

PRODUCT GUIDE

SECOND EDITION | 2019



STAINLESS STEEL & ALUMINIUM STOCKISTS



Our Vision

*“Leaders in engineering and fabrication,
along with providing the highest level of quality products
and effective solutions across all industries.”*

At AzzCo we Value:

Safety

By following policy, holding correct permits and using the
correct and appropriate equipment for the job

Quality

By taking pride in our workmanship and
using reputable products

Professionalism

By taking time with our customer to understand needs,
resulting in a happy customer and a job well done

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SHEET

SPECIFICATIONS: ASTM A240/480
FINISH: 2B, 2B PE, N4 PE, BA PE, N8 PE



STAINLESS STEEL FLAT

SIZE		304					316			253MA	3CR12	321	LDX 2101
		2B	2B PE	N4 PE	BA PE	N8 PE	2B	2B PE	N4 PE	2B	1.4003 2B	2B	2B
0.45mm	915 x 1830												
	1219 x 2438	☆		☆									
0.55mm	915 x 1819	☆	☆	☆									
	915 x 2438	☆	☆	☆									
	1219 x 2438	★	☆	★			★						
0.7 mm	915 x 1830	☆	☆	☆									
	915 x 2438	☆	☆	☆									
	1219 x 2438	★		★	★		★		★				
0.9mm	915 x 1830	☆	☆	★									
	915 x 2438	★	☆	☆									
	1219 x 2438	★	★	★	★		★	★	★				
	1219 x 3048		★	★									
	1500 x 3000			★									
	1524 x 2438			★									
1mm	1219 x 2438					★				★			
1.2mm	915 x 1830	☆	☆	★									
	915 x 2438	★	☆	★									
	1219 x 2438	★	★	★	★	★	★	★	★			★	
	1219 x 3048	☆	★	★									
	1219 x 1829	★		★			☆		☆				
	1219 x 3658	☆		★			☆		☆				
	1500 x 3000	★	★	★				★	★				
	1524 x 2438	☆		★			☆		☆				
1.5mm	915 x 1830	★	☆	☆									
	915 x 2438	★	☆	★									
	915 x 3658	★											
	1219 x 1830	☆	☆	☆				☆					
	1219 x 2438	★	★	★	★	★	★	★	★			★	☆
	1219 x 3048	★	★	★				★	★				
	1219 x 3658	☆		★			☆		☆				
	1250 x 2400												
	1250 x 2500									★	★		
	1500 x 3000	★	★	★			★	★	★				☆
	1500 x 4000		★	★									

SHEET

SPECIFICATIONS: ASTM A240/480

FINISH: 2B, 2B PE, N4 PE, BA PE, N8 PE



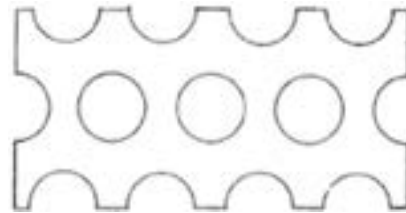
SIZE		304				316				253MA	3CR12	321	LDX 2101
		2B	2B PE	N4 PE	BA PE	2B	2B PE	N4 PE	N8 PE	2B	1.4003 2B	2B	2B
2mm	915 x 1819	★	☆	☆		☆	☆	☆					
	915 x 2438	☆	☆	☆		☆	☆	☆					
	1219 x 1830	★	★				☆						
	1219 x 2438	★	★	★	★	★	★	★	★			★	☆
	1219 x 3048	★	★	★			★						
	1250 x 2400												
2.5mm	1250 x 2500									★	★		
	1500 x 3000	☆	★	★		★	★	★			☆	☆	☆
	1500 x 4000		★	★									
	915 x 1830	☆	☆	☆									
	915 x 2438	☆	☆	☆									
	1219 x 2438	★	★	★	★	★	★	☆					
3mm	1219 x 3000	☆	★	☆									
	1500 x 3000	☆	★	★			★						
	1500 x 4000		★	★									
	915 x 1830	★	☆	☆		☆	☆						
	915 x 2438	★	☆	☆		☆	☆						
	1219 x 1830		☆				☆						
	1219 x 2438	★	★	★		★	★	★	★			★	☆
	1219 x 3048	☆	★	☆		☆	★	★					
	1250 x 2500									★	★		
3mm	1250 x 3000										★		
	1500 x 3000	★	★	★		☆	★	★			★	★	☆
	1500 x 4000	☆	★	★									

STAINLESS STEEL FLAT

PERFORATED SHEET

STANDARD SIZE: 2438 x 1219mm

****Note:** Different sheet sizes are available upon request **



THICKNESS	HOLE DIA (A)	CENTRES (B)	OPEN AREA %	304	316
0.7mm	1.6	2.54	36	★	☆
0.9mm	2.06	3.10	41	★	☆
0.9mm	3.25	4.52	46	★	☆
0.9mm	4.76	6.35	51	★	☆
1.5mm	3.25	5.59	30	★	☆
1.5mm	3.97	5.59	46	★	☆
1.5mm	4.76	6.35	51	★	☆
1.5mm	6.35	9.55	40	★	☆
1.5mm	9.53	14.3	40	★	☆
1.5mm	12.7	17.3	49	★	☆

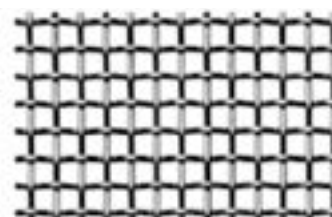
SAFETY TREAD SHEET



SIZE		RAISED HOLE DIA	DRAIN HOLE DIA	CENTRES	304	316
2.0mm	2438 x 1219mm	13.0mm	5.0mm	38mm	★	☆

WELDED and WOVEN MESH

GRADE: T304 (316 is optional on request)



WELDED MESH PANELS			WELDED MESH ROLLS		
SIZE	WIRE DIA	APERTURE	WIDTH	WIRE DIA	APERTURE
2400 x 1200mm	3.15mm	25.0mm	1220mm	0.8mm	6.25mm
2400 x 1200mm	3.15mm	40.0mm	1220mm	1.0mm	8.33mm
2400 x 1200mm	4.0mm	50.0mm	1220mm	1.2mm	12.5mm
			1220mm	1.6mm	12.5mm
			1220mm	1.6mm	25.0mm
			1220mm	2.0mm	25.0mm

WELDED MESH ROLLS		
WIDTH	WIRE DIA	APERTURE
1220mm	0.9mm	1.64mm
1220mm	1.6mm	11.2mm
1220mm	3.15mm	25.0mm

****Note:** Minimum cut to length for welded and woven mesh rolls is one metre. Full size range of woven mesh is available upon request **

**** Minimum length for Woven Mesh is 2 metres.**

PLATE

SPECIFICATIONS: ASTM A240/480

FINISH: 2BPE, No. 1 HRAP



SIZE		TP304/L		TP316L		TP321	3CR12	253MA	2205	LDX 2101
		2B PE	No.1	2B PE	No.1		1.4003			
2mm	2000 x 4000	★		★						
3mm	1500 x 3000	☆		☆		☆	☆		☆	
	1219 x 6000	☆		☆			☆			
	1500 x 6000	★		★		★	★			★
	2000 x 3000	★								
	2000 x 4000	★		★						
	2000 x 6000	★		★		★		★	★	
4mm	1219 x 2438	★		★						
	1500 x 3000	★		★						
	1500 x 4000	★						★		
	1500 x 6000	★	☆	★				★		★
	2000 x 4000	★								
	2000 x 6000	★	☆	★					☆	
5mm	1219 x 2438	★	★	★	★					
	1250 x 2500						★			
	1500 x 3000	★	★	★	★	★	★	★		
	1500 x 4000	★								
	1500 x 6000	★	★	★	★	★	★		★	★
	2000 x 4000	★	★							
	2000 x 6000	★	★	★	★	★	☆	★	★	
	2500 x 6000		☆		☆					
6mm	1219 x 2438	★	★	★	★					
	1250 x 2500						★			
	1250 x 6000						★			
	1500 x 3000	★	★	★	★	★	★			
	1500 x 4000	★								
	1500 x 6000	★	★	★	★	★	★			★
	2000 x 4000	★								
	2000 x 6000	★	★	★	★	★	★	★	★	★
	2500 x 6000		☆		☆					
	2500 x 7500						☆			
8mm	1219 x 2438		★		★					
	1500 x 3000	★	★		★					
	1500 x 6000	★	★		★	★	★			
	2000 x 4000									
	2000 x 6000	★	★		★	★	★	★	★	★
	2500 x 6000		☆		★					
	2500 x 7500		★		☆		☆			
10mm	1219 x 2438		★		★					
	1500 x 3000		★		★	★	★			
	1500 x 6000		★		★	★	★			
	2000 x 6000		★		★	★	★	★	★	
	2500 x 6000		☆		☆					
	2500 x 7500		☆		★		☆			

STAINLESS STEEL FLAT

PLATE

SPECIFICATIONS: ASTM A240/480

FINISH: CPP, No. 1 HRAP



STAINLESS STEEL FLAT

	SIZE	TP 304/L	TP 316L	TP 321	3CR12 1.4003	253MA	2205
12mm	1219 x 2438	★	★				
	3000 x 1500	★	★	★	★		
	1500 x 4000	★	☆				
	1500 x 6000	★	★	★	★		
	2000 x 6000	★	★	★	★	★	★
	2500 x 6000	☆	☆				
	2500 x 7000	☆	☆				
	2500 x 7500	★	★		☆		
13mm	2000 x 6000	★	★				
16mm	1219 x 2438	★	★				
	1500 x 3000	★	★				
	1500 x 6000	☆	★		★	★	
	2000 x 6000	★	★	★	★	★	★
	2500 x 6000	☆	★				
	2500 x 7500	☆	★				
17mm	2000 x 6000	★	★				
19mm	2000 x 6000	★	★				
20mm	1219 x 2438	★	★				
	1500 x 3000	★	★				
	1500 x 6000	★	★		★		
	2000 x 6000	★	★	★	★	★	★
	2500 x 6000	☆	☆				
	2500 x 7500	★	☆				
22mm	2000 x 6000	★	★				
25mm	1219 x 2438	★	★				
	1500 x 3000	☆	☆				
	1500 x 6000	★	★	☆	★		
	2000 x 6000	★	★	★	★	★	★
	2500 x 6000	☆	★				
32mm	1500 x 6000	☆	★				
	2000 x 6000	★	★	★			☆
	2500 x 6000	☆	★				
40mm	1500 x 6000	☆	★				
	2000 x 6000	★	★	★	★		☆
	2500 x 6000	★	☆				
50mm	1500 x 6000	☆	☆				
	2000 x 6000	★	★	★	★		☆
65mm	2000 x 4000	★	★				
80mm	2000 x 4000	★	★				

FLOOR PLATE/COIL

SPECIFICATIONS: ASTM A240/480

FINISH: PRESSED FLOOR PLATE, HRAP CHEQUER PLATE



SIZE		TP 304	TP 316
PRESSED FLOOR PLATE			
2mm	1219 x 2438	★	☆
3mm	1219 x 2438	★	☆
	1219 x 3048	☆	☆
4.5mm	1219 x 2438	★	☆
	1500 x 3000	★	☆
6mm	1219 x 2438	☆	☆
HRAP CHEQUER PLATE			
3.5mm	1219 x 2438	★	☆
4.5mm	1219 x 2438	★	☆
	1524 x 3000	★	☆
6mm	1219 x 2438	★	☆
	1219 x 6000	★	☆
	1524 x 3000	★	☆
HRAP CHEQUER PLATE COIL			
3.5mm	1219	★	☆
4.5mm	1219	★	☆
	1524	★	☆
6mm	1219	★	
	1524	★	

STAINLESS STEEL FLAT

ROUND BAR

SPECIFICATIONS:	ASTM A276 / A484
LENGTHS:	4 METRE FIXED & RANDOMS
FINISH:	COLD DRAWN & POLISHED PEELED & REELED CENTRELESS/PRECISION GROUND
TOLERANCE:	H8 / H9 / H10 / H11 / K12



SIZE	303	304	316	431	2205	253MA	APPROX. WEIGHT
mm							kg/metre
3.18		★	★				0.062
3.96		★	★				0.1
4.76		★	★				0.14
5		★	★				0.155
6	☆	★	★			★	0.23
6.35	☆	★	★				0.25
7.94		★	★				0.39
8	★	★	★			★	0.4
9.53	☆	★	★	☆			0.56
10	★	★	★	☆		★	0.62
11.11		★	★				0.76
12	☆	★	★	☆	★	★	0.89
12.7	★	★	★				0.99
14.28		★	★				1.26
15		★					1.39
15.88	★	★	★	★			1.552
16		★	★			★	1.58
19.05	★	★	★	★	☆		2.235
20	☆	★	★	★	★	★	2.47
22.23	★	★	★	★			3.042
24		★	★				3.551
25	☆	★	★	☆		★	3.853
25.4	☆	★	★	★	★		3.973
28.58		★	★	★			5.03
30	★	★	★				5.55
31.75	★	★	★	★	★		6.21
34.93		★	★				7.512
35		★	★			★	7.553
36		☆	★				8
38.1		★	★	★	★		8.94
40		★	★			★	9.87
41.28		☆	★				10.5

ROUND BAR

SPECIFICATIONS:	ASTM A276 / A484
LENGTHS:	4 METRE FIXED & RANDOMS
FINISH:	COLD DRAWN & POLISHED PEELED & REELED CENTRELESS/PRECISION GROUND
TOLERANCE:	H8 / H9 / H10 / H11 / K12



SIZE	303	304	316	431	2205	253MA	APPROX. WEIGHT
mm							kg/metre
44.45		★	★	★	★		12.17
45		★					12.49
50		★	★			★	15.413
50.8		★	★	★	★		15.9
57.15		★	★	★	★		20.12
60		★	★				22.2
63.5		★	★	★	★		24.84
69.85		★	★	★			30.05
70						★	30.2
76.2		★	★	★	☆		35.76
80				★		★	39.46
82.55		★	★	★	☆		41.98
88.9		★	★	★			48.68
90						★	49.9
95.25			☆				55.88
101.6		★	★	★			63.59
108		★					73.2
110						★	74.6
114.3		★	★				81.9
120			★				89.2
127		★	★			☆	100.9
139.7			★				122.5
152.4		★	★			★	144.9
165.1			★				169.9
177.8			★				196.9
203.2		☆	★				256.8
228.6			☆				324.7
254			★				403
279.4			★				487.6
304.8			★				575.9

STAINLESS STEEL BAR

TECHNICAL DATA

Stainless steel bar is usually supplied to comply with ASTM A276 (or ASTM A582 for free-machining grades). Both specification refer to ASTM A484M for dimensional tolerances, except as noted below for round bar. Available tolerances will vary dependent upon bar section size, condition and finish.

ROUND BAR

Cold-finished round bar is usually supplied to ASTM A276/A484 OR A582/A484M

FINISH	DIAMETER TOLERANCE
DRAWN	H9
PEELED & REELED	H9 / H10
SMOOTH TURNED	H11 / K12
GROUND	H8 OR H9

NOMINAL BAR	TOLERANCE NUMBER								
SIZE (mm)	6	7	8	9	10	11	12	13	14
0 to 3	6	10	14	25	40	60	100	140	250
3 to 6	8	12	18	30	48	75	120	180	300
6 to 10	9	15	22	36	58	90	150	220	360
10 to 18	11	18	27	43	70	110	180	270	430
18 to 30	13	21	33	52	84	130	210	330	520
30 to 50	16	25	39	62	100	160	250	390	620
50 to 80	19	30	46	74	120	190	300	460	740
80 to 120	22	35	54	87	140	220	350	540	870
120 to 180	25	40	63	100	160	250	400	630	1000
180 to 250	29	46	72	115	185	290	460	720	1150
250 to 315	32	52	81	130	210	320	520	810	1300
315 to 400	36	57	89	140	230	360	570	890	1400
400 to 500	40	63	97	155	250	400	630	970	1550

Tolerance values given in microns = 0.001mm

H = all minus

J = equal

K = all plus

FLAT BAR

SPECIFICATIONS:	ASTM A276/A484M
LENGTHS:	4 METRE FIXED & RANDOMS
FINISH:	SLIT ROLLED EDGE (SRE) HOT ROLLED ANNEALED & PICKLED (HRAP)



SIZE	304		316		APPROX. WEIGHT
mm	SRE	HRAP	SRE	HRAP	kg/metre
3 x 12	★	☆	★	☆	0.317
3 x 20	★	☆	★	☆	0.48
3 x 25	★	★	★	☆	0.63
3 x 30	★	★	★	☆	0.79
3 x 40	★	★	★	☆	0.948
3 x 50	★	★	★	☆	1.3
3 x 65	★		★		1.53
3 x 75	★		★	☆	1.77
3 x 100	★		★		2.50
5 x 20	★	☆	★	☆	0.79
5 x 25	★	★	★	★	0.987
5 x 30	★	★	★	★	1.19
5 x 40	★	★	★	★	1.58
5 x 50	★	★	★	★	1.97
5 x 65	★	☆	★	☆	2.56
5 x 75	★	☆	★	☆	2.96
5 x 100	★		★		3.95
6 x 12		☆		★	0.648
6 x 20	★	★	★	☆	0.97
6 x 25	★	★	★	★	1.3
6 x 30	★	★	★	★	1.62
6 x 40	★	★	★	★	1.93
6 x 50	★	★	★	★	2.59
6 x 65	★	★	★	★	3.25
6 x 75	★	★	★	★	3.89
6 x 90	☆		☆		4.52
6 x 100	★	★	★	★	5.18
6 x 150	★	☆	★	☆	7.38
8 x 25	★				1.63
8 x 30	★				1.97
8 x 40	★		★		2.63
8 x 50	★	★	★	☆	3.28
8 x 65	★	★	★	☆	4.26
8 x 75	★	★	★	☆	4.92
8 x 100	★	★	★	☆	6.56

FLAT BAR

SPECIFICATIONS:	ASTM A276/A484M
LENGTHS:	4 METRE FIXED & RANDOMS
FINISH:	SLIT ROLLED EDGE (SRE) HOT ROLLED ANNEALED & PICKLED (HRAP)



SIZE	304		316		APPROX. WEIGHT
mm	SRE	HRAP	SRE	HRAP	kg/metre
10 x 20		★		★	1.58
10 x 25		★		★	1.97
10 x 30	☆	★	☆	★	2.43
10 x 40	☆	★	☆	★	3.16
10 x 50	☆	★	☆	★	3.96
10 x 65	☆	★	☆	★	5.13
10 x 75	☆	★	☆	★	5.93
10 x 100	☆	★	☆	★	7.9
10 x 125	☆	☆	☆	☆	10.16
10 x 150	☆	★	☆	★	11.83
12 x 25		★		★	2.59
12 x 30	☆	☆	☆	☆	3.25
12 x 40	☆	★	☆	★	3.89
12 x 50	☆	★	☆	★	5.18
12 x 65	☆	★	☆	★	6.48
12 x 75	☆	★	☆	★	7.77
12 x 100	☆	★	☆	★	10.36
12 x 150		★		★	15.50
16 x 40		★		☆	5.05
16 x 50		★		★	6.48
16 x 65		★		☆	8.21
16 x 75		★		★	9.35
16 x 100		★		☆	13.10
20 x 40		★		★	6.56
20 x 50		★		★	7.9
20 x 65		☆		☆	10.2
20 x 75		★		★	11.9
20 x 100		★		★	15.8
25 x 50		★		★	10.36
25 x 75		★		☆	15.48
25 x 100		★		☆	20.69

ANGLE BAR

SPECIFICATIONS: ASTM A276/A484M

LENGTHS: 6 METRE FIXED & RANDOMS

FINISH: HOT ROLLED ANNEALED
& PICKLED



SIZE	304	316	APPROX. WEIGHT
mm			kg/metre
3 X 20 X 20	★	★	0.9
3 X 25 X 25	★	★	1.21
3 X 30 X 30	★	★	1.53
3 X 40 X 40	★	★	1.86
3 X 50 X 50	★	★	2.5
4 X 30 X 30	☆	☆	1.95
4 X 40 X 40	☆	☆	2.6
5 X 25 X 25	★	★	1.77
5 X 30 X 30	★	★	2.25
5 X 40 X 40	★	★	2.98
5 X 50 X 50	★	★	3.79
6 X 25 X 25	★	★	2.26
6 X 30 X 30	★	★	2.92
6 X 40 X 40	★	★	3.56
6 X 50 X 50	★	★	4.95
6 X 65 X 65	★	★	6.16
6 x 50 x 75	☆	★	5.93
6 X 75 X 75	★	★	7.46
6 x 75 x 100	☆	★	8.35
6 X 100 X 100	★	★	10.05
8 x 75 x 75	★	☆	9.94
10 X 50 X 50	★	★	7.06
10 X 65 X 65	★	★	9.48
10 X 75 X 75	★	★	11.1
10 X 100 X 100	★	★	15
10 X 125 X 125	★	☆	20.1
10 X 150 X 150	☆	☆	23.7
12 x 100 x 100	☆	★	19.6

HEXAGON BAR

SPECIFICATIONS: ASTM A276/A582/A484M

LENGTHS: RANDOMS

FINISH: COLD DRAWN (CD)
HOT ROLLED (HR) &
ANNEALED (HRAP)



SIZE	304	316	AVG. WEIGHT
mm			kg/metre
6.35	☆	☆	0.28
7.92	☆	☆	0.44
8	☆	☆	0.45
9.53	☆	☆	0.65
11.3	☆	★	0.91
13.34	☆	★	1.25
15.24	☆	★	1.63
17	☆	☆	2.02
18.03	☆	★	2.27
19.05	☆	★	2.53
20	★	☆	3
20.83	☆	★	3.02
22.23	☆	★	3.36
23.37	☆	★	3.79
25.65	☆	★	4.56
28.58	☆	★	5.65
30.48	☆	★	6.42
31.75	☆	☆	6.86
33.05	☆	☆	7.54
37.59	☆	★	9.86
42.42	☆	☆	12.5
47.63	☆	☆	15.73
50.8	☆	☆	17.87
57.15	☆	☆	22.57
63.5	☆	☆	27.83

HOLLOW BAR

GRADE:	316 (FREE MACHINING)
SPECIFICATIONS:	ASTM A511
LENGTHS:	2 TO 6 METRES
TOLERANCE:	OUTSIDE DIAMETER +2 / -0% INSIDE DIAMETER +0 / -2%



SIZE		DIMENSIONS AFTER ROUGH MACHINING				AVERAGE WEIGHT	316
O.D.	I.D.	CHUCKED TRUE TO O.D.		CHUCKED TRUE TO I.D.			
mm	mm	MAX O.D. mm	MIN I.D. mm	MAX O.D. mm	MIN I.D. mm	kg/metre	
32	20	31	22	30	21	4.23	☆
	16	31	18	30	17	5.11	★
36	25	35	27	34	26	4.58	★
	20	35	22	34	21	5.96	★
	16	35	18.5	33.5	17	6.84	★
40	28	39	30	38	29	5.53	★
	25	39	27	38	26	6.51	★
	20	39	22.5	37.5	21	7.89	★
45	32	44	34	43	33	6.75	☆
	28	44	30.5	42.5	29	8.23	★
	20	44	22.5	42.5	21	10.6	★
50	36	49	38	48	37	8.08	☆
	32	49	34.5	47.5	33	9.75	★
	25	49	27.5	47.5	26	12.2	★
56	40	55	42	54	41	10.3	★
	36	55	38.5	53.5	37	12.1	★
	28	55	30.5	53.5	29	15.3	★
63	50	62	52	61	51	10	★
	40	62	42.5	60.5	41	15.6	★
	36	62	38.5	60.5	37	17.5	☆
	32	62	34.5	60.5	33	19.1	★
71	56	69.5	58	69	57	13	★
	45	69.5	47.5	68.5	46	19.8	★
	40	69.5	42.5	68.5	41	22.4	★
	36	69.5	38.5	68.5	37	24.3	★
75	40	73.5	42.5	72	41	26.2	★
80	63	78.5	65.5	77.5	64	16.5	★
	50	78.5	52.5	77	51	25.5	★
	45	78.5	47.5	77	46	28.5	☆
	40	78.5	43	77	41	31.1	★
85	45	83.5	48	82	46	33.7	★
90	71	88.5	73.5	87.5	72.5	20.8	★
	63	88.5	65.5	87	64	27.4	★
	56	88.5	58.5	87	57	32.5	☆
	50	88.5	53	87	51	36.4	★
95	50	93.5	52	91	51	42.3	☆
100	80	98.5	82.5	97	81.5	24.6	★
	71	98.5	73.5	97	72.5	32.9	★
	63	98.5	65.5	96.5	64	39.5	★
	56	98.5	59	96.5	57	44.6	★
106	80	104	82.5	103	81.5	32.5	★
	71	104	74	102.5	72.5	40.8	★
	63	104	66	102.5	64	47.4	★
	56	104	59	102.5	57	52.5	★

HOLLOW BAR

GRADE:	316 (FREE MACHINING)
SPECIFICATIONS:	ASTM A511
LENGTHS:	2 TO 6 METRES
TOLERANCE:	OUTSIDE DIAMETER +2 / -0% INSIDE DIAMETER +0 / -2%



SIZE		DIMENSIONS AFTER ROUGH MACHINING				AVERAGE WEIGHT	316
O.D.	I.D.	CHUCKED TRUE TO O.D.		CHUCKED TRUE TO I.D.			
mm	mm	MAX O.D. mm	MIN I.D. mm	MAX O.D. mm	MIN I.D. mm	kg/metre	
112	v	110	93	109	91.5	30.4	☆
	80	110	83	108.5	81.5	40.8	★
	71	110	74	108.5	72.5	49.2	★
	63	110	66	108	64	55.8	★
118	90	116	93	114.5	91.5	39.2	★
	80	116	83	114.5	81.5	49.7	★
	71	116	74	114	72.5	57.9	☆
	63	116	66	114	64	64.6	★
125	100	123	103	121.5	101.5	38.4	★
	90	123	93	121.5	91.5	50.1	★
	80	123	83	121	81.5	60.5	★
	71	123	74.5	121	72.5	68.9	★
132	106	130	109	128.5	108	42.3	★
	90	130	93.5	128	91.5	61.6	★
	80	130	83.5	128	81.5	72	★
	71	130	74.5	127.5	72.5	80.3	★
140	112	137.5	115	136.5	114	48.2	★
	100	137.5	103.5	136	101.5	63.8	★
	90	137.5	93.5	136	91.5	75.4	☆
	80	137.5	83.5	135.5	81.5	85.9	★
150	125	147.5	128.5	146	127	47.8	★
	106	147.5	109.5	146	108	74.7	★
	95	147.5	98.5	145.5	96.5	88.3	☆
	80	147.5	84	145	81.5	104.4	★
160	132	157.5	135.5	156	134	56.6	★
	122	157.5	125.5	156	124	72.1	☆
	112	157.5	115.5	155.5	114	86.5	★
170	140	167	143.5	166	142.5	64.3	★
	130	167	134	165.5	132	81	☆
	118	167	122	165.5	120	99.1	★
180	150	177	154	175.5	152.5	68.9	☆
	140	177	144	175.5	142.5	86.6	★
	125	177	129	175	127	111	★
190	160	187	164	185.5	162.5	73.5	★
	150	187	154	185.5	152.5	92.4	☆
	132	187	136.5	185	134	123.6	★
200	160	197	164	195	162.5	98.4	☆
	150	197	154.5	195	152.5	117.3	☆
	140	197	144.5	194.5	142.5	135.2	★
212	170	208.5	174.5	207	173	109.7	★
	130	208.5	135	206	132	183.3	★
224	180	220.5	184.5	218.5	183	121.6	☆
	140	220.5	145	217.5	142.5	200.2	☆
236	190	232	195	230.5	193	134.2	★
	150	232	155.5	229.5	152.5	217.6	★
250	200	246	205	244	203	153.7	★

SQUARE BAR

SPECIFICATIONS: ASTM A276/A582/A484M

LENGTHS: RANDOMS

FINISH: COLD DRAWN (CD), HOT ROLLED
ANNEALED & PICKLED (HRAP)



SIZE	304	316	AVG. WEIGHT
mm			kg/metre
4	☆	☆	0.13
6	☆	★	0.33
6.35	☆	☆	0.34
8	★	★	0.53
9.52	☆	☆	0.75
10	★	★	0.8
12	★	★	1.27
12.7	☆	☆	1.32
15.88	☆	☆	2.03
16	★	★	2.05
19.05	★	☆	2.98
20	★	★	3.21
25	★	★	5.18
25.4	☆	☆	5.29
32	★	★	8.21
38.1	★	☆	11.9
40	★	★	12.83
45	☆	☆	16.24
50	★	★	20.05
50.8	☆	☆	21.2
63.5	☆	★	31.65

TECHNICAL DATA

Stainless steel bar is usually supplied to comply with ASTM A276 (or ASTM A582 for free-machining grades). Both specification refer to ASTM A484M for dimensional tolerances. Available tolerances will vary dependent upon bar section size, condition and finish.

FLAT BAR

Hot-finished (HRAP to ASTM A276 / A484M) These tolerances are for hot finished flat bars, rolled as bars, in HRAP condition. Note that different tolerances apply for flat bar cut from coil, sheet or plate.

WIDTH	THICKNESS TOLERANCE FOR THICKNESS mm			WIDTH TOLERANCE
mm	3.2 to 13	13 to 25	25 to 50	mm (SRE)
UP to 25	+/- 0.20	+/- 0.25	–	+/- 0.40
25 to 50	+/- 0.30	+/- 0.40	+/- 0.80	+/- 0.80
50 to 100	+/- 0.40	+/- 0.50	+/- 0.80	+ 1.6 to - 0.80
100 to 150	+/- 0.40	+/- 0.50	+/- 0.80	+ 2.40 to -1.60

SQUARE & HEXAGONAL BAR

Cold-finished to ASTM A276 / A582 / A484M)

SPECIFIED SIZE mm	SIZE TOLERANCE mm
3.00 to 8.00	+Nil, - 0.05
8.00 to 13.00	+Nil, - 0.08
13.00 to 25.00	+Nil, - 0.10
25.00 to 50.00	+Nil, - 0.15
50.00 to 75.00	+Nil, - 0.20
over 75.00	+Nil, - 0.25

ANGLE BAR

Hot-finished to ASTM A276 / A484M)

LENGTH OF LEG	LEG TOLERANCE
up to 150mm	+/- 3.0mm
over 150mm	+/- 5.0 - 3.0mm

CHANNEL

SPECIFICATIONS:	ASTM A276/A484M
LENGTHS:	6 METRES FIXED
FINISH:	HOT ROLLED, ANNEALED & PICKLED (HRAP)
GRADE:	304 / 316



SIZE mm	304	316
T x H x B		
3 x 40 x 20	☆	☆
3 x 50 x 25	☆	☆
4 x 60 x 30	☆	☆
4 x 35 x 70	☆	☆
4 x 80 x 40	☆	☆
4 x 90 x 45	☆	☆
4 x 100 x 50	☆	☆
5 x 60 x 30	☆	☆
5 x 70 x 35	☆	☆
5 x 80 x 40	☆	★
5 x 90 x 45	☆	☆
5 x 100 x 50	☆	☆
5 x 120 x 60	☆	☆
5 x 130 x 65	☆	☆
6 x 60 x 30	☆	☆
6 x 70 x 35	☆	☆
6 x 80 x 40	☆	☆
6 x 90 x 45	☆	☆
6 x 100 x 50	★	★
6 x 120 x 60	☆	☆
6 x 130 x 65	☆	☆
6 x 140 x 70	☆	☆
6 x 150 x 75	★	★
6 x 160 x 80	☆	☆
6 x 180 x 90	☆	☆
6 x 200 x 100	☆	☆
9 x 150 x 75		★
10 x 200 x 100		★

CHANNEL TOLERANCES - TECHNICAL DATA

UNIT WEIGHT KG/MTR

SIZE mm		THICKNESS T mm						
H x B	3	4	5	6	7	8	9	10
40 x 20	1.79							
50 x 25	2.27							
60 x 30		3.56	4.37	5.12				
70 x 35		4.21	5.17	6.08				
80 x 40		4.48	5.96	7.03				
90 x 45		5.55	6.83	8.05				
100 x 50		6.18	7.62	8.98	10.3	11.7	13.0	14.2
120 x 60			9.20	10.9	12.6	14.2		
130 x 65			10.1	11.9	13.8	15.5	17.3	19.1
140 x 70				12.9	14.9	16.8	19.8	20.7
150 x 75				13.8	16.0	18.1	20.2	22.2
160 x 80				14.8	17.1	19.3	21.6	23.8
180 x 90				16.7	19.4	22.0	24.5	27.0
200 x 100				18.6	21.6	24.5	27.4	30.2

SIZE TOLERANCES

SIZE mm				THICKNESS T mm							
H	Tolerance	B	Tolerance	3	4	5	6	7	8	9	10
40	±1.5	20	±1.5	±0.4							
50	±1.5	25	±1.5	±0.4							
60	±2.0	30	±1.5		±0.4	±0.4	±0.4				
70	±2.0	35	±1.5		±0.4	±0.4	±0.4				
80	±2.0	40	±1.5		±0.4	±0.6	±0.4				
90	±2.0	45	±1.5		±0.4	±0.4	±0.4				
100	±2.0	50	±2.0		±0.6	±0.6	±0.6	±0.4	±0.4	±0.4	±0.6
120	±3.0	60	±3.0			±0.4	±0.4	±0.4	±0.4		
130	±3.0	65	±3.0			±0.4	±0.6	±0.4	±0.4	±0.4	±0.6
140	±3.0	70	±3.0				±0.6	±0.6	±0.6	±0.6	±0.6
150	±3.0	75	±3.0				*±0.6	±0.6	±0.6	*±0.6	±0.6
160	±3.0	80	±3.0				±0.6	±0.6	±0.6	±0.6	±0.6
180	±3.0	90	±3.0				±0.6	±0.6	±0.6	±0.6	±0.6
200	±4.0	100	±3.0				±0.6	±0.6	±0.6	±0.6	±0.6

CHANNEL TOLERANCES - TECHNICAL DATA

UNIT WEIGHT KG/MTR

SIZE mm		THICKNESS T mm						
H x B	3	4	5	6	7	8	9	10
40 x 20	1.79							
50 x 25	2.27							
60 x 30		3.56	4.37	5.12				
70 x 35		4.21	5.17	6.08				
80 x 40		4.48	5.96	7.03				
90 x 45		5.55	6.83	8.05				
100 x 50		6.18	7.62	8.98	10.3	11.7	13.0	14.2
120 x 60			9.20	10.9	12.6	14.2		
130 x 65			10.1	11.9	13.8	15.5	17.3	19.1
140 x 70				12.9	14.9	16.8	19.8	20.7
150 x 75				13.8	16.0	18.1	20.2	22.2
160 x 80				14.8	17.1	19.3	21.6	23.8
180 x 90				16.7	19.4	22.0	24.5	27.0
200 x 100				18.6	21.6	24.5	27.4	30.2

SIZE TOLERANCES

SIZE mm				THICKNESS T mm							
H	Tolerance	B	Tolerance	3	4	5	6	7	8	9	10
40	±1.5	20	±1.5	±0.4							
50	±1.5	25	±1.5	±0.4							
60	±2.0	30	±1.5		±0.4	±0.4	±0.4				
70	±2.0	35	±1.5		±0.4	±0.4	±0.4				
80	±2.0	40	±1.5		±0.4	±0.6	±0.4				
90	±2.0	45	±1.5		±0.4	±0.4	±0.4				
100	±2.0	50	±2.0		±0.6	±0.6	±0.6	±0.4	±0.4	±0.4	±0.6
120	±3.0	60	±3.0			±0.4	±0.4	±0.4	±0.4		
130	±3.0	65	±3.0			±0.4	±0.6	±0.4	±0.4	±0.4	±0.6
140	±3.0	70	±3.0				±0.6	±0.6	±0.6	±0.6	±0.6
150	±3.0	75	±3.0				*±0.6	±0.6	±0.6	*±0.6	±0.6
160	±3.0	80	±3.0				±0.6	±0.6	±0.6	±0.6	±0.6
180	±3.0	90	±3.0				±0.6	±0.6	±0.6	±0.6	±0.6
200	±4.0	100	±3.0				±0.6	±0.6	±0.6	±0.6	±0.6

SEAMLESS & WELDED PIPE

SPECIFICATIONS:	ASTM A312M-08	
LENGTHS:	6.1 METRE/RANDOMS	
FINISH:	WELDED SEAMLESS	ANNEALED & PICKLED COLD FINISH/HOT FINISH



NB PIPE SIZE		SIZE		WELDED			SEAMLESS			APPROX. WGT
Inch	mm	O.D.	WT	304/L	316/L	2205	304/L	316/L	2205	kg/metre
SCHEDULE 10 / 10s										
1/8	6	10.287	1.244			☆	☆	☆		0.2772
1/4	8	13.716	1.651	★	★	☆	☆	★	☆	0.4905
3/8	10	17.145	1.651	★	★	☆	☆	☆	☆	0.6301
1/2	15	21.336	2.108	★	★	☆	★	★	☆	0.9984
3/4	20	26.67	2.108	★	★	☆	★	★	☆	1.275
1	25	33.401	2.768	★	★	☆	★	★	☆	2.089
1 1/4	32	42.164	2.768	★	★	☆	☆	★	☆	2.687
1 1/2	40	48.26	2.768	★	★	☆	★	★	☆	3.102
2	50	60.325	2.768	★	★	☆	★	★	☆	3.925
2 1/2	65	73.025	3.048	★	★	☆	★	★	☆	5.254
3	80	88.9	3.048	★	★	☆	★	★	☆	6.45
3 1/2	90	101.6	3.048	★	★	☆	☆	☆	☆	7.399
4	100	114.3	3.048	★	★	☆	☆	★	☆	8.352
5	125	141.3	3.403	★	★	☆	☆	☆	☆	11.56
6	150	168.275	3.403	★	★	☆	☆	★	☆	13.82
8	200	219.075	3.759	★	★	☆			☆	19.93
10	250	273.05	4.191	★	★	☆				27.82
12	300	323.85	4.572	★	★	☆				35.95
14	350	355.6	4.78	★	★	☆				42.1
16	400	406.4	4.78	★	★	☆				48.2
18	450	457.2	4.78	★	★					54.3
20	500	508	5.53	★	★					69.8
24	600	609.6	6.35	★	★					96.2
SCHEDULE 40s / STD WALL										
1/8	6	10.287	1.727					★		0.3641
1/4	8	13.716	2.235	★	★		★	★		0.6321
3/8	10	17.145	2.311	★	★	☆	★	★		0.8445
1/2	15	21.336	2.768	★	★	☆	★	★	★	1.266
3/4	20	26.67	2.87	★	★	☆	★	★		1.682
1	25	33.401	3.378	★	★	☆	★	★	☆	2.498
1 1/4	32	42.164	3.556	★	★	☆	★	★	☆	3.382
1 1/2	40	48.26	3.683	★	★	☆	★	★	☆	4.044
2	50	60.325	3.911	★	★	☆	★	★	☆	5.435
2 1/2	65	73.025	5.156	★	★	☆	☆	★	☆	8.619
3	80	88.9	5.486	★	★	☆	★	★	☆	11.27
3 1/2	90	101.6	5.74	★	★	☆	★	★	☆	13.55
4	100	114.3	6.019	★	★	☆	★	★	☆	16.05
5	125	141.3	6.553	★	★	☆	☆	★	☆	21.75
6	150	168.275	7.112	★	★	☆	★	★	☆	28.22
8	200	219.075	8.178	★	★	☆	☆	★	☆	42.48
10	250	273.05	9.271	★	★	☆				60.23
12	300	323.85	9.53	★	★	☆				73.88
14	350	355.6	9.53	☆	★	☆				81.2
16	400	406.4	9.53	☆	★					93.2
18	450	457.2	9.53	☆	★					105.1
20	500	508	9.53	☆	★					117.0
24	600	609.6	9.53	☆	★					140.8

SEAMLESS & WELDED PIPE

SPECIFICATIONS: ASTM A312M-08

LENGTHS: 6.1 METRE/RANDOMS

FINISH: WELDED ANNEALED & PICKLED
SEAMLESS COLD FINISH/HOT FINISH



NB PIPE SIZE		SIZE		WELDED			SEAMLESS			APPROX. WGT
Inch	mm	O.D.	WT	304/L	316/L	2205	304/L	316/L	2205	kg/metre
SCHEDULE 80s / XS										
1/8	6	10.287	2.413					★		0.4679
1/4	8	13.716	3.023					★		0.7962
3/8	10	17.145	3.2					★		1.099
1/2	15	21.336	3.734				☆	★		1.618
3/4	20	26.67	3.911				☆	★	☆	2.193
1	25	33.401	4.546				☆	★	☆	3.231
1 1/4	32	42.164	4.851				★	★	☆	4.459
1 1/2	40	48.26	5.08				★	★	☆	5.402
2	50	60.325	5.537				★	★	☆	7.472
2 1/2	65	73.025	7.01				★	★	☆	11.39
3	80	88.9	7.62				★	★	☆	15.25
3 1/2	90	101.6	8.077				☆	★	☆	18.6
4	100	114.3	8.559				★	★	☆	22.29
5	125	141.3	9.525				☆	★	☆	30.92
6	150	168.275	10.97				★	★	☆	42.51
8	200	219.075	12.7				☆	★	☆	64.56
10	250	273.05	12.7					★		81.5
12	300	326.85	12.7							97.4
14	350	355.6	12.7							107.3
16	400	406.4	12.7							123.2
18	450	457.2	12.7							139.1
20	500	508	12.7							155.0
24	600	609.6	12.7							186.8
SCHEDULE 160										
1/2	15	21.336	4.75					★		1.94
3/4	20	26.67	5.537					★		2.882
1	25	33.401	6.35					★		4.231
1 1/4	32	42.164	6.35					☆		5.602
1 1/2	40	48.26	7.137					★		7.23
2	50	60.325	8.712					★		11.07
2 1/2	65	73.025	9.525					☆		14.89
3	80	88.9	11.12					☆		21.3
4	100	114.3	13.48					☆		33.49
5	125	141.3	15.87					☆		49.04
6	150	168.275	18.23					☆		67.4
8	200	219.075	23.01					☆		111.1
10	250	273.05	28.57							172
12	300	326.85	33.32							238.5
14	350	355.6	35.71							281.3
16	400	406.4	40.46							364.7
18	450	457.2	45.23							459
20	500	508	50.01							563.9
24	600	609.6	59.51							806.3

BUTTWELD PIPE FITTINGS

SPECIFICATIONS: ASTM A403

ANSI B16.9

MATERIAL: WELDED / SEAMLESS



SIZE		90° ELBOW				45° ELBOW		EQUAL		STUB END		CAPS
		LONG RADIUS		SHORT RADIUS		LONG RADIUS		TEE		TYPE B		
Inch	mm	304L	316L	304L	316L	304L	316L	304L	316L	304L	316L	316L
SCHEDULE 10												
1/2	15	★	★	☆	☆	★	★	★	★	☆	★	★
3/4	20	★	★	☆	☆	★	★	★	★	☆	★	★
1	25	★	★	☆	☆	★	★	★	★	☆	★	★
1 1/4	32	★	★	☆	☆	★	★	★	★	☆	★	★
1 1/2	40	★	★	☆	★	★	★	★	★	☆	★	★
2	50	★	★	★	★	★	★	★	★	★	★	★
2 1/2	65	★	★	☆	☆	★	★	★	★	★	★	★
3	80	★	★	☆	☆	★	★	★	★	★	★	★
3 1/2	90	☆	★	☆	☆	☆	☆	☆	☆	☆	☆	☆
4	100	★	★	★	★	★	★	★	★	☆	★	★
5	125	★	★	☆	☆	☆	★	★	★	★	★	★
6	150	★	★	★	★	★	★	★	★	☆	★	★
8	200	★	★	★	★	★	★	★	★	★	★	★
10	250	★	★	☆	☆	★	★	★	★	☆	★	★
12	300	★	★	☆	☆	☆	★	★	★	☆	★	★
14	350	★	★	☆	☆	☆	☆	☆	☆	☆	☆	☆
16	400	★	★	☆	☆	☆	☆	☆	★	☆	★	☆
18	450	☆	★	☆	☆	☆	☆	☆	☆	☆	☆	☆
20	500	☆	★	☆	☆	☆	☆	☆	☆	☆	☆	☆
24	600	☆	★	☆	☆	☆	☆	☆	☆	☆	☆	☆
SCHEDULE 40												
1/2	15	★	★	☆	☆	★	★	★	★	☆	★	☆
3/4	20	★	★	☆	☆	★	★	★	★	☆	★	★
1	25	★	★	☆	☆	★	★	★	★	★	★	★
1 1/4	32	★	★	☆	☆	★	★	★	★	☆	★	★
1 1/2	40	★	★	☆	★	★	★	★	★	★	★	★
2	50	★	★	☆	★	★	★	★	★	★	★	★
2 1/2	65	★	★	☆	☆	★	★	★	★	☆	★	★
3	80	★	★	☆	★	★	★	★	★	☆	★	★
3 1/2	90	☆	★	☆	☆	☆	☆	☆	☆	☆	☆	☆
4	100	★	★	☆	★	★	★	★	★	★	★	★
5	125	★	★	☆	☆	☆	★	☆	★	☆	☆	★
6	150	★	★	☆	★	★	★	★	★	★	★	★
8	200	★	★	☆	☆	★	★	★	★	★	★	★
10	250	★	★	☆	☆	☆	★	★	★	☆	☆	★
12	300	★	★	☆	☆	☆	★	★	★	☆	☆	★
14	350	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
16	400	★	★	☆	☆	☆	☆	☆	☆	☆	☆	☆
20	500	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
24	600	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
SCHEDULE 80												
1	25		★									
1 1/2	40		★									
2	50		★									
2 1/2	65		★									
3	80		★									
4	100		★									
6	150		★									

STAINLESS STEEL PIPE

REDUCING BUTTWELD PIPE FITTINGS

SPECIFICATIONS: ASTM A403

ANSI B16.9

MATERIAL: WELDED / SEAMLESS



SIZE		CONCENTRIC REDUCER				ECCENTRIC REDUCER		REDUCING TEE	
		SCH 10		SCH 40		SCH 10	SCH 40	SCH 10	SCH 40
Inch	mm	304L	316L	304L	316L	316L	316L	316L	316L
3/4 x 1/2	20 x 15	★	★	☆	★	☆	★	☆	☆
1 x 1/2	25 x 15	★	★	★	★	☆	★	☆	☆
1 x 3/4	25 x 20	★	★	★	★	★	★	☆	☆
1 1/4 x 1/2	32 x 15	☆	★	☆	★	☆	☆		
1 1/4 x 3/4	32 x 20	☆	★	★	★	☆	☆	☆	☆
1 1/4 x 1	32 x 25	★	★	★	★	★	★	☆	☆
1 1/2 x 1/2	40 x 15	☆	★	★	★	☆	☆		
1 1/2 x 3/4	40 x 20	★	★	☆	★	★	★	★	☆
1 1/2 x 1	40 x 25	★	★	★	★	★	★	★	★
1 1/2 x 1 1/4	40 x 32	★	★	☆	★	★	★	☆	☆
2 x 3/4	50 x 20	☆	☆	☆	★	☆	☆	☆	☆
2 x 1	50 x 25	★	★	★	★	★	★	★	★
2 x 1 1/4	50 x 32	★	★	☆	★	★	★	☆	☆
2 x 1 1/2	50 x 40	★	★	★	★	★	★	★	★
2 1/2 x 1	65 x 25	☆	★	☆	★	☆	☆	☆	☆
2 1/2 x 1 1/4	65 x 32	☆	☆	☆	☆	☆	☆	☆	☆
2 1/2 x 1 1/2	65 x 40	☆	★	☆	★	★	★	☆	☆
2 1/2 x 2	65 x 50	★	★	★	★	★	★	★	☆
3 x 1	80 x 25	★	★	☆	★	☆	☆	☆	☆
3 x 1 1/4	80 x 32	☆	☆	☆	☆	☆	☆	☆	☆
3 x 1 1/2	80 x 40	★	★	☆	★	★	★	★	★
3 x 2	80 x 50	★	★	★	★	★	★	★	★
3 x 2 1/2	80 x 65	★	★	☆	★	★	★	★	☆
3 1/2 x 1 1/2	90 x 40	☆	☆	☆	☆	☆	☆	☆	☆
3 1/2 x 2	90 x 50	☆	☆	☆	☆	☆	☆	☆	☆
3 1/2 x 2 1/2	90 x 65	☆	☆	☆	☆	☆	☆	☆	☆
3 1/2 x 3	90 x 80	☆	☆	☆	☆	☆	☆	☆	☆
4 x 1 1/2	100 x 40	☆	★	☆	☆	☆	★	☆	☆
4 x 2	100 x 50	★	★	★	★	★	★	★	☆
4 x 2 1/2	100 x 65	★	★	☆	★	★	★	★	☆
4 x 3	100 x 80	★	★	★	★	★	★	★	★
4 x 3 1/2	100 x 90	☆	☆	☆	☆	☆	☆	☆	☆
5 x 2	125 x 50	☆	★	☆	☆	☆	☆	☆	☆
5 x 2 1/2	125 x 65	☆	☆	☆	☆	☆	☆	☆	☆
5 x 3	125 x 80	☆	★	☆	☆	★	☆	☆	☆
5 x 3 1/2	125 x 90	☆	☆	☆	☆	☆	☆	☆	☆
5 x 4	125 x 100	★	★	☆	☆	★	☆	☆	☆
6 x 2	150 x 50	☆	☆	☆	★	☆	☆	☆	☆
6 x 2 1/2	150 x 65	☆	☆	☆	☆	☆	☆	☆	☆
6 x 3	150 x 80	★	★	★	★	★	★	★	☆
6 x 3 1/2	150 x 90	☆	☆	☆	☆	☆	☆	☆	☆
6 x 4	150 x 100	★	★	★	★	★	★	★	☆
6 x 5	150 x 125	★	★	☆	★	★	★	☆	☆
8 x 3	200 x 80	☆	☆	☆	☆	☆	☆	☆	☆
8 x 3 1/2	200 x 90	☆	☆	☆	☆	☆	☆	☆	☆
8 x 4	200 x 100	★	★	★	★	★	★	☆	★
8 x 5	200 x 125	☆	☆	☆	☆	☆	☆	☆	☆
8 x 6	200 x 150	★	★	★	★	★	★	★	☆
10 x 4	250 x 100	☆	☆	☆	☆	☆	☆	☆	☆
10 x 5	250 x 125	☆	☆	☆	☆	☆	☆	☆	☆
10 x 6	250 x 150	☆	★	☆	★	★	☆	☆	☆
10 x 8	250 x 200	★	★	☆	★	★	★	☆	☆
12 x 5	300 x 125	☆	☆	☆	☆	☆	☆	☆	☆
12 x 6	300 x 150	☆	☆	☆	☆	☆	☆	☆	☆
12 x 8	300 x 200	★	★	☆	★	★	★	☆	☆
12 x 10	300 x 250	★	★	☆	★	★	☆	☆	☆

BUTTWELD PIPE FITTING - TECHNICAL DATA



90° SHORT
RADIUS ELBOW

90° LONG
RADIUS ELBOW

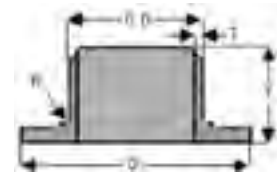
45° ELBOW

EQUAL TEE

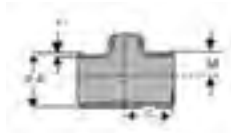
CAP

NOMINAL PIPE SIZE		OUTSIDE DIAMETER	WALL THICKNESS SCHEDULE				ELBOW 90°		45°	EQUAL TEE	CAP
			T				L/R	S/R	L/R		
Inch	mm	O.D.	5S	10S	40S	80S	A	A	B	C,M	E
1/2	15	21.3	1.65	2.11	2.77	3.73	38.1		16	25.4	25.4
3/4	20	26.7	1.65	2.11	2.87	3.91	38.1		11.2	28.6	25.4
1	25	33.4	1.65	2.77	3.38	4.55	38.1	25.4	22	38.1	38
1 1/4	32	42.2	1.65	2.77	3.56	4.85	47.5	32	25.4	47.6	38
1 1/2	40	48.3	1.64	2.77	3.68	5.08	57.1	38	28.6	57.2	38
2	50	60.3	1.65	2.77	3.91	5.54	76.2	51	35	63.5	38
2 1/2	65	73	2.11	3.05	5.16	7.01	95.2	63.5	44.5	76.2	38
3	80	88.9	2.11	3.05	5.49	7.62	114.5	76	51	85.7	51
3 1/2	90	101.6	2.11	3.05	5.74	8.08	133.5	89	57	95.3	64
4	100	114.3	2.11	3.05	6.02	8.56	152.5	101.5	63.5	104.8	64
5	125	141.3	2.77	3.4	6.55	9.52	190.5	127	79.3	123.8	76
6	150	168.3	2.77	3.4	7.11	10.97	228.5	152.5	95.2	142.9	89
8	200	219.1	2.77	3.76	8.18	12.7	305	203	127	177.8	102
10	250	273	3.4	4.19	9.27	12.7	381	254	159	215.9	127
12	300	323.9	3.96	4.57	9.52	12.7	457	305	190.5	254	152
14	350	355.6	3.97	4.78	9.53	12.7	533	356	222	279	165
16	400	406.4	4.19	4.78	9.53	12.7	610	406	254	305	178
18	450	457.2	4.19	4.78	9.53	12.7	686	457	286	343	203
20	500	508	4.78	5.54	9.53	12.7	762	508	318	381	229
24	600	609.6	5.54	6.35	9.53	12.7	914	610	381	432	267

NOMINAL PIPE SIZE		OUTSIDE DIAMETER	STUB END TYPE B		
			MSS		
Inch	mm	O.D.	G	F	R
1/2	15	21.3	35	51	0.8
3/4	20	26.7	43	51	0.8
1	25	33.4	51	51	0.8
1 1/4	32	42.2	64	51	0.8
1 1/2	40	48.3	73	51	0.8
2	50	60.3	92	64	0.8
2 1/2	65	73	105	64	0.8
3	80	88.9	127	64	0.8
3 1/2	90	101.6	140	76	0.8
4	100	114.3	157	76	1.6
5	125	141.3	186	76	1.6
6	150	168.3	216	89	1.6
8	200	219.1	270	102	1.6
10	250	273	324	127	1.6
12	300	323.9	381	152	1.6
14	350	355.6	413	152	1.6
16	400	406.4	470	152	1.6
18	450	457.2	533	152	1.6
20	500	508	584	152	1.6
24	600	609.6	692	152	1.6



BUTTWELD PIPE FITTING - TECHNICAL DATA



REDUCING TEE



CONCENTRIC REDUCER



ECCENTRIC REDUCER

NOMINAL PIPE SIZE			REDUCING TEE		REDUCERS CONCENTRIC & ECCENTRIC
Inch		mm	C	M	H
3/4 x 1/2		20 x 15	28.6	28.6	38.1
1 x 1/2		25 x 15	38.1	38.1	50.8
x 3/4		25 x 20		38.1	
1 1/4 x 1/2		32 x 15	47.6	47.6	50.8
x 3/4		32 x 20		47.6	
x 1		32 x 25		47.6	
1 1/2 x 1/2		40 x 15	57.2	57.2	63.5
x 3/4		40 x 20		57.2	
x 1		40 x 25		57.2	
x 1 1/4		40 x 32		57.2	
2 x 3/4		50 x 20	63.5	44.5	76.2
x 1		50 x 25		50.8	
x 1 1/4		50 x 32		57.2	
x 1 1/2		50 x 40		60.3	
2 1/2 x 1		65 x 25	76.2	57.2	88.9
x 1 1/4		65 x 32		63.5	
x 1 1/2		65 x 40		66.7	
x 2		65 x 50		69.9	
3 x 1		80 x 25	85.7	66.7	88.9
x 1 1/4		80 x 32		69.9	
x 1 1/2		80 x 40		73	
x 2		80 x 50		76.2	
x 2 1/2		80 x 65		82.6	
3 1/2 x 1 1/2		90 x 40	95.3	79.4	101.6
x 2		90 x 50		82.6	
x 2 1/2		90 x 65		88.9	
x 3		60 x 80		92.1	
4 x 1 1/2		100 x 40	104.8	85.7	101.6
x 2		100 x 50		88.9	
x 2 1/2		100 x 65		95.3	
x 3		100 x 80		98.4	
x 3 1/2		100 x 90		101.6	
5 x 2		125 x 50	123.8	104.8	127
x 2 1/2		125 x 65		108	
x 3		125 x 80		111.1	
x 3 1/2		125 x 90		114.3	
x 4		125 x 100		117.5	
6 x 2		150 x 50	142.9	117.5	139.7
x 2 1/2		150 x 65		120.7	
x 3		150 x 80		123.8	
x 3 1/2		150 x 90		127	
x 4		150 x 100		130.1	
x 5		150 x 125		136.5	
8 x 3		200 x 80	178	149.1	152
x 3 1/2		200 x 90		152	
x 4		200 x 100		155	
x 5		200 x 125		162	
x 6		200 x 150		168	
10 x 4		250 x 100	216	184	178
x 5		250 x 125		191	
x 6		250 x 150		194	
x 8		250 x 200		203	
12 x 5		300 x 125	254	216	203
x 6		300 x 150		219	
x 8		300 x 200		229	
x 10		300 x 250		241	

150LB BSP THREADED FITTINGS

SPECIFICATIONS:	ASTM A351-77	
GRADE:	316	
THREAD:	BSP (MALE-TAPER, FEMALE PARALLEL)	
PRESSURE:	NOMINAL WORKING	1000kPA 2000kPA TEST



Inch	mm	SOCKET ROUND	NIPPLE HEX	BARRELL NIPPLE	TOE NIPPLE	UNION 3 PCE	ELBOW 90° FEM	ELBOW 90° M/F	ELBOW 45° F/F	TEE FEM	HEX CAP	HEX PLUG	LOCK NUT	HOSE TAIL
1/8	6	★	★	★	★	★	★	★	☆	★	★	★	★	★
1/4	8	★	★	★	★	★	★	★	★	★	★	★	★	★
3/8	10	★	★	★	★	★	★	★	★	★	★	★	★	★
1/2	15	★	★	★	★	★	★	★	★	★	★	★	★	★
3/4	20	★	★	★	★	★	★	★	★	★	★	★	★	★
1	25	★	★	★	★	★	★	★	★	★	★	★	★	★
1 1/4	32	★	★	★	★	★	★	★	★	★	★	★	★	★
1 1/2	40	★	★	★	★	★	★	★	★	★	★	★	★	★
2	50	★	★	★	★	★	★	★	★	★	★	★	★	★
2 1/2	65	★	★	★	★	★	★	★	★	★	★	★	★	★
3	80	★	★	★	★	★	★	★	★	★	★	★	★	★
4	100	★	★	★	★	★	★	★	☆	★	★	★	★	☆
6	150	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆



Inch	mm	HEX REDUCING BUSH	HEX REDUCING NIPPLE	REDUCING SOCKET
1/4 x 1/8	8 x 6	★	★	★
3/8 x 1/8	10 x 6	★	★	★
3/8 x 1/4	10 x 8	★	★	★
1/2 x 1/8	15 x 6	★	★	★
1/2 x 1/4	15 x 8	★	★	★
1/2 x 3/8	15 x 10	★	★	★
3/4 x 18	20 x 6	★	★	☆
3/4 x 1/4	20 x 8	★	★	★
3/4 x 1/8	20 x 10	★	★	★
3/4 x 1/2	20 x 15	★	★	★
1 x 1/4	25 x 8	★	★	☆
1 x 3/8	25 x 10	★	★	☆
1 x 1/2	25 x 15	★	★	★
1 x 3/4	25 x 20	★	★	★
1 1/4 x 3/8	32 x 10	★	★	☆
1 1/4 x 1/2	32 x 15	★	★	★
1 1/4 x 3/4	32 x 20	★	★	★
1 1/4 x 1	32 x 25	★	★	★
1 1/2 x 1/2	40 x 15	★	★	☆
1 1/2 x 3/4	40 x 20	★	★	★
1 1/2 x 1	40 x 25	★	★	★
1 1/2 x 1 1/4	40 x 32	★	★	★
2 x 3/4	50 x 20	★	★	☆
2 x 1	50 x 25	★	★	★
2 x 1 1/4	50 x 32	★	★	★
2 x 1 1/2	50 x 40	★	★	★
2 1/2 x 1 1/4	65 x 32	★	★	☆
2 1/2 x 2	65 x 50	★	★	☆
3 x 2	80 x 50	★	★	★
3 x 2 1/2	80 x 65	★	★	☆
4 x 3	100 x 80	★	★	☆

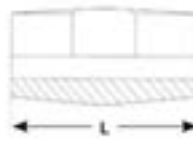
150LB BSP THREADED FITTINGS - TECHNICAL DATA



SOCKET



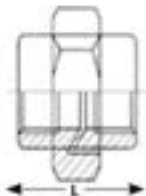
HEX NIPPLE



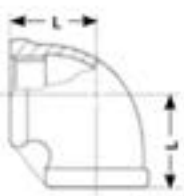
BARREL NIPPLE



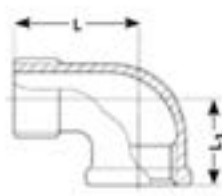
TOE NIPPLE



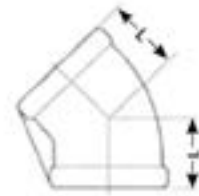
UNION 3 PCE F/F



ELBOW 90Deg F/F



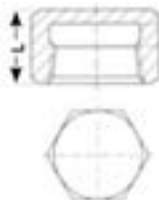
ELBOW 90Deg M/F



ELBOW 45Deg F/F



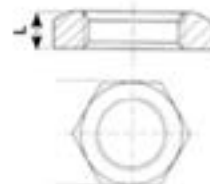
TEE F/F



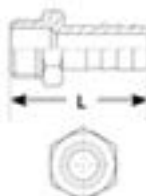
HEXAGON CAP



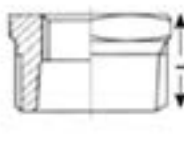
HEXAGON PLUG



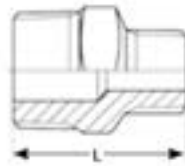
LOCK NUT



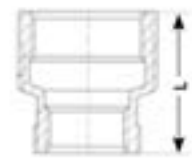
HOSE TAIL



HEX REDUCING BUSH



HEX REDUCING NIPPLE



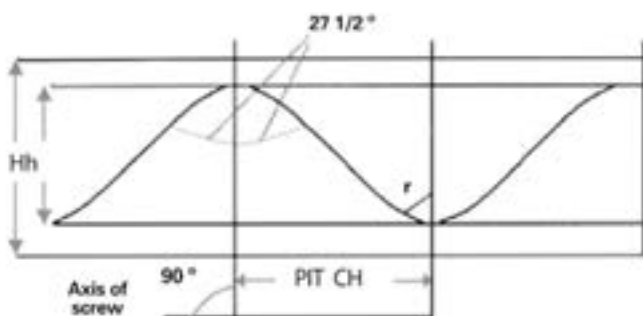
REDUCING SOCKET

SIZE mm	6		8		10		15		20		25		32		40		50		65		80		100	
LENGTH mm	L	L ₁	L	L ₁	L	L ₁	L	L ₁	L	L ₁	L	L ₁	L	L ₁	L	L ₁	L	L ₁	L	L ₁	L	L ₁	L	L ₁
FITTING																								
Socket	20		25		26		34		36		43		48		48		56		65		71		83	
Hexagon Nipple	31		33		42		50		51		63		59		64		68		73		86		90	
Barrel Nipple	40		40		40		60		60		60		80		80		100		100		120		120	
Toe Nipple	30		30		30		35		40		40		50		50		50		60		70		80	
Union 3 Pce F/F	37		37		39		41		42		51		52		56		60		75		89		99	
Elbow 90Deg F/F	17		19.5		24		29		32		37		44		48		55.5		67		77		96	
Elbow 90Deg M/F	18	26	21	29	24	36	27	41	33	47	37	53	44	63	47	69	59	80	66	105	77	113	98	130
Elbow 45Deg F/F	16		17		19		21		24		28		33		36		42		49		54		65	
Tee F/F	18		19.5		23		29		32.5		37		45		48		56.5		68		79		97	
Hexagon Cap	16		20		21		22.5		23		26		29		32		35		42		46		55	
Hexagon Plug	17		18		23.5		28		28		34		35		36		37.5		40		45		51	
Lock Nut	8.5		8.5		9		9		10		11		12		13		13.5		18		21		22	
Hose Tail			46.5		51.5		62.5		72.5		82		80		93		110		136		147		158	
Hex Reducing Bush			22.5		23		25.5		26.5		33.5		34		36		36		49		50		51	
Hex Reducing Nipple			31.5		35		39		42		46		52		53		58		65		73		83	
Reducing Socket			28.5		41		45		45		50		50		57		67		76		85		96	

150LB BSP THREADED FITTINGS - TECHNICAL DATA

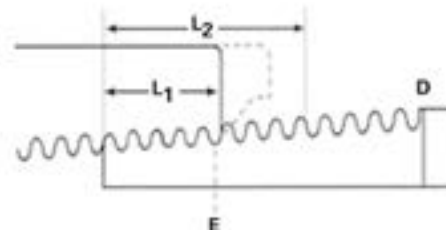
BRITISH STANDARD THREADS (BSP)

Taper 1 in 16 on diagram (Shown exaggerated in diagram)



Taper

$$\begin{aligned} H &= 0.960237xp \\ h &= 0.610327xp \\ r &= 0.127278xp \end{aligned}$$



NOMINAL BORE OF PIPE		OUTSIDE DIAMETER OF S.S. PIPE	NUMBER OF THREADS PER INCH	PITCH	DEPTH OF THREAD	DIAMETER AT GAUGE PLANE (GAUGE DIA.)	DISTANCE OF GAUGE DIA. (GAUGE LENGTH)	LENGTH OF USEFUL THREAD
NB	Inch	D			h	E	L ₁	L ₂
6	1/8	0.405	28	0.03571	0.0229	0.383	0.1563	0.2545
8	1/4	0.540	19	0.05263	0.0337	0.518	0.2367	0.3314
10	3/8	0.675	19	0.05263	0.0337	0.656	0.2500	0.3947
15	1/2	0.840	14	0.07143	0.0457	0.825	0.3214	0.5178
20	3/4	1.050	14	0.07143	0.0457	1.041	0.3750	0.5714
25	1	1.315	11	0.09091	0.0582	1.309	0.4091	0.6591
32	1 1/4	1.660	11	0.09091	0.0582	1.650	0.5000	0.7500
40	1 1/2	1.900	11	0.09091	0.0582	1.882	0.5000	0.7500
50	2	2.375	11	0.09091	0.0582	2.347	0.6250	0.9204
65	2 1/2	2.875	11	0.09091	0.0582	2.950	0.6875	1.0511
80	3	3.500	11	0.09091	0.0582	3.460	0.8125	1.1761
100	4	4.500	11	0.09091	0.0582	4.450	1.0000	1.4091
125	5	5.563	11	0.09091	0.0582	5.40	1.1250	1.5795
150	6	6.625	11	0.09091	0.0582	6.450	1.1250	1.5795

3000LB FITTINGS

SPECIFICATIONS: ASTM A182/ANSI B16/11
NPT THREAD

GRADE: 316

PRESSURE: 3000LB (ICPA)



Inch	mm	FULL COUPLING	HALF COUPLING	UNION 3 PCE	90° ELBOW FEMALE	45° ELBOW FEMALE	TEE FEMALE	HEX NIPPLE	HEX PLUG
1/8	6	★	☆	★	☆	☆	☆	★	★
1/4	8	★	☆	★	★	☆	★	★	★
3/8	10	★	☆	★	★	☆	★	★	★
1/2	15	★	☆	★	★	☆	★	★	★
3/4	20	★	☆	★	★	☆	★	★	★
1	25	★	☆	★	★	☆	★	★	★
1 1/4	32	★	☆	★	★	☆	★	★	★
1 1/2	40	★	☆	★	★	☆	★	★	★
2	50	★	☆	★	★	☆	★	★	★



SIZE - NOMINAL		HEX REDUCING BUSH	HEX REDUCING NIPPLE
Inch	mm		
1/4 x 1/8	8 x 6	★	★
3/8 x 1/8	10 x 6	★	★
3/8 x 1/4	10 x 8	★	★
1/2 x 1/4	15 x 8	★	★
1/2 x 3/8	15 x 10	★	★
3/4 x 1/2	20 x 15	★	★
1 x 1/4	25 x 8	★	★
1 x 1/2	25 x 15	★	★
1 x 3/4	25 x 20	★	★
1 1/4 x 3/4	32 x 20	★	★
1 1/4 x 1	32 x 25	★	★
1 1/2 x 3/4	40 x 20	★	★
1 1/2 x 1	40 x 25	★	★
2 x 3/4	50 x 20	★	★
2 x 1	50 x 25	★	★
2 x 1 1/2	50 x 40	★	★

SPECIFICATIONS: ASTM A182/ANSI B16/11
3000LB SOCKETWELD

GRADE: 316

PRESSURE: 3000LB (ICPA)

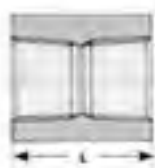


SCHEDULE - NOMINAL	FULL COUPLING	HALF COUPLING	UNION 3 PCE	90° ELBOW FEMALE	45° ELBOW FEMALE	EQUAL TEE FEMALE	CAP
Inch	mm						
1/4	8	☆	☆	☆	☆	☆	☆
3/8	10	☆	☆	☆	☆	☆	☆
1/2	15	☆	☆	☆	☆	☆	☆
3/4	20	☆	☆	☆	☆	☆	☆
1	25	☆	☆	☆	☆	☆	☆
1 1/4	32	☆	☆	☆	☆	☆	☆
1 1/2	40	☆	☆	☆	☆	☆	☆
2	50	☆	☆	☆	☆	☆	☆

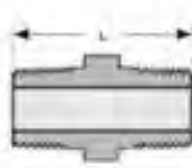
3000LB THREADED FITTINGS - TECHNICAL DATA



FULL COUPLING



HALF COUPLING



HEXAGON NIPPLE



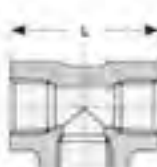
UNION 3 PCE F/F



ELBOW 90 DEG F/F



ELBOW 45 DEG F/F



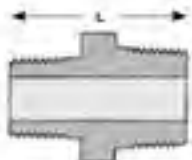
TEE F/F



HEXAGON PLUG



HEX REDUCING BUSH



HEX REDUCING NIPPLE

3000LB NPT THREADED FITTINGS
TECHNICAL DATA

SIZE mm	6	8	10	15	20	25	32	40	50
LENGTH mm	L	L	L	L	L	L	L	L	L
FITTING									
Full Coupling	32	35	38	48	51	60	67	79	86
Half Coupling	16	17.5	19	24	25.5	30	33.5	39.5	43
Hexagon Nipple	26	36	36	47	48	59	60	62	68
Union 3 Pce F/F	41.4	41.4	46	49	56.9	62	71.1	76.5	86.1
Elbow 90 Deg F/F	21	25	28	33	38	44	51	60	64
Elbow 45 Deg F/F	17	19	22	25	28	33	35	43	44
Tee F/F	21	25	28	33	38	44	51	60	64
Hexagon Plug	16	17	21	22	26	29	31	37	38
Hex Reducing Bush		14	17	19	22	25	28	29	31
Hex Reducing Nipple			19	24	30	35	46	50	65

PIPE THREAD DIMENSIONS - TECHNICAL DATA

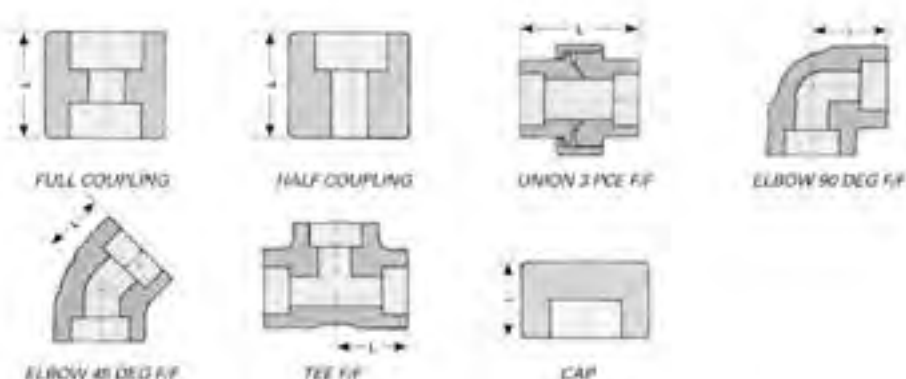
AMERICAN STANDARD THREADS (NPT)



Straight Pipe Threads: the pitch, angle and depth of thread are the same as the corresponding dimensions of the taper threads

NOMINAL BORE OF PIPE		OUTSIDE DIAMETER OF S.S. PIPE	NUMBER OF THREADS PER INCH	PITCH	HAND TIGHT	EFFECTIVE ENGAGEMENT EXTERNAL	THREAD LENGTH THREAD	DEPTH
NB	Inch	D	n	P	L ₁	E ₁	L ₂	h
6	1/8	0.405	27	0.03704	0.180	0.37476	0.2639	0.02963
8	1/4	0.540	18	0.05556	0.200	0.48989	0.4018	0.04444
10	3/8	0.675	18	0.05556	0.240	0.62701	0.4078	0.04444
15	1/2	0.840	14	0.07143	0.230	0.77843	0.5337	0.05714
20	3/4	1.050	14	0.07143	0.339	0.98887	0.5457	0.05714
25	1	1.315	11 1/2	0.08696	0.400	1.23863	0.6828	0.06957
32	1 1/4	1.660	11 1/2	0.08696	0.420	1.56338	0.7068	0.06957
40	1 1/2	1.900	11 1/2	0.08696	0.420	1.82234	0.7235	0.06957
50	2	2.375	11 1/2	0.08696	0.436	2.29627	0.7665	0.06957
65	2 1/2	2.875	8	0.12500	0.682	2.76216	1.1375	0.10000
80	3	3.500	8	0.12500	0.766	3.38850	1.2000	0.10000
90	3 1/2	4.000	8	0.12500	0.821	3.88881	1.2500	0.10000
100	4	4.500	8	0.12500	0.844	4.38712	1.3000	0.10000
125	5	5.563	8	0.12500	0.937	5.44929	1.4063	0.10000
150	6	6.625	8	0.12500	0.958	6.50597	1.5121	0.10000

TECHNICAL DATA SOCKET WELD FITTINGS



SIZE mm	6	8	10	15	20	25	32	40	50
LENGTH mm	L	L	L	L	L	L	L	L	L
FITTING									
Full Coupling	25.4	25.4	28.7	35	38.1	44.5	47.8	50.8	63.5
Half Coupling	25.4	25.4	28.7	35	38.1	44.5	47.8	50.8	63.5
Union 3 Pce F/F	41.4	41.4	46	49.3	57.2	63.5	71.4	76.2	85.9
Elbow 90 Deg F/F	20.6	20.6	24.7	28.7	33.3	38.1	44.5	50.8	60.5
Elbow 45 Deg F/F	17.5	17.5	19	22.4	25.4	28.7	33.3	35	42.4
Tee F/F	20.6	20.6	24.7	28.7	33.3	38.1	44.5	50.8	60.5
Cap	17.5	17.5	19	22.4	24.4	27	30.3	31.8	38.1

FORGED FLANGES

SPECIFICATIONS:

ASTM A182 ANSI B16.5
RAISED FACE FLANGES

TYPE:

SLIP ON RFSO
WELD NECK RFWN SCH10,40 & 80
BLIND RFB

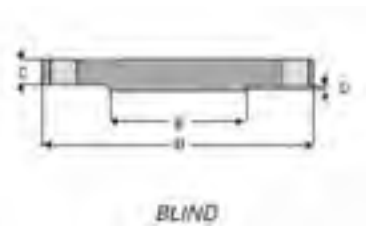
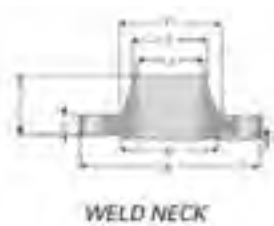
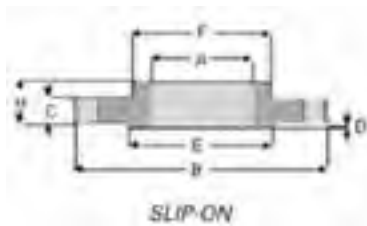
CLASS:

150LB, 300LB, 600LB



GRADE	SIZE N.B.	SLIP ON RAISED FACE			WELD NECK RAISED FACE			BLIND RAISED FACE		
		150lb	300lb	600lb	150lb	300lb	600lb	150lb	300lb	600lb
304L	mm									
	15	★	☆	☆	☆	☆	☆	☆	☆	☆
	20	★	☆	☆	☆	☆	☆	★	☆	☆
	25	★	★	☆	★	★	☆	★	☆	☆
	32	★	☆	☆	★	☆	☆	★	☆	☆
	40	★	★	☆	★	☆	☆	★	★	☆
	50	★	★	☆	★	★	☆	★	★	☆
	65	★	☆	☆	★	☆	☆	★	☆	☆
	80	★	★	☆	★	★	☆	★	★	☆
	100	★	★	☆	★	★	☆	★	★	☆
316L	150	★	★	☆	★	★	☆	★	★	☆
	200	★	☆	☆	★	★	☆	★	☆	☆
	250	★	☆	☆	☆	☆	☆	☆	☆	☆
	300	☆	☆	☆	☆	☆	☆	☆	☆	☆
	15	★	☆	☆	☆	☆	☆	★	☆	☆
	20	★	☆	☆	★	☆	☆	★	☆	☆
	25	★	★	☆	★	★	☆	★	★	☆
	32	★	★	☆	★	☆	☆	★	★	☆
	40	★	★	☆	★	★	☆	★	★	☆
	50	★	★	☆	★	★	☆	★	★	☆
	65	★	★	☆	★	★	☆	★	★	☆
	80	★	★	☆	★	★	☆	★	★	☆
	100	★	★	☆	★	★	☆	★	★	☆
	125	★	☆	☆	★	☆	☆	★	☆	☆
	150	★	★	☆	★	★	☆	★	★	☆
	200	★	★	☆	★	☆	☆	★	☆	☆
	250	★	☆	☆	★	☆	☆	★	☆	☆
	300	★	☆	☆	☆	☆	☆	★	☆	☆
	350	★	☆	☆	☆	☆	☆	★	☆	☆
	400	★	☆	☆	☆	☆	☆	★	☆	☆
	450	☆	☆	☆	☆	☆	☆	☆	☆	☆
	500	★	☆	☆	☆	☆	☆	☆	☆	☆
	600	★	☆	☆	☆	☆	☆	☆	☆	☆

FORGED FLANGE DIMENSIONS - TECHNICAL DATA



BOLT	SIZE	OUTSIDE DIA. OF PIPE	OUTSIDE DIA. MIN.	THICK. MIN.	RAISED FACE THICK.	RAISED FACE DIA.	HUB DIA.	HUB DIA. BEGIN OF CHAMFER	LENGTH/HUB SLIP-ON W.NECK	BOLT CIRCLE DIA.	BOLT HOLE DIA.	# HOLES		
	mm	A	B	C	D	E	F	G	H	J	K	L	M	
150lb	15	21.3	90	11.5	1.6	34.9	30	21.5	16	48	60.5	16	4	
	20	26.9	98	13	1.6	42.9	38	26.5	16	52	70	16	4	
	25	33.7	108	14.5	1.6	50.8	49	34.5	17	56	79.5	16	4	
	32	42.2	117	16	1.6	63.5	59	43	21	57	89	16	4	
	40	48.3	127	17.5	1.6	73	65	48.5	22	62	98.5	16	4	
	50	60.3	152	19.5	1.6	92.1	78	62	25	64	120.5	20	4	
	65	73	178	25	1.6	104.8	90	74.7	29	70	139.5	20	4	
	80	88.9	191	25	1.6	127	108	91	30	70	152.5	20	4	
	100	114.3	229	25	1.6	157.2	135	116	32	76	190.5	20	8	
	150	168.3	279	25.5	1.6	215.9	192	178	40	89	241.5	23	8	
	200	219.1	343	29	1.6	269.9	246	229	44	102	298.5	23	8	
	250	273	406	30.5	1.6	323.8	305	276	49	102	362	26	12	
	300	323.9	483	32.0	1.6	381.0	365	324.0	56	114	432.0	26	12	
	350	355.6	535	35.0	1.6	412.8	400	355.5	57	127	476.5	29	12	
	400	406.4	600	37.0	1.6	469.9	457	406.5	64	127	540.0	29	16	
	450	457.2	635	40.0	1.6	533.4	505	457.0	68	140	578.0	32	16	
	500	508.0	700	43.0	1.6	584.2	559	508.0	73	145	635.0	32	20	
	600	600.6	815	48	1.6	692.2	664	609.5	83	152	749.5	35	20	
	300lb	15	21.3	95	14.5	1.6	34.9	38	21.5	22	52	66.5	16	4
		20	26.9	117	16	1.6	42.9	48	26.5	25	57	82.5	20	4
25		33.7	124	17.5	1.6	50.8	54	33.5	27	62	89	20	4	
32		42.2	133	19.5	1.6	63.5	64	42	27	65	98.5	20	4	
40		48.3	156	21	1.6	73	70	48.5	30	68	114.5	23	4	
50		60.3	165	22.5	1.6	92.1	84	60.5	33	70	127	20	8	
65		73	191	25	1.6	104.8	100	73	38	76	149	23	8	
80		88.9	210	29	1.6	127	118	89	43	79	168.5	23	8	
100		114.3	254	30	1.6	157.2	146	114.5	48	86	200	23	8	
150		168.3	318	37	1.6	215.9	206	168.5	52	98	270	23	12	
	200	219.1	381	41.5	1.6	269.9	260	219	62	111	330	26	12	
	250	273	445	48	1.6	323.8	321	273	67	117	387.5	29	16	
	300	323.9	520	51.0	1.6	381.0	375	324.0	73	130	451.0	32	16	
	350	355.6	585	54.0	1.6	412.8	426	355.5	76	143	514.5	32	20	
	400	406.4	650	57.5	1.6	469.9	483	406.5	83	146	571.5	35	20	
	450	457.2	710	60.5	1.6	533.4	533	457.0	89	159	628.5	35	24	
	500	508.0	775	63.5	1.6	584.2	587	508.0	95	162	686.0	35	24	
	600	609.6	915	70.0	1.6	692.2	702	609.5	106	168	813.0	42	24	

PLATE FLANGES

SPECIFICATIONS:	AS2129 TABLE FLANGES	
TYPE:	SLIP-ON WELD BLIND	SOW BL
CLASS:	TABLE D, E, F & H	



GRADE	SIZE N.B. mm	TABLE D		TABLE E		TABLE F		TABLE H	
		SLIP-ON	BLIND	SLIP-ON	BLIND	SLIP-ON	BLIND	SLIP-ON	BLIND
304L	15			★	★	☆	☆	★	☆
	20			★	★	☆	☆	★	☆
	25			★	★	★	☆	★	☆
	32			★	★	★	☆	★	☆
	40	★	★	★	★	★	☆	★	☆
	50	★	★	★	★	★	☆	★	☆
	65	★	★	★	★	★	☆	★	☆
	80	★	★	★	★	★	☆	★	☆
	100	★	★	★	★	☆	★	★	☆
	125	★	★	★	★	☆	☆	☆	☆
	150	★	★	★	★	★	☆	★	☆
	200	★	★	★	★	☆	☆	☆	☆
	250	★	★	★	★	☆	☆	☆	☆
	300	★	★	★	★	☆	☆	☆	☆
	350	★	☆	★	☆	☆	☆	☆	☆
	400	★	☆	★	★	☆	☆	☆	☆
	450	☆	☆	☆	★	☆	☆	☆	☆
	500	☆	☆	☆	☆	☆	☆	☆	☆
316L	600	☆	☆	☆	☆	☆	☆	☆	☆
	15			★	★	★	☆	★	☆
	20			★	★	★	☆	★	☆
	25			★	★	☆	☆	★	☆
	32			★	★	★	☆	★	☆
	40	★	★	★	★	☆	☆	★	☆
	50	★	★	★	★	★	☆	★	☆
	65	★	★	★	★	★	☆	★	☆
	80	★	★	★	★	★	☆	★	☆
	100	★	★	★	★	★	☆	★	☆
	125	★	★	★	★	☆	☆	☆	☆
	150	★	★	★	★	☆	☆	★	☆
	200	★	★	★	★	☆	☆	★	☆
	250	★	★	★	★	☆	☆	☆	☆
	300	★	★	★	★	☆	☆	☆	☆
	350	★	★	★	★	☆	☆	☆	☆
	400	★	★	★	★	☆	☆	☆	☆
	450	★	☆	★	☆	☆	☆	☆	☆
	500	★	★	★	★	☆	☆	☆	☆
	600	★	☆	★	☆	☆	☆	☆	☆

PLATE FLANGE DIMENSIONS - TECHNICAL DATA

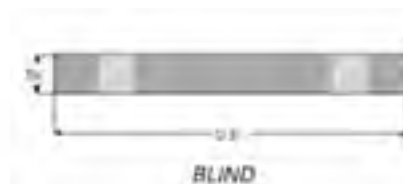
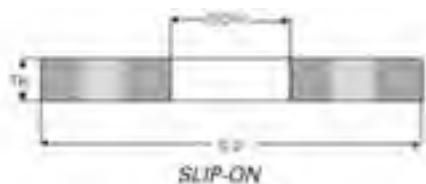


TABLE D

SIZE	SLIP ON BORE	OUTER DIA.	THICKNESS	BOLT CIRCLE DIA.	# OF HOLES	DIA. OF HOLES
mm	SOW	OD	TK	PCD		
15	22.3	95	5	67	4	14
20	27.6	100	5	73	4	14
25	34.5	115	5	83	4	14
32	43.1	120	6	87	4	14
40	49.5	135	6	98	4	14
50	61.9	150	8	114	4	18
65	74.6	165	8	127	4	18
80	90.6	185	10	146	4	18
90	103.3	205	10	165	4	18
100	116	215	10	178	4	18
125	143.7	255	13	210	8	18
150	170.6	280	13	235	8	18
200	221.4	335	13	292	8	18
250	276.3	405	16	356	8	22
300	327.1	455	19	406	12	22
350	359.1	525	22	470	12	26
375	381	550	22	495	12	26
400	410.4	580	22	521	12	26
450	461.7	640	25	584	12	26
500	513	705	29	641	16	26
550	564.3	760	29	699	16	30
600	615.9	825	32	756	16	30
700	717.5	910	38	845	20	30
750	768.3	995	38	927	20	33
800	819.1	1060	38	984	20	36
850	869.9	1090	50	1016	20	36
900	920.7	1175	50	1092	24	36

TABLE E

SIZE	SLIP ON BORE	OUTER DIA.	THICKNESS	BOLT CIRCLE DIA.	# OF HOLES	DIA. OF HOLES
mm	SOW	OD	TK	PCD		
15	22.3	95	6	67	4	14
20	27.6	100	6	73	4	14
25	34.5	115	7	83	4	14
32	43.1	120	8	87	4	14
40	49.5	135	9	98	4	14
50	61.9	150	10	114	4	18
65	74.6	165	10	127	4	18
80	90.6	185	11	146	4	18
90	103.3	205	13	165	8	18
100	116	215	13	178	8	18
125	143.7	255	14	210	8	18
150	170.6	280	17	235	8	22
200	221.4	335	19	292	8	22
250	276.3	405	22	356	12	22
300	327.1	455	25	406	12	26
350	359.1	525	29	470	12	26
375	410.4	550	32	495	12	26
400	410.4	580	32	521	12	26
450	461.7	640	35	584	16	26
500	513	705	38	641	16	26
550	564.3	760	44	699	16	30
600	615.9	825	48	756	16	33
700	717.5	910	54	845	20	33
750	768.3	995	54	927	20	36
800	819.1	1060	54	984	20	36
850	869.9	1090	57	1016	20	36
900	920.7	1175	64	1092	24	36

PLATE FLANGE DIMENSIONS - TECHNICAL DATA

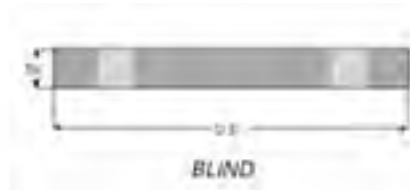
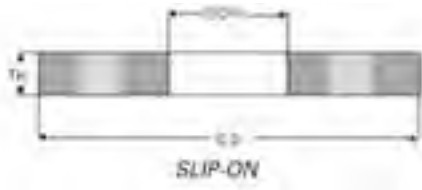


TABLE F

SIZE	SLIP ON BORE	OUTER DIA.	THICKNESS	BOLT CIRCLE DIA.	# OF HOLES	DIA. OF HOLES
mm	SOW	OD	TK	PCD		
15	22.3	95	10	67	4	14
20	27.6	100	10	73	4	14
25	34.5	120	10	87	4	18
32	43.1	135	13	98	4	18
40	49.5	140	13	105	4	18
50	61.9	165	16	127	4	18
65	74.6	185	16	146	8	18
80	90.6	205	16	165	8	18
90	103.3	215	19	178	8	18
100	116	230	19	191	8	18
125	143.7	280	22	235	8	22
150	170.6	305	22	260	12	22
200	221.4	370	25	324	12	22
250	276.3	430	29	381	12	26
300	327.1	490	32	438	16	26
350	359.1	550	35	495	16	30
375	410.4	580	38	521	16	30
400	410.4	610	41	552	20	30
450	461.7	675	44	610	20	33
500	513	735	51	673	24	33
550	564.3	785	54	724	24	33
600	615.9	850	57	781	24	36
700	717.5	935	60	857	24	36
750	768.3	1015	67	940	28	36
800	819.1	1060	68	984	28	36
850	869.9	1090	70	1016	32	36
900	920.7	1185	76	1105	32	39

TABLE H

SIZE	SLIP ON BORE	OUTER DIA.	THICKNESS	BOLT CIRCLE DIA.	# OF HOLES	DIA. OF HOLES
mm	SOW	OD	TK	PCD		
15	22.3	115	13	83	4	18
20	27.6	115	13	83	4	18
25	34.5	120	14	87	4	18
32	43.1	135	17	98	4	18
40	49.5	140	17	105	4	18
50	61.9	165	19	127	4	18
65	74.6	185	19	146	8	18
80	90.6	205	22	165	8	18
90	103.3	215	22	178	8	18
100	116	230	25	191	8	18
125	143.7	280	29	235	8	22
150	170.6	305	29	260	12	22
200	221.4	370	32	324	12	22
250	276.3	430	35	381	12	26
300	327.1	490	41	438	16	26
350	359.1	550	48	495	16	30
375	410.4	580	50	521	16	30
400	410.4	610	54	552	20	30
450	461.7	675	60	610	20	33
500	513	735	67	673	24	33
550	564.3	785	70	724	24	33
600	615.9	850	76	781	24	36

WELDED ROUND TUBE

SPECIFICATIONS: ASTM A554
ASTM A269
AS1528

LENGTHS: 6 METRES

FINISH: MILL FINISH W
POLISHED 320 GRIT P
POLISHED MIDWAY MIRROR M
ANNEALED POLISHED 600 GRIT PA
FOOD POLISHED 320 GRIT F



SIZE mm		T304					T316				
OD	WT	W	P	M	PA	F	W	P	M	F	PA
6.35	0.7	☆	☆		☆						
6.35	0.9	☆	☆		☆						★
7.94	0.9	☆	☆		☆						
9.53	0.9	☆	★		☆						
9.53	1.2	☆	★		☆		☆	☆			★
9.53	1.6	☆	★		★		☆	★	★		☆
12.7	1.2	☆	★		☆		☆	☆			★
12.7	1.6	☆	★		☆		☆	★	★		★
15.9	1.2	☆	★		☆		☆	☆			☆
15.9	1.6	☆	★		☆		☆	★	★		★
19.05	0.9	☆	★		☆						
19.05	1.2		★		☆		☆	☆	★		☆
19.05	1.6	☆	★		☆		☆	★	★		★
22.2	1.2	☆	☆		☆		☆	☆	★		☆
22.2	1.6	☆	★		☆		☆	★	★		★
25.4	0.9	☆	★		☆		☆	☆	☆		☆
25.4	1.2	☆	★		☆		☆	☆	★		☆
25.4	1.6	☆	★		☆	★	☆	★	★	★	★
28.6	1.2	☆	☆		☆		☆	☆	★		
28.6	1.6	☆	☆		☆		☆	☆	☆		
31.8	1.2	☆	★		☆	★	☆	☆	★		☆
31.8	1.6	☆	★		☆	★	☆	★	★	★	★
31.8	3.0								★		
38.1	1.2	☆	★		☆	★	☆	☆	☆		☆
38.1	1.6	☆	★		★	★	★	★	★	★	★
38.1	3.0			☆					★		
41.28	1.6								★		
44.4	1.2	☆	☆		☆						
44.4	1.6	☆	★	★	☆	☆	☆	☆	★		☆
50.8	1.2	☆	★		☆	★	☆	☆			☆
50.8	1.6	☆	★		★	★	★	★	★	★	★
50.8	2.0	☆	☆					★	☆		
50.8	3.0			★					★		
57.15	1.6							★			
63.5	1.2	☆	☆		★						
63.5	1.6	☆	★		☆	★	☆	★	★	★	☆
63.5	2.0							★			
63.5	3.0								★		
76.2	1.6	☆	★		★	★	★	★	★	★	☆
76.2	2.0	☆	☆					★	☆		
88.9	1.6	☆	★		☆		☆	★			☆
101.6	1.6	☆	★		☆	★	★	★		★	☆
101.6	2.0										
127	1.6	☆	★				★	★			☆
152.4	1.6	★	★			★	★	★		★	
152.4	2.0		☆			☆		★		★	
203.2	2.0	★	★			★	★	★		★	
254	2.0	★				★	★			★	

ARCHITECTURAL TUBE

SPECIFICATIONS:	ASTM A554	
LENGTH:	6 METRES	
FINISH:	POLISHED MIRROR	M
	POLISHED 400 grit	P

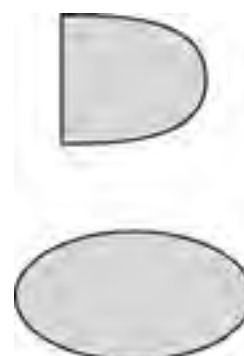
SLOTTED HAND RAIL

SIZE	T304	T316	
mm		P	M
50.8 x 1.5 - Single Slot	☆	★	★
63.5 x 1.5 - Single Slot	☆	★	★
76.2 x 1.5 - Single Slot	☆	★	★
50.8 x 1.5 - Double Slot	☆	★	★
50.8 x 1.5 - 90 Degree Slot	☆	★	★



OVAL / D TUBE

SIZE	T304	T316
mm	M	M
32 x 63 x 1.5mm - 'D'	☆	☆
23 x 38 x 1.5mm - Oval	☆	★
26 x 48 x 1.5mm - Oval	☆	★
38 x 62 x 1.5mm - Oval	☆	★
42 x 75 x 1.5mm - Oval	☆	★



TRIANGULAR TUBE

SIZE	T304	T316
mm	M	M
37 x 25 x 1.5mm	☆	★



RIGI TUBE - DEC N9 PATTERN

SIZE	T304	T316
mm	P	P
31.8 x 1.2 - Reverse Pattern	☆	☆
31.8 x 1.5 - Standard Pattern	☆	☆



WELDED SQUARE & RECTANGLE TUBE

SPECIFICATIONS: ASTM A554

LENGTH: 6 METRES

FINISH: POLISHED 180 HAIRLINE SBP
POLISHED 400 grit 400

SQUARE TUBE

SIZE	T304	T316	
mm	SBP	SBP	400
12.7 x 12.7 x .9	☆		
12.7 x 12.7 x 1.2	★	☆	
19 x 19 x 1.2	★	☆	
19 x 19 x 1.6	★	★	★
22.2 x 22.2 x 1.2	★	☆	
22.2 x 22.2 x 1.6	☆	☆	
25.4 x 25.4 x 1.2	★	☆	
25.4 x 25.4 x 1.6	★	★	★
31.8 x 31.8 x 1.2	★	☆	
31.8 x 31.8 x 1.6	★	★	★
38.1 x 38.1 x 1.2	★	☆	
38.1 x 38.1 x 1.6	★	★	★
50.8 x 50.8 x 1.2	★	☆	
50.8 x 50.8 x 1.6	★	★	★

SIZE	T304	T316	
mm	SBP	SBP	400
25 x 25 x 2	★	☆	☆
25 x 25 x 3	★	☆	☆
32 x 32 x 2	★	☆	☆
32 x 32 x 3	★	☆	☆
38 x 38 x 2	★	☆	
38 x 38 x 3	★	★	★
50 x 50 x 2	★	☆	
50 x 50 x 3	★	★	★
60 x 60 x 3	★	☆	☆
80 x 80 x 2	★	☆	
80 x 80 x 3	★	★	☆
80 x 80 x 5	★	★	☆
100 x 100 x 3	★	★	☆
100 x 100 x 5	★	★	☆
150 x 150 x 5	★	★	☆
150 x 150 x 3	★	☆	☆

RECTANGLE TUBE

SIZE	T304	T316	
mm	SBP	SBP	400
38.1 x 25.4 x 1.6	☆	☆	
50.8 x 25.4 x 1.2	★	☆	
50.8 x 25.4 x 1.6	★	★	★
80 x 40 x 1.6	★	☆	☆

SIZE	T304	T316	
mm	SBP	SBP	400
50 x 10 x 2	★		★
50 x 25 x 3	★	★	★
60 x 40 x 3	★	★	
80 x 40 x 3	★	★	☆
100 x 50 x 2	★	☆	
100 x 50 x 3	★	★	☆
100 x 50 x 5	★	★	☆
150 x 50 x 6	☆	☆	★
150 x 75 x 5	★	☆	☆
150 x 100 x 5	★	★	☆
150 x 100 x 6	☆	☆	★
200 x 100 x 5	★	☆	☆
200 x 100 x 6	☆	☆	☆



TUBE FITTINGS

SPECIFICATIONS:

AUSTRALIAN STANDARD 1528
PART 3 - 1975
BENDS CLR 1.50

FINISH:

BENDS UNPOLISHED & POLISHED
OTHERS POLISHED



SIZE		THICK	90° BEND		45° BEND		180° BEND	EQUAL TEE		Y PIECE	CAP	CROSS
Inch	mm	mm	304	316	304	316	316	304	316	316	316	316
1/2	12.7	1.6		★		★			★			
5/8	15.88	1.6		★								
3/4	19.05	1.6	★	★		★	☆		★		★	
1	25.4	1.6	★	★	★	★	★	★	★	☆	★	☆
1 1/4	31.8	1.6	★	★		★	★	★	★	☆	★	☆
1 1/2	38.1	1.6	★	★	★	★	★	★	★	☆	★	★
1 3/4	44.45	1.6		★								
2	50.8	1.6	★	★	★	★	★	★	★	★	★	★
2 1/2	63.5	1.6	★	★	★	★	★	★	★	☆	★	☆
3	76.2	1.6	★	★	★	★	★	★	★	★	★	★
3 1/2	88.9	1.6		★								
4	101.6	1.6	★	★	★	★	★	★	★	☆	★	☆
5	127	1.6	★	★	☆	★	☆	★	★	☆	☆	☆
6	152.4	1.6	★	★	☆	★	☆	★	★	☆	★	☆
8	203.2	1.6	☆	☆	☆	☆	☆	☆	☆		★	
10	254	1.6	☆	☆	☆	☆	☆		☆			
12	305	1.6	☆	☆	☆	☆	☆		☆			
4	101.6	2		★					☆			
5	127	2	★	★					☆			
6	152.4	2	★	★	★	★			☆			
8	203.2	2	★	★					☆			
10	254	2	★	★					☆			
12	305	2	★	★					☆			

REDUCING TUBE FITTINGS

SPECIFICATIONS: AUSTRALIAN STANDARD 1528
PART 3 - 1975

FINISH: POLISHED

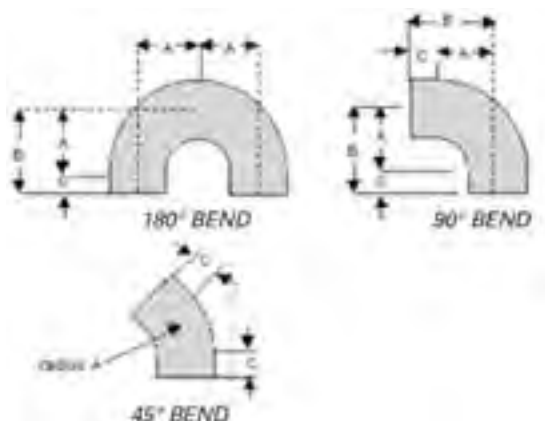


OD		TK	CONCENTRIC REDUCER	ECCENTRIC REDUCER	REDUCING TEE
mm	Inch	mm			
19.1 x 12.7	3/4 x 1/2	1.6	★	☆	☆
25.4 x 12.7	1 x 1/2	1.6	★	☆	★
25.4 x 19.1	1 x 3/4	1.6	★	★	★
31.8 x 19.1	1 1/4 x 3/4	1.6	★	☆	☆
31.8 x 25.4	1 1/4 x 1	1.6	★	☆	☆
38.1 x 12.7	1 3/4 x 1/2	1.6	★	☆	☆
38.1 x 19.1	1 1/2 x 3/4	1.6	★	☆	☆
38.1 x 25.4	1 1/2 x 1	1.6	★	★	★
38.1 x 31.8	1 1/2 x 1 1/4	1.6	★	★	☆
50.8 x 12.7	2 x 1/2	1.6	★	☆	☆
50.8 x 19.1	2 x 3/4	1.6	★	★	★
50.8 x 25.4	2 x 1	1.6	★	★	★
50.8 x 31.8	2 x 1 1/4	1.6	★	★	★
50.8 x 38.1	2 x 1 1/2	1.6	★	★	★
63.5 x 19.1	2 1/2 x 3/4	1.6	☆	☆	☆
63.5 x 25.4	2 1/2 x 1	1.6	★	★	★
63.5 x 31.8	2 1/2 x 1 1/4	1.6	★	★	☆
63.5 x 38.1	2 1/2 x 1 1/2	1.6	★	★	☆
63.5 x 50.8	2 1/2 x 2	1.6	★	★	★
76.2 x 19.1	3 x 3/4	1.6	☆	☆	☆
76.2 x 25.4	3 x 1	1.6	★	★	★
76.2 x 31.8	3 x 1 1/4	1.6	★	☆	☆
76.2 x 38.1	3 x 1 1/2	1.6	★	★	☆
76.2 x 50.8	3 x 2	1.6	★	★	★
76.2 x 63.5	3 x 2 1/2	1.6	★	★	★
101.6 x 25.4	4 x 1	1.6	★	☆	☆
101.6 x 38.1	4 x 1 1/2	1.6	★	☆	☆
101.6 x 50.8	4 x 2	1.6	★	★	★
101.6 x 63.5	4 x 2 1/2	1.6	★	★	★
101.6 x 76.2	4 x 3	1.6	★	★	★
127 x 50.8	5 x 2	1.6	★	☆	☆
127 x 63.5	5 x 2 1/2	1.6	☆	★	☆
127 x 76.2	5 x 3	1.6	★	★	☆
127 x 101.6	5 x 4	1.6	★	★	☆
152.4 x 25.4	6 x 1	1.6	☆	☆	☆
152.4 x 50.8	6 x 2	1.6	★	★	☆
152.4 x 63.5	6 x 2 1/2	1.6	★	★	☆
152.4 x 76.2	6 x 3	1.6	★	★	☆
152.4 x 101.6	6 x 4	1.6	★	★	☆
152.4 x 127	6 x 5	1.6	★	★	☆
203.2 x 101.6	8 x 4	1.6	★	★	☆
203.2 x 127	8 x 5	1.6	★	☆	☆
203.2 x 152.4	8 x 6	1.6	★	☆	☆

TUBE FITTING DIMENSIONS - TECHNICAL DATA

CENTRE-TO-FACE DIMENSIONS OF 45°, 90° & 180° TUBE BENDS

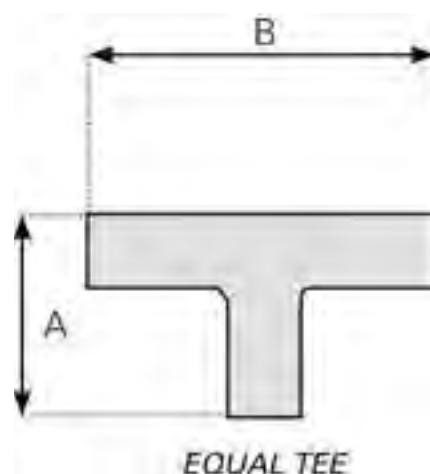
NOMINAL SIZE	CENTRE-TO-FACE DIMENSIONS			
	A	B	C	WALL
mm	mm	mm	mm	mm
12.7	19.1	49.1	30	1.6
19.1	28.6	58.6	30	1.6
25.4	38.1	68.1	30	1.6 / 2
31.8	47.7	77.7	30	1.6 / 2
38.1	57	87	30	1.6 / 2
50.8	76.2	106.2	30	1.6 / 2
63.5	95	125	30	1.6 / 2
76.2	114.2	144.2	30	1.6 / 2
101.6	152.4	182.4	30	1.6 / 2
127	190.5	230.5	40	1.6 / 2
152.4	228.5	268.5	40	1.6 / 2
203.2	304.8	334.8	40	1.6 / 2



NOTE: C = The Straight End Extension

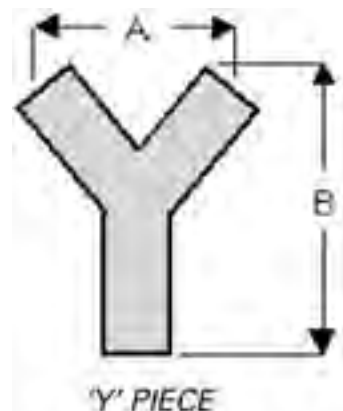
CENTRE-TO-FACE DIMENSIONS OF EQUAL TEES

NOMINAL SIZE	CENTRE-TO-FACE DIMENSIONS	
	A	B
mm	mm	mm
12.7	55.4	98.2
19.1	68.1	117.2
25.4	80.8	136.2
31.8	93.6	155.4
38.1	106	174
50.8	130.6	212.4
63.5	156.8	250
76.2	182.3	288.4
101.6	233.2	364.8
127	294	461
152.4	344.7	537



DIMENSIONS OF WELDED TYPE 'Y' PIECE

NOMINAL SIZE	CENTRE-TO-FACE DIMENSIONS	
	A	B
mm	mm	mm
25.4	88	72
31.8	110	90
38.1	132	108
50.8	176	143
63.5	220	179
76.2	264	215
101.6	352	287
127	359	440
152.4	430	529



TUBE FITTING DIMENSIONS - TECHNICAL DATA



CONCENTRIC REDUCER



ECCENTRIC REDUCER



REDUCING TEE

SIZE		TK	CONCENTRIC REDUCER		ECCENTRIC REDUCER		REDUCING TEE	
mm	Inch		A	B	A	B	A	B
19.1 X 12.7	3/4 x 1/2	1.6	20	20	20	22		
25.4 X 12.7	1 x 1/2	1.6	25	25	25	27		
25.4 X 19.1	1 x 3/4	1.6	25	25				
31.8 X 19.1	1 1/4 x 3/4	1.6	32	32				
31.8 X 25.4	1 1/4 x 1	1.6	32	32	32	34		
38.1 X 12.7	1 1/2 x 1/2	1.6	38	40	38	40		
38.1 X 19.1	1 1/2 x 3/4	1.6	38	38	38	40		
38.1 X 25.4	1 1/2 x 1	1.6	38	38	38	40	70	89
38.1 X 31.8	1 1/2 x 1 1/4	1.6	38	38	38	40		
50.8 X 12.7	2 x 1/2	1.6	51	54				
50.8 X 19.1	2 x 3/4	1.6	51	54	50	52		
50.8 X 25.4	2 x 1	1.6	51	52	50	53	83	90
50.8 X 31.8	2 x 1 1/4	1.6	51	52	50	53	93	120
50.8 X 38.1	2 x 1 1/2	1.6	51	52	50	53	100	131
63.5 X 19.1	2 1/2 x 3/4	1.6	63	65				
63.5 X 25.4	2 1/2 x 1	1.6	63	65	63	65		
63.5 X 31.8	2 1/2 x 1 1/4	1.6	63	65	63	65		
63.5 X 38.1	2 1/2 x 1 1/2	1.6	63	63	63	65	114	133
63.5 X 50.8	2 1/2 x 2	1.6	63	63	63	65	130	178
76.2 X 19.1	3 x 3/4	1.6	76	80			107	110
76.2 X 25.4	3 x 1	1.6	76	80	76	80	111	100
76.2 X 31.8	3 x 1 1/4	1.6	76	80				
76.2 X 38.1	3 x 1 1/2	1.6	76	76	76	80	125	133
76.2 X 50.8	3 x 2	1.6	76	76	76	80	140	178
76.2 X 63.5	3 x 2 1/2	1.6	76	76	76	81	159	229
101.6 X 25.4	4 x 1	1.6	102	107	101	110		
101.6 X 38.1	4 x 1 1/2	1.6	102	107	101	110	154	133
101.6 X 50.8	4 x 2	1.6	102	103	101	110	171	178
101.6 X 63.5	4 x 2 1/2	1.6	102	103	101	110	188	229
101.6 X 76.2	4 x 3	1.6	102	103	101	110	189	254
127 X 50.8	5 x 2	1.6	127	132	127	138		
127 X 63.5	5 x 2 1/2	1.6	127	132	127	138		
127 X 76.2	5 x 3	1.6	127	127	127	140	218	254
127 X 101.6	5 x 4	1.6	127	127	127	140	218	292
152.4 X 38.1	6 x 1 1/2	1.6	153	165				
152.4 X 50.8	6 x 2	1.6	153	161	152	162		
152.4 X 63.5	6 x 2 1/2	1.6	153	158	152	165		
152.4 X 76.2	6 x 3	1.6	153	158	152	162	244	254
152.4 X 101.6	6 x 4	1.6	153	153	152	162	252	300
152.4 X 127	6 x 5	1.6	153	153	152	162	385	380
203.2 X 101.6	8 x 4	1.6	205	208	205	215	304	300
203.2 X 127	8 x 5	1.6	205	212	205	215	330	380
203.2 X 152.4	8 x 6	1.6	205	205	205	215	348	440

HYGIENIC FITTINGS

SPECIFICATIONS: BSM/RJT Fittings to AS1528, Part 4 - 1976

BSM/RJT FITTINGS



SIZE mm	ROUND SLOTTED NUT	HEX. NUT	PLAIN LINER	MALE PART	O-RING EPDM	O-RING TEFLON	O-RING VITON	CIP SEAL	BLANK CAP	BLANK NUT	ALUM. SPANNER
25.4	★	★	★	★	★	☆	★	★	★	☆	★
38.1	★	★	★	★	★	☆	★	★	★	☆	★
50.8	★	★	★	★	★	☆	★	★	★	☆	★
63.5	★	★	★	★	★	☆	★	★	★	☆	★
76.2	★	★	★	★	★	☆	★	★	★	☆	★
101.6	★	★	★	★	★	☆	★	★	★	☆	★
127.0	☆	★	★	★	★	☆	★	★	★	☆	★
152.4	☆	★	★	★	★	☆	★	★	★	☆	★

HYGIENIC FLAT FACE FITTINGS



SIZE mm	HEX. NUT	FLAT FACE LINER	MALE PART LIP REMOVED	SEAL EPDM	SEAL TEFLON
12.7	★	★	★	★	☆
19.05	★	★	★	★	☆
25.4	★	★	★	★	☆
38.1	★	★	★	★	☆
50.8	★	★	★	★	☆
63.5	★	★	★	★	☆
76.2	★	★	★	★	☆
101.6	★	★	★	★	☆
127.0	☆	☆	☆	☆	☆
152.4	★	★	★	★	☆

TUBE CLAMPS



SIZE mm	PLAIN	BOSSSED	LONGTANG
19.05	★	★	
25.4	★	★	★
31.8	★	★	★
38.1	★	★	★
50.8	★	★	★
63.5	★	★	★
76.2	★	★	★
101.6	★	★	★
127.0	☆	☆	☆
152.4	★	★	★

SPECIFICATIONS: Triclover Fittings to AS1528, Part 2 - 1976

TRICLOVER FITTINGS

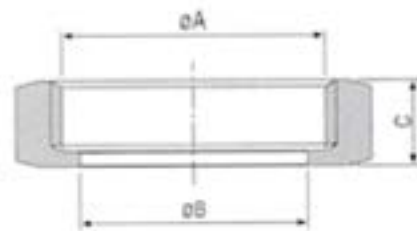


SIZE mm	CLAMP BODY	FERRULE LONG	BLANK CAP	SEAL EPDM	SEAL BUNA	SEAL TEFLON	SEAL VITON
19.05	★	★	★	★	☆	☆	☆
25.4	★	★	★	★	☆	☆	★
38.1	★	★	★	★	☆	☆	★
50.8	★	★	★	★	☆	☆	★
63.5	★	★	★	★	☆	☆	★
76.2	★	★	★	★	☆	☆	★
101.6	★	★	★	★	☆	☆	★
127.0	☆	☆	☆	☆	☆	☆	☆
152.4	★	★	★	★	☆	☆	★

HYGIENIC FITTINGS - TECHNICAL DATA

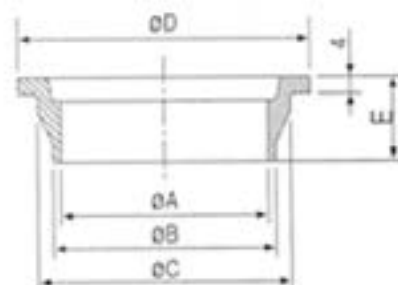
HEXAGONAL NUT

SIZE mm	A	B	C
25.4	42.266 x 8TPI WHIT	33.45	22.2
38.1	54.966 x 8TPI WHIT	46.0	22.2
50.8	67.920 x 6TPI WHIT	58.67	22.2
63.5	80.620 x 6TPI WHIT	71.4	22.2
76.2	93.320 x 6TPI WHIT	84.1	22.2
101.6	118.720 x 6TPI WHIT	109.7	22.2
127.0	144.000 x 6TPI WHIT	134.9	22.2
152.4	169.520 x 6TPI WHIT	163.0	22.2



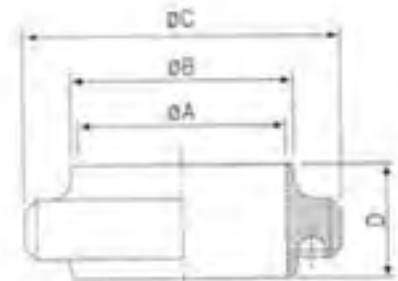
PLAIN LINER

SIZE mm	A	B	C	D	E
25.4	22.2	25.65	32.5	41.3	19.5
38.1	34.9	38.35	45.2	54.0	19.5
50.8	47.6	51.05	57.9	66.7	19.5
63.5	60.3	63.75	70.6	79.4	19.5
76.2	73.0	76.45	83.3	92.1	19.5
101.6	97.6	101.85	108.7	117.5	19.5
127.0	123.8	127.00	134.0	142.9	23.5
152.4	148.0	152.50	161.8	169.1	23.5



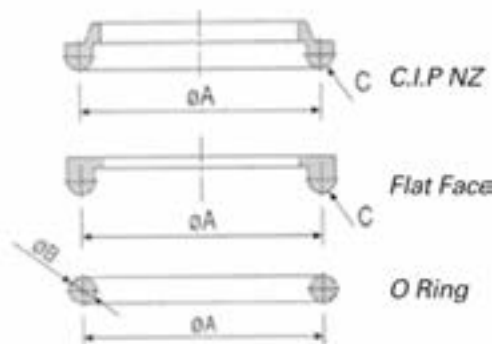
MALE PART

SIZE mm	A	B	C	D
25.4	22.2	25.65	45.72 x 8TPI WHIT	27
38.1	34.9	38.35	58.42 x 8TPI WHIT	27
50.8	47.6	51.05	72.72 x 6TPI WHIT	27
63.5	60.3	63.75	85.42 x 6TPI WHIT	27
76.2	73.0	76.45	98.12 x 6TPI WHIT	27
101.6	97.6	101.85	123.52 x 6TPI WHIT	27
127.0	123.8	127.00	148.30 x 6TPI WHIT	24
152.4	148.0	152.50	174.32 x 6TPI WHIT	24



O-RING (EPDM,TEFLON, VITON)

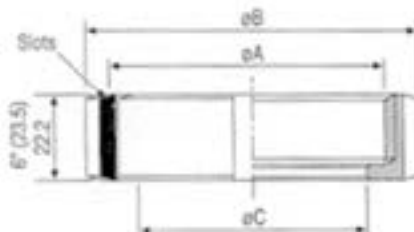
SIZE mm	A	B	C
25.4	33.3	6.6	3.2
38.1	46.0	6.6	3.2
50.8	58.7	6.6	3.2
63.5	71.4	6.6	3.2
76.2	84.1	6.6	3.2
101.6	109.5	6.6	3.2
127.0	134.9	6.6	3.2
152.4	162.6	6.6	3.2



HYGIENIC FITTINGS - TECHNICAL DATA

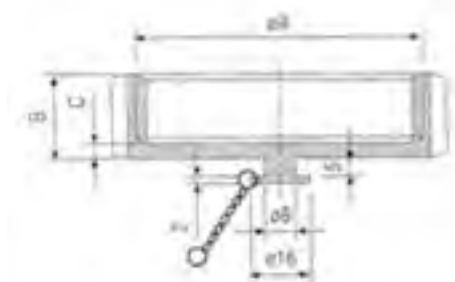
ROUND SLOTTED NUT

SIZE mm	A	B	C	SLOTS
25.4	42.266 x 8TPI WHIT	58.5	33.45	4
38.1	54.966 x 8TPI WHIT	74.0	46.0	4
50.8	67.920 x 6TPI WHIT	85.5	58.67	6
63.5	80.620 x 6TPI WHIT	98.5	71.4	6
76.2	93.320 x 6TPI WHIT	111.6	84.1	8
101.6	119.000 x 6TPI WHIT	138.0	109.7	8
152.4	169.520 x 6TPI WHIT	197.0	163.0	10



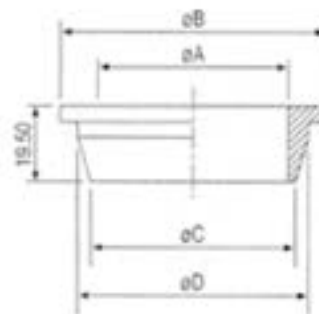
HEXAGONAL BLANK NUT

SIZE mm	A	B	C
25.4	42.266 x 8TPI WHIT	22.2	4
38.1	54.966 x 8TPI WHIT	22.2	4
50.8	67.920 x 6TPI WHIT	22.2	4
63.5	80.620 x 6TPI WHIT	22.2	4
76.2	93.320 x 6TPI WHIT	22.2	4
101.6	118.720 x 6TPI WHIT	22.2	4



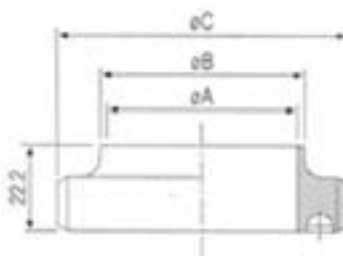
FLAT FACE LINER

SIZE mm	A	B	C	D
25.4	22.2	41.3	25.8	32.5
38.1	34.9	54.0	38.5	45.2
50.8	47.6	66.7	51.2	57.9
63.5	60.3	79.4	63.9	70.6
76.2	73.0	92.1	76.6	83.3
101.6	97.6	117.5	102.2	108.7



MALE PART (LIP REMOVED)

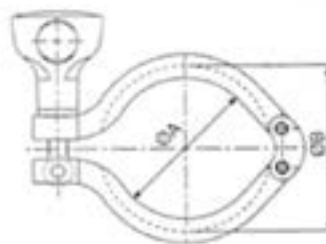
SIZE mm	A	B	C
25.4	22.2	25.65	45.72 x 8T WHIT
38.1	34.9	38.35	58.42 x 8T WHIT
50.8	47.6	51.05	72.72 x 6T WHIT
63.5	60.3	63.75	85.42 x 6T WHIT
76.2	73.0	76.45	98.12 x 6T WHIT
101.6	97.6	101.85	123.52 x 6T WHIT



TRICLOVER FITTING - TECHNICAL DATA

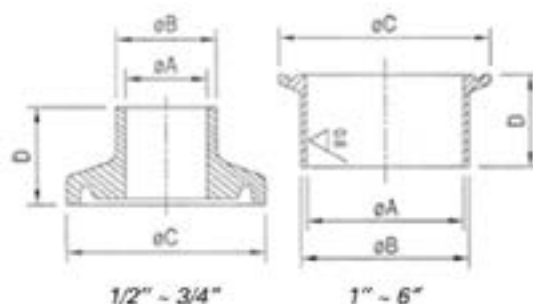
CLAMP HEAVY DUTY

SIZE mm	A	B
12.7 - 19.05	20	28
38.1	43.6	53.6
50.8	57	67
63.5	70.6	80.6
76.2	84	94
101.6	112	122
152.4	155	170



FERRULE LONG

SIZE mm	A	B	C	D
12.7	9.45	12.75	25.2	28.6
19.05	15.75	19.05	25.2	28.6
25.4	22.2	25.4	50.5	28.6
38.1	34.9	38.1	50.5	28.6
50.8	47.6	50.8	64.0	28.6
63.5	60.3	63.5	77.5	28.6
76.2	73.0	76.2	91.0	28.6
101.6	97.6	101.6	119.0	28.6
152.4	146.8	152.5	166.8	28.6



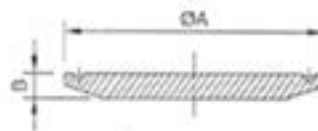
FLANGE SEAL

SIZE mm	A	B
25.4	22.8	52.7
38.1	35.8	52.7
50.8	48.8	66.2
63.5	60.5	79.7
76.2	73.1	93.2
101.6	97.8	121.2



BLANK CAP

SIZE mm	A	B
12.7 - 19.05	25.2	5.0
25.4 - 38.1"	50.5	6.3
50.8	64.0	6.3
63.5	77.5	6.3
76.2	91.0	6.3
101.6	119.0	7.9
152.4	166.7	11.1



STANDARD SEAL

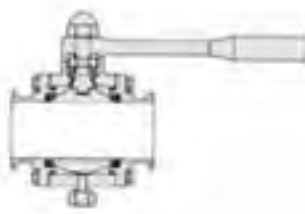
SIZE mm	A	B
12.7	21.8	9.9
19.05	21.8	16.3
25.4	50.0	22.7
38.1	50.0	35.9
50.8	63.5	48.6
63.5	76.2	61.3
76.2	88.9	74.0
101.6	118.0	98.6



VALVES & EQUIPMENT



BUTTERFLY VALVES



BALL VALVES



PLUG VALVES



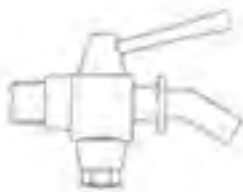
CHECK VALVES



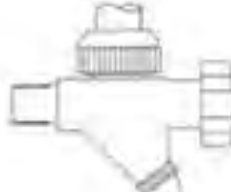
SIGHT GLASSES



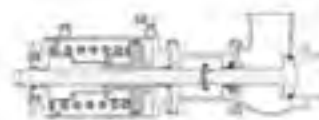
SPRAY BALLS



SAMPLING VALVES



LEVEL GAUGES



SHUT OFF & DIVERT VALVES



FILTERS & STRAINERS



PRESSURE RELIEF VALVES



TANK VENTS

PLATE FLANGES

SPECIFICATIONS:

AS2129
TABLE FLANGES

TYPE:

SLIP-ON WELD SOW
BLIND BL

CLASS:

TABLE D, E, F & H



SLIP-ON



BLIND

GRADE	SIZE I.D	TABLE D		TABLE E		TABLE F		TABLE H	
	mm	SLIP-ON	BLIND	SLIP-ON	BLIND	SLIP-ON	BLIND	SLIP-ON	BLIND
304L	12.7			★	★	☆	☆	☆	☆
	19.05			★	★	☆	☆	☆	☆
	25.4			★	★	☆	☆	☆	☆
	31.8			★	★	☆	☆	☆	☆
	38.1	★	★	★	★	☆	☆	☆	☆
	50.8	★	★	★	★	☆	☆	☆	☆
	63.5	★	★	★	★	☆	☆	☆	☆
	76.2	★	★	★	★	☆	☆	☆	☆
	101.6	★	★	★	★	★	★	☆	☆
	127	★	★	★	★	☆	☆	☆	☆
	152.4	★	★	★	★	☆	☆	☆	☆
	203.2	★	★	★	★	☆	☆	☆	☆
	254	★	★	★	★	☆	☆	☆	☆
	304.8	★	★	★	★	☆	☆	☆	☆
	356	★	☆	★	☆	☆	☆	☆	☆
	406.4	★	☆	★	★	☆	☆	☆	☆
	457.2	☆	☆	☆	★	☆	☆	☆	☆
	508	☆		☆	☆	☆	☆	☆	☆
	609.6	☆	☆	☆	☆	☆	☆	☆	☆
316L	12.7			★	★	☆	☆	☆	☆
	19.05			★	★	☆	☆	☆	☆
	25.4			★	★	☆	☆	★	☆
	31.8			★	★	☆	☆	☆	☆
	38.1	★	★	★	★	☆	☆	☆	☆
	50.8	★	★	★	★	★	☆	☆	☆
	63.5	★	★	★	★	☆	☆	☆	☆
	76.2	★	★	★	★	☆	☆	☆	☆
	101.6	★	★	★	★	★	☆	☆	☆
	127	★	★	★	★	☆	☆	☆	☆
	152.4	★	★	★	★	☆	☆	☆	☆
	203.2	★	★	★	★	☆	☆	☆	☆
	254	★	★	★	★	☆	☆	☆	☆
	304.8	★	★	★	★	☆	☆	☆	☆
	356	★	★	★	★	☆	☆	☆	☆
	406.4	★	★	★	★	☆	☆	☆	☆
	457.2	★	☆	★	☆	☆	☆	☆	☆
	508	★	★	★	★	☆	☆	☆	☆
	609.6	★	☆	★	☆	☆	☆	☆	☆

PLATE FLANGE DIMENSIONS - TECHNICAL DATA



TABLE D

SIZE	SLIP ON BORE	OUTER DIA.	THICKNESS	BOLT CIRCLE DIA.	# OF HOLES	DIA. OF HOLES
mm	SOW	OD	TK	PCD		
12.7	13.7	95	5	67	4	14
19.05	20.1	100	5	73	4	14
25.4	26.4	115	5	83	4	14
31.8	32.8	120	6	87	4	14
38.1	39.3	135	6	98	4	14
50.8	52	150	8	114	4	18
63.5	64.5	165	8	127	4	18
76.2	77.5	185	10	146	4	18
88.9	90.4	205	10	165	4	18
101.6	103	215	10	178	4	18
127	128.5	255	13	210	8	18
152.4	154	280	13	235	8	18
203.2	204.5	335	13	292	8	18
254	256	405	16	356	8	22
304.8	306.5	455	19	406	12	22
355.6	358	525	22	470	12	26
381	384	550	22	495	12	26
406.4	409	580	22	521	12	26
457.2	460	640	25	584	12	26
508	510.5	705	29	641	16	26
558.8	561	760	29	699	16	30
609.6	612	825	32	756	16	30
711.2	714	910	38	845	20	30
762	764.5	995	38	927	20	33
812.8	815.5	1060	38	984	20	36
863.6	866	1090	50	1016	20	36
914.4	917.5	1175	50	1092	24	36

TABLE E

SIZE	SLIP ON BORE	OUTER DIA.	THICKNESS	BOLT CIRCLE DIA.	# OF HOLES	DIA. OF HOLES
mm	SOW	OD	TK	PCD		
12.7	13.7	95	6	67	4	14
19.05	20.1	100	6	73	4	14
25.4	26.4	115	7	83	4	14
31.8	32.8	120	8	87	4	14
38.1	39.3	135	9	98	4	14
50.8	52	150	10	114	4	18
63.5	64.5	165	10	127	4	18
76.2	77.5	185	11	146	4	18
88.9	90.4	205	13	165	8	18
101.6	103	215	13	178	8	18
127	128.5	255	14	210	8	18
152.4	154	280	17	235	8	22
203.2	204.5	335	19	292	8	22
254	256	405	22	356	12	22
304.8	306.5	455	25	406	12	26
355.6	358	525	29	470	12	26
381	384	550	32	495	12	26
406.4	409	580	32	521	12	26
457.2	460	640	35	584	16	26
508	510.5	705	38	641	16	26
558.8	561	760	44	699	16	30
609.6	612	825	48	756	16	33
711.2	714	910	54	845	20	33
762	764.5	995	54	927	20	36
812.8	815.5	1060	54	984	20	36
863.6	866	1090	57	1016	20	36
914.4	917.5	1175	64	1092	24	36

SEAMLESS TUBE

SPECIFICATIONS: ASTM A269
ASTM A213 (ON REQUEST)

LENGTHS: FIXED 6 METRES

FINISH: ANNEALED & PICKLED
BRIGHT ANNEALED



SIZE mm		TP304	TP316
OD	WT		
3.18	0.7	☆	★
4.76	0.7	☆	★
6.35	0.9	☆	★
6.35	1.2	☆	★
6.35	1.6	☆	★
7.94	0.9	☆	★
7.94	1.2	☆	★
7.94	1.6	☆	★
9.53	0.9	☆	★
9.53	1.2	☆	★
9.53	1.6	☆	★
12.7	0.9	☆	★
12.7	1.2	☆	★
12.7	1.6	☆	★
15.88	1.2	☆	★
15.88	1.6	☆	★
19.05	1.2	☆	★
19.05	1.6	☆	★
19.05	2.0	☆	★
25.4	1.2	☆	★
25.4	1.6	☆	★
25.4	2	☆	★
31.8	1.6	☆	★
31.8	2	☆	☆
38.1	1.6	☆	★
38.1	2	☆	★
38.1	3	☆	★
50.8	1.6	☆	★
50.8	2	☆	★
50.8	3	☆	★

SEAMLESS WELDED TUBE

TECHNICAL DATA

APPROXIMATE MASS & THEORETICAL BURSTING PRESSURE FOR SEAMLESS & WELDED TUBE (WELDED REFER NOTES)

WT	mm SWG	0.45	0.51	0.61	0.71	0.91	1.22	1.63	2.03	2.64	3.25
		26	25	23	22	20	18	16	14	12	10
OD mm	Inch										
3.18	1/8	0.030 <i>145.8</i>	0.034 <i>165.2</i>	0.039 <i>197.6</i>	0.043 <i>230.0</i>	0.051 <i>294.7</i>					
4.76	3/16	0.048 <i>97.4</i>	0.053 <i>440.4</i>	0.062 <i>132.0</i>	0.071 <i>153.6</i>	0.086 <i>196.9</i>					
6.35	1/4	0.065 <i>73.0</i>	0.073 <i>82.7</i>	0.086 <i>98.9</i>	0.099 <i>115.2</i>	0.122 <i>146.6</i>	197.9	264.4			
7.94	5/16	0.083 <i>58.4</i>	0.093 <i>66.2</i>	0.110 <i>79.1</i>	0.127 <i>92.1</i>	0.158 <i>118.0</i>	0.202 <i>158.3</i>	0.254 <i>211.4</i>			
9.53	3/8	0.101 <i>48.6</i>	0.113 <i>55.1</i>	0.134 <i>65.9</i>	0.154 <i>76.7</i>	0.193 <i>98.4</i>	0.250 <i>131.9</i>	0.358 <i>176.2</i>			
12.70	1/2	0.136 <i>36.5</i>	0.153 <i>41.4</i>	0.182 <i>49.5</i>	0.210 <i>57.6</i>	0.265 <i>73.8</i>	0.345 <i>98.9</i>	0.445 <i>132.2</i>	0.534 <i>164.6</i>		
15.88	5/8		0.193 <i>33.1</i>	0.230 <i>39.6</i>	0.266 <i>46.1</i>	0.336 <i>59.0</i>	0.441 <i>79.1</i>	0.573 <i>105.7</i>	0.693 <i>131.7</i>		
19.05	3/4		0.233 <i>27.6</i>	0.277 <i>33.0</i>	0.321 <i>38.4</i>	0.407 <i>49.2</i>	0.536 <i>66.0</i>	0.700 <i>88.1</i>	0.852 <i>109.8</i>	1.068 <i>142.7</i>	1.266 <i>175.7</i>
22.23	7/8		0.273 <i>23.6</i>	0.325 <i>28.3</i>	0.377 <i>32.9</i>	0.478 <i>42.2</i>	0.632 <i>56.5</i>	0.828 <i>75.5</i>	1.011 <i>94.1</i>	1.275 <i>122.3</i>	1.521 <i>150.6</i>
25.40	1		0.313 <i>20.7</i>	0.373 <i>24.7</i>	0.432 <i>28.8</i>	0.550 <i>36.9</i>	0.727 <i>49.5</i>	0.955 <i>66.1</i>	1.170 <i>82.3</i>	1.482 <i>107.1</i>	1.775 <i>131.8</i>
28.58	1 1/8				0.488 <i>25.6</i>	0.621 <i>32.8</i>	0.823 <i>44.0</i>	1.083 <i>58.7</i>	1.329 <i>73.2</i>	1.689 <i>95.1</i>	2.030 <i>117.1</i>
31.75	1 1/4				0.543 <i>23.0</i>	0.692 <i>29.5</i>	0.919 <i>36.6</i>	1.211 <i>52.9</i>	1.488 <i>65.9</i>	1.895 <i>85.6</i>	2.284 <i>105.4</i>
38.10	1 1/2					0.835 <i>24.6</i>	1.110 <i>33.0</i>	1.466 <i>44.1</i>	1.806 <i>54.9</i>	2.309 <i>71.4</i>	2.793 <i>87.9</i>
44.45	1 3/4					0.977 <i>21.1</i>	1.301 <i>28.3</i>	1.721 <i>37.8</i>	2.124 <i>47.0</i>	2.722 <i>61.2</i>	3.302 <i>75.3</i>
50.80	2					1.120 <i>18.5</i>	1.492 <i>24.7</i>	1.976 <i>33.0</i>	2.441 <i>41.2</i>	3.135 <i>53.5</i>	3.811 <i>65.9</i>
63.50	2 1/2						1.874 <i>19.8</i>	2.487 <i>26.4</i>	3.077 <i>32.9</i>	3.962 <i>42.8</i>	4.829 <i>52.7</i>
76.20	3						2.256 <i>16.5</i>	2.997 <i>22.0</i>	3.713 <i>27.5</i>	4.789 <i>35.7</i>	5.847 <i>43.9</i>
88.90	3 1/2							3.508 <i>18.9</i>	4.349 <i>23.5</i>	5.616 <i>30.6</i>	6.864 <i>37.7</i>
101.60	4							4.018 <i>16.5</i>	4.984 <i>20.6</i>	6.443 <i>26.8</i>	7.882 <i>32.9</i>
127.00	5							5.039 <i>13.2</i>	6.256 <i>16.5</i>	8.096 <i>21.4</i>	9.918 <i>26.4</i>
152.40	6							6.060 <i>11.0</i>	7.527 <i>13.7</i>	9.750 <i>17.8</i>	11.954 <i>22.0</i>
203.20	8							8.102 <i>8.3</i>	10.071 <i>10.3</i>	13.057 <i>13.4</i>	16.025 <i>16.5</i>

- Figures shown in bold are the Theoretical Weight of the tube, calculated using the nominal outside diameter and wall thickness as in the formula: $w = C (d-t)t$. Where W = Weight (kg/m), C = 0.02466 d = Specified OD (millimetres) t = Specified WT (millimetres)
- Figures shown in italics are the Theoretical Bursting Pressure of Grade 316, 304 and 321 seamless tube, calculated using Barlow's thin wall formula and where S = 515 MPa: $P = \frac{2st}{D}$

Where: P = Theoretical Bursting Pressure (MPa) S = Tensile Strength (MPa) t = Wall thickness (millimetres) D = Outside diameter (millimetres)

For Theoretical Bursting Pressure of Grades 316, 304 and 321 welded tube, multiply the figures shown in the table by 0.85 (Weld Joint Efficiency).

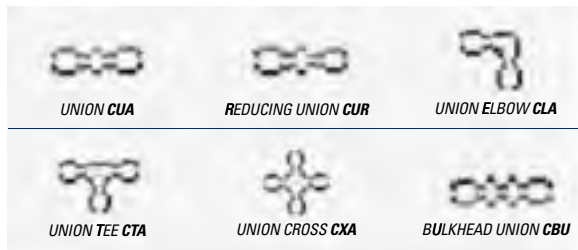
For Theoretical Bursting Pressure of Grades 316L and 304L seamless tube S = 485 MPa, multiply the figure shown in the table by 0.9417.

For Theoretical Bursting Pressure of Grades 316L and 304L welded tube, multiply the figures shown in the table by 0.8005 (S = 485 MPa x 0.85 Weld Joint Efficiency).

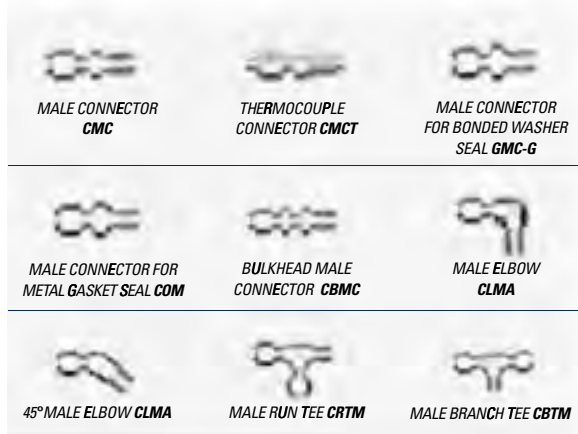
This Table is a guide only and should not be used to determine availability of products.

COMPRESSION FITTINGS

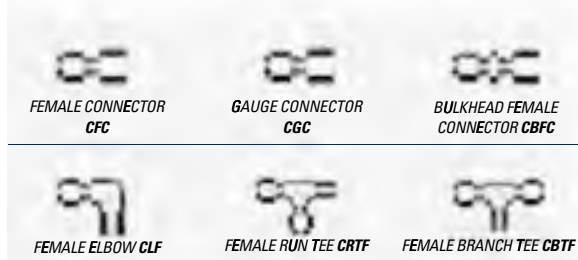
TUBE TO TUBE UNION



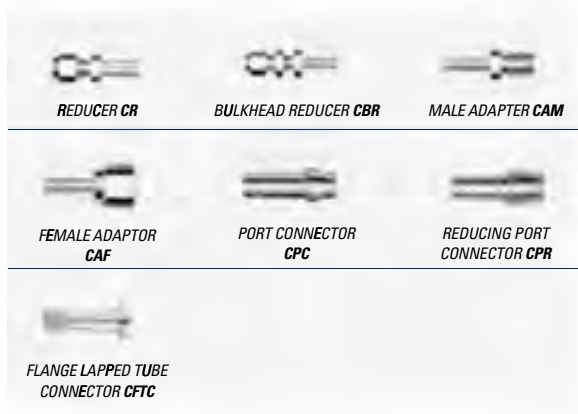
TUBE TO MALE PIPE



TUBE TO FEMALE PIPE



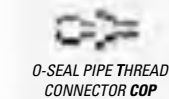
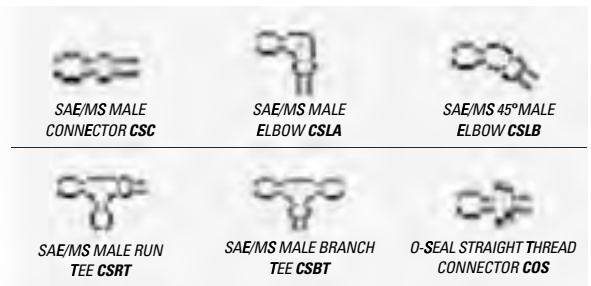
STUB TUBE CONNECTOR



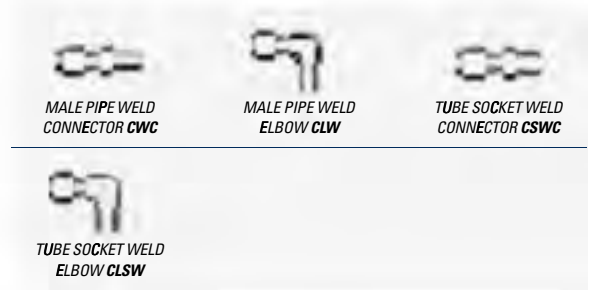
TUBE TO AN TUBE



TUBE TO SAE/MS O-RING



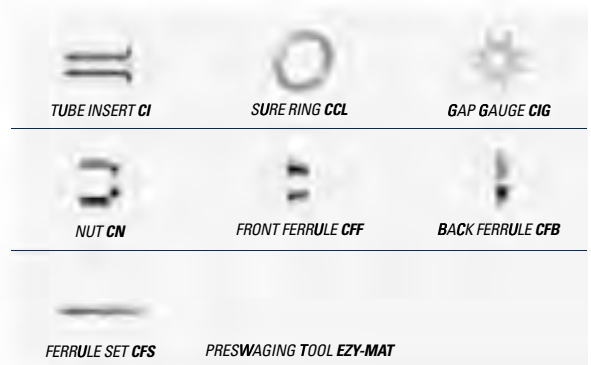
TUBE TO WELD END



PLUG & CAP



TUBE TO TUBE UNION



AUXILIARY TUBE FITTINGS

ADJUSTABLE FEET & INSERTS

(M16 THREAD)

STAINLESS STEEL ADJUSTABLE FOOT

BASE SIZE	304
32mm	★
50mm	★
65mm	★



SQUARE TUBE NYLON INSERTS

BASE SIZE	304
25mm	★
32mm	★
38mm	★



STAINLESS STEEL TUBE SADDLES

SIZE	304
1/4"	★
3/8"	★
1/2"	★
3/4"	★
1"	★
1 1/4"	★
1 1/2"	★
2"	★



STAINLESS STEEL CONCEALED FLANGES

TUBE SIZE	304	316
1/2"	★	★
3/4"	★	★
1"	★	★
1 1/4"	★	★
1 1/2"	★	★
2"	★	★
2 1/2"	☆	★
3"	☆	★
4"	☆	★



SIDE VIEW



TOP VIEW

T316 SOLID PUSH-IN CAPS

TO SUIT O.D	316
25.4mm	★
31.8mm	★
38.1mm	★
50.8mm	★
63.5mm	★
76.2mm	★



FACE RINGS



FLAT FACE RINGS

INSIDE DIAMETER	MATERIAL	GRADE 316
mm		
38.1	3mm Thick	☆
50.8	3 mm Thick	★
63.5	3 mm Thick	★
76.2	3mm Thick	☆

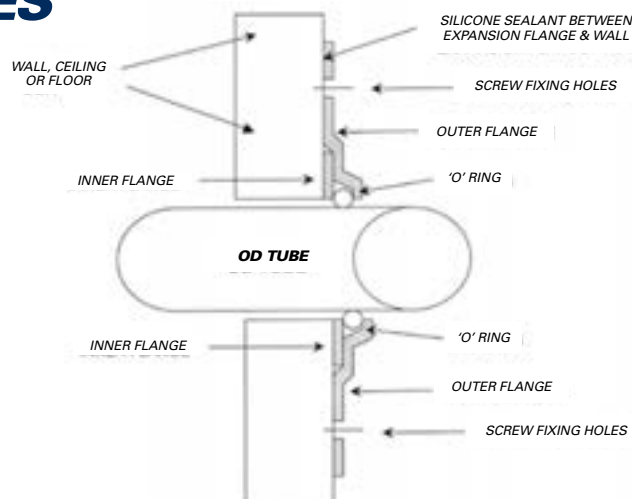
ANGLE NECK RINGS



INSIDE DIAMETER	MATERIAL	GRADE 316
mm		
38.1	PRESSED	★
50.8	PRESSED	★
63.5	PRESSED	★
76.2	20 x 20 x 3	★
101.6	20 x 20 x 3	★
127	25 x 25 x 3	★
152.4	25 x 25 x 3	★
203	25 x 25 x 3	★
254	30 x 30 x 4	★
305	30 x 30 x 4	★
356	40 x 40 x 5	☆
406	40 x 40 x 5	★
457	40 x 40 x 5	★
508	40 x 40 x 5	★

EXPANSION FLANGES

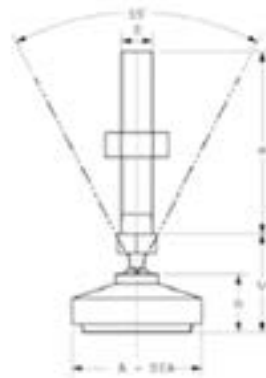
SIZE	304
3/4"	★
1"	★
1 1/4"	★
1 1/2"	★
2"	★
2 1/2"	★
3"	★
4"	★
6"	★



ADJUSTABLE FEET & INSERTS

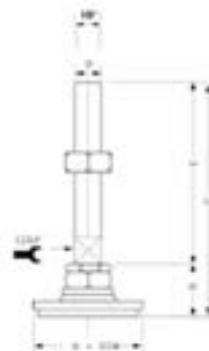
**HD = HEAVY DUTY 121 SERIES (STAINLESS STEEL)
COMPLETE WITH ANTI SLIP PADS**

SIZE	A	B	C	D	E	RATING
40xM8	40	60	30	18	M8	500kg
40xM10	40	60	30	18	M10	700kg
60xM12	60	90	40	17	M12	1200kg
60xM12x190	60	190	40	17	M12	1200kg
60xM16	60	90	40	17	M16	2000kg
60xM16x190	60	190	40	17	M16	2000kg
60xM20	60	90	40	17	M20	3500kg
60xM20x190	60	190	40	17	M20	3500kg
60xM24	60	90	40	17	M24	4500kg
60xM24x190	60	190	40	17	M24	4500kg
90xM12	90	90	48	19	M12	1200kg
90xM12x190	90	190	48	19	M12	1200kg
90xM16	90	90	48	19	M16	2000kg
90xM16x190	90	190	48	19	M16	2000kg
90xM20	90	90	48	19	M20	3500kg
90xM20x190	90	190	48	19	M20	3500kg
90xM24	90	90	48	19	M24	4500kg
90xM24x190	90	190	48	19	M24	4500kg
125xM12	125	90	45	22	M12	1200kg
125xM16	125	90	45	22	M16	2000kg
125xM16x190	125	190	45	22	M16	2000kg
125xM20	125	90	45	22	M20	3500kg
125xM20x190	125	190	45	22	M20	3500kg
125xM24	125	90	45	22	M24	4500kg
125xM24x90	125	190	45	22	M24	4500kg



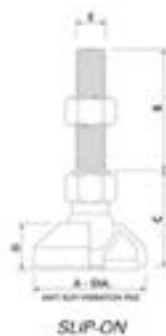
HDA STANDARD 221 SERIES

A	B	C	D	E	F	G
BASE	BASE HEIGHT	OVERALL HEIGHT	STUD	THREAD LENGTH	PIVOT ANGLE	RATING
90	45	115	M16	70	10 deg	2000kg
90	45	215	M16	170	10 deg	2000kg
90	45	115	M20	70	10 deg	3000kg
90	45	215	M20	170	10 deg	3000kg
90	45	115	M24	70	10 deg	4000kg
90	45	215	M24	170	10 deg	4000kg



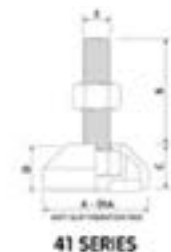
BALL JOINTED (STAINLESS STEEL) 21 SERIES

SIZE	A	B	C	D	E	RATING
40xM8	40	80	33	20	M8	350kg
40xM10	40	60	33	20	M10	500kg
60xM12	60	65	51	25	M12	800kg
60xM16	60	65	51	25	M16	1000kg
90xM12	90	65	51	25	M12	800kg
90xM16	90	65	51	25	M16	1000kg
60xM16	60	165	51	25	M16	1000kg
90xM16	90	165	51	25	M16	1000kg
60xM20	60	100	51	25	M20	1000kg
60xM20	60	165	51	25	M20	1000kg
90xM20	90	100	51	25	M20	1000kg
90xM20	90	165	51	25	M20	1000kg



(STAINLESS STEEL) 41 SERIES

SIZE	A	B	D	E	RATING
40xM8	40	35	20	M8	350kg
40xM10	40	35	20	M10	500kg
60xM12	60	60	25	M12	800kg



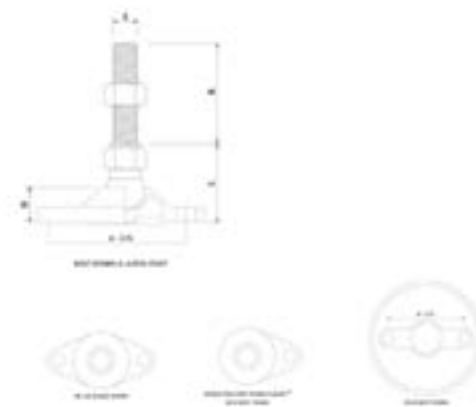
Available in other stud lengths (B) as required

RICHMOND
WHEEL & CASTOR CO

ADJUSTABLE FEET & INSERTS

BOLT DOWN (STAINLESS STEEL) 31 SERIES

SIZE	A	B	C	D	E	RATING
40xM8	60	80	33	20	M8	350kg
40xM10	60	60	33	20	M10	500kg
60xM12	80	65	51	23	M12	800kg
60xM16	80	65	51	23	M16	1000kg
60xM16	80	165	51	23	M16	1000kg
60xM20	80	100	51	23	M20	1000kg
60xM20	80	165	51	23	M20	1000kg
90xM12	60	65	51	25	M12	800kg
90xM16	60	65	51	25	M16	1000kg
90xM16	60	165	51	25	M16	1000kg
90xM20	60	100	51	25	M20	1000kg
90xM20	60	165	51	25	M20	1000kg

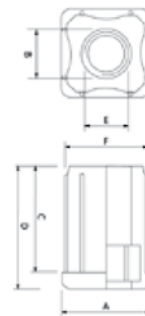


Available in other stud lengths (B) as required

* Denotes also available with single hole flange

SQUARE THREADED TUBE END (STAINLESS STEEL) 11 SERIES (G) IS RECOMMENDED ID TUBE SIZE

SIZE	A	B	C	D	E	F	G	RATING
19xM8	19	M8	22.5	24.8	9	16	15-16	50kg
25xM8	25	M8	39	44	10	23.5	22-23	250kg
25xM10	25	M10	39	44	11	23.5	22-23	250kg
25xM12	25	M12	39	44	13	23.5	22-23	250kg
25xM16	25	M16	39	44	16.5	23.5	22-23	250kg
30xM8	30	M8	39	45	10	26.8	26-27	350kg
30xM10	30	M10	39	45	11	26.8	26-27	350kg
30xM12	30	M12	39	45	13	26.8	26-27	350kg
30xM16	30	M16	39	45	16.5	26.8	26-27	350kg
32xM8	32	M8	39	45	10	30	28-29	350kg
32xM10	32	M10	39	45	11	30	28-29	350kg
32xM12	32	M12	39	45	13	30	28-29	350kg
32xM16	32	M16	39	45	16.5	30	28-29	350kg
35xM8	35	M8	39	45	11	32.2	31-32	350kg
35xM10	35	M10	39	45	11	32.2	31-32	400kg
35xM12	35	M12	39	45	13	32.2	31-32	400kg
35xM16	35	M16	39	45	16.5	32.2	31-32	400kg
38xM8	38	M8	41	45	10	36	35-36	500kg
38xM10	38	M10	41	47	17.7	36	35-36	500kg
38xM12	38	M12	41	47	13	36	35-36	500kg
38xM16	38	M16	41	47	18	36	35-36	500kg
40xM10	40	M10	39	45	11	36.8	36-37	500kg
40xM12	40	M12	39	45	13	36.8	36-37	500kg
40xM16	40	M16	39	45	16.5	36.8	36-37	500kg
51xM10	51	M10	39	45	11	48	47-48	750kg
51xM12	51	M12	39	45	13	48	47-48	750kg
51xM16	51	M16	39	45	18	48	47-48	750kg
51xM20	51	M20	39	45	18	48	47-48	750kg



ROUND THREADED TUBE END (STAINLESS STEEL) 81 SERIES

SIZE	A	B	C	D	E	F	G	RATING
25xM8	25	M8	38	46.5	11	23	22	100kg
25xM10	25	M10	38	46.5	12	23	22	100kg
25xM12	25	M12	38	46.5	14	23	22	100kg
32xM10	32	M10	39	45	12	29.5	28-29	250kg
32xM12	32	M12	39	45	14	29.5	28-29	250kg
32xM16	32	M16	39	45	18	29.5	28-29	250kg
38xM10	38	M10	38	45	12	35.5	35-36	300kg
38xM12	38	M12	38	45	14	35.5	35-36	300kg
38xM16	38	M16	38	45	18	35.5	35-36	300kg
40xM8	40	M8	39	45	11	36.8	36-37	350kg
40xM10	40	M10	39	45	12	36.8	36-37	500kg
40xM12	40	M12	39	45	14	36.8	36-37	500kg
40xM16	40	M16	39	45	18	36.8	36-37	500kg
51xM12	51	M12	38	45	14	48	47-48	450kg
51xM16	51	M16	38	45	18	48	47-48	450kg
62xM16	62	M16	38	45	18	60.5	60-61	450kg



STAINLESS STEEL TUBE

WHEELS & CASTORS



R RICHMOND
WHEEL & CASTOR CO

WHEELS & CASTORS



MEGABINS

- Stackable
- Pallet jack and fork lift compatible
- Up to 40% lighter than wooden produce crates
- 10 year manufacturer warranty on outdoor weathering
- 3 year manufacturer warranty on wear and tear
- Food grade material
- Fully UV stabilised
- Non-absorbent surface
- Two hand holds for lifting
- Rounded internal corners
- Smooth interior surface

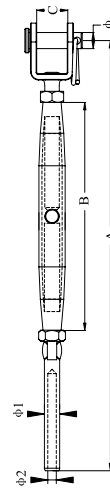


STAINLESS STEEL TUBE

RIGGING SCREW/ PIPE TURNBUCKLE SS304 OR SS316

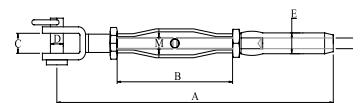
(JAW AND SWAGE TERMINAL)

φ mm	φ1 mm	φ2 mm	A mm	B mm	C mm	ROPE mm	SWL kgs	BL kgs
5.00	5.50	2.80	155.00	80.00	10.00	2.50	150	600
5.00	6.20	3.50	155.00	82.00	6.80	3.20	200	800
6.00	6.35	3.30	176.00	92.00	10.00	3.20	250	1000
6.00	7.40	4.30	174.00	92.00	10.50	4.00	300	1200
8.00	7.50	4.30	190.00	112.00	11.00	4.00	350	1400
10.00	9.00	5.30	237.00	120.00	15.00	5.00	550	2200
12.00	12.58	6.30	288.00	150.00	17.00	6.00	1000	4000
14.00	14.20	7.30	331.00	170.00	15.00	7.00	1350	5400
16.00	16.00	8.30	372.00	190.00	20.00	8.00	1625	6500
20.00	20.00	10.30	459.00	220.00	30.00	10.00	2125	8500

**MINI RIGGING SCREW/ PIPE TURNBUCKLE SS304 OR SS316**

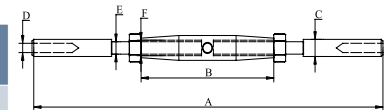
(JAW AND SWAGE TERMINAL),

A mm	B mm	C mm	D mm	E mm	F mm	M mm	ROPE mm
110.50	45.00	7.00	4.90	6.30	3.60	M5	3.20
144.00	61.00	8.50	5.90	7.50	4.40	M6	4.00
155.00	60.00	11.50	7.90	9.00	5.30	M8	5.00
203.00	80.00	14.90	9.90	12.60	6.50	M10	6.00

**RIGGING SCREW SS304 OR SS316**

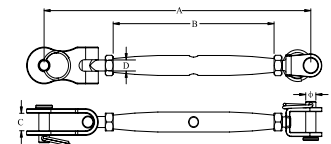
(SWAGE AND SWAGE)

A mm	B mm	C mm	D mm	E mm	F mm	ROPE mm
188.00	80.80	6.30	3.60	5.00	M5	3.20

**RIGGING SCREW/ PIPE TURNBUCKLE SS304 OR SS316**

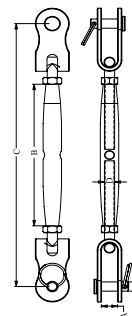
(SWIVEL TOGGLE AND JAW)

φ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
6.00	166.00	92.00	8.50	M6	238	950
8.00	200.00	112.00	11.00	M8	450	1800
10.00	236.00	120.00	14.50	M10	625	2500
12.00	285.00	152.00	18.40	M12	925	3700

**RIGGING SCREW/ PIPE TURNBUCKLE SS304 OR SS316**

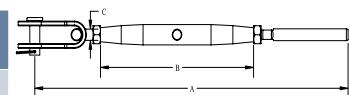
(WIDE AND WIDE TOGGLE),

φ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
6.00	11.60	92.00	185.00	M6	275	1100
8.00	13.00	112.00	213.00	M8	450	1800
10.00	17.50	121.00	255.00	M10	750	3000
12.00	24.50	150.00	306.00	M12	938	3750

**RIGGING SCREW/ PIPE TURNBUCKLE SS304 OR SS316**

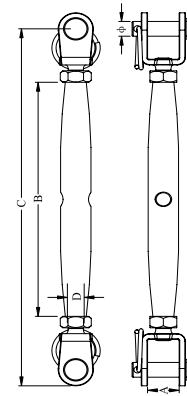
(SWIVEL TOGGLE AND SWAGE TERM)

A mm	B mm	C mm	SWL kgs	BL kgs	ROPE mm
192.00	93.00	M6	238	950	3.20
230.00	111.00	M8	450	1800	4.00
263.00	120.00	M10	625	2500	5.00
330.00	150.00	M12	925	3700	6.00



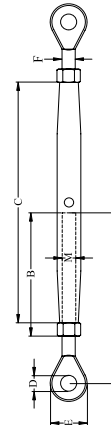
RIGGING SCREW/ PIPE TURNBUCKLE SS304 OR SS316
(JAW AND JAW)

φ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
4.90	7.50	50.00	115.00	M5	150	600
5.00	10.30	81.00	138.00	M5	189	750
6.00	10.30	92.00	153.00	M6	350	1400
8.00	11.20	112.00	188.00	M8	550	2200
10.00	15.00	121.00	212.00	M10	865	3450
12.00	17.50	150.00	266.00	M12	1250	5000
14.00	15.50	169.00	318.00	M14	1600	6400
16.00	22.00	190.00	355.00	M16	2000	8000
20.00	27.50	223.00	452.00	M20	2625	10500

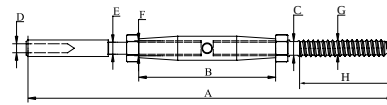


RIGGING SCREW/ PIPE TURNBUCKLE SS304 OR SS316
(EYE AND EYE)

A mm	B mm	C mm	D mm	E mm	F mm	M mm	SWL kgs	BL kgs
63.80	41.50	81.00	5.60	12.00	4.40	M5	188	750
61.50	48.00	92.00	6.50	13.50	4.00	M6	250	1000
80.00	63.60	111.60	8.60	16.60	7.00	M8	550	2200
88.00	69.00	119.00	10.80	20.80	8.80	M10	750	3000
109.50	88.00	150.00	13.00	25.60	10.70	M12	1250	5000
125.50	92.50	170.00	13.00	27.40	9.00	M14	1525	6100
136.00	110.00	190.00	14.50	30.50	14.30	M16	2000	8000
169.00	120.00	220.00	19.50	29.00	15.00	M20	2625	10500



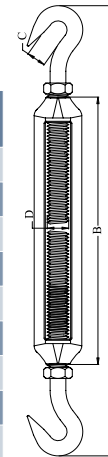
RIGGING SCREW SS304 OR SS316
(LAG AND SWAGE)



A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	WIRE mm
187.00	82.00	4.00	3.50	4.9	M5	4.50	40.30	3.20

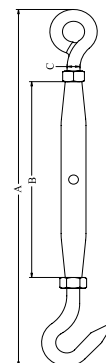
TURNBUCKLE, FRAME TYPE SS304 OR SS316
(HOOK AND HOOK)

A mm	B mm	C mm	D mm	SWL kgs	BL kgs
116.00	61.50	9.00	M4	119	475
130.00	71.00	9.50	M5	170	680
167.00	90.50	8.50	M6	375	1500
214.00	122.00	10.30	M8	575	2300
230.00	135.00	12.00	M9	600	2400
265.00	151.50	12.50	M10	775	3100
320.00	201.00	15.00	M12	1100	4400
385.00	244.00	16.00	M16	2025	8100
485.00	295.00	20.00	M20	2750	11000



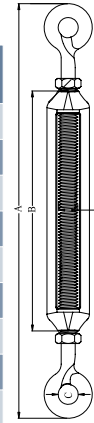
RIGGING SCREW/ PIPE TURNBUCKLE SS304 OR SS316
(HOOK AND EYE)

A mm	B mm	C mm	SWL kgs	BL kgs
134.00	80.00	M5	33	130
163.00	90.00	M6	88	350
191.00	105.00	M8	163	650
233.00	125.00	M10	200	800
267.00	150.00	M12	350	1400
344.00	190.00	M16	600	2400
444.00	210.00	M20	875	3500



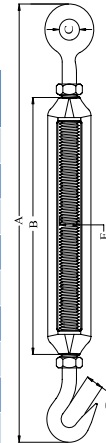
TURNBUCKLE, FRAME TYPE SS304 OR SS316
(EYE AND EYE)

A mm	B mm	C mm	D mm	SWL kgs	BL kgs
103.00	61.50	8.00	M4	118	475
127.50	71.00	10.00	M5	170	680
160.00	90.50	12.00	M6	375	1500
208.00	122.00	14.00	M8	575	2300
225.00	135.00	16.00	M9	600	2400
250.00	151.50	16.00	M10	775	3100
317.00	200.00	18.00	M12	1100	4400
400.00	244.00	26.00	M16	2025	8100
484.00	295.00	29.00	M20	2750	11000



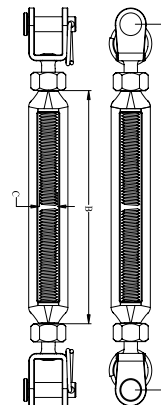
TURNBUCKLE, FRAME TYPE (HOOK AND EYE)
SS304 OR SS316

A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
110.00	61.50	8.00	9.00	M4	118.80	475
127.50	71.00	10.00	9.50	M5	170	680
163.00	90.50	12.00	9.00	M6	375	1500
212.00	122.00	14.00	10.30	M8	575	2300
226.00	135.00	16.00	12.00	M9	600	2400
259.00	151.50	16.00	12.50	M10	775	3100
321.00	201.00	18.00	14.00	M12	1100	4400
397.00	244.00	26.00	16.00	M16	2025	8100
484.00	295.00	29.00	19.00	M20	2750	11000



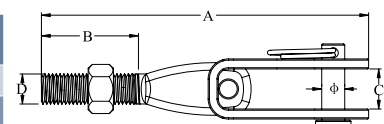
TURNBUCKLE, FRAME TYPE (JAW AND JAW)
SS304 OR SS316

A mm	B mm	C mm	SWL kgs	BL kgs
130.00	71.00	M5	188	750
152.00	90.50	M6	350	1400
192.00	121.50	M8	550	2200
243.00	151.50	M10	863	3450
316.00	200.00	M12	1250	5000
376.00	225.00	M14	1600	6400
412.00	244.00	M16	2000	8000
525.00	295.00	M20	2625	10500



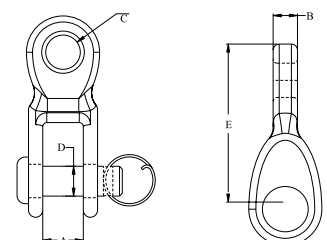
TOGGLE TERMINAL WITH NUT
SS304 OR SS316

φ mm	A mm	B mm	C mm	D mm
9.70	113.00	25.00	17.00	M12
9.70	126.00	40.00	16.90	M12



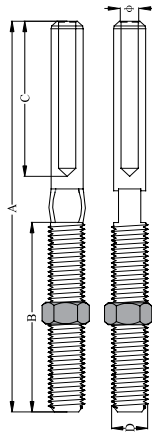
SWAGE TOGGLE
SS304 OR SS316

A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
5.60	3.80	5.50	4.90	35.00	250	1000
7.50	5.00	6.60	5.90	41.00	312	1250
9.90	6.00	9.00	7.90	49.70	425	1700
12.00	6.70	10.00	8.90	54.90	775	3100
13.00	9.00	13.10	11.90	77.70	1162	4650
14.70	10.00	15.00	14.00	91.30	1437	5700
16.60	12.20	16.60	15.70	115.90	2037	8100



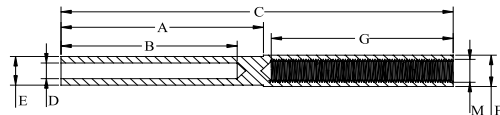
STUD TERMINAL SS304 OR SS316

*Supplied with 8mm A/F nuts



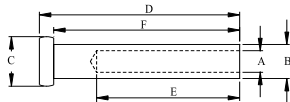
φ mm	A mm	B mm	C mm	D mm
2.70	86.00	40.00	35.00	M5
3.50	75.0	30.0	35.0	M5(LEFT)
3.50	75.0	30.0	35.0	M5
3.50	75.0	30.0	35.0	M6(LEFT)
3.50	75.0	30.0	35.0	M6
3.20	90.00	40.00	40.00	M5
3.20	90.00	40.00	40.00	M5(LEFT)
3.30	97.00	48.00	38.00	M6
3.20	97.00	48.00	40.00	M6(LEFT)
4.00	109.00	49.00	48.00	M6
4.00	100.00	48.00	40.00	M6(LEFT)
4.30	115.00	54.00	45.00	M8
5.30	128.00	61.00	52.00	M10
6.30	130.00	63.00	52.00	M10
6.30	162.00	79.00	63.00	M12
7.30	178.00	90.00	70.00	M14
8.30	214.00	102.00	80.00	M16
10.50	215.00	105.00	90.00	M20
12.50	260.00	120.00	120.00	M20
14.80	300.00	140.00	140.00	M20
17.00	355.00	170.00	160.00	M24
21.00	425.00	180.00	200.00	M30

STUD TERMINAL SS304 OR SS316 (ONE SIDE INTER THREAD)



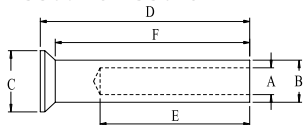
A mm	B mm	C mm	D mm	E mm	F mm	G mm	M mm
46.00	38.00	88.00	3.40	6.30	8.00	35.00	M5
50.00	45.00	95.00	4.40	7.50	8.00	35.00	M6
46.00	38.00	88.00	3.60	6.30	8.00	35.00	M5

ROD TERMINAL (DOME) SS304 OR SS316



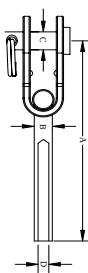
A mm	B mm	C mm	D mm	E mm	F mm
3.30	6.30	10.00	35.00	25.00	32.00
3.30	5.50	8.00	35.00	25.00	32.00
4.30	6.30	10.00	35.00	25.00	32.00
5.30	7.50	11.50	41.00	30.00	38.00
6.30	9.08	14.00	52.00	40.00	48.50
8.40	12.50	18.00	66.00	50.00	62.00
10.50	16.08	22.00	77.00	60.00	73.00

COUNTER-SUNK ROD TERMINAL SS304 OR SS316



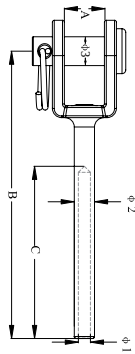
A mm	B mm	C mm	D mm	E mm	F mm
3.30	5.50	8.00	35.00	25.00	32.50
4.30	6.30	10.00	35.00	25.00	32.00
5.30	7.50	11.50	41.00	30.00	38.00
6.30	9.08	14.00	52.00	40.00	48.50
8.40	12.50	18.00	66.00	50.00	62.00
10.50	16.08	22.00	77.00	60.00	73.00

TOGGLE TERMINAL SS304 OR SS316



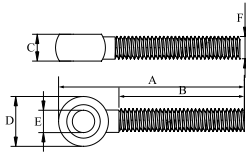
A mm	B mm	C mm	D mm	SWL kgs	BL kgs	ROPE mm
68.00	5.50	4.90	2.70	100	400	2.50
79.00	6.30	5.90	3.30	167	670	3.20
91.30	7.50	7.90	4.30	350	1400	4.00
107.80	9.00	9.80	5.30	425	1700	5.00
128.00	12.50	11.80	6.30	1000	4000	6.00
180.00	16.00	15.50	8.30	1750	7000	8.00
205.00	17.80	19.40	10.50	1875	7500	10.00

FORK TERMINAL FORGED SS304 OR SS316



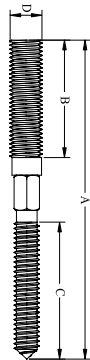
Φ 1 mm	Φ 2 mm	Φ 3 mm	A mm	B mm	C mm	SWL kgs	BL kgs	ROPE mm
2.70	5.45	5.00	6.50	55.00	24.00	175	700	2.5
3.50	6.35	6.00	8.20	65.00	32.00	313	1250	3.2
3.40	6.24	5.00	7.50	50.00	25.00	300	1200	3.2
3.50	6.35	5.00	7.00	65.00	32.00	313	1250	3.2
4.30	7.50	8.00	9.20	73.00	45.00	450	1800	4.0
4.40	7.50	6.00	8.20	73.00	45.00	450	1800	4.0
5.30	9.00	10.00	12.00	88.00	57.00	663	2650	5.0
6.40	12.50	12.00	14.00	106.00	63.00	1000	4000	6.0
8.80	16.00	13.00	17.50	155.00	95.00	1450	5800	8.0
10.80	18.00	16.00	21.00	177.00	110.00	1800	7200	10.0

EYE BOLT/ SCREW SS304 OR SS316



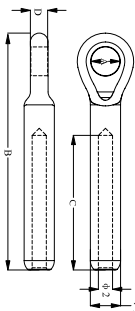
A mm	B mm	C mm	D mm	E mm	F mm
28.00	10.00	7.00	14.00	6.20	M6
26.00	10.00	6.70	12.70	5.90	M6
43.00	26.00	6.70	12.70	6.00	M6

DOUBLE THREAD LAG SCREW SS304 OR SS316



A mm	B mm	C mm	D mm
50.00	11.00	36.00	M8
60.00	20.00	37.00	M8
81.00	30.00	35.00	M8
98.80	40.00	47.00	M8
50.00	15.00	37.00	M10
60.00	20.00	37.00	M10
84.50	20.00	47.00	M10
102.00	30.00	55.00	M10

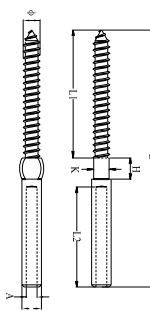
EYE TERMINAL FORGED SS304 OR SS316



Φ 1 mm	Φ 2 mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
5.50	2.70	5.50	57.50	35.00	2.60	213	850
6.30	3.30	6.50	62.30	38.70	3.80	250	1000
7.50	4.30	8.50	77.00	45.00	4.90	338	1350
9.00	5.30	10.60	89.00	53.80	5.80	625	2500
12.50	6.30	13.00	106.70	63.00	7.80	1125	4500
16.00	8.30	14.70	135.00	81.80	9.90	1675	6700
17.80	10.50	16.20	158.00	90.00	10.80	1950	7800
21.40	12.50	19.50	180.00	102.70	15.00	2250	9000
25.00	14.80	23.50	233.00	140.00	19.40	3000	12000

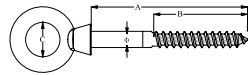
LAG SCREW/SWAGE TERMINAL LEFT OR RIGHT THREAD SS304 OR SS316

* Thread, right/left



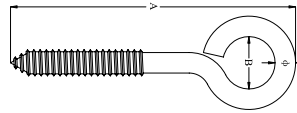
Φ mm	A mm	D mm	L mm	L1 mm	L2 mm	K mm	H mm	T*	ROPE mm
5*2.20	2.70	5.50	86.00	40.00	35.00	4.00	8.00	R	2.50
6*2.60	3.30	6.30	97.00	48.00	38.00	5.00	8.00	R	3.20
8*3.50	4.30	7.50	115.00	54.00	45.00	6.00	10.00	R	4.00
10*4.50	5.30	9.00	128.00	61.00	52.00	7.00	10.00	R	5.00
12*5.00	6.30	12.50	162.00	79.00	63.00	10.00	10.00	R	6.00
6*2.60	3.30	6.30	97.00	48.00	38.00	5.00	8.00	L	3.20
8*3.50	4.30	7.50	115.00	54.00	45.00	6.00	10.00	L	4.00
6*2.60	3.30	6.30	91.00	42.00	38.00	5.00	8.00	R	3.20
6*2.60	3.30	6.30	91.00	42.00	38.00	5.00	8.00	L	3.20

EYE LAG SCREW SS304 OR SS316



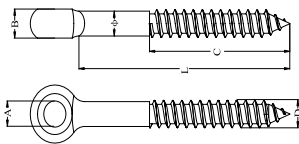
ϕ mm	A mm	B mm	C mm
6.00	40.00	24.00	14.00
6.00	60.00	36.00	14.00
6.00	80.00	48.00	14.00
6.00	100.00	60.00	14.00
8.00	62.00	36.00	18.40
8.00	81.00	48.00	18.40
8.00	102.00	60.00	18.00
10.00	63.00	36.00	22.20
10.00	83.00	48.00	23.00
10.00	98.00	60.00	22.00
10.00	120.00	70.00	22.00
12.00	80.00	48.00	27.00
12.00	106.00	60.00	27.00
12.00	122.50	72.00	27.30
12.00	140.00	84.00	27.00
12.00	160.00	96.00	27.00

LAG EYE SCREW SS304 OR SS316



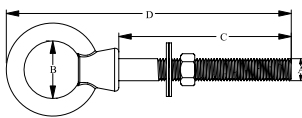
ϕ mm	A mm	B mm
5.76	100.00	14.00
7.80	109.00	20.00
9.25	124.00	30.00
5.76	62.00	16.00
7.80	84.50	20.00

LAG EYE SCREW FORGED SS304 OR SS316



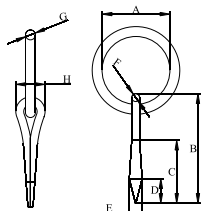
ϕ mm	A mm	B mm	C mm	D mm	L mm
4.0	4.30	4.60	30.00	3.80	45.00
5.6~6	6.30	7.00	30.00	6.00	40.00
5.6~6	6.30	7.00	35.00	6.00	50.00
5.6~6	6.30	7.00	40.00	6.00	55.00
5.6~6	6.30	7.00	40.00	6.00	60.00
6.00	6.50	6.00	44.00	6.00	55.00
7.6~8	8.40	9.00	40.00	8.00	60.00
7.6~8	8.40	9.00	50.00	8.00	75.00
7.6~8	8.40	9.00	55.00	8.00	80.00
7.6~8	8.40	9.00	65.00	8.00	100.00
9.6~10	10.20	11.00	50.00	10.00	75.00
9.6~10	10.20	11.00	55.00	10.00	80.00
9.6~10	10.20	11.00	60.00	10.00	85.00
9.6~10	10.20	11.00	65.00	10.00	100.00
9.6~10	10.20	11.00	80.00	10.00	120.00
11.6~12	12.10	13.00	65.00	12.00	100.00
11.6~12	12.10	13.00	80.00	12.00	120.00

LIFTING EYE BOLT WITH WASHER AND NUT SS304 OR SS316



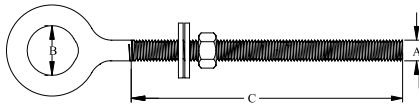
A mm	B mm	C mm	D mm	SWL kgs	BL kgs
M6	16.20	39.50	71.00	275	1100
M6	16.20	60.00	91.60	275	1100
M6	16.40	80.00	111.00	275	1100
M8	20.60	80.00	118.30	325	1300
M8	20.60	100.00	140.00	325	1300
M10	25.60	100.00	148.80	650	2600
M10	25.80	120.00	170.00	650	2600
M12	30.20	100.00	160.00	850	3400
M12	30.20	120.00	180.00	850	3400
M12	30.20	150.00	200.00	850	3400

RING NAIL SS304 OR SS316



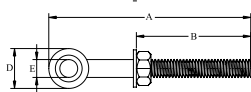
A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
25.00	47.60	33.00	6.00	4.80	2.90	2.90	9.90
30.00	47.50	32.00	6.50	4.80	2.90	3.90	10.00
35.00	59.00	34.50	8.50	6.50	4.00	5.00	13.80
40.00	58.80	37.00	13.50	8.40	4.80	5.80	15.80
45.00	64.50	39.00	10.50	10.30	6.00	7.80	19.80

**EYE BOLT
WITH DOUBLE WASHERS AND NUT
SS304 OR SS316**



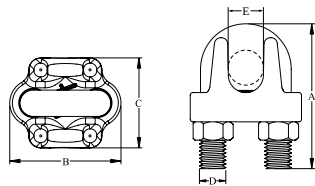
A mm	B mm	C mm	SWL kgs	BL kgs
M6	13.00	40.00	250	1000
M6	13.00	60.00	250	1000
M6	13.00	80.00	250	1000
M6	13.00	100.00	250	1000
M8	17.00	60.00	450	1800
M8	17.00	80.00	450	1800
M8	17.00	100.00	600	2400
M8	17.00	130.00	450	1800
M10	21.00	60.00	600	2400
M10	21.00	80.00	600	2400
M10	21.00	100.00	875	3500
M10	21.00	120.00	600	2400
M10	21.00	150.00	600	2400
M12	25.00	80.00	875	3500
M12	25.00	100.00	875	3500
M12	25.00	120.00	875	3500
M12	25.00	150.00	875	3500

**FORGED EYE BOLT WITH WASHER
& NUT SS304 OR SS316**



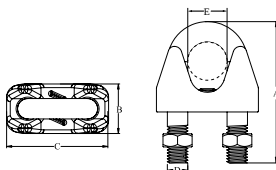
A mm	B mm	C mm	D mm	E mm	F mm
67.80	37.00	7.20	13.80	6.00	M6

**WIRE ROPE CLIP
SS304 OR SS316**



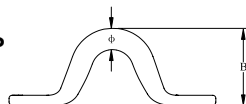
A mm	B mm	C mm	D mm	E mm
18.00	15.30	13.00	M3	2.0
24.50	15.80	14.50	M4	3.0
24.00	18.50	18.00	M4	4.0
29.00	23.00	19.60	M5	5.0
31.00	26.30	20.50	M6	6.0
41.00	33.50	27.00	M8	8.0
52.00	42.70	33.80	M10	10.0
61.00	50.00	37.80	M12	12.0
67.50	50.60	42.00	M12	14.0
76.00	60.00	47.00	M14	16.0
79.00	61.50	51.00	M14	19.0
103.00	72.80	61.00	M16	22.0
110.00	72.50	60.00	M16	25.0

**WIRE ROPE CLIP
(LIGHT TYPE)
SS304 OR SS316**



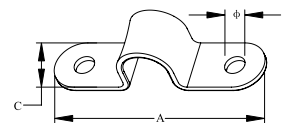
A mm	B mm	C mm	D mm	E mm
21.30	10.00	17.00	M3	2.0
21.20	10.00	17.70	M3	3.0
24.00	11.00	21.30	M4	4.0
28.50	12.70	24.60	M6	5.0
31.80	15.80	27.50	M6	6.0
37.00	17.50	30.50	M6	8.0
45.80	19.50	37.00	M8	10.0
56.40	24.00	45.80	M10	13.0
66.80	25.00	49.80	M12	16.0
77.50	29.50	53.80	M12	19.0
86.50	31.30	63.00	M12	22.0

**SADDLE/ EYE STRAP
SS304 OR SS316**



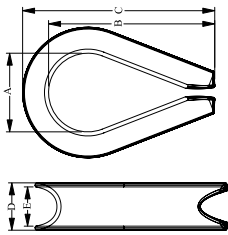
φ mm	A mm	B mm	C mm
4.00	3.20	15.80	32.00
5.00	4.30	18.00	40.00
6.00	5.30	22.00	44.00
8.00	5.20	23.00	51.00
10.00	8.40	27.80	62.00

**SADDLE/ FLAT EYE STRAP
(TWO HOLE TYPE)
SS304 OR SS316**



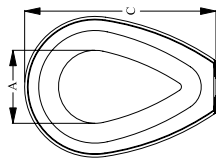
φ mm	A mm	B mm	C mm
4.00	42.50	10.00	11.00
4.00	46.50	14.50	11.00
4.20	48.50	17.00	11.00

**THIMBLE
SS304 OR SS316**



A mm	B mm	C mm	D mm	E mm	WIRE mm
7.50	18.00	20.60	4.50	3.00	2.0
10.00	21.00	24.30	6.00	4.30	3.0
11.00	24.80	27.80	6.60	5.20	4.0
13.00	26.00	30.50	8.50	6.80	5.0
15.50	32.60	37.00	10.00	8.80	6.0
23.00	45.50	51.50	12.50	10.00	8.0
27.00	50.00	56.40	14.60	12.00	10.0
32.50	61.00	68.00	18.00	14.50	12.0
30.60	60.00	68.70	19.50	15.50	14.0
37.50	75.00	82.70	22.00	19.00	16.0
38.00	71.00	80.60	23.00	19.50	18.0
45.50	93.50	104.80	27.80	24.00	20.0
45.50	98.00	112.00	29.60	25.70	22.0
52.00	110.00	124.50	34.00	29.50	24.0

**THIMBLE
CAST WITH CLOSED END
SS304 OR SS316**



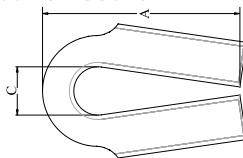
A mm	B mm	C mm	D mm	WIRE mm
10.50	5.70	25.00	3.00	2.0
14.00	7.00	32.00	3.60	3.0
17.00	9.00	42.50	8.00	6.0
24.50	12.80	58.00	8.80	8.0
28.30	13.60	67.50	10.30	10.0
36.50	16.30	85.50	12.00	12.0
46.80	22.30	109.50	15.00	14.0

**THIMBLE SHEET
CAST WITH CLOSED END
SS304 OR SS316**



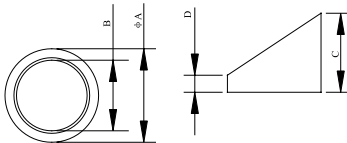
A mm	B mm	C mm	D mm	E mm
36.00	6.90	8.30	3.60	14.50
47.00	10.70	10.00	4.20	18.90
53.00	13.50	11.00	4.40	26.80
60.50	14.70	13.30	5.20	27.70
72.00	19.20	15.50	6.90	34.00

**WIRE ROPE THIMBLE
SS304 OR SS316**



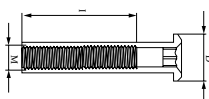
A mm	B mm	C mm	D mm
80.00	12.70	21.00	10.50
100.00	15.00	23.50	14.00
118.00	21.00	28.00	16.00
147.00	27.00	36.00	20.00
182.00	33.00	47.00	19.00

CABLE PIVOT SS304 OR SS316



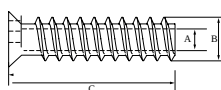
φ A mm	B mm	C mm	D mm
13.00	6.10	10.70	2.00
13.00	8.20	10.70	2.00

HEX SOCKET TENSIONER SS304 OR SS316



A mm	B mm	C mm	D mm	H mm	I mm	M mm
42.50	2.00	8.00	12.50	5.00	30.00	M5
42.50	2.00	8.00	12.50	5.00	30.00	M6

COUNTER SUNK HEX SOCKET TIMBER INSERT SS316



A mm	B mm	C mm	D mm	THREAD
M6	10.0	30.0	12.5	RIGHT
M6	10.0	30.0	12.5	LEFT

**STAINLESS STEEL WIRE SS316
SOLD IN REELS ONLY**

- Suitable for marine and premium industrial applications
- Manufactured in Korea from high quality POSCO stainless steel rods
- Highly polished finish



(7x19)



(7x7)



(1x19)

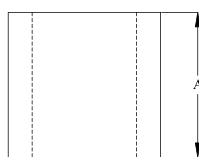
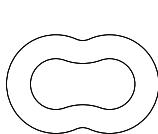
Size mm	M/Reel	Breaking Strength (min) Kgs
M1.6 (1x19)	305	214
M2.0 (1x19)	305	335
M2.5 (1x19)	305	525
M3.2 (1x19)	305	849
M3.2 (1x19)	1000	849
M4.0 (1x19)	305	1339
M5.0 (1x19)	305	2098
M6.0 (1x19)	305	2876
M2.0 (7x19)	305	250
M2.5 (7x19)	305	389
M3.2 (7x19)	305	612
M4.0 (7x19)	305	959
M5.0 (7x19)	305	1489
M6.0 (7x19)	305	2149
M10.0 (7x19)	305	5966
M1.6 (7x7)	305	168
M2.0 (7x7)	305	260
M2.5 (7x7)	305	399
M3.2 (7x7)	305	665
M3.2 (7x7)	1000	665
M4.0 (7x7)	305	1039
M5.0 (7x7)	305	1619
M6.0 (7x7)	305	2328

**STAINLESS STEEL WIRE SS316
SOLD IN REELS ONLY**

- Economical industrial applications
- Grade 304 is available upon request only

Size mm	M/Reel	Breaking Strength (min) Kgs
M1.6 (1x19)	305	215
M1.6 (1x19)	1000	215
M2.0 (1x19)	305	335
M2.5 (1x19)	305	525
M3.2 (1x19)	305	860
M4.0 (1x19)	305	1345
M5.0 (1x19)	305	2100
M6.0 (1x19)	305	3025
M8.0 (1x19)	305	5380
M10.0 (1x19)	305	8030
M2.0 (7x19)	305	210
M2.5 (7x19)	305	330
M3.2 (7x19)	305	540
M4.0 (7x19)	305	850
M5.0 (7x19)	305	1330
M6.0 (7x19)	305	1910
M8.0 (7x19)	305	3400
M10.0 (7x19)	305	5310
M1.6 (7x7)	305	145
M2.0 (7x7)	305	230
M2.5 (7x7)	305	350
M3.2 (7x7)	305	580
M4.0 (7x7)	305	920
M5.0 (7x7)	305	1430
M6.0 (7x7)	305	2070
M8.0 (7x7)	305	3680
M10.0 (7x7)	305	5750

NICKEL PLATED HAND COPPER SWAGE



WIRE SIZE mm	WIRE SIZE inch	A mm
1.60	1/16"	10.50
2.00	5/64"	10.50
2.40	3/32"	11.00
3.20	1/8"	14.00
4.00	5/32"	17.00
4.80	3/16"	21.00
6.40	1/4"	25.00

RETAINING CLIP FOR FORK TERMINALS SS316



TERMINAL/SCREW SIZE mm
M5
M6

CLEVIS PIN FOR FORK TERMINALS SS316



TERMINAL/SCREW SIZE mm
M5
M6

NYLON GROMMETS (SPLIT TYPE)



SUIT WIRE ROPE mm	COLOUR	POST DRILL SIZE inch
3.2-5.0	BLACK	11/32"
3.2-5.0	GREY	11/32"

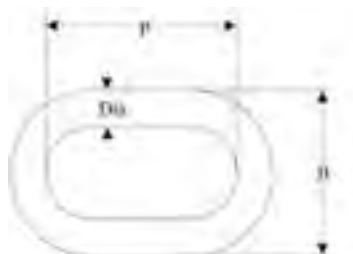
A.SHORT LINK CHAIN (DIN 766)

P mm	B mm	Wgt. KG/M	Breaking Strain
22.00	8.00	0.16	150 Kg
16.00	11.00	0.16	800 Kg
16.00	14.00	0.32	1350 Kg
18.50	17.00	0.50	1970 Kg
18.50	20.00	0.75	2880 Kg
24.00	26.00	1.35	5100 Kg
28.00	34.00	2.25	7900 Kg

* M2 IS DIN 763

B.MEDIUM LINK CHAIN

P mm	B mm	Wgt. KG/M	Breaking Strain
12.00	8.00	0.10	280 Kg
16.00	12.00	0.16	450 Kg
19.00	16.00	0.30	800 Kg
21.00	20.00	0.45	1200 Kg
24.00	24.00	0.70	1800 Kg
32.00	32.00	1.30	3200 Kg
40.00	40.00	2.00	5000 Kg
48.00	48.00	2.90	7200 Kg

**SPRING HOOK
SS304 OR SS316**

ϕ mm	A mm	B mm	C mm	SWL kgs	BL kgs
6.00	60.00	34.50	12.50	188	750
8.00	80.00	46.00	17.00	438	1750
10.00	100.00	55.00	23.50	563	2250
12.00	122.50	72.00	28.00	913	3650

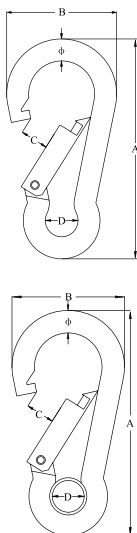
**SPRING HOOK CAST
SS304 OR SS316**

ϕ mm	A mm	B mm	C mm
6.00	60.00	34.50	12.50
8.00	80.00	46.00	17.00
14.00	143.00	85.50	20.00
16.00	165.00	98.00	25.00

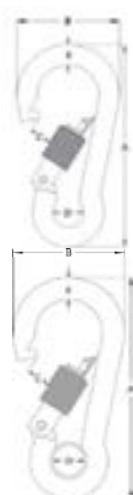
**SPRING HOOK
SS304 OR SS316**

ϕ mm	A mm	B mm	C mm	SWL kgs	BL kgs
6.00	60.00	30.00	8.00	68	272
8.00	80.00	40.00	11.50	127	508
10.00	100.00	50.00	13.50	182	728
11.00	120.00	60.00	16.00	204	816

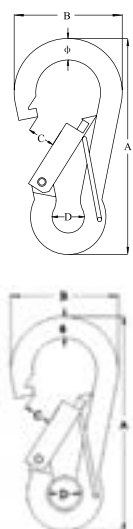


**SPRING HOOK
SS304 OR SS316****SPRING HOOK WITH EYE
SS304 OR SS316**

φ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
4.50	42.00	20.50	6.00	6.50	45	180
5.00	50.00	26.50	7.00	8.00	55	220
6.00	60.00	30.00	7.50	8.50	68	272
7.00	70.00	35.00	9.00	9.50	91	364
8.00	80.00	40.50	10.00	12.00	127	508
9.00	90.00	45.00	10.50	12.80	150	600
10.00	100.00	50.00	12.00	15.00	182	728
11.00	120.00	58.00	16.00	19.00	204	816
12.00	140.00	64.00	21.00	22.00	227	908
13.00	160.00	72.00	24.00	22.00	250	1000

**SPRING HOOK WITH LOCKING NUT
SS304 OR SS316****SPRING HOOK WITH LOCKING NUT AND EYE
SS304 OR SS316**

φ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
6.00	60.00	30.00	6.50	8.50	114	456
7.00	70.00	35.00	7.50	9.50	145	580
8.00	80.00	40.50	8.50	12.00	182	728
9.00	90.00	45.00	9.00	12.80	225	900
10.00	100.00	50.00	10.00	15.00	273	1092
11.00	120.00	58.00	14.50	19.00	315	1260
12.00	140.00	64.00	19.00	22.00	365	1460

**LOCK SPRING HOOK
SAFETY LATCH
SS304 OR SS316****LOCK SPRING HOOK WITH EYE SAFETY LATCH
SS304 OR SS316**

φ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
5.00	50.00	26.50	7.00	8.00	55	220
6.00	60.00	30.00	7.50	8.50	68	272
7.00	70.00	35.00	9.00	9.50	91	364
8.00	80.00	40.50	10.00	12.00	127	508
9.00	90.00	45.00	10.50	12.80	150	600
10.00	100.00	50.00	12.00	15.00	182	728
11.00	120.00	58.00	16.00	19.00	204	816
12.00	140.00	64.00	21.00	22.00	227	908
13.00	160.00	72.00	24.00	22.00	250	1000

**SNAP S-HOOK
SS304 OR SS316**

φ mm	A mm	B mm	C mm	D mm
5.00	57.80	10.30	9.00	4.00
6.00	64.00	9.70	8.00	3.00
8.00	74.00	16.30	15.00	4.00
9.00	86.00	18.00	18.00	8.50
10.00	95.00	20.00	18.00	8.50

**S-HOOK (OPEN END AND NARROW END)
SS304 OR SS316**

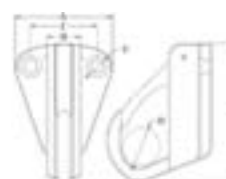
φ mm	A mm	B mm	C mm	D mm
5.00	51.00	10.30	10.80	3.50
6.00	64.50	11.00	12.00	5.00
8.00	75.00	16.00	17.00	4.50
9.00	84.00	18.00	19.00	7.60
9.50	95.00	20.80	21.00	8.80

**S-HOOK
SS304 OR SS316**

φ mm	A mm	B1 mm	B2 mm	R1 mm	R2 mm
3.00	36.00	7.50	14.00	4.50	8.00
4.00	44.00	10.50	14.50	6.00	9.50
5.00	53.00	12.50	16.00	7.00	10.50
6.00	62.00	12.50	18.00	7.50	12.50
8.00	83.00	14.00	23.00	10.00	16.50
10.00	105.00	17.50	34.00	12.50	20.50

**SPRING FENDER HOOK
SS304 OR SS316**

A mm	B mm	C mm	D mm	E mm	F mm
32.80	11.20	36.00	6.60	4.00	22.00
30.40	10.60	44.00	11.00	4.00	22.00

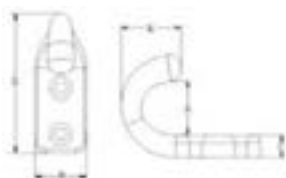
**FENDER EYE
SS304 OR SS316**

A mm	B mm	C mm
27.00	17.00	18.00

**FENDER HOOK
SS304 OR SS316**

φ mm	A mm	B mm	C mm	D mm
2.80	25.80	24.40	20.00	16.60



DECK HOOK (TYPE-EL)
SS304 OR SS316

A mm	B mm	C mm	D mm	E mm
16.50	13.00	5.90	40.00	17.00

DECK HOOK (TYPE-33)
SS304 OR SS316

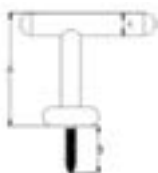
A mm	B mm	C mm
17.60	5.00	10.00

DECK HOOK (TYPE-40)
SS304 OR SS316

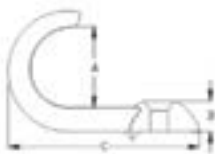
A mm	B mm	C mm	D mm	E mm
38.20	30.80	4.70	10.00	5.20

DECK HOOK (TYPE-43)
SS304 OR SS316

A mm	B mm	C mm	D mm
6.20	31.00	10.20	3.60

DECK HOOK (TYPE-45)
SS304 OR SS316

φ mm	A mm	B mm
7.40	40.80	21.00

DECK HOOK (TYPE-46)
SS304 OR SS316

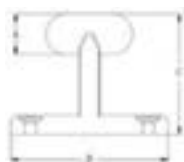
A mm	B mm	C mm
22.00	5.90	40.00

DECK HOOK (TYPE-47)
SS304 OR SS316

φ mm	A mm	B mm
8.60	25.90	21.00

DECK HOOK (TYPE-60)
SS304 OR SS316

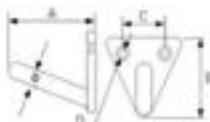
φ mm	A mm	B mm
9.80	60.00	55.00

DECK HOOK (TYPE-G)
SS304 OR SS316

A mm	B mm	C mm
12.00	47.00	35.60

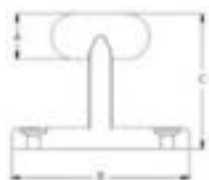
DECK HOOK (TYPE-H)
SS304 OR SS316

φ mm	A mm	B mm
9.00	6.70	30.00

DECK HOOK (TYPE-63)
SS304 OR SS316

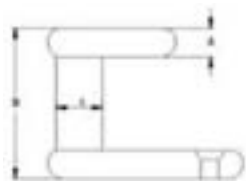
φ mm	A mm	B mm	C mm	D mm
8.00	43.30	37.30	22.00	4.00

DECK HOOK (TYPE-G)
SS304 OR SS316



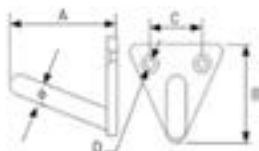
A mm	B mm	C mm
12.00	47.00	35.60

**DECK HOOK
(TYPE-H)**
SS304 OR SS316



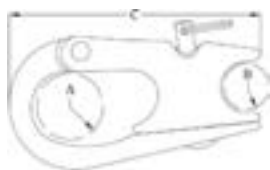
φ mm	A mm	B mm
9.00	6.70	30.00

DECK HOOK (TYPE-63)
SS304 OR SS316



φ mm	A mm	B mm	C mm	D mm
8.00	43.30	37.30	22.00	4.00

**ROPE SHEET
SNAP SHACKLE**
SS304 OR SS316



A mm	B mm	C mm
15.00	11.00	50.00
17.00	14.00	63.70
26.00	22.00	95.00

**PELICAN HOOK
(WITH LINK)**
SS304 OR SS316



SIZE inch	A mm	D mm	L mm
4"	10.00	18.00	98.50
6"	13.00	22.00	148.00

PELICAN HOOK
SS304 OR SS316



A mm	B mm	C mm	SWL kgs	BL kgs
72.60	11.00	M6	300	1200
97.00	14.00	M8	375	1500
144.80	23.00	M10	875	3500
145.60	23.00	M12	875	3500

**SPRING SNAP CAST,
EYE END**
SS304 OR SS316

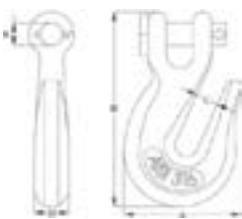


A mm	B mm	C mm	SWL kgs	BL kgs
25.00	49.50	8.00	55	220
31.00	68.80	12.50	125	500
47.00	97.00	20.00	225	900

**SPRING SNAP-CAST
(HOOK END)**
SS304 OR SS316



A mm	B mm	C mm	SWL kgs	BL kgs
25.00	9.00	49.00	60	250
29.00	8.00	52.80	75	300
32.20	7.80	60.60	80	320
34.50	8.30	65.00	85	350
48.00	10.80	89.00	175	700

**GRAB HOOK CLEVIS END
SS304 OR SS316**

ϕ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
9.00	44.00	78.00	8.80	11.00	525	2100
11.00	54.50	94.50	10.80	13.00	775	3100
12.00	64.00	106.60	12.30	18.00	1000	4000
16.00	87.00	142.00	16.00	19.00	1838	7350

**SLIP HOOK CLEVIS END
SS304 OR SS316**

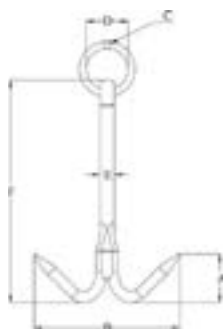
ϕ mm	A mm	B mm	C mm	D mm	E mm	F mm	SWL kgs	BL kgs
9.00	60.50	98.80	26.00	22.00	26.00	11.00	500	2000
11.00	72.00	110.00	31.50	23.35	31.30	13.00	750	3000
12.00	88.00	129.00	34.00	29.00	36.00	14.80	1000	4000
16.00	112.00	164.00	45.00	36.00	45.80	18.60	1400	5600

**SLIP HOOK (SWIVEL END WITH SAFETY LATCH)
SS304 OR SS316**

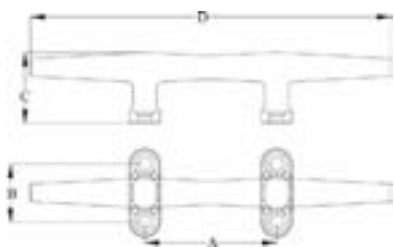
A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
22.00	22.50	6.50	21.50	117.00	425	1700
28.60	30.00	8.00	25.50	146.00	750	3000
28.00	27.50	9.30	28.80	158.00	1150	4600
35.50	34.50	12.70	36.30	201.00	1900	7600

**SLIP HOOK (EYE END WITH SAFETY LATCH)
SS304 OR SS316**

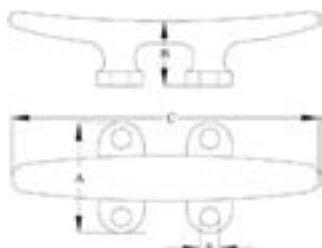
A mm	D mm	L mm	SWL kgs	BL kgs
22.00	13.30	88.30	425	1700
24.50	16.00	107.00	595	2380
26.80	18.00	123.00	850	3400

**HOOK ANCHOR
SS304 OR SS316**

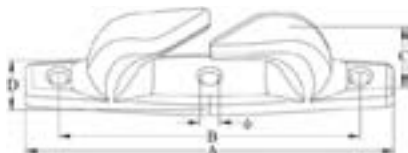
A mm	B mm	C mm	D mm	E mm	F mm
31.00	160.00	6.00	36.00	12.80	207.00
45.00	222.00	8.00	45.00	15.80	246.00

**LOW FLAT CLEAT
SS304 OR SS316**

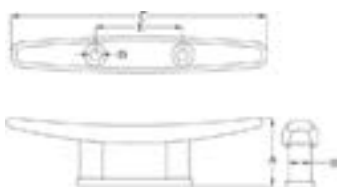
A mm	B mm	C mm	D mm
37.80	22.50	23.00	97.50
47.50	24.50	25.80	121.50
54.00	27.00	30.50	155.00
69.00	33.00	37.00	200.00
89.00	46.00	47.00	246.00
91.00	46.00	54.50	295.00

**TRIM LINE CLEAT
SS304 OR SS316**

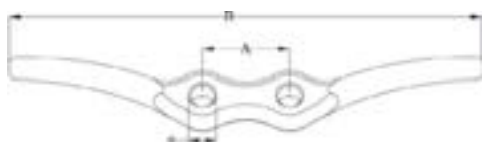
φ mm	A mm	B mm	C mm
6.20	34.50	20.80	96.80
6.00	45.00	24.00	121.00
6.00	52.00	27.50	145.00
8.00	61.30	31.00	195.00
8.00	73.30	40.00	243.00
8.00	82.00	45.50	292.00

**SKENE CHOCKS
SS304 OR SS316**

φ mm	A mm	B mm	C mm	D mm
5.00	116.00	97.50	25.60	23.00
5.00	116.00	97.50	25.60	23.00
6.00	153.50	124.50	29.50	34.50
6.00	153.60	124.50	29.50	34.50

**BLUE WATER CLEAT
SS304 OR SS316**

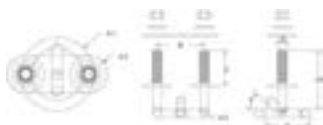
A mm	B mm	C mm	D mm	E mm
23.50	8.70	100.00	4.50	30.00
30.00	10.50	124.00	5.50	40.00
32.50	12.00	149.00	6.50	45.00
42.00	15.60	200.00	8.50	55.00
49.90	15.80	250.00	8.30	71.00
65.00	14.00	297.00	8.00	90.00

**ROPE CLEAT
SS304 OR SS316**

φ mm	A mm	B mm
4.00	10.00	68.00
5.90	20.50	114.00
6.70	23.00	150.00

HANDLE SS304 OR SS316

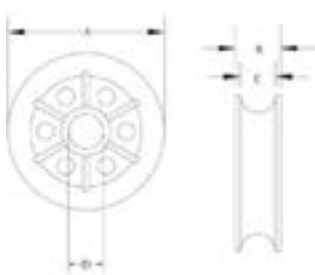
A mm	B mm	C mm	D mm	E mm	F mm	G mm
150.00	33.60	3.60	12.50	16.70	6.90	10.00

SKI TOW EYES STAINLESS STEEL SS304 OR SS316

φ 1 mm	φ 2 mm	φ 3 mm	A mm	B mm	C mm	D mm	E mm	F mm
62.80	31.80	9.50	3/8-16UNC	54.00	39.00	67.90	49.00	45°

PUMP FILTER SS304 OR SS316

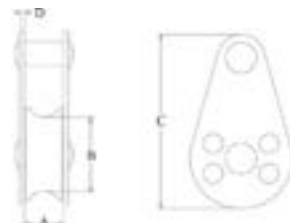
1 mm	2 mm	A mm	B mm
24.50	35.50	103.00	50.00
32.00	44.00	130.50	68.00
34.50	51.00	137.00	70.50
47.00	62.50	166.00	86.00

**WIRE ROPE SHEAVE
SS304 OR SS316**

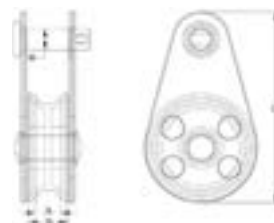
A mm	B mm	C mm	D mm
26.80	17.30	11.00	8.00
31.00	16.50	11.50	8.00
50.00	19.00	14.00	10.00
75.50	19.40	14.50	13.00
75.50	28.50	21.80	13.00
100.80	24.90	17.40	17.00
100.80	33.00	26.80	17.00
127.00	25.50	19.20	17.00

**PULLEY BLOCK- TYPE B
(PIN RIVET) NYLON SHEAVE
SS304 OR SS316**

A mm	B mm	C mm	D mm
9.60	20.00	45.20	1.20

**PULLEY BLOCK- TYPE C
(REMOVABLE PIN WITH RIVET) NYLON SHEAVE,
SS304 OR SS316**

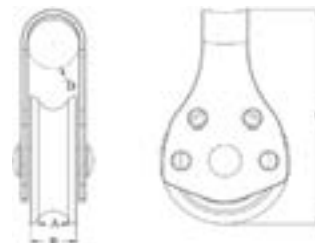
φ mm	A mm	B mm	C mm
4.90	7.00	9.00	45.00

**PULLEY BLOCK- TYPE D
(WITH BRACKET AND PIN RIVET) NYLON SHEAVE,
SS304 OR SS316**

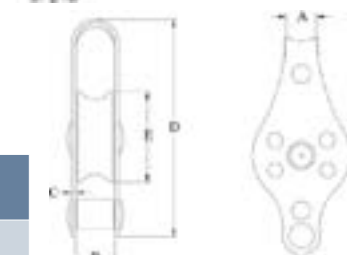
φ mm	A mm	B mm	C mm	D mm
5.00	6.80	9.00	6.80	10.00

**PULLEY BLOCK- TYPE A
(PIN RIVET) NYLON SHEAVE
SS304 OR SS316**

A mm	B mm	C mm	D mm
6.70	9.00	43.50	10.00

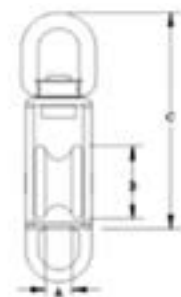
**PULLEY BLOCK- TYPE F
(WITH PIN RIVET AND BRACKET) NYLON SHEAVE,
SS304 OR SS316**

A mm	B mm	C mm	D mm	E mm
8.80	10.30	1.20	59.30	25.00

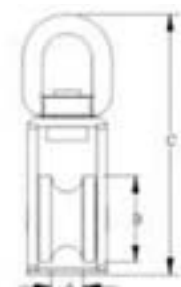


**MAME SWIVEL BLOCK
(STAINLESS CAST SHEAVE WITH EYE END),
SS304 OR SS316**

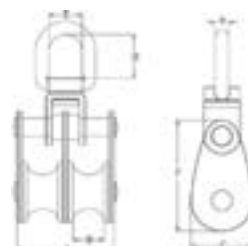
A mm	B mm	C mm	SWL kgs	BL kgs
10.50	27.00	80.00	375	1500
12.00	32.00	121.00	425	1800
14.20	50.50	127.00	700	3500


**MAME SWIVEL BLOCK (NYLON SHEAVE)
SS304 OR SS316**

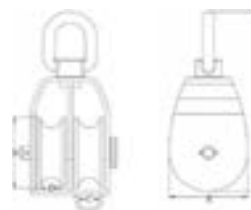
A mm	B mm	C mm	PIN
10.00	25.00	79.00	WELDED
11.00	32.00	95.00	WELDED
14.80	49.70	128.00	REMOVABLE SPLIT PIN


**MAME SWIVEL BLOCK (DOUBLE CAST SHEAVE)
SS304 OR SS316**

φ mm	A mm	B mm	C mm	D mm	E mm	F mm	SWL kgs	BL kgs
5.00	37.80	10.00	27.00	17.00	13.00	49.00	238	950
6.00	38.00	10.20	35.00	20.00	15.00	60.00	238	950
8.00	51.30	15.20	54.00	26.00	20.90	85.00	700	2800


**MAME SWIVEL BLOCK
(DOUBLE CAST SHEAVE WITH EYE END),
SS304 OR SS316**

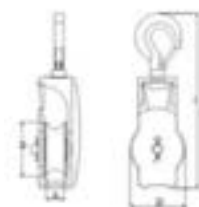
A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
81.00	25.00	11.80	14.00	30.00	500	2000
95.00	32.00	11.80	14.00	35.60	575	2300
129.00	50.00	15.00	15.30	54.00	850	3400


**SEINE BLOCK (EYE TOP)
SS304 OR SS316**

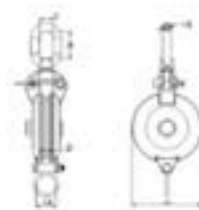
A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
14.00	50.00	19.00	27.50	155.00	875	3500
15.00	75.00	24.00	40.50	222.00	1375	5500


**SEINE BLOCK (HOOK TOP)
SS304 OR SS316**

A mm	B mm	C mm	D mm	SWL kgs	BL kgs
15.00	75.00	270.00	75.00	575	2300

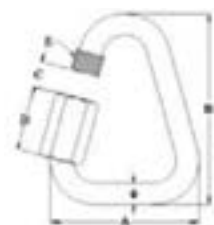

**RATED SNATCH BLOCK FOR ROPE
SS304 OR SS316**

A mm	B mm	C mm	D mm	E mm	F mm	TYPE R/V
111.60	49.90	24.00	21.60	12.50	20.50	ROPE
138.00	52.00	26.90	22.80	14.00	31.30	ROPE
174.60	53.00	29.00	34.90	18.80	31.00	ROPE



**QUICK LINK WIDE JAW
SS304 OR SS316**

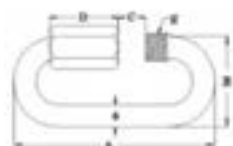
Φ mm	A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
3.50	46.00	17.75	10.00	16.00	M5x0.90	200	1000
4.00	53.00	20.50	11.50	19.00	M6x1.00	250	1250
5.00	62.00	24.00	13.00	22.00	M7x1.00	400	2000
6.00	70.50	28.00	14.50	25.00	M9x1.25	580	2900
7.00	79.00	31.50	16.00	28.00	M10x1.25	800	4000
8.00	88.00	35.00	17.50	31.50	M11x1.25	980	4900
9.00	95.00	38.50	19.00	33.00	M12x1.25	1250	6250
10.00	105.50	42.00	20.50	36.00	M13x1.25	1600	8000
12.00	124.00	49.00	23.50	43.00	M15x1.50	2200	11000
14.00	142.00	56.00	26.50	49.00	M17x1.50	3100	15500
16.00	161.00	63.00	29.50	54.00	M19x1.50	4000	20000
18.00	176.50	70.50	32.50	62.00	M22x1.50	4900	24500

**DELTA SHAPE
QUICK LINK
SS304 OR SS316**

Φ mm	A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
3.50	31.00	36.00	5.00	12.00	M5x0.90	150	750
4.00	35.00	40.00	6.00	13.00	M6x1.00	200	1000
5.00	40.00	48.00	7.00	17.00	M7x1.00	325	1650
6.00	47.00	56.00	8.00	20.00	M9x1.25	450	2250
7.00	51.00	63.00	9.00	22.50	M10x1.25	625	3125
8.00	56.00	73.00	10.00	24.00	M11x1.25	770	3850
9.00	60.00	78.00	11.00	27.00	M12x1.25	980	4900
10.00	66.00	87.00	12.00	30.00	M13x1.25	1250	6250
12.00	75.00	104.00	15.00	33.00	M15x1.50	1750	8750
14.00	85.00	123.00	17.00	38.50	M17x1.50	2450	12250
16.00	93.00	138.00	19.00	45.00	M19x1.50	3150	15750
18.00	102.00	155.00	23.00	52.00	M22x1.50	4200	21000

**QUICK LINK
SS304 OR SS316**

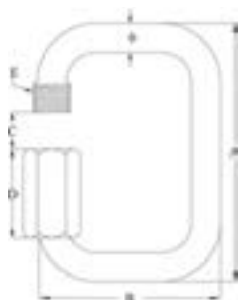
Φ mm	A mm	B mm	C mm	D mm	E mm
3.00	35.00	16.50	6.00	12.00	M3.50x0.60
4.00	43.00	18.50	7.00	14.00	M4.50x0.75
5.00	52.00	22.50	8.50	18.00	M5.50x1.00
6.00	61.50	27.00	9.50	21.00	M6.50x1.00
8.00	77.00	35.50	11.00	25.00	M9.00x1.25
10.00	89.00	42.00	13.50	28.00	M10.50x1.25

**QUICK LINK
SS304 OR SS316**

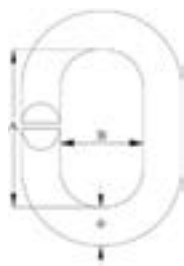
Φ mm	A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
3.50	36.00	17.00	5.00	12.00	M5x1.90	220	1100
4.00	39.50	19.50	6.00	14.00	M6x1.00	280	1400
5.00	49.50	23.00	7.00	17.00	M7x1.00	450	2250
6.00	57.00	26.50	8.00	20.00	M9x1.25	650	3250
7.00	66.00	30.00	9.00	22.50	M10x1.25	900	4500
8.00	74.00	33.50	10.00	24.00	M11x1.25	1100	5500
9.00	80.00	37.00	11.00	27.00	M12x1.25	1400	7000
10.00	89.00	40.50	12.00	30.00	M13x1.25	1800	9000
12.00	104.50	47.50	14.00	34.00	M15x1.50	2500	12500
14.00	121.00	54.50	17.00	38.50	M17x1.50	3500	17500
16.00	140.00	61.50	19.00	45.00	M19x1.50	4500	22500
18.00	157.00	68.50	23.00	52.00	M22x1.50	5400	27000

**PEAR SHAPE QUICK LINK
SS304 OR SS316**


ϕ mm	A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
3.50	27.50	53.00	10.00	16.00	M5x0.90	130	650
4.00	32.00	61.00	11.50	19.00	M6x1.00	170	850
5.00	37.00	70.50	13.00	22.00	M7x1.00	270	1350
6.00	42.50	82.50	14.50	25.00	M9x1.25	400	2000
7.00	48.00	90.50	16.00	28.00	M10x1.25	550	2750
8.00	53.00	100.00	17.50	31.50	M11x1.25	660	3300
9.00	58.00	108.00	19.00	33.00	M12x1.25	840	4200
10.00	63.50	118.00	20.50	36.00	M13x1.25	1100	5500
12.00	76.00	144.00	23.50	43.00	M15x1.50	1500	7500
14.00	85.00	157.60	26.50	49.00	M17x1.50	2100	10500
16.00	95.50	176.50	29.50	54.00	M19x1.50	2700	13500

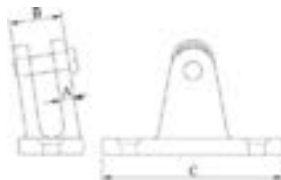
**SQUARE SHAPE QUICK LINK
SS304 OR SS316**


ϕ mm	A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
3.50	34.50	29.00	5.00	12.00	M5x0.90	150	750
4.00	39.50	33.00	5.50	14.00	M6x1.00	200	1000
5.00	47.50	38.00	6.50	17.00	M7x1.00	325	1625
6.00	55.00	43.00	7.50	20.00	M9x1.25	450	2250
7.00	63.50	48.00	8.50	22.50	M10x1.25	625	3125
8.00	71.00	53.00	10.00	24.00	M11x1.25	770	3850
9.00	78.00	58.00	11.00	27.00	M12x1.25	980	4900
10.00	88.50	63.00	12.00	30.00	M13x1.25	1250	6250
12.00	102.00	74.00	15.00	34.00	M15x1.50	1750	8750
14.00	117.00	85.00	17.00	38.50	M17x1.50	2100	10500
16.00	135.00	96.00	19.00	45.00	M19x1.50	2700	13500

**C-LINK
SS304 OR SS316**


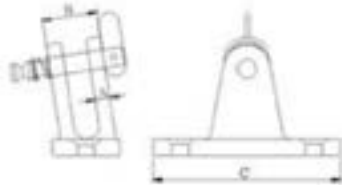
ϕ mm	A mm	B mm
5.00	20.00	8.00
6.00	24.00	9.00
8.30	32.80	12.00
8.80	36.40	14.00
9.60	41.70	16.70
10.70	45.60	17.50
12.80	52.00	20.50
15.80	64.00	24.00
18.80	76.50	27.80
21.20	88.50	33.30
25.00	100.00	37.00

**DECK HINGE
(ANGLED SIDE MOUNT)
SS304 OR SS316**



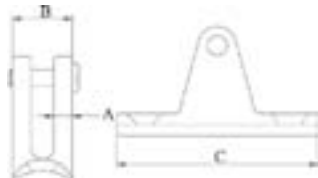
A mm	B mm	C mm
4.20	16.20	55.60

**DECK HINGE
(ANGLED SIDE MOUNT
WITH REMOVABLE PIN)
SS304 OR SS316**



A mm	B mm	C mm
4.20	16.20	55.60

**DECK HINGE
(RAIL MOUNT)
SS304 OR SS316**



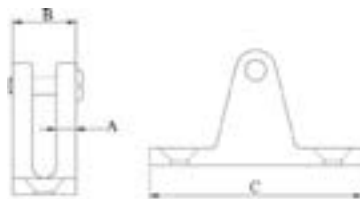
TUBE inch	A mm	B mm	C mm
7/8"	4.40	16.90	56.60

**DECK HINGE
(RAIL MOUNT
WITH REMOVABLE PIN)
SS304 OR SS316**



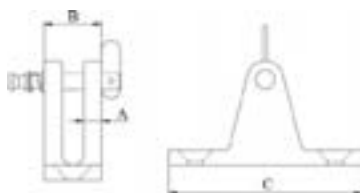
TUBE inch	A mm	B mm	C mm
7/8"	4.40	16.90	56.60

**90° DECK HINGE
SS304 OR SS316**



A mm	B mm	C mm
4.20	16.50	55.40

**DECK HINGE WITH
REMOVABLE PIN
SS304 OR SS316**



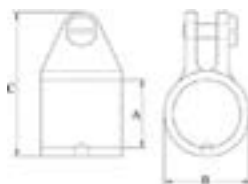
A mm	B mm	C mm
5.70	18.50	62.40

**DECK HINGE
SS304 OR SS316**



φ mm	A mm	B mm	C mm	D mm
6.10	49.50	22.00	4.70	17.20

**RAIL FITTING (TOP SLIDE CAP)
SS304 OR SS316**



TUBE inch	A mm	B mm	C mm
3/4"	20.30	25.00	45.00
7/8"	23.00	28.00	55.00
1"	26.30	33.50	57.00

**RAIL FITTING (TOP CAP)
SS304 OR SS316**



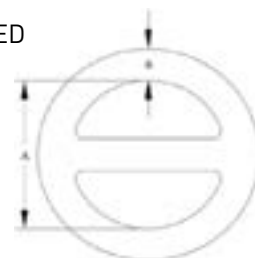
TUBE inch	A mm	B mm	C mm
3/4"	6.50	20.00	53.80
7/8"	7.80	23.20	59.00
1"	7.80	26.50	59.30

ROUND RING WELDED SS304 OR SS316



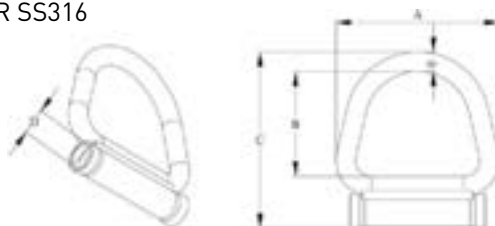
ϕ mm	A mm	SWL kgs	BL kgs
3.00	15.00	162	650
3.00	20.00	162	650
3.00	25.00	162	650
4.00	20.00	250	1000
4.00	25.00	250	1000
4.00	30.00	250	1000
4.00	35.00	250	1000
4.00	40.00	250	1000
5.00	20.00	500	2000
5.00	25.00	500	2000
5.00	30.00	500	2000
5.00	35.00	500	2000
5.00	40.00	500	2000
5.00	60.00	500	2000
5.00	65.00	500	2000
6.00	25.00	675	2700
6.00	30.00	675	2700
6.00	35.00	675	2700
6.00	40.00	675	2700
6.00	45.00	675	2700
6.00	50.00	675	2700
8.00	40.00	1250	5000
8.00	45.00	1250	5000
8.00	50.00	1250	5000
8.00	55.00	1250	5000
8.00	60.00	1250	5000
8.00	65.00	1250	5000
8.00	70.00	1250	5000
8.00	75.00	1250	5000
8.00	80.00	1250	5000
8.00	90.00	1250	5000
8.00	100.00	1250	5000
10.00	40.00	2125	8500
10.00	50.00	2125	8500
10.00	75.00	2125	8500
10.00	80.00	2125	8500
10.00	90.00	2125	8500
10.00	100.00	2125	8500
12.00	80.00	2500	10000
12.00	90.00	2500	10000
12.00	100.00	2500	10000
12.00	110.00	2500	10000
12.00	120.00	2500	10000

ROUND RING (CENTRE CROSS BAR) WELDED SS304 OR SS316



ϕ mm	A mm	SWL kgs	BL kgs
6.00	30.00	675	2700
6.00	40.00	675	2700
8.00	40.00	1250	5000
8.00	50.00	1250	5000
9.00	60.00	1550	6200
10.00	60.00	2125	8500
10.00	70.00	2125	8500
10.00	80.00	2125	8500
12.00	80.00	2500	10000

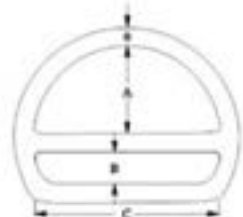
WIRE SUPPORT D-RING SS304 OR SS316



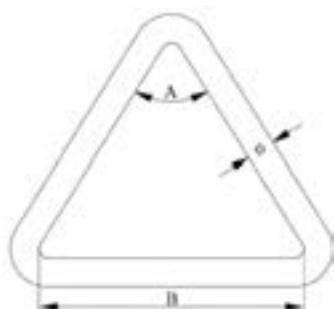
ϕ mm	A mm	B mm	C mm	D mm
8.00	66.00	43.00	71.00	10.00

DEE RING WELDED
SS304 OR SS316

φ mm	A mm	B mm	SWL kgs	BL kgs
3.00	22.00	26.00	150	600
4.00	22.00	37.00	200	800
4.00	25.00	30.00	200	800
5.00	22.00	26.00	250	1000
5.00	25.00	30.00	250	1000
5.00	35.00	40.00	250	1000
5.00	43.00	51.00	250	1000
5.00	51.00	60.00	250	1000
6.00	25.00	30.00	450	1800
6.00	30.00	35.00	450	1800
6.00	34.00	39.00	450	1800
6.00	43.00	51.00	450	1800
6.00	51.00	60.00	450	1800
8.00	43.00	51.00	700	2800
8.00	68.00	80.00	700	2800
10.00	47.00	50.00	1250	5000
10.00	77.00	80.00	1250	5000
10.00	97.00	100.00	1250	5000

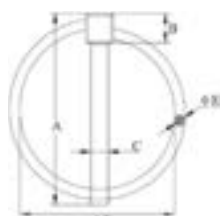
DOUBLE LAYER
DEE RING WELDED
SS304 OR SS316

φ mm	A mm	B mm	C mm	SWL kgs	BL kgs
5.00	25.00	10.00	45.00	250	1000
6.00	25.00	10.00	45.00	450	1800
6.00	28.00	10.00	50.00	450	1800
8.00	25.00	10.00	45.00	700	2800
8.00	28.00	10.00	50.00	700	2800

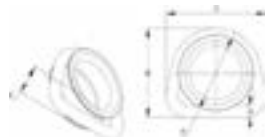
TRIANGLE RING WELDED
SS304 OR SS316

φ mm	A mm	B mm	SWL kgs	BL kgs
4.00	60°	30.00	150	600
5.00	60°	20.00	225	900
5.00	60°	30.00	325	1300
5.00	60°	40.00	325	1300
5.00	60°	44.00	325	1300
6.00	60°	39.50	500	2000
6.00	60°	45.00	500	2000
6.00	60°	50.80	500	2000
8.00	60°	45.50	700	2800
8.00	60°	50.00	700	2800

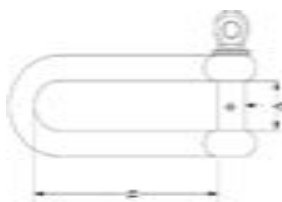
LINCH PIN SS304 OR SS316



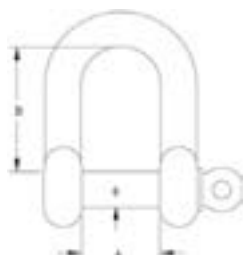
A mm	B mm	C mm	φ E mm	φ F mm
47.90	7.20	4.20	2.50	37.80
55.90	7.60	6.00	3.20	40.50
56.40	8.60	7.50	3.20	41.40
56.80	10.70	10.60	3.20	44.00

DEE RING THIMBLE
SS304 OR SS316

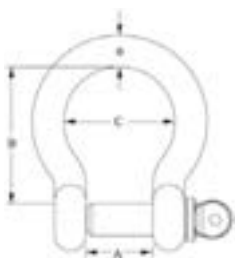
ϕ mm	A mm	B mm	C mm	D mm
35.00	66.50	59.00	19.00	8.00

D-SHACKLE LONG TYPE
SS304 OR SS316

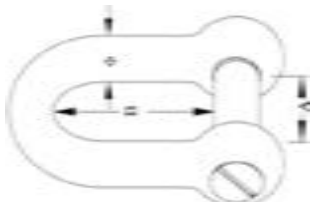
ϕ mm	A mm	B mm	SWL kgs	BL kgs
4.00	7.50	31.30	175	700
5.00	9.50	37.00	312	1250
6.00	13.50	45.30	450	1800
8.00	16.50	60.00	687	2750
10.00	20.80	75.50	821	3250
12.00	25.00	90.00	1600	6400

STANDARD D-SHACKLE
SS304 OR SS316

ϕ mm	A mm	B mm	SWL kgs	BL kgs
4.00	8.30	15.00	138	550
5.00	11.30	17.00	250	1000
6.00	12.30	21.00	425	1700
7.00	14.00	24.50	500	2000
8.00	17.00	28.60	625	2500
9.00	18.50	32.30	800	3200
10.00	20.00	35.00	1025	4100
12.00	25.00	45.50	1350	5400
13.00	27.50	50.00	1525	6100
14.00	28.00	49.00	1625	6500
16.00	32.00	56.00	2200	8800
19.00	38.50	67.00	2500	10000

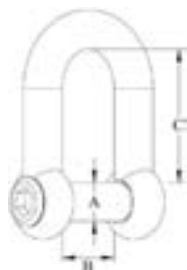
ANCHOR/BOW SHACKLE
SS304 OR SS316

ϕ mm	A mm	B mm	C mm	SWL kgs	BL kgs
4.00	8.00	20.00	13.00	138	550
5.00	10.80	23.00	17.00	300	1200
6.00	13.00	31.00	21.00	425	1700
8.00	17.50	36.50	28.00	625	2500
10.00	21.50	44.00	35.50	1075	4300
12.00	27.00	52.50	41.00	1550	6200
13.00	25.80	60.00	42.00	1585	6340
14.00	28.00	57.50	46.70	1625	6500
16.00	32.00	73.50	54.00	1750	7000
19.00	35.60	85.00	64.40	3500	14000
22.00	41.00	94.00	74.00	4250	17000
25.00	47.00	105.50	84.00	5000	20000
28.00	53.00	116.50	94.50	5750	23000

D-SHACKLE
(WITH SLOT SINK PIN)
SS304 OR SS316

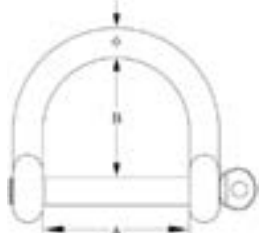
ϕ mm	A mm	B mm	SWL kgs	BL kgs
4.00	8.00	15.00	138	550
5.00	10.50	17.70	250	1000
6.00	13.00	21.00	425	1700
8.00	17.50	28.90	500	2000
10.00	20.00	35.00	625	2500
12.00	25.00	40.00	800	3200

D-SHACKLE
(WITH HEXAGONAL
SOCKET SINK PIN)
SS304 OR SS316



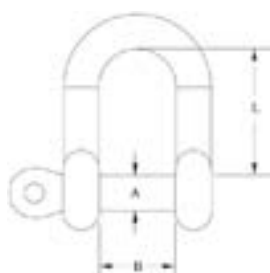
A mm	B mm	C mm	SWL kgs	BL kgs
5.00	10.00	17.50	250	1000
6.00	13.00	20.70	425	1700
8.00	16.80	27.80	625	2500
10.00	20.00	35.00	1025	4100
12.00	24.60	40.50	1350	5400
13.00	27.00	45.80	1525	6100
14.00	28.90	49.00	1625	6500
16.00	32.00	56.00	2200	8800
19.00	38.00	64.00	4000	16000
22.00	39.00	74.00	4750	19000

D-SHACKLE
WIDE TYPE
SS304 OR SS316



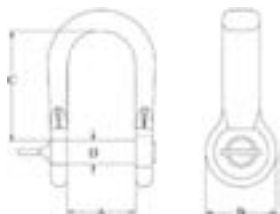
φ mm	A mm	B mm	SWL kgs	BL kgs
5.00	25.50	20.40	188	750
6.00	24.00	33.50	338	1350
8.00	28.70	31.00	625	2500
10.00	41.50	55.00	834	3350
12.00	47.60	66.00	1000	4000

D-SHACKLE
(WITH CAPTIVE PIN)
SS304 OR SS316



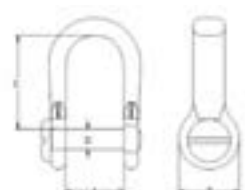
A mm	B mm	L mm	SWL kgs	BL kgs
4.00	9.00	14.80	137	550
5.00	10.40	17.80	250	1000
6.00	13.00	22.50	425	1700
7.00	14.70	24.50	500	2000
8.00	17.30	28.60	625	2500
9.00	18.90	32.00	800	3200
10.00	22.60	35.60	1025	4100
12.00	25.00	42.40	1350	5400
14.00	27.00	49.50	1625	6500
16.00	32.00	48.70	2200	8800

D-SHACKLE SEMI ROUND TYPE
SS304 OR SS316



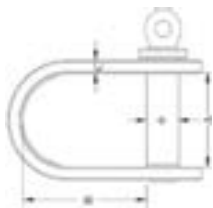
A mm	B mm	C mm	D mm	SWL kgs	BL kgs
12.00	12.00	18.50	5.00	237	950
13.00	13.00	22.00	6.00	375	1500
18.00	16.50	27.00	8.00	650	2600

D-SHACKLE SEMI ROUND TYPE
(WITH SLOT SCREW PIN)
SS304 OR SS316



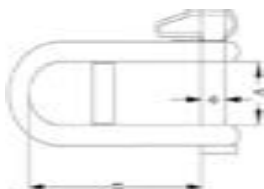
A mm	B mm	C mm	D mm	SWL kgs	BL kgs
12.00	12.00	18.50	5.00	237	950
13.00	13.00	22.00	6.00	375	1500
18.00	16.50	27.00	8.00	650	2600

STRAP-SHACKLE WITH SCREW PIN SS304 OR SS316



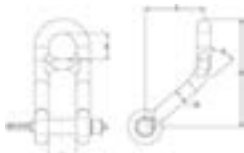
ϕ mm	A mm	B mm	C mm	SWL kgs	BL kgs
4.00	9.50	18.00	1.90	70	220
5.00	11.80	21.30	2.00	90	300
6.00	15.00	26.50	3.20	120	500
8.00	21.60	45.00	3.90	200	900

HALYARD SHACKLE (WITH CROSS BAR & LOCKING PIN) SS304 OR SS316



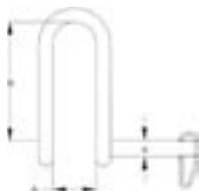
ϕ mm	A mm	B mm	SWL kgs	BL kgs
5.00	14.00	38.50	300	1200
6.00	16.50	43.50	400	1600
8.00	22.00	61.00	700	2800

HEAD BOARD SHACKLE CROSS BAR AND LOCKING PIN SS304 OR SS316



A mm	B mm	C mm	D mm	E mm	F mm	G mm	SWL kgs	BL kgs
25.00	11.80	46.50	6.00	11.70	49.00	M8	475	1900
43.50	15.00	63.00	8.00	15.40	49.00	M10	925	3700
42.50	19.50	77.30	10.00	18.70	49.00	M12	1300	5200
49.00	22.00	93.00	12.00	22.50	49.00	M14	1625	6500

HALYARD SHACKLE (WITH LOCKING PIN) SS304 OR SS316



ϕ mm	A mm	B mm	SWL kgs	BL kgs
5.00	14.00	38.50	300	1200
6.00	16.50	43.50	400	1600
8.00	22.00	61.00	700	2800

TWIST SHACKLE SS304 OR SS316



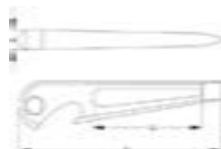
ϕ mm	A mm	B mm	SWL kgs	BL kgs
4.00	7.50	22.00	167	665
5.00	10.50	24.50	275	1100
6.00	12.00	33.50	400	1600
8.00	16.00	41.00	700	2800
10.00	20.00	46.00	1150	4600
12.00	26.70	60.00	1500	6000

SHACKLE KEY SS304 OR SS316



A mm	B mm	C mm
5.00	2.50	100.00

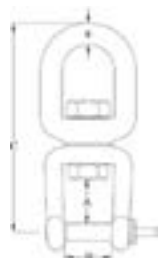
SHACKLE KEY-CAST SS304 OR SS316



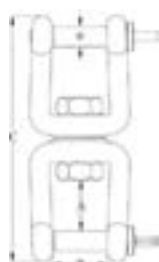
A mm	B mm	C mm
4.80	85.50	46.00

SWIVEL EYE AND EYE
SS304 OR SS316

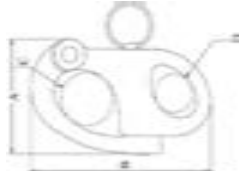
ϕ mm	A mm	B mm	C mm	SWL kgs	BL kgs
4.00	11.50	12.20	50.00	113	450
5.00	13.00	14.00	60.00	163	650
6.00	15.00	15.50	66.00	300	1200
8.00	19.00	21.50	90.00	475	1900
9.00	20.50	24.00	100.00	750	3000
10.00	23.50	26.50	112.00	875	3500
13.00	33.00	33.00	148.00	1250	5000
16.00	38.00	44.00	184.00	2125	8500
19.00	40.50	50.00	223.00	2500	10000
22.00	48.50	58.50	253.00	2875	11500
25.00	64.80	73.00	290.00	3250	13000

SWIVEL EYE AND JAW
SS304 OR SS316

ϕ mm	A mm	B mm	C mm	SWL kgs	BL kgs
6.00	11.80	13.00	65.00	300	1200
8.00	15.50	16.50	88.00	475	1900
10.00	20.50	19.00	111.80	875	3500
13.00	25.50	26.00	146.50	1250	5000
16.00	36.00	31.60	183.00	2125	8500
19.00	40.00	34.50	219.00	2500	10000

SWIVEL JAW AND JAW
SS304 OR SS316

ϕ mm	A mm	B mm	C mm	SWL kgs	BL kgs
6.00	12.00	12.00	64.40	300	1200
8.00	15.50	16.00	87.00	475	1900
10.00	20.50	18.50	111.00	875	3500
13.00	25.50	26.00	143.50	1250	5000
16.00	36.00	34.00	182.00	2125	8500
19.00	40.00	35.00	213.00	2500	10000

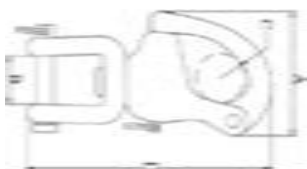
SNAP SHACKLE
FIXED EYE
SS304 OR SS316

A mm	B mm	C mm	D mm	SWL kgs	BL kgs
22.50	32.00	10.00	5.60	100	400
35.00	55.00	12.50	10.00	275	1100
45.00	70.00	20.00	15.00	500	2000
60.00	96.00	26.50	16.50	875	3500

SWIVEL EYE BOLT SNAP
SS304 OR SS316

A mm	B mm	C mm	SWL kgs	BL kgs
10.50	64.50	7.00	45	180
12.50	88.00	12.80	62	250
15.80	90.00	12.00	162	650
19.00	93.00	11.30	162	650
25.40	100.00	12.00	150	600
28.60	120.00	16.00	150	600
31.75	127.50	17.50	125	500

SNAP SHACKLE WITH CAST SWIVEL JAW SS304 OR SS316



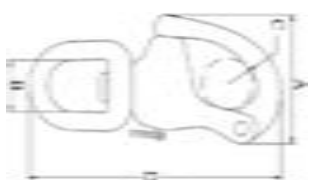
A mm	B mm	C mm	D mm	SWL kgs	BL kgs
33.00	11.00	12.00	74.00	275	1100
42.00	16.00	16.00	96.50	500	2000
58.00	20.00	22.00	127.00	875	3500

SNAP SHACKLE WITH FORGED SWIVEL JAW SS304 OR SS316



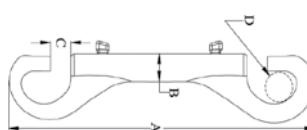
A mm	B mm	C mm	D mm	SWL kgs	BL kgs
33.00	14.50	12.00	66.50	275	1100
42.00	13.50	16.00	86.50	500	2000
58.00	24.00	22.00	122.00	875	3500

SNAP SHACKLE WITH CAST SWIVEL EYE SS304 OR SS316



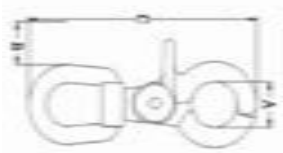
A mm	B mm	C mm	D mm	SWL kgs	BL kgs
33.00	13.00	12.00	71.00	275	1100
42.00	15.00	16.00	86.00	500	2000
58.00	20.60	22.00	122.00	875	3500

DOUBLE BOLT SNAP SS304 OR SS316



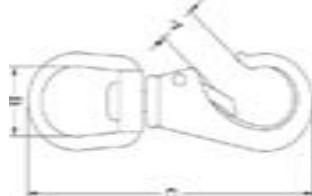
A mm	B mm	C mm	D mm	SWL kgs	BL kgs
89.30	8.90	9.50	8.50	45	180
105.00	9.20	10.20	9.00	88	350
121.80	9.50	12.50	12.00	90	360

TRIGGER SNAP (SWIVEL END) SS304 OR SS316



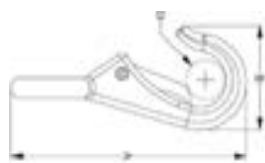
A mm	B mm	C mm	SWL kgs	BL kgs
10.50	13.00	65.00	50	200
10.50	16.00	65.00	50	200

SWIVEL EYE SNAP SS304 OR SS316



A mm	B mm	C mm	SWL kgs	BL kgs
6.60	15.30	67.30	38	150
9.80	21.50	87.50	43	170
11.50	21.90	101.00	63	250
12.00	22.30	118.50	85	340

RIGID EYE SNAP SS304 OR SS316



φ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
3.80	55.80	23.50	12.20	8.80	40	160
4.50	72.80	29.60	16.70	8.80	50	200
6.10	86.50	37.00	19.40	12.00	75	300
6.60	100.20	40.80	19.30	12.50	112	450

BULL SNAP (SWIVEL END)
 SS304 OR SS316


A mm	B mm	C mm	D mm	E mm	F mm
16.50	37.00	28.00	22.00	6.00	102.00

DOUBLE LOCKING SAFETY HOOK
 SS304 OR SS316

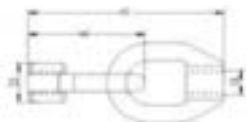

A mm	B mm	C mm	D mm	SWL mm	BL mm
62.00	20.00	19.00	106.50	388	1550

RIGID EYE SNAP HOOK WITH SAFETY LATCH
 SS304 OR SS316


A mm	B mm	C mm	D mm	SWL mm	BL mm
18.50	33.70	100.50	24.00	188	750
28.00	45.60	116.80	23.00	250	1000

LIFTING EYE NUT SS304 OR SS316


A mm	B mm	C mm	D mm	E mm	F mm	SWL kgs	BL kgs
M8	26.40	12.00	13.00	36.80	5.70	500	2000

DOUBLE EYE WITH INTERNAL THREAD
 SS304 OR SS316


A mm	B mm	C mm	D mm	E mm	F mm	G mm
62.00	26.40	12.00	13.00	36.30	5.70	M8

EYE BOLT
 SS304 OR SS316


A mm	B mm	L mm	M mm	SWL kgs	BL kgs
15.70	18.50	41.00	M6	325	1300
20.30	20.60	49.50	M8	550	2000
25.30	26.00	62.00	M10	650	2600
30.00	33.00	74.00	M12	975	3900
35.00	40.00	91.50	M16	1750	7000
40.00	44.00	103.00	M20	2500	10000
50.00	55.00	125.20	M24	3000	12000
59.50	73.20	154.00	M30	4500	18000

LIFTING EYE NUT (SUS TYPE)
 SS304 OR SS316

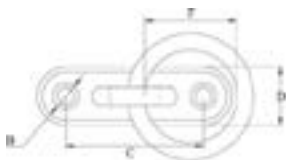

φ mm	A mm	B mm	C mm	SWL kgs	BL kgs
5.00	16.00	31.00	M6	60	240
5.80	20.00	38.50	M8	80	320
7.60	25.00	49.00	M10	150	600
8.80	30.00	60.00	M12	220	880
12.00	35.00	70.50	M16	450	1800
15.80	40.00	85.50	M20	630	2520
19.00	50.50	102.60	M24	950	3800

EYE BOLT (SUS TYPE) SS304 OR SS316



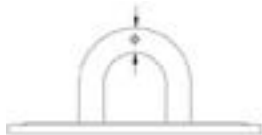
A mm	B mm	C mm	SWL kgs	BL kgs
M6	16.80	37.40	60	240
M8	20.60	47.00	80	320
M10	25.60	60.70	150	600
M12	29.70	72.30	220	880
M16	35.00	86.00	450	1800
M20	40.50	103.00	630	2520
M24	45.50	129.00	950	3800

OBLONG PAD EYE (WITH RING) SS304 OR SS316



A mm	B mm	C mm	D mm	E mm	F mm
54.00	5.00	38.00	16.00	5.00	30.50
65.00	5.20	46.00	19.00	6.00	41.30
81.00	6.30	55.00	25.70	8.00	51.00

OBLONG PAD EYE SS304 OR SS316



φ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
5.00	5.00	16.00	38.00	54.00	175	700
6.00	5.50	19.00	46.00	65.00	250	1000
8.00	6.50	25.80	55.50	81.00	400	1600
9.00	8.20	31.80	62.00	100.00	425	1700

OBLONG PAD EYE (OPEN) SS304 OR SS316



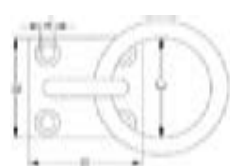
A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
54.00	5.00	38.00	8.00	5.0	50	200
65.00	6.00	46.00	12.00	5.5	55	220
81.00	8.00	55.00	13.00	6.5	62	250
100.00	9.00	62.00	16.00	8.0	70	280

SQUARE PAD EYE SS304 OR SS316



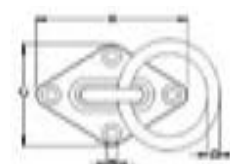
φ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
5.00	2.50	30.00	35.00	4.20	175	700
6.00	2.50	35.00	40.00	5.20	250	1000
8.00	2.90	40.00	50.00	5.50	400	1600
10.00	3.30	47.80	60.80	5.50	500	2000

SQUARE PAD EYE WITH RING SS304 OR SS316

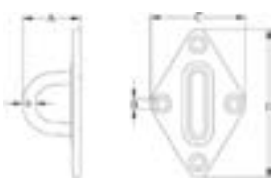


φ mm	A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
5.00	4.10	2.40	30.60	35.00	30.00	175	700
6.00	5.30	2.50	40.80	40.00	35.00	250	1000
8.00	5.60	3.50	45.50	50.00	40.00	400	1600

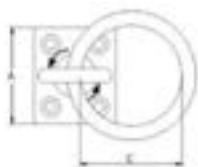
DIAMOND PAD EYE WITH RING SS304 OR SS316



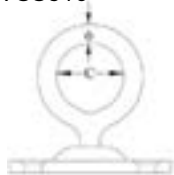
φ mm	A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
5.00	22.50	4.00	36.50	5.00	59.00	175	700
6.00	26.50	4.00	39.50	6.00	64.00	250	1000
8.00	33.00	5.00	50.00	8.00	80.00	400	1600

DIAMOND PAD EYE
SS304 OR SS316

ϕ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
5.00	22.50	4.00	36.50	58.80	175	700
6.00	27.00	4.40	40.00	63.90	250	1000
8.00	33.00	5.50	48.80	79.90	400	1600

SQUARE PAD SWIVEL EYE (WITH RING)
SS304 OR SS316

A mm	B mm	C mm	D mm	SWL kgs	BL kgs
34.00	30.00	30.80	5.00	112	450
40.00	34.00	40.00	6.00	175	700
50.00	40.00	50.50	8.00	212	850

SQUARE PAD SWIVEL EYE,
SS304 OR SS316

ϕ mm	A mm	B mm	C mm	SWL kgs	BL kgs
5.00	30.00	34.00	15.80	113	450
6.00	34.00	40.00	18.50	175	700
8.00	40.00	50.00	18.90	213	850

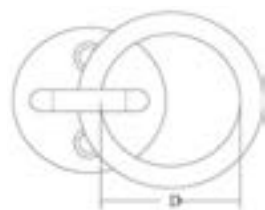
ROUND PAD EYE WITH RING
SS304 OR SS316

A mm	B mm	C mm	D mm	E mm	F mm
5.00	20.90	33.00	4.50	5.00	31.00
6.00	25.30	39.80	4.50	6.00	41.00
8.00	32.00	49.80	5.50	8.00	51.00

ROUND PAD EYE SS304 OR SS316



ϕ mm	A mm	B mm	C mm	SWL kgs	BL kgs
5.00	20.90	33.00	4.20	175	700
6.00	26.00	40.00	4.50	250	1000
8.00	32.50	57.30	5.50	400	1600

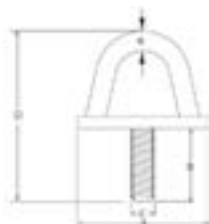
ROUND PAD EYE BOLT (WITH RING)
SS304 OR SS316

A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
5.00	31.80	5.00	30.70	6.00	175	700
6.00	39.80	6.00	40.80	8.00	250	1000
8.00	50.00	8.00	50.80	10.00	400	1600

ROUND PAD EYE (OPEN)
SS304 OR SS316

ϕ mm	A mm	B mm	C mm	SWL kgs	BL kgs
5.00	33.00	8.50	4.50	50	200
6.00	40.00	12.80	4.50	55	220
8.00	50.00	14.00	5.50	63	250

ROUND PAD EYE BOLT SS304 OR SS316



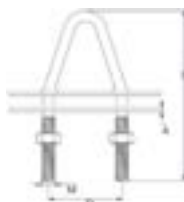
ϕ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
5.00	31.80	20.80	M6	42	100	400
6.00	39.80	23.00	M8	49	125	500
8.00	49.60	24.00	M10	56	250	1000

U-BOLT WITH WASHER AND NUT SS304 OR SS316



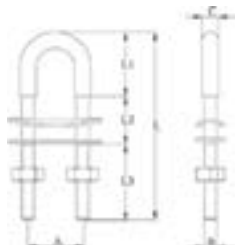
A mm	B mm	C mm	D mm	E mm	M mm
45.00	12.00	30.00	30.00	60.00	M4
50.00	13.00	39.00	35.00	80.00	M5
50.00	15.00	40.00	35.00	90.00	M6
50.00	15.00	40.00	35.00	80.00	M8
50.00	15.00	50.00	35.00	100.00	M8
70.00	20.00	55.00	50.00	91.00	M10
70.60	20.00	55.00	50.00	130.00	M10
83.00	23.00	73.60	58.60	150.00	M12

V-BOLT WITH WASHER AND NUT SS304 OR SS316



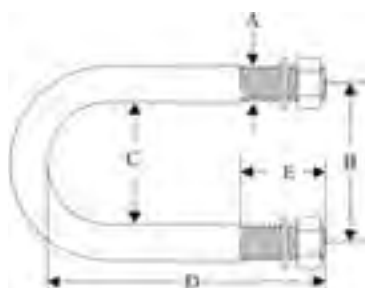
A mm	B mm	C mm	D mm	M mm
2.00	79.80	30.00	35.00	M6
2.00	101.00	40.00	35.00	M6
2.00	81.00	29.00	41.00	M8
2.00	100.50	40.00	41.00	M8
2.00	100.50	40.00	49.00	M10
1.80	121.00	50.00	49.00	M10

U-BOLT WITH WASHER AND NUT SS304 OR SS316



A mm	B mm	C mm	L mm	L1 mm	L2 mm	L3 mm
35.50	M8	10.00	65.00	39.50	3.00	23.30
35.50	M8	10.00	76.00	39.60	5.00	32.40
35.50	M8	10.00	90.00	39.00	4.00	47.00
35.00	M8	10.00	115.00	39.00	29.00	47.00
35.50	M8	10.00	140.00	40.00	54.00	47.00
35.50	M8	10.00	165.00	45.00	73.00	47.00

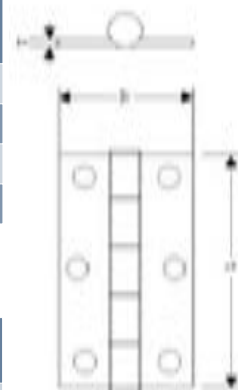
U BOLTS WITH NUT AND FLAT WASHERS



A mm	B mm	C mm	D mm	E mm
1/4" unc	27.00	21.00	35.00	15.00
1/4" unc	29.00	23.00	40.50	16.00
1/4" unc	33.00	27.00	46.00	16.00
1/4" unc	39.00	33.00	51.50	25.00
1/4" unc	41.00	35.00	60.00	28.00
1/4" unc	46.00	40.00	65.00	28.00
1/4" unc	51.00	45.00	71.00	30.00
1/4" unc	58.00	52.00	82.00	30.00
1/4" unc	68.00	62.00	88.00	35.00
5/16" unc	86.00	78.00	107.00	40.00
5/16" unc	100.00	92.00	134.00	45.00
3/8" unc	126.00	116.00	169.00	45.00
1/2" unc	190.00	176.00	219.00	50.00

BUTT HINGE- STANDARD 'ALL STAINLESS'
COMPLETE WITH SCREWS- SOLD PER PAIR

Size mm	L mm	W mm	T mm	Screw Size
2.00	50.00	38.00	1.50	6#
2.50	63.00	40.00	1.50	6#
3.00	76.00	48.00	1.50	6#
4.00	101.00	70.00	1.80	8#



BUTT HINGE WITH NYLON BEARINGS
COMPLETE WITH SCREWS- SOLD PER PAIR

Size mm	L mm	W mm	T mm	Screw Size
2.00	50.00	38.00	1.50	6#
2.50	63.00	40.00	1.50	6#
3.00	76.00	48.00	1.50	6#
4.00	101.00	70.00	1.80	8#

BUTT HINGE WITH NYLON BEARINGS- COMMERCIAL QUALITY
COMPLETE WITH SCREWS- SOLD PER PAIR

Size mm	L mm	W mm	T mm	Screw Size
4x3x2	101.00	76.00	2.00	8#
4x4x2	101.00	101.00	2.00	8#

BUTT HINGE WITH STAINLESS BEARINGS- COMMERCIAL QUALITY
COMPLETE WITH SCREWS- SOLD PER PAIR

Size mm	L mm	W mm	T mm	Screw Size
4x4x2	101.00	101.00	2.00	8#
4x4x3	101.00	101.00	3.00	8#
5x4x3	127.00	101.00	3.00	8#

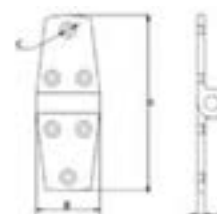
PIANO HINGE
SOLD INDIVIDUALLY



Width Open mm	Width Closed mm	Length mm	Pin Diameter mm	T mm
M25 (Undrilled)	16.00	1800	3.20	1.20
M32 (Undrilled)	19.00	1800	3.20	1.20
M32 (Drilled)	19.00	1800	3.20	1.20
M38 (Undrilled)	22.00	1800	3.20	1.20
M50 (Undrilled)	29.00	1800	4.50	1.50

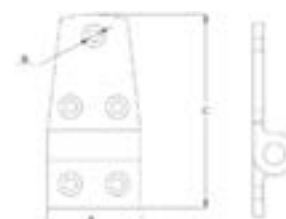
STAINLESS STEEL HINGE, SS304 OR SS316
SOLD INDIVIDUALLY

A mm	B mm	C mm	D mm
4.00	38.00	5.20	75.30
4.20	38.00	5.20	103.80



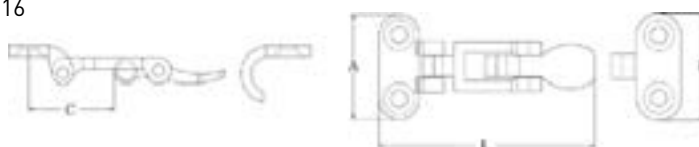
STAINLESS STEEL HINGE, SS304 OR SS316
SOLD INDIVIDUALLY

A mm	B mm	C mm
38.00	5.30	57.00
38.00	5.30	71.00



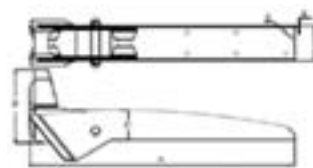
COVER LATCH CAST SS304 OR SS316

A mm	B mm	C mm	L mm
37.00	37.90	49.00	75.00



BOW ROLLER SS304 OR SS316

A mm	B mm	C mm	D mm	E mm	F mm
577.28	150.50	66.00	77.00	3.50	9.00
432.43	160.50	65.80	77.00	3.50	9.00



L-SHAPE PLATE SS304 OR SS316

A mm	B mm	C mm	D mm	E mm	F mm
90L-150	30.00	5.00	90.00	5.00	10.00
90L-200	30.00	5.00	90.00	5.00	10.00
90L-250	30.00	5.00	90.00	5.00	10.00
90L-300	30.00	5.00	90.00	5.00	10.00

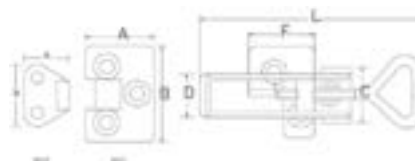


TOGGLE LATCH ADJUSTABLE AND LOCKABLE SS304

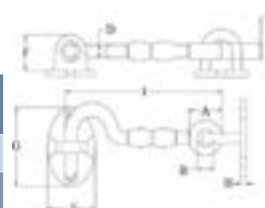
Size	L mm	A mm	B mm	C mm	D mm	F mm
JG1	78-87	24.00	33.00	18.00	14.00	24.00
JG2	110-120	22.00	30.00	25.00	20.00	35.00

TOGGLE LATCH ADJUSTABLE AND LOCKABLE
SS304

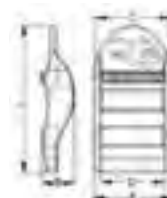
Size	L mm	A mm	B mm	C mm	D mm	F mm
JG1	78-87	24.00	33.00	18.00	14.00	24.00
JG2	110-120	22.00	30.00	25.00	20.00	35.00

CABIN HOOK
SS304 OR SS316

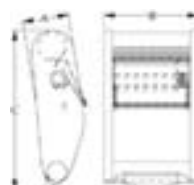
A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm
17.50	9.00	7.90	6.50	25.80	20.40	37.90	2.80	79.30
17.50	9.00	7.90	6.50	25.80	20.40	37.90	2.80	103.00

STRAP BUCKLE
SS304 OR SS316

A mm	B mm	C mm	D mm	E mm
50.30	11.30	25.50	25.50	30.00

RATCHET BUCKLE
SS304 OR SS316

A mm	B mm	C mm
16.20	32.50	53.00



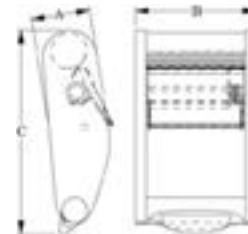
STRAP BUCKLE
SS304 OR SS316

A mm	B mm	C mm	D mm	E mm
50.30	11.30	25.50	25.50	30.00



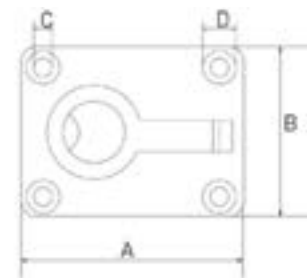
RATCHET BUCKLE
SS304 OR SS316

A mm	B mm	C mm
16.20	32.50	53.00



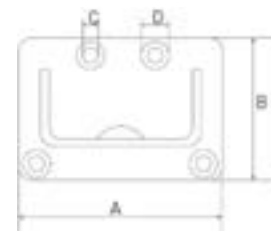
FLUSH PULL
SS316

A mm	B mm	C mm	D mm
62.00	44.50	4.50	7.80



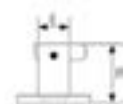
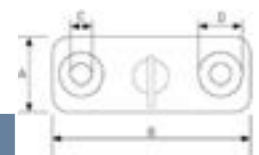
FLUSH PULL
SS316

A mm	B mm	C mm	D mm
78.00	58.00	4.50	7.80



STAY-PUT (HORIZONTAL AND VERTICAL)
SS316

A mm	B mm	C mm	D mm	E mm	F mm	ORIENTATION
16.0	35.0	5.5	9.5	9.0	19.0	VERTICAL
16.0	35.0	5.5	9.5	9.0	16.0	VERTICAL
16.0	35.0	5.5	9.5	9.0	19.0	HORIZONTAL
16.0	35.0	5.5	9.5	9.0	16.0	HORIZONTAL



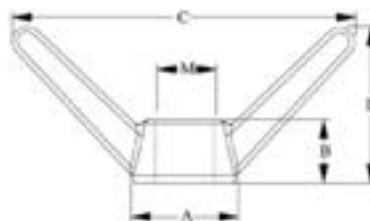
FOLDING EYE PAD
SS316

A mm	B mm	C mm	D mm	E mm	F mm
6.0	45.0	29.0	39.0	3.3	17.5

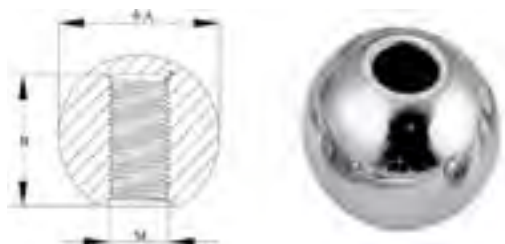


WING NUT (LONG TYPE) SS304 OR SS316

A mm	B mm	C mm	D mm	M mm
14.60	10.90	45.40	23.70	M8
19.20	11.80	61.60	29.50	M10
22.20	13.80	72.00	34.60	M12
27.20	15.80	86.50	40.00	M16
35.00	19.80	108.50	49.00	M20
39.00	21.80	119.50	54.60	M22

STAINLESS STEEL BALL (INTERNAL THREAD)
SS304 OR SS316

ϕ A mm	B mm	C mm
15.00	12.50	M5
20.30	15.20	M6



STAINLESS STEEL BALL SS304 OR SS316

A mm	B mm	C mm
5.30	15.00	12.70
6.00	20.00	17.40



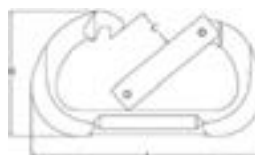
ALUMINIUM CARABINER, CURVED GATE 100

A mm	B mm	C mm	BL kgs
100.00	58.50	25.00	2200



ALUMINIUM CARABINER 111

A mm	B mm	C mm	BL kgs
112.90	62.50	22.00	2400



ALUMINIUM CARABINER, WITH LOCKING NUT

A mm	B mm	C mm	BL kgs
112.90	62.50	19.00	2400



ALUMINIUM CARABINER, WITH LOCKING NUT 111

A mm	B mm	C mm	BL kgs
111.50	66.80	19.00	2600



ALUMINIUM CARABINER 111

A mm	B mm	C mm	BL kgs
111.50	66.80	21.50	2600



HOSE CLAMPS - ALL STAINLESS STEEL

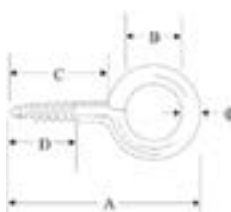


Universal Size	Diameter Range	Band Width
000	8-16	9
00	12-20	9
0	16-25	12
1	25-40	12
1A	20-32	12
1X	30-45	12
2A	32-50	12
2	40-60	12
3	50-70	12
4	70-90	12
5	90-100	12
6	110-130	12
8	150-170	12

BLIND RIVETS - ALL STAINLESS
(RIVET & MANDREL)
OPEN TYPE

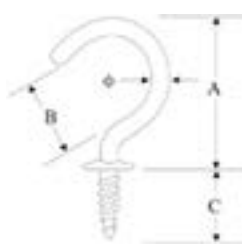
Size mm	Rivet Diameter	Grip Range	Drill Size	Pkt Qty
4-2	1/8	up to 1/8	No 30 (3.3mm)	1000
4-3	1/8	1/8-3/16	No 30 (3.3mm)	1000
4-4	1/8	3/16-1/4	No 30 (3.3mm)	1000
4-6	1/8	1/4-3/8	No 30 (3.3mm)	1000
4-8	1/8	3/8-1/2	No 30 (3.3mm)	1000
5-2	5/32	up to 1/8	No 20 (4.1mm)	1000
5-4	5/32	1/8-1/4	No 20 (4.1mm)	1000
5-6	5/32	1/4-3/8	No 20 (4.1mm)	500
6-2	3/16	up to 1/8	No 11 (4.8mm)	500
6-4	3/16	1/8-1/4	No 11 (4.8mm)	500
6-6	3/16	1/4-3/8	No 11 (4.8mm)	500
6-8	3/16	3/8-1/2	No 11 (4.8mm)	500
6-10	3/16	1/2-5/8	No 11 (4.8mm)	500
6-12	3/16	5/8-3/4	No 11 (4.8mm)	250

SCREW EYES



Size mm	φ mm	A mm	B mm	C mm	D mm	Std Pack
20.00	1.85	20.5	5.00	10.00	8.00	50
23.00	2.15	23.00	6.00	12.00	10.00	50
25.00	2.45	25.00	7.00	12.00	10.00	50
29.00	2.80	29.00	9.00	13.00	11.00	50
34.00	3.30	34.00	10.00	18.00	15.00	50
42.00	3.90	42.00	12.00	20.00	15.00	50

CUP HOOK- SHOULDERED



Size mm	φ mm	A mm	B mm	C mm	Std Pack
16.00	2.20	16.00	5.00	10.00	50
20.00	2.40	20.00	7.00	12.00	50
25.00	2.80	25.00	10.00	14.00	50
28.00	3.20	28.00	10.00	15.00	50
32.00	3.50	32.00	13.00	17.00	50

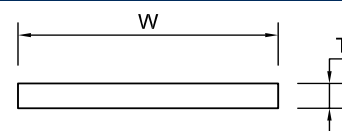
EYE LAG SCREW WITH ROUND RING
SS304 OR SS316

D	D1	D2	L1	C	E	T	R	d	d1
8*3.5	18.00	8.40	60.00	40.00	7.6~8	9.00	5.00	7.00	50.00
4*1.8	8.00	4.20	45.00	30.00	3.6~4	5.00	3.00	4.00	25.00
5*2.2	10.00	5.20	50.00	35.00	4.6~5	6.00	3.50	5.00	30.00
5*2.2	10.00	5.20	60.00	40.00	4.5~5	6.00	3.50	5.00	30.00
6*2.6	14.00	6.30	40.00	30.00	5.6~6	7.00	4.00	6.00	30.00
6*2.6	14.00	6.30	50.00	35.00	5.6~6	7.00	4.00	6.00	30.00
6*2.6	14.00	6.30	55.00	40.00	5.6~6	7.00	4.00	6.00	30.00
6*2.6	14.00	6.30	60.00	40.00	5.6~6	7.00	4.00	6.00	30.00
8*3.5	18.00	8.40	60.00	40.00	7.6~8	9.00	5.00	8.00	50.00
8*3.5	18.00	8.40	75.00	50.00	7.6~8	9.00	5.00	8.00	50.00
8*3.5	18.00	8.40	80.00	55.00	7.6~8	9.00	5.00	8.00	50.00
8*3.5	18.00	8.40	100.00	65.00	7.6~8	9.00	5.00	8.00	50.00
10*4.5	20.00	10.20	75.00	50.00	9.6~10	11.00	6.00	10.00	60.00
10*4.5	20.00	10.20	80.00	55.00	9.6~10	11.00	6.00	10.00	60.00
10*4.5	20.00	10.20	85.00	60.00	9.6~10	11.00	6.00	10.00	60.00
10*4.5	20.00	10.20	100.00	65.00	9.6~10	11.00	6.00	10.00	60.00
10*4.5	20.00	10.20	120.00	80.00	9.6~10	11.00	6.00	10.00	60.00
12*5.0	24.00	12.10	100.00	65.00	11.6~12	13.00	8.00	12.00	75.00
12*5.0	24.00	12.10	120.00	80.00	11.6~12	13.00	8.00	12.00	75.00

RING BOLT WITH
WASHER & NUT
SS304 OR SS316

φ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
5.00	30.00	40.00	60.00	M5	200	800
6.00	35.00	50.00	75.00	M6	250	1000
6.00	35.00	60.00	90.00	M6	250	1000
8.00	45.00	50.00	85.00	M8	450	1800
8.00	45.00	60.00	100.00	M8	450	1800
9.00	50.00	50.00	100.00	M10	600	2400
9.00	50.00	75.00	120.00	M10	600	2400
10.00	50.00	50.00	100.00	M10	600	2400
12.00	60.00	70.00	120.00	M12	1000	4000
12.00	60.00	100.00	150.00	M12	1000	4000
12.00	60.00	120.00	180.00	M12	1000	4000

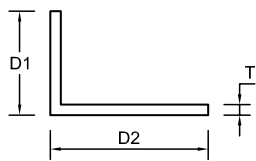
ALUMINIUM FLAT BAR



ALUMINIUM BAR

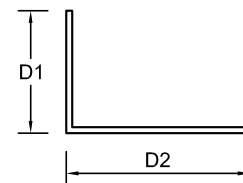
Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
FLAT BAR 10 x 3MM	001	MILL	4.000	0.081	0.324
FLAT BAR 12 x 1.6MM	001	MILL	4.000	0.049	0.196
FLAT BAR 12 x 3MM	001	MILL	4.000	0.097	0.388
FLAT BAR 12 x 6MM	001	MILL	4.000	0.194	0.776
FLAT BAR 16 x 3MM	001	MILL	4.000	0.130	0.520
FLAT BAR 20 x 1.6MM	001	MILL	4.000	0.086	0.344
FLAT BAR 20 x 3MM	001	MILL	4.000	0.163	0.652
FLAT BAR 20 x 6MM	001	MILL	4.000	0.325	1.300
FLAT BAR 25 x 1.6MM	001	MILL	2.800	0.108	0.302
FLAT BAR 25 x 1.6MM	001	MILL	4.000	0.108	0.432
FLAT BAR 25 x 3MM	001	MILL	4.000	0.203	0.812
FLAT BAR 25 x 4MM	001	MILL	4.000	0.270	1.080
FLAT BAR 25 x 6MM	001	MILL	4.000	0.406	1.624
FLAT BAR 25 x 10MM	001	MILL	4.000	0.675	2.700
FLAT BAR 25 x 12MM	001	MILL	4.000	0.810	3.240
FLAT BAR 32 x 3MM	001	MILL	4.000	0.260	1.040
FLAT BAR 32 x 6MM	001	MILL	4.000	0.520	2.080
FLAT BAR 32 x 10MM	001	MILL	4.000	0.864	3.456
FLAT BAR 40 x 3MM	001	MILL	2.750	0.325	0.894
FLAT BAR 40 x 3MM	001	MILL	4.000	0.325	1.300
FLAT BAR 40 x 4MM	001	MILL	4.000	0.432	1.728
FLAT BAR 40 x 6MM	001	MILL	4.000	0.650	2.600
FLAT BAR 40 x 10MM	001	MILL	4.000	1.079	4.316
FLAT BAR 50 x 3MM	001	MILL	4.000	0.406	1.624
FLAT BAR 50 x 6MM	001	MILL	4.000	0.813	3.252
FLAT BAR 50 x 6MM DNV	001	MILL	6.000	0.810	4.860
FLAT BAR 50 x 10MM	001	MILL	4.000	1.355	5.420
FLAT BAR 50 x 12MM	001	MILL	4.000	1.620	6.480
FLAT BAR 60 x 3MM	001	MILL	4.000	0.488	1.952
FLAT BAR 60 x 6MM	001	MILL	4.000	0.971	3.884
FLAT BAR 60 x 10MM	001	MILL	4.000	1.620	6.480
FLAT BAR 80 x 3MM	001	MILL	4.000	0.650	2.600
FLAT BAR 80 x 6MM	001	MILL	4.000	1.300	5.200
FLAT BAR 80 x 10MM	001	MILL	4.000	2.168	8.672
FLAT BAR 100 x 1.5MM	001	MILL	2.800	0.434	1.215
FLAT BAR 100 x 1.5MM	001	MILL	3.600	0.434	1.562
FLAT BAR 100 x 3MM	001	MILL	4.000	0.813	3.252
FLAT BAR 100 x 10MM	001	MILL	4.000	2.710	10.840
FLAT BAR 100 x 4MM	001	MILL	4.000	1.080	4.320
FLAT BAR 100 x 6MM	001	MILL	4.000	1.626	6.504
FLAT BAR 150 x 1.5MM	001	MILL	3.600	0.608	2.189
FLAT BAR 160 x 6MM	001	MILL	4.000	2.601	10.404
FLAT BAR 160 x 10MM	001	MILL	4.000	4.335	17.340

ALUMINIUM ANGLES



Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
12 x 12 x 3MM ANGLE	001	MILL	6.500	0.171	1.112
16 x 16 x 3MM ANGLE	001	MILL	6.500	0.236	1.534
20 x 12 x 3MM ANGLE	001	MILL	6.500	0.235	1.528
20 x 20 x 3MM ANGLE	001	MILL	6.500	0.301	1.957
25 x 12 x 3MM ANGLE	001	MILL	6.500	0.276	1.794
25 x 20 x 2.5MM ANGLE	001	MILL	6.500	0.286	1.859
25 x 20 x 3MM ANGLE	001	MILL	6.500	0.341	2.217
25 x 25 x 3MM ANGLE	001	MILL	6.000	0.382	2.292
25 x 25 x 3MM ANGLE	001	MILL	6.500	0.382	2.483
32 x 20 x 3MM ANGLE	001	MILL	6.500	0.397	2.581
32 x 25 x 3MM ANGLE	001	MILL	6.500	0.439	2.854
32 x 32 x 3MM ANGLE	001	MILL	6.500	0.496	3.224
35 x 35 x 2MM ANGLE 60190	001	MILL	6.500	0.368	2.392
40 x 12 x 3MM ANGLE	001	MILL	6.040	0.398	2.404
40 x 20 x 3MM ANGLE	001	MILL	6.500	0.463	3.010
40 x 25 x 3MM ANGLE	001	MILL	6.500	0.504	3.276
40 x 40 x 3MM ANGLE	001	MILL	2.750	0.626	1.722
	001	MILL	6.500	0.626	4.069
40 x 40 x 4MM ANGLE	001	MILL	6.500	0.820	5.330
40 x 40 x 6MM ANGLE	001	MILL	6.000	1.203	7.218
	001	MILL	6.500	1.203	7.820
44 x 25 x 1.6MM ANGLE AN2	001	MILL	6.000	0.292	1.752
50 x 20 x 3MM ANGLE	001	MILL	6.000	0.545	3.270
50 x 25 x 3MM ANGLE	001	MILL	6.500	0.585	3.803
50 x 50 x 3MM ANGLE	001	MILL	6.500	0.789	5.129
50 x 50 x 6MM ANGLE	001	MILL	6.500	1.528	9.932
60 x 25 x 3MM ANGLE	001	MILL	6.500	0.664	4.316
60 x 40 x 4MM ANGLE	001	MILL	6.500	1.033	6.715
60 x 60 x 3MM ANGLE	001	MILL	6.500	0.951	6.182
60 x 60 x 6MM ANGLE	001	MILL	6.500	1.854	12.051
70 x 40 x 1.6MM ANGLE	001	MILL	6.500	0.470	3.055
75 x 25 x 1.6MM ANGLE	001	MILL	6.500	0.425	2.763
75 x 25 x 3.0MM ANGLE	001	MILL	6.500	0.788	5.122
80 x 20 x 3MM ANGLE	001	MILL	6.000	0.788	4.728
	001	MILL	6.500	0.788	5.122
80 x 50 x 2.5MM ANGLE E20559	001	MILL	6.500	0.861	5.597
80 x 80 x 6MM ANGLE	001	MILL	6.000	2.503	15.018
	001	MILL	6.500	2.503	16.270
80 x 80 x 6MM ANGLE 6106 T6	001	MILL	6.500	2.494	16.211
Q2029 7 6x 55 x 5MM ANGLE	001	MILL	6.000	1.688	10.128
90 x 40 x 1.6MM ANGLE E20570	001	MILL	6.500	0.556	3.614
100 x 50 x 3MM ANGLE	001	MILL	6.500	1.195	7.768
100 x 50 x 4MM ANGLE	001	MILL	6.500	1.577	10.251
100 x 50 x 6.0MM ANGLE ME7600	001	MILL	6.500	2.342	15.223
100 x 50 x 6MM ANGLE	001	MILL	6.500	2.342	15.223
100 x 76 x 3MM ANGLE	001	MILL	6.500	1.406	9.139
125 x 50 x 3MM ANGLE	001	MILL	6.500	1.398	9.087
75MM COOLROOM ANGLE CR2 (T7490) ANGLE	001	MILL	6.500	0.842	5.473
	001	MILL	6.500	0.301	1.957
CR3 (L8340) 50MM COOLROOM ANGLE	001	MILL	6.500	0.474	3.081
CR4 (L8530) 35MM COOLROOM ANGLE	001	MILL	6.500	0.358	2.327
ALC079 40 x 40MM ANGLE W/V GROOVES	001	MILL	4.850	0.318	1.542
	001	MILL	6.500	0.318	2.067

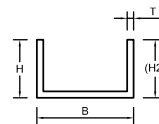
ALUMINIUM TRIM ANGLE



ALUMINIUM BAR

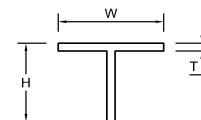
Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
12 x 12MM TRIM ANGLE	001	MILL	6.000	0.086	0.516
12 x 12MM TRIM ANGLE	001	MILL	6.500	0.086	0.559
16 x 16MM TRIM ANGLE	001	MILL	6.500	0.116	0.754
20 x 12MM TRIM ANGLE	001	MILL	6.000	0.116	0.696
20 x 12MM TRIM ANGLE	001	MILL	6.500	0.116	0.754
20 x 20MM TRIM ANGLE	001	MILL	6.500	0.146	0.949
25 x 12MM TRIM ANGLE	001	MILL	6.500	0.135	0.878
25 x 20MM TRIM ANGLE	001	MILL	6.500	0.165	1.073
25 x 25MM TRIM ANGLE	001	MILL	5.000	0.184	0.920
25 x 25MM TRIM ANGLE	001	MILL	6.500	0.184	1.196
32 x 20MM TRIM ANGLE	001	MILL	6.500	0.192	1.248
32 x 32MM TRIM ANGLE	001	MILL	6.500	0.237	1.541
40 x 12MM TRIM ANGLE	001	MILL	6.500	0.192	1.248
40 x 20MM TRIM ANGLE	001	MILL	6.500	0.222	1.443
40x 25MM TRIM ANGLE	001	MILL	6.500	0.241	1.567
40 x 40MM TRIM ANGLE	001	MILL	6.500	0.298	1.937
45 x 20MM TRIM ANGLE	001	MILL	6.500	0.263	1.710
50 x 20MM TRIM ANGLE	001	MILL	6.500	0.296	1.924
50 x 25MM TRIM ANGLE	001	MILL	6.500	0.279	1.814
50 x 50MM TRIM ANGLE	001	MILL	6.500	0.374	2.431
60 x 12MM TRIM ANGLE	001	MILL	6.500	0.267	1.736
70 x 12MM TRIM ANGLE	001	MILL	6.500	0.305	1.983
70 x 20MM TRIM ANGLE	001	MILL	6.500	0.371	2.412
70 x 25MM TRIM ANGLE	001	MILL	6.500	0.355	2.308
70 x 40MM TRIM ANGLE	001	MILL	6.500	0.470	3.055

ALUMINIUM CHANNEL



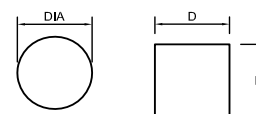
Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
CHANNEL 100 x 25 x 3MM	001	MILL	6.500	1.170	7.605
CHANNEL 100 x 50 x 3MM	001	MILL	6.500	1.571	10.212
CHANNEL 10 x 10 x 1.6MM	001	MILL	6.500	0.116	0.754
CHANNEL 10 x 12 x 1.6MM	001	MILL	6.500	0.133	0.865
CHANNEL 12 x 12 x 1.6MM	001	MILL	6.500	0.142	0.923
CHANNEL 12 x 20 x 2.5MM	001	MILL	6.500	0.320	2.08
CHANNEL 16 x 16 x 1.6MM	001	MILL	6.500	0.194	1.261
CHANNEL 20 x 16 x 1.6MM	001	MILL	6.500	0.211	1.372
CHANNEL 20 x 20 x 1.6MM	001	MILL	6.000	0.246	1.476
	001	MILL	6.500	0.246	1.599
CHANNEL 20 x 20 x 2.5MM	001	MILL	5.400	0.371	2.003
	001	MILL	6.500	0.371	2.412
CHANNEL 20 x 20 x 3.0MM	001	MILL	6.500	0.438	2.847
CHANNEL 22 x 20 x 1.2MM	001	MILL	6.000	0.193	1.158
CHANNEL 25 x 12 x 3.0MM	001	MILL	6.000	0.348	2.088
CHANNEL 25 x 12 x 3.0MM	001	MILL	6.500	0.348	2.262
CHANNEL 25 x 20 x 1.6MM	001	MILL	6.300	0.268	1.688
	001	MILL	6.500	0.268	1.742
CHANNEL 25 x 20 x 2.5MM	001	MILL	6.500	0.405	2.633
CHANNEL 25 x 25 x 3MM	001	MILL	6.500	0.561	3.647
CHANNEL 25 x 40 x 3MM	001	MILL	6.500	0.805	5.233
CHANNEL 32 x 25 x 3MM	001	MILL	6.500	0.620	4.03
CHANNEL R/C 40 x 20 x 3.0MM	001	MILL	6.500	0.591	3.842
CHANNEL 40 x 25 x 3MM	001	MILL	6.500	0.683	4.440
CHANNEL 40 x 40 x 3MM	001	MILL	6.500	0.926	6.019
CHANNEL 50x25x3MM	001	MILL	6.500	0.764	4.966
CHANNEL 50 x 50 x 3MM	001	MILL	6.500	1.171	7.612
CHANNEL 60 x 32 x 3MM	001	MILL	6.500	0.958	6.227
CHANNEL R/C 60 x 32 x 3.0MM	001	MILL	6.500	0.949	6.169
CHANNEL 76.2MM x 38.1MM x 3.96MM	001	MILL	6.500	1.549	10.069
CHANNEL 76.2 x 38.1 x 7.92MM	001	MILL	5.500	2.733	15.032
CHANNEL 7 8x 25 x 1.6MM	001	MILL	6.000	0.541	3.246
CHANNEL 80 x 40 x 6MM 6061	001	MILL	6.000	2.380	14.28
CHANNEL 80 x 25 x 3MM	001	MILL	6.500	1.004	6.526
CHANNEL 101.6 x 50.8 x 6/8 R	001	MILL	6.500	3.742	24.323
CHANNEL 101.6 x 50.8 x 7.93MM	001	MILL	6.000	3.742	22.452
CHANNEL 127 x 63.5 x 9.52 x 6.35	001	MILL	5.500	5.260	28.93
CHANNEL 152.4 x 63.5 x 7.92MM	001	MILL	5.500	5.201	28.606

ALUMINIUM TEES



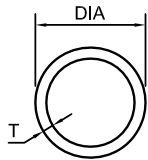
Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
G3095 CEILING TEE 36.5x1.17	001	MILL	5.500	0.248	1.364
T-SECTION 20 x 20 x 1.6MM	001	MILL	4.000	0.165	0.660
	001	MILL	5.000	0.165	0.825
T-SECTION 20 x 20 x 3MM	001	MILL	4.000	0.301	1.204
	001	MILL	5.300	0.301	1.595
T-SECTION 25 x 25 x 1.6MM	001	MILL	4.000	0.209	0.836
	001	MILL	6.500	0.209	1.359
T-SECTION 25 x 25 x 3MM	001	MILL	4.000	0.382	1.528
T-SECTION 40 x 20 x 1.6MM	001	MILL	6.000	0.251	1.506
T-SECTION 40 x 40 x 1.6MM	001	MILL	5.500	0.337	1.854
	001	MILL	6.000	0.337	2.022
	001	MILL	6.500	0.337	2.191
T-SECTION 40 x 40 x 3MM	001	MILL	4.000	0.625	2.500
	001	MILL	6.500	0.625	4.063

ALUMINIUM SOLIDS



Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
Round Rod - DIA					
ROUND ROD 10MM 6060	001	MILL	4.000	0.213	0.852
ROUND ROD 12MM 6060	001	MILL	4.000	0.305	1.220
ROUND ROD 12.7MM 6060	001	MILL	4.000	0.342	1.368
ROUND ROD 16MM 6060	001	MILL	4.000	0.543	2.172
ROUND ROD 20MM 6060	001	MILL	4.000	0.848	3.392
ROUND ROD 25MM 6060	001	MILL	4.000	1.372	5.488
ROUND ROD 28MM	001	MILL	4.000	1.669	6.676
ROUND ROD 38.1MM 6061	001	MILL	4.000	3.092	12.368
ROUND ROD 50MM 6061	001	MILL	4.000	5.301	21.204
ROUND ROD 6MM 6061	001	MILL	4.000	0.098	0.392
Square Bar - D					
SQUARE BAR 6MM	001	MILL	4.000	0.097	0.388
SQUARE BAR 10MM	001	MILL	4.000	0.271	1.084
SQUARE BAR 12MM	001	MILL	4.000	0.390	1.560

ALUMINIUM ROUND TUBE

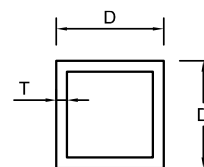


Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
EXT.TUBE 10 x 1.2MM	001	MILL	6.500	0.089	0.579
EXT.TUBE 12 x 1.6MM	001	MILL	6.500	0.142	0.923
EXT.TUBE 15.88 x 1.6MM	001	MILL	1.195	0.195	0.233
EXT.TUBE 15.88 x 1.42MM 6063T6	001	MILL	6.100	0.175	1.068
EXT.TUBE 16 x 1.2MM	001	MILL	6.100	0.151	0.921
EXT. TUBE 16 x 1.2MM T6	001	MILL	1.195	0.151	0.180
EXT. TUBE 16 x 1.2MM T6	001	MILL	1.201	0.151	0.181
EXT. TUBE 16 x 1.2MM T6	001	MILL	6.100	0.151	0.921
EXT.TUBE 16 x 1.6MM	001	MILL	6.000	0.196	1.176
EXT.TUBE 16 x 1.6MM	001	MILL	6.400	0.196	1.254
EXT.TUBE 16 x 1.6MM	001	MILL	6.500	0.196	1.274
EXT.TUBE 16 x 1.6MM 6060T591	001	MILL	6.000	0.196	1.176
EXT.TUBE 19 x 1.2MM 6061 T6	001	MILL	1.201	0.182	0.219
EXT.TUBE 19 x 1.2MM 6061 T6	001	MILL	6.100	0.182	1.110
EXT.TUBE 19 x 1.6MM	001	MILL	6.000	0.237	1.422
EXT.TUBE 19 x 1.6MM	001	MILL	7.200	0.237	1.706
EXT.TUBE 19.04 x 1.3MM	001	MILL	6.210	0.196	1.217
EXT.TUBE 19.05 x 1.0MM	001	MILL	6.000	0.154	0.924
EXT.TUBE 20 x 1.6MM	001	MILL	6.000	0.251	1.506
EXT.TUBE 20 x 2.25MM 6106	001	MILL	6.500	0.339	2.204
EXT.TUBE 20 x 1.6MM 6060 T591	001	MILL	6.500	0.251	1.632
EXT.TUBE 25 x 1.6MM	001	MILL	6.500	0.319	2.074
EXT.TUBE 25 x 1.6MM T591	001	MILL	6.500	0.319	2.074
EXT.TUBE 25 x 3MM 6060 T591	001	MILL	6.500	0.562	3.653
EXT.TUBE 25 x 3MM	001	MILL	6.000	0.562	3.372
EXT.TUBE 25 x 3MM	001	MILL	6.500	0.562	3.653
EXT.TUBE 25 x 3MM 6061 T6	001	MILL	2.490	0.562	1.399
EXT.TUBE 32 x 2MM T595	001	MILL	6.500	0.511	3.322
EXT.TUBE 32 x 3MM	001	MILL	6.000	0.741	4.446
EXT.TUBE 32 x 3MM	001	MILL	6.500	0.741	4.817
EXT.TUBE 32 x 3MM 6060 T591	001	MILL	6.000	0.737	4.422
EXT.TUBE 38.1 x 2.39MM X2206	001	MILL	6.000	0.726	4.356
EXT.TUBE 40 x 1.6MM	001	MILL	6.500	0.523	3.400
EXT.TUBE 40 x 3MM	001	MILL	6.000	0.942	5.652
EXT.TUBE 40 x 3MM T591	001	MILL	3.480	0.942	3.278
EXT.TUBE 40 x 3MM T591	001	MILL	6.000	0.942	5.652
EXT.TUBE 40 x 3MM T591	001	MILL	6.500	0.942	6.123
EXT.TUBE 44.5 x 3.20MM	001	MILL	6.500	1.125	7.313
EXT.TUBE 50 x 1.6MM	001	MILL	6.500	0.659	4.284
EXT.TUBE 50 x 2MM 6060T591	001	MILL	6.500	0.815	5.298
EXT.TUBE 50 x 3MM	001	MILL	6.500	1.201	7.807
EXT.TUBE 50 x 3MM T591	001	MILL	6.500	1.201	7.807
EXT.TUBE 50 x 3MM T595	001	MILL	6.000	1.201	7.206
EXT.TUBE 50 x 4MM 6060T1	001	MILL	6.000	1.561	9.366
EXT.TUBE 50 x 4MM 6106 T6	001	MILL	6.500	1.561	10.147
EXT.TUBE 50 x 5MM 6106T6	001	MILL	6.500	1.916	12.454
EXT.TUBE 50 x 6MM 6106 T6	001	MILL	5.800	2.248	13.038
EXT.TUBE 50.8 x 1.6MM	001	MILL	6.500	0.688	4.472
EXT.TUBE 57.15 x 5.38MM	001	MILL	6.000	2.353	14.118
EXT.TUBE 60 x 2MM	001	MILL	6.500	0.988	6.422
EXT.TUBE 60 x 3MM	001	MILL	6.000	1.450	8.700
EXT.TUBE 60 x 3MM	001	MILL	6.500	1.450	9.425
EXT.TUBE 60 x 3MM T591	001	MILL	6.500	1.450	9.425
EXT.TUBE 60 x 3MM T4	001	MILL	6.500	1.450	9.425
EXT.TUBE 60 x 5MM	001	MILL	6.500	2.340	15.210
EXT.TUBE 63.5x 6.35MM 6106T6	001	MILL	6.000	3.078	18.468
EXT.TUBE 76 x 1.6MM	001	MILL	6.500	1.009	6.559
EXT.TUBE 76.2MM x 1.25MM	001	MILL	6.000	0.795	4.770
EXT.TUBE 80 x 3MM ALH0330 6060T5	001	MILL	6.500	1.960	12.740
EXT.TUBE 88.9 x 2.9MM	001	MILL	6.500	2.115	13.748
EXT.TUBE 100 x 3MM	001	MILL	6.500	2.475	16.088
EXT.TUBE 8MM LANDING NET TUBE	001	MILL	6.000	0.067	0.402
X2202 SCAFFOLD TUBE 48.4 x 4.47MM	001	MILL	6.000	1.666	9.996
X2202 SCAFFOLD TUBE 48.4 x 4.47MM	001	MILL	6.500	1.666	10.829

ALUMINIUM SQUARE BOX

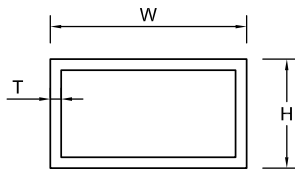
Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
BOX SQUARE 12.7MM x 1.55MM	001	MILL	6.000	0.187	1.122
BOX SQUARE 12.7MM x 1.55MM	001	MILL	6.500	0.187	1.216
BOX SQUARE 16MM x 1.2MM	001	MILL	6.550	0.187	1.225
BOX SQUARE 19.05MM x 1.15MM	001	MILL	6.020	0.231	1.391
BOX SQUARE 19.05MM x 1.2MM	001	MILL	6.200	0.225	1.395
BOX SQUARE 19MM x 1.6MM	001	MILL	6.500	0.298	1.937
BOX SQUARE 20MM x 1.6MM	001	MILL	6.500	0.319	2.074
BOX SQUARE 20MM x 3MM	001	MILL	6.500	0.553	3.595
BOX SQUARE 25.4MM WITH LEG	001	MILL	6.500	0.345	2.243
BOX SQUARE 25MM x 1.6MM	001	MILL	6.500	0.406	2.639
BOX SQUARE 25MM x 2MM	001	MILL	6.000	0.504	3.024
BOX SQUARE 25MM x 3MM	001	MILL	6.000	0.715	4.290
BOX SQUARE 25MM x 3MM	001	MILL	6.500	0.715	4.648
BOX SQUARE 31.75MM x 3.18MM	001	MILL	6.500	0.983	6.390
BOX SQUARE 31.75MM x 3.2MM	001	MILL	6.000	0.983	5.898
BOX SQUARE 32MM x 2MM	001	MILL	6.500	0.650	4.225
BOX SQUARE 32MM x 3MM	001	MILL	6.500	0.943	6.130
BOX SQUARE 40MM x 1.6MM	001	MILL	6.000	0.666	3.996
BOX SQUARE 40MM x 1.6MM	001	MILL	6.500	0.666	4.329
BOX SQUARE 40MM x 2MM	001	MILL	6.500	0.824	5.356
BOX SQUARE 40MM x 3MM	001	MILL	6.500	1.203	7.820
BOX SQUARE 45MM x 1.8MM SB7	001	MILL	5.500	0.842	4.631
BOX SQUARE 50MM x 1.6MM	001	MILL	5.500	0.839	4.615
BOX SQUARE 50MM x 1.6MM	001	MILL	6.500	0.839	5.454
BOX SQUARE 50MM x 2.5MM	001	MILL	6.500	1.287	8.366
BOX SQUARE 50MM x 2MM	001	MILL	6.000	1.040	6.240
BOX SQUARE 50MM x 2MM	001	MILL	6.500	1.040	6.760
BOX SQUARE 50MM x 3MM	001	MILL	6.500	1.528	9.932
BOX SQUARE 50MM x 3MM 6106	001	MILL	6.500	1.528	9.932
BOX SQUARE 65.5MM x 1.6MM	001	MILL	5.500	1.102	6.061
BOX SQUARE 65.5MM x 1.6MM	001	MILL	6.000	1.102	6.612
BOX SQUARE 65MM x 2.5MM	001	MILL	6.500	1.693	11.005
SQUARE TUBE 90 x 90 x 2MM	001	MILL	3.500	1.882	6.587
BOX SQUARE 100 x 3.0MM (AA4335)	001	MILL	6.500	3.154	20.501
BOX SQUARE 100MM x 3.0MM	001	MILL	6.500	3.154	20.501
BOX RADIUS 19.05 x 1.6MM SB2	001	MILL	6.500	0.315	2.048
BOX RADIUS 19.05MM x 1.83MM	001	MILL	6.000	0.342	2.052
BOX RADIUS 20MM x 3MM 6106 T6	001	MILL	6.500	0.532	3.458
BOX RADIUS 20MM x 3MM	001	MILL	6.500	0.532	3.458
BOX RADIUS 25.4 x 3.25MM	001	MILL	6.000	0.777	4.662
BOX RADIUS 25.4MM x 1.22MM	001	MILL	6.000	0.318	1.908
BOX RADIUS 25.4MM x 1.22MM	001	MILL	6.500	0.318	2.067

ALUMINIUM SQUARE BOX



Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
BOX RADIUS 40MM x 2MM	001	MILL	6.500	0.803	5.220
BOX RADIUS 40MM x 3MM	001	MILL	6.500	1.192	7.748
HR10 40MM STRUCTURAL POST	001	MILL	6.000	1.209	7.254
HR10 40MM STRUCTURAL POST	001	MILL	6.400	1.209	7.738
SB1 50MM x 50MM POST	001	MILL	5.100	0.925	4.718
SB1 50MM x 50MM POST	001	MILL	5.410	0.925	5.004
SB1 50MM x 50MM POST	001	MILL	5.500	0.925	5.088
SB1 50MM x 50MM POST	001	MILL	6.000	0.925	5.550
BOX RADIUS 50MM x 1.8MM	001	MILL	1.800	0.898	1.616
BOX RADIUS 50MM x 1.8MM	001	MILL	2.100	0.898	1.886
BOX RADIUS 50MM x 1.8MM	001	MILL	6.500	0.898	5.837
BOX RADIUS 50MM x 2MM	001	MILL	6.500	0.986	6.409
BOX RADIUS 50MM x 5.0MM	001	MILL	6.500	2.349	15.269
BOX RADIUS 50x50x3.0MM	001	MILL	6.500	1.466	9.529
BOX RADIUS 50.8MM x 1.6MM	001	MILL	6.500	0.908	5.902
BOX RADIUS 50.8MM x 2.03MM	001	MILL	5.410	1.008	5.453
BOX RADIUS 50.8MM x 2.03MM	001	MILL	6.500	1.008	6.552
BOX RADIUS 50.8MM x 2.03MM	001	MILL	7.200	1.008	7.258
BOX RADIUS 50.8MM x 2MM	001	MILL	6.000	1.008	6.048
BOX RADIUS 50.8MM x 3.18MM	001	MILL	6.500	1.598	10.387
BOX RADIUS 50.8MM x 3MM	001	MILL	6.500	1.487	9.666
BOX RADIUS 50.8MM x 3MM 6106 T6	001	MILL	6.100	1.487	9.071
BOX RADIUS 75MM x 3MM	001	MILL	6.100	2.279	13.902
BOX RADIUS 75MM x 3MM	001	MILL	6.500	2.279	14.814
HR12 80MM POST	001	MILL	6.300	2.447	15.416
SB9A 90MM FLUTED POST	001	MILL	6.000	1.839	11.034
SB9 90MM x 90MM POST	001	MILL	6.000	1.889	11.334
BOX RADIUS 100MM x 3.2MM	001	MILL	6.500	3.358	21.827
BOX RADIUS 25.4MM x 1.2MM	001	MILL	6.000	0.321	1.926
BOX RADIUS 25MM x 1.5MM	001	MILL	6.000	0.382	2.292
BOX RADIUS 25MM x 2MM	001	MILL	6.000	0.497	2.982
BOX RADIUS 25MM x 3MM	001	MILL	6.500	0.713	4.635
BOX RADIUS 30MM x 1.6MM	001	MILL	7.300	0.478	3.489
BOX RADIUS 32MM x 2.5MM	001	MILL	6.500	0.787	5.116
BOX RADIUS 32MM x 3.0MM	001	MILL	6.500	0.928	6.032
BOX RADIUS 37.35MM x 2.5MM	001	MILL	6.500	0.896	5.824
BOX RADIUS 40MM x 2MM	001	MILL	6.500	0.801	5.207

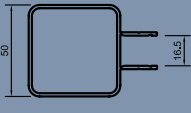
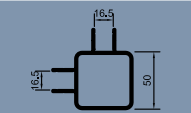
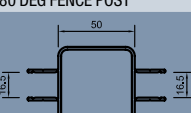
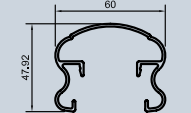
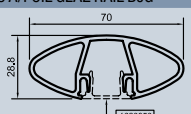
ALUMINIUM RECTANGULAR HOLLOW SECTION



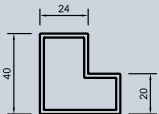
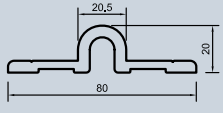
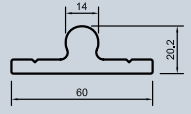
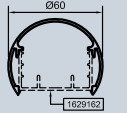
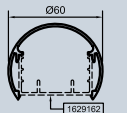
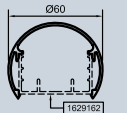
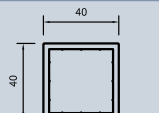
Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
RHS BOX 38.1 x 17.45 x 3.18MM	001	MILL	6.500	0.845	5.493
RHS BOX 38.1 x 25.4 x 2.54MM	001	MILL	6.500	0.801	5.207
RHS BOX 40 x 20 x 3MM	001	MILL	6.500	0.878	5.707
RHS BOX 40 x 25 x 2.4MM	001	MILL	6.500	0.780	5.070
RHS BOX 40 x 25 x 2.5MM	001	MILL	6.500	0.810	5.265
RHS BOX 50 x 10 x 1.3MM	001	MILL	6.000	0.529	3.174
RHS BOX 50 x 25 x 1.6MM	001	MILL	6.500	0.623	4.050
RHS BOX 50 x 25 x 3MM	001	MILL	6.000	1.122	6.732
	001	MILL	6.500	1.122	7.293
RHS BOX 50 x 40 x 3MM	001	MILL	6.500	1.361	8.847
RHS BOX 60 x 40 x 3MM	001	MILL	6.500	1.528	9.932
RHS BOX 70 x 30 x 3MM	001	MILL	6.500	1.518	9.867
RHS BOX 75 x 50 x 3MM	001	MILL	6.500	1.928	12.532
RHS BOX 76.2 x 25.4 x 2.4MM	001	MILL	6.500	1.259	8.184
RHS BOX 76.2 x 50.8 x 3.18MM	001	MILL	6.500	2.071	13.462
RHS BOX 80 x 40 x 3MM	001	MILL	6.500	1.854	12.051
RHS BOX 80 x 50 x 3MM	001	MILL	6.500	2.016	13.104
RHS BOX 80 x 50 x 3MM 6106	001	MILL	6.500	2.016	13.104
RHS BOX 100 x 25 x 1.6MM	001	MILL	6.500	1.056	6.864
RHS BOX 100 x 25 x 2.5MM	001	MILL	6.500	1.626	10.569
RHS BOX 100 x 50 x 3MM	001	MILL	6.500	2.341	15.217
RHS BOX 125 x 40 x 3MM	001	MILL	6.500	2.585	16.803
RHS BOX 250 x 50 x 3MM	001	MILL	6.500	4.762	30.953
	001	MILL	6.900	4.762	32.858
RHS RAD.BOX 38 x 25 x 1.5MM BA1	001	MILL	6.000	0.472	2.832
RHS RAD.BOX 38.1 x 25.4 x 1.6MM	001	MILL	7.300	0.516	3.767
RHS RAD38 x 25 x 1.5MM D/P16.7/90MM CTR	001	MILL	2.400	0.472	1.133
	001	MILL	2.475	0.472	1.168
RHS RAD38 x 25 x 1.5MM S/P16.7/90MM CTR	001	MILL	2.400	0.472	1.133
	001	MILL	2.475	0.472	1.168
RHS RAD BOX 38 x 25 x 1.5MM	001	MILL	4.900	0.470	2.303
	001	MILL	6.500	0.470	3.055
RHS RAD BOX 38 x 25 x 1.5MM 6060 T6	001	MILL	6.100	0.470	2.867
RHS RAD BOX 38 x 25 x 2MM	001	MILL	6.000	0.624	3.744
RHS RAD BOX 38.1 x 25.4 x 1.5MM	001	MILL	6.000	0.472	2.832
	001	MILL	6.070	0.472	2.865
RHS RAD BOX 38.1 x 25.4 x 2.5MM	001	MILL	6.070	0.772	4.686
RHS RAD BOX 50 x 25 x 3MM	001	MILL	6.500	1.101	7.157
RHS RAD BOX 50.8 x 11 x 1.3MM	001	MILL	6.500	0.407	2.646
RHS RAD BOX 50.8 x 25.4 x 2.5MM	001	MILL	6.500	0.960	6.240
RHS RAD BOX 65 x 16 x 1.2MM	001	MILL	6.500	0.498	3.237
RHS RAD BOX 65 x 16 x 1.4MM	001	MILL	6.500	0.576	3.744
RHS RAD BOX 65 x 16 x 1.27MM WITH WEB	001	MILL	6.000	0.573	3.438
DURA SLAT 65 x 16 x 1.4MM	001	MILL	3.600	0.578	2.081
	001	MILL	5.400	0.578	3.121
	001	MILL	6.500	0.578	3.757
RHS RAD BOX 100 x 16 x 1.2MM WITH WEB	001	MILL	6.500	0.780	5.070
RHS RAD BOX 100 x 50 x 3MM	001	MILL	6.500	2.340	15.210
RHS RAD BOX 100 x 50 x 3MM (6MM R/C)	001	MILL	6.500	2.279	14.814
RHS RAD BOX 100 x 50 x 6MM	001	MILL	6.500	4.332	28.158
RHS RAD BOX 101.6 x 76.2 x 2.29MM	001	MILL	6.100	2.104	12.834
RB1 PURLIN 100x50x1.6MM	001	MILL	4.000	1.273	5.092
	001	MILL	5.000	1.273	6.365
	001	MILL	6.000	1.273	7.638
RB2 PURLIN 76.2x50.8x1.6MM	001	MILL	6.500	1.070	6.955
RB4 PURLIN 100x50x3MM	001	MILL	6.100	2.341	14.280
	001	MILL	6.500	2.341	15.217
RHS RAD BOX 150 x 50 x 3MM	001	MILL	6.500	3.092	20.098
RB6 PURLIN 150x50x3MM	001	MILL	6.100	3.154	19.239
	001	MILL	6.500	3.154	20.501
RB8 PURLIN 200 x 50 x 3MM	001	MILL	2.000	3.967	7.934
	001	MILL	3.250	3.967	12.893

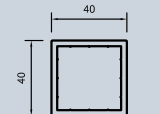
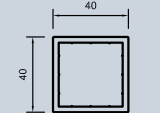
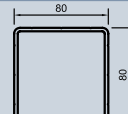
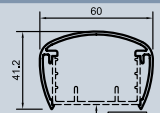
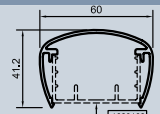
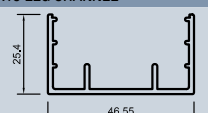
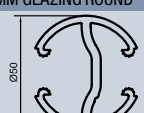
FENCING & BALUSTRAD

ItemName	Colour Code	Description	Length	Mass / Metre	Mass per Length
EXT. TUBE 16 x 1.2MM T6	001	MILL	1.195	0.151	0.180
EXT. TUBE 16 x 1.2MM T6	001	MILL	1.201	0.151	0.181
EXT. TUBE 16 x 1.2MM T6	001	MILL	6.100	0.151	0.921
EXT.TUBE 15.88 x 1.6MM	001	MILL	1.195	0.195	0.233
EXT.TUBE 15.88 x 1.42MM 6063T6	001	MILL	6.100	0.175	1.068
EXT.TUBE 16 x 1.2MM	001	MILL	6.100	0.151	0.921
EXT.TUBE 16 x 1.6MM	001	MILL	6.000	0.196	1.176
EXT.TUBE 16 x 1.6MM	001	MILL	6.400	0.196	1.254
EXT.TUBE 16 x 1.6MM	001	MILL	6.500	0.196	1.274
EXT.TUBE 16 x 1.6MM 6060T591	001	MILL	6.000	0.196	1.176
EXT.TUBE 19 x 1.2MM 6061 T6	001	MILL	1.201	0.182	0.219
EXT.TUBE 19 x 1.2MM 6061 T6	001	MILL	6.100	0.182	1.110
EXT.TUBE 19 x 1.6MM	001	MILL	6.000	0.237	1.422
EXT.TUBE 19 x 1.6MM	001	MILL	7.200	0.237	1.706
LOOPED TUBE 16 x 1.2MM 90.8CTRS	001	MILL	2.450	0.151	0.370
RHS RAD BOX 38 x 25 x 1.5MM	001	MILL	4.900	0.470	2.303
RHS RAD BOX 38 x 25 x 1.5MM	001	MILL	6.500	0.470	3.055
RHS RAD BOX 38 x 25 x 1.5MM 6060 T6	001	MILL	6.100	0.470	2.867
RHS RAD BOX 38 x 25 x 2MM	001	MILL	6.000	0.624	3.744
RHS RAD BOX 38.1 x 25.4 x 1.5MM	001	MILL	6.000	0.472	2.832
RHS RAD BOX 38.1 x 25.4 x 2.5MM	001	MILL	6.070	0.772	4.686
RHS RAD 38 x 25x1.5MM D/P16.7/90MM CTR	001	MILL	2.400	0.472	1.133
RHS RAD 38 x 25x1.5MM D/P16.7/90MM CTR	001	MILL	2.475	0.472	1.168
RHS RAD 38 x 25x1.5MM S/P16.7/90MM CTR	001	MILL	2.400	0.472	1.133
RHS RAD 38 x 25x1.5MM S/P16.7/90MM CTR	001	MILL	2.475	0.472	1.168
RHS RAD 38 x 25 x 1.5MM D/P 100MM CTRS	001	MILL	2.400	0.472	1.133
RHS RAD 38 x 25 x 1.5MM S/P 100MM CTRS	001	MILL	2.400	0.472	1.133
BOX RADIUS 25MM x 1.5MM	001	MILL	6.000	0.382	2.292
BOX RADIUS 40MM x 2MM	001	MILL	6.500	0.801	5.207
BOX RADIUS 40MM x 2MM	001	MILL	6.500	0.803	5.220
BOX RADIUS 40MM x 3MM	001	MILL	6.500	1.192	7.748
BOX RADIUS 50.8MM x 1.6MM	001	MILL	6.500	0.908	5.902
BOX RADIUS 50.8MM x 2.03MM	001	MILL	5.410	1.008	5.453
BOX RADIUS 50.8MM x 2.03MM	001	MILL	6.500	1.008	6.552
BOX RADIUS 50.8MM x 2.03MM	001	MILL	7.200	1.008	7.258
BOX RADIUS 50.8MM x 2MM	001	MILL	6.000	1.008	6.048
BOX RADIUS 50.8MM x 3.18MM	001	MILL	6.500	1.598	10.387
BOX RADIUS 50.8MM x 3MM	001	MILL	6.500	1.487	9.666
BOX RADIUS 50.8MM x 3MM 6106 T6	001	MILL	6.100	1.487	9.071
BOX RADIUS 50MM x 1.8MM	001	MILL	1.800	0.898	1.616
BOX RADIUS 50MM x 1.8MM	001	MILL	2.100	0.898	1.886
BOX RADIUS 50MM x 1.8MM	001	MILL	6.500	0.898	5.837
BOX RADIUS 50MM x 1.8MM	059	SATIN BLACK	1.800	0.898	1.616
BOX RADIUS 50MM x 1.8MM	059	SATIN BLACK	2.100	0.898	1.886

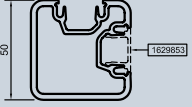
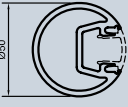
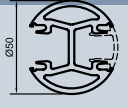
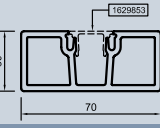
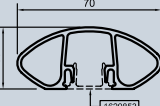
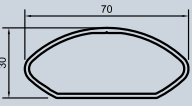
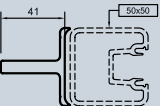
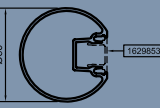
ItemName	Colour Code	Description	Length	Mass / Metre	Mass per Length
BOX RADIUS 50MM x 2MM	001	MILL	6.500	0.986	6.409
BOX RADIUS 50MM x 5.0MM	001	MILL	6.500	2.349	15.269
BOX RADIUS 50 x 50 x 3.0MM	001	MILL	6.500	1.466	9.529
BOX RADIUS 65MM x 3MM	001	MILL	6.500	2.016	13.104
RHS BOX 38.1 x 25.4 x 2.54MM	001	MILL	6.500	0.801	5.207
DURA SLAT 65 x 16 x 1.4MM	001	MILL	3.600	0.578	2.081
DURA SLAT 65 x 16 x 1.4MM	001	MILL	5.400	0.578	3.121
DURA SLAT 65 x 16 x 1.4MM	001	MILL	6.500	0.578	3.757
CHANNEL 20 x 20 x 1.6MM	001	MILL	6.000	0.246	1.476
CHANNEL 20 x 20 x 1.6MM	001	MILL	6.500	0.246	1.599
FP1 FENCE POST	001	MILL	6.500	1.084	7.046
					
FP2 90 DEG FENCE POST	001	MILL	6.500	1.269	8.249
					
FP3 180 DEG FENCE POST	001	MILL	6.500	1.269	8.249
					
RHS RAD BOX 100 x 16 x 1.2MM WITH WEB	001	MILL	6.500	0.780	5.070
RHS RAD BOX 50 x 25 x 3MM	001	MILL	6.500	1.101	7.157
RHS RAD BOX 50.8 x 11 x 1.3MM	001	MILL	6.500	0.407	2.646
RHS RAD BOX 50.8 x 25.4 x 2.5MM	001	MILL	6.500	0.960	6.240
RHS RAD BOX 50.8 x 25.4 x 2.5MM	002	10UM CLEAR ANODISED	6.500	0.960	6.240
RHS RAD BOX 65 x 16 x 1.2MM	001	MILL	6.500	0.498	3.237
RHS RAD BOX 65 x 16 x 1.4MM	001	MILL	6.500	0.576	3.744
RHS RAD.BOX 38 x 25 x 1.5MM BA1	001	MILL	6.000	0.472	2.832
RHS RAD.BOX 38.1 x 25.4 x 1.6MM	001	MILL	7.300	0.516	3.767
Q4186 HANDRAIL CAP	001	MILL	6.000	0.842	5.052
					
Q5108 A/FOIL GLAZ RAIL B.JG	001	MILL	6.800	1.069	7.269
					

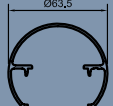
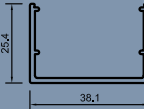
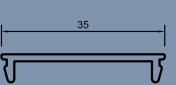
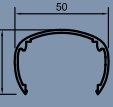
FENCING & BALUSTRAD

ItemName	Colour Code	Description	Length	Mass / Metre	Mass per Length
GATE FRAME 40 x 24MM TR	001	MILL	6.500	0.820	5.330
					
Q4328 20MM GATE TRACK	001	MILL	6.000	1.329	7.974
					
Q4588 14MM SLIDING GATE TRACK	001	MILL	6.000	1.428	8.568
					
HR1 60MM TOPRAIL	001	MILL	6.000	0.686	4.116
					
HR1 60MM TOPRAIL	001	MILL	6.500	0.686	4.459
					
HR1 60MM TOPRAIL	002	10UM CLEAR ANODISED	6.000	0.686	4.116
					
HR10 40MM STRUCTURAL POST	001	MILL	6.000	1.209	7.254
					

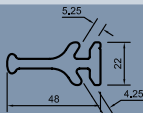
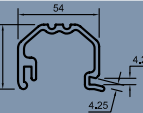
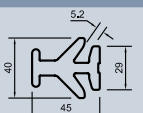
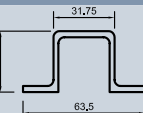
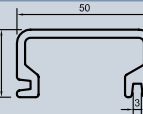
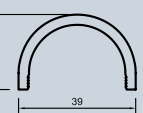
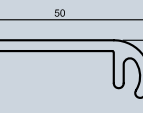
ItemName	Colour Code	Description	Length	Mass / Metre	Mass per Length
HR10 40MM STRUCTURAL POST	001	MILL	6.400	1.209	7.738
					
HR10 40MM STRUCTURAL POST	002	10UM CLEAR ANODISED	6.000	1.209	7.254
					
HR12 80MM POST	001	MILL	6.300	2.447	15.416
					
HR15 60MM OVAL RAIL CAP	001	MILL	6.000	0.672	4.032
					
HR15 60MM OVAL RAIL CAP	002	10UM CLEAR ANODISED	6.000	0.672	4.032
					
HR16 LEG CHANNEL	001	MILL	6.500	0.495	3.218
					
HR18 50MM GLAZING ROUND	001	MILL	4.400	1.483	6.525
					
HR18 50MM GLAZING ROUND	001	MILL	5.400	1.483	8.008
					

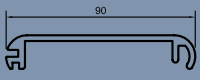
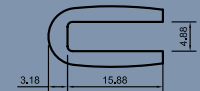
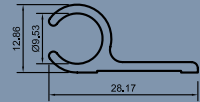
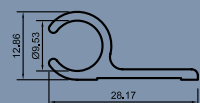
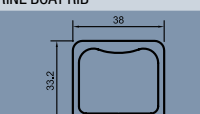
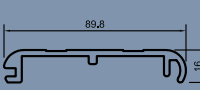
FENCING & BALUSTRAD

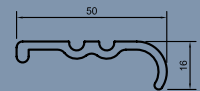
ItemName	Colour Code	Description	Length	Mass / Metre	Mass per Length
HR7297 50MM SQ/2WAY 90DEG GLAZ POST	001	MILL	6.000	1.658	9.948
					
HR7326 50MM RND/1 WAY GLAZ POST	001	MILL	6.000	1.562	9.372
					
HR7331 50MM RND/2 WAY 180DEG GL/ PST	001	MILL	6.000	1.743	10.458
					
HR7334 70 x 30 CENTRE GLAZED POST	001	MILL	6.500	1.809	11.759
					
HR7411 ELLIPTICAL GLAZING RAIL	001	MILL	6.500	1.031	6.702
					
HR7422 ELLIPTICAL H/RAIL	001	MILL	6.500	0.782	5.083
					
HR7439 50MM SQ. POST GATE ADAPT	001	MILL	6.500	1.267	8.236
					
HR7468 50MM RND HALF POST	001	MILL	6.000	0.930	5.580
HR7540 HANDRAIL 60MM TOP RAIL	001	MILL	6.500	1.160	7.540
					

ItemName	Colour Code	Description	Length	Mass / Metre	Mass per Length
HR9 16 x 16MM BOX	001	MILL	5.150	0.231	1.190
HR9 16 x 16MM BOX	001	MILL	6.300	0.231	1.455
Q1808 HANDRAIL CAP	001	MILL	6.500	0.892	5.798
					
Q1811 HANDRAIL CHANNEL	001	MILL	6.500	0.386	2.509
					
Q1812 HANDRAIL INFILL	001	MILL	3.000	0.179	0.537
					
Q1867 HANDRAIL CAP	001	MILL	6.000	0.500	3.000
					
Q3674 BALLISTER	001	MILL	6.500	0.266	1.729
					

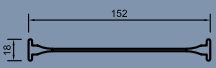
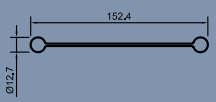
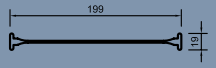
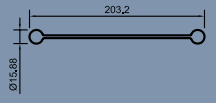
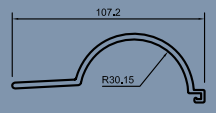
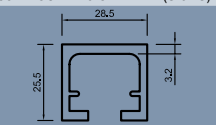
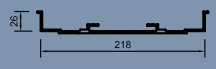
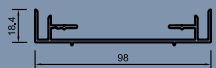
MARINE

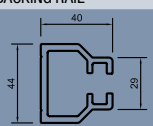
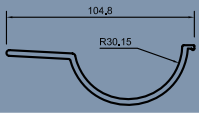
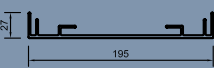
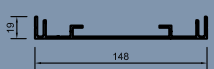
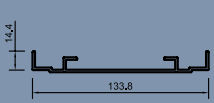
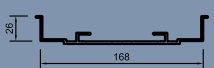
Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
Common Channels					
CHANNEL R/C 40 x 20 x 3.0MM	001	MILL	6.500	0.591	3.842
CHANNEL R/C 60 x 32 x 3.0MM	001	MILL	6.500	0.949	6.169
Bendable Tubes					
EXT.TUBE 25 x 3MM 6060 T591	001	MILL	6.500	0.562	3.653
EXT.TUBE 32 x 3MM	001	MILL	6.500	0.741	4.817
EXT.TUBE 32 x 3MM 6060 T591	001	MILL	6.000	0.737	4.422
Marine Extrusions					
BOAT CHINE 4.25 & 5.25MM	001	MILL	6.000	1.214	7.284
					
BOAT GUNWHALE 4.25MM	001	MILL	6.500	1.447	9.406
					
BOAT KEEL	001	MILL	6.200	2.326	14.421
					
Q1633 TOP HAT	001	MILL	5.000	0.948	4.740
					
E53192 CHANNEL GUNNEL	001	MILL	6.500	0.959	6.234
					
EU9824 MARINE GUNWALE 39MM	001	MILL	6.500	0.617	4.011
					
FLAT BOAT FACIA 50MM	001	MILL	6.500	0.591	3.842
					

Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
FLAT BOAT FASCIA 90MM	001	MILL	4.600	1.003	4.614
					
H1600 TRIM SECTION	001	MILL	5.000	0.266	1.330
					
H7644 (AL3648) SAIL TRACK	001	MILL	6.000	0.231	1.386
					
H7644 (AL3648) SAIL TRACK	001	MILL	6.500	0.231	1.502
					
L6422 MARINE CHINE	001	MILL	6.000	0.832	4.992
					
MARINE BOAT RIB	001	MILL	6.000	1.100	6.600
					
PP1 OYSTER PUNT	001	MILL	6.000	3.450	20.700
					
Q3462 INT BOAT COAMING	001	MILL	6.000	1.096	6.576
					

Description	Colour Code	Finish	Length	Mass / Metre	Mass per Length
RIBBED BOAT FACIA 50MM	001	MILL	6.500	0.534	3.471
					
Marine Sheet, Coil & Plate					
SHEET 3.0 x 1200 x 6100MM 5083 H321	001	MILL		58.414	-
SHEET 4.0MM x 1200 x 6100MM 5083 H116	001	MILL		77.900	-
SHEET 4.0MM x 1200 x 6100MM 5052 H32	001	MILL		79.350	-
COIL 1.6MM x 1200MM 5052 H32	001	MILL			
COIL 2.0MM x 1200 5052 H32	001	MILL			
COIL 3.0MM x 1200 5052 H32	001	MILL			

SIGNAGE

ItemName	Colour Code	Description	Length	Mass / Metre	Mass per Length
152 x 18MM T EDGE SIGN BLADE 6063 T6	001	MILL	6.000	1.324	7.944
					
152.4 x 12.7MM SIGN BLADE 6063 T6	001	MILL	6.000	1.383	8.298
					
90 x 30MM BARRIER BOARD 6063 T6	001	MILL	6.500	1.817	11.811
					
199 x 19MM T EDGE SIGN BLADE 6063 T6	001	MILL	6.000	1.770	10.620
					
200 x 12.7MM SIGN BLADE 6063 T6	001	MILL	6.000	1.769	10.614
					
203 x 15.88MM HD SIGN BLADE 6063 T6	001	MILL	6.000	2.545	15.270
					
FEMALE POST BRACKET 6063 T6	001	MILL	6.000	1.172	7.032
					
8891 MOUNTING CHANNEL (SIGNS) 6063 T6	001	MILL	6.000	0.696	4.176
					
SS4 250MM SIGN BOX (N5142)	001	MILL	6.000	2.342	14.052
					
SS5 100MM SIGN BOX (N9033)	001	MILL	6.000	0.787	4.722
					

ItemName	Colour Code	Description	Length	Mass / Metre	Mass per Length
K8891 MOUNTING CHANNEL (SIGNS) 6063 T6	001	MILL	6.500	0.696	4.524
LARGE BACKING RAIL	001	MILL	6.500	1.358	8.827
					
MALE POST BRACKET 6063 T6	001	MILL	6.000	1.141	6.846
					
ME30739 195MM SIGN BOX	001	MILL	6.000	2.309	13.854
					
SS1 150MM SIGN BOX (N6532)	001	MILL	6.000	1.261	7.566
					
SS10 50MM JOINER (N5150)	001	MILL	6.000	0.627	3.762
					
SS2 150MM SIGN BOX (N7830)	001	MILL	6.000	1.015	6.090
					
SS3 200MM SIGN BOX (N7831)	001	MILL	6.000	1.763	10.578
					

Road Sign Sheet

SHEET 1.55MM x 1200 x 2400MM 5052 H38	057	LINISHED BOTH SIDES	11.963
SHEET 1.55MM x 1200 x 3000MM 5052 H38	057	LINISHED BOTH SIDES	14.954
SHEET 1.55MM x 750 x 3000MM 5052 H38	057	LINISHED BOTH SIDES	9.347
SHEET 1.55MM x 900 x 2400MM 5052 H38	057	LINISHED BOTH SIDES	8.972
SHEET 1.6MM x 1200 x 1800MM 5052 H38	001	MIL	9.370
SHEET 1.6MM x 1200 x 2400MM 5052H38	001	MIL	12.349
SHEET 1.6MM x 750 x 3000MM 5052 H38	001	MIL	9.648
SHEET 1.6MM x 900 x 2400MM 5052 H38	001	MIL	9.262
SHEET 1.6MM x 900 x 1800MM 5052 H38	001	MIL	7.024

Aluminium Composite Panel

3.0mm x 1220 x 2440 Signbond	White Gloss / W Satin
3.0mm x 1220 x 3050 Signbond	White Gloss / W Satin
3.0mm x 1500 x 3050 Signbond	White Gloss / W Satin
4.0mm x 1220 x 2440 Signbond	White Gloss / W Satin

ALUMINIUM SHEET, COIL & TREAD PLATE

Description	Colour Code	Finish	KG/ Sheet
5005 Range			
SHEET 0.6MM x 1200 x 2400MM 5005	001	MILL	4.683
SHEET 0.7MM x 1200 x 1950MM STUCCO	001	MILL	4.420
SHEET 0.8MM x 1200 x 2400MM 5005	001	MILL	6.244
SHEET 0.8MM x 1200 x 2400MM 5005	044	PVC ONE SIDE	6.244
SHEET 1.0MM x 1200 x 2400MM 5005	001	MILL	7.776
SHEET 1.0MM x 1200 x 2400MM 5005	044	PVC ONE SIDE	7.776
SHEET 1.0MM x 1200 x 2400MM 5005	047	WHITE P/C ONE SIDE	7.776
SHEET 1.2MM x 1200 x 2400MM 5005	001	MILL	9.331
SHEET 1.2MM x 1200 x 2400MM 5005	009	WHITE ONE SIDE PV	9.331
SHEET 1.2MM x 1200 x 2400MM 5005	044	PVC ONE SIDE	9.331
SHEET 1.2MM x 1200 x 2400MM 5005	047	WHITE P/C ONE SIDE	9.331
SHEET 1.2MM x 1200 x 3000MM 5005	001	MILL	11.660
SHEET 1.2MM x 1200 x 3000MM 5005	009	WHITE ONE SIDE PV	11.660
SHEET 1.2MM x 1200 x 3600MM 5005	001	MILL	14.000
SHEET 1.2MM x 1200 x 3600MM 5005	009	WHITE ONE SIDE PVC	14.000
SHEET 1.2MM x 1200 x 3600MM 5005	044	PVC ONE SIDE	14.000
SHEET 1.5MM x 1200 x 2400MM 5005	044	PVC ONE SIDE	11.720
SHEET 1.5MM x 1200 x 3000MM 5005	044	PVC ONE SIDE	14.634
SHEET 1.5MM x 1200 x 3600MM 5005	044	PVC ONE SIDE	17.600
SHEET 1.6MM x 1200 x 2400MM ELGEE	044	PVC ONE SIDE	12.440
SHEET 1.6MM x 1200 x 2400MM 5005 H34	001	MILL	12.440
SHEET 1.6MM x 1200 x 2400MM 5005 H34	044	PVC ONE SIDE	12.440
SHEET 1.6MM x 1200 x 2400MM 5005 H34	047	WHITE P/C ONE SIDE	12.440
SHEET 1.6MM x 1200 x 3000MM 5005	001	MILL	15.550
SHEET 1.6MM x 1200 x 3000MM 5005	044	PVC ONE SIDE	15.550
SHEET 1.6MM x 1200 x 3000MM 5005 H34	001	MILL	15.437
SHEET 1.6MM x 1200 x 3600MM 5005	001	MILL	18.660
SHEET 1.6MM x 1200 x 3600MM 5005	044	PVC ONE SIDE	18.660
SHEET 1.6MM x 1200 x 3600MM 5005A AQ	001	MILL	18.730
SHEET 1.6MM x 1500 x 3000MM 5005	001	MILL	19.440
SHEET 1.6MM x 1500 x 3600MM 5005	001	MILL	23.414
SHEET 1.6MM x 900 x 1800MM 5005	001	MILL	7.000
SHEET 1.6MM x 900 x 1800MM 5005	044	PVC ONE SIDE	7.000
SHEET 2.0MM x 1200 x 2400MM 5005	001	MILL	15.552
SHEET 2.0MM x 1200 x 2400MM 5005	044	PVC ONE SIDE	15.552
SHEET 2.0MM x 1200 x 3000MM 5005	001	MILL	19.440
SHEET 2.0MM x 1200 x 3000MM 5005	044	PVC ONE SIDE	19.440
SHEET 2.0MM x 1200 x 3600MM 5005	001	MILL	23.328
SHEET 2.0MM x 1200 x 3600MM 5005	044	PVC ONE SIDE	23.328
SHEET 2.0MM x 1500 x 2400MM 5005	001	MILL	19.512
SHEET 2.0MM x 1500 x 3000MM 5005	001	MILL	24.390
SHEET 2.0MM x 1500 x 3600MM 5005	001	MILL	29.268
SHEET 2.5MM x 1200 x 2440MM 5005H34	044	PVC ONE SIDE	19.758
SHEET 2.5MM x 1200 x 2400MM 5005	001	MILL	19.440
SHEET 2.5MM x 1200 x 2400MM 5005	044	PVC ONE SIDE	19.440
SHEET 3.0MM x 1200 x 2440MM 5005H34	044	PVC ONE SIDE	23.900
SHEET 3.0MM x 1200 x 2400MM 5005	001	MILL	23.328
SHEET 3.0MM x 1200 x 2400MM 5005	044	PVC ONE SIDE	23.328
SHEET 3.0MM x 1200 x 3000MM 5005	001	MILL	29.160
SHEET 3.0MM x 1200 x 3600MM 5005	001	MILL	34.992
SHEET 3.0MM x 1200 x 3600MM 5005	044	PVC ONE SIDE	34.992
SHEET 3.0MM x 1500 x 2400MM 5005	001	MILL	29.268

Description	Colour Code	Finish	KG/ Sheet
SHEET 3.0MM x 1500 x 3000MM 5005	001	MILL	36.450
SHEET 3.0MM x 1500 x 3000MM 5005	044	PVC ONE SIDE	36.450
SHEET 3.0MM x 1500 x 3600MM 5005	001	MILL	43.902
SHEET 3.0MM x 1500 x 3600MM 5005	044	PVC ONE SIDE	43.902
SHEET 4.0MM x 1200 x 2400MM 5005	001	MILL	31.104
SHEET 4.0MM x 1200 x 3600MM 5005	001	MILL	46.656
SHEET 4.0MM x 1500 x 3000MM 5005	001	MILL	48.780
SHEET 5.0MM x 1200 x 2400MM 5005	001	MILL	38.880
SHEET 6.0MM x 1200 x 2400MM 5005	001	MILL	46.656
STUCCO 0.6MM x 1200 x 2400MM 5005	001	Stucco Embossed MF	4.660
Anodising Quality B57S & Clear Anodised Sheet Range			
SHEET 1.0MM x 1200 x 2400MM 5005	0F4	15UM CLEAR AN.1 SIDE	7.776
SHEET 1.2MM x 1200 x 2400MM 5005	008	20UM CLEAR	9.331
SHEET 1.2MM x 1200 x 2400MM 5005	0V9	15UM CLR/PVC COATED	9.331
SHEET 1.2MM x 1200 x 3000MM 5005	008	20UM CLEAR	11.660
SHEET 1.2MM x 1200 x 3600MM 5005	008	20UM CLEAR	14.000
SHEET 1.2MM x 1200 x 3600MM 5005	0V9	15UM CLR/PVC COATED	14.000
SHEET 1.2MM x 1200 x 2400MM 5005 B57S	0F4	15UM CLEAR AN.1 SIDE	9.366
SHEET 1.2MM x 1200 x 2400MM 5005 B57S	0V9	15UM CLR/PVC COATED	9.366
SHEET 1.2MM x 1200 x 3000MM 5005 B57S	001	MILL	11.707
SHEET 1.2MM x 1200 x 3000MM 5005 B57S	0F4	15UM CLEAR AN.1 SIDE	11.707
SHEET 1.2MM x 1200 x 3000MM 5005 B57S	0V9	15UM CLR/PVC COATED	11.707
SHEET 1.2MM x 1200 x 3600MM 5005 B57S	0F4	15UM CLEAR AN.1 SIDE	14.049
SHEET 1.2MM x 1200 x 3600MM 5005 B57S	0V9	15UM CLR/PVC COATED	14.049
SHEET 1.6MM x 1200 x 2400MM 5005 H14 AQ	093	25UM CLEAR	12.442
SHEET 1.6MM x 1200 x 2400MM 5005 H34	008	20UM CLEAR	12.440
SHEET 1.6MM x 1200 x 2400MM 5005 H34	041	10UM CLEAR BOTH SIDE	12.440
SHEET 1.6MM x 1200 x 2400MM 5005 H34	093	25UM CLEAR	12.440
SHEET 1.6MM x 1200 x 2400MM 5005A AQ	0V9	15UM CLR/PVC COATED	12.350
SHEET 1.6MM x 1200 x 3000MM 5005	093	25UM CLEAR	15.550
SHEET 1.6MM x 1200 x 3000MM 5005	0F4	15UM CLEAR AN.1 SIDE	15.550
SHEET 1.6MM x 1200 x 3000MM 5005 H34	0V9	15UM CLR/PVC COATED	15.437
SHEET 1.6MM x 1200 x 3600MM 5005	0F4	15UM CLEAR AN.1 SIDE	18.660
SHEET 1.6MM x 1200 x 3600MM 5005 H14 AQ	093	25UM CLEAR	18.662
SHEET 1.6MM x 1200 x 3600MM 5005A AQ	0V9	15UM CLR/PVC COATED	18.730
SHEET 2.0MM x 1200 x 2400MM 5005	0F4	15UM CLEAR AN.1 SIDE	15.552
SHEET 3.0MM x 1200 x 2400MM 5005	0F4	15UM CLEAR AN.1 SIDE	23.328
5052 Range			
SHEET 1.0MM x 1200 x 2400MM 5052H32	001	MILL	7.805
SHEET 1.2MM x 1200 x 2400MM 5052H32	001	MILL	9.297
SHEET 1.2MM x 1200 x 4330MM 5052 H32	001	MILL	17.410
SHEET 1.6MM x 1200 x 1800MM 5052 H38	001	MILL	9.370

ALUMINIUM SHEET, TREAD PLATE & PROPELLOR BRIGHT

Description	Colour Code	Finish	KG/Sheet
SHEET 1.6MM x 1200 x 2400MM 5052H32	001	MILL	12.349
SHEET 1.6MM x 1200 x 2400MM 5052H38	001	MILL	12.349
SHEET 1.6MM x 750 x 3000MM 5052 H38	001	MILL	9.648
SHEET 1.6MM x 900 x 1800MM 5052 H38	001	MILL	7.024
SHEET 1.6MM x 900 x 2400MM 5052 H38	001	MILL	9.262
SHEET 2.0MM x 1200 x 2400MM 5052H32	001	MILL	15.610
SHEET 2.5MM x 1200 x 2400MM 5052H32	001	MILL	19.368
SHEET 2.5MM x 1500 x 2400MM 5052/ H32	001	MILL	24.390
SHEET 2.5MM x 1500 x 3000MM 5052H32	001	MILL	30.488
SHEET 2.5MM x 1500 x 3000MM 5052H32	044	PVC ONE SIDE	30.488
SHEET 3.0MM x 1200 x 2400MM 5052H32	001	MILL	23.242
SHEET 3.0MM x 1200 x 2400MM 5052H32	044	PVC ONE SIDE	23.242
SHEET 3.0MM x 1200 x 6000MM 5052 H32	001	MILL	58.104
SHEET 2.0MM x 1200 x 3000MM 5251H32	001	MILL	19.297
SHEET 3.0MM x 1200 x 3600MM 5251H32	001	MILL	35.122
SHEET 3.0MM x 1500 x 2500MM 5251H32	001	MILL	30.488
SHEET 4.0MM x 1200 x 2400MM 5251H32	001	MILL	30.876
SHEET 4.0MM X 1200 X 6100MM 5052 H32	001	MILL	79.350
5083 Plate Range			
SHEET 3.0 x 1200 x 2400MM 5083 H116	001	MILL	22.982
SHEET 3.0 x 1200 x 6100MM 5083 H321	001	MILL	58.414
SHEET 3.0MM x 1525 x 6100MM 5083	001	MILL	75.630
SHEET 4.0MM x 1200 x 6100MM 5083 H116	001	MILL	77.900
PLATE 6.0 x 1200 x 2400MM 5083 H321	001	MILL	45.965
PLATE 8.0 x 1200 x 2400MM 5083 H116	001	MILL	62.438
PLATE 10.0 x 1200 x 2400MM 5083 H321	001	MILL	76.608
PLATE 12.0 x 1200 x 2400MM 5083 H116	001	MILL	91.930
PLATE 12.0 x 1200 x 2400MM 5083 H321	001	MILL	93.658
Tread Plate Range			
TREADPLATE 1.6MM x 1200 x 2400MM 5052	001	MILL	13.248
TREADPLATE 1.6MM x 1200 x 2400MM 5052	004	15UM BLACK ANODISED	13.248
TREADPLATE 1.6MM x 1200 x 3600MM 5052	001	MILL	19.872
TREADPLATE 1.6MM x 1500 x 2400MM 5052	001	MILL	16.560
TREADPLATE 2.0MM x 1200 x 2400MM 5251	001	MILL	16.992
TREADPLATE 2.5MM x 1200 x 2400MM 5052	001	MILL	21.312
TREADPLATE 2.5MM x 1500 x 2400MM 5052	001	MILL	26.640
TREADPLATE 3.0MM x 1200 x 2400MM 5052	001	MILL	25.344
TREADPLATE 3.0MM x 1200 x 3600MM 5052	001	MILL	38.016
TREADPLATE 3.0MM x 1500 x 2400MM 5251	001	MILL	31.680
TREADPLATE 3.0MM x 1500 x 3000MM 5251	001	MILL	39.600
TREADPLATE 3.0MM x 1500 x 3600MM 5251	001	MILL	47.520
TREADPLATE 4.0MM x 1200 x 2400MM 5052	001	MILL	33.120
TREADPLATE 5.0MM x 1200 x 2400MM 5052	001	MILL	39.744
TREADPLATE 5.0MM x 1200 x 3600MM 5251	001	MILL	59.616
TREADPLATE 6.0MM x 1200 x 2400MM 5052	001	MILL	47.808
Propeller Plate			
PROPELLER PLATE 1.0 x 1219 x 2438MM	001	MILL	8.544
PROPELLER PLATE 1.6MM x 1219 x 2438MM 3003 H24	001	MILL	13.670
PROPELLER PLATE 2.03MM x 1219 x 2438MM 3003 H24	001	MILL	17.344
PROPELLER PLATE 2.28MM x 1219 x 2438MM	001	MILL	18.600
PROPELLER PLATE 3.18MM x 1219 x 2438MM 3003 H24	001	MILL	27.570
PROPELLER PLATE 4.76MM x 1219 x 2438MM 3003 H24	001	MILL	39.610

FASTENERS - ANCHOR

Including but not limited to

HEAVY DUTY ANCHORS



LIGHT DUTY ANCHORS



MEDIUM DUTY ANCHORS



WERCS AnkaScrew™ Screw-In Anchors



Mechanically Galvanised

Part No.	Anchor Size (mm)	Min. Fixature Thickness (mm)	Anchor Length (mm)	Drilled Hole Ø (mm)	Fixature Hole Ø (mm)	Min. Hole Depth (mm)	Spacer Size (mm)	Order Qty
AS06050WGM100	8	20	50	8	8	50	10	100
AS06075WGM100	8	45	75	8	8	85	10	100
AS06100WGM100	8	70	100	8	8	110	10	100
AS06060WGM100	8	20	60	8	10	75	13	100
AS06075WGM100	8	35	75	8	10	90	13	100
AS06100WGM100	8	60	100	8	10	115	13	100
AS10060WGM50	10	10	60	10	13	80	15	50
AS10075WGM50	10	25	75	10	13	95	15	50
AS10100WGM50	10	50	100	10	13	120	15	50
AS12075WGM50	12	15	75	12	15	100	16	50
AS12100WGM50	12	40	100	12	15	125	16	50
AS12150WGM20	12	90	150	12	15	175	16	20

Zinc Plated

Part No.	Anchor Size (mm)	Min. Fixature Thickness (mm)	Anchor Length (mm)	Drilled Hole Ø (mm)	Fixature Hole Ø (mm)	Min. Hole Depth (mm)	Spacer Size (mm)	Order Qty
AS06050W100	6	20	50	6	8	50	10	100
AS06075W100	6	45	75	6	8	85	10	100
AS06100W100	6	70	100	6	8	110	10	100
AS06060W100	6	20	60	6	10	75	13	100
AS06075W100	6	35	75	6	10	90	13	100
AS06100W100	6	60	100	6	10	115	13	100
AS10060W50	10	10	60	10	13	80	15	50
AS10075W50	10	25	75	10	13	95	15	50
AS10100W50	10	50	100	10	13	120	15	50
AS12075W50	12	15	75	12	15	100	16	50
AS12100W50	12	40	100	12	15	125	16	50
AS12150W20	12	90	150	12	15	175	16	20

FASTENERS - ANCHOR

Including but not limited to



Konstrukt Chemical Anchor is a fast curing, two part polyester injection system for anchoring threaded rod and rebar into concrete.

- Styrene Free
- Low VOC
- Less wastage
- Patented non-cut opening & sealing system

DynaBolt™ Plus Sleeve Anchor Hex Nut - ZINC, GALVANISED & STAINLESS STEEL



Thread Ø	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Hole Ø (mm)	Fixture Hole Diameter (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
M4.5	3	26	6	8	30	23	100
M4.5	12	38	6	8	45	34	100
M4.5	30	57	6	8	55	53	100
M6	6	40	8	10	50	34	100
M6	25	66	8	10	65	60	50
M6	50	92	8	10	75	86	50
M8	3	41	10	12	50	34	50
M8	20	49	10	12	55	42	50
M8	30	76	10	12	65	69	50
M8	50	103	10	12	80	96	25
M8	80	124	10	12	85	117	25
M10	10	55	12	15	70	47	25
M10	15	70	12	15	70	62	25
M10	45	98	12	15	95	90	20
M10	70	126	12	15	95	118	20
M12	6	62	16	19	80	51	20
M12	35	106	16	19	120	95	10
M12	65	140	16	19	120	129	10
M16	8	81	20	24	100	70	10Z / 5GH
M16	25	113	20	24	125	102	5
M16	70	157	20	24	155	146	5



CHEMSET™ Anchor Studs

Material

Grade 5.8 Carbon Steel

Finishes

Zinc electroplate
42 um Hot Dip Galvanised
A4 (316) Stainless Steel

Thread Size	M8	M10	M12	M12	M16	M20	M24
Total Length (mm)	110	130	160	180	190	260	300
Drill Hole Diameter (mm)	10	12	14	14	18	24	26
Drill Hole Depth (mm)	80	90	110	110	125	150	160
Max Fixture Thickness (mm)	15	25	30	50	40	80	105



CHEMSET™ MAXIMA™ Capsules

Material

Grade 5.8 Carbon Steel

Finishes

Zinc electroplate
A4 (316) Stainless Steel

Thread Size	M8	M10	M12	M16	M20	M24
Drill Hole Diameter (mm)	10	12	14	18	24	26
Total Length (mm)	80	83	105	105	115	115
Drill Hole Depth (mm)	80	90	110	125	150	160



FASTENERS - COMMERCIAL

Including but not limited to



FASTENERS - HI TENSILE

Including but not limited to



FASTENERS - EARTHMOVING, WASHERS & LOW TENSILE

Including but not limited to



FASTENERS - NYLON

Including but not limited to



FASTENERS - TRADE PACKS

Including but not limited to



ABRASIVES

Including but not limited to



ABRASIVES

ABRASIVES

Including but not limited to



FILES & RASPS

Including but not limited to



MEASURING & CUTTING TOOLS

Including but not limited to

PRECISION EQUIPMENT



DRILL & DRIVER BITS



TAP & DIES



MEASURING & CUTTING TOOLS

Including but not limited to

HOLE SAW & BAND SAW BLADES



HAND TOOLS

WE OFFER A RANGE OF QUALITY HAND TOOLS BY:

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Proffered
BBI TOOLS



TOOLS

LIFTING & MATERIAL HANDLING

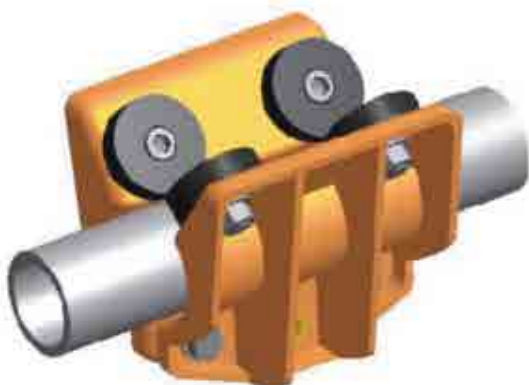
BEAVER
BRANDS

Including but not limited to

SLINGS
LIFTING CHAINS
SHACKLES
MATERIALS HANDLING



LIFTING & MATERIAL HANDLING



ELECTRODES

Including but not limited to

GENERAL PURPOSE ELECTRODES
HYDROGEN CONTROLLED ELECTRODES
STAINLESS STEEL ELECTRODES
SPECIAL ELECTRODES
LOW ALLOY ELECTRODES

MIG WIRES

Including but not limited to

MILD STEEL MIG WIRE
FLUX CORED MIG WIRE
LOW ALLOY MIG WIRE
MILD STEEL PAIL PACKS & ACCESSORIES
ALUMINIUM MIG WIRE PAIL PACKS & ACCESSORIES
HARDFACING MIG WIRE
STAINLESS STEEL MIG WIRE
ALUMINIUM MIG WIRE

TIG & GAS RODS

Including but not limited to

MILD STEEL TIG RODS
STAINLESS STEEL TIG RODS
ALUMINIUM ALLOY TIG RODS
COPPER & COPPER ALLOY TIG RODS
LOW ALLOY TIG RODS
HANDY PACKS
SILVER BRAZING ALLOYS
SOLDER & ZINC ALLOYS

GAS EQUIPMENT

GAS KITS

Including but not limited to



DISPOSABLE GAS BOTTLES

Including but not limited to

BOSSGAS



REGULATORS & ARRESTORS

Including but not limited to



GAS EQUIPMENT

CUTTING & GOUGING NOZZLES

Including but not limited to



WELDING & HEATING TIPS

Including but not limited to



ATTACHMENTS & ACCESSORIES

Including but not limited to



GAS EQUIPMENT

HOSES

Including but not limited to



HOSE FITTINGS

Including but not limited to



FLAME CUTTING MACHINE SPARES

Including but not limited to



MANUAL ARC

ARC LEAD

Including but not limited to



ARC LEAD SETS & ELECTRODE HOLDERS

Including but not limited to



EARTH CLAMPS

Including but not limited to



MANUAL ARC

CABLE LUGS & CONNECTORS

Including but not limited to



ARC ACCESSORIES

Including but not limited to



ELECTRODE DRYING OVENS

Including but not limited to



MACHINES

Including but not limited to



MACHINES

Including but not limited to



MACHINES

Including but not limited to



MACHINE PARTS & ACCESSORIES

Including but not limited to



WELDING & FINISHING

Including but not limited to



HELMETS

Including but not limited to



SAFETY WEAR

Including but not limited to

HEADWEAR



PROTECTIVE GLOVES



EYE PROTECTION & FACE SHIELDS



HEARING PROTECTION



RESPIRATORY PROTECTION



KNEE PADS



CHEMICALS

Including but not limited to

AEROSOLS:

Lubrication and Corrosion Prevention
Coatings & Lacquers
Welding & Metal Treatment
Food Grade
Paints & Corrosion Protection

ADHESIVES & SEALANTS

Structural
Instant
Primers & Accelerators
Epoxies

GREASES & LUBRICANTS

SOLVENTS & CLEANERS



INDUSTRIAL APPLICATIONS



LUBRICATE & PROTECT



CLEANERS & REMOVERS



SOUDAL

CHEMICALS



THORZT HYDRATION

LOW GI & SUGAR FREE AVAILABLE

ICY POLES

POWDER

LIQUID CONCENTRATES

ACCESSORIES:

BOTTLES

COOLERS



WHATEVER YOU NEED

- SHEETS
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- ANGLE
- ROUNDS
- ABRASIVES
- FASTENERS
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CONVERSION TABLES

LENGTH		
From	To	Multiply By
mm	in	0.04
cm	in	0.39
m	ft	3.28
m	yd	1.09
km	mi	0.62

AREA		
From	To	Multiply By
cm²	in²	0.16
m²	yd²	1.20
km²	mi²	0.39
ha	acre	2.47

GRADE T(80) CHAIN SLINGS			
CHAIN DIA.	SINGLE LEG SLINGS		
mm	Straight String	Adjustable	Reeved Sling
6	1.1	0.8	0.8
7	1.5	1.1	1.1
8	2.0	1.5	1.5
10	3.2	2.4	2.4
13	5.3	4.0	4.0
16	8.0	6.0	6.0
20	12.5	9.4	9.4
22	15.0	11.3	11.3
26	21.2	15.9	15.9
32	31.5	23.6	23.6

VOLUME		
From	To	Multiply By
mL	fl oz	0.03
mL	in³	0.06
L	pt	2.11
L	qt	1.06
L	gal	0.26
m³	ft³	35.31
m³	yd³	1.31

TEMPERATURE		
From	To	Multiply By
°C	°F	1.8, add 32
K	°C	Subt 273.15

INCHES TO MILLIMETRES CONVERSION							
IN	MM	IN	MM	IN	MM	IN	MM
1/64	0.3969	33/64	13.0969	1 1/64	25.7969	1 33/64	38.4969
1/32	0.7938	17/32	13.4938	1 1/32	26.1938	1 17/32	38.8938
3/64	1.1906	35/64	13.8906	1 3/64	26.5906	1 35/64	39.2906
1/16	1.5875	9/16	14.2875	1 1/16	26.9875	1 9/16	39.6875
5/64	1.9844	37/64	14.6844	1 5/64	27.3844	1 37/64	40.0844
3/32	2.3813	19/32	15.0813	1 3/32	27.7813	1 19/32	40.4813
7/64	2.7781	39/64	15.4781	1 7/64	28.1781	1 39/64	40.8781
1/8	3.1750	5/8	15.8750	1 1/8	28.5750	1 5/8	41.2750
9/64	3.5719	41/64	16.2719	1 9/64	28.9719	1 41/64	41.6719
5/32	3.9688	21/32	16.6688	1 5/32	29.3688	1 21/32	42.0688
11/64	4.3656	43/64	17.0656	1 11/64	29.7656	1 43/64	42.4656
3/16	4.7625	11/16	17.4625	1 3/16	30.1625	1 11/16	42.8625
13/64	5.1594	45/64	17.8594	1 13/64	30.5594	1 45/64	43.2594
7/32	5.5563	23/32	18.2563	1 7/32	30.9563	1 23/32	43.6563
15/64	5.9531	47/64	18.6531	1 15/64	31.3531	1 47/64	44.0531
1/4	6.3500	3/4	19.0500	1 1/4	31.7500	1 3/4	44.4500
17/64	6.7469	49/64	19.4469	1 17/64	32.1469	1 49/64	44.8469
9/32	7.1438	25/32	19.8438	1 9/32	32.5438	1 25/32	45.2438
19/64	7.5406	51/64	20.2406	1 19/64	32.9406	1 51/64	45.6406
5/16	7.9375	13/16	20.6375	1 5/16	33.3375	1 13/16	46.0375
21/64	8.3344	53/64	21.0344	1 21/64	33.7344	1 53/64	46.4344
11/32	8.7313	27/32	21.4313	1 11/32	34.1313	1 27/32	46.8313
23/64	9.1281	55/64	21.8281	1 23/64	34.5281	1 55/64	47.2281
3/8	9.5250	7/8	22.2250	1 3/8	34.9250	1 7/8	47.6250
25/64	9.9219	57/64	22.6219	1 25/64	35.3219	1 57/64	48.0219
13/32	10.3188	29/32	23.0188	1 13/32	35.7188	1 29/32	48.4188
27/64	10.7156	59/64	23.4156	1 27/64	36.1156	1 59/64	48.8156
7/16	11.1125	15/16	23.8125	1 7/16	36.5125	1 15/16	49.2125
29/64	11.5094	61/64	24.2094	1 29/64	36.9094	1 61/64	49.6094
15/32	11.9063	31/32	24.6063	1 15/32	37.3063	1 31/32	50.0063
31/64	12.3031	63/64	25.0031	1 31/64	37.7031	1 63/64	50.4031
1/2	12.7000	1	25.4000	1 1/2	38.1000	2	50.8000