

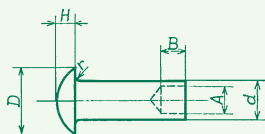
Thin Round Head Rivet

Semi Tubular Rivets 尾孔鍋釘

Thin Round Head Rivets 薄圓頭鍋釘

 JIS B1215
 unit : mm

Nominal diameter	1.2	1.6	2	2.5	3	4	5	6	8
d Basic size	1.2	1.6	2	2.5	3	4	5	6	8
Tolerance	+0.02 -0.05		+0.02 -0.06		+0.02 -0.08		+0.02 -0.10		+0.02 -0.12 -0.15
D Basic size	2.2	3	3.7	4.6	5.4	7.2	9	10.5	13.5
Tolerance	0 -0.3			0 -0.4		0 -0.5	0 -0.6		
H Basic size	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.1	2.8
Tolerance	±0.1				±0.15			±0.2	
A Basic size	0.8	1.1	1.3	1.7	2.1	2.8	3.5	4.2	5.6
Tolerance	±0.04		±0.05	±0.07		±0.1		±0.12	
B Basic size	1.1	1.4	1.8	2.3	2.7	3.6	4.5	5.4	7.2
Tolerance	±0.1		±0.15		±0.2		±0.25	±0.3	
r Max.	0.06	0.08	0.1	0.2		0.3		0.4	



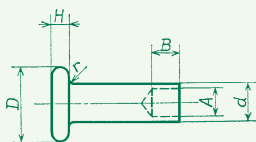
Truss Head Rivet

Semi Tubular Rivets 尾孔鍋釘

Truss Head Rivets 扁圓頭鍋釘

 JIS B1215
 unit : mm

		1.2	1.6	2	2.5	3	4	5	6	8	
d	Basic size	1.2	1.6	2	2.5	3	4	5	6	8	
		+0.02 -0.05		+0.02 -0.06		+0.02 -0.08		+0.02 -0.10		+0.02 -0.12	+0.02 -0.15
D	Basic size	2.7	3.6	4.5	5.6	6.6	8.8	11	13	17	
		0 -0.3				0 -0.4		0 -0.5	0 -0.6		
H	Basic size	0.5	0.7	1	1.3	1.4	1.8	2.4	2.8	3.8	
		±0.1				±0.15			±0.2		
A	Basic size	0.8	1.1	1.3	1.7	2.1	2.8	3.5	4.2	5.6	
		±0.04		±0.05	±0.07		±0.1		±0.12		
B	Basic size	1.1	1.4	1.8	2.3	2.7	3.6	4.5	5.4	7.2	
		±0.1		±0.15		±0.2		±0.25	±0.3		
r	Max.	0.06	0.08	0.1	0.2	0.3		0.4	0.5	0.6	



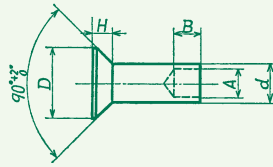
Flat Head Rivet

Semi Tubular Rivets 尾孔鍋釘

Flat Head Rivets 平頭鍋釘

 JIS B1215
 unit : mm

Nominal diameter		1.2	1.6	2	2.5	3	4	5	6	8
d	Basic size	1.2	1.6	2	2.5	3	4	5	6	8
	Tolerance	+0.02 -0.05		+0.02 -0.06	+0.02 -0.08		+0.02 -0.10		+0.02 -0.12	+0.02 -0.15
D	Basic size	2.2	3	3.7	4.6	5.4	7.2	9	10.5	13.5
	Tolerance	0 -0.3			0 -0.4		0 -0.5	0 -0.6		
H	Basic size	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.1	2.8
	Tolerance	±0.1			±0.15			±0.2		
A	Basic size	0.8	1.1	1.3	1.7	2.1	2.8	3.5	4.2	5.6
	Tolerance	±0.04		±0.05	±0.07		±0.1		±0.12	
B	Basic size	1.1	1.4	1.8	2.3	2.7	3.6	4.5	5.4	7.2
	Tolerance	±0.1		±0.15		±0.2		±0.25	±0.3	
r	Max.	0.06	0.08	0.1	0.2		0.3		0.4	

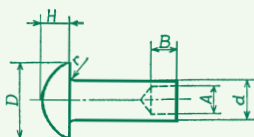


Countersunk Head Rivet

Semi Tubular Rivets 尾孔鍋釘
Countersunk Head Rivets 沉頭鍋釘

B121
unit : mm

Nominal diameter	2	2.5	3	4	5	6	8
d Basic size	2	2.5	3	4	5	6	8
Tolerance	+0.02 -0.06	+0.02 -0.08		+0.02 -0.10		+0.02 -0.12	+0.02 -0.15
D Basic size	4	5	6	8	10	12	16
Tolerance	0 -0.4		0 -0.5		0 -0.6	0 -0.7	0 -0.8
H Approx.	1	1.3	1.5	2	2.5	3	4
A Basic size	1.3	1.7	2.1	2.8	3.5	4.2	5.6
Tolerance	±0.05	±0.07		±0.01		±0.12	
B Basic size	1.8	2.3	2.7	3.6	4.5	5.4	7.2
Tolerance	±0.15		±0.2		±0.25	±0.3	



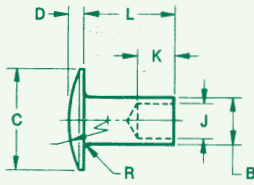
Round Head Rivet

Semi Tubular Rivets 尾孔鍋釘

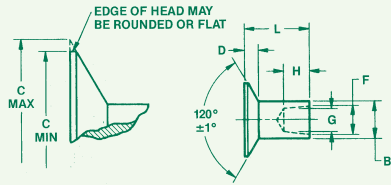
Round Head Rivets 圓頭鍋釘

 JIS B1215
 unit : mm

Nominal diameter		1.2	1.6	2	2.5	3	4	5	6	8
d	Basic size	1.2	1.6	2	2.5	3	4	5	6	8
	Tolerance	+0.02 -0.05		+0.02 -0.06		+0.02 -0.08		+0.02 -0.10		+0.02 -0.12
D	Basic size	2.2	3	3.7	4.6	5.4	7.2	9	10.5	13.5
	Tolerance	0 -0.3				0 -0.4		0 -0.5	0 -0.6	
H	Basic size	0.7	1	1.2	1.5	1.8	2.4	3	3.6	4.8
	Tolerance	±0.1				±0.15			±0.2	
A	Basic size	0.8	1.1	1.3	1.7	2.1	2.8	3.5	4.2	5.6
	Tolerance	±0.04		±0.05	±0.07		±0.1		±0.12	
B	Basic size	1.1	1.4	1.8	2.3	2.7	3.6	4.5	5.4	7.2
	Tolerance	0.1		0.15		0.2		0.25	0.3	
r	Max.	0.06	0.08	0.1	0.2		0.3		0.4	



Truss Head



Flat Head

Semi Tubular Rivets 尾孔鍋釘- Truss Head 扁圓頭

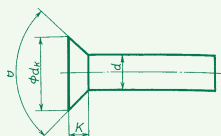
ANSI B18.7 1972
unit : inch

Nominal Size	B		C		D		J		K
	Shank Diameter		Head Diameter		Head Thickness		Type S Straight Hole Rivets		
	Max	Min	Max	Min	Max	Min	Hole Dia at End of rivet	Hole Depth to Start of Apex	Nominal
0.061	0.061	0.058	0.130	0.120	0.019	0.015	0.044	0.039	0.046
0.089	0.089	0.085	0.192	0.182	0.026	0.020	0.068	0.062	0.064
0.123	0.123	0.118	0.286	0.276	0.038	0.030	0.090	0.084	0.094
0.146	0.146	0.141	0.318	0.306	0.045	0.035	0.107	0.100	0.126
0.188	0.188	0.182	0.381	0.369	0.065	0.055	0.141	0.134	0.155

Semi Tubular Rivets 尾孔鍋釘- Truss Head 沉頭

unit : inch

Nominal Size	B		C		D	J		K
	Shank Diameter		Head Diameter		Head Thickness	Type S Straight Hole Rivets		Hole Depth to Start of Apex
	Max	Min	Max. Edge Sharp	Min. Edge Round or Flat		Hole Dia at End of rivet	Nominal	
0.089	0.089	0.085	0.223	0.203	0.039	0.068	0.062	0.064
0.123	0.123	0.118	0.271	0.245	0.043	0.090	0.084	0.094
0.146	0.146	0.141	0.337	0.307	0.056	0.107	0.100	0.126
0.188	0.188	0.182	0.404	0.369	0.063	0.141	0.134	0.155
0.217	0.217	0.210	0.472	0.430	0.075	0.163	0.155	0.189
0.252	0.252	0.244	0.540	0.493	0.084	0.184	0.176	0.219



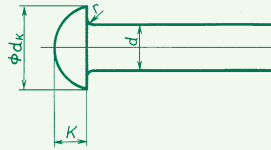
Flat Head Rivet

Cold Headed Rivets 冷間鍛造鋼釘 Flat Head Rivets 沉頭鍋釘

JIS B 1213

Nominal Diameter	Column 1	1	1.2	1.4	1.6	1.7	2	2.3	2.5	2.6	3
	Column 2										
	Column 3										
Shank Diameter(d)	Basic dimension	1	1.2	1.4	1.6	1.7	2	2.3	2.5	2.6	3
	Tolerances	+0.04 -0.02	+0.05 -0.02	+0.06 -0.02	+0.07 -0.02		+0.8 -0.02	+0.09 -0.02	+0.1 -0.03		+0.12 -0.03
Head Diameter(d _h)	Basic dimension	2	2.4	2.8	3.2	3.4	4	4.6	5.0	5.2	6
	Tolerances	±0.3 0		±0.4 0				±0.5 0			
Head Height(K)	Approx.	0.5	0.6	0.7	0.8	0.9	1	1.2	1.3	1.3	1.5

Nominal Diameter	Column 1	4	4.5	5	6	8	10	12	13	14	
	Column 2			3.5							
	Column 3										
Shank Diameter(d)	Basic dimension	3.5	4	4.5	5	6	8	10	12	13	14
	Tolerances	+0.14 -0.04	+0.16 -0.04	+0.18 -0.05	+0.2 -0.05	+0.24 -0.06	+0.32 -0.08	+0.4 -0.08	+0.48 -0.08	+0.5 -0.08	+0.56 -0.1
Head Diameter(d _h)	Basic dimension	7	8	9	10	12	16	16	19	21	22
	Tolerances	±0.5 0	±0.6 0		±0.7 0		±0.8 0				
Head Height(K)	Approx.	1.8	2	2.3	2.5	3	4	4	5	5	6

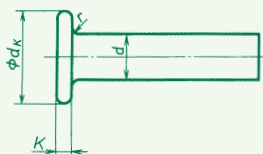


Small Size Round Head Rivet

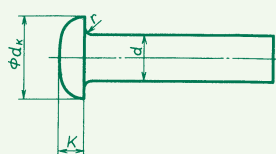
Cold Headed Rivets 冷間鍛造鍋釘 Small Size Round Head Rivets 小圓頭鍋釘

Nominal Diameter	Column 1	1	1.2	1.6	2	2.5				
	Column 2			1.4	1.7	2.3				
	Column 3					2.6				
Shank Diameter (d)	Basic dimension	1	1.2	1.4	1.6	1.7	2	2.3	2.5	2.6
	Tolerances	+0.04 -0.02	+0.05 -0.02	+0.06 -0.02	+0.07 -0.02		+0.08 -0.02	+0.09 -0.02	+0.1 -0.03	
Head Diameter (dk)	Basic dimension	1.8	2.2	2.5	3	3.5	4	4.5		
	Tolerances	±0.1					±0.15			
Head Height (K)	Basic dimension	0.6	0.7	0.8	1	1.2	1.4	1.6		
	Tolerances	±0.1								

Nominal Diameter	Column 1	3	4	5	
	Column 2		3.5		
	Column 3				
Shank Diameter (d)	Basic dimension	3	3.5	4	5
	Tolerances	+0.12 -0.03	+0.14 -0.04	+0.16 -0.04	+0.2 -0.05
Head Diameter (dk)	Basic dimension	5.2	6.2	7	8.8
	Tolerances	±0.2			±0.3
Head Height (K)	Basic dimension	1.8	2.1	2.4	3
	Tolerances	±0.15			



Thin Flat Head Rivet



Pan Head Rivet

Cold Headed Rivets 冷間鍛造鍋釘 Thin Flat Head Rivets 薄平頭鍋釘

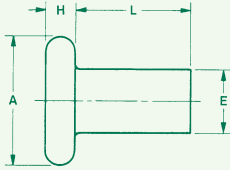
JIS B 1213

Nominal Diameter	Column 1	2	2.5	3	4	5	6				
	Column 2				3.5	4.5					
	Column 3	2.3	2.6								
Shank	Basic dimension	2	2.3	2.5	2.6	3	3.5	4	4.5	5	6
Diameter(d)	Tolerances	+0.08	+0.09	+0.1		+0.12	+0.14	+0.16	+0.18	+0.2	+0.24
		-0.02	-0.02	-0.03		-0.03	-0.04	-0.04	-0.05	-0.05	-0.06
Head Diameter(d _g)	Basic dimension	4	4.6	5.0	5.2	6	7	8	9	10	12
	Tolerances	0 -0.3				0 -0.4			0 -0.5		
Head Height(K)	Basic dimension	0.7	0.8	0.9		1	1.1	1.3	1.5	1.6	2
	Tolerances	+ 0.2 0				+ 0.3 0			+ 0.4 0		

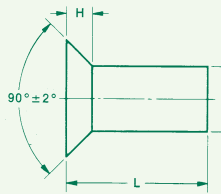
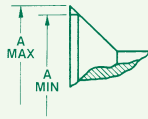
Pan Head Rivets 盆頭鍋釘

JIS B 1213

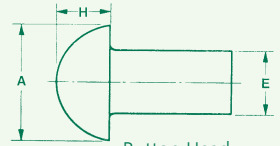
Nominal Diameter	Column 1	3	4	5	6	
	Column 2		3.5			
Shank	Basic dimension	3	3.5	4	5	6
Diameter(d)	Tolerances	+0.12	+0.14	+0.16	+0.2	+0.24
		-0.03	-0.04	-0.04	-0.05	-0.06
Head Diameter(d _g)	Basic dimension	6	7	8	9.5	10.8
	Tolerances	+ 0.3 - 0.2				+ 0.4 - 0.3
Head Height(K)	Basic dimension	1.7	1.9	2.2	2.8	3.3
	Tolerances	+ 0.2 - 0.1				+ 0.3 - 0.2



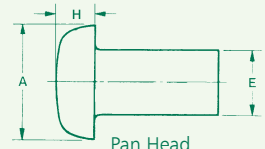
Flat Head



Flat Countersunk Head



Button Head



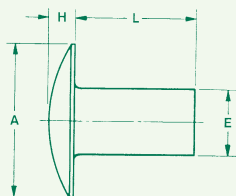
Pan Head

Cold Headed Rivet 鋼釘

ANSI B18.1.1 1972
unit : inch

Nominal Size or Basic Shank Diameter	Shank diameter E		Flat Head				Flat Countersunk Head			
			Head Diameter A		Head Height H		Head Diameter A		Head Height H	
			Max	Min	Max	Min	Max	Min	Ref	
1/16	0.062	0.064	0.059	0.140	0.120	0.027	0.017	0.118	0.110	0.027
3/32	0.094	0.096	0.090	0.200	0.180	0.038	0.026	0.176	0.163	0.040
1/8	0.125	0.127	0.121	0.260	0.240	0.048	0.036	0.235	0.217	0.053
5/32	0.156	0.158	0.152	0.323	0.301	0.059	0.045	0.293	0.272	0.066
3/16	0.188	0.191	0.182	0.387	0.361	0.069	0.055	0.351	0.326	0.079
7/32	0.219	0.222	0.213	0.453	0.427	0.080	0.065	0.413	0.384	0.094
1/4	0.250	0.253	0.244	0.515	0.485	0.091	0.075	0.469	0.437	0.106
9/32	0.281	0.285	0.273	0.579	0.545	0.103	0.085	0.528	0.491	0.119
5/16	0.312	0.316	0.304	0.641	0.607	0.113	0.095	0.588	0.547	0.133
11/32	0.344	0.348	0.336	0.705	0.667	0.124	0.104	0.646	0.602	0.146
3/8	0.375	0.380	0.365	0.769	0.731	0.135	0.115	0.704	0.656	0.159
13/32	0.406	0.411	0.396	0.834	0.790	0.146	0.124	0.763	0.710	0.172
7/16	0.438	0.443	0.428	0.896	0.852	0.157	0.135	0.823	0.765	0.186

Nominal Size or Basic Shank Diameter	Shank diameter E		Button Head				Pan Head				
			Head Diameter A		Head Height H		Head Diameter A		Head Height H		
			Max	Min	Max	Min	Max	Min	Max	Min	
1/16	0.062	0.064	0.059	0.122	0.102	0.052	0.042	0.118	0.098	0.040	0.030
3/32	0.094	0.096	0.090	0.182	0.162	0.077	0.065	0.173	0.153	0.060	0.048
1/8	0.125	0.127	0.121	0.235	0.215	0.100	0.088	0.225	0.205	0.078	0.066
5/32	0.156	0.158	0.152	0.290	0.268	0.124	0.110	0.279	0.257	0.096	0.082
3/16	0.188	0.191	0.182	0.348	0.322	0.147	0.133	0.334	0.308	0.114	0.100
7/32	0.219	0.222	0.213	0.405	0.379	0.172	0.158	0.391	0.365	0.133	0.119
1/4	0.250	0.253	0.244	0.460	0.430	0.196	0.180	0.444	0.414	0.151	0.135
9/32	0.281	0.285	0.273	0.518	0.484	0.220	0.202	0.499	0.465	0.170	0.152
5/16	0.312	0.316	0.304	0.572	0.538	0.243	0.225	0.552	0.518	0.187	0.169
11/32	0.344	0.348	0.336	0.630	0.592	0.267	0.247	0.608	0.570	0.206	0.186
3/8	0.375	0.380	0.365	0.684	0.646	0.291	0.271	0.663	0.625	0.225	0.205
13/32	0.406	0.411	0.396	0.743	0.699	0.316	0.294	0.719	0.675	0.243	0.221
7/16	0.438	0.443	0.428	0.798	0.754	0.339	0.317	0.772	0.728	0.261	0.239

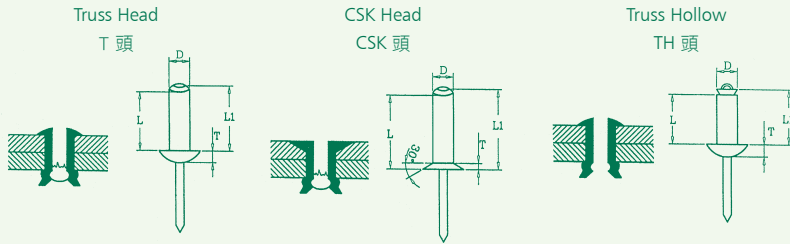


Truss Head

Cold Headed Rivet 鍋釘

 ANSI B18.1.1 1972
 unit : inch

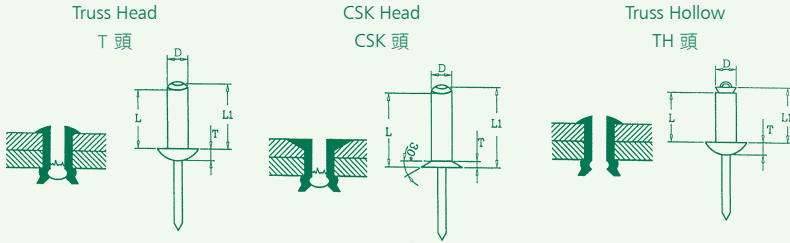
Nominal Size or Basic Shank Diameter	Shank diameter E		Truss Head			
			Head Diameter A		Head Height H	
			Max	Min	Max	Min
3/32 0.094	0.096	0.090	0.226	0.206	0.038	0.026
1/8 0.125	0.127	0.121	0.297	0.277	0.048	0.036
5/32 0.156	0.158	0.152	0.368	0.348	0.059	0.045
3/16 0.188	0.191	0.182	0.442	0.422	0.069	0.055
7/32 0.219	0.222	0.213	0.515	0.495	0.080	0.066
1/4 0.250	0.253	0.244	0.590	0.560	0.091	0.075
9/32 0.281	0.285	0.273	0.661	0.631	0.103	0.085
5/16 0.312	0.316	0.304	0.732	0.702	0.113	0.095
11/32 0.344	0.348	0.336	0.806	0.776	0.124	0.104
3/8 0.375	0.380	0.365	0.878	0.848	0.135	0.115
13/32 0.406	0.411	0.396	0.949	0.919	0.145	0.123
7/16 0.438	0.443	0.428	1.020	0.990	0.157	0.135



Pop Rivets (RV-POP) 拉釘

Rivet Diameter (D)		Grip Range		Typical Shell Length (L) mm	Typical Rivet Clearance (L1)mm
(in)	(mm)	(in)	(mm)		
3/32"	2.4mm	1/16 - 1/8	1.6-3.2	5.5	7.5
3/32"	2.4mm	1/8 - 3/16	3.2-4.8	7.0	9.0
1/8"	3.2mm	Up to 1/16	Up to 1.6	4.7	6.8
1/8"	3.2mm	1/16 - 1/8	1.6 - 3.2	6.3	8.4
1/8"	3.2mm	1/8 - 3/16	3.2 - 4.8	7.9	10.0
1/8"	3.2mm	3/16 - 1/4	4.8 - 6.4	9.5	11.6
1/8"	3.2mm	1/4 - 5/16	6.4 - 7.9	11.1	13.2
1/8"	3.2mm	5/16 - 3/8	7.9 - 9.5	12.7	14.8
1/8"	3.2mm	3/8 - 1/2	9.5 - 12.7	16.4	18.5
1/8"	3.2mm	1/2 - 5/8	12.7 - 15.9	20.1	22.2
1/8"	3.2mm	5/8 - 3/4	15.9 - 19.0	23.3	25.4
5/32"	4.0mm	Up to 1/16	Up to 1.6	5.5	7.8
5/32"	4.0mm	1/16 - 1/8	1.6 - 3.2	7.1	9.4
5/32"	4.0mm	1/8 - 3/16	3.2 - 4.8	8.7	11.0
5/32"	4.0mm	3/16 - 1/4	4.8 - 6.4	10.3	12.6
5/32"	4.0mm	1/4 - 5/16	6.4 - 7.9	11.9	14.2
5/32"	4.0mm	5/16 - 3/8	7.9 - 9.5	13.5	15.8
5/32"	4.0mm	3/8 - 1/2	9.5 - 12.7	17.1	19.4

To Be Continued



Pop Rivets (RV-POP) 拉釘

Rivet Diameter (D)		Grip Range		Typical Shell Length (L) mm	Typical Rivet Clearance (L1)mm
(in)	(mm)	(in)	(mm)		
3/16"	4.8mm	Up to 1/16	Up to 1.6	6.3	8.9
3/16"	4.8mm	1/16 - 1/8	1.6 - 3.2	7.9	10.5
3/16"	4.8mm	1/8 - 3/16	3.2 - 4.8	9.5	12.1
3/16"	4.8mm	3/16 - 1/4	4.8 - 6.4	11.0	13.6
3/16"	4.8mm	1/4 - 5/16	6.4 - 7.9	12.6	15.2
3/16"	4.8mm	5/16 - 3/8	7.9 - 9.5	14.2	16.8
3/16"	4.8mm	3/8 - 1/2	9.5 - 12.7	17.9	20.5
3/16"	4.8mm	1/2 - 9/16	12.7 - 14.3	19.5	22.1
3/16"	4.8mm	1/2 - 5/8	12.7 - 15.9	21.1	23.7
3/16"	4.8mm	5/8 - 3/4	15.9 - 19.0	24.2	26.8
3/16"	4.8mm	3/4 - 7/8	19.0 - 22.2	27.4	30.0
3/16"	4.8mm	8/7 - 1	22.2 - 25.4	30.6	33.2
3/16"	4.8mm	1 - 3/8	25.4 - 34.9	36.0	38.6
1/4"	6.4mm	3/16 - 1/4	4.8 - 6.4	12.6	16.6
1/4"	6.4mm	1/4 - 3/8	6.4 - 9.5	15.8	19.8
1/4"	6.4mm	3/8 - 1/2	9.5 - 12.7	19.0	23.0
1/4"	6.4mm	1/2 - 5/8	12.7 - 15.9	22.1	26.1
1/4"	6.4mm	5/8 - 3/4	15.9 - 19.0	25.3	29.3
1/4"	6.4mm	3/4 - 7/8	19.0 - 22.2	28.4	32.4