USA Brake and Clutch Lining Rivets

Data sheet and standard sizes

Manufactured to globally accepted standards including BS3575, DIN7338, ANSI B18.7 and JISD4312 or to customers specified drawings.

ANSI B18.7 (1972)

Dimensions for 150° Flat Countersunk Head Semi-Tubular Rivets

Recommended for attachment of friction material

Rivet Reference	Normal Size	Shank Diameter		Head Diameter		Head Thickness		Tube Diameter at end of rivet		Tube Depth to start of apex
		B		C		D		J		K
		max.	min.	max.	min.	max.	min.	max.	min.	*reference
4-	0.146	0.146	0.141	0.303	0.289	0.045	0.035	0.105	0.099	0.141
7-	0.188	0.188	0.182	0.367	0.351	0.051	0.041	0.139	0.133	0.188
10-	0.252	0.252	0.244	0.478	0.458	0.067	0.053	0.183	0.173	0.250

All dimensions are in inches

Dimensions for 150° Large Flat Countersunk Head Semi-Tubular Rivets

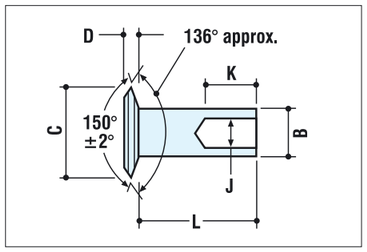
Recommended for attachment of friction material

Rivet Reference	Normal Size	Shank Diameter		Head Diameter		Head Thickness		Tube Diameter at end of rivet		Tube Depth to start of apex
		B		C		D		J		K
		max.	min.	max.	min.	max.	min.	max.	min.	*reference
5-	0.146	0.146	0.141	0.367	0.351	0.051	0.041	0.105	0.099	0.141
8-	0.188	0.188	0.182	0.478	0.458	0.067	0.053	0.139	0.133	0.188

All dimensions are in inches

*These are reference dimensions only. Hole depths will vary depending upon the purpose for which a particular rivet is designed.

Semi-Tubular Rivets



Rivet Designation Example:
The shank length **(L)** is specified by whole numbers of $^{1}/_{16}$ inch increments.
Part number **8-10** is therefore rivet reference 8- with a shank length **(L)** of $^{5}/_{8}$ inch (10 x $^{1}/_{16}$ inch).

CLEVTEC LIMITED

Unit 3 The Courtyard, Reddicap Trading Estate, Sutton Coldfield
West Midlands B75 7BU, United Kingdom
Tel: + 44 (0) 121 378 5960 Fax: + 44 (0) 121 378 4291
Email: sales@clevtec.com Website: www.clevtec.com

Friction Lining Rivets for The Automotive Industry

Manufactured to National Standards

BS3575 – 1963
DIN7338 – 1993
ANSI B18.7 – 1972

Friction Lining Rivets

Data sheet and standard sizes

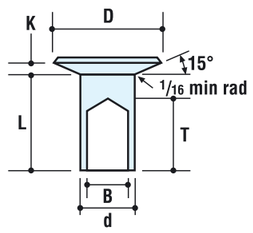
Manufactured to globally accepted standards including BS3575, DIN7338, ANSI B18.7 and JISD4312 or to customers specified drawings.

BS3575 (1963)

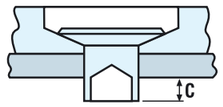
Rivet Reference	Shank Diameter			Preferred minimum shank length	Head Diameter			Head Thickness		Tube Diameter	Depth of tube in shank	Recommended minimum clinch allowance
	d			L	D			K		B	T	C
	nom.	max.	min.		nom.	max.	min.	max.	min.	nom.	nom.	
E	1/8	0.125	0.120	3/16	7/32	0.218	0.208	0.030	0.025	0.082	5/32§	3/32
F	9/64	0.144	0.140	3/16	19/64	0.300	0.290	0.035	0.030	0.099	5/32§	3/32
G	5/32	0.156	0.151	3/16	5/16	0.317	0.307	0.040	0.035	0.106	3/16†	1/8
H	11/64	0.176	0.171	1/4	5/16	0.317	0.307	0.040	0.035	0.128	3/16†	1/8
J	3/16	0.188	0.183	1/4	3/8	0.364	0.354	0.045	0.040	0.136	7/32‡	1/8
K	7/32	0.215	0.210	5/16	27/64	0.430	0.420	0.060	0.050	0.154	7/32‡	1/8
L	1/4	0.250	0.245	3/8	15/32	0.478	0.468	0.060	0.050	0.180	7/32	5/32
M	5/16	0.312	0.307	7/16	9/16	0.562	0.547	0.070	0.060	0.234	1/4	3/16
N	3/8	0.375	0.370	1/2	5/8	0.625	0.610	0.080	0.070	0.281	9/32	7/32

All dimensions are in inches

Semi Tubular Rivets



Recommended clinch allowance



§ Rivets reference **E** and **F** with a shank length **(L)** less than 5/16 inch have a tube depth **(T)** of 1/8 inch.
† Rivets reference **G** and **H** with a shank length **(L)** less than 5/16 inch have a tube depth **(T)** of 5/32 inch.
‡ Rivets reference **J** and **K** with a shank length **(L)** less than 3/8 inch have a tube depth **(T)** of 5/32 inch.

All rivets are embossed showing the rivet reference letter and the shank length **(L)** where the shank length is specified by whole numbers of 1/16 inch increments. 1/32 inch increments are specified as half whole numbers ie: 0.5.
For example: **G8** is rivet reference **G** which has a 5/32 inch shank diameter and has a 1/2 inch shank length.
G8.5 is rivet reference **G** which has a 5/32 inch shank diameter and has a 17/32 inch shank length.

Brake and Clutch Lining Rivets

Data sheet and standard sizes

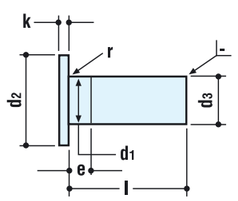
Manufactured to globally accepted standards including BS3575, DIN7338, ANSI B18.7 and JISD4312 or to customers specified drawings.

DIN7338 (1993)

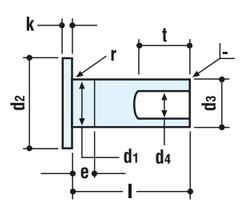
Nominal Shank Diameter	Actual Shank Diameter		Head Diameter		Head Thickness	Tube Diameter Type B only	Tube Depth Type B only		Corner Radius		Wall Thickness Type C only
	d1 h13	**d3** (min)	**d2**	Perm dev.	**k** Tolerance +0.00 / −0.20	**d4** H13	**t*** Tolerance +0.50 / −0.00		**r** (max)	**e**	**s** Tolerance +0.10 / −0.10
							(1)	(2)			
3	3.00	2.85	5.50	h14	0.80	1.70	3.50	4.00	0.20	1.50	0.50
4	4.00	3.80	7.50	h15	1.00	2.70	4.00	5.00	0.30	2.00	0.50
5	5.00	4.80	9.50	h15	1.00	3.50	4.00	6.00	0.30	2.50	0.60
6	6.00	5.80	11.50	h15	1.20	4.20	6.00	8.00	0.40	3.00	0.75
8	8.00	7.75	15.50	h15	1.20	6.00	8.00	10.00	0.40	4.00	1.20
10	10.00	9.75	18.00	h15	1.40	7.50	10.00	12.00	0.60	5.00	1.20

All dimensions are in millimetres
*The actual tube depth **t** (1) or **t** (2) is determined by the shank length and the material used.

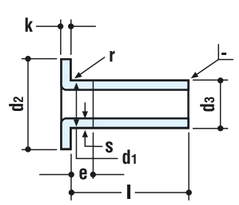
Type A – Solid Rivet



Type B – Semi-Tubular Rivet



Type C – Tubular Rivet



Rivet Designation Example:
Rivet DIN 7338 – C6 x 20 – St
Where **C** is the rivet type, **6** is the nominal diameter, **20** is the shank length **(l)** in mm and **St** is the rivet material (steel)