STRUCTURAL LOCKBOLTS

2803 Avdelok

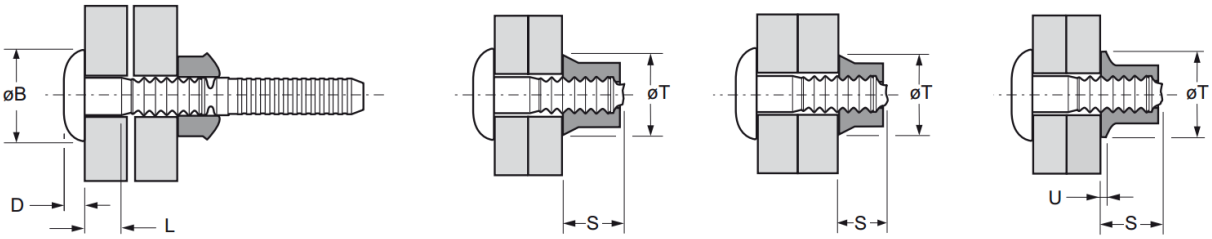
Aluminium · Truss head
4.8 mm (3/16″) - 9.6 mm (3/8″)

Features

- High shear strength for high strength assembly
- High controlled clamp provides excellent vibration resistance
- Quick to install across a wide range of applications
- Easy to inspect for tampering
- High security tamper resistance - TIR approved
- Robust and rugged installation tools

Material

- Pin: Aluminium alloy, polished *(AA 2024, DIN 1725, AlCuMg2, Werkstoff 3.1355)*
- Collar: Aluminium alloy, natural *(BS 1473 6061, AA 6061, DIN 1725 AlMg1SiCu, Werkstoff 3.3211)*



Part No. Pin	Size ø	w. Full Collar(1)		Hole Size	L	øB	D	Part No. Full Collar		Part No. Half Collar(1)		Part No. Flanged Collar(2)		
	nom.	min.	max.	-	nom.	max.	max.	S max.	øT max.	S max.	øT max.	S max.	øT max.	U nom.
02803-00602	4.8 (3/16″)	1.57	4.75	5.0	1.57	12.0	2.2	02837-00600		02838-00600		02839-00600		
02803-00603		3.18	6.35		3.18			9.4	8.0	7.9	8.0	10.2	9.9	0.76
02803-00604		4.75	7.92		4.75									
02803-00605		6.35	9.53		6.35									
02803-00606		7.92	11.10		7.92									
02803-00607		9.53	12.70		9.53									
02803-00608		11.10	14.27		11.10									
02803-00609		12.70	15.88		12.70									
02803-00610		14.27	17.45		14.27									
02803-00611		15.88	19.05		15.88									
02803-00612		17.45	20.62		17.45									
02803-00613		19.05	22.23		19.05									
02803-00614		20.62	23.80		20.62									
02803-00615		22.23	25.40		22.23									
02803-00616		23.80	26.97		23.80									
02803-00617		25.40	28.58		25.40									
02803-00618		26.97	30.15		26.97									
02803-00619		28.58	31.75		28.58									
02803-00620		30.15	33.32		30.15									

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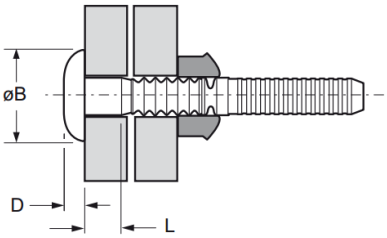
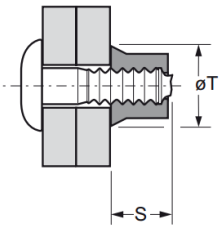
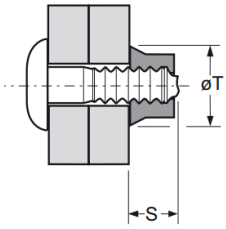
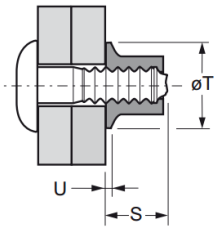




Full Collar



Half Collar



Flanged Collar

Part No. Pin	Size ø	w. Full Collar(1)		Hole Size	L	øB	D	Part No. Full Collar		Part No. Half Collar(1)		Part No. Flanged Collar(2)		
	nom.	min.	max.	-	nom.	max.	max.	S max.	øT max.	S max.	øT max.	S max.	øT max.	U nom.
02803-00802	6.4 (1/4″)	1.57	4.75	6.6	1.57	15.1	2.8	02837-00800		02838-00800		02839-00800		
02803-00803		3.18	6.35		3.18			12.2	10.6	10.7	10.6	13.2	13.1	0.94
02803-00804		4.75	7.92		4.75									
02803-00805		6.35	9.53		6.35									
02803-00806		7.92	11.10		7.92									
02803-00807		9.53	12.70		9.53									
02803-00808		11.10	14.27		11.10									
02803-00809		12.70	15.88		12.70									
02803-00810		14.27	17.45		14.27									
02803-00811		15.88	19.05		15.88									
02803-00812		17.45	20.62		17.45									
02803-00813		19.05	22.23		19.05									
02803-00814		20.62	23.80		20.62									
02803-00815		22.23	25.40		22.23									
02803-00816		23.80	26.97		23.80									
02803-00818		26.97	30.15		26.97									
02803-00820		30.15	33.32		30.15									
02803-00821		31.75	34.93		31.75									
02803-01004	8.0 (5/16″)	3.18	9.53	8.2	3.18	19.9	3.6	02837-01000		02838-01000		02839-01000		
02803-01006		6.35	12.70		6.35			15.5	13.3	12.5	13.3	16.8	16.3	1.22
02803-01008		9.53	15.88		9.53									
02803-01010		12.70	19.05		12.70									
02803-01012		15.88	22.23		15.88									
02803-01014		19.05	25.40		19.05									
02803-01016		22.23	28.58		22.23									
02803-01018		25.40	31.75		25.40									
02803-01020		28.58	34.93		28.58									
02803-01022		31.75	38.10		31.75									
02803-01024		34.93	41.28		34.93									
02803-01026		38.10	44.45		38.10									
02803-01028		41.28	47.63		41.28									
02803-01030		44.45	50.80		44.45									
02803-01032		47.63	53.98		47.63									

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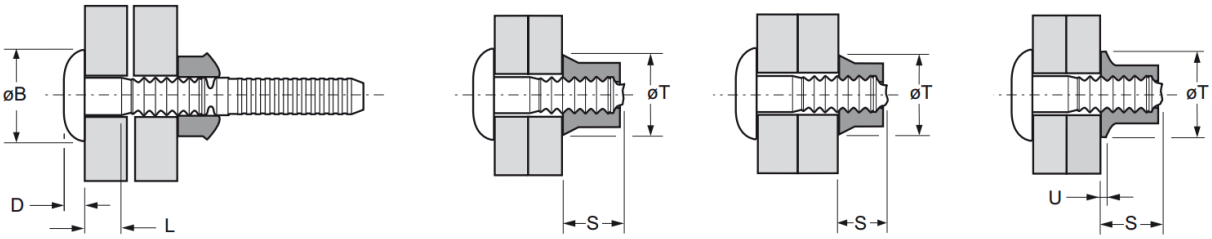


Part No. Pin	Size ø	w. Full Collar(1)		Hole Size	L	øB	D	Part No. Full Collar		Part No. Half Collar(1)		Part No. Flanged Collar(2)		
	nom.	min.	max.	-	nom.	max.	max.	S max.	øT max.	S max.	øT max.	S max.	øT max.	U nom.
02803-01204	9.6 (3/8″)	3.18	9.53	9.8	3.18	23.5	4.1	02837-01200		02838-01200		02839-01200		
02803-01206		6.35	12.70		6.35			18.6	15.5	15.5	15.5	20.0	20.0	1.42
02803-01208		9.53	15.88		9.53									
02803-01210		12.70	19.05		12.70									
02803-01212		15.88	22.23		15.88									
02803-01214		19.05	25.40		19.05									
02803-01216		22.23	28.58		22.23									
02803-01218		25.40	31.75		25.40									
02803-01220		28.58	34.93		28.58									
02803-01222		31.75	38.10		31.75									
02803-01224		34.93	41.28		34.93									
02803-01226		38.10	44.45		38.10									
02803-01228		41.28	47.63		41.28									
02803-01230		44.45	50.80		44.45									
02803-01232		47.63	53.98		47.63									

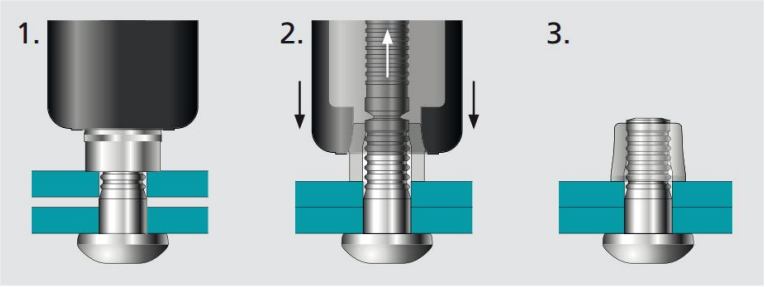
Size ø	Shear(3)	Tension(3)
nom.	kN	kN
4.8	4.67	4.72
6.4	8.34	7.92
8.0	13.02	12.68
9.6	18.69	18.68

1) Half collars increase the grip range to that of the next longest pin. Maximum grip increases by 1.57 mm for 4.8 mm and 6.4 mm fasteners and 3.18 mm for 8.0 mm and 9.6 mm fasteners.

2) Flanged collars are used in applications where the hole on the collar side of the application is oversize or is slotted for alignment purposes. To determine what length of pin is required, add dimension U to the thickness of material being fastened.

3) These figures represent minimum fastener shear and tensile strength values with the use of a full or flanged collar. When using half collars tension is reduced to approximately 45%.

Typical placing sequence (Brazier head style shown for illustration):



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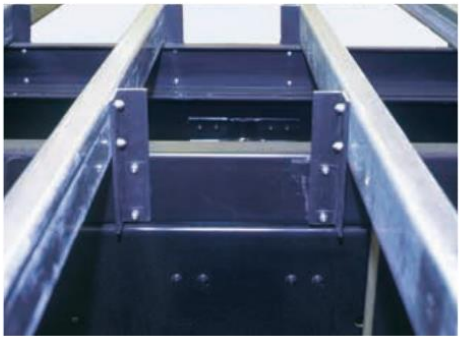
Assembly Applications

- Commercial vehicles
- Truck & trailer
- Heating systems
- Steel construction
- Solar panels
- Railway
- Mining

Heating systems

Commercial vehicles



Ventilator frame

Car seat