	13.0	19.0	2.0	33.5	**339 971**

[1] *Not standard stock - minimum quantity on request*

We reserve the right to amend specifications at any time.



Flat head
Raised spline round body
Open end

Material

Steel
zinc, passivate

Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Steel**
M 4	0.5 – 3.0	6.5	6.3	10.0	0.8	10.8	**337 900**
	3.0 – 4.5	6.5	6.3	10.0	0.8	12.3	**337 901**[1]
M 5	0.5 – 3.0	7.5	7.3	11.0	1.0	12.0	**337 905**
	3.0 – 5.5	7.5	7.3	11.0	1.0	15.0	**337 906**
M 6	0.5 – 3.0	9.5	9.3	13.0	1.5	14.5	**337 910**
	3.0 – 5.5	9.5	9.3	13.0	1.5	16.5	**337 911**
M 8	0.5 – 3.0	11.6	11.4	16.0	1.5	16.0	**337 915**
	3.0 – 5.5	11.6	11.4	16.0	1.5	18.5	**337 916**
M 10	0.8 – 3.5	13.1	12.9	18.5	2.3	19.8	**337 920**
	3.5 – 6.0	13.1	12.9	18.5	2.3	22.8	**337 921**

[1] *Not standard stock - minimum quantity on request*

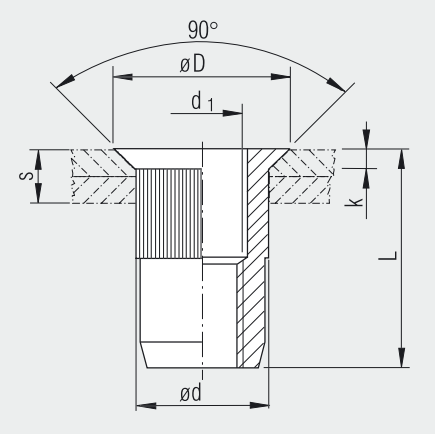
We reserve the right to amend specifications at any time.

RIV-TI® blind rivet nuts

Countersunk head
Raised spline round body
Open end

Material

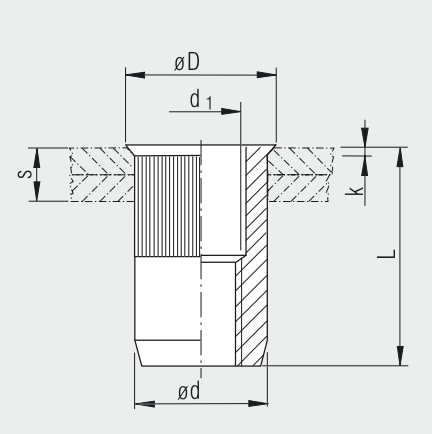
Steel
zinc, passivate



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** ■ **Steel**
M 4	1.7 – 3.5	6.5	6.3	9.0	1.5	11.5	**337 930**[1]
	3.5 – 5.0	6.5	6.3	9.0	1.5	13.0	**337 931**[1]
M 5	1.7 – 4.0	7.5	7.3	10.0	1.5	13.0	**337 935**
	4.0 – 6.5	7.5	7.3	10.0	1.5	16.0	**337 936**[1]
M 6	1.7 – 4.5	9.5	9.3	12.0	1.5	17.0	**337 940**
	4.5 – 6.5	9.5	9.3	12.0	1.5	19.0	**337 941**[1]
M 8	1.7 – 4.5	11.6	11.4	14.0	1.5	19.0	**337 945**
	4.5 – 6.5	11.6	11.4	14.0	1.5	21.0	**337 946**
M 10	1.7 – 4.5	13.1	12.9	15.4	1.5	21.0	**337 950**
	4.5 – 6.5	13.1	12.9	15.4	1.5	23.0	**337 951**[1]

[1] *Not standard stock - minimum quantity on request*

We reserve the right to amend specifications at any time.



Slim head
Raised spline round body
Open end
(holes not countersunk)

Material

Steel
zinc, passivate

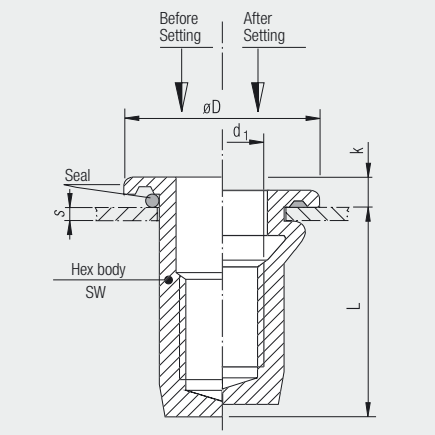
Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** ■ **Steel**
M 4	0.5 – 3.0	6.1	6.0	7.0	0.6	10.0	**337 964**
M 5	0.5 – 3.0	7.1	7.0	8.0	0.6	11.5	**337 963**
M 6	0.5 – 3.0	9.1	9.0	10.0	0.6	14.0	**337 961**
M 8	0.5 – 3.0	11.1	11.0	12.0	0.6	15.5	**337 851**

We reserve the right to amend specifications at any time.

RIV-TI® blind rivet nuts with seal

Material

Steel
zinc, passivate
Seal: NBR 70, black



Thread d_1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No. ■ Steel
M 5	0.5 – 3.0	7.1	7.0	12.5	1.5	19.0	**339 245**[1]
M 6	0.5 – 3.0	9.1	9.0	15.0	1.5	21.5	**339 695**[1]
M 8	0.5 – 3.0	11.1	11.0	20.0	2.0	26.7	**339 850**[1]

[1] *Not standard stock - minimum quantity on request*

We reserve the right to amend specifications at any time.

Installation and strength data

Thread	Grip range [mm]	At grip range [mm]	Aluminium				Steel				Stainless steel			
			Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque [Nm]	Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque [Nm]	Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque [Nm]
M 3	0.5 – 2.0	1.0	2000	2.0	3750	1.0	4000	2.5	>5000	1.2	–	–	–	–
		2.0	2600	1.5	3250	1.0	4750	2.0	>5000	1.2	–	–	–	–
	2.0 – 3.0	2.0	1850	1.5	3900	1.0	3700	2.5	>5000	1.2	–	–	–	–
		3.0	2050	1.0	3968	1.0	4750	2.0	>5000	1.2	–	–	–	–
M 4	0.5 – 2.0	1.0	–	–	–	–	–	–	–	–	4900	2.0	9000	2.8
		2.0	–	–	–	–	–	–	–	–	5500	1.5	9000	2.8
	0.5 – 3.0	1.0	2100	3.0	5170	2.0	4300	2.5	>8000	2.8	–	–	–	–
		3.0	2430	1.0	4330	2.0	5650	1.5	>8000	2.8	–	–	–	–
	2.0 – 3.5	2.0	–	–	–	–	–	–	–	–	5500	2.6	9000	2.8
		3.5	–	–	–	–	–	–	–	–	6000	1.7	9000	2.8
	3.0 – 4.5	3.0	2050	2.8	4838	2.0	4200	2.5	>8000	2.8	–	–	–	–
		4.5	2875	1.5	4421	2.0	5000	1.5	>8000	2.8	–	–	–	–
M 5	0.5-3.0	1.0	3050	3.5	6300	4.5	6150	3.5	12240	5.5	6500	2.7	11200	5.5
		3.0	3650	2.0	6000	4.5	7200	2.5	9600	5.5	7300	1.7	8500	5.5
	3.0-5.0	3.0	–	–	–	–	–	–	–	–	6500	4.0	>16500	5.5
		5.0	–	–	–	–	–	–	–	–	8000	2.0	16000	5.5
	3.0-5.5	3.0	3000	3.5	6450	4.5	5750	4.0	11800	5.5	–	–	–	–
		5.5	4300	1.5	5525	4.5	9650	2.0	10300	5.25	–	–	–	–
M 6	0.5 – 3.0	1.0	4500	3.0	11000	8.0	9400	4.0	21200	9.5	11850	4.0	>23000	9.5
		3.0	5750	2.0	10000	8.0	12000	3.0	18500	9.5	14460	3.0	18800	9.5
	3.0 – 5.0	3.0	–	–	–	–	–	–	–	–	13500	4.5	>24000	9.5
		5.0	–	–	–	–	–	–	–	–	15000	2.8	>24000	9.5
	3.0 – 5.5	3.0	4500	3.5	11000	8.0	9000	3.5	22700	9.5	–	–	–	–
		5.5	6100	1.8	10000	8.0	11000	2.0	19700	9.5	–	–	–	–
	5.0 – 7.0	5.0	–	–	–	–	–	–	–	–	–	–	–	–
		7.0	–	–	–	–	–	–	–	–	–	–	–	–
	5.5 – 8.0	5.5	4950	4.7	9160	8.0	8700	4.0	19900	9.5	–	–	–	–
		8.0	5400	2.0	8200	8.0	11750	2.5	17200	9.5	–	–	–	–
M 8	0.5 – 3.0	1.0	5000	3.0	14900	17.0	11500	4.0	30400	23.0	14100	4.2	33250	24.0
		3.0	6600	2.0	14000	17.0	13750	2.5	26100	23.0	16000	2.6	25800	24.0
	3.0 – 5.5	3.0	5400	4.0	15500	17.0	11500	4.0	32500	23.0	–	–	–	–
		5.5	7400	2.0	11200	17.0	15500	2.5	31900	23.0	–	–	–	–
	5.5 – 8.0	5.5	5900	4.0	16100	17.0	10700	4.0	32400	23.0	–	–	–	–
		8.0	7850	2.0	13600	17.0	14700	2.5	26500	23.0	–	–	–	–
M 10	0.8 – 3.0	1.0	–	–	–	–	–	–	–	–	14500	3.5	>45000	–
		3.0	–	–	–	–	–	–	–	–	18500	2.5	>45000	–
	0.8 – 3.5	1.0	6750	4.0	22100	27.0	13600	4.5	39600	46.0	–	–	–	–
		3.5	9000	2.5	17700	27.0	17000	2.5	32400	46.0	–	–	–	–
	3.0 – 5.0	3.0	–	–	–	–	–	–	–	–	14500	3.5	>39500	–
		5.0	–	–	–	–	–	–	–	–	18500	2.5	>37000	–
	3.5 – 6.0	3.5	9000	5.0	25250	27.0	14900	4.0	42300	46.0	–	–	–	–
		6.0	13000	3.0	23000	27.0	17900	2.5	31700	46.0	–	–	–	–
	0.8 – 3.5	1.0	–	–	–	–	13500	4.5	40500	46.0	–	–	–	–
		3.5	–	–	–	–	16100	2.5	36100	46.0	–	–	–	–
	3.5 – 6.0	3.5	–	–	–	–	15900	5.5	48000	46.0	–	–	–	–
		6.0	–	–	–	–	20400	3.0	37500	46.0	–	–	–	–

Continue next page

Continued

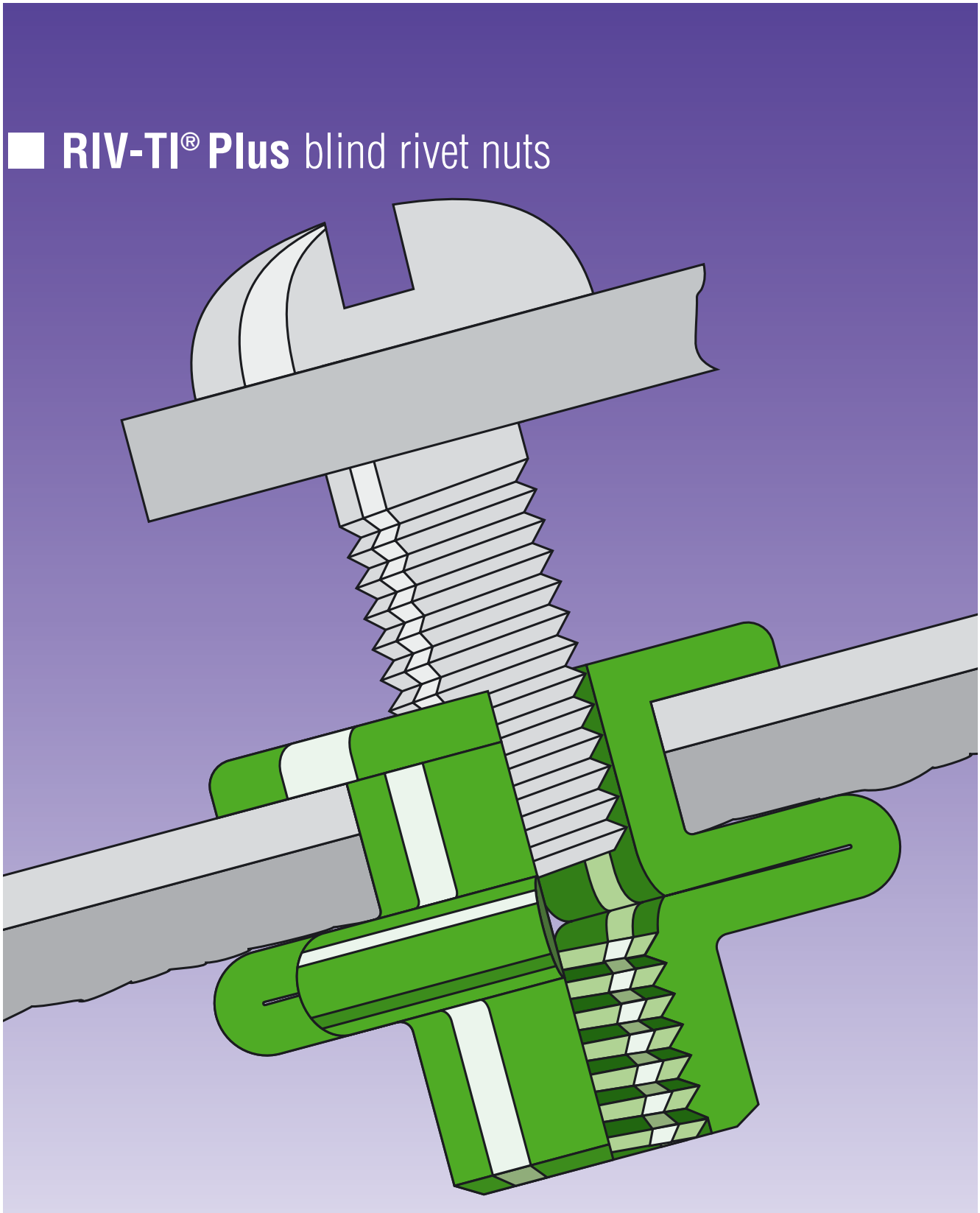
Installation and strength data

Thread	Grip range [mm]	At grip range [mm]	Aluminium				Steel				Stainless steel			
			Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque [Nm]	Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque [Nm]	Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque [Nm]
M 12	1.0 – 4.0	1.0	–	–	–	–	19500	5.5	>50000	80.0	–	–	–	–
		4.0	–	–	–	–	25000	4.0	>50000		–	–	–	–
	4.0 – 7.0	4.0	–	–	–	–	19500	5.5	>50000	80.0	–	–	–	–
		7.0	–	–	–	–	25000	4.0	>50000		–	–	–	–

Installation force: Force (in Newton) required to upset the blind rivet nut
Installation stroke: Stroke of the setting tool (in mm) required for the specified grip range
Thread load: Maximum load (in Newton) for the thread on the inserted blind rivet nut
Torque: Maximum load (in Newton meter) for the thread on the inserted blind rivet nut
All values given are for guidance only. The user must make adjustments or determine values for the application.

We reserve the right to amend specifications at any time.

RIV-TI® Plus blind rivet nuts



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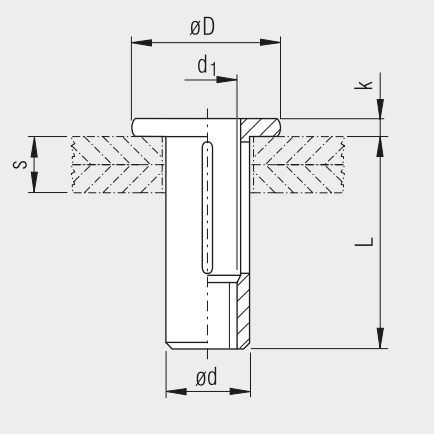
Flat head

Blind rivet nut and threaded insert in one. Especially suited for high strength applications and suitable for soft materials due to the large setting head and blind-side footprint. Simple installation from one side.

Material

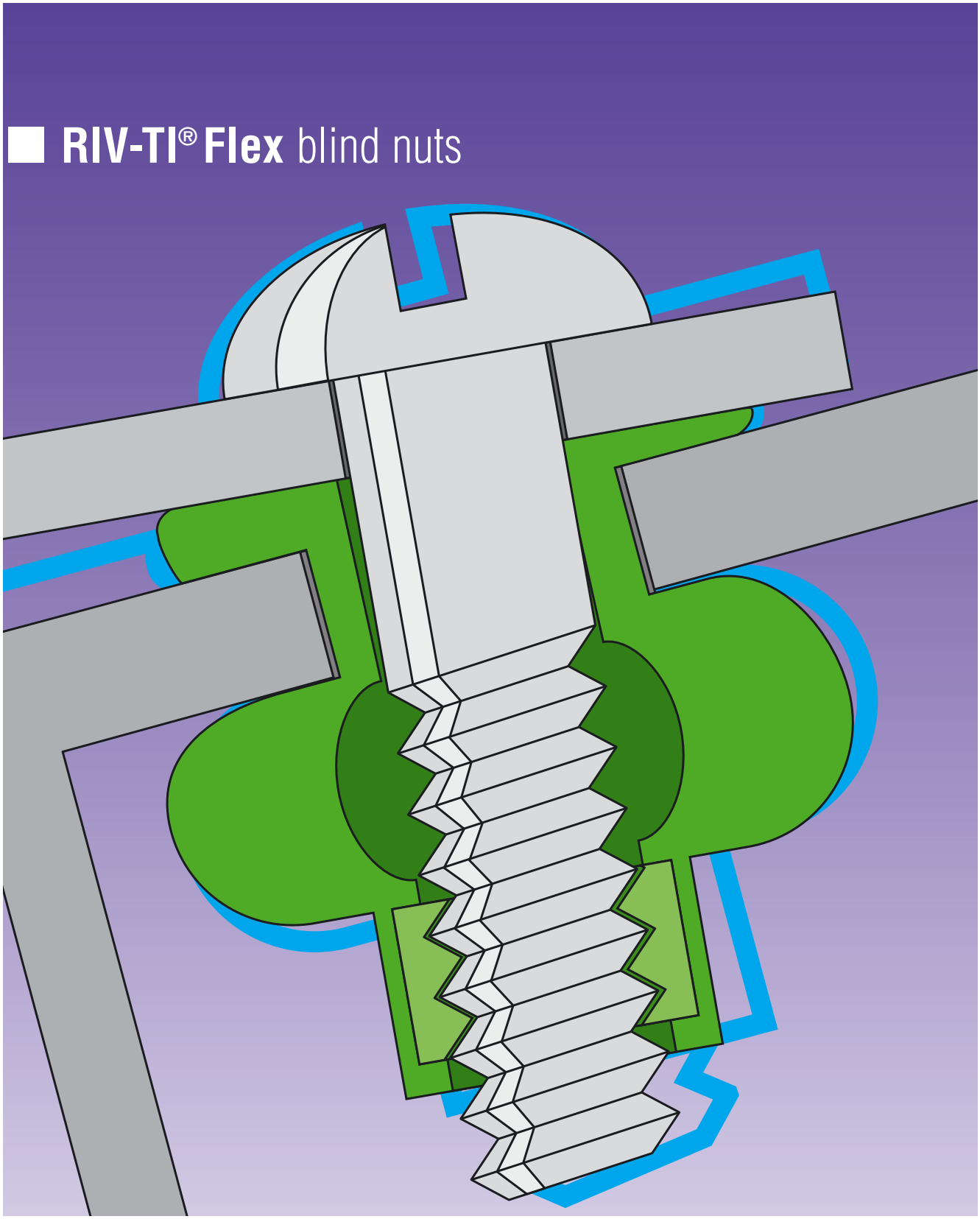
Steel zinc



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Steel, zinc Part No.
M 4	0.50 – 3.80	6.12 – 6.25	6.1	11.1	1.0	16.7	**331 805**
	3.80 – 6.85	6.12 – 6.25	6.1	11.1	1.0	19.8	**331 806**
M 5	0.50 – 4.45	7.47 – 7.62	7.4	12.7	1.0	21.0	**331 800**
	4.45 – 8.10	7.47 – 7.62	7.4	12.7	1.0	23.8	**331 801**
M 6	0.50 – 7.10	8.79 – 8.93	8.7	15.9	1.5	25.4	**331 810**
	7.10 – 12.70	8.79 – 8.93	8.7	15.9	1.5	31.3	**331 811**
M 8	0.50 – 7.10	11.10 – 11.30	11.1	19.1	1.6	29.0	**331 815**
	7.10 – 12.70	11.10 – 11.30	11.1	19.1	1.6	34.9	**331 816**
M 10	0.50 – 7.10	13.06 – 13.26	13.0	22.2	2.2	30.9	**331 820**
	7.10 – 12.70	13.06 – 13.26	13.0	22.2	2.2	36.5	**331 821**

We reserve the right to amend specifications at any time.

RIV-TI® Flex blind nuts

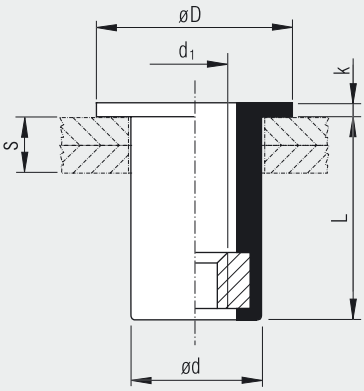


RIV-TI® Flex blind nuts

Flat head
Round body, open end

Material

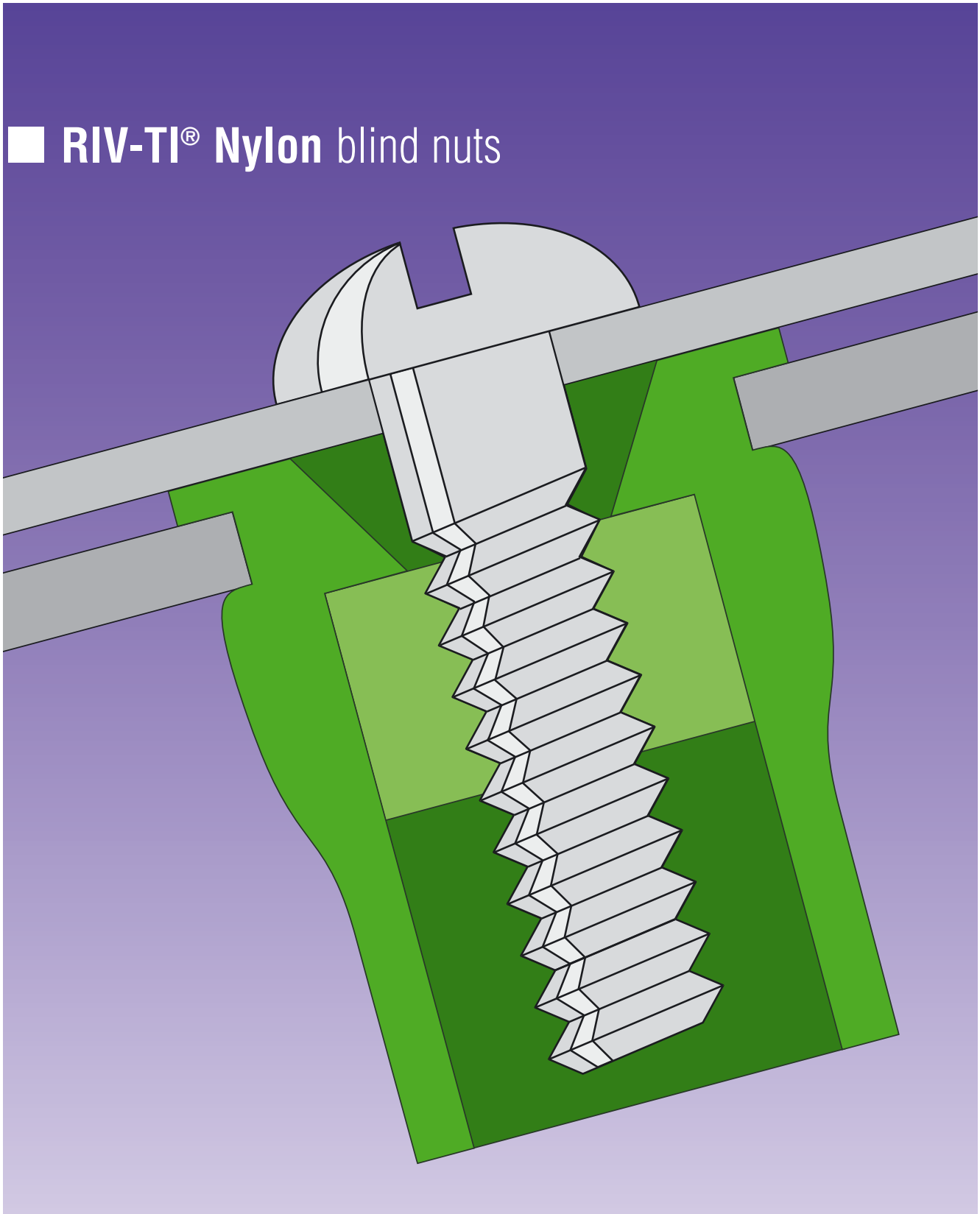
EPDM
black, stainless steel threaded insert (non-conductive available on request)



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Installation torque [Nm]	**Part No.**
M 3	0.4 – 4.0	8.0	7.9	11.0	1.4	11.2	0.5	**331 331**
M 4	0.4 – 4.0	8.0	7.9	11.0	1.4	11.2	0.4	**331 340**
M 5	0.4 – 4.9	9.7	9.6	12.7	0.9	13.2	0.6	**331 350**
	0.8 – 5.8	9.7	9.6	19.0	2.0	16.0	0.6	**331 354**
	0.9 – 5.9	9.7	9.6	14.0	1.0	16.0	0.6	**331 351**
M 6	0.4 – 2.8	12.8	12.7	16.0	1.3	14.7	1.0	**331 360**
	0.8 – 4.7	12.8	12.7	19.0	4.8	16.3	1.0	**331 365**
	6.4 – 11.5	12.8	12.7	16.3	2.0	24.7	1.0	**331 362**
M 8	0.4 – 4.0	16.0	15.9	22.1	3.2	15.1	1.5	**331 380**

We reserve the right to amend specifications at any time.

RIV-TI® Nylon blind nuts



RIV-TI® Nylon blind nuts

RIV-TI Nylon blind nuts are used on coated surfaces, soft and brittle materials and also on standard materials. They are made of a knurled aluminium threaded insert and a conical nylon retainer. The fastener is easily pressed into the hole by hand. A screw of suitable length pulls the threaded insert up into the plastic retainer until it is pressed into place in the application.

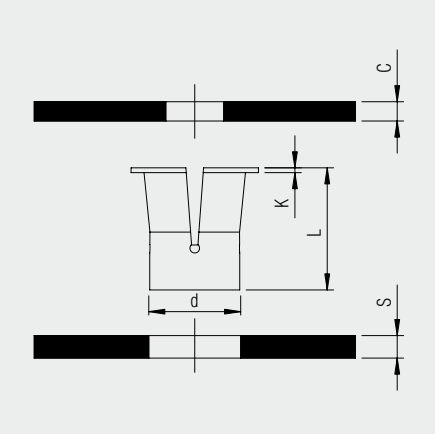
- Clean, fast installation; no special tools required
- The nylon retainer is held in the hole by friction
- Can be used in all materials
- High corrosion resistance
- The nylon material is non-conductive

Extremely flat head
Round body, open end

Material

Rivet body
Nylon white

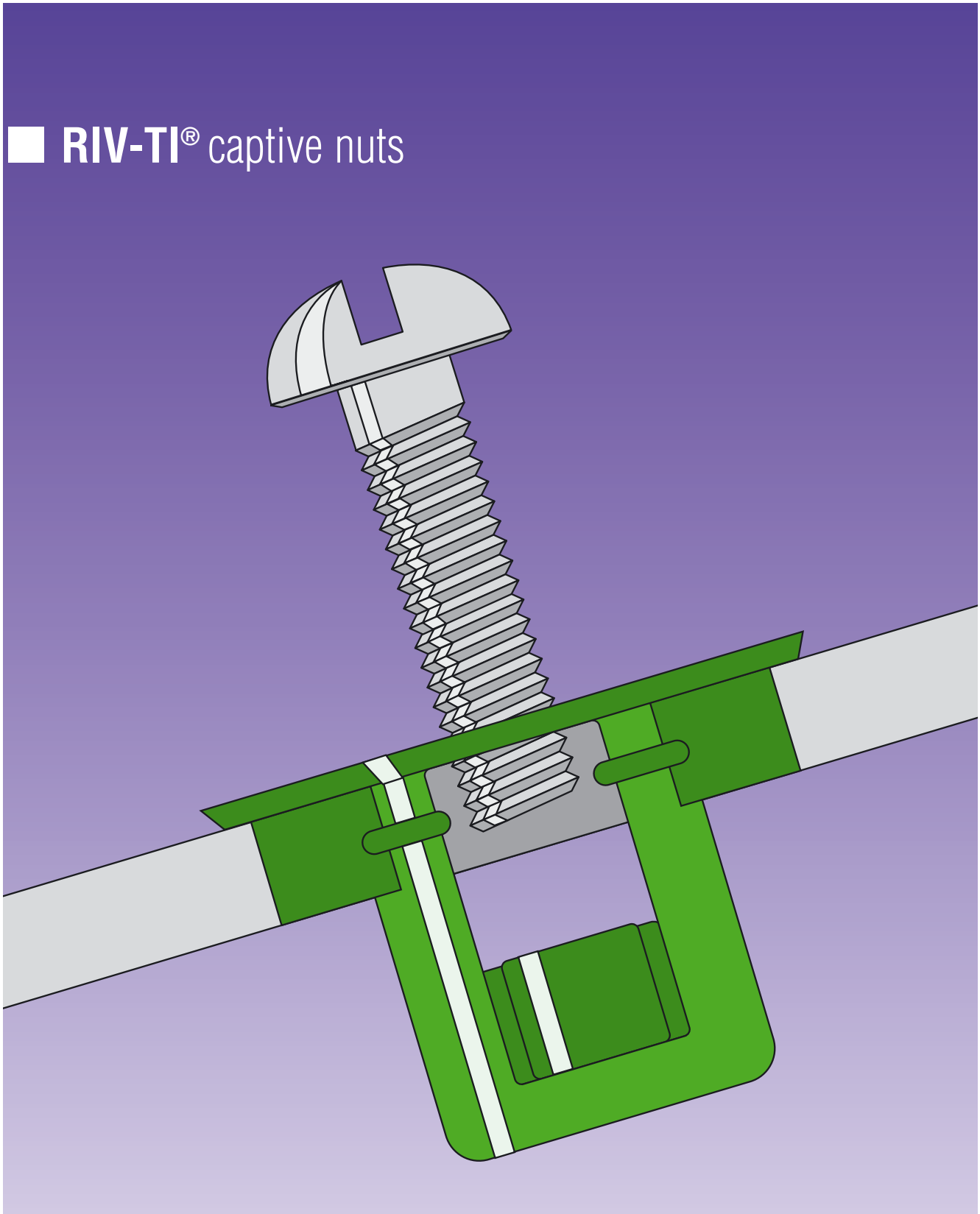
Thread
Aluminium



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Body length L [mm]	Head height K [mm]	Screw length *min.* [mm]	Pull-out force *max.* [N]	Installation torque *max.* [Nm]	**Part No.**
M 2.5	0.8 - 1.2	6.4	6.3	8.0	0.75	8.0 + C	445	0.93	**331 602 000**
M 3	1.3 - 2.0	8.0	7.9	9.6	0.75	9.6 + C	623	1.23	**331 603 000**
M 4	2.1 - 2.4	10.3	10.1	12.7	0.75	12.7 + C	979	1.85	**331 604 000**
M 5	2.1 - 2.4	10.3	10.1	12.7	0.75	12.7 + C	979	2.47	**331 605 000**
M 6	2.5 - 3.2	12.7	12.5	15.9	0.75	15.9 + C	1223	3.08	**331 606 000**
M 8	3.3 - 4.0	14.3	14.1	19.0	0.75	19.0 + C	1424	6.17	**331 608 000**

We reserve the right to amend specifications at any time.

RIV-TI® captive nuts



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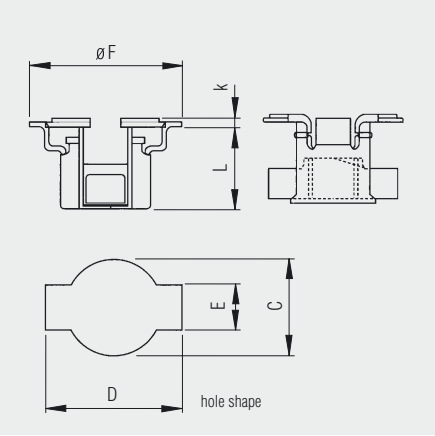
RIV-TI® captive nuts

Metal cage nut

- Fast installation
- Install from front
- Quarter turn to install
- Metal construction

Material

Steel



Thread d_1	Grip range s [mm]	Hole C [mm]	Hole D [mm]	Hole E [mm]	Head-ø F [mm]	Head height k [mm]	Length L [mm]	Colour	Part No.
M 6	0.5 – 3.7	10.2 – 10.4	14.5 – 14.7	4.4 – 4.6	17	0.5	10.5	–	**331 621 000**
M 8	0.5 – 4.4	14.3 – 14.5	22.0 – 22.2	6.5 – 6.7	24	0.8	14	–	**331 620 000**

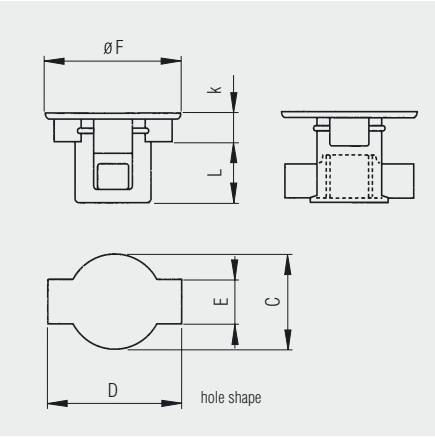
Nylon cage nut

- Fast installation
- Install from front
- Quarter turn to install

Material

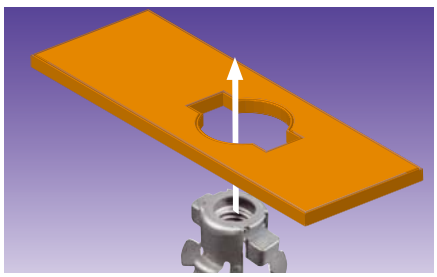
Nylon cage

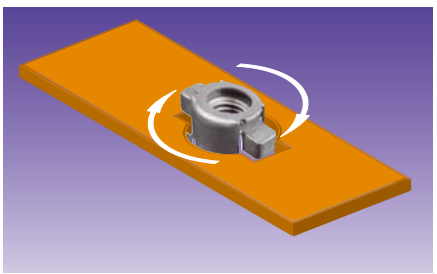
Steel nut

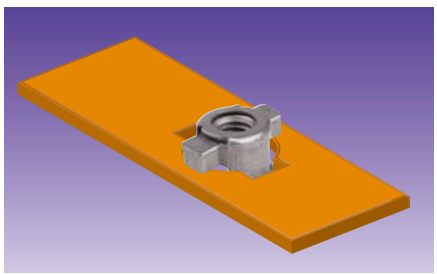


Thread d_1	Grip range s [mm]	Hole C [mm]	Hole D [mm]	Hole E [mm]	Head-ø F [mm]	Head height k [mm]	Length L [mm]	Colour	Part No.
M 6	0.5 – 3.6	11.2	18.2	–	22.6 x 15.2	0.8	11.8	natur	**331 622 000**
	0.5 – 5.5	10.5	15.0	4.5	18	0.8	12	natur	**331 623 000**
	0.5 – 5.5	12.0	18.0	4.5	21.5	1.5	16	natur	**331 624 000**

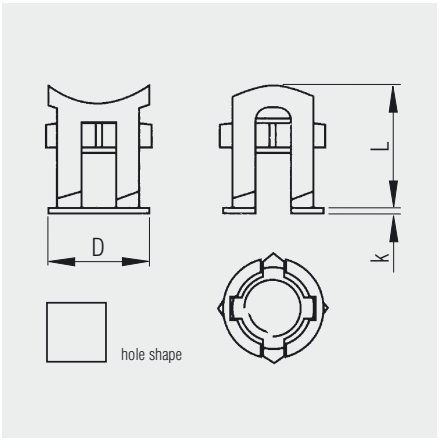
Other dimensions available.







We reserve the right to amend specifications at any time.



Cage nuts for 19˝ cabinets

- Fast installation
- Install from front
- Quarter turn to install

Material

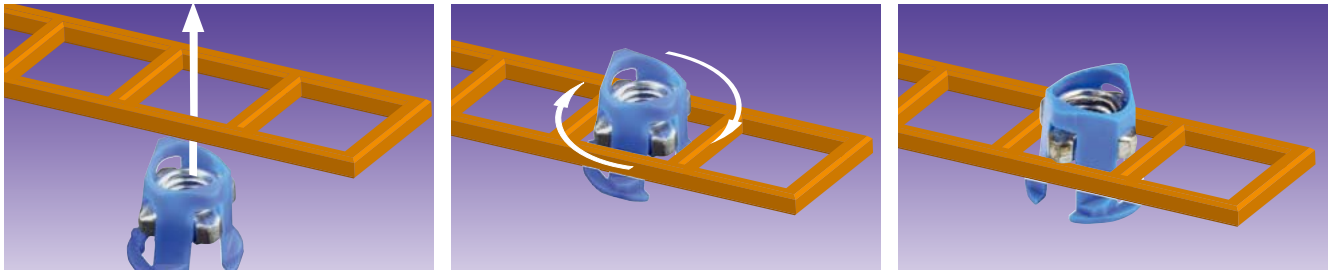
Nylon cage

Steel cage

Steel nut

Thread d_1	Grip range s [mm]	Square hole [mm]	Head D [mm]	Head height k [mm]	Length L [mm]	Colour	Cage material	Tensile strength N *max.*	Torque Nm ± 1 Nm Recommended	**Part No.**
M 6	0.5 – 3.1	9.5	ø 12.3	0.8	12	blue	Nylon	5000	6	**331 625 000**
M 5	0.5 – 3.1	9.5	9.0 x 11.7	0.5	13	silver	Steel	5000	3.5	**331 630 000**
M 6	0.5 – 3.1	9.5	9.0 x 11.7	0.5	13	silver	Steel	5000	6	**331 631 000**

Other dimensions available.

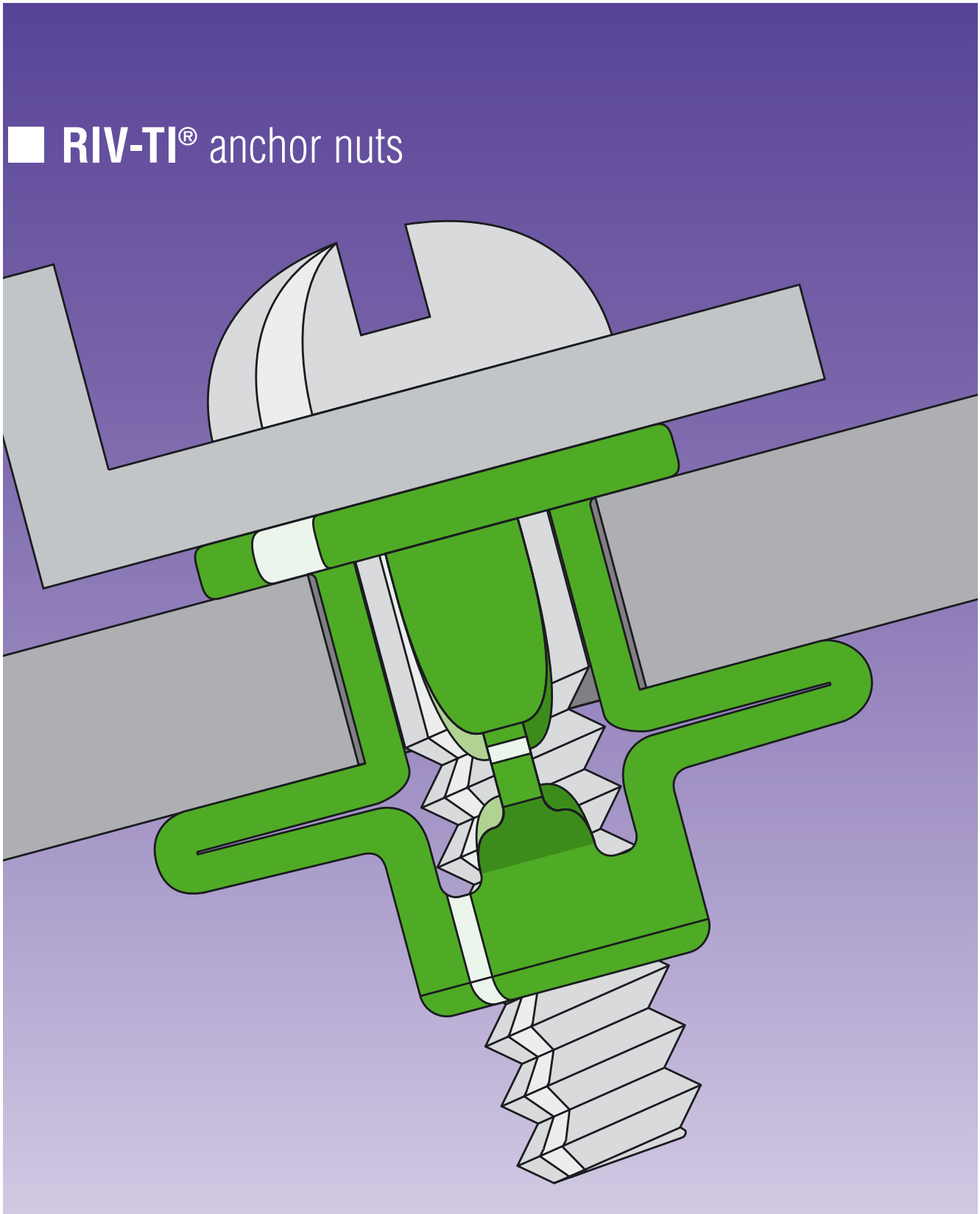


Please note that “Tensile strength” refers to the nut thread, and not application!
“Torque” refers to the nut thread, and not the application!

We reserve the right to amend specifications at any time.

NOTES

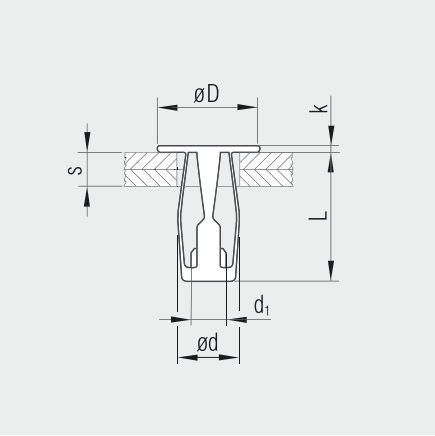
RIV-TI® anchor nuts



RIV-TI® anchor nuts

Material

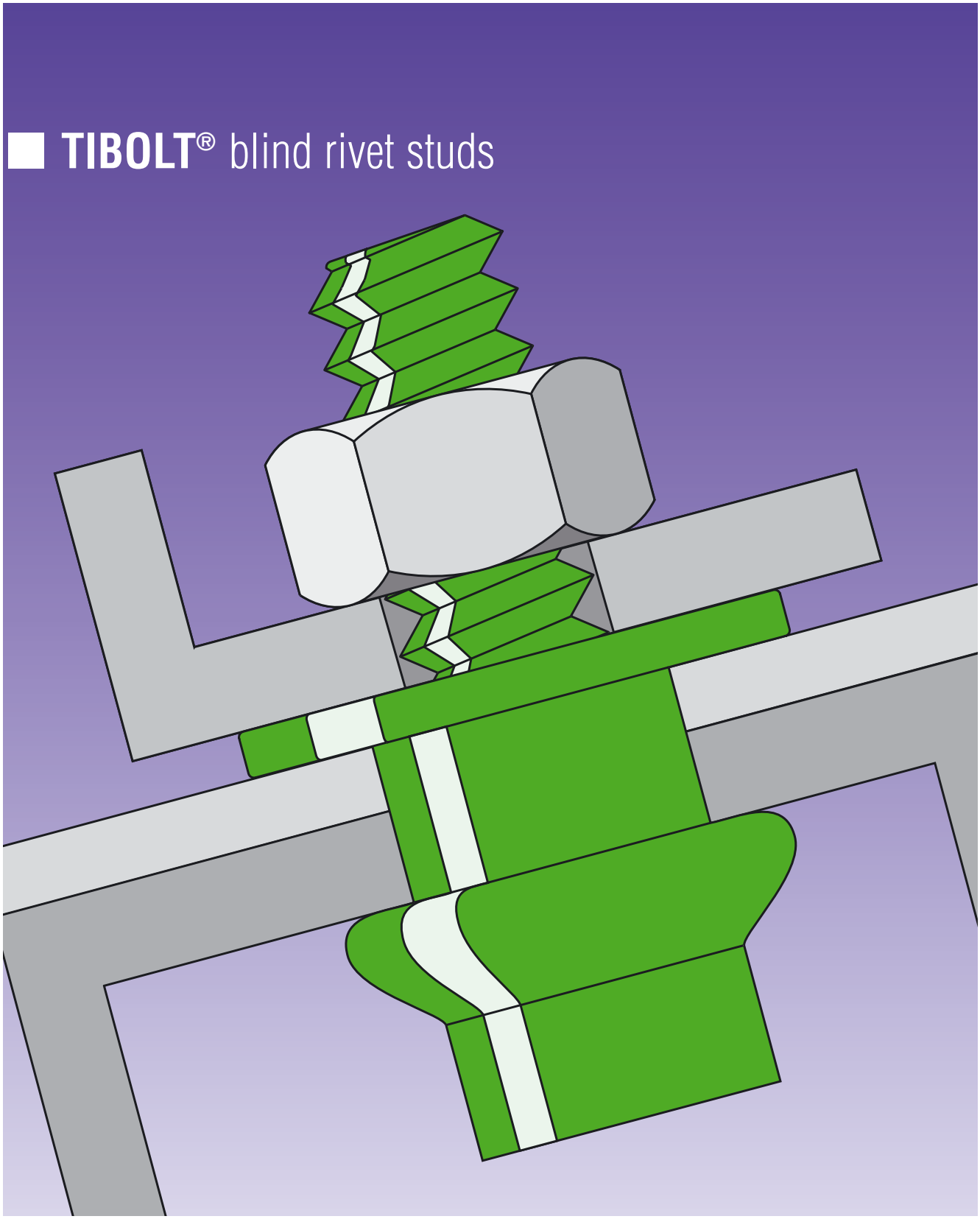
Steel zinc



Thread d_1	Grip range s [mm]	Hole-ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	**Part No.** **Steel**
M 4	0.4 – 4.8	8.2 – 8.4	8.1	11.9	1.8	14.8	**331 140**
M 5	0.4 – 4.8	9.8 – 10.1	9.7	13.5	1.8	16.3	**331 150**
M 6	0.4 – 4.8	11.2 – 11.4	11.1	15.9	1.8	16.7	**331 160**
	4.8 – 9.5	11.2 – 11.4	11.1	15.9	1.8	21.5	**331 161**

We reserve the right to amend specifications at any time.

TIBOLT® blind rivet studs



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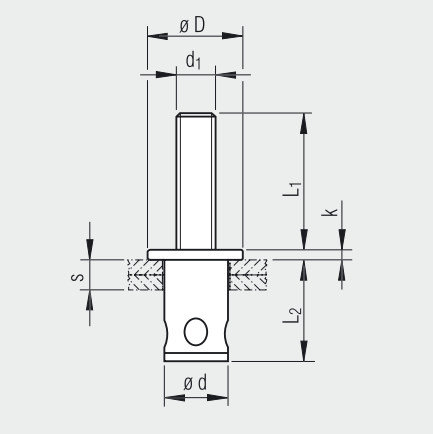
TIBOLT® blind rivet studs

Flat head

Material

Steel zinc



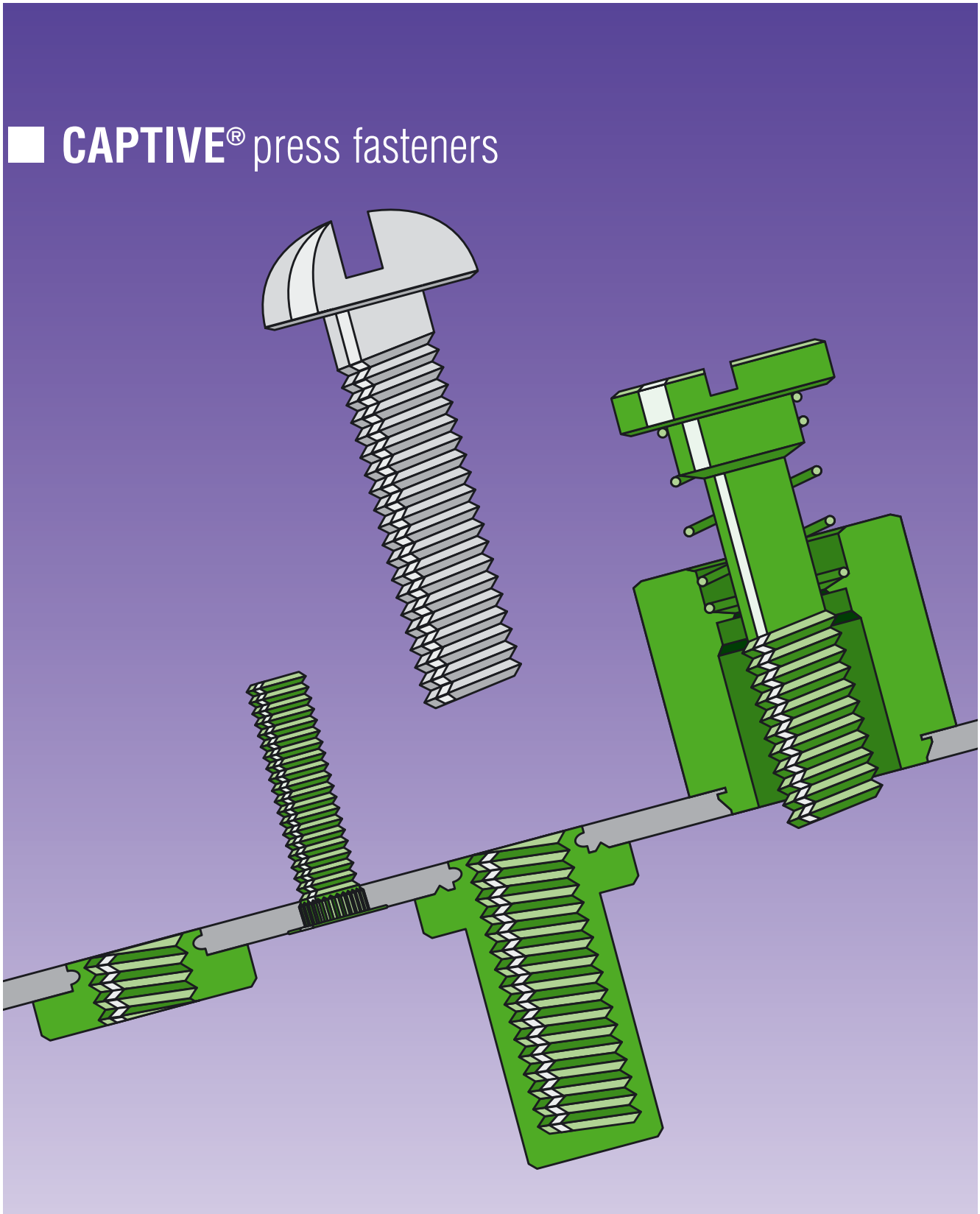
Thread d_1	Grip range s [mm]	Hole-ø [mm]	Thread length L_1[1] [mm]	Body-ø d *max* [mm]	Head-ø D [mm]	Head height k [mm]	Body length L_2 [mm]	**Part No.** ■ **Steel**
M 4	0.5 – 1.9	5.5	8	5.4	8.0	0.5	8.0	**332 402**
	2.0 – 3.0	5.5	8	5.4	8.0	0.5	9.0	**332 412**
	0.5 – 1.9	5.5	15	5.4	8.0	0.5	8.0	**332 405**
	2.0 – 3.0	5.5	15	5.4	8.0	0.5	9.0	**332 415**
M 5	0.5 – 1.9	6.6	10	6.5	9.0	0.75	9.0	**332 503**
	2.0 – 3.5	6.6	10	6.5	9.0	0.75	10.5	**332 513**
	0.5 – 1.9	6.6	15	6.5	9.0	0.75	9.0	**332 505**
	2.0 – 3.5	6.6	15	6.5	9.0	0.75	10.5	**332 515**
M 6	0.5 – 2.4	7.8	10	7.7	10.0	1.0	10.5	**332 603**
	2.5 – 4.0	7.8	10	7.7	10.0	1.0	12.0	**332 613**
	0.5 – 2.4	7.8	15	7.7	10.0	1.0	10.5	**332 605**
	2.5 – 4.0	7.8	15	7.7	10.0	1.0	12.0	**332 615**
M 8	0.5 – 2.9	9.9	15	9.8	12.0	1.5	12.5	**332 805**
	3.0 – 5.0	9.9	15	9.8	12.0	1.5	14.5	**332 815**
	0.5 – 2.9	9.9	20	9.8	12.0	1.5	12.5	**332 807**
	3.0 – 5.0	9.9	20	9.8	12.0	1.5	14.5	**332 817**

[1] *L1 = dimension varies depending on actual grip thickness and tool setting.*

Countersunk head 90° on request.

We reserve the right to amend specifications at any time.

CAPTIVE® press fasteners



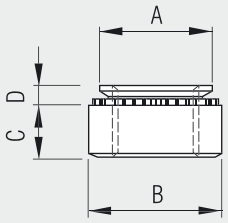
Press-in nuts for metals

Material

Steel zinc (C series)
Suitable for metal hardnesses up to HRB 80

Stainless steel (CS series)
Suitable for metal hardnesses up to HRB 70

EDELSTAHL Rostfrei



Thread	Hole-ø +0.08 -0.00 [mm]	Material thickness min [mm]	A max [mm]	B ±0.25 [mm]	C ±0.25 [mm]	D max [mm]	min [mm]	Steel Description	Steel Part No.	Stainless steel Description	Stainless steel Part No.
M 2	4.25	0.8	4.22	6.3	1.5	0.76	4.8	C M 2–0	–	CS M 2–0	–
		1.0	4.22	6.3	1.5	0.97	4.8	C M 2–1	**358 003**	CS M 2–1	–
		1.4	4.22	6.3	1.5	1.37	4.8	C M 2–2	**358 004**	CS M 2–2	–
		2.3	4.22	6.3	1.5	2.21	4.8	C M 2–3	–	CS M 2–3	–
M 2.5	4.25	0.8	4.22	6.3	1.5	0.76	4.8	C M 2.5–0	**358 006**	CS M 2.5–0	–
		1.0	4.22	6.3	1.5	0.97	4.8	C M 2.5–1	**358 007**	CS M 2.5–1	**358 051**
		1.4	4.22	6.3	1.5	1.37	4.8	C M 2.5–2	**358 008**	CS M 2.5–2	–
		2.3	4.22	6.3	1.5	2.21	4.8	C M 2.5–3	–	CS M 2.5–3	–
M 3	4.25	0.8	4.22	6.3	1.5	0.76	4.8	C M 3–0	**358 010**	CS M 3–0	**358 060**
		1.0	4.22	6.3	1.5	0.97	4.8	C M 3–1	**358 011**	CS M 3–1	**358 061**
		1.4	4.22	6.3	1.5	1.37	4.8	C M 3–2	**358 012**	CS M 3–2	**358 062**
		2.3	4.22	6.3	1.5	2.21	4.8	C M 3–3	–	CS M 3–3	–
M 3.5	4.75	0.8	4.73	7.1	1.5	0.76	5.6	C M 3.5–0	**358 015**	CS M 3.5–0	**358 065**
		1.0	4.73	7.1	1.5	0.97	5.6	C M 3.5–1	**358 016**	CS M 3.5–1	–
		1.4	4.73	7.1	1.5	1.37	5.6	C M 3.5–2	**358 017**	CS M 3.5–2	–
		2.3	4.73	7.1	1.5	2.21	5.6	C M 3.5–3	–	CS M 3.5–3	–
M 4	5.4	0.8	5.38	7.9	2.0	0.76	6.9	C M 4–0	**358 020**	CS M 4–0	**358 070**
		1.0	5.38	7.9	2.0	0.97	6.9	C M 4–1	**358 021**	CS M 4–1	**358 071**
		1.4	5.38	7.9	2.0	1.37	6.9	C M 4–2	**358 022**	CS M 4–2	**358 072**
		2.3	5.38	7.9	2.0	2.21	6.9	C M 4–3	**358 023**	CS M 4–3	**358 073**
M 5	6.4	0.8	6.38	8.7	2.0	0.76	7.1	C M 5–0	**358 025**	CS M 5–0	**358 074**
		1.0	6.38	8.7	2.0	0.97	7.1	C M 5–1	**358 026**	CS M 5–1	**358 076**
		1.4	6.38	8.7	2.0	1.37	7.1	C M 5–2	**358 027**	CS M 5–2	**358 077**
		2.3	6.38	8.7	2.0	2.21	7.1	C M 5–3	**358 028**	CS M 5–3	–
M 6	8.75	1.4	8.72	11.05	4.08	1.37	8.6	C M 6–1	**358 030**	CS M 6–1	**358 080**
		2.3	8.72	11.05	4.08	2.21	8.6	C M 6–2	**358 031**	CS M 6–2	**358 081**
		3.2	8.72	11.05	4.08	3.05	8.6	C M 6–3	**358 032**	CS M 6–3	**358 082**
M 8	10.5	1.4	10.44	12.65	5.47	1.37	9.7	C M 8–1	**358 035**	CS M 8–1	**358 090**
		2.3	10.44	12.65	5.47	2.21	9.7	C M 8–2	**358 036**	CS M 8–2	**358 083**
		3.2	10.44	12.65	5.47	3.05	9.7	C M 8–3	–	CS M 8–3	–
M 10	14.0	2.3	13.94	17.35	7.48	2.21	13.5	C M 10–1	**358 040**	CS M 10–1	–
		3.2	13.94	17.35	7.48	3.05	13.5	C M 10–2	–	CS M 10–2	**358 093**
		6.4	13.94	17.35	7.48	6.00	13.5	C M 10–3	–	CS M 10–3	–

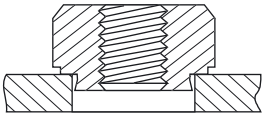
We reserve the right to amend specifications at any time.

Technical data

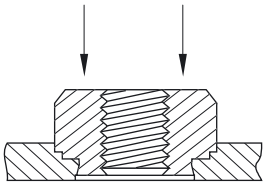
Thread	Shaft code[1]	Sheet material					
		Steel			Aluminium (H34)		
		Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 2	-0	11.2 – 15.6	465	2.1	6.7 – 8.9	275	0.9
M 2.5	-1	11.2 – 15.6	545	2.1	6.7 – 8.9	390	1.1
M 3	-2	11.2 – 15.6	1010	2.1	6.7 – 8.9	745	1.4
	-3	11.2 – 15.6	1100	2.1	6.7 – 8.9	850	1.4
M 3.5	-0	13.4 – 26.7	475	1.8	11.2 – 13.4	290	1.8
	-1	13.4 – 26.7	565	1.8	11.2 – 13.4	465	1.9
	-2	13.4 – 26.7	1200	2.3	11.2 – 13.4	965	2.5
	-3	13.4 – 26.7	1300	2.5	11.2 – 13.4	1050	2.8
M 4	-0	18.0 – 27.0	485	2.9	11.2 – 13.4	290	2.3
	-1	18.0 – 27.0	640	2.95	11.2 – 13.4	465	2.6
	-2	18.0 – 27.0	1245	4.2	11.2 – 13.4	965	4.0
	-3	18.0 – 27.0	1300	4.2	11.2 – 13.4	1100	4.0
M 5	-0	18.0 – 31.0	525	3.6	11.2 – 15.6	290	3.0
	-1	18.0 – 31.0	790	3.6	11.2 – 15.6	475	3.6
	-2	18.0 – 31.0	1400	6.0	11.2 – 15.6	1180	4.7
	-3	18.0 – 31.0	1500	6.0	11.2 – 15.6	1225	5.7
M 6	-1	27.0 – 36.0	1755	16.4	18.0 – 32.0	1570	9.6
	-2	27.0 – 36.0	1755	16.4	18.0 – 32.0	1570	9.6
	-3	27.0 – 36.0	1755	16.4	18.0 – 32.0	1570	9.6
M 8	-1	27.0 – 36.0	1860	18.1	18.0 – 32.0	1560	13.0
	-2	27.0 – 36.0	1860	18.1	18.0 – 32.0	1560	13.0
	-3	27.0 – 36.0	1860	18.1	18.0 – 32.0	1560	13.0
M 10	-1	32.0 – 50.0	2000	36.2	22.0 – 36.0	1750	32.7
	-2	32.0 – 50.0	2000	36.2	22.0 – 36.0	1750	32.7
	-3	32.0 – 50.0	2000	36.2	22.0 – 36.0	1750	32.7

[1] *denotes the minimum material thickness of the application material*

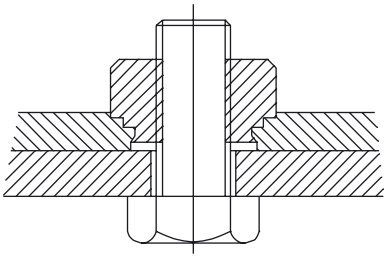
Guidelines - the precise values must be determined using the original component



Nut must be affixed at right angles



Press-in force is exerted on the head of the nut



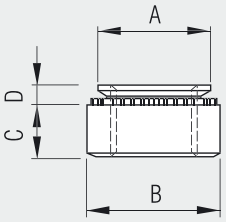
Fastening (fitting) occurs on the opposite side to the nut head

We reserve the right to amend specifications at any time.

Press-in nuts for metals

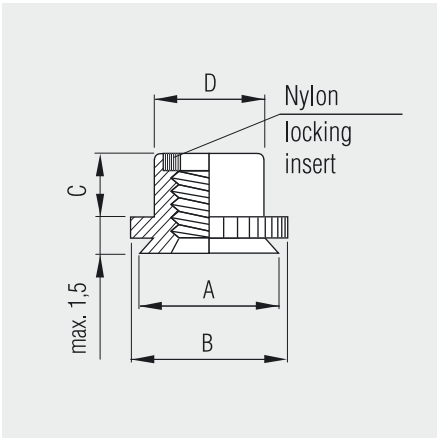
Material

Aluminium (CA series)
Suitable for metal hardnesses up to HRB 50



Thread	Hole-ø +0.08 -0.00 [mm]	Material thickness min [mm]	A max [mm]	B ±0.25 [mm]	C ±0.25 [mm]	D max [mm]	min [mm]	Aluminium Description	Aluminium Part No.
M 2	4.25	1.0	4.22	6.3	1.5	0.97	4.8	CA M 2–1	–
		1.4	4.22	6.3	1.5	1.37	4.8	CA M 2–2	–
M 3	4.75	1.0	4.73	6.3	2.0	0.97	5.6	CA M 3–1	–
		1.4	4.73	6.3	2.0	1.37	5.6	CA M 3–2	–
M 3.5	5.4	1.0	5.38	7.1	2.0	0.97	6.9	CA M 3.5–1	–
		1.4	5.38	7.1	2.0	1.37	6.9	CA M 3.5–2	–
M 4	6.0	1.0	5.97	7.9	3.0	0.97	7.1	CA M 4–1	–
		1.4	5.97	7.9	3.0	1.37	7.1	CA M 4–2	**358 727**
M 5	7.5	1.0	7.47	9.5	3.8	0.97	7.9	CA M 5–1	–
		1.4	7.47	9.5	3.8	1.37	7.9	CA M 5–2	**358 729**
M 6	8.75	1.4	8.72	11.1	4.1	1.37	8.6	CA M 6–1	**358 730**
		2.3	8.72	11.1	4.1	2.21	8.6	CA M 6–2	**358 731**

We reserve the right to amend specifications at any time.



Press-in nuts for metals
self-locking

Material

Steel zinc (CPL series)
Suitable for metal hardnesses up to HRB 70

Stainless steel (CPLC series)
Suitable for metal hardnesses up to HRB 70

Thread	Hole-ø	Material thickness	A	B	C	D		■ Steel zinc		■ Stainless steel	
	+0.08 -0.00 [mm]	*min* [mm]	*max* [mm]	*±0.25* [mm]	*±0.25* [mm]	*max* [mm]	*min* [mm]	Description	**Part No.**	Description	**Part No.**
M 3	6.0	1.5 – 1.78	5.97	7.1	3.6	5.5	4.3	CPL M 3	**358 770**	CPLC M 3	**358 773**
M 4	7.5	1.5 – 1.78	7.47	8.6	4.2	7.0	5.6	CPL M 4	**358 771**	CPLC M 4	–
M 5	8.0	1.5 – 1.78	7.97	8.9	4.5	7.5	6.4	CPL M 5	**358 772**	CPLC M 5	–

Technical data

Thread	Tightening torque	Sheet material					
		Steel 1.5 mm			Steel 1.2 mm		
	max [kN]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	1.1	13.34	1156	2.2	13.34	1000	2.2
M 4	2.2	13.34	1290	6.7	13.34	1200	6.7
M 5	3.1	13.34	1557	7.9	13.34	1380	7.9

Thread	Tightening torque	Sheet material					
		Aluminium (H 34) 1.5 mm			Aluminium (H 34) 1.0 mm		
	max [kN]	Press-in forcet [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	1.1	8.9	1000	2.2	6.67	710	2.2
M 4	2.2	8.9	1290	6.7	6.67	800	3.1
M 5	3.1	8.9	1330	7.9	6.67	800	4.5

Guidelines - the precise values must be determined using the original component.

We reserve the right to amend specifications at any time.

Installation tips

Thin sheet metal – If the fastener is fitted to sheet metal thinner than 1–1.5 mm, the fastener is only partially attached to the material. The knurled collar must be pressed into the sheet metal to make up the difference in the sheet thickness to a minimum material thickness of 1.5 mm.

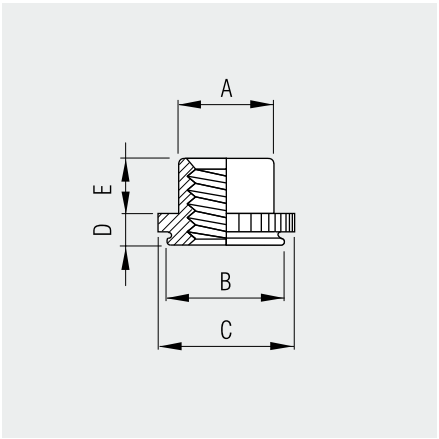
Thick sheet metal – If the fastener is fitted into sheet metal thicker than 1.78 mm, the knurled collar may snap if the permissible tightening torque is exceeded.

Press-in nuts for metals

Material
Suitable for metal hardnesses up to HRB 70

Stainless steel
(CFE, CFEO series)
self-locking

Stainless steel
(CFEX, CFEOX series)
not locking



Thread	Hole-ø	Material thickness	A	B	C	D	E		Stainless steel self-locking		Stainless steel not locking	
	+0.08 -0.00	min	max	±0.25	±0.25	max	+0.4 -0.0	min				
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	Description	**Part No.**	Description	**Part No.**
M 3	4.4	1.02	3.96	4.34	4.88	1.02	1.90	3.6	CFEO M 3	–	CFEOX M 3	**358 633**
		1.53	3.96	4.34	4.88	1.53	1.90	3.6	CFE M 3	–	CFEX M 3	**358 623**
M 4	7.4	1.02	5.23	7.34	8.17	1.02	2.55	5.2	CFEO M 4	–	CFEOX M 4	–
		1.53	5.23	7.34	8.17	1.53	2.55	5.2	CFE M 4	–	CFEX M 4	–
M 5	7.4	1.02	6.48	7.34	8.17	1.02	3.05	5.2	CFEO M 5	–	CFEOX M 5	–
		1.53	6.48	7.34	8.17	1.53	3.05	5.2	CFE M 5	**358 606**	CFEX M 5	**358 637**
M 6	8.75	1.53	7.72	8.71	9.74	1.53	3.30	7.1	CFE M 6	–	CFEX M 6	–

Technical data

Thread	Material thickness	Sheet material						Series
		Steel			Aluminium (H 34)			
		Press-in force	Push-out force	Torsional strength	Press-in force	Push-out force	Torsional strength	
	[mm]	[kN]	[N]	[Nm]	[kN]	[N]	[Nm]	
M 3	1.0	6.7	600	1.3	4.0	380	1.3	CFEO, CFEOX
	1.5	6.7	900	1.3	4.0	590	1.3	CFE, CFEX
M 4	1.0	11.1	1100	5.3	7.0	675	5.3	CFEO, CFEOX
	1.5	11.1	1600	5.3	7.0	1100	5.3	CFE, CFEX
M 5	1.0	12.0	1200	5.3	7.0	675	5.3	CFEO, CFEOX
	1.5	12.0	1600	5.3	7.0	1100	5.3	CFE, CFEX
M 6	1.5	15.6	1800	11.3	9.0	1400	11.3	CFE, CFEX

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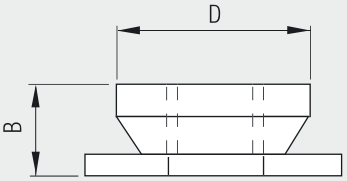
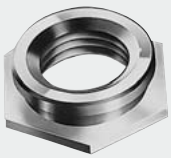




Press-in nuts for metals
for flush-surface installation

Material

Stainless steel (CFL series)
Suitable for metal hardnesses up to HRB 70

Thread	Hole-ø *+0.08 -0.00* [mm]	Material thickness *min* [mm]	SW *nom* [mm]	B *max* [mm]	D *max* [mm]	 *min* [mm]	**Stainless steel** Description	**Part No.**
M 2	4.4	1.5	4.8	1.5	4.34	6.0	CFL M 2–1	**358 501**
M 2.5	4.4	1.5	4.8	1.5	4.34	6.0	CFL M 2.5–1	**358 502**
M 3	4.4	1.5	4.8	1.5	4.34	6.0	CFL M 3–1	**358 506**
		2.3	4.8	2.3	4.34	6.0	CFL M 3–2	**358 507**
M 3.5	5.4	1.5	6.4	1.5	5.35	6.5	CFL M 3.5–1	**–**
		2.3	6.4	2.3	5.35	6.5	CFL M 3.5–2	**–**
M 4	7.4	1.5	7.94	1.5	7.34	7.2	CFL M 4–1	**358 511**
		2.3	7.94	2.3	7.34	7.2	CFL M 4–2	**358 512**
M 5	7.9	1.5	8.73	1.5	7.87	8.0	CFL M 5–1	**358 516**
		2.3	8.73	2.3	7.87	8.0	CFL M 5–2	**358 517**
M 6	8.75	3.2	9.53	3.1	8.71	8.8	CFL M 6–3	**358 518**
		4.0	9.53	3.9	8.71	8.8	CFL M 6–4	**–**
		4.75	9.53	4.7	8.71	8.8	CFL M 6–5	**–**

Technical data

Thread	Installation torque *max* [Nm]	**Sheet material** **Steel** Press-in force [kN]	Push-out force [N]	**Aluminium** Press-in force [kN]	Push-out force [N]
M 2	0.16	13.3	0.9	8.9	0.9
M 2.5	0.23	13.3	0.9	8.9	0.9
M 3	0.3	13.3	0.9	8.9	0.9
M 3.5	0.4	15.0	1.0	8.9	0.9
M 4	0.5	17.0	1.1	8.9	1.0
M 5	0.8	17.0	1.1	11	1.1
M 6	3.7	20.0	3.7	15	2.8

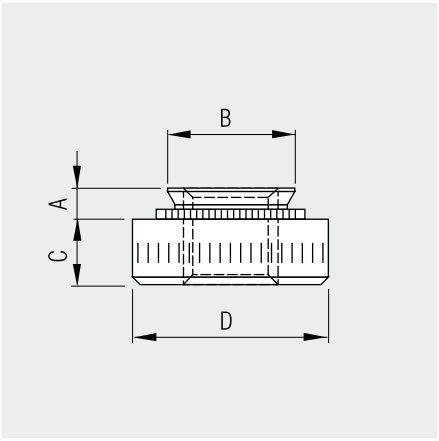
Guidelines - the precise values must be determined using the original component.

We reserve the right to amend specifications at any time.

Press-in nuts for metals
self-locking

Material

Stainless steel (CFSP series)
Suitable for metal hardnesses up to HRB 88



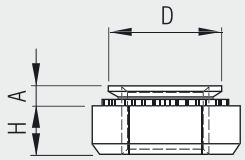
Thread	Hole-ø *+0.08 - 0.0* [mm]	Material thickness *min* [mm]	A *max* [mm]	B *max* [mm]	C *±0.25* [mm]	D *±0.25* [mm]	 *min* [mm]	■ Stainless steel Description	**Part No.**
M 3	4.25	0.8 –1.0	0.76	4.22	1.5	6.3	4.8	CFSP M 3–0	**358 789**
		1.0	0.97	4.22	1.5	6.3	4.8	CFSP M 3–1	**358 790**
		1.4	1.37	4.22	1.5	6.3	4.8	CFSP M 3–2	**358 791**
M 4	5.4	0.8 – 1.0	0.76	5.38	2.0	7.9	6.9	CFSP M 4–0	**–**
		1.0	0.97	5.38	2.0	7.9	6.9	CFSP M 4–1	**358 794**
		1.4	1.37	5.38	2.0	7.9	6.9	CFSP M 4–2	**358 795**
M 5	6.4	0.8 – 1.0	0.76	6.38	2.0	8.7	7.1	CFSP M 5–0	**–**
		1.0	0.97	6.38	2.0	8.7	7.1	CFSP M 5–1	**–**
		1.4	1.37	6.38	2.0	8.7	7.1	CFSP M 5–2	**358 796**
M 6	8.75	1.4	1.37	8.72	4.1	11.1	8.6	CFSP M 6–1	**358 799**

Technical data

Thread	Shaft code	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	-0	13 – 22	570	1.55
	-1	13 – 22	720	1.90
	-2	13 – 22	1285	2.00
M 4	-0	22 – 31	640	3.35
	-1	22 – 31	790	4.15
	-2	22 – 31	1595	5.05
M 5	-0	26 – 40	790	3.90
	-1	26 – 40	1020	5.05
	-2	26 – 40	1770	6.75
M 6	-1	40 – 48	1990	16.5

Guidelines - the precise values must be determined using the original component.

We reserve the right to amend specifications at any time.



Press-in nuts KAL for metals

Material

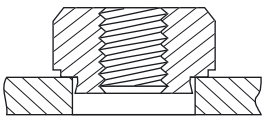
Steel zinc (CKN series)
Suitable for metal hardnesses up to HRB 80

Thread	Hole-ø	Material thickness	SW	A	C Corner size	D	H		Steel	
	+0.08 - 0.0 [mm]	*min* [mm]	*- 0.2* [mm]	*max* [mm]	*±0.25* [mm]	*max* [mm]	*±0.25* [mm]	*min* [mm]	Description	**Part No.**
M 3	4.5	1.0	5.5	1.0	6.4	4.45	2.0	4.5	CKN M 3–1	**358 760**
		1.4	5.5	1.4	6.4	4.45	2.0	4.5	CKN M 3–2	**358 761**
M 4	5.5	1.0	7.0	1.0	8.1	5.45	2.2	5.5	CKN M 4–1	**358 762**
		1.4	7.0	1.4	8.1	5.45	2.2	5.5	CKN M 4–2	**358 763**
M 5	6.5	1.0	8.0	1.0	9.2	6.45	3.0	6.5	CKN M 5–1	**358 764**
		1.4	8.0	1.4	9.2	6.45	3.0	6.5	CKN M 5–2	**358 765**
M 6	8.0	1.0	10.0	1.0	11.5	7.95	4.0	8.0	CKN M 6–1	**358 766**
		1.4	10.0	1.4	11.5	7.95	4.0	8.0	CKN M 6–2	**358 767**
M 8	10.0	1.4	13.0	1.4	15.0	9.95	4.5	10.0	CKN M 8–2	**358 768**
		2.0	13.0	2.0	15.0	9.95	4.5	10.0	CKN M 8–3	**358 769**

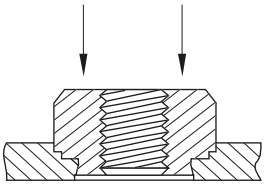
Technical data

Thread	Shaft code	Material thickness *min* [mm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	-1	1.0	13	800	2.5
M 4	-1	1.0	14	800	3.0
M 5	-1	1.0	14	800	6.0
M 6	-1	1.0	17	850	15.0
M 8	-2	1.6	22	2000	25.0

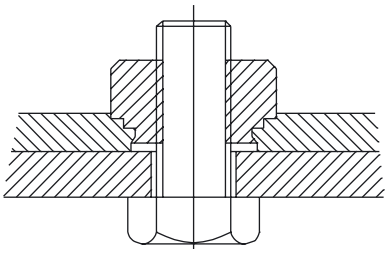
Guidelines - the precise values must be determined using the original component.



Nut must be affixed at right angles



Press-in force is exerted on the head of the nut

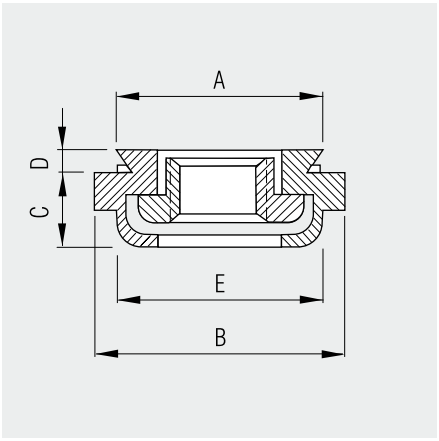


Fastening (fitting) occurs on the opposite side to the nut head

We reserve the right to amend specifications at any time.

Press-in nuts for metals

- Floating thread
- To compensate for an axis offset by approx. 0.8 mm



Material

Steel zinc (CFAS series)
Suitable for metal hardnesses up to HRB 80

Stainless steel (CFAC series)
Suitable for metal hardnesses up to HRB 70

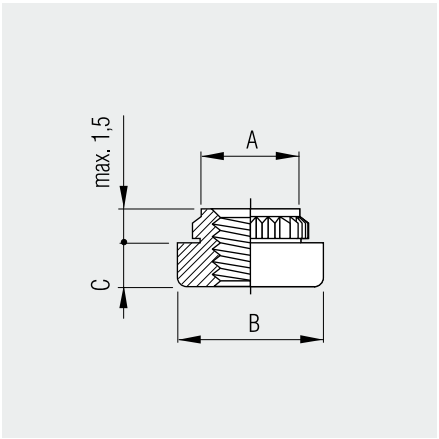
Thread	Hole-ø	Material thickness	A	B	C	D	E		Steel		Stainless steel	
	+0.08 - 0.0 [mm]	*min* [mm]	*max* [mm]	*±0.361* [mm]	*max* [mm]	*max* [mm]	*max* [mm]	*min* [mm]	Description	**Part No.**	Description	**Part No.**
M 3	7.4	1.0	7.34	9.1	3.3	0.97	7.4	7.6	CFAS M 3–1	**358 701**	CFAC M 3–1	**358 708**
		1.4	7.34	9.1	3.3	1.37	7.4	7.6	CFAS M 3–2	**–**	CFAC M 3–2	**358 709**
M 4	9.4	1.0	9.32	11.2	3.3	0.97	9.3	8.6	CFAS M 4–1	**358 703**	CFAC M 4–1	**–**
		1.4	9.32	11.2	3.3	1.37	9.3	8.6	CFAS M 4–2	**358 704**	CFAC M 4–2	**–**
M 5	10.3	1.0	10.29	11.9	4.3	0.97	10.3	9.0	CFAS M 5–1	**358 706**	CFAC M 5–1	**–**
		1.4	10.29	11.9	4.3	1.37	10.3	9.0	CFAS M 5–2	**–**	CFAC M 5–2	**–**
M 6	13.1	1.4	13.06	15.3	5.3	1.37	13.0	11.0	CFAS M 6–2	**–**	CFAC M 6–2	**–**

Technical data

Thread	Shaft code	Sheet material								
		Steel			Aluminium (T 3)			Aluminium (H 34)		
		Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	1	13	1330	9	13	970	7	7	950	9
	2	13	1330	17	14	1000	17	9	1000	17
M 4	1	13	1330	17	14	1050	12	9	1100	17
	2	13	1780	22	15	1330	17	10	1178	22
M 5	1	15	1780	17	15	1330	17	10	1330	17
	2	15	2000	22	16	1550	22	11	1550	22
M 6	2	22	2200	36	23	1550	36	14	1780	36

Guidelines - the precise values must be determined using the original component.

We reserve the right to amend specifications at any time.



Press-in nuts for plastics

printed circuit boards, fibre-glass, acrylic

Material

Steel electrolytically zinc plated (CKF2 series)
Suitable for metal hardnesses up to HRB 60

Stainless steel (CKFS2 series)
Suitable for metal hardnesses up to HRB 60

Thread	Hole-ø *+0.08 - 0.0* [mm]	Material thickness *min* [mm]	A *±0.08* [mm]	B *±0.13* [mm]	C *±0.13* [mm]	 *min* [mm]	Steel		Stainless steel	
							Description	**Part No.**	Description	**Part No.**
M 2.5	4.2	1.5	4.68	5.56	1.5	4.5	CKF2 M 2.5	**358 551**	CKFS2 M 2.5	**–**
M 3	4.2	1.5	4.68	5.56	1.5	4.5	CKF2 M 3	**358 561**	CKFS2 M 3	**358 593**
M 4	6.4	1.5	6.81	8.74	2.0	6.4	CKF2 M 4	**358 571**	CKFS2 M 4	**358 594**
M 5	6.9	1.5	7.37	9.53	3.0	7.1	CKF2 M 5	**358 572**	CKFS2 M 5	**–**

Technical data

Thread	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 2.5	2.22	200	1.35
M 3	2.22	200	1.35
M 4	2.90	330	3.73
M 5	2.90	350	4.52

Guidelines - the precise values must be determined using the original component.

We reserve the right to amend specifications at any time.

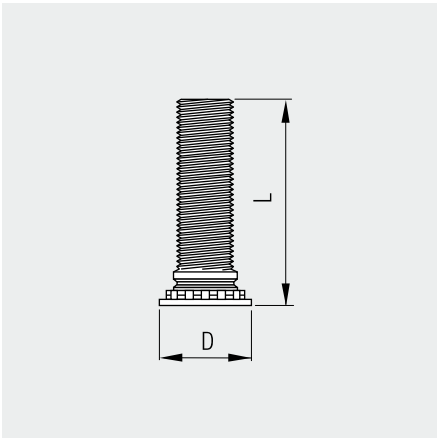
Press-in studs for metals

Material

Steel zinc (CH series)
Suitable for metal hardnesses up to HRB 80

Stainless steel (CHS series)
Suitable for metal hardnesses up to HRB 70

Aluminium (CHA series)
Suitable for metal hardnesses up to HRB 50



Thread	Hole-ø +0.08 - 0.0 [mm]	Material thickness min [mm]	L ±0.4 [mm]	D ±0.4 [mm]	min [mm]	Steel		Stainless steel		Aluminium	
						Description	Part No.	Description	Part No.	Description	Part No.
M 2	–	–	8	–	–	CH M 2–8	**358 111**	–	**–**	–	**–**
			10	–	–	CH M 2–10	**358 112**	–	**–**	–	**–**
M 2.5	2.5	1.0	6	4.1	5.4	CH M 2.5–6	**358 120**	CHS M 2.5–6	**358 220**	CHA M 2.5–6	**–**
			8	4.1	5.4	CH M 2.5–8	**358 121**	CHS M 2.5–8	**–**	CHA M 2.5–8	**–**
			10	4.1	5.4	CH M 2.5–10	**358 122**	CHS M 2.5–10	**–**	CHA M 2.5–10	**–**
			12	4.1	5.4	CH M 2.5–12	**358 123**	CHS M 2.5–12	**–**	CHA M 2.5–12	**–**
			15	4.1	5.4	CH M 2.5–15	**358 124**	CHS M 2.5–15	**358 224**	CHA M 2.5–15	**–**
			18	4.1	5.4	CH M 2.5–18	**358 125**	CHS M 2.5–18	**358 225**	CHA M 2.5–18	**–**
M 3	3.0	1.0	5	4.6	5.6	CH M 3–5	**358 129**	CHS M 3–5	**–**	–	**–**
			6	4.6	5.6	CH M 3–6	**358 130**	CHS M 3–6	**358 230**	CHA M 3–6	**–**
			8	4.6	5.6	CH M 3–8	**358 131**	CHS M 3–8	**358 231**	CHA M 3–8	**358 911**
			10	4.6	5.6	CH M 3–10	**358 132**	CHS M 3–10	**358 232**	CHA M 3–10	**–**
			12	4.6	5.6	CH M 3–12	**358 133**	CHS M 3–12	**358 233**	CHA M 3–12	**–**
			15	4.6	5.6	CH M 3–15	**358 134**	CHS M 3–15	**358 234**	CHA M 3–15	**358 914**
			18	4.6	5.6	CH M 3–18	**358 135**	CHS M 3–18	**358 235**	CHA M 3–18	**-**
			20	4.6	5.6	CH M 3–20	**358 136**	CHS M 3–20	**358 236**	CHA M 3–20	**358 916**
			22	4.6	5.6	CH M 3–22	**358 137**	CHS M 3–22	**358 237**	CHA M 3–22	**–**
			25	4.6	5.6	CH M 3–25	**358 138**	CHS M 3–25	**358 238**	CHA M 3–25	**–**
			30	4.6	5.6	CH M 3–30	**358 176**	CHS M 3–30	**–**	CHA M 3–30	**–**
M 4	4.0	1.0	6	5.9	7.2	CH M 4–6	**358 140**	CHS M 4–6	**358 240**	CHA M 4–6	**–**
			8	5.9	7.2	CH M 4–8	**358 141**	CHS M 4–8	**358 241**	CHA M 4–8	**–**
			10	5.9	7.2	CH M 4–10	**358 142**	CHS M 4–10	**358 242**	CHA M 4–10	**358 942**
			12	5.9	7.2	CH M 4–12	**358 143**	CHS M 4–12	**358 243**	CHA M 4–12	**–**
			13.5	5.9	7.2	CH M 4–13.5	**358 980**	CHS M 4–13.5	**–**	CHA M 4–13.5	**–**
			15	5.9	7.2	CH M 4–15	**358 144**	CHS M 4–15	**358 244**	CHA M 4–15	**358 944**
			16	5.9	7.2	CH M 4–16	**358 844**	CHS M 4–16	**–**	CHA M 4–16	**–**
			18	5.9	7.2	CH M 4–18	**358 145**	CHS M 4–18	**358 245**	CHA M 4–18	**358 945**
			20	5.9	7.2	CH M 4–20	**358 146**	CHS M 4–20	**358 246**	CHA M 4–20	**–**
			22	5.9	7.2	CH M 4–22	**358 147**	CHS M 4–22	**358 247**	CHA M 4–22	**–**
			25	5.9	7.2	CH M 4–25	**358 148**	CHS M 4–25	**358 248**	CHA M 4–25	**358 948**
			28	5.9	7.2	CH M 4–28	**358 199**	CHS M 4–28	**–**	CHA M 4–28	**–**
			30	5.9	7.2	CH M 4–30	**358 150**	CHS M 4–30	**358 250**	CHA M 4–30	**358 950**
			35	5.9	7.2	CH M 4–35	**358 139**	CHS M 4–35	**–**	CHA M 4–35	**–**
			38	5.9	7.2	CH M 4–38	**358 149**	CHS M 4–38	**358 258**	CHA M 4–38	**–**

Please refer to page 201 for details of punch/die dimensions. We reserve the right to amend specifications at any time. *Continued next page*

Continued

Thread	Hole-ø +0.08 - 0.0 [mm]	Material thickness min [mm]	L ±0.4 [mm]	D ±0.4 [mm]	 min [mm]	Steel		Stainless steel		Aluminium	
						Description	Part No.	Description	Part No.	Description	Part No.
M 5	5.0	1.0	6	6.5	7.2	CH M 5–6	**358 169**	CHS M 5–6	–	CHA M 5–6	–
			8	6.5	7.2	CH M 5–8	**358 151**	CHS M 5–8	**358 251**	CHA M 5–8	–
			10	6.5	7.2	CH M 5–10	**358 152**	CHS M 5–10	**358 252**	CHA M 5–10	–
			12	6.5	7.2	CH M 5–12	**358 153**	CHS M 5–12	**358 253**	CHA M 5–12	–
			15	6.5	7.2	CH M 5–15	**358 154**	CHS M 5–15	**358 254**	CHA M 5–15	–
			18	6.5	7.2	CH M 5–18	**358 155**	CHS M 5–18	**358 255**	CHA M 5–18	–
			20	6.5	7.2	CH M 5–20	**358 156**	CHS M 5–20	**358 256**	CHA M 5–20	–
			22	6.5	7.2	CH M 5–22	**358 115**	CHS M 5–22	**358 257**	CHA M 5–22	–
			25	6.5	7.2	CH M 5–25	**358 158**	CHS M 5–25	–	CHA M 5–25	–
			28	6.5	7.2	CH M 5–28	**358 173**	CHS M 5–28	**358 259**	CHA M 5–28	–
			30	6.5	7.2	CH M 5–30	**358 160**	CHS M 5–30	**358 260**	CHA M 5–30	–
			35	6.5	7.2	CH M 5–35	**358 159**	CHS M 5–35	**358 249**	CHA M 5–35	–
			38	6.5	7.2	CH M 5–38	**358 157**	CHS M 5–38	**358 262**	CHA M 5–38	–
M 6	6.0	1.6	8	8.2	7.9	CH M 6–8	**358 161**	CHS M 6–8	–	CHA M 6–8	–
			10	8.2	7.9	CH M 6–10	**358 162**	CHS M 6–10	**358 261**	CHA M 6–10	–
			12	8.2	7.9	CH M 6–12	**358 163**	CHS M 6–12	**358 263**	CHA M 6–12	**358 308**
			15	8.2	7.9	CH M 6–15	**358 164**	CHS M 6–15	**358 264**	CHA M 6–15	–
			18	8.2	7.9	CH M 6–18	**358 165**	CHS M 6–18	**358 265**	CHA M 6–18	–
			20	8.2	7.9	CH M 6–20	**358 166**	CHS M 6–20	**358 266**	CHA M 6–20	**358 311**
			22	8.2	7.9	CH M 6–22	**358 167**	CHS M 6–22	–	CHA M 6–22	–
			25	8.2	7.9	CH M 6–25	**358 168**	CHS M 6–25	**358 268**	CHA M 6–25	**358 313**
			28	8.2	7.9	CH M 6–28	–	CHS M 6–28	–	CHA M 6–28	–
			30	8.2	7.9	CH M 6–30	**358 170**	CHS M 6–30	**358 270**	CHA M 6–30	–
			35	8.2	7.9	CH M 6–35	**358 171**	CHS M 6–35	**358 271**	CHA M 6–35	–
			38	8.2	7.9	CH M 6–38	**358 172**	CHS M 6–38	–	CHA M 6–38	–
			50	8.2	7.9	CH M 6–50	**358 179**	CHS M 6–50	–	CHA M 6–50	–
M 8	8.0	2.4	8	9.6	9.6	CH M 8–8	–	CHS M 8–8	–	CHA M 8–8	–
			10	9.6	9.6	CH M 8–10	–	CHS M 8–10	–	CHA M 8–10	–
			12	9.6	9.6	CH M 8–12	**358 183**	CHS M 8–12	–	CHA M 8–12	–
			15	9.6	9.6	CH M 8–15	**358 184**	CHS M 8–15	**358 284**	CHA M 8–15	–
			18	9.6	9.6	CH M 8–18	**358 185**	CHS M 8–18	**358 285**	CHA M 8–18	–
			20	9.6	9.6	CH M 8–20	**358 186**	CHS M 8–20	**358 286**	CHA M 8–20	–
			22	9.6	9.6	CH M 8–22	**358 187**	CHS M 8–22	–	CHA M 8–22	–
			25	9.6	9.6	CH M 8–25	**358 188**	CHS M 8–25	**358 288**	CHA M 8–25	–
			28	9.6	9.6	CH M 8–28	–	CHS M 8–28	–	CHA M 8–28	–
			30	9.6	9.6	CH M 8–30	**358 190**	CHS M 8–30	**358 291**	CHA M 8–30	–
			35	9.6	9.6	CH M 8–35	**358 191**	CHS M 8–35	**358 292**	CHA M 8–35	–

For punch and die dimensions, see page 201.

We reserve the right to amend specifications at any time.

Technical data

Thread	Test material	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Over tightening torque [Nm]
M 2.5	Aluminium 1.6 mm	8.9	625	0.9	0.40
	Steel 1.5 mm	11.1	1025	0.9	0.40
M 3	Aluminium 1.6 mm	12.9	890	1.6	1.72
	Steel 1.5 mm	14.7	1240	1.6	1.72
M 3.5	Aluminium 1.6 mm	15.6	980	1.6	1.10
	Steel 1.5 mm	22.3	1550	2.7	1.10
M 4	Aluminium 1.6 mm	22.3	1290	2.8	1.60
	Steel 1.5 mm	28.9	1780	4.1	1.60
M 5	Aluminium 1.6 mm	24.5	1470	3.4	3.40
	Steel 1.5 mm	33.4	2440	6.4	3.40
M 6	Aluminium 2.4 mm	28.9	2000	7.2	5.70
	Steel 2.4 mm	29.8	3110	11.2	5.70
M 8	Aluminium 2.4 mm	29.0	2440	11.2	14.0
	Steel 2.4 mm	44.5	3780	19.1	14.0

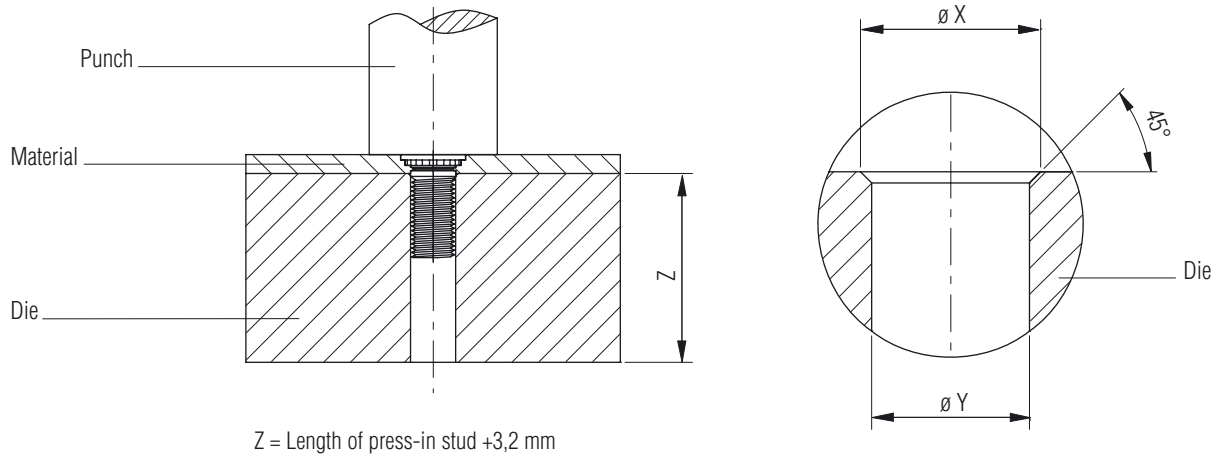
Guidelines - the precise values must be determined using the original component.
For punch and die dimensions, see page 201.

We reserve the right to amend specifications at any time.

Punch/die dimensions for press-in studs of the series: CH – CHS – CHA – CHN

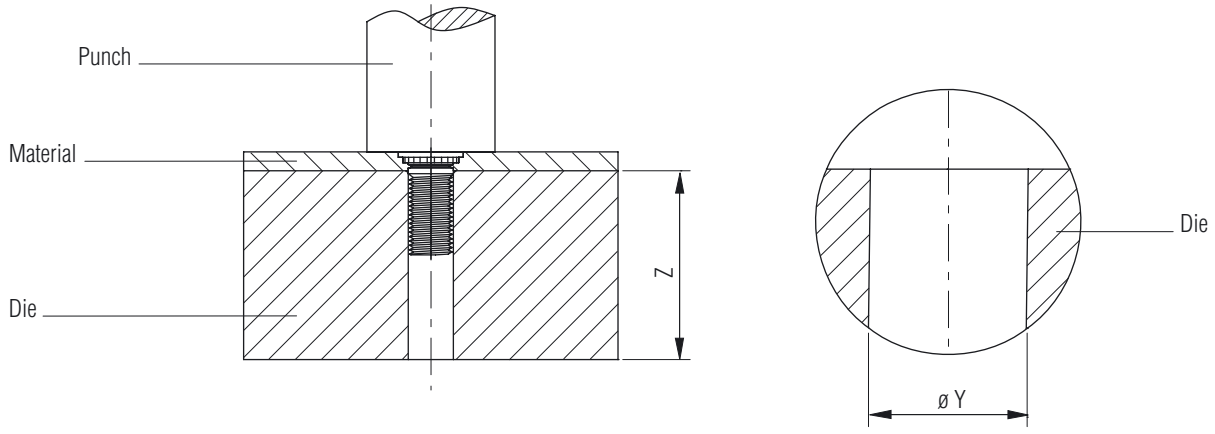
Thread	Die dimensions	
	X *+0.1* [mm]	Y *+0.08* [mm]
M 2.5	3.1	2.5
M 3	3.6	3.0
M 3.5	4.1	3.5
M 4	4.6	4.0
M 5	5.6	5.0
M 6	6.6	6.0
M 8	–	8.0

Die for material thickness < 1.5 mm for thread sizes M 2,5–M 5
Die for material thickness < 2,3 mm for thread sizes M 6–M 8



Z = Length of press-in stud +3,2 mm

Die for material thickness > 1.5 mm for thread sizes M 2,5–M 5
Die for material thickness > 2.3 mm for thread sizes M 6–M 8

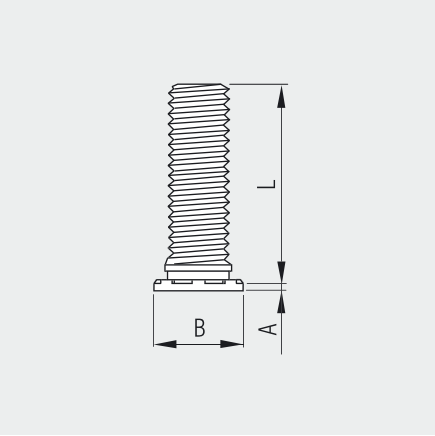


Z = Length of press-in stud +3,2 mm

We reserve the right to amend specifications at any time.

Press-in stud for metals

for thin sheet metal > 0.51 mm,
not flush-fitting



Material

Steel zinc (TCH series)
Suitable for metal hardnesses up to HRB 80

Stainless steel (TCHS series)
Suitable for metal hardnesses up to HRB 70

Thread	Hole-ø	Material thickness	L	A	B		Steel		Stainless steel	
	+0.08 - 0.0 [mm]	*min* [mm]	*±0.4* [mm]	*max* [mm]	*±0.4* [mm]	*min* [mm]	Description	**Part No.**	Description	**Part No.**
M 3	3.0	0.51	6.0	0.64	4.5	5.6	TCH M 3–6	**358 850**	TCHS M 3–6	–
			8.0	0.64	4.5	5.6	TCH M 3–8	**358 851**	TCHS M 3–8	–
			10.0	0.64	4.5	5.6	TCH M 3–10	–	TCHS M 3–10	–
			12.0	0.64	4.5	5.6	TCH M 3–12	–	TCHS M 3–12	–
			15.0	0.64	4.5	5.6	TCH M 3–15	**358 854**	TCHS M 3–15	–
			18.0	0.64	4.5	5.6	TCH M 3–18	–	TCHS M 3–18	**358 885**
M 4	4.0	0.51	10.0	0.64	5.8	7.2	TCH M 4–10	–	TCHS M 4–10	–
			12.0	0.64	5.8	7.2	TCH M 4–12	–	TCHS M 4–12	–
			15.0	0.64	5.8	7.2	TCH M 4–15	–	TCHS M 4–15	–
			18.0	0.64	5.8	7.2	TCH M 4–18	–	TCHS M 4–18	–
			20.0	0.64	5.8	7.2	TCH M 4–20	–	TCHS M 4–20	–
			22.0	0.64	5.8	7.2	TCH M 4–22	–	TCHS M 4–22	–
			25.0	0.64	5.8	7.2	TCH M 4–25	–	TCHS M 4–25	–
			28.0	0.64	5.8	7.2	TCH M 4–28	–	TCHS M 4–28	–
			30.0	0.64	5.8	7.2	TCH M 4–30	–	TCHS M 4–30	–
			35.0	0.64	5.8	7.2	TCH M 4–35	–	TCHS M 4–35	–
			38.0	0.64	5.8	7.2	TCH M 4–38	–	TCHS M 4–38	–
M 5	5.0	0.51	10.0	0.64	6.4	7.2	TCH M 5–10	–	TCHS M 5–10	–
			12.0	0.64	6.4	7.2	TCH M 5–12	–	TCHS M 5–12	–
			15.0	0.64	6.4	7.2	TCH M 5–15	–	TCHS M 5–15	–
			18.0	0.64	6.4	7.2	TCH M 5–18	–	TCHS M 5–18	–
			20.0	0.64	6.4	7.2	TCH M 5–20	–	TCHS M 5–20	–
			22.0	0.64	6.4	7.2	TCH M 5–22	–	TCHS M 5–22	–
			25.0	0.64	6.4	7.2	TCH M 5–25	–	TCHS M 5–25	–
			28.0	0.64	6.4	7.2	TCH M 5–28	–	TCHS M 5–28	–
			30.0	0.64	6.4	7.2	TCH M 5–30	–	TCHS M 5–30	–
			35.0	0.46	6.4	7.2	TCH M 5–35	–	TCHS M 5–35	–
			38.0	0.46	6.4	7.2	TCH M 5–38	–	TCHS M 5–38	–

For punch and die dimensions, see page 201.

We reserve the right to amend specifications at any time.

Technical data

Thread	Installation torque *max* [Nm]	Material [mm]	Sheet material			
			Material hardness [HRB]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	0.74	Aluminium 0.5	28	5.3	190	0.8
		Steel 0.6	52	6.7	290	1.0
M 4	1.70	Aluminium 0.5	28	9.8	245	0.7
		Steel 0.6	52	13.4	495	2.5
M 5	3.50	Aluminium 0.5	28	13.4	265	1.2
		Steel 0.6	52	17.8	665	2.9

Guidelines - the precise values must be determined using the original component.

For punch and die dimensions, see page 201.

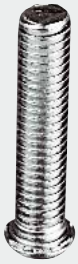
We reserve the right to amend specifications at any time.

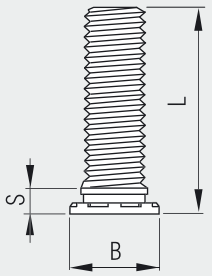
Press-in stud for metals
for fitting close to an edge

Material

Steel zinc (CHE series)
Suitable for metal hardnesses up to HRB 80

Stainless steel (CHES series)
Suitable for metal hardnesses up to HRB 70





Thread	Hole-ø	Material thickness	L	B	S		Steel		Stainless steel	
	+0.08 - 0.0	min	±0.4	±0.4	max	min				
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	Description	Part No.	Description	Part No.
M 2.5	2.5	1.0	6.0	3.15	2.1	2.8	CHE M 2.5–6	**358 863**	CHES M 2.5–6	–
			8.0	3.15	2.1	2.8	CHE M 2.5–8	**358 881**	CHES M 2.5–8	–
			10.0	3.15	2.1	2.8	CHE M 2.5–10	**358 864**	CHES M 2.5–10	–
			12.0	3.15	2.1	2.8	CHE M 2.5–12	**358 858**	CHES M 2.5–12	–
			15.0	3.15	2.1	2.8	CHE M 2.5–15	**358 865**	CHES M 2.5–15	–
			18.0	3.15	2.1	2.8	CHE M 2.5–18	**358 877**	CHES M 2.5–18	–
M 3	3.0	1.0	6.0	3.65	2.1	3.3	CHE M 3–6	**358 888**	CHES M 3–6	–
			7.0	3.65	2.1	3.3	CHE M 3–7	**358 852**	CHES M 3–7	–
			8.0	3.65	2.1	3.3	CHE M 3–8	**358 889**	CHES M 3–8	–
			10.0	3.65	2.1	3.3	CHE M 3–10	**358 890**	CHES M 3–10	–
			12.0	3.65	2.1	3.3	CHE M 3–12	**358 891**	CHES M 3–12	–
			15.0	3.65	2.1	3.3	CHE M 3–15	**358 892**	CHES M 3–15	–
			18.0	3.65	2.1	3.3	CHE M 3–18	**358 893**	CHES M 3–18	–
			20.0	3.65	2.1	3.3	CHE M 3–20	**358 861**	CHES M 3–20	–
			22.0	3.65	2.1	3.3	CHE M 3–22	**358 862**	CHES M 3–22	–
			25.0	3.65	2.1	3.3	CHE M 3–25	**358 886**	CHES M 3–25	–
M 4	4.0	1.0	6.0	4.65	2.4	4.3	CHE M 4–6	**358 876**	CHES M 4–6	–
			8.0	4.65	2.4	4.3	CHE M 4–8	**358 866**	CHES M 4–8	–
			10.0	4.65	2.4	4.3	CHE M 4–10	**358 894**	CHES M 4–10	–
			12.0	4.65	2.4	4.3	CHE M 4–12	**358 895**	CHES M 4–12	–
			15.0	4.65	2.4	4.3	CHE M 4–15	**358 896**	CHES M 4–15	–
			18.0	4.65	2.4	4.3	CHE M 4–18	**358 897**	CHES M 4–18	**358 900**
			20.0	4.65	2.4	4.3	CHE M 4–20	**358 898**	CHES M 4–20	–
			22.0	4.65	2.4	4.3	CHE M 4–22	**358 867**	CHES M 4–22	–
			25.0	4.65	2.4	4.3	CHE M 4–25	**358 899**	CHES M 4–25	–
			28.0	4.65	2.4	4.3	CHE M 4–28	**358 853**	CHES M 4–28	–
			30.0	4.65	2.4	4.3	CHE M 4–30	**358 855**	CHES M 4–30	–
			35.0	4.65	2.4	4.3	CHE M 4–35	**358 856**	CHES M 4–35	–
			38.0	4.65	2.4	4.3	CHE M 4–38	**358 849**	CHES M 4–38	–

For punch and die dimensions, see page 201.

Continued next page

We reserve the right to amend specifications at any time.

Continued

Thread	Hole-ø +0.08 - 0.0 [mm]	Material thickness min [mm]	L ±0.4 [mm]	B ±0.4 [mm]	S max [mm]	 min [mm]	■ Steel		■ Stainless steel	
							Description	**Part No.**	Description	**Part No.**
M 5	5.0	1.0	8.0	5.9	2.7	5.6	CHE M 5–8	–	CHES M 5–8	–
			10.0	5.9	2.7	5.6	CHE M 5–10	**358 868**	CHES M 5–10	–
			12.0	5.9	2.7	5.6	CHE M 5–12	**358 869**	CHES M 5–12	–
			15.0	5.9	2.7	5.6	CHE M 5–15	**358 878**	CHES M 5–15	–
			18.0	5.9	2.7	5.6	CHE M 5–18	**358 873**	CHES M 5–18	–
			20.0	5.9	2.7	5.6	CHE M 5–20	**358 857**	CHES M 5–20	–
			25.0	5.9	2.7	5.6	CHE M 5–25	**358 879**	CHES M 5–25	–
			30.0	5.9	2.7	5.6	CHE M 5–30	**358 871**	CHES M 5–30	–
			35.0	5.9	2.7	5.6	CHE M 5–35	–	CHES M 5–35	–

Technical data

Thread	Installation torque max [Nm]	Test material [mm]	Sheet material			
			Material hardness [HRB]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 2.5	0.41	Aluminium 1.2 mm	33	3.1	285	0.55
	0.41	Steel 1.1 mm	54	5.3	450	1.10
M 3	0.46	Aluminium 1.2 mm	33	4.4	285	0.65
	0.74	Steel 1.1 mm	54	5.3	475	1.25
M 4	0.75	Aluminium 1.2 mm	33	5.3	365	1.10
	1.70	Steel 1.1 mm	54	6.6	550	2.10
M 5	1.11	Aluminium 1.2 mm	33	11.1	530	2.20
	2.25	Steel 1.1 mm	54	20.0	1000	4.40

Guidelines - the precise values must be determined using the original component.

For punch and die dimensions, see page 201.

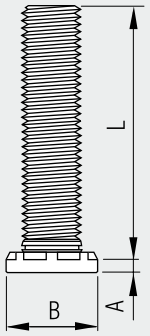
We reserve the right to amend specifications at any time.

Press-in stud for metals
for high torques

Material

Steel zinc (HCH series)
Suitable for metal hardnesses up to HRB 85

Stainless steel (HCHS series)
Suitable for metal hardnesses up to HRB 70



Thread	Hole-ø +0.13 - 0.0 [mm]	Material thickness min [mm]	L ±0.4 [mm]	A max [mm]	B ±2.5 [mm]	min [mm]	Hole for fastener max [mm]	Steel Description	Steel Part No.	Stainless steel Description	Stainless steel Part No.
M 5	5.0	1.3	15.0	1.14	7.8	10.7	6.5	HCH M 5–15	**358 808**	HCHS M 5–15	–
			20.0	1.14	7.8	10.7	6.5	HCH M 5–20	–	HCHS M 5–20	–
			25.0	1.14	7.8	10.7	6.5	HCH M 5–25	–	HCHS M 5–25	–
			30.0	1.14	7.8	10.7	6.5	HCH M 5–30	–	HCHS M 5–30	–
M 6	6.0	1.5	20.0	1.27	9.4	11.5	7.5	HCH M 6–20	**358 812**	HCHS M 6–20	–
			25.0	1.27	9.4	11.5	7.5	HCH M 6–25	–	HCHS M 6–25	–
			30.0	1.27	9.4	11.5	7.5	HCH M 6–30	–	HCHS M 6–30	–
			35.0	1.27	9.4	11.5	7.5	HCH M 6–35	**358 815**	HCHS M 6–35	–
M 8	8.0	2.0	16.0	1.78	12.5	12.7	9.5	HCH M 8–16	**358 816**	HCHS M 8–16	–
			20.0	1.78	12.5	12.7	9.5	HCH M 8–20	**358 817**	HCHS M 8–20	–
			25.0	1.78	12.5	12.7	9.5	HCH M 8–25	**358 818**	HCHS M 8–25	**358 824**
			30.0	1.78	12.5	12.7	9.5	HCH M 8–30	**358 819**	HCHS M 8–30	–
			35.0	1.78	12.5	12.7	9.5	HCH M 8–35	**358 820**	HCHS M 8–35	–
			40.0	1.78	12.5	12.7	9.5	HCH M 8–40	–	HCHS M 8–40	–
			50.0	1.78	12.5	12.7	9.5	HCH M 8–50	–	HCHS M 8–50	–

Technical data

Thread	Test material	Material hardness [HRB]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Over tightening torque [Nm]
M 5	Aluminium 1.5 mm	15	13.0	778	5.4	6.8
	Steel 1.5 mm	65	26.0	1556	7.5	6.8
M 6	Aluminium 1.5 mm	43	29.0	1620	13.9	17.9
	Steel 1.5 mm	59	33.0	2020	13.9	23.7
M 8	Aluminium 2.3 mm	39	35.6	1780	30.0	43.4
	Steel 2.3 mm	58	44.5	2890	30.0	43.4

Guidelines - the precise values must be determined using the original component.

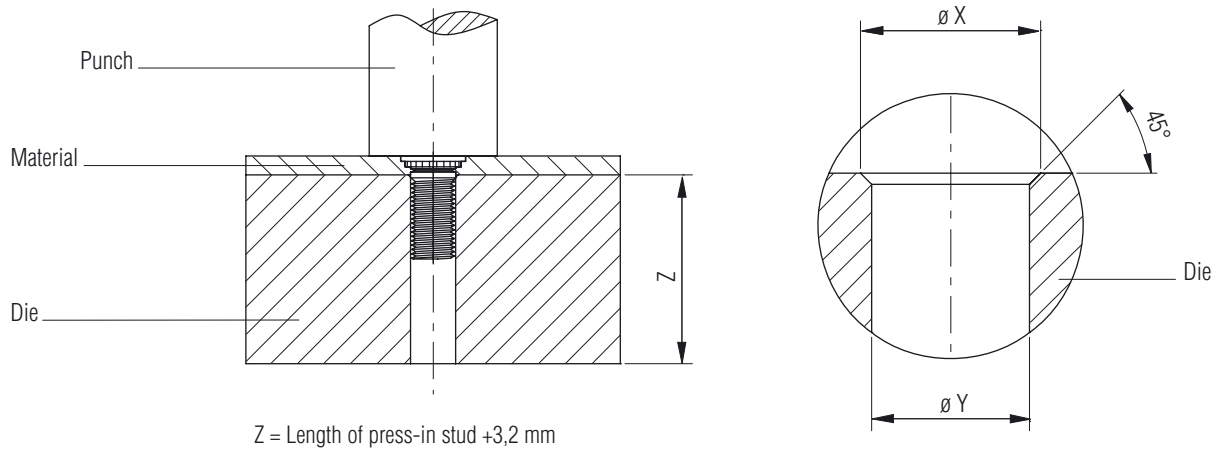
For punch and die dimensions, see page 201.

We reserve the right to amend specifications at any time.

Punch/die dimensions for press-in studs of the series: TCH – TCHS – CHE – CHES – HCH – HCHS – HCHB

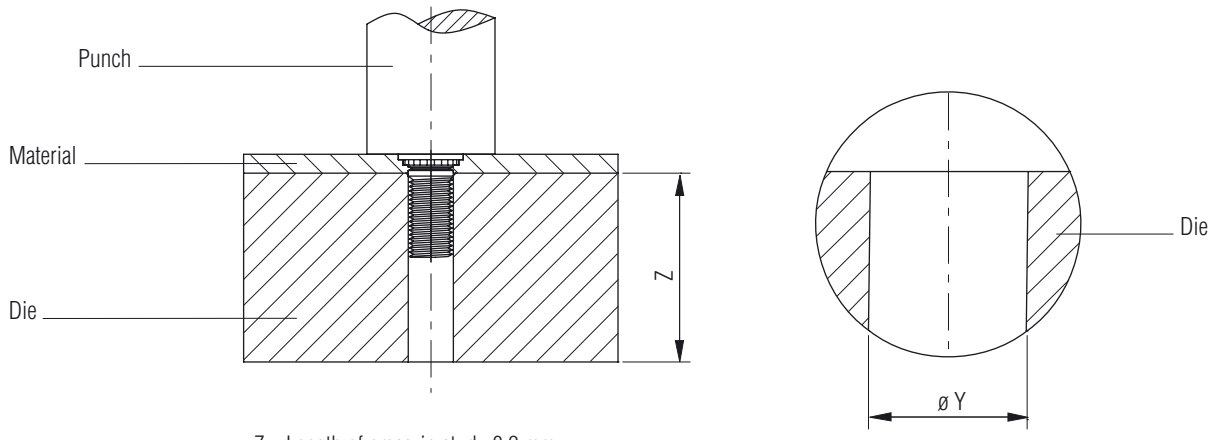
Thread	Die dimensions	
	X *+0,1* [mm]	Y *+0,1* [mm]
M 2.5	3.1	2.6
M 3	3.6	3.1
M 4	4.6	4.1
M 5	5.6	5.1

Die for material thickness < 1,5 mm



Z = Length of press-in stud +3,2 mm

Die for material thickness > 1,5 mm



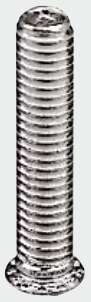
Z = Length of press-in stud +3,2 mm

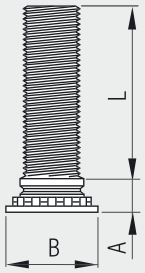
We reserve the right to amend specifications at any time.

Press-in studs for metals

Material

Stainless steel (CHTS series)
Suitable for metal hardnesses up to HRB 92





Thread	Hole-ø *+0.08 - 0.0* [mm]	Material thickness [mm]	L *±0.4* [mm]	A *max* [mm]	B *±0.4* [mm]	**Stainless steel** Description	**Part No.**
M 3	3.0	1–2.4	6	2.1	4.6	CHTS M 3–6	–
			8	2.1	4.6	CHTS M 3–8	–
			10	2.1	4.6	CHTS M 3–10	–
			12	2.1	4.6	CHTS M 3–12	**358 970**
			15	2.1	4.6	CHTS M 3–16	**358 975**
			18	2.1	4.6	CHTS M 3–18	–
			20	2.1	4.6	CHTS M 3–20	**358 971**
			25	2.1	4.6	CHTS M 3–25	–
M 4	4.0	1–2.4	6	2.4	5.9	CHTS M 4–6	–
			8	2.4	5.9	CHTS M 4–8	–
			10	2.4	5.9	CHTS M 4–10	**358 972**
			12	2.4	5.9	CHTS M 4–12	–
			15	2.4	5.9	CHTS M 4–15	–
			18	2.4	5.9	CHTS M 4–18	–
			20	2.4	5.9	CHTS M 4–20	–
			25	2.4	5.9	CHTS M 4–25	–
			30	2.4	5.9	CHTS M 4–30	–
			35	2.4	5.9	CHTS M 4–35	–
M 5	5.0	1–2.4	8	2.7	6.5	CHTS M 5–8	–
			10	2.7	6.5	CHTS M 5–10	**358 974**
			12	2.7	6.5	CHTS M 5–12	–
			15	2.7	6.5	CHTS M 5–15	–
			18	2.7	6.5	CHTS M 5–18	–
			20	2.7	6.5	CHTS M 5–20	**358 973**
			25	2.7	6.5	CHTS M 5–25	–
			30	2.7	6.5	CHTS M 5–30	–
			35	2.7	6.5	CHTS M 5–35	–

For punch and die dimensions, see page 201.

We reserve the right to amend specifications at any time.

Technical data

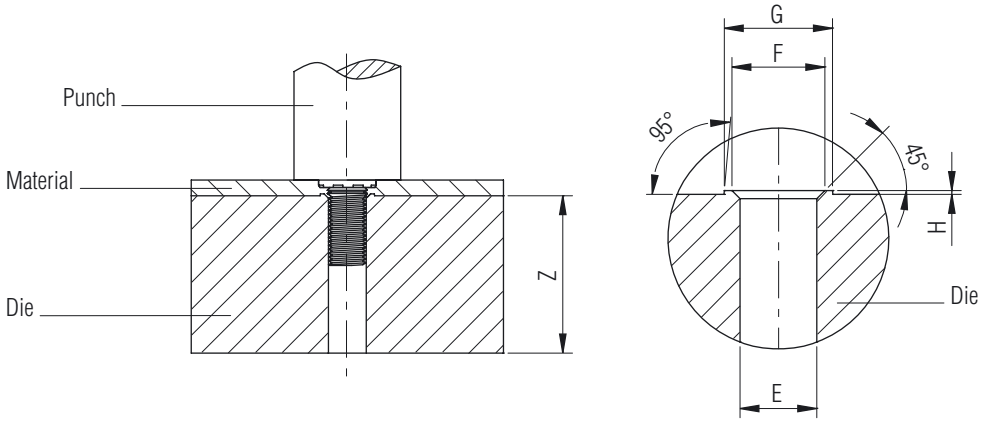
Thread	Test material	Material thickness [mm]	Material hardness [HRB]	Press-in force *max* [kN]	Push-out force *min* [N]	Torsional strength *max* [Nm]	Tensile forche *max* [N]
M 3	Stainless steel	1.5	92	40.0	3290	1.7	3510
M 4	Stainless steel	1.5	92	50.0	4400	6.4	7960
M 5	Stainless steel	1.5	92	53.0	4850	10.50	8980

Guidelines - the precise values must be determined using the original component.

Punch/die dimensions for press-in studs of the series: CHTS

Thread	Die dimensions			
	E [mm]	F [mm]	G [mm]	H [mm]
M 3	3.05	3.81	4.57	0.25
M 4	4.04	4.95	5.82	0.25
M 5	5.08	6.15	7.16	0.25

Die for material thickness < 1,5 mm



Z = Length of press-in stud +3,2 mm

We reserve the right to amend specifications at any time.

Press-in pins for metals
for thin sheet metal > 1.0 mm

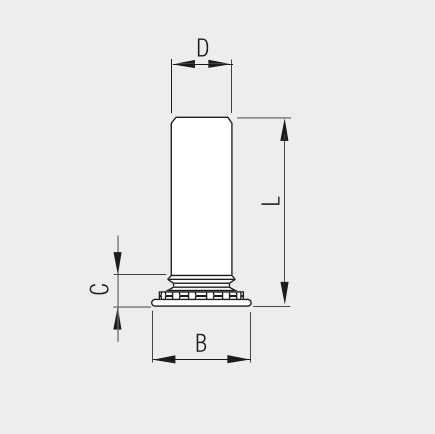
Material

Steel heat treated, zinc (CH series)[1]

Steel not heat treated, zinc (CHN series)[2]

Stainless steel (CHS series)[3]

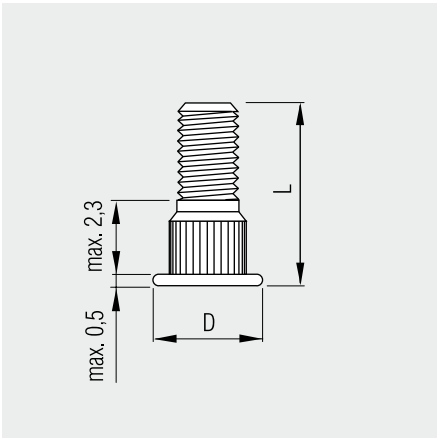
Aluminium (CHA series)[2]



Pin ø D ±0.05 **[mm]**	Hole-ø +0.08 - 0.0 [mm]	Material thickness min [mm]	L ±0.4 [mm]	B ±0.4 [mm]	C max [mm]	min [mm]	**Steel** heat treated		**Steel** not heat treated		**Stainless steel**		**Aluminium**	
							Description	**Part No.**	Description	**Part No.**	Description	**Part No.**	Description	**Part No.**
3	3.5	1.0	6.0	5.3	2.3	6.4	CH 3–6	–	CHN 3–6	–	CHS 3–6	**358 839**	CHA 3–6	–
			8.0	5.3	2.3	6.4	CH 3–8	–	CHN 3–8	**358 801**	CHS 3–8	–	CHA 3–8	–
			10.0	5.3	2.3	6.4	CH 3–10	–	CHN 3–10	–	CHS 3–10	–	CHA 3–10	–
			12.0	5.3	2.3	6.4	CH 3–12	–	CHN 3–12	–	CHS 3–12	–	CHA 3–12	–
			15.0	5.3	2.3	6.4	CH 3–15	–	CHN 3–15	–	CHS 3–15	–	CHA 3–15	–
			18.0	5.3	2.3	6.4	CH 3–18	–	CHN 3–18	–	CHS 3–18	–	CHA 3–18	–
			20.0	5.3	2.3	6.4	CH 3–20	–	CHN 3–20	–	CHS 3–20	–	CHA 3–20	–
			25.0	5.3	2.3	6.4	CH 3–25	–	CHN 3–25	–	CHS 3–25	–	CHA 3–25	–
			30.0	5.3	2.3	6.4	CH 3–30	–	CHN 3–30	–	CHS 3–30	–	CHA 3–30	–
			35.0	5.3	2.3	6.4	CH 3–35	–	CHN 3–35	–	CHS 3–35	–	CHA 3–35	–
4	4.1	1.0	8.0	6.0	2.3	7.1	CH 4–8	**358 828**	CHN 4–8	**358 841**	CHS 4–8	–	CHA 4–8	–
			10.0	6.0	2.3	7.1	CH 4–10	**358 827**	CHN 4–10	–	CHS 4–10	–	CHA 4–10	–
			12.0	6.0	2.3	7.1	CH 4–12	**358 831**	CHN 4–12	–	CHS 4–12	–	CHA 4–12	–
			15.0	6.0	2.3	7.1	CH 4–15	–	CHN 4–15	–	CHS 4–15	–	CHA 4–15	–
			18.0	6.0	2.3	7.1	CH 4–18	–	CHN 4–18	–	CHS 4–18	–	CHA 4–18	–
			20.0	6.0	2.3	7.1	CH 4–20	**358 834**	CHN 4–20	–	CHS 4–20	–	CHA 4–20	–
			25.0	6.0	2.3	7.1	CH 4–25	**358 835**	CHN 4–25	**358 847**	CHS 4–25	–	CHA 4–25	–
			30.0	6.0	2.3	7.1	CH 4–30	–	CHN 4–30	–	CHS 4–30	–	CHA 4–30	–
			35.0	6.0	2.3	7.1	CH 4–35	–	CHN 4–35	–	CHS 4–35	–	CHA 4–35	–
5	5.5	1.0	6.0	7.5	2.55	7.6	CH 5–6	**358 829**	CHN 5–6	–	CHS 5–6	–	CHA 5–6	–
			8.0	7.5	2.55	7.6	CH 5–8	**358 830**	CHN 5–8	–	CHS 5–8	–	CHA 5–8	–
			10.0	7.5	2.55	7.6	CH 5–10	**358 832**	CHN 5–10	–	CHS 5–10	–	CHA 5–10	–
			12.0	7.5	2.55	7.6	CH 5–12	–	CHN 5–12	–	CHS 5–12	–	CHA 5–12	–
			15.0	7.5	2.55	7.6	CH 5–15	**358 833**	CHN 5–15	–	CHS 5–15	–	CHA 5–15	–
			18.0	7.5	2.55	7.6	CH 5–18	–	CHN 5–18	–	CHS 5–18	–	CHA 5–18	–
			20.0	7.5	2.55	7.6	CH 5–20	–	CHN 5–20	–	CHS 5–20	–	CHA 5–20	–
			25.0	7.5	2.55	7.6	CH 5–25	**358 836**	CHN 5–25	–	CHS 5–25	–	CHA 5–25	–
			28.0	7.5	2.55	7.6	CH 5–28	**358 837**	CHN 5–28	–	CHS 5–28	–	CHA 5–28	–
			30.0	7.5	2.55	7.6	CH 5–30	–	CHN 5–30	–	CHS 5–30	–	CHA 5–30	–
			35.0	7.5	2.55	7.6	CH 5–35	–	CHN 5–35	–	CHS 5–35	–	CHA 5–35	–

[1] *suitable for metal hardnesses up to HRB 80*
[2] *suitable for metal hardnesses up to HRB 50*
[3] *suitable for metal hardnesses up to HRB 70*

For punch and die dimensions, see page 201.



Press-in stud for plastics
solderable

Material

Phosphorous bronze
electrolytically tin plated
(CKFH series)

Thread	Hole-ø *+0.003 - 0.000* [mm]	Material thickness *min* [mm]	L [mm]	Hole for fastener [mm]	Torque for nut *max* [Nm]	Hole for die *+0.08 - 0.00* [mm]	D *±0.25* [mm]	 *min* [mm]	Description	**Part No.**
M 3	3.0	1.5	6.0	3.7	0.45	3.1	4.58	3.8	CKFH M 3–6	**358 581**
			8.0	3.7	0.45	3.1	4.58	3.8	CKFH M 3–8	**358 582**
			10.0	3.7	0.45	3.1	4.58	3.8	CKFH M 3–10	**358 583**
			12.0	3.7	0.45	3.1	4.58	3.8	CKFH M 3–12	**358 584**
			15.0	3.7	0.45	3.1	4.58	3.8	CKFH M 3–15	**358 585**
			18.0	3.7	0.45	3.1	4.58	3.8	CKFH M 3–18	**358 586**
M 4	4.2	1.5	8.0	4.8	1.60	4.1	5.74	5.1	CKFH M 4–8	**358 587**
			10.0	4.8	1.60	4.1	5.74	5.1	CKFH M 4–10	**358 588**
			12.0	4.8	1.60	4.1	5.74	5.1	CKFH M 4–12	**358 589**
			15.0	4.8	1.60	4.1	5.74	5.1	CKFH M 4–15	**358 590**
			18.0	4.8	1.60	4.1	5.74	5.1	CKFH M 4–18	–
M 5	5.0	1.5	10.0	5.8	2.10	5.1	6.60	5.3	CKFH M 4–10	–
			12.0	5.8	2.10	5.1	6.60	5.3	CKFH M 4–12	–
			15.0	5.8	2.10	5.1	6.60	5.3	CKFH M 4–15	–
			18.0	5.8	2.10	5.1	6.60	5.3	CKFH M 4–18	–

Technical Data

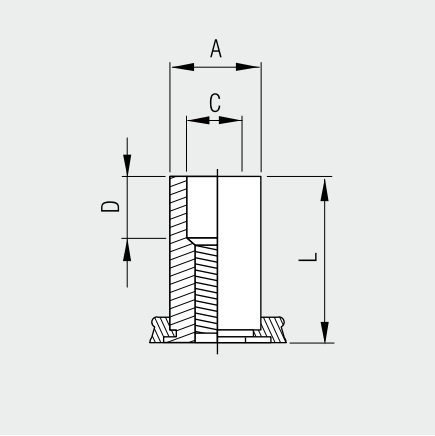
Thread	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	1.8	285	0.79
M 4	1.8	355	1.80
M 5	1.8	400	1.92

Guidelines - the precise values must be determined using the original component.

Hole ø of dies = Dimension “A” +0.10/+0.18 mm.

We reserve the right to amend specifications at any time.

Press-in bushes with thread for metals
open style



Material

Steel zinc (CFSO series)[1]

Stainless steel (CFSOS series)[2]

Aluminium (CFSOA series)[3]

Thread	Hole-ø +0.08 -0.00 [mm]	Material thick-ness min [mm]	L +0.05 -0.13 [mm]	A +0.00 -0.13 [mm]	SW (nom) [mm]	C [mm]	D ±0.4 [mm]	min [mm]	Steel Description	Steel Part No.	Stainless steel Description	Stainless steel Part No.	Aluminium Description	Aluminium Part No.
M 3	4.2	1.0	3.0	4.19	4.8	3.2	0	6.0	CFSO M 3–3	–	CFSOS M 3–3	–	CFSOA M 3–3	–
			4.0	4.19	4.8	3.2	0	6.0	CFSO M 3–4	**358 331**	CFSOS M 3–4	**358 381**	CFSOA M 3–4	–
			5.0	4.19	4.8	3.2	0	6.0	CFSO M 3–5	**358 337**	CFSOS M 3–5	–	CFSOA M 3–5	–
			6.0	4.19	4.8	3.2	0	6.0	CFSO M 3–6	**358 332**	CFSOS M 3–6	**358 382**	CFSOA M 3–6	–
			8.0	4.19	4.8	3.2	0	6.0	CFSO M 3–8	**358 333**	CFSOS M 3–8	**358 383**	CFSOA M 3–8	–
			10.0	4.19	4.8	3.2	4.0	6.0	CFSO M 3–10	**358 334**	CFSOS M 3–10	**358 385**	CFSOA M 3–10	–
			12.0	4.19	4.8	3.2	4.0	6.0	CFSO M 3–12	**358 335**	CFSOS M 3–12	–	CFSOA M 3–12	–
M 3	5.4	1.0	14.0	4.19	4.8	3.2	4.0	6.0	CFSO M 3–14	**358 336**	CFSOS M 3–14	–	CFSOA M 3–14	–
			3.0	5.38	6.4	3.2	0	7.0	CFSO3.5 M 3–3	**358 340**	CFSOS3.5 M 3–3	–	CFSOA3.5 M 3–3	–
			4.0	5.38	6.4	3.2	0	7.0	CFSO3.5 M 3–4	**358 341**	CFSOS3.5 M 3–4	–	CFSOA3.5 M 3–4	–
			5.0	5.38	6.4	3.2	0	7.0	CFSO3.5 M 3–5	**358 342**	CFSOS3.5 M 3–5	–	CFSOA3.5 M 3–5	–
			6.0	5.38	6.4	3.2	0	7.0	CFSO3.5 M 3–6	**358 343**	CFSOS3.5 M 3–6	**358 391**	CFSOA3.5 M 3–6	–
			8.0	5.38	6.4	3.2	0	7.0	CFSO3.5 M 3–8	**358 344**	CFSOS3.5 M 3–8	**358 390**	CFSOA3.5 M 3–8	–
			9.0	5.38	6.4	3.2	0	7.0	CFSO3.5 M 3–9	**358 350**	CFSOS3.5 M 3–9	–	CFSOA3.5 M 3–9	–
			10.0	5.38	6.4	3.2	4.0	7.0	CFSO3.5 M 3–10	**358 345**	CFSOS3.5 M 3–10	**358 393**	CFSOA3.5 M 3–10	–
			12.0	5.38	6.4	3.2	4.0	7.0	CFSO3.5 M 3–12	**358 346**	CFSOS3.5 M 3–12	**358 394**	CFSOA3.5 M 3–12	–
			14.0	5.38	6.4	3.2	4.0	7.0	CFSO3.5 M 3–14	**358 347**	CFSOS3.5 M 3–14	–	CFSOA3.5 M 3–14	–
			16.0	5.38	6.4	3.2	8.0	7.0	CFSO3.5 M 3–16	**358 339**	CFSOS3.5 M 3–16	–	CFSOA3.5 M 3–16	–
			18.0	5.38	6.4	3.2	8.0	7.0	CFSO3.5 M 3–18	**358 348**	CFSOS3.5 M 3–18	–	CFSOA3.5 M 3–18	–
M 3.5	5.4	1.0	22.0	5.38	6.4	3.2	11.0	7.0	CFSO3.5 M 3–22	**358 349**	CFSOS3.5 M 3–22	–	CFSOA3.5 M 3–22	–
			3.0	5.38	6.4	4.0	0	7.0	CFSO M 3.5–3	–	CFSOS M 3.5–3	–	CFSOA M 3.5–3	–
			4.0	5.38	6.4	4.0	0	7.0	CFSO M 3.5–4	–	CFSOS M 3.5–4	–	CFSOA M 3.5–4	–
			6.0	5.38	6.4	4.0	4.0	7.0	CFSO M 3.5–6	–	CFSOS M 3.5–6	–	CFSOA M 3.5–6	–
			8.0	5.38	6.4	4.0	4.0	7.0	CFSO M 3.5–8	**358 338**	CFSOS M 3.5–8	–	CFSOA M 3.5–8	–
			10.0	5.38	6.4	4.0	4.0	7.0	CFSO M 3.5–10	–	CFSOS M 3.5–10	–	CFSOA M 3.5–10	–
			12.0	5.38	6.4	4.0	8.0	7.0	CFSO M 3.5–12	–	CFSOS M 3.5–12	–	CFSOA M 3.5–12	–
			14.0	5.38	6.4	4.0	8.0	7.0	CFSO M 3.5–14	–	CFSOS M 3.5–14	–	CFSOA M 3.5–14	–
			16.0	5.38	6.4	4.0	8.0	7.0	CFSO M 3.5–16	–	CFSOS M 3.5–16	–	CFSOA M 3.5–16	–
			18.0	5.38	6.4	4.0	8.0	7.0	CFSO M 3.5–18	–	CFSOS M 3.5–18	–	CFSOA M 3.5–18	–

[1] *suitable for metal hardnesses up to HRB 80*
[2] *suitable for metal hardnesses up to HRB 70*
[3] *suitable for metal hardnesses up to HRB 50*

Continued next page

Die for drill hole diam. = Dimension “A” +0.10/+0.18 mm.
We reserve the right to amend specifications at any time.

Technical data see page 218

Continued

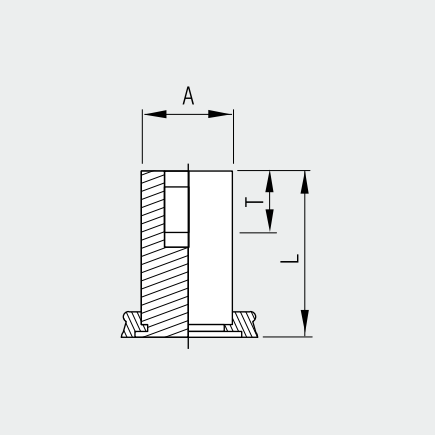
Thread	Hole-ø +0.08 -0.00 [mm]	Material thick-ness min [mm]	L +0.05 -0.13 [mm]	A +0.00 -0.13 [mm]	SW (nom) [mm]	C [mm]	D ±0.4 [mm]	 min [mm]	Steel		Stainless steel		Aluminium	
									Description	**Part No.**	Description	**Part No.**	Description	**Part No.**
M 4	7.2	1.3	3.0	7.11	7.9	4.8	0	8.0	CFSO M 4–3	**358 359**	CFSOS M 4–3	–	CFSOA M 4–3	–
			4.0	7.11	7.9	4.8	0	8.0	CFSO M 4–4	**358 351**	CFSOS M 4–4	**358 373**	CFSOA M 4–4	–
			6.0	7.11	7.9	4.8	0	8.0	CFSO M 4–6	**358 352**	CFSOS M 4–6	**358 384**	CFSOA M 4–6	**358 395**
			7.0	7.11	7.9	4.8	0	8.0	CFSO M 4–7	**358 356**	CFSOS M 4–7	–	CFSOA M 4–7	–
			8.0	7.11	7.9	4.8	0	8.0	CFSO M 4–8	**358 353**	CFSOS M 4–8	**358 389**	CFSOA M 4–8	–
			10.0	7.11	7.9	4.8	4.0	8.0	CFSO M 4–10	**358 354**	CFSOS M 4–10	–	CFSOA M 4–10	–
			12.0	7.11	7.9	4.8	4.0	8.0	CFSO M 4–12	**358 355**	CFSOS M 4–12	–	CFSOA M 4–12	–
			14.0	7.11	7.9	4.8	4.0	8.0	CFSO M 4–14	–	CFSOS M 4–14	–	CFSOA M 4–14	–
			16.0	7.11	7.9	4.8	8.0	8.0	CFSO M 4–16	**358 361**	CFSOS M 4–16	–	CFSOA M 4–16	–
			18.0	7.11	7.9	4.8	8.0	8.0	CFSO M 4–18	**358 358**	CFSOS M 4–18	–	CFSOA M 4–18	–
			20.0	7.11	7.9	4.8	8.0	8.0	CFSO M 4–20	**358 357**	CFSOS M 4–20	–	CFSOA M 4–20	–
			22.0	7.11	7.9	4.8	11.0	8.0	CFSO M 4–22	**358 360**	CFSOS M 4–22	–	CFSOA M 4–22	–
M 5	7.2	1.3	3.0	7.11	7.9	5.2	0	8.0	CFSO M 5–3	–	CFSOS M 5–3	–	CFSOA M 5–3	–
			4.0	7.11	7.9	5.2	0	8.0	CFSO M 5–4	**358 362**	CFSOS M 5–4	–	CFSOA M 5–4	–
			6.0	7.11	7.9	5.2	0	8.0	CFSO M 5–6	**358 363**	CFSOS M 5–6	**358 388**	CFSOA M 5–6	–
			8.0	7.11	7.9	5.2	0	8.0	CFSO M 5–8	**358 364**	CFSOS M 5–8	**358 387**	CFSOA M 5–8	–
			10.0	7.11	7.9	5.2	4.0	8.0	CFSO M 5–10	**358 365**	CFSOS M 5–10	–	CFSOA M 5–10	–
			12.0	7.11	7.9	5.2	4.0	8.0	CFSO M 5–12	–	CFSOS M 5–12	–	CFSOA M 5–12	–
			14.0	7.11	7.9	5.2	4.0	8.0	CFSO M 5–14	**358 367**	CFSOS M 5–14	–	CFSOA M 5–14	–
			16.0	7.11	7.9	5.2	8.0	8.0	CFSO M 5–16	–	CFSOS M 5–16	–	CFSOA M 5–16	–
			18.0	7.11	7.9	5.2	8.0	8.0	CFSO M 5–18	–	CFSOS M 5–18	–	CFSOA M 5–18	–
			20.0	7.11	7.9	5.2	8.0	8.0	CFSO M 5–20	–	CFSOS M 5–20	**358 386**	CFSOA M 5–20	–
			22.0	7.11	7.9	5.2	11.0	8.0	CFSO M 5–22	–	CFSOS M 5–22	–	CFSOA M 5–22	–

Die for drill hole diam. = Dimension “A” +0.10/+0.18 mm.

Technical data see page 204

We reserve the right to amend specifications at any time.

Press-in bushes with thread for metals
closed



Material

Steel zinc (CFBSO series)[2]

Stainless steel (CFBSOS series)[3]

Aluminium (CFBSOA series)[4]

Thread	Hole-ø +0.08 -0.00 [mm]	Material thick-ness min [mm]	L +0.05 -0.13 [mm]	A +0.00 -0.13 [mm]	SW (nom) [mm]	T[1] ±0.4 [mm]	min [mm]	Steel Description	Steel Part No.	Stainless steel Description	Stainless steel Part No.	Aluminium Description	Aluminium Part No.
M 3	4.2	1.0	6.0	4.19	4.8	3.2	6.0	CFBSO M 3–6	**358 402**	CFBSOS M 3–6	–	CFBSOA M 3–6	–
			8.0	4.19	4.8	4.0	6.0	CFBSO M 3–8	**358 403**	CFBSOS M 3–8	**358 433**	CFBSOA M 3–8	–
			10.0	4.19	4.8	4.0	6.0	CFBSO M 3–10	**358 404**	CFBSOS M 3–10	**358 434**	CFBSOA M 3–10	–
			12.0	4.19	4.8	5.0	6.0	CFBSO M 3–12	**358 405**	CFBSOS M 3–12	**358 435**	CFBSOA M 3–12	–
			14.0	4.19	4.8	6.5	6.0	CFBSO M 3–14	**358 406**	CFBSOS M 3–14	**358 436**	CFBSOA M 3–14	–
			16.0	4.19	4.8	6.5	6.0	CFBSO M 3–16	**358 407**	CFBSOS M 3–16	–	CFBSOA M 3–16	–
			18.0	4.19	4.8	9.5	6.0	CFBSO M 3–18	**358 408**	CFBSOS M 3–18	**358 438**	CFBSOA M 3–18	–
			20.0	4.19	4.8	9.5	6.0	CFBSO M 3–20	**358 409**	CFBSOS M 3–20	–	CFBSOA M 3–20	–
			22.0	4.19	4.8	9.5	6.0	CFBSO M 3–22	**358 410**	CFBSOS M 3–22	–	CFBSOA M 3–22	–
M 3	5.4	1.0	25.0	4.19	4.8	9.5	6.0	CFBSO M 3–25	**358 421**	CFBSOS M 3–25	**358 437**	CFBSOA M 3–25	–
			6.0	5.38	6.4	3.2	7.0	CFBSO3.5 M 3–6	**358 412**	CFBSOS3.5 M 3–6	–	CFBSOA3.5 M 3–6	–
			8.0	5.38	6.4	4.0	7.0	CFBSO3.5 M 3–8	**358 413**	CFBSOS3.5 M 3–8	**358 439**	CFBSOA3.5 M 3–8	–
			9.0	5.38	6.4	4.0	7.0	CFBSO3.5 M 3–9	**358 401**	CFBSOS3.5 M 3–9	–	CFBSOA3.5 M 3–9	–
			10.0	5.38	6.4	4.0	7.0	CFBSO3.5 M 3–10	**358 414**	CFBSOS3.5 M 3–10	**358 440**	CFBSOA3.5 M 3–10	–
			10.0	5.38	6.4	4.0	7.0	CFBSO3.5 M 3–11	**358 411**	CFBSOS3.5 M 3–11	–	CFBSOA3.5 M 3–11	–
			12.0	5.38	6.4	5.0	7.0	CFBSO3.5 M 3–12	**358 415**	CFBSOS3.5 M 3–12	**358 441**	CFBSOA3.5 M 3–12	–
			14.0	5.38	6.4	6.5	7.0	CFBSO3.5 M 3–14	**358 416**	CFBSOS3.5 M 3–14	**358 442**	CFBSOA3.5 M 3–14	–
			16.0	5.38	6.4	6.5	7.0	CFBSO3.5 M 3–16	**358 417**	CFBSOS3.5 M 3–16	–	CFBSOA3.5 M 3–16	–
			18.0	5.38	6.4	9.5	7.0	CFBSO3.5 M 3–18	**358 418**	CFBSOS3.5 M 3–18	–	CFBSOA3.5 M 3–18	–
			20.0	5.38	6.4	9.5	7.0	CFBSO3.5 M 3–20	**358 419**	CFBSOS3.5 M 3–20	–	CFBSOA3.5 M 3–20	–
			22.0	5.38	6.4	9.5	7.0	CFBSO3.5 M 3–22	**358 420**	CFBSOS3.5 M 3–22	–	CFBSOA3.5 M 3–22	–
			25.0	5.38	6.4	9.5	7.0	CFBSO3.5 M 3–25	**358 448**	CFBSOS3.5 M 3–25	–	CFBSOA3.5 M 3–25	–
			25.0	5.38	6.4	9.5	7.0	CFBSO3.5 M 3–30	**358 449**	CFBSOS3.5 M 3–30	–	CFBSOA3.5 M 3–30	–

[1] *T = Thread length*
[2] *suitable for metal hardnesses up to HRB 80*
[3] *suitable for metal hardnesses up to HRB 70*
[4] *suitable for metal hardnesses up to HRB 50*

Continued next page

Die for drill hole diam. = Dimension “A” +0.10/+0.18 mm.

Technical data see page 218

We reserve the right to amend specifications at any time.

Continued

Thread	Hole-ø +0.08 -0.00 [mm]	Material thick-ness min [mm]	L +0.05 -0.13 [mm]	A +0.00 -0.13 [mm]	SW (nom) [mm]	T[1] ±0.4 [mm]	 min [mm]	Steel		Stainless steel		Aluminium	
								Description	**Part No.**	Description	**Part No.**	Description	**Part No.**
M 3.5	5.4	1.0	8.0	5.38	6.4	4.0	7.0	CFBSO M 3.5–8	–	CFBSOS M 3.5–8	–	CFBSOA M 3.5–8	–
			10.0	5.38	6.4	4.0	7.0	CFBSO M 3.5–10	–	CFBSOS M 3.5–10	–	CFBSOA M 3.5–10	–
			12.0	5.38	6.4	5.0	7.0	CFBSO M 3.5–12	–	CFBSOS M 3.5–12	–	CFBSOA M 3.5–12	–
			14.0	5.38	6.4	6.5	7.0	CFBSO M 3.5–14	–	CFBSOS M 3.5–14	–	CFBSOA M 3.5–14	–
			16.0	5.38	6.4	6.5	7.0	CFBSO M 3.5–16	–	CFBSOS M 3.5–16	–	CFBSOA M 3.5–16	–
			18.0	5.38	6.4	9.5	7.0	CFBSO M 3.5–18	–	CFBSOS M 3.5–18	–	CFBSOA M 3.5–18	–
			20.0	5.38	6.4	9.5	7.0	CFBSO M 3.5–20	–	CFBSOS M 3.5–20	–	CFBSOA M 3.5–20	–
			22.0	5.38	6.4	9.5	7.0	CFBSO M 3.5–22	–	CFBSOS M 3.5–22	–	CFBSOA M 3.5–22	–
			25.0	5.38	6.4	9.5	7.0	CFBSO M 3.5–25	–	CFBSOS M 3.5–25	–	CFBSOA M 3.5–25	–
M 4	7.2	1.3	8.0	7.11	7.9	4.0	8.0	CFBSO M 4–8	**358 423**	CFBSOS M 4–8	**358 473**	CFBSOA M 4–8	–
			10.0	7.11	7.9	4.0	8.0	CFBSO M 4–10	**358 424**	CFBSOS M 4–10	**358 474**	CFBSOA M 4–10	–
			11.5	7.11	7.9	4.0	8.0	CFSO M 4–11.5	**358 422**	CFSOS M 4–11.5	–	CFSOA M 4–11.5	–
			12.0	7.11	7.9	5.0	8.0	CFBSO M 4–12	**358 425**	CFBSOS M 4–12	**358 475**	CFBSOA M 4–12	–
			14.0	7.11	7.9	6.5	8.0	CFBSO M 4–14	**358 426**	CFBSOS M 4–14	**358 476**	CFBSOA M 4–14	–
			16.0	7.11	7.9	6.5	8.0	CFBSO M 4–16	**358 427**	CFBSOS M 4–16	**358 477**	CFBSOA M 4–16	–
			18.0	7.11	7.9	9.5	8.0	CFBSO M 4–18	**358 428**	CFBSOS M 4–18	–	CFBSOA M 4–18	–
			20.0	7.11	7.9	9.5	8.0	CFBSO M 4–20	**358 429**	CFBSOS M 4–20	–	CFBSOA M 4–20	–
			22.0	7.11	7.9	9.5	8.0	CFBSO M 4–22	**358 430**	CFBSOS M 4–22	**358 454**	CFBSOA M 4–22	–
M 5	7.2	1.3	25.0	7.11	7.9	9.5	8.0	CFBSO M 4–25	**358 431**	CFBSOS M 4–25	**358 481**	CFBSOA M 4–25	–
			8.0	7.11	7.9	4.0	8.0	CFBSO M 5–8	–	CFBSOS M 5–8	–	CFBSOA M 5–8	–
			10.0	7.11	7.9	4.0	8.0	CFBSO M 5–10	**358 444**	CFBSOS M 5–10	–	CFBSOA M 5–10	–
			12.0	7.11	7.9	5.0	8.0	CFBSO M 5–12	**358 445**	CFBSOS M 5–12	**358 484**	CFBSOA M 5–12	–
			14.0	7.11	7.9	6.5	8.0	CFBSO M 5–14	–	CFBSOS M 5–14	–	CFBSOA M 5–14	–
			16.0	7.11	7.9	6.5	8.0	CFBSO M 5–16	**358 447**	CFBSOS M 5–16	**358 486**	CFBSOA M 5–16	–
			18.0	7.11	7.9	9.5	8.0	CFBSO M 5–18	–	CFBSOS M 5–18	**358 487**	CFBSOA M 5–18	–
			20.0	7.11	7.9	9.5	8.0	CFBSO M 5–20	–	CFBSOS M 5–20	–	CFBSOA M 5–20	–
			22.0	7.11	7.9	9.5	8.0	CFBSO M 5–22	**358 450**	CFBSOS M 5–22	–	CFBSOA M 5–22	–
			25.0	7.11	7.9	9.5	8.0	CFBSO M 5–25	**358 452**	CFBSOS M 5–25	–	CFBSOA M 5–25	–

[1] *Thread length*

Die for drill hole diam. = Dimension “A” +0.10/+0.18 mm.

Technical data see page 218

We reserve the right to amend specifications at any time.

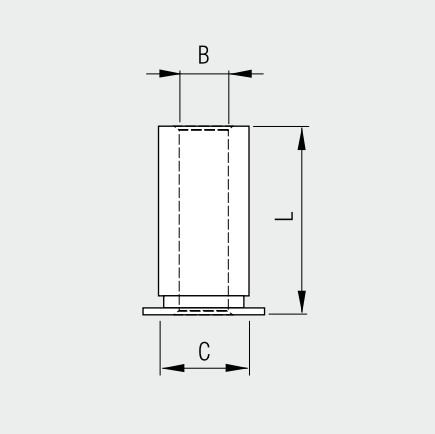
Press-in bushes for metals

Material

Steel zinc (CFSO series)
Suitable for metal hardnesses up to HRB 80

Stainless steel (CFSOS series)
Suitable for metal hardnesses up to HRB 70

Aluminium (CFSOA series)
Suitable for metal hardnesses up to HRB 50



Bore-ø B +0.08 -0.00 [mm]	Hole-ø +0.08 -0.00 [mm]	Material thickness min [mm]	L +0.05 -0.13 [mm]	C +0.00 -0.13 [mm]	SW [mm]	min [mm]	Steel Description	Steel Part No.	Stainless steel Description	Stainless steel Part No.	Aluminium Description	Aluminium Part No.
3.1	4.2	1.0	3.0	4.19	4.8	6.0	CFSO 43.1–3	–	CFSOS 43.1–3	–	CFSOA 43.1–3	–
			4.0	4.19	4.8	6.0	CFSO 43.1–4	–	CFSOS 43.1–4	–	CFSOA 43.1–4	–
			6.0	4.19	4.8	6.0	CFSO 43.1–6	–	CFSOS 43.1–6	–	CFSOA 43.1–6	–
			8.0	4.19	4.8	6.0	CFSO 43.1–8	–	CFSOS 43.1–8	–	CFSOA 43.1–8	–
			10.0	4.19	4.8	6.0	CFSO 43.1–10	–	CFSOS 43.1–10	–	CFSOA 43.1–10	–
			12.0	4.19	4.8	6.0	CFSO 43.1–12	–	CFSOS 43.1–12	–	CFSOA 43.1–12	–
			14.0	4.19	4.8	6.0	CFSO 43.1–14	–	CFSOS 43.1–14	–	CFSOA 43.1–14	–
			16.0	4.19	4.8	6.0	CFSO 43.1–16	–	CFSOS 43.1–16	–	CFSOA 43.1–16	–
			18.0	4.19	4.8	6.0	CFSO 43.1–18	–	CFSOS 43.1–18	–	CFSOA 43.1–18	–
			20.0	4.19	4.8	6.0	CFSO 43.1–20	–	CFSOS 43.1–20	–	CFSOA 43.1–20	–
3.1	5.4	1.0	3.0	5.38	6.4	6.8	CFSO 63.1–3	–	CFSOS 63.1–3	–	CFSOA 63.1–3	–
			4.0	5.38	6.4	6.8	CFSO 63.1–4	–	CFSOS 63.1–4	–	CFSOA 63.1–4	–
			6.0	5.38	6.4	6.8	CFSO 63.1–6	**358 963**	CFSOS 63.1–6	–	CFSOA 63.1–6	–
			8.0	5.38	6.4	6.8	CFSO 63.1–8	–	CFSOS 63.1–8	–	CFSOA 63.1–8	–
			10.0	5.38	6.4	6.8	CFSO 63.1–10	–	CFSOS 63.1–10	–	CFSOA 63.1–10	–
			12.0	5.38	6.4	6.8	CFSO 63.1–12	–	CFSOS 63.1–12	–	CFSOA 63.1–12	–
			14.0	5.38	6.4	6.8	CFSO 63.1–14	–	CFSOS 63.1–14	–	CFSOA 63.1–14	–
			16.0	5.38	6.4	6.8	CFSO 63.1–16	–	CFSOS 63.1–16	–	CFSOA 63.1–16	–
			18.0	5.38	6.4	6.8	CFSO 63.1–18	–	CFSOS 63.1–18	–	CFSOA 63.1–18	–
			20.0	5.38	6.4	6.8	CFSO 63.1–20	–	CFSOS 63.1–20	–	CFSOA 63.1–20	–
3.6	5.4	1.0	3.0	5.38	6.4	6.8	CFSO 63.6–3	–	CFSOS 63.6–3	–	CFSOA 63.6–3	–
			4.0	5.38	6.4	6.8	CFSO 63.6–4	–	CFSOS 63.6–4	–	CFSOA 63.6–4	–
			6.0	5.38	6.4	6.8	CFSO 63.6–6	–	CFSOS 63.6–6	–	CFSOA 63.6–6	–
			8.0	5.38	6.4	6.8	CFSO 63.6–8	–	CFSOS 63.6–8	–	CFSOA 63.6–8	–
			10.0	5.38	6.4	6.8	CFSO 63.6–10	**358 967**	CFSOS 63.6–10	–	CFSOA 63.6–10	–
			12.0	5.38	6.4	6.8	CFSO 63.6–12	**358 966**	CFSOS 63.6–12	–	CFSOA 63.6–12	–
			14.0	5.38	6.4	6.8	CFSO 63.6–14	–	CFSOS 63.6–14	–	CFSOA 63.6–14	–
			16.0	5.38	6.4	6.8	CFSO 63.6–16	–	CFSOS 63.6–16	–	CFSOA 63.6–16	–
			18.0	5.38	6.4	6.8	CFSO 63.6–18	–	CFSOS 63.6–18	–	CFSOA 63.6–18	–
			20.0	5.38	6.4	6.8	CFSO 63.6–20	–	CFSOS 63.6–20	–	CFSOA 63.6–20	–

Die for drill hole diam. = Dimension “A” +0.10/+0.18 mm.

Continued next page

Continued

Bore-ø B [mm]	Hole-ø *+0.08 -0.00* [mm]	Material thick-ness *min* [mm]	L *+0.05 -0.13* [mm]	C *+0.00 -0.13* [mm]	SW [mm]	 *min* [mm]	**Steel** Description	**Part No.**	**Stainless steel** Description	**Part No.**	**Aluminium** Description	**Part No.**
3.6	7.2	1.3	3.0	7.11	7.9	8.0	CFSO 83.6–3	–	CFSOS 83.6–3	–	CFSOA 83.6–3	–
			4.0	7.11	7.9	8.0	CFSO 83.6–4	–	CFSOS 83.6–4	–	CFSOA 83.6–4	–
			6.0	7.11	7.9	8.0	CFSO 83.6–6	–	CFSOS 83.6–6	–	CFSOA 83.6–6	–
			8.0	7.11	7.9	8.0	CFSO 83.6–8	–	CFSOS 83.6–8	–	CFSOA 83.6–8	–
			10.0	7.11	7.9	8.0	CFSO 83.6–10	–	CFSOS 83.6–10	–	CFSOA 83.6–10	–
			12.0	7.11	7.9	8.0	CFSO 83.6–12	–	CFSOS 83.6–12	–	CFSOA 83.6–12	–
			14.0	7.11	7.9	8.0	CFSO 83.6–14	–	CFSOS 83.6–14	–	CFSOA 83.6–14	–
			16.0	7.11	7.9	8.0	CFSO 83.6–16	–	CFSOS 83.6–16	–	CFSOA 83.6–16	–
			18.0	7.11	7.9	8.0	CFSO 83.6–18	–	CFSOS 83.6–18	–	CFSOA 83.6–18	–
			20.0	7.11	7.9	8.0	CFSO 83.6–20	–	CFSOS 83.6–20	–	CFSOA 83.6–20	–
4.1	7.2	1.3	3.0	7.11	7.9	8.0	CFSO 84.1–3	–	CFSOS 84.1–3	–	CFSOA 84.1–3	–
			4.0	7.11	7.9	8.0	CFSO 84.1–4	–	CFSOS 84.1–4	–	CFSOA 84.1–4	–
			6.0	7.11	7.9	8.0	CFSO 84.1–6	–	CFSOS 84.1–6	–	CFSOA 84.1–6	–
			8.0	7.11	7.9	8.0	CFSO 84.1–8	–	CFSOS 84.1–8	–	CFSOA 84.1–8	–
			10.0	7.11	7.9	8.0	CFSO 84.1–10	–	CFSOS 84.1–10	–	CFSOA 84.1–10	–
			12.0	7.11	7.9	8.0	CFSO 84.1–12	–	CFSOS 84.1–12	–	CFSOA 84.1–12	–
			14.0	7.11	7.9	8.0	CFSO 84.1–14	–	CFSOS 84.1–14	–	CFSOA 84.1–14	–
			16.0	7.11	7.9	8.0	CFSO 84.1–16	–	CFSOS 84.1–16	–	CFSOA 84.1–16	–
			18.0	7.11	7.9	8.0	CFSO 84.1–18	**358 679**	CFSOS 84.1–18	–	CFSOA 84.1–18	–
			20.0	7.11	7.9	8.0	CFSO 84.1–20	–	CFSOS 84.1–20	–	CFSOA 84.1–20	–
5.1	7.2	1.3	3.0	7.11	7.9	8.0	CFSO 85.1–3	–	CFSOS 85.1–3	–	CFSOA 85.1–3	–
			4.0	7.11	7.9	8.0	CFSO 85.1–4	**358 671**	CFSOS 85.1–4	–	CFSOA 85.1–4	–
			6.0	7.11	7.9	8.0	CFSO 85.1–6	–	CFSOS 85.1–6	–	CFSOA 85.1–6	–
			8.0	7.11	7.9	8.0	CFSO 85.1–8	–	CFSOS 85.1–8	–	CFSOA 85.1–8	–
			10.0	7.11	7.9	8.0	CFSO 85.1–10	–	CFSOS 85.1–10	–	CFSOA 85.1–10	–
			12.0	7.11	7.9	8.0	CFSO 85.1–12	–	CFSOS 85.1–12	–	CFSOA 85.1–12	–
			14.0	7.11	7.9	8.0	CFSO 85.1–14	–	CFSOS 85.1–14	–	CFSOA 85.1–14	–
			16.0	7.11	7.9	8.0	CFSO 85.1–16	–	CFSOS 85.1–16	–	CFSOA 85.1–16	–
			18.0	7.11	7.9	8.0	CFSO 85.1–18	**358 678**	CFSOS 85.1–18	–	CFSOA 85.1–18	–
			20.0	7.11	7.9	8.0	CFSO 85.1–20	–	CFSOS 85.1–20	–	CFSOA 85.1–20	–

Die for drill hole diam. = Dimension “A” +0.10/+0.18 mm.

Technical data

Thread/ hole-ø B	Fastener material	**Sheet material aluminium (H 34) 1.5 mm** Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Push-through strength [N]	**Sheet material steel 1.5 mm** Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Push-through strength [N]
M 3	Steel	4.7	700	1.20	1230	9.6	990	2.10	1450
3.1	Stainless steel	4.7	700	1.20	985	9.6	990	2.10	1150
	Aluminium	4.7	700	1.20	740	–	–	–	–
M 3 / M 3.5	Steel	7.4	1310	2.79	1350	14.5	1850	3.90	1670
3.1/3.6	Stainless steel	7.4	1310	2.79	1100	14.5	1850	3.90	1350
	Aluminium	7.4	1310	2.79	810	–	–	–	–
M 4 / M 5	Steel	10.5	1750	5.01	2550	17.6	2460	8.45	3100
3.1/4.1/5.1	Stainless steel	10.5	1750	5.01	2020	17.6	2460	8.45	2450
	Aluminium	10.5	1750	5.01	1525	–	–	–	–

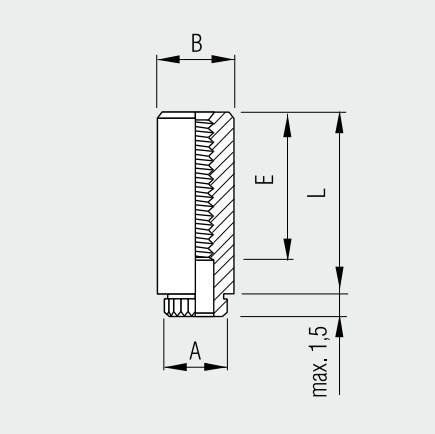
Guidelines - the precise values must be determined using the original component. We reserve the right to amend specifications at any time.

Press-in bushes for plastics
with thread

Material

Steel (CKFE series)
- Electrolytically tin plated
- Suitable for metal hardnesses up to HRB 60

Stainless steel (CKFSE series)
Suitable for metal hardnesses up to HRB 70



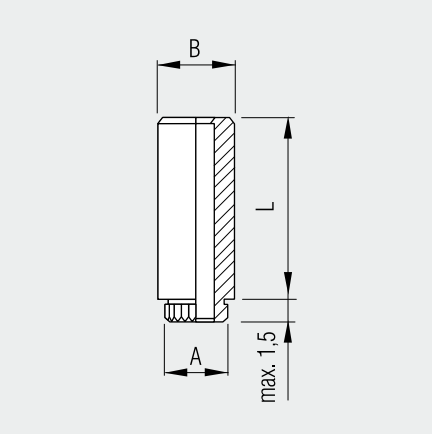
Thread	Hole-ø	L	A	B	E		Steel		Stainless steel	
	+0.08 -0.00 [mm]	*±0.13* [mm]	*±0.08* [mm]	*±0.13* [mm]	[1]*±0.4* [mm]	*min* [mm]	Description	**Part No.**	Description	**Part No.**
M 3	4.2	3.0	4.68	5.56	3.0	4.4	CKFE M 3–3	**358 655**	CKFSE M 3–3	–
		4.0	4.68	5.56	4.0	4.4	CKFE M 3–4	–	CKFSE M 3–4	–
		6.0	4.68	5.56	6.0	4.4	CKFE M 3–6	**358 657**	CKFSE M 3–6	–
		8.0	4.68	5.56	8.0	4.4	CKFE M 3–8	**358 658**	CKFSE M 3–8	–
		10.0	4.68	5.56	10.0	4.4	CKFE M 3–10	–	CKFSE M 3–10	–
		12.0	4.68	5.56	9.5[1]	4.4	CKFE M 3–12	–	CKFSE M 3–12	–
		14.0	4.68	5.56	9.5[1]	4.4	CKFE M 3–14	–	CKFSE M 3–14	–
		16.0	4.68	5.56	9.5[1]	4.4	CKFE M 3–16	–	CKFSE M 3–16	–

Technical data

Thread	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	2.22	200	1.35

Guidelines - the precise values must be determined using the original component.

We reserve the right to amend specifications at any time.



Press-in bushes for plastics
without thread

Material

Steel electrolytically tin plated (CKFE series)
Suitable for metal hardnesses up to HRB 60

Stainless steel (CKFSE series)
Suitable for metal hardnesses up to HRB 70

Bushes ø	Hole-ø	L	A	B		**Steel**		**Stainless steel**	
+0.10 -0.08	*+0.08 -0.00*	*±0.13*	*±0.08*	*±0.13*	*min*				
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	Description	**Part No.**	Description	**Part No.**
3.6	5.4	3.0	5.87	7.14	5.5	CKFE 3.6–3	–	CKFSE 3.6–3	–
		4.0	5.87	7.14	5.5	CKFE 3.6–4	**358 964**	CKFSE 3.6–4	–
		6.0	5.87	7.14	5.5	CKFE 3.6–6	**358 969**	CKFSE 3.6–6	–
		8.0	5.87	7.14	5.5	CKFE 3.6–8	**358 968**	CKFSE 3.6–8	–
		10.0	5.87	7.14	5.5	CKFE 3.6–10	–	CKFSE 3.6–10	–
		12.0	5.87	7.14	5.5	CKFE 3.6–12	–	CKFSE 3.6–12	–
		14.0	5.87	7.14	5.5	CKFE 3.6–14	**358 987**	CKFSE 3.6–14	–
		16.0	5.87	7.14	5.5	CKFE 3.6–16	–	CKFSE 3.6–16	–
4.2	6.4	3.0	6.81	8.74	7.1	CKFE 4.2–3	–	CKFSE 4.2–3	–
		4.0	6.81	8.74	7.1	CKFE 4.2–4	–	CKFSE 4.2–4	–
		6.0	6.81	8.74	7.1	CKFE 4.2–6	–	CKFSE 4.2–6	–
		8.0	6.81	8.74	7.1	CKFE 4.2–8	–	CKFSE 4.2–8	–
		10.0	6.81	8.74	7.1	CKFE 4.2–10	–	CKFSE 4.2–10	–
		12.0	6.81	8.74	7.1	CKFE 4.2–12	–	CKFSE 4.2–12	–
		14.0	6.81	8.74	7.1	CKFE 4.2–14	–	CKFSE 4.2–14	–
		16.0	6.81	8.74	7.1	CKFE 4.2–16	–	CKFSE 4.2–16	–

Technical data

Internal-ø	Fibre glass 1.5 mm		
	Press-in force	Push-out force	Torsional strength
[mm]	[kN]	[N]	[Nm]
3.6	2.22	200	1.35
4.2	2.22	200	1.35

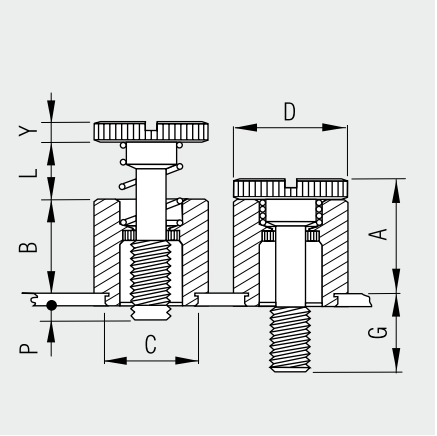
Guidelines - the precise values must be determined using the original component.

We reserve the right to amend specifications at any time.

Quick-release screws for metals

Material

Stainless steel (CPFC2 series)
- Suitable for metal hardnesses up to HRB 70
- Min. material thickness 1.5 mm



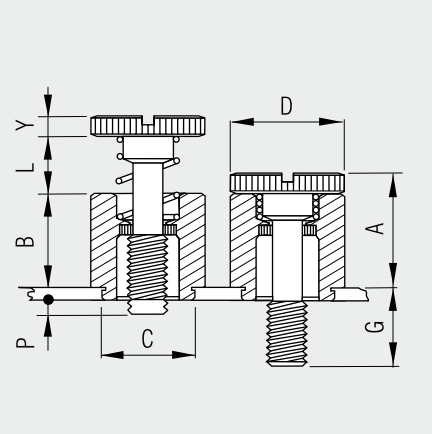
Thread	Hole-ø +0.08 -0.00 [mm]	A max [mm]	B ±0.25 [mm]	C max [mm]	D +0.40 -0.25 [mm]	G +0.4 [mm]	L +0.4 [mm]	P +0.4 [mm]	Y ±0.13 [mm]	 min [mm]	Description	**Part No.**
M 3	6.75	9.1	7.2	6.7	7.9	6.4	4.8	0.0	1.83	6.4	CPFC2 M 3–40	**358 744**
						9.5	4.8	3.2	1.83	6.4	CPFC2 M 3–62	**358 746**
						12.7	4.8	6.4	1.83	6.4	CPFC2 M 3–84	**–**
M 4	7.95	11.4	9.3	7.9	9.5	7.9	6.4	0.0	2.08	7.9	CPFC2 M 4–50	**358 745**
						11.1	6.4	3.2	2.08	7.9	CPFC2 M 4–72	**358 754**
						14.3	6.4	6.4	2.08	7.9	CPFC2 M 4–94	**–**
M 5	8.75	11.4	9.3	8.7	10.3	7.9	6.4	0.0	2.08	8.7	CPFC2 M 5–50	**–**
						11.1	6.4	3.2	2.08	8.7	CPFC2 M 5–72	**–**
						14.3	6.4	6.4	2.08	8.7	CPFC2 M 5–94	**358 757**
M 6	10.50	14.6	12.0	10.5	11.9	9.5	7.9	0.0	2.49	9.5	CPFC2 M 6–60	**–**
						12.7	7.9	3.2	2.49	9.5	CPFC2 M 6–82	**–**
						15.9	7.9	6.4	2.49	9.5	CPFC2 M 6–04	**–**

Technical data

Thread	Sheet material			
	Steel		**Aluminium (H 34)**	
	Press-in force [kN]	Push-out force [N]	Press-in force [kN]	Push-out force [N]
M 3	13.3	1330	10.7	1070
M 4	16.9	1780	12.9	1330
M 5	17.8	2220	13.3	1780
M 6	22.2	2670	15.6	1780

Guidelines - the precise values must be determined using the original component.

We reserve the right to amend specifications at any time.



Quick-release screws for plastics

Material

Stainless steel (CPFK series)
min. material thickness 1.5 mm

Thread	Hole-ø *+0.08 -0.00* [mm]	A *max* [mm]	B *±0.25* [mm]	C *±0.08* [mm]	D *+0.40 -0.25* [mm]	G *+0.4* [mm]	L *+0.4* [mm]	P *+0.4* [mm]	Y *±0.13* [mm]	 *min* [mm]	Description	**Part No.**
M 3	6.75	9.1	7.2	7.28	8.2	6.4	4.8	0.0	1.9	5.1	CPFK M 3–40	**358 734**
						9.5	4.8	3.2	1.9	5.1	CPFK M 3–62	–
						12.7	4.8	6.4	1.9	5.1	CPFK M 3–84	–

Technical data

Thread	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	1.1	245	3

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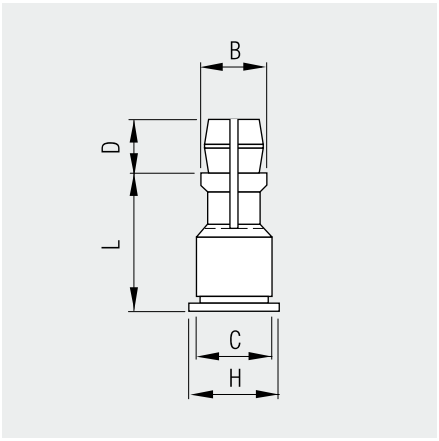
Spacer for metals

Material

Aluminium (CFSSA series)
Suitable for metal hardnesses up to HRB 50

Steel zinc (CFSSS series)
Suitable for metal hardnesses up to HRB 60

Stainless steel (CFSSA series)
Suitable for metal hardnesses up to HRB 70



Fastening hole for movable plate [mm]	L ±0.13 [mm]	B ±0.13 [mm]	C max [mm]	D ±0.13 [mm]	H ±0.13 [mm]	Aluminium Description	Aluminium Part No.	Stainless steel Description	Stainless steel Part No.	Steel Description	Steel Part No.
4	8.0	4.77	5.38	3.58	6.35	CFSSA 4-8	**358 880**	CFSSC 4–8	**358 860**	CFSSS 4–8	**358 870**
	10.0	4.77	5.38	3.58	6.35	CFSSA 4-10	–	CFSSC 4–10	–	CFSSS 4–10	**358 875**
	12.0	4.77	5.38	3.58	6.35	CFSSA 4-12	–	CFSSC 4–12	–	CFSSS 4–12	**358 872**
	14.0	4.77	5.38	3.58	6.35	CFSSA 4-14	–	CFSSC 4–14	–	CFSSS 4–14	–
	16.0	4.77	5.38	3.58	6.35	CFSSA 4-16	–	CFSSC 4–16	–	CFSSS 4–16	**358 874**
	18.0	4.77	5.38	3.58	6.35	CFSSA 4-18	–	CFSSC 4–18	–	CFSSS 4–18	–
	20.0	4.77	5.38	3.58	6.35	CFSSA 4-20	–	CFSSC 4–20	–	CFSSS 4–20	–
	22.0	4.77	5.38	3.58	6.35	CFSSA 4-22	–	CFSSC 4–22	–	CFSSS 4–22	–
	25.0	4.77	5.38	3.58	6.35	CFSSA 4-25	–	CFSSC 4–25	–	CFSSS 4–25	–

Die for drill hole diam. = Dimension “A” +0.10/+0.18 mm.

Technical data

Type	Fixed plate: Fastening hole for fixed plate +0.08 -0.00 [mm]	Material	Hardness max HRB	Material thickness min [mm]	min [mm]	Positional tolerance min [mm]	Movable plate: Fastening hole for movable plate +0,08 -0,00 [mm]	Material Steel 1.5 mm	Material thickness [mm]	min [mm]
CFSSA	5.4	metal	HRB 50	1	6.6	± 0.013	4.0	Circuit board or metal	1 – 1.8	2.5
CFSSS	5.4	metal	HRB 60	1	6.6	± 0.013	4.0	Circuit board or metal	1 – 1.8	2.5
CFSSC	5.4	metal	HRB 70	1	6.6	± 0.013	4.0	Circuit board or metal	1 – 1.8	2.5

Technical data

Type	Fixed plate: Material	Press-in force [kN]	Push-out force [N]	Movable plate: Press-in force 1 time max [N]	Push-out force 1 time min [N]	Push-out force after 15 times max [N]
CFSSA	1.0 Aluminium HRB 25	6.7	880	44	13	4
CFSSS	1.0 Aluminium HRB 25	6.7	880	89	27	9
CFSSC	1.5 Steel HRB 64	16.0	2670	89	27	9

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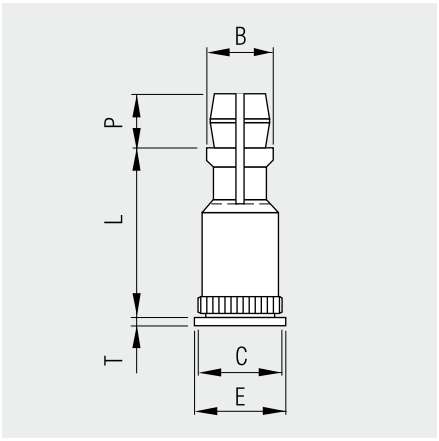

Spacer for printed circuit boards

Material

Brass (CFKSSB series)
- No surface treatment
- Suitable for metal hardnesses up to HRB 60

Fastening hole for movable plate [mm]	L *±0.13* [mm]	B *±0.13* [mm]	C *max* [mm]	E *±0.13* [mm]	P *±0.13* [mm]	T *±0.13* [mm]	Description	**Part No.**
4	8.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4–8	–
	10.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4–10	–
	12.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4–12	–
	14.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4–14	–
	16.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4–16	–
	18.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4–18	–
	20.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4–20	–
	22.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4–22	–
	25.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4–25	–

Die for drill hole diam. = Dimension “C” +0.10/+0.18 mm.

Technical data

Type	**Fixed plate**						**Movable plate**			
	Fastening hole for fixed plate *+0.08 -0.00* [mm]	Material	Hardness *max* HRB	Material thickness *max* [mm]	 *min* [mm]	Positional toleranche *min* [mm]	Fastening hole for movable plate *+0,08 -0,00* [mm]	Material Steel 1.5 mm	Material thickness [mm]	 *min* [mm]
CFKSSB	5.4	Circuit boards	HRB 65	1.25	5.6	± 0.013	4,.0	Circuit board or metal	1 – 1.8	2.5

Technical data

Type	**Fixed plate**			**Movable plate**		
	Material	Press-in forche [kN]	Push-out force [N]	Press-in force 1 time max [N]	Push-out force 1 time min [N]	Push-out force after 15 times max [N]
CFKSSB	1.52 FR-4 fibre glass	2.2	484	58	13	4

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NOTES