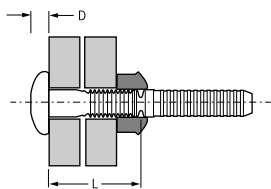
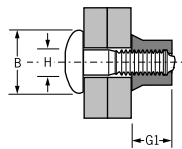


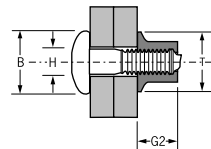
Material	Finish
Pin: Medium carbon steel to SAE 15B36 Collar: Low carbon steel to BS 3111 Type O SAE 1008 DIN 1654 Qst 34-3	Pin: Black self-colour Collar: Zinc plated to BS EN 12329 An extensive range of other finishes are available to special order, please contact us for further details.



PIN AND COLLAR BEFORE PLACING



PIN AND COLLARS AFTER PLACING



FLANGED COLLAR

- L = Length (Underhead to breaker groove)
- B = Head Diameter
- D = Round Head Thickness
- G¹ = Full Collar Height
- G² = Flanged Collar Height
- H = Hole Size
- T = Diameter of Flanged Collar (Placed)

Part Numbering

02861 - Round Head

Standard

02871 - 90° Countersunk Head

02862 - Round Head, Zinc Plated 10 micron

02872 - 90° Countersunk Head, Zinc Plated 10 micron

02863 - Round Head, Zinc Plated 20 micron

02873 - 90° Countersunk Head, Zinc Plated 20 micron

Special make to order

Example

02861-01604



Dimensions Parts which appear in the shaded boxes are normally available on a 2-4 week lead time. Please check available volumes.

Grip ID	Grip Range (mm)		Grip Range (")		L (mm) nom.	L (") nom.	B max.	D max.	G1 (Full Collar) max.	G2 (Flanged Collar) max.	H max.	T max.	Fastener Size nom.	Part Numbers		
	min.	max.	min.	max.										Pin	Full Collar	Flanged Collar*
6	6.4	12.7	1/4	1/2	32	1.3								02861-01604		
12	12.7	19.1	1/2	3/4	38	1.5								-01608		
18	19.1	25.4	3/4	1	44	1.7								-01612		
24	25.4	31.8	1	1 1/4	50	2.0								-01616		
31	31.8	38.1	1 1/4	1 1/2	57	2.2								-01620		
37	38.1	44.5	1 1/2	1 3/4	63	2.5								-01624		
44	44.5	50.8	1 3/4	2	70	2.8								-01628		
50	50.8	57.2	2	2 1/4	76	3.0	23mm	9.2mm	16.4mm	18.5mm	14.2mm	26mm	12.7 (1/2")	-01632	02662-01600	02615-01600
57	57.2	63.5	2 1/4	2 1/2	83	3.3	(.91")	(.36")	(.65")	(.73")	(.56")	(1.02")		-01636		
63	63.5	69.9	2 1/2	2 3/4	89	3.5								-01640		
70	69.9	76.2	2 3/4	3	96	3.8								-01644		
77	76.2	82.6	3	3 1/4	103	4.1								-01648		
83	82.6	88.9	3 1/4	3 1/2	109	4.3								-01652		
89	88.9	95.3	3 1/2	3 3/4	115	4.5								-01656		
95	95.3	101.6	3 3/4	4	121	4.8								-01660		

* Use of a flanged collar reduces the stated grip by 3mm.

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Dimensions Parts which appear in the shaded boxes are normally available on a 2-4 week lead time. Please check available volumes.

Grip ID	Grip Range (mm)		Grip Range (")		L (mm) nom.	L (") nom.	B max.	D max.	G1 (Full Collar) max.	G2 (Flanged Collar) max.	H max.	T max.	Fastener Size nom.	Part Numbers				
	min.	max.	min.	max.										Pin	Full Collar	Flanged Collar*		
6	6.4	12.7	1/4	1/2	36	1.4										02861-02004		
12	12.7	19.1	1/2	3/4	42	1.7										02861-02008		
18	19.1	25.4	3/4	1	48	1.9										02861-02012		
24	25.4	31.8	1	1 1/4	54	2.1										02861-02016		
31	31.8	38.1	1 1/4	1 1/2	61	2.4										02861-02020		
37	38.1	44.5	1 1/2	1 3/4	67	2.6										02861-02024		
44	44.5	50.8	1 3/4	2	74	2.9										02861-02028		
50	50.8	57.2	2	2 1/4	80	3.1	30mm	11.3mm	22.2mm	24mm	17.5mm	32mm	15.9 (5/8")			02861-02032	02662-02000	02615-02000
57	57.2	63.5	2 1/4	2 1/2	87	3.4	(1.18")	(.44")	(.87")	(.94")	(.69")	(1.26")				02861-02036		
63	63.5	69.9	2 1/2	2 3/4	93	3.7										02861-02040		
70	69.9	76.2	2 3/4	3	100	3.9										02861-02044		
77	76.2	82.6	3	3 1/4	107	4.2										02861-02048		
83	82.6	88.9	3 1/4	3 1/2	113	4.4										02861-02052		
89	88.9	95.3	3 1/2	3 3/4	119	4.7										02861-02056		
95	95.3	101.6	3 3/4	4	125	4.9										02861-02060		* Use of a flanged collar reduces the stated grip by 4mm.
6	6.4	12.7	1/4	1/2	39	1.5										02861-02404		
12	12.7	19.1	1/2	3/4	45	1.8										-02408		
18	19.1	25.4	3/4	1	51	2.0										-02412		
24	25.4	31.8	1	1 1/4	57	2.2										-02416		
31	31.8	38.1	1 1/4	1 1/2	64	2.5										-02420		
37	38.1	44.5	1 1/2	1 3/4	70	2.8										-02424		
44	44.5	50.8	1 3/4	2	77	3.0										-02428		
50	50.8	57.2	2	2 1/4	83	3.3	35mm	13.5mm	24.4mm	28.7mm	20.5mm	38mm	19.1 (3/4")			-02432	02662-02400	02615-02400
57	57.2	63.5	2 1/4	2 1/2	90	3.5	(1.38")	(.53")	(.96")	(1.13")	(.81")	(1.5")				-02436		
63	63.5	69.9	2 1/2	2 3/4	96	3.8										-02440		
70	69.9	76.2	2 3/4	3	103	4.1										-02444		
77	76.2	82.6	3	3 1/4	110	4.3										-02448		
83	82.6	88.9	3 1/4	3 1/2	116	4.6										-02452		
89	88.9	95.3	3 1/2	3 3/4	122	4.8										-02456		
95	95.3	101.6	3 3/4	4	128	5.0										-02460		* Use of a flanged collar reduces the stated grip by 5mm.

Dimensions Parts which appear in the shaded boxes are normally available on a 2-4 week lead time. Please check available volumes.

Grip ID	Grip Range (mm)		Grip Range (")		L (mm) nom.	L (") nom.	B max.	D max.	G1 (Full Collar) max.	G2 (Flanged Collar) max.	H max.	T max.	Fastener Size nom.	Part Numbers		
	min.	max.	min.	max.										Pin	Full Collar	Flanged Collar*
6	6.4	12.7	1/4	1/2	43	1.7								02861-02804		
12	12.7	19.1	1/2	3/4	49	1.9								02861-02808		
18	19.1	25.4	3/4	1	55	2.2								02861-02812		
24	25.4	31.8	1	1 1/4	61	2.4								02861-02816		
31	31.8	38.1	1 1/4	1 1/2	68	2.7								02861-02820		
37	38.1	44.5	1 1/2	1 3/4	74	2.9								02861-02824		
44	44.5	50.8	1 3/4	2	81	3.2								02861-02828		
50	50.8	57.2	2	2 1/4	87	3.4	41mm	15.3mm	28.3mm	33.5mm	23.7mm	40.5mm	22.2 (7/8")	02861-02832	02662-02800	02615-02800
57	57.2	63.5	2 1/4	2 1/2	94	3.7	(1.61")	(.6")	(1.11")	(1.32")	(.93")	(1.59")		02861-02836		
63	63.5	69.9	2 1/2	2 3/4	100	3.9								02861-02840		
70	69.9	76.2	2 3/4	3	107	4.2								02861-02844		
77	76.2	82.6	3	3 1/4	114	4.5								02861-02848		
83	82.6	88.9	3 1/4	3 1/2	120	4.7								02861-02852		
89	88.9	95.3	3 1/2	3 3/4	126	5.0								02861-02856		
95	95.3	101.6	3 3/4	4	133	5.2								02861-02860		* Use of a flanged collar reduces the stated grip by 5.5mm.
6	6.4	12.7	1/4	1/2	48	1.9								02861-03204		
12	12.7	19.1	1/2	3/4	54	2.1								-03208		
18	19.1	25.4	3/4	1	60	2.4								-03212		
24	25.4	31.8	1	1 1/4	66	2.6								-03216		
31	31.8	38.1	1 1/4	1 1/2	73	2.9								-03220		
37	38.1	44.5	1 1/2	1 3/4	79	3.1								-03224		
44	44.5	50.8	1 3/4	2	86	3.4								-03228		
50	50.8	57.2	2	2 1/4	92	3.6	47mm	17.7mm	32.4mm	38.0mm	27.0mm	48mm	25.4 (1")	-03232	02662-03200	02615-03200
57	57.2	63.5	2 1/4	2 1/2	99	3.9	(1.85")	(.7")	(1.28")	(1.5")	(1.06")	(1.89")		-03236		
63	63.5	69.9	2 1/2	2 3/4	105	4.1								-03240		
70	69.9	76.2	2 3/4	3	112	4.4								-03244		
77	76.2	82.6	3	3 1/4	119	4.7								-03248		
83	82.6	88.9	3 1/4	3 1/2	125	4.9								-03252		
89	88.9	95.3	3 1/2	3 3/4	131	5.2								-03256		
95	95.3	101.6	3 3/4	4	137	5.4								-03260		* Use of a flanged collar reduces the stated grip by 6mm.

Performance Data

The strength of the joints will vary with the thickness and hardness of the metal sheet of the application.

The performance figures shown are minimum values in pounds/kilo Newtons of installed fastener. Round head in carbon steel is equivalent to ASTM A325 high strength bolts and meets performance requirements of BS 7805. These values equate to a class 8.8 product.

Fastener Size	Shear		Tension		Clamp Load	
	nom.	LBS	kN	LBS	kN	LBS
12.7 (1/2")	14400	64.0	17050	75.8	12050	53.5
15.9 (5/8")	22500	100.0	27100	120.5	19200	85.3
19.1 (3/4")	32400	144.1	40100	178.4	28400	126.2
22.2 (7/8")	43400	193.0	55450	246.6	39250	174.4
25.4 (1")	56500	251.3	72700	323.4	51500	228.8

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