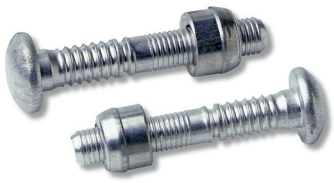
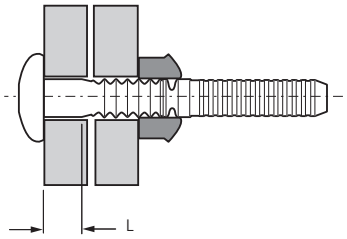
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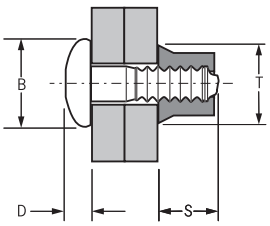


English	Français	Deutsch	Italiano	Español
Brazier head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Pin: Aluminium alloy* Polished	Tige: Alliage d'aluminium* Poli	Bolzen: Aluminium* Poliert	Bullone: Lega di alluminio* Lucido	Vástago: Aluminio* Pulido
Collar: Aluminium alloy**	Bague: Alliage d'aluminium**	Schließring: Aluminium**	Collare: Lega di alluminio**	Collar: Aluminio**
Natural	Brut	Blank	Nessuna finitura	Natural

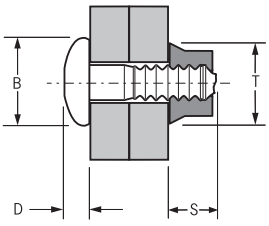
*: AA 2024, DIN 1725, AlCuMg2, Werkstoff 3.1355 **: BS 1473 6061, AA 6061, DIN 1725 AlMg1SiCu, Werkstoff 3.3211



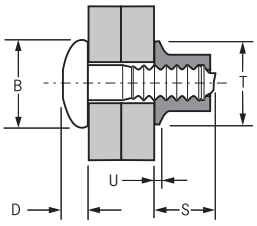
Full Collar
Schließring Standard
Bague Standard
Collare Standard
Collar Estándar



Half Collar
Schließring flach
Bague courte
Collare ribassato
Medio Collar



Flanged Collar
Schließring mit Bund
Bague à embase
Collare flangiato
Collar con Ala



ø	w. Full Collar[2]			L	B	D	Part No/ref	Part No/ref Full Collar		Part No/ref Half Collar[2]		Part No/ref Flanged Collar[3]		
nom.	min.	max.		nom.	max.	max.	Pin[1]	S max.	T max.	S max.	T max.	S max.	T max.	U[3] nom.
4.8 (3/16")	1.57	4.75	5.0	1.57	10.1	3.4	02801-00602	02837-00600		02838-00600		02839-00600		
	3.18	6.35		3.18			02801-00603							
	4.75	7.92		4.75			02801-00604							
	6.35	9.53		6.35			02801-00605							
	7.92	11.10		7.92			02801-00606							
	9.53	12.70		9.53			02801-00607							
	11.10	14.27		11.10			02801-00608							
	12.70	15.88		12.70			02801-00609	9.4	8.0	7.9	8.0	10.2	9.9	0.76
	14.27	17.45		14.27			02801-00610							
	15.88	19.05		15.88			02801-00611							
	17.45	20.62		17.45			02801-00612							
	19.05	22.23		19.05			02801-00613							
	20.62	23.80		20.62			02801-00614							
	22.23	25.40		22.23			02801-00615							

all dimensions in mm / en millimètre / alle Maße in mm / in millimetri / en milimetros
1), 2), 3) see last page / voir page 3 / siehe letzte Seite / vedi pagina 3 / ver Pág. 3

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ø	w. Full Collar[2]			L	B	D	Part No/ref	Part No/ref Full Collar		Part No/ref Half Collar[2]		Part No/ref Flanged Collar[3]		
nom.	min.	max.		nom.	max.	max.	Pin[1]	S max.	T max.	S max.	T max.	S max.	T max.	U[3] nom.
4.8 (3/16")	23.80	26.97	5.0	23.80	10.1	3.4	02801-00616	02837-00600		02838-00600		02839-00600		
	25.40	28.58		25.40			02801-00617							
	26.97	30.15		26.97			02801-00618	9.4	8.0	7.9	8.0	10.2	9.9	0.76
	28.58	31.75		28.58			02801-00619							
	30.15	33.32		30.15			02801-00620							
6.4 (1/4")	1.57	4.75	6.6	1.57	13.4	4.1	02801-00802	02837-00800		02838-00800		02839-00800		
	3.18	6.35		3.18			02801-00803							
	4.75	7.92		4.75			02801-00804							
	6.35	9.53		6.35			02801-00805							
	7.92	11.10		7.92			02801-00806							
	9.53	12.70		9.53			02801-00807							
	11.10	14.27		11.10			02801-00808							
	12.70	15.88		12.70			02801-00809							
	14.27	17.45		14.27			02801-00810							
	15.88	19.05		15.88			02801-00811	12.2	10.6	10.7	10.6	13.2	13.1	0.94
	17.45	20.62		17.45			02801-00812							
	19.05	22.23		19.05			02801-00813							
	20.62	23.80		20.62			02801-00814							
	22.23	25.40		22.23			02801-00815							
	23.80	26.97		23.80			02801-00816							
	26.97	30.15		26.97			02801-00818							
	30.15	33.32		30.15			02801-00820							
	31.75	34.93		31.75			02801-00821							
8.0 (5/16")	3.18	9.53	8.2	3.18	16.7	5.5	02801-01004	02837-01000		02838-01000		02839-01000		
	6.35	12.70		6.35			02801-01006							
	9.53	15.88		9.53			02801-01008							
	12.70	19.05		12.70			02801-01010							
	15.88	22.23		15.88			02801-01012							
	19.05	25.40		19.05			02801-01014							
	22.23	28.58		22.23			02801-01016							
	25.40	31.75		25.40			02801-01018							
	28.58	34.93		28.58			02801-01020	15.5	13.3	12.5	13.3	16.8	16.3	1.22
	31.75	38.10		31.75			02801-01022							
	34.93	41.28		34.93			02801-01024							
	38.10	44.45		38.10			02801-01026							
	41.28	47.63		41.28			02801-01028							
	44.45	50.80		44.45			02801-01030							
	47.63	53.98		47.63			02801-01032							

all dimensions in mm / en millimètre / alle Maße in mm / in millimetri / en milimetros
1), 2), 3) see last page / voir page 3 / siehe letzte Seite / vedi pagina 3 / ver Pág. 3

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ø	w. Full Collar[2]			L	B	D	Part No/ref	Part No/ref Full Collar		Part No/ref Half Collar[2]		Part No/ref Flanged Collar[3]		
nom.	min.	max.		nom.	max.	max.	Pin[1]	S max.	T max.	S max.	T max.	S max.	T max.	U[3] nom.
9.6 (3/8")	3.18	9.53	9.8	3.18	20.0	6.5	02801-01204	02837-01200		02838-01200		02839-01200		
	6.35	12.70		6.35			02801-01206							
	9.53	15.88		9.53			02801-01208							
	12.70	19.05		12.70			02801-01210							
	15.88	22.23		15.88			02801-01212							
	19.05	25.40		19.05			02801-01214							
	22.23	28.58		22.23			02801-01216							
	25.40	31.75		25.40			02801-01218							
	28.58	34.93		28.58			02801-01220	18.6	15.5	15.5	15.5	20.0	20.0	1.42
	31.75	38.10		31.75			02801-01222							
	34.93	41.28		34.93			02801-01224							
	38.10	44.45		38.10			02801-01226							
	41.28	47.63		41.28			02801-01228							
	44.45	50.80		44.45			02801-01230							
	47.63	53.98		47.63			02801-01232							

all dimensions in mm / en millimètre / alle Maße in mm / in millimetri / en milimetros

1) Different grip range pins with different numbers of grooves are available

Tiges avec autres plages de serrage et different nombre de cannelures sont disponible.

Bolzen mit anderem Klemmbereich und anderer Anzahl von Rillen sind verfügbar

Sono disponibili bulloni con spessori serrabili differenti con diverso numero di scanalature

Disponibles pernos con diferente número de anillos segun el espesor a remachar

2) Half collars increase the grip range to that of the next longest pin. Maximum grip increases by 1.57 mm (0.062") for 4.8 mm and 6.4 mm fasteners and 3.18 mm (0.125") for 8.0 mm and 9.6 mm fasteners.

Avec une bague courte, la plage de serrage maximale est équivalente à celle de l'Avdelok de longeur immédiamente supérieure. La plage de serrage augmente de 1.57 mm pour tiges de 4.8 mm et 6.4 mm, et de 3.18 mm pour tiges de 8.0 mm et 9.6 mm.

Die Verwendung von flachen Schließringen erhöht den Klemmbereich auf den des nächstlängeren Bolzens. Der maximale Klemmbereich erhöht sich um 1,6 mm für ø 4,8 mm und ø 6,4 mm Bolzen und 3,2 mm für ø 8,0 mm und ø 9,6 mm Bolzen.

Utilizzando i collari ribassati lo spessore serrabile aumenta, ed è uguale a quello massimo del bullone di misura superiore. Il massimo spessore serrabile aumenta di 1.57 mm per i bulloni da 4.8 mm e 6.4 mm e di 3.18 mm per i bulloni da 8.0 mm e 9.6 mm.

El empleo de medio collar incrementa el máx. espesor a remachar al de la siguiente toma. El máximo espesor a remachar por uso de medio collar es de 1,57 mm para diámetros de 4,8 y 6,4 mm y de 3,18 mm para diámetros de 8 y 9,6 mm.

3) 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.

Avec une bague à embase, la plage de serrage est diminuée de la valeur de la cote U.

Schließringe mit Bund werden in Anwendungen benötigt, wo das Bohrloch auf der Schließringseite übergroß oder länglich ist. Um den richtigen Bolzen zu bestimmen, addieren Sie das Maß U zu der zu verbindenden Materialstärke hinzu.

Utilizzando i collari flangiati la dimensione „U" deve essere aggiunta allo spessore da serrare per determinare il tipo di bullone adatto.

Utilizar collar con ala cuando en la aplicación el taladro está sobredimensionado o es ranurado. Para calcular la referencia de perno necesaria añadir la cota U al espesor de la aplicación.

ø		
nom.	kN[4]	kN[4]
4.8 (3/16")	4.67	4.72
6.4 (1/4")	8.34	7.92
8.0 (5/16")	13.02	12.68
9.6 (3/8")	18.69	18.68

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

Cette valeurs représentent minimum résistances au cisaillement et à la traction avec l'usage d'une bague standard. Avec l'usage des bagues courtes la résistance à la traction se diminue à env. 45 %.

Diese Werte repräsentieren Minimum Scher- und Zugfestigkeiten der Verbindung unter Verwendung von Standard-Schließringen. Bei Verwendung von flachen Schließringen reduziert sich die Zugfestigkeit auf ca. 45 %.

I dati si riferiscono a bulloni installati con collari Standard, utilizzando collari ribassati i valori di trazione diminuiscono del 45 % circa, i valori di taglio rimangono invariati. I dati indicati in tabella sono minimi.

La figura representa los valores mínimos de resistencia a la cortadura y tracción cuando se utiliza collar estándar. Cuando se utiliza medio collar se reducen aproximadamente en un 45 %.

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