

# M & S STAINLESS SUPPLIES PTY LTD

*On Time Delivery - Evertime*



# M & S Stainless Supplies P/L

## PRODUCT CATALOGUE



Unit 4 / 2 Stoddart Road Prospect NSW 2148  
PO BOX 396 Seven Hills NSW 2147  
Telephone 02 9896 1799 Facsimile 02 9688 4645  
[Email sales@msstainless.com.au](mailto:sales@msstainless.com.au)  
[Web www.msstainless.com.au](http://www.msstainless.com.au)



## **CONTENTS**

### **UNIONS**

<a href="#">BSM Fittings</a>	<i>Page 5</i>
<a href="#">BSM Unions</a>	<i>Page 6-7</i>
<a href="#">BSM Unions Continued</a>	<i>Page 8</i>
<a href="#">BSM Unions Continued</a>	<i>Page 9</i>
<a href="#">BSM Unions Continued</a>	<i>Page 10</i>
<a href="#">DIN Unions</a>	<i>Page 11</i>
<a href="#">DIN Unions Continued</a>	<i>Page 12</i>
<a href="#">IDF Unions</a>	<i>Page 13</i>
<a href="#">3A Unions</a>	<i>Page 14</i>
<a href="#">SMS Unions</a>	<i>Page 15</i>
<a href="#">Wine Unions</a>	<i>Page 16</i>

### **BSP**

<a href="#">BSP Fittings</a>	<i>Page 17</i>
<a href="#">BSP Fittings Continued</a>	<i>Page 18</i>

### **TRICLOVER**

<a href="#">Clamp and Triclover</a>	<i>Page 19</i>
<a href="#">Triclover Ferrule and Bends</a>	<i>Page 20-21</i>
<a href="#">Clamp and Triclover Fittings</a>	<i>Page 22</i>

### **BENDS**

<a href="#">Bends</a>	<i>Page 23</i>
<a href="#">Bends Tube</a>	<i>Page 24</i>

### **TUBES**

<a href="#">Bends And Dimensions</a>	<i>Page 25-27</i>
<a href="#">Caps Tube</a>	<i>Page 28</i>
<a href="#">Tube Accessories</a>	<i>Page 29-30</i>
<a href="#">Reducers</a>	<i>Page 31</i>
<a href="#">Plain Hosetails</a>	<i>Page 32</i>
<a href="#">Sweep Tee</a>	<i>Page 33</i>
<a href="#">Tube, Cross And Cap</a>	<i>Page 34</i>
<a href="#">Tube Tee</a>	<i>Page 35-38</i>
<a href="#">Tube</a>	<i>Page 39</i>
<a href="#">Tube Continued</a>	<i>Page 40</i>
<a href="#">Misc</a>	<i>Page 41-42</i>

## **CAMLOCKS**

[Camlocks](#)

*Page 43-45*

[Fittings](#)

*Page 46*

## **PIPE**

[Reducers Pipe](#)

*Page 47*

[Elbows Pipe](#)

*Page 48*

[Pipe Equal Tees](#)

*Page 49*

## **FLANGES**

[Flange](#)

*Page 50*

[Metric Flanges](#)

*Page 51*

[Metric Flanges Continued](#)

*Page 52*

[Imperial Flanges](#)

*Page 53*

[Imperial Flanges Continued](#)

*Page 54*

[Imperial Flanges Continued](#)

*Page 55*

[S/S Table Flanges](#)

*Page 56-57*

## **VALVES**

[Ball Valves](#)

*Page 58*

[Ball Valves Continued](#)

*Page 59*

[Ball Valves Continued](#)

*Page 60*

[Valves](#)

*Page 61*

[Valves Continued](#)

*Page 62*

[Valves Continued](#)

*Page 63*

[Valves Continued](#)

*Page 64*

[Valves Butterfly](#)

[Diaphragm Valves](#)

*Page 65*

## **COMPRESSION UNIONS**

[Straight and Elbow](#)

*Page 66*

[Reducing Union and Bulkhead Union](#)

*Page 67*

[Union Tee and Union Cross](#)

*Page 68*

[Male and Female Connector](#)

*Page 69*

[Male and Female Elbow](#)

*Page 70*

## **ACTUATORS**

[Actuators](#)

*Page 71*

## **BAR**

[Bar Round, Flat, Angle, Hexagonal](#)

*Page 72-75*

## **FASTENERS**

[Fasteners](#)

*Page 76-78*

**HINGES**

[Hinge Piano](#)

*Page 79*

**MESH**

[Mesh](#)

*Page 80*

**SHEET**

[Pattern Sheet  
Sheet](#)

**STAIRWAY FITTINGS**

[Ballustrade Examples](#)

[Stairway and Balustrading Terminations, Wire Rope, and](#)

*Page 81-85*

[Galvanised Tie Wire](#)

[Stainless Steel Hardware, Terminal](#)

*Page 86-90*

[Replacements, Rigging Screws and Turnbuckles](#)

[Balustrading Misc. Stainless Steel Hardware,](#)

*Page 91-95*

[Thimbles and Rope Hooks, and Grab Slip and 'S' Hooks](#)

[Stainless Steel Hardware, Hook Hinge and Pad Eyes](#)

*Page 96-99*

**REFERENCE TABLES**

[Pipe](#)

*Page 100*

[Pressures](#)

*Page 101-106*

[Bar](#)

*Page 107-109*

[Pressures](#)

[Tolerances](#)

*Page 110*

**INDEX**

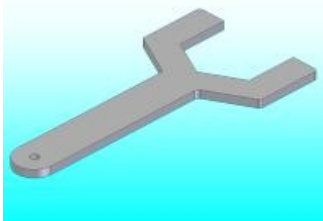
[Index](#)

*Page 111-133*

## BSM FITTINGS

### BSM S/S SPANNER

SIZE
25mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm



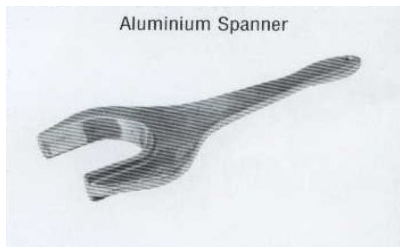
### BSM M&F BEND



SIZE
25mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm

### BSM ALUMINIUM SPANNER

SIZE
25mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm



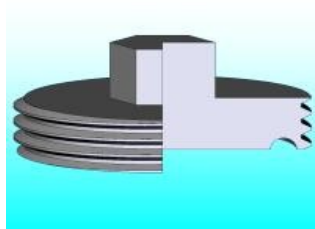
### BSM HOSE LINER



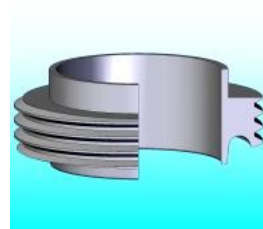
SIZE
25mm
38mm
50mm
63mm
76mm
100mm

### BSM MALE BLANK

SIZE
25mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm



### BSM MALE



SIZE
25mm
38mm
50mm
63mm
76mm
100mm

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

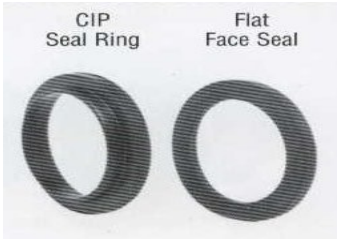
Fax: (02) 9688 4645

Email: sales@msstainless.com.au

## BSM UNIONS

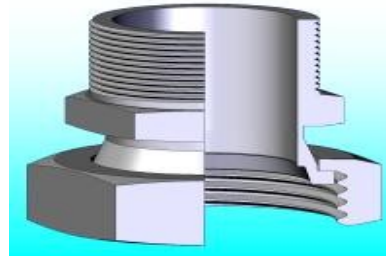
### BSM EPDM O'RING

SIZE
25mm
38mm
50mm
63mm
76mm
100mm
*150mm



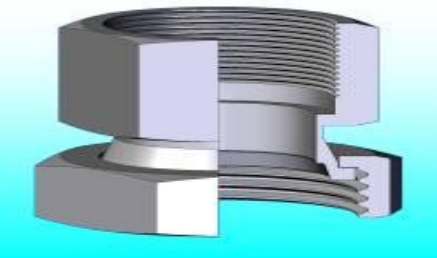
### BSM FEMALE / BSP MALE ADAPTOR

SIZE
12mm
18mm
25mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm



### BSM FEMALE / BSP FEMALE ADAPTOR

SIZE
12mm
18mm
25mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm



### BSM BLANK CAPS

SIZE
25mm
38mm
50mm
63mm
76mm
100mm
150mm



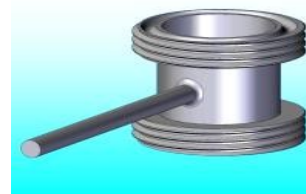
### BSM MALE / BSP FEMALE ADAPTOR

SIZE
12mm
18mm
25mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm



### BSM MALE CONNECTORS

SIZE
25mm
38mm
50mm
63mm
76mm
100mm



### BSM MALE / BSP MALE ADAPTOR

SIZE
12mm
18mm
25mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm



M & S Stainless Supplies

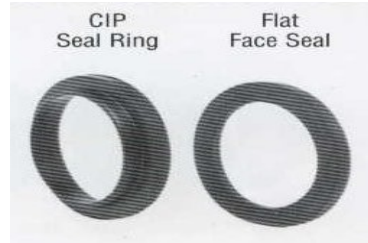
Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: sales@msstainless.com.au

## ***BSM UNIONS CONTINUED***



### **BSM "O" RINGS STANDARD**

SIZE (INCHES)	SIZE (MM)
1"	25
1 1/2"	38
2"	50
2 1/2"	63
3"	76
4"	100
6"	150

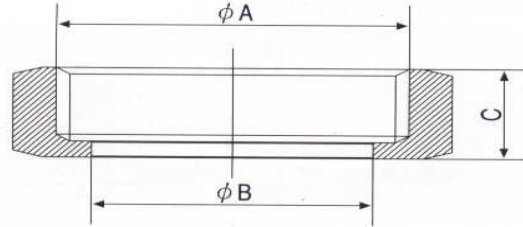
### **BSM "O" RINGS CIPFF**

SIZE (INCHES)	SIZE (MM)
1"	25
1 1/2"	38
2"	50
2 1/2"	63
3"	76
4"	100
6"	150

### BSM UNION CONTINUED

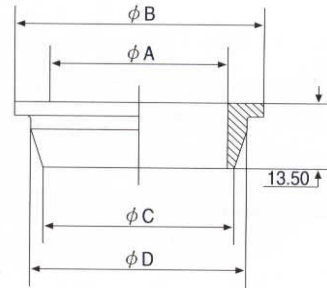
#### RJT Hexagonal Nut RJT-13H

Size	A		B	C
1.0"	42.266 x 8TPI	WHIT	33.45	22.2
1.5"	54.966 x 8TPI	WHIT	46	22.2
2.0"	67.920 x 6TPI	WHIT	58.67	22.2
2.5"	80.620 x 6TPI	WHIT	71.4	22.2
3.0"	93.320 x 6TPI	WHIT	84.1	22.2
4.0"	119.0 X6TPI	WHIT	109.7	22.2



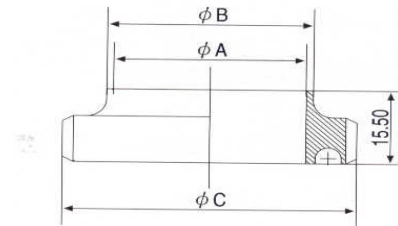
#### CIP Welding Liner CIP-14

Size	A	B	C	D
1.0"	22.2	41.3	25.8	32.5
1.5"	34.9	54	38.5	45.2
2.0"	47.6	66.7	51.2	57.9
2.5"	60.3	79.4	63.9	70.6
3.0"	73	92.1	76.6	83.3
4.0"	97.6	117.5	102.2	108.7



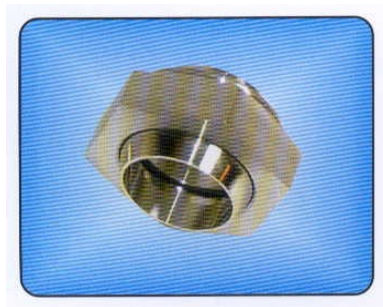
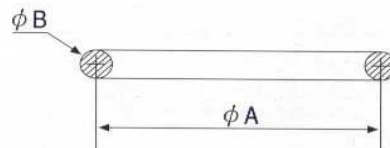
#### CIP Welding Male CIP-15

Size	A	B	C		
1.0"	22.2	25.65	45.72	x 8T	WHIT
1.5"	34.9	38.35	58.42	x 8T	WHIT
2.0"	47.6	51.05	72.72	x 6T	WHIT
2.5"	60.3	63.75	85.42	x 6T	WHIT
3.0"	73	76.45	98.12	x 6T	WHIT
4.0"	97.6	101.85	123.52	x 6T	WHIT



#### Seal Ring

Size	A	B
1"	33.3	6.6
1.5"	46	6.6
2"	58.7	6.6
2.5"	71.4	6.6
3"	84.1	6.6
4"	109.5	6.6

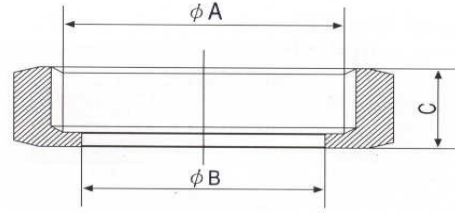




### BSM UNION CONTINUED

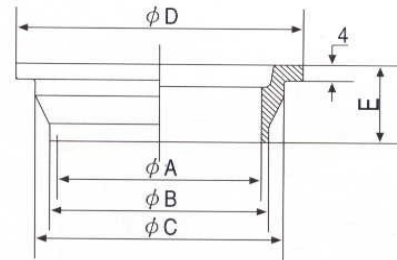
#### RJT Hexagonal Nut RJT-13H

Size	A	B	C
1	42.27 x 8TPI	WHIT	33.45 22.2
1.5	54.97 x 8TPI	WHIT	46 22.2
2	67.92 x 6TPI	WHIT	58.67 22.2
2.5	80.62 x 6TPI	WHIT	71.4 22.2
3	93.32 x 6TPI	WHIT	84.1 22.2
4.0	119.0 x 6TPI	WHIT	109.7 22.2
6	169.53 x 6TPI	WHIT	163 24



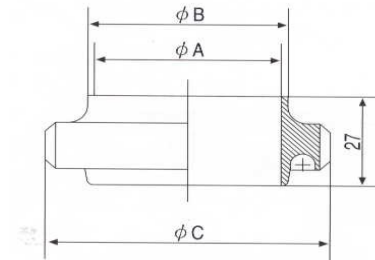
#### RJT Welding Liner RJT-14

Size	A	B	C	D	E
1"	22.2	25.65	32.5	41.3	19.5
1.5"	34.9	38.35	45.2	54.0	19.5
2"	47.6	51.05	57.9	66.7	19.5
2.5"	60.3	63.75	70.6	79.4	19.5
3"	73.0	76.45	83.3	92.1	19.5
4"	97.6	101.85	108.7	117.5	19.5
6"	148	152.5	161.8	169.1	23.5



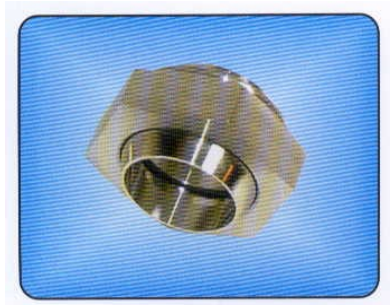
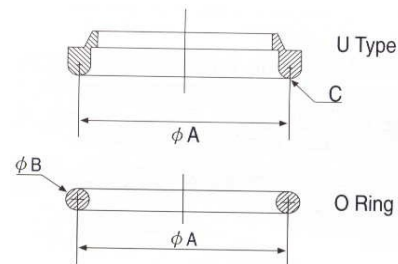
#### RJT Welding Male RJT-15

Size	A	B	c			
1.0"	22.2	25.65	45.72	X	8TPI	WHIT
1.5"	34.9	38.35	58.42	X	8TPI	WHIT
2.0"	47.6	51.05	72.72	X	6TPI	WHIT
2.5"	60.3	63.75	85.42	X	6TPI	WHIT
3.0"	73	76.45	98.12	X	6TPI	WHIT
4.0"	97.6	101.85	123.52	X	6TPI	WHIT
6.0"	148	152.5	174.32	X	6TPI	WHIT



#### RJT Seal Ring (EPDM, Silicon, Viton)

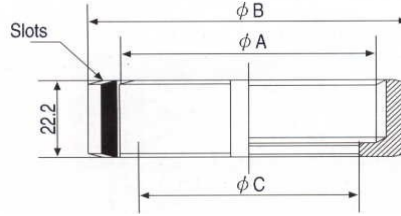
Size	A	B	C
1"	33.3	6.6	3.2
1.5"	46	6.6	3.2
2"	58.7	6.6	3.2
2.5"	71.4	6.6	3.2
3"	84.1	6.6	3.2
4"	109.5	6.6	3.2



### BSM UNION CONTINUED

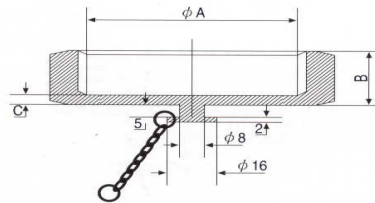
#### RJT Round Nut RJT-13R

Size	A	B	C	Slots
1.0"	42.266 x 8TPI WHIT	58.5	33.45	6
1.5"	54.966 x 8TPI WHIT	74	46	6
2.0"	67.920 x 6TPI WHIT	85.5	58.67	6
2.5"	80.620 x 6TPI WHIT	98.5	71.4	6
3.0"	93.320 x 6TPI WHIT	111.6	84.1	6
4.0"	119.0 X 6TPI WHIT	138	109.7	6
6.0"	169.52 x 6TPI WHIT	197	163	10



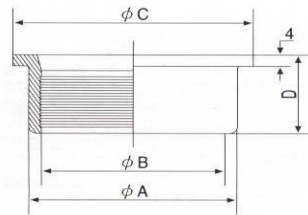
#### RJT Hexagonal Blank Nut RJT-13HBN

Size	A	B	C
1.0"	42.27 x 8TPI WHIT	22.2	4
1.5"	54.97 x 8TPI WHIT	22.2	4
2.0"	67.92 x 6TPI WHIT	22.2	4
2.5"	80.62 X 6TPI WHIT	22.2	4
3.0"	93.32 X 6TPI WHIT	22.2	4
4.0"	118.72 x 6TPI WHIT	22.2	4



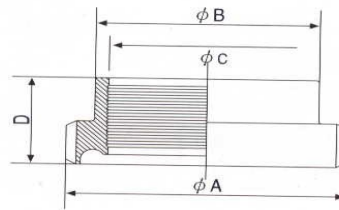
#### RJT Expanding Liner RJT-14R

Size	A	B	C	D
1"	32.5	25.5	41.3	20
1.5"	45.2	38.2	54	24
2"	57.9	50.9	66.7	28
2.5"	70.6	63.6	79.4	32
3"	83.3	76.3	92.1	32
4"	108.7	101.7	117.5	32

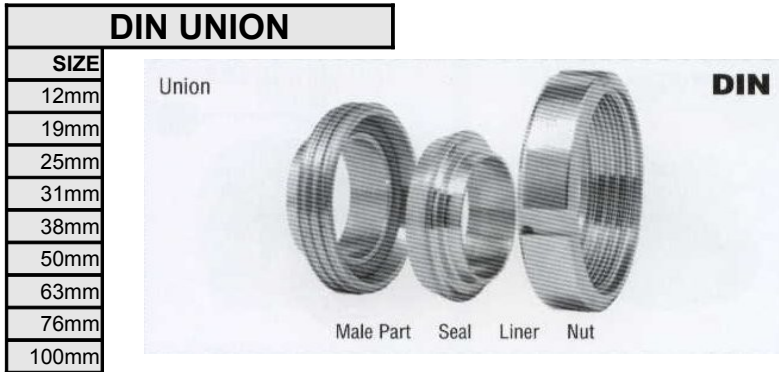


#### RJT Expanding Male RJT-15R

Size	A	B	C	D
1"	45.72x8T WHIT	32.5	25.5	20
1.5"	58.42x8T WHIT	45.2	38.2	24
2"	72.72x6T WHIT	57.9	50.9	28
2.5"	85.42x6T WHIT	70.6	63.6	32
3"	98.12x6T WHIT	83.3	76.3	32
4"	123.82X6T WHIT	108.7	101.7	32

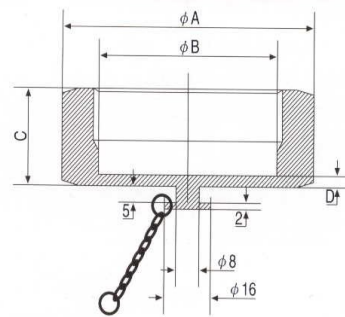


## DIN UNIONS



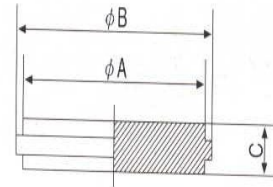
### IDF Blanks Nut IDF-13HBN

Size	A	A	C	D
1.0"	46	34.34 X 8T ACME	30	3.5
1.5"	60	47.86 x 8T ACME	30	3.5
2.0"	75	61.37 x 8T ACME	30	3.5
2.5"	90	74.88 X 8T ACME	30	3.5
3.0"	105	88.40 x 8T ACME	30	3.5
4.0"	133	122.05 x 6T ACME	34.9	4.7



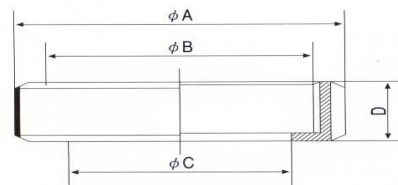
### IDF Blanks IDF-16

Size	A	B	C
1"	29.2	33.8	10.5
1.5"	42.7	47	10.5
2"	56.2	60.5	10.5
2.5"	69.9	74	10.5
3"	82.6	87.5	10.5
4"	111.1	114.1	12.6



### Din Round Nut 4Slots Din-13R

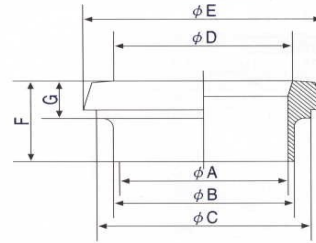
DIN	A		B		C	D
10	38	RD	28 x	1/8	19	18
15	44	RD	34 x	1/8	25	18
20	54	RD	44 x	1/8	31	21
25	63	RD	52 x	1/6	36	21
32	70	RD	58 x	1/6	42	21
40	78	RD	65 x	1/6	49	21
50	92	RD	78 x	1/6	62	22
65	112	RD	95 x	1/6	80	25
80	127	RD	110 x	1/4	94	30
90	138	RD	120 x	1/4	104	30
100	148	RD	130 x	1/4	115	31
125	178	RD	160 x	1/4	138	35
150	210	RD	190 x	1/4	164	40



## DIN UNIONS CONTINUED

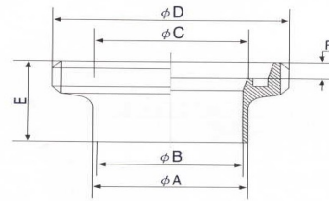
### Din Imperial Welding Liner

Size	A	B	C	D	E	F	G
1.0"	22.2	25.65	35	26	44	22	13
1.5"	34.9	38.35	48	38	56	26	13
2.0"	47.6	51.05	61	50	68	28	14
2.5"	60.3	63.75	79	66	86	32	16
3.0"	73	76.45	93	81	100	37	19
4.0"	97.6	101.85	114	100	121	44	19



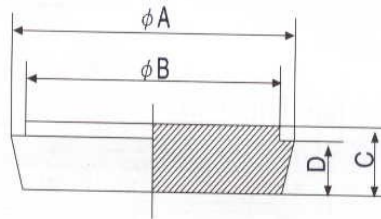
### Din Imperial Welding Male

Size	A	B	C	D	E	F
1.0"	25.65	22.2	26	RD52 x 1/6	29	7
1.5"	38.35	34.9	38	RD65 x 1/6	33	7
2.0"	51.05	47.6	50	RD78 x 1/6	35	7
2.5"	63.75	60.3	66	RD95 x 1/6	40	8
3.0"	76.45	73	81	RD110 x 1/4	45	8
4.0"	101.85	97.6	100	RD130 x 1/4	54	10



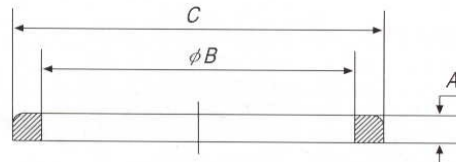
### Din Blanks

Size	A	B	C	D
10	22	18	9	6
15	28	24	9	6
20	36	30	11	8
25	44	35	13	10
32	50	41	13	10
40	56	48	13	10
50	68	61	14	11
65	86	79	16	12
80	100	93	16	12
100	121	114	20	15
125	150	137	22	17
150	176	163	24	18



### Din Seal Ring (EPDN)

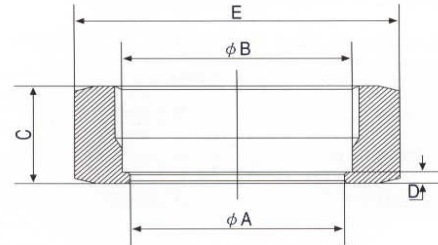
Size	A	B	C
20	4.5	23	33
25	5	30	40
32	5	36	46
40	5	42	52
50	5	54	64
65	5	71	81
80	5	85	95
100	6	104	114



## IDF UNION

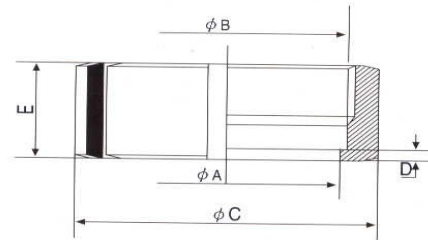
### IDF Hexagonal Nut IDF-13H

Size	A	A	C	D	E
1.0"	30.5	34.34 x 8T ACME	16	3.5	46
1.5"	43.5	47.86 X 8T ACME	16	3.5	60
2.0"	57	61.37 x 8T ACME	16	3.5	75
2.5"	70.7	74.88 x 8T ACME	16	3.5	90
3.0"	83.3	88.40 x 8T ACME	16	3.5	105
4.0"	112	122.05 x 6T ACME	20	4.7	133



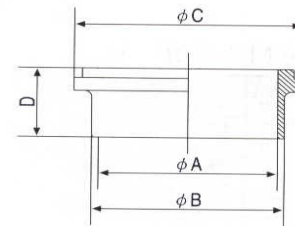
### IDF Round Nut IDF-13R

Size	A	B	C	D	E
1"	30.5	34.34 x 8T ACME	50	3.5	30
1.5"	43.5	47.86 X 8T ACME	65	3.5	30
2"	57	61.37 x 8T ACME	79	3.5	30
2.5"	70.7	74.97 x 8T ACME	95	3.5	30
3"	83.3	88.40 x 8T ACME	108	3.5	30
4"	110	115.41 X 8T ACME	135	4.7	34.9



### IDF Welding Liner IDF-14

Size	A	B	C	D
1.0"	22.2	25.65	33.8	21.5
1.5"	34.9	38.35	47.0	21.5
2.0"	47.6	51.05	60.5	21.5
2.5"	60.3	63.75	74	21.5
3.0"	73	76.45	87.5	21.5
4.0"	97.5	101.85	120.6	30



Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

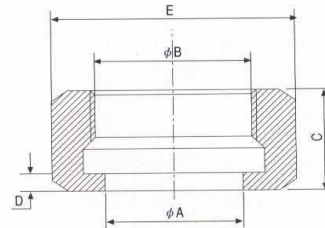
Email: sales@msstainless.com.au

M & S Stainless Supplies

## 3 A UNION

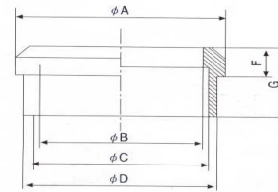
### 3A Hexagonal Nut 3A-13H

Size	A	A	C	D	E
1"	30.3	38.02 ACME 8TPI	23	4	46
1.5"	43.4	51.54 ACME 8TPI	24.6	5.5	61.1
2"	56.5	65.05 ACME 8TPI	27	5.5	76.2
1.5"	69.6	78.56 ACME 8TPI	29.6	5.5	91.3
3"	82.7	92.08 ACME 8TPI	32.5	6.4	106.4
4"	108.9	120.14 ACME 6TPI	38.1	6.4	137.6



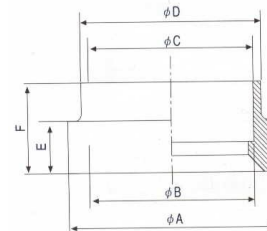
### 3A -Plain Recssless Liner 3A-14R

Size	A	B	C	D	F	G
1"	33.3	22.2	25.5	29.5	7.9	19.1
1.5"	46.8	34.9	38.2	42.6	8.7	22.2
2"	60.3	47.6	50.9	55.7	10.3	24.6
2.5"	73.8	60.3	63.6	68.8	11.1	27
3"	87.3	73	76.3	81.9	11.9	28.6
4"	114.3	97.6	101.7	108.1	14.3	31.8



### 3A Plain Recessless Male 3A-15R

Size	A	B	C	D	E	F
1"	37.13 ACME 8TPI	22.2	25.5	29.5	14.3	20.6
1.5"	50.65 ACME 8TPI	34.9	38.2	42.6	14.3	22.2
2"	64.16 ACME 8TPI	47.6	50.9	55.7	15.1	26.2
2.5"	77.67 ACME 8TPI	60.3	63.6	68.8	18.3	28.6
3"	91.19 ACME 8TPI	73	76.3	81.9	19.1	31.8
4"	119.25 ACME 6TPI	97.6	101.7	108.1	22.2	34.9



Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

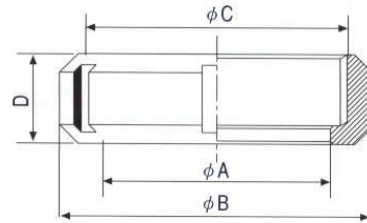
Email: sales@msstainless.com.au

M & S Stainless Supplies

## SMS UNION

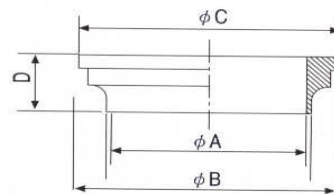
### SMS Nut 6 Slots SMS-13R

Size	A	C	B	D
25	32.3	51	RD 40 X 1/6	19
32	40.3	60	RD 48 X 1/6	22
38	48.3	74	RD 60 X 1/6	23
51	60.5	84	RD 70 X 1/6	24
63.5	74	100	RD 85 X 1/6	28
76	87	114	RD 98 X 1/6	30
101.6	113	138	RD 132 X 1/6	31
104	113	138	RD 125 X 1/4	31



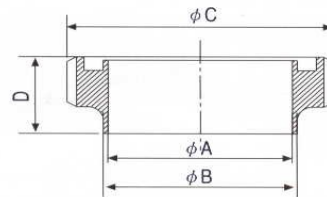
### Long Welding Liner SMS-14

Size	A	B	C	D	E
25	22.5	25	32	35.5	15.5
38	35.5	38	47.9	55	16
51	48.5	51	60.4	65	17
63.5	60.5	63.5	73.5	80.0	17
76	72.9	76.1	86.5	93	19
101.6	98.5	102.5	116.5	127	19
104	100	104	112.5	118	19



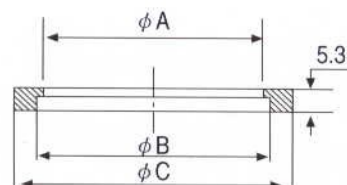
### SMS Welding Male SMS-15

Size	A	B	C	D
25	22.5	25	RD 40 X 1/6	19
38	35.5	38	RD 60 X 1/6	23
51	48.5	51	RD 70 X 1/6	23
63.5	60.5	63.5	RD 85 X 1/6	27
76	72.9	76.1	RD 98 X 1/6	27
101.6	98.5	102.5	RD 132 X 1/6	35
104	100	104	RD 125 X 1/4	30



### Seal Ring L Type (EPDM, SILICON)

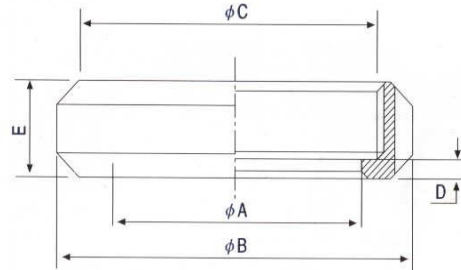
Size	A	B	B
25	22.8	25.1	31.8
38	35.8	38.1	47.8
51	48.8	51.1	60.8
63.5	61	63.6	73.3
76	73.4	76.1	85.8
104	100.5	104	115.7



## WINE UNIONS

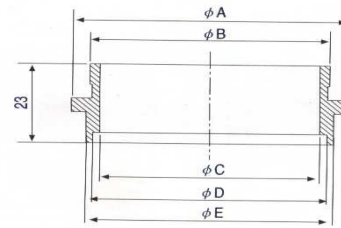
### Be Style M-Nut 4 Slots 13MR

Size	A	B	C	D	E
DN 40/43	47	70	M55xP3.0	3	25
DN 50/53	57	80	M67xP3.0	3	25
DN 60/63	67	92	M79xP3.5	3.5	25
DN 70/73	77	106	M90xP3.5	4	25
DN 80/83	90	118	M102xP4.0	4	25



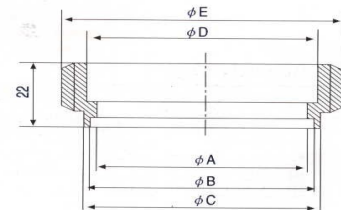
### Be Style M-Liner 14M

Size	A	B	C	D	E
DN 40/43	50	44.5	40	43.3	46.3
DN 50/53	63	54.5	50	53.3	56.3
DN 60/63	74	64.5	60	63.3	66.3
DN 70/73	85	74.5	70	73.3	76.3
DN 80/83	96	84.5	80	83.3	86.3



### Be Style M-Male 15M

Size	A	B	C	D	E
DN 40/43	40	43.3	46.3	45	M55xP3.0
DN 50/53	50	53.3	56.3	55	M67xP3.0
DN 60/63	60	63.3	66.3	66	M79xP3.5
DN 70/73	70	73.3	76.3	76	M90xP3.5
DN 80/83	80	83.3	86.3	86	M102xP4.0





Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

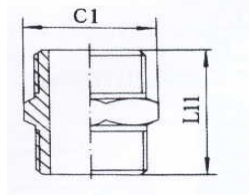
Email: sales@msstainless.com.au

M & S Stainless Supplies

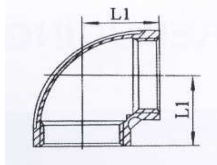
## BSP FITTINGS 316 Stainless Steel 150lb



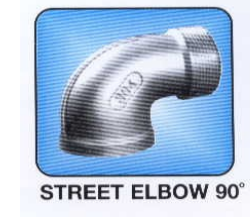
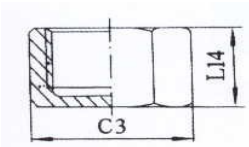
HEX NIPPLE



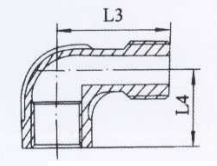
ELBOW 90° F + F



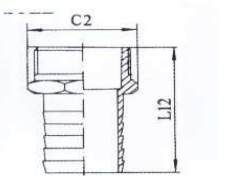
HEX CAP



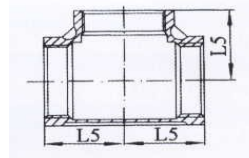
STREET ELBOW 90° M & F



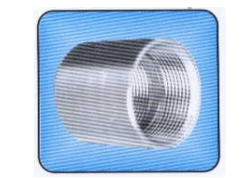
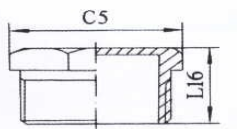
HOSE TAIL MALE



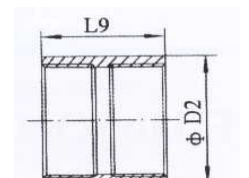
EQUAL TEE



HEX PLUG



FULL & 1/2 SOCKET



Size	L1	L3	L4	L5	D2	L9	L11	C1	L12	C2	L14	C3	L16	C5
1/8"	17	26	17	19	14	23	28	13	40	12.5	14	16	16	13
1/4"	20	30	19	19	18	29	34	16	47	16	17	18	18.5	15.5
3/8"	22.5	35	23	22.5	21	30	36	19	52	19	18	24	20	19.5
1/2"	27	40	27	28	26	38	42	23	56	23	21	27	23	24
3/4"	30	47	32	30	33	40	47	30	67	30	22	30	25.5	30
1"	36	54	38	36	40	45	52	36	71	36	26	36	29.5	35
1 1/4"	43	62	46	43.5	50	51	56	46	75	46	27	46	30	45
1 1/2"	46.5	68	48	47.5	55	54	60	50	90	50	27	55	33	50
2"	55	79	57	55	69	64	66	63	99	63	31	65	37	62.5
2 1/2"	67	94	70	67.5	86	73	73	78	108	78	40	81	45.5	78
3"	76	104	78	77	99	81	81	92	112	92	40	91	48.5	92
4"	98	128	97	96	125	93	92	117.5	119	116	50	128	51	118

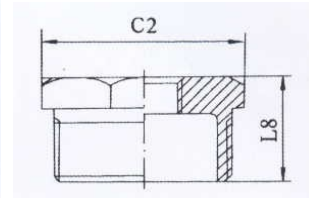
## BSP FITTINGS CONTINUED 316 Stainless Steel 150lb

### REDUCING HEX BUSH / NIPPLE

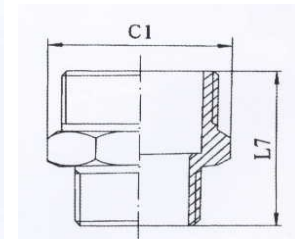
Size	L7	C1	L8	C2
1/4 -1/8	32	16	17	15.5
3/8~1/4	34	19	18	20
1/2-1/8	-	-	21	24
1/2-1/4	38	23	21	24
1/2-3/8	39	23	21	24
3/4-1/4	42.5	30	—	—
3/4-3/8	42	30	24	30
3/4-1/2	45	30	24	30
01/01/02	48	36	27	35
1~3/4	50	36	27	35.5
11/04/01	54	46	30	45
11/02/01	57	50	32	50
1 1/2-1 1/4	59	50	32	50
02/01/05	61	63	36	62
02/11/04	63	63	36	62
02/11/02	64	63	36	62
2 1/2 -2	70.5	78	39	78.5
03/02/05	73	92	44	92
03/21/02	-	-	44	92.5



REDUCING HEX BUSHING



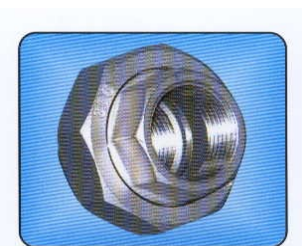
REDUCING HEX NIPPLE



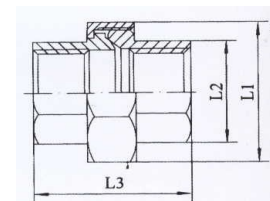
Note: Pipe Threads of any length are available

### FLAT FACED UNION

Size	L1	L2	L3
1/4"	29	18	31
3/8"	34	22	34
1/2"	39	26	38
3/4"	47	32	42
1"	58	40	48
1 1/4"	67	49	54
1 1/2"	76	56	58
2"	90	68	62
2 1/2"	108	84	70
3"	123	98	78
4"	153	126	91



F/F UNION

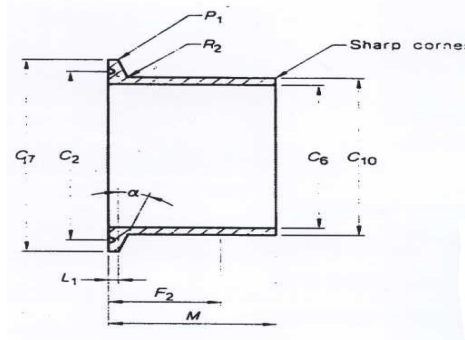


We Also Supply :-

Lock Nuts, Parallel Nipples & Female Hose Fittings

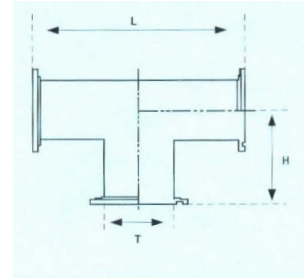
## CLAMP FITTINGS/TRICLOVER

### TRICLOVER 316 Stainless Steel



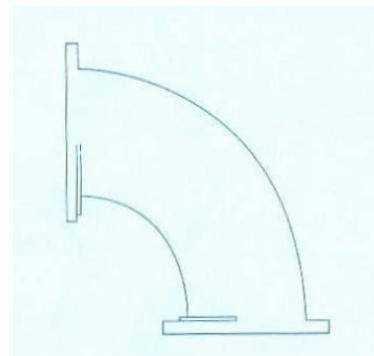
Size	C6	C10	C7	F2	C2	L1	M
1"	22.2	25.4	50.5	20	43.5	2.85	30
1 1/2"	34.9	38.1	50.5	20	43.5	2.85	30
2"	47.6	50.8	64	20	56.5	2.85	30
2 1/2"	60.3	63.5	77.5	20	70.5	2.85	30
3"	72.2	76.2	91	20	83.5	2.85	30
4"	98.4	101.6	119	20	110	2.85	30

**TRICLOVER FERRULE EQUAL TEES &  
TRICLOVER FERRULE BENDS  
TRICLOVER EQUAL TEE**



Thick (T)	Length (L)	Height (H)
38	140	70
51	178	89
63	178	89
76	190	95
101	229	114

**TRICLOVER BENDS**

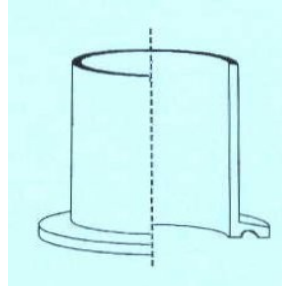


SIZE (INCHES)	SIZE (MM)
1/2"	12
3/4"	18
1"	25
1 1/4"	31
1 1/2"	38
2"	50
2 1/2"	63
3"	76
4"	100

## FERRULE'S

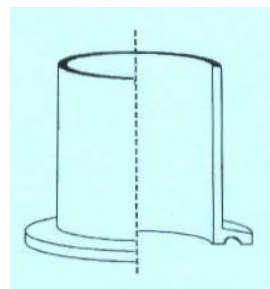
### SHORT FERRULE 12.5mm

SIZE (INCHES)	SIZE (MM)
1"	25
1 1/2"	38
2"	50
2 1/2"	63
3"	76
4"	100



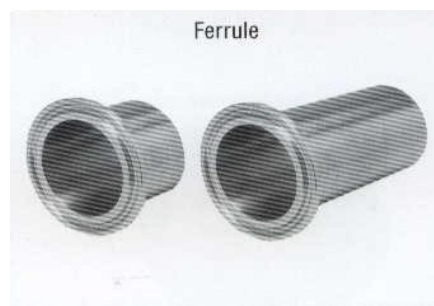
### STANDARD FERRULE 28.5mm

SIZE (INCHES)	SIZE (MM)
1/2"	12
3/4"	18
1"	25
1 1/4"	31
1 1/2"	38
2"	50
2 1/2"	63
3"	76
4"	100



### LONG FERRULE 76mm

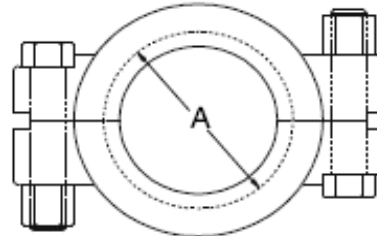
SIZE (INCHES)	SIZE (MM)
1"	25
1 1/2"	38
2"	50
2 1/2"	63
3"	76
4"	100



## CLAMP FITTINGS/TRICLOVER FITTINGS

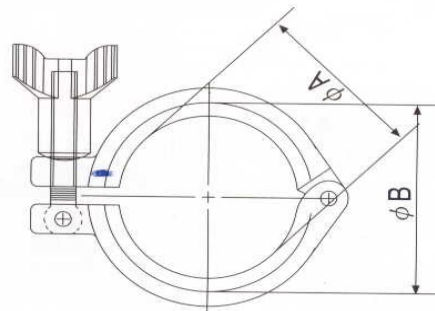
### 13MHP High Pressure Clamp With Screw Bolt Brass Nut

Size	A	B
1.5"	43.32	52
2.0"	56.44	65.5
2.5"	69.54	79
3.0"	77.56	92.5
4.0"	108.86	120.5
6.0"	158	170



### 13MHH Heavy Duty Single Pin Clamp

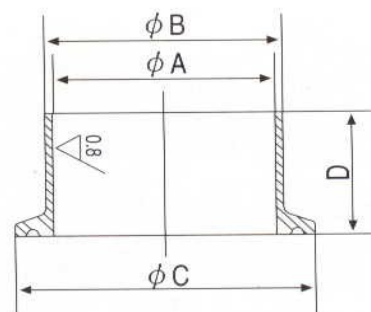
Size	A	B
A37	27.8	37
1/2"-3/4"	28	32.4
1-1 1/2"	44.4	53.6
2"	57.8	77
2 1/2"	71.4	90.6
3"	84	103.2
3 1/2"	99	119
4"	110	132
4 1/2"	123	145
6"	155.4	170.4
8"	205	220



### Welding Ferrule

3A-14WMP 14MMP 14AMP

Size	A	B	C	D	D	D
1/2"	9.45	12.75	25.2	12.7	21.5	28.6
3/4"	15.75	19.05	25.2	12.7	21.5	28.6
1.0"	22.2	25.4	50.5	12.7	21.5	28.6
1.5"	34.9	38.1	50.5	12.7	21.5	28.6
2.0"	47.6	50.8	64	12.7	21.5	28.6
2.5"	60.3	63.5	77.5	12.7	21.5	28.6
3.0"	73	76.2	91	12.7	21.5	28.6
4.0"	97.6	101.6	119	12.7	21.5	28.6
6.0"	146.8	152.5	166.8		21.5	28.6
8.0"	197.6	203.3	217.6		21.5	28.6
10"	247.2	254.1	268.4		21.5	28.6
12"	298	304.9	319.3		21.5	28.6



Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799


Fax: (02) 9688 4645

Email: sales@msstainless.com.au

M & S Stainless Supplies

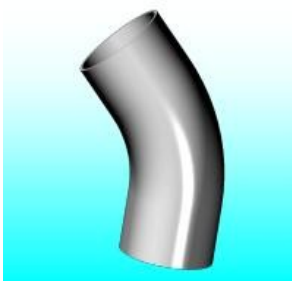
## BENDS TUBE

90° TUBE BENDS						
SIZE	316 16#		304 16#		316 14#	
	UNPOL	POLISHED	UNPOL	POLISHED	UNPOL	POLISHED
6mm						
9mm						
12mm						
15mm						
18mm						
25mm						
31mm						
38mm						
45mm						
50mm						
63mm						
76mm						
100mm						
125mm						
150mm						




90° and 45° Bend

45° TUBE BENDS 316		
SIZE	UNPOL	POL
18mm		
25mm		
31mm		
38mm		
45mm		
50mm		
63mm		
76mm		
100mm		
125mm		
150mm		



45° TUBE BENDS 304		
UNPOL	POL	SIZE
		50mm
		63mm
		76mm
		100mm



180° TUBE BENDS 316		
SIZE	UNPOL	POL
18mm		
25mm		
31mm		
38mm		
45mm		
50mm		
63mm		
76mm		
100mm		



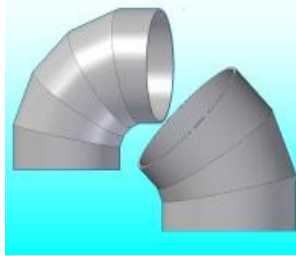
180° Bend

90° TUBE BENDS 1x RADIUS (316)	
UNPOL	SIZE
	25mm
	38mm
	50mm
	63mm
	76mm
	100mm



## **MALE AND FEMALE BEND & LOBSTER BACK BENDS**

### **MALE & FEMALE BEND**



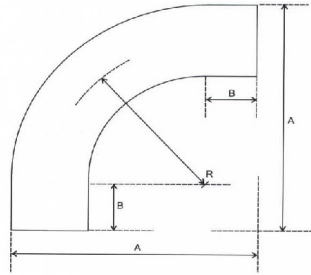
#### **POLISHED**

<b>SIZE (INCHES)</b>	<b>SIZE (MM)</b>
1"	25
1 1/2"	38
2"	50
2 1/2"	63
3"	76
4"	100
5"	125
6"	150
8"	200
9"	250
12"	300
15"	390
15 3/4"	400
17 3/4"	450
19 3/4"	500

### **45 & 90 DEGREE LOBSTER BACK BENDS 2mm**



## BENDS AND DIMENSIONS



### NEW ZEALAND DIMENSIONS

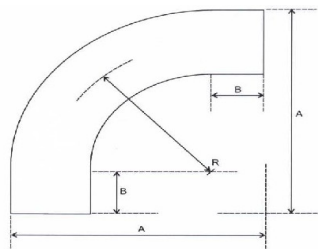
Tube OD	12.7	15.9	19.1	25.4	31.8	38.1	44.5	50.8	63.5	76.2	101.6	152.4
Product Code	056*9U	066*9U	076*9U	106*9U	126*9N	156*9N	176*9N	206*9N	256*9N	306*9N	406*9U	6020*9U
Radius	19.05	23.8	28.65	38.1	57.2	76.2	79.4	101.6	114.3	139.7	152.4	228.6
Dim A	55.4	61.7	68.2	80.8	104.9	130.15	139.75	158.8	184.15	215.9	233.2	344.8
Dim B	30	30	30	30	31.8	34.9	38.1	31.8	38.1	38.1	30	40

### TOLERANCES

Ovality	± 0.5% of OD
Square	Target 0.2mm, Max 0.4mm
Dim A	+ 1mm -0mm
Dim B	Nominal
Radius	Nominal

#### NOTE:

Product Codes: \* : 4 = T304 Stainless Steel, 6 = T316L Stainless Steel



### UNI DIMENSIONS -AS1528

Tube OD	12.7	15.9	19	25.4	31.8	38.1	44.5	50.8	63.5	76.2	101.6	152.4
Product Code	056*9U	066*9U	076*9U	106*9U	126*9U	156*9U	176*9N	206*9U	256*9U	306*9U	406*9U	6020*9U
Radius	19.05	23.8	28.65	38.1	47.6	57.2	79.4	76.2	95.3	114.3	152.4	228.6
Dim A	55.4	61.7	68.2	80.8	93.5	106.2	139.75	131.6	157.1	182.4	233.2	344.8
Dim B	30	30	30	30	30	30	38.1	30	30	30	30	40

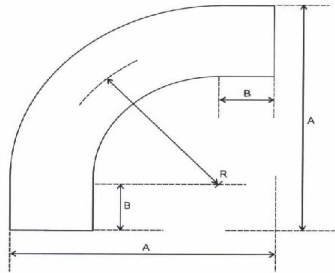
### TOLERANCES

Ovality	± 0.5% of OD
Square	Target 0.2mm, Max 0.4mm
Dim A	+ 1mm -0mm
Dim B	Nominal
Radius	Nominal

#### NOTE:

Product Codes: \* : 4 = T304 Stainless Steel, 6 = T316L Stainless Steel

## BENDS AND DIMENSIONS



### LONG LEG DIMENSIONS

<b>Tube OD</b>	25.4	31.8	38.1	50.8	63.5	76.2	101.6
<b>Product Code</b>	10249L	12249L	15249L	20249L	25249L	30649L	40649L
<b>Radius</b>	44.5	57.2	76.2	101.6	114.3	139.7	152.4
<b>Dim A</b>	94.4	120.9	150.1	190.8	235.2	295.9	328.6
<b>Dim B</b>	37.2	47.8	54.9	63.8	89.1	118.1	125.4

### ZETAN (ZERO TANGENT) DIMENSIONS

<b>Tube OD</b>	25.4	31.8	38.1	50.8	63.5	76.2	101.6
<b>Product Code</b>	106*9Z	126*9Z	156*9Z	206*9Z	256*9Z	306*9Z	406*9Z
<b>Radius</b>	38.1	47.6	57.2	76.2	95.3	114.3	152.4
<b>Dim A</b>	50.8	76.2	76.2	101.6	127	152.4	203.2
<b>Dim B</b>	0	12.7	0	0	0	0	0

### TOLERANCES

<b>Ovality</b>	± 0.5% of OD
<b>Square</b>	Target 0.2mm, Max 0.4mm
<b>Dim A</b>	+ 1mm -0mm
<b>Dim B</b>	Nominal
<b>Radius</b>	Nominal

### NOTE:

Product Codes: \* : 4 = T304 Stainless Steel, 6 = T316L Stainless Steel

## BENDS AND DIMENSIONS

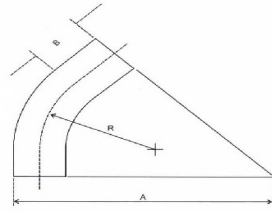
Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: sales@msstainless.com.au

M & S Stainless Supplies



### NEW ZEALAND / UNI DIMENSIONS - AS1528

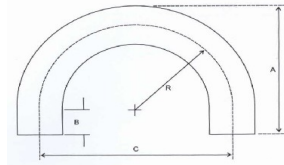
<b>Tube OD</b>	19.1	25.4	31.8	38.1	50.8	63.5	76.2	101.6	152.4
<b>Product Code</b>	07664U	106*4U	126*4U	156*4U	206*4U	256*4U	306*4U	406*4U	6020*4U
<b>Radius</b>	28.65	38.1	57.2	57.2	76.2	95.3	114.3	152.4	228.6
<b>Dim A</b>	110.5	123	136	148	174	199	225	275	401.4
<b>Dim B</b>	30	30	30	30	30	30	30	30	40

### TOLERANCES

<b>Ovality</b>	± 0.5% of OD
<b>Square</b>	Target 0.2mm, Max 0.4mm
<b>Dim A</b>	+ 1mm -0mm
<b>Dim B</b>	Nominal
<b>Radius</b>	Nominal

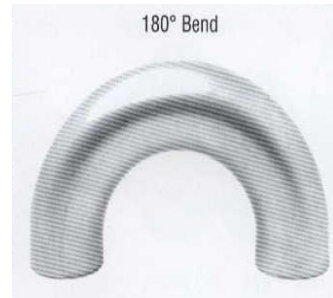
### NOTE:

Product Codes: \* : 4 = T304 Stainless Steel, 6 = T316L Stainless Steel



### NEW ZEALAND DIMENSIONS

<b>Tube OD</b>	25.4	31.8	38.1	50.8	63.5	76.2	101.6
<b>Product Code</b>	106*8N	126*8N	156*8N	206*8N	256*8N	306*8N	406*8U
<b>Radius</b>	44.5	57.2	76.2	101.6	114.3	139.7	152.4
<b>Dim A</b>	79.4	104.9	130.2	158.8	184.2	215.9	233.2
<b>Dim B</b>	22.2	31.8	34.9	31.8	38.1	38.1	30



### UNI DIMENSIONS

<b>Tube OD</b>	25.4	31.8	38.1	50.8	63.5	76.2	101.6
<b>Product Code</b>	10668U	12668U	15668U	20668U	25668U	30668U	40668U
<b>Radius</b>	38.1	47.6	57.2	76.2	95.3	114.3	152.4
<b>Dim A</b>	80.8	93.5	106.3	131.6	157.1	182.4	233.2
<b>Dim B</b>	30	30	30	30	30	30	30

### TOLERANCES

<b>Dim A</b>	± 1mm
<b>Dim B</b>	Nominal
<b>Dim C</b>	Nominal - typically 2 x R x 1.03. If this is critical to your end use, please talk to us first.

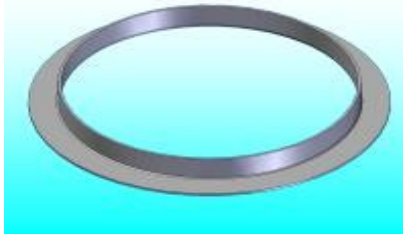
### NOTE:

Product Codes: \* : 4 = T304 Stainless Steel, 6 = T316L Stainless Steel

## CAPS TUBE

### TUBE ANGLE RING

SIZE
76mm
100mm
125mm
150mm
200mm
250mm
300mm
350mm
400mm
450mm
500mm



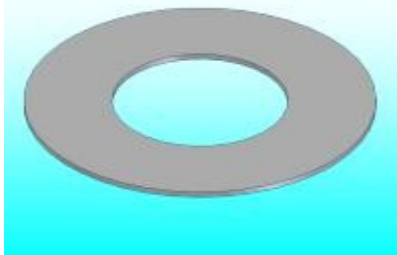
### TUBE STUB END/VANSTONE



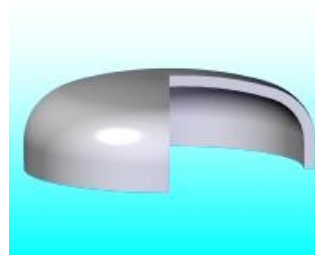
SIZE
12mm
18mm
25mm
31mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm

### CEILING PLATE

SIZE
12mm
18mm
25mm
31mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm



### TUBE END CAP



SIZE
25mm
31mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm
200mm
250mm
300mm

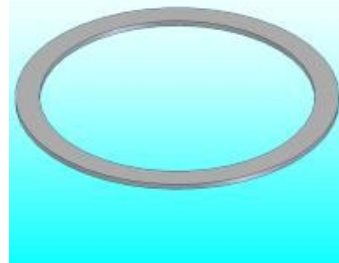
### TUBE END DISC

SIZE	16#	10#
25mm		
31mm		
38mm		
50mm		
63mm		
76mm		
100mm		
125mm		
150mm		
200mm		
250mm		
300mm		
350mm		
400mm		
450mm		
500mm		



### JACKET END DISC

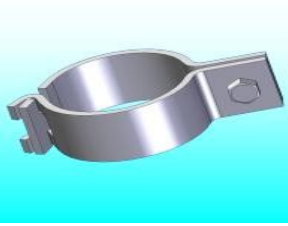
SIZE
38x25mm
50x38mm
50x25mm
63x50mm
63x38mm
76x63mm
76x50mm
76x38mm
100x76mm
100x63mm
100x50mm
127x100mm
150x127mm
150x100mm
200x150mm



## TUBE ACCESSORIES

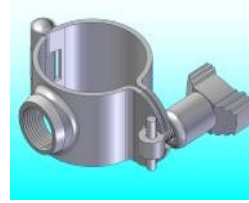
### PLAIN CLAMP

SIZE
18mm
25mm
31mm
38mm
50mm
63mm
76mm
100mm



### HINGE CLAMP

SIZE
25mm
31mm
38mm
50mm
63mm
76mm
100mm



### TANG CLAMP

SIZE
18mm
25mm
31mm
38mm
50mm
63mm
76mm
100mm
*125mm
*150mm



### HOSE CLAMP

SIZE
12mm
18mm
25mm
31mm
38mm
50mm
63mm
76mm
100mm
125mm
150mm



### BOSSED CLAMP

SIZE
18mm
25mm
31mm
38mm
50mm
63mm
76mm
100mm
*125mm
*150mm



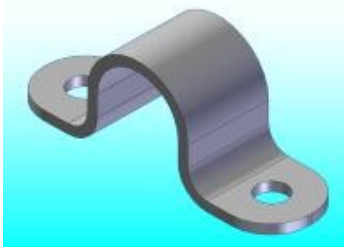
### INTERLOCKING CLAMP

SIZE
25mm
31mm
38mm
50mm
63mm
76mm
100mm



### TUBE SADDLE

SIZE
6mm
9mm
12mm
18mm
25mm
31mm
38mm
50mm
63mm
76mm
100mm

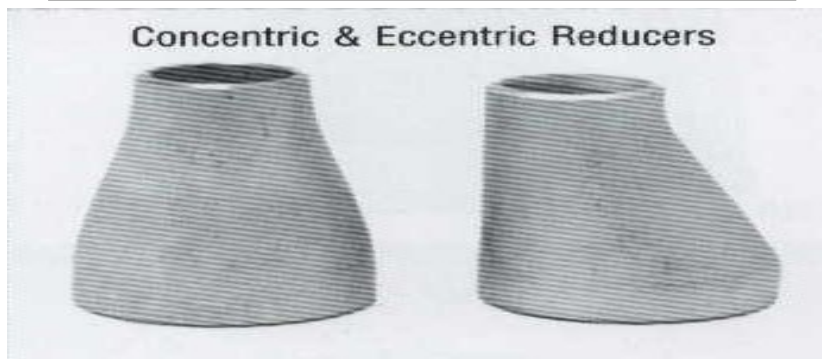


### DOUBLE BOLTED CLAMP

FOR TUBE	TUBE H/DTY	FOR PIPE	SIZE
			12mm
			18mm
			25mm
			38mm
			50mm
			63mm
			76mm
			100mm
			125mm
			150mm
			200mm
			250mm
			300mm



## **CONCENTRIC AND ECCENTRIC REDUCERS 16 Gauge** **1.6mm 316 POLISHED / UNPOLISHED**



### **POLISHED 316**

SIZE	SIZE (MM)
3/8 X 1/4	9 X 6
1/2 X 1/4	12 X 6
1/2 X 3/8	12 X 9
3/4 X 1/2	19 X 12
1 X 3/4	25 X 19
1 X 1/2	25 X 12
1 1/4 X 1	31 X 25
1 1/4 X 3/4	31 X 19
1 1/4 X 1/2	31 X 12
1 1/2 X 1 1/4	38 X 31
1 1/2 X 1	38 X 25
1 1/2 X 3/4	38 X 19
1 1/2 X 1/2	38 X 12
2 X 1 1/2	50 X 38
2 X 1 1/4	50 X 31
2 X 1	50 X 25
2 X 3/4	50 X 19
2 X 1/2	50 X 12
2 1/2 X 2	63 X 50
2 1/2 X 1 1/2	63 X 38
2 1/2 X 1	63 X 25
3 X 1 1/4	76 X 31

### **POLISHED 316**

SIZE	SIZE (MM)
3 X 2 1/2	76 X 63
3 X 2	76 X 50
3 X 1 1/2	76 X 38
3 X 1	76 X 25
4 X 3	100 X 76
4 X 2 1/2	100 X 63
4 X 2	100 X 50
4 X 1 1/2	100 X 38
4 X 1	100 X 25
5 X 4	125 X 100
5 X 3	125 X 76
5 X 2 1/2	125 X 63
5 X 2	125 X 50
5 X 1 1/2	125 X 38
5 X 1	125 X 25
6 X 5	150 X 125
6 X 4	150 X 100
6 X 3	150 X 76
6 X 2 1/2	150 X 63
6 X 2	150 X 50
6 X 1 1/2	150 X 38
6 X 1	150 X 25

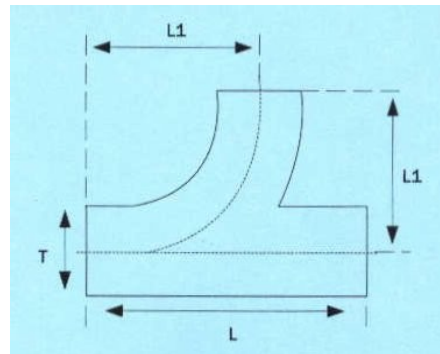
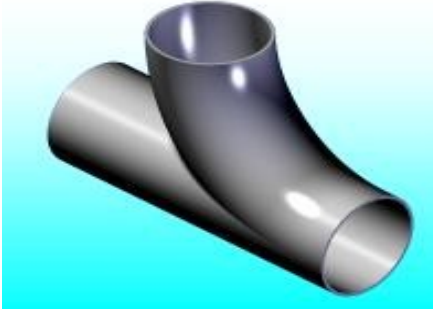
### **UNPOLISHED 316**

SIZE	SIZE (MM)
8 X 6	200 X 150
8 X 5	200 X 125
8 X 4	200 X 100
8 X 3	200 X 76
8 X 2	200 X 50
10 X 8	250 X 200
10 X 6	250 X 150
10 X 4	250 X 100
12 X 10	300 X 250
12 X 8	300 X 200
12 X 6	300 X 150
12 X 4	300 X 100
14 X 12	350 X 300
14 X 10	350 X 250
14 X 8	350 X 200
14 X 6	350 X 150
15 X 14	400 X 350
15 X 12	400 X 300
15 X 10	400 X 250
15 X 8	400 X 200
15 X 6	450 X 150
17 X 15	450 X 400
17 X 14	450 X 350
17 X 12	450 X 300
17 X 10	450 X 250
19 X 15	500 X 400
19 X 12	500 X 300
19 X 8	500 X 200

**ALSO AVAILABLE IN 2MM**

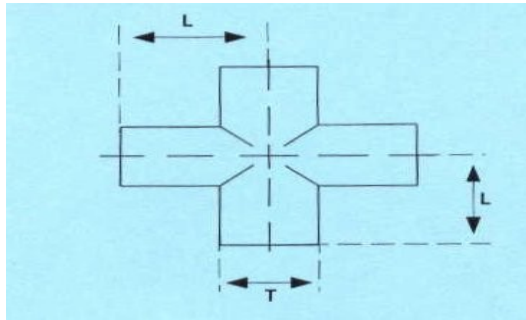
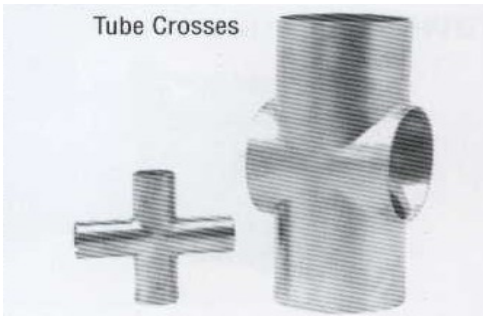
**ALSO AVAILABLE IN 304 GRADE**

## ***SWEEP TEE***



Thick (T)	L	L1	Thick (T)	L	L1
12	65	30	½"	2 ½"	1"
18	65	30	¾"	2 ½"	1"
25	90	51	1"	3 ½"	2"
31	105	60	1 ¼"	4"	2 ¼"
38	120	70	1 ½"	4 ¾"	2 ¾"
50	150	88	2"	6"	3 ½"
63	210	122	2 ½"	8 ¼"	4 ¾"
76	240	140	3"	9 ½"	5 ½"
100	310	179	4"	12 ¼"	7"
125	400	230	5"	15 ¾"	9"
152	460	270	6"	18"	10 ½"

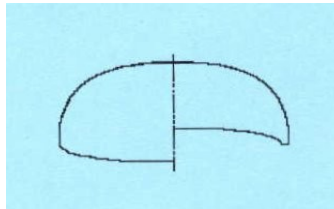
## TUBE CROSS 16G POLISHED 316



Thick (T)	Length (L)
1/2"	3/4"
3/4"	1"
1"	1 1/2"
1 1/4"	2"
1 1/2"	2 1/4"
2"	3"
2 1/2"	3 3/4"
3"	4 1/2"
4"	6"
5"	7 1/2"
6"	9"

Thick (T)	Length (L)
12	19.1
18	28.6
25	31.8
31	47.7
38	57.0
50	76.2
63	95.0
76	114.2
100	152.4
125	190.5
152	228.5

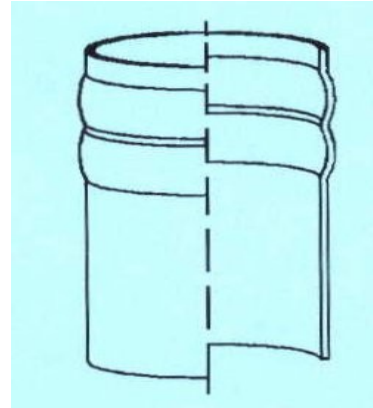
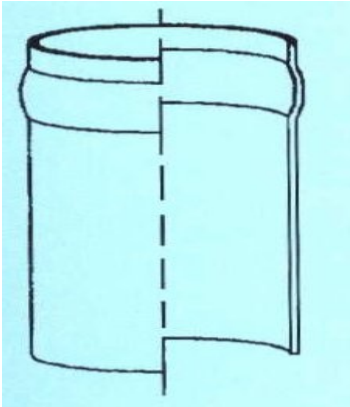
## TUBE CAP 16 GAUGE



SIZE (INCHES)	SIZE (MM)
1/2"	12
3/4"	18
1"	25
1 1/4"	31
1 1/2"	38
2"	50
2 1/2"	63
3"	76
4"	100
5"	125
6"	150
8"	200



## ***PLAIN HOSETAIL (ROLLED)***



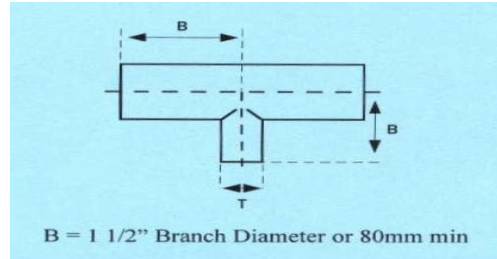
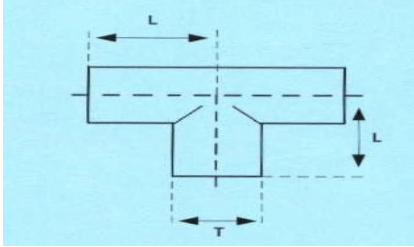
### **SINGLE**

<b>SIZE (INCHES)</b>	<b>SIZE (MM)</b>
1"	25
1 ¼"	31
1 ½"	38
2"	50
2 ½"	63
3"	76
4"	100
5"	125
6"	150

### **DOUBLE**

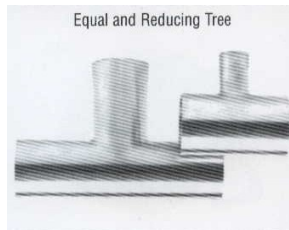
<b>SIZE (INCHES)</b>	<b>SIZE (MM)</b>
1"	25
1 ¼"	31
1 ½"	38
2"	50
2 ½"	63
3"	76
4"	100
5"	125
6"	150

## Tube TEE & Reduction TEE TUBE TEE



### IMPERIAL

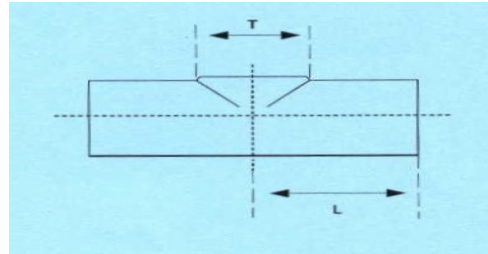
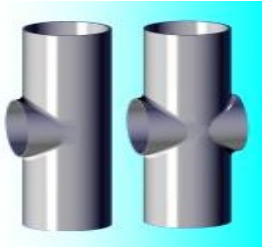
Thick (T)	LENGTH (L)
1/2"	3/4"
3/4"	1"
1"	1 1/2"
1 1/4"	2"
1 1/2"	2 1/4"
2"	3"
2 1/2"	3 3/4"
3"	4 1/2"
4"	6"
5"	7 1/2"
6"	9"



### METRIC

THICK (T)	LENGTH (L)
12	19.1
18	28.6
25	31.8
31	47.7
38	57.0
50	76.2
63	95.0
76	114.2
100	152.4
125	190.5
152	228.5

## PULLED TEE



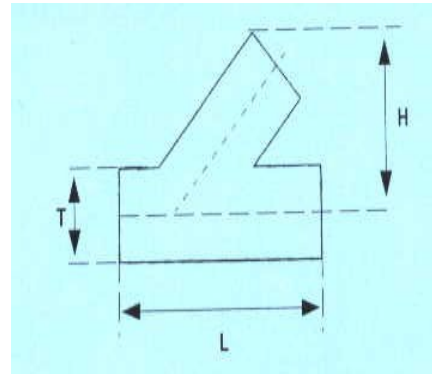
### IMPERIAL

Thick (T)	Length (L)
1/2"	3/4"
3/4"	1"
1"	1 1/2"
1 1/4"	2"
1 1/2"	2 1/4"
2"	3"
2 1/2"	3 3/4"
3"	4 1/2"
4"	6"
5"	7 1/2"
6"	9"

### METRIC

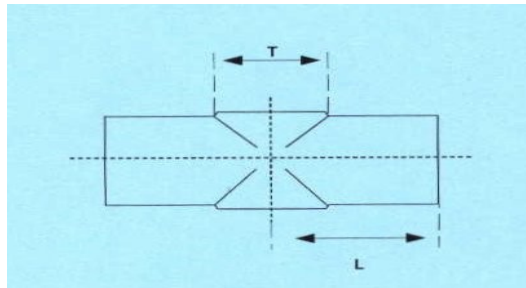
Thick (T)	Length (L)
12	19.1
18	28.6
25	31.8
31	47.7
38	57.0
50	76.2
63	95.0
76	114.2
100	152.4
125	190.5
152	228.5

### 45 DEGREE TEE



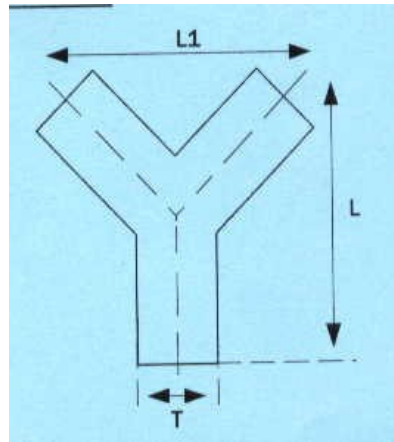
METRIC			IMPERIAL		
Thick (T)	L	L1	THICK (T)	L	L1
12	38	25	1/2"	1 1/2"	1"
18	57	30	3/4"	2 1/4"	1"
25	76	48	1"	3"	2"
31	95	65	1 1/4"	3 3/4"	2 1/2"
38	114	71	1 1/2"	4 1/2"	2 3/4"
50	152	95	2"	6"	3 3/4"
63	191	119	2 1/2"	7 1/2"	4 2/3"
76	229	142	3"	9"	5 1/2"
100	305	195	4"	12"	7 1/2"
125	381	245	5"	15"	9 1/2"
152	457	294	6"	18"	11 1/2"

### PULLED CROSS



PULLED CROSS			
Thick (T)	Length (L)	Thick (T)	Length (L)
1/2"	3/4"	12	19.1
3/4"	1"	18	28.6
1"	1 1/2"	25	31.8
1 1/4"	2"	31	47.7
1 1/2"	2 1/4"	38	57.0
2"	3"	50	76.2
2 1/2"	3 3/4"	63	95.0
3"	4 1/2"	76	114.2
4"	6"	100	152.4
5"	7 1/2"	125	190.5
6"	9"	152	228.5

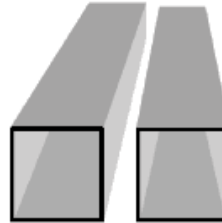
## Y Piece 316



METRIC			IMPERIAL		
Thick (T)	L	L1	THICK (T)	L	L1
12	55	50	1/2"	2"	2"
18	65	55	3/4"	2 1/2"	2"
25	88	72	1"	3 1/2"	3"
31	110	90	1 1/4"	4 1/3"	3 1/2"
38	132	108	1 1/2"	5 1/4"	4 1/4"
50	176	143	2"	7"	5 1/2"
63	220	179	2 1/2"	8 2/3"	7"
76	264	215	3"	10 1/2"	8 1/2"
100	352	287	4"	13 3/4"	11 1/3"
125	359	440	5"	14"	17 1/3"
152	430	529	6"	17"	21"

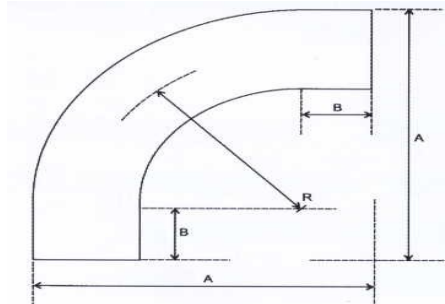
## TUBE

RECTANGLE TUBE		
SIZE		
80x40	10#	3mm
50x25	16#	1.6mm
50x25	10#	3mm
100x50	14#	2mm
150x100	10#	3mm
150x150		5mm



SQUARE TUBE		
SIZE		
12x12	18#	1.2mm
18x18	18#	1.2mm
25x25	18#	1.2mm
25x25	16#	1.6mm
25x25	10#	3mm
31x31	16#	1.6mm
38x38	16#	1.6mm
38x38	10#	3mm
50x50	16#	1.6mm
50x50	10#	3mm
76x76	10#	3mm
80x80	10#	3mm
100x100	10#	3mm

## TUBE BENDS / TEES 304 / 316 Stainless Steel



Tube OD	12.7	15.9	19	25.4	31.8	38.1	44.5	50.8	63.5	76.2	101.6	152.4
Product Code	056*9U	066*9U	076*9U	106*9U	126*9U	156*9U	176*9U	206*9U	256*9U	306*9U	406*9U	6020*9U
Radius	19.05	23.8	28.65	38.1	47.6	57.2	79.4	76.2	95.3	114.3	152.4	228.6
Dim A	55.4	61.7	68.2	80.8	93.5	106.2	139.75	131.6	157.1	182.4	233.2	344.8
Dim B	30	30	30	30	30	30	38.1	30	30	30	30	40

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: sales@msstainless.com.au

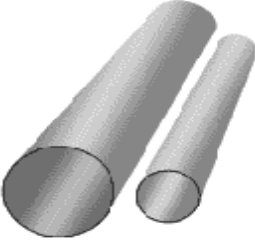
M & S Stainless Supplies

## TUBE CONTINUED

Tube is measured and identified by nominating outside Diameter, wall thickness, Grade and condition.

**Condition:** **AW:** As Welded **WA:** Welded Annealed **WABP:** Welded Annealed Buff Polish **CDS:** Cold Drawn Seamless

IMPERIAL OD	METRIC OD	TUBE: Wall Thickness Available
1/4"	6.36mm	.71 mm Wall
3/8"	9.53mm	.91 mm Wall
1/2"	12.70mm	1.2 mm Wall
3/4"	19.05mm	1.5 mm Wall
7/8	22.23mm	1.6 mm Wall
1"	25.40mm	2.0 mm Wall
1 1/4	31.75mm	2.5 mm Wall
1 1/2	38.10mm	3.0 mm Wall
1 3/4	44.45mm	
2"	50.80mm	
2 1/2	63.50mm	
3"	76.20mm	
4"	101.60mm	
5"	127.00mm	
6"	152.40mm	
8"	203.20mm	



### Also Stocked:

C.D.S. Cold drawn

seamless tube 1/4" to 3" Diameter

Spiral tube 4" to 18" Diameter

**NOTE:**

*Wall thicknesses not available in all tube sizes.*

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

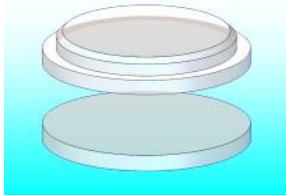
Email: sales@msstainless.com.au

M & S Stainless Supplies

## MISCELLANENOUS

### SPARE SIGHT GLASS LENSES

	ARMOUR	ARMOUR
SIZE	PLATE GLASS	PLATE H/DUTY
25mm		
38mm		
50mm		
63mm		
76mm		
100mm		
125mm		
150mm		



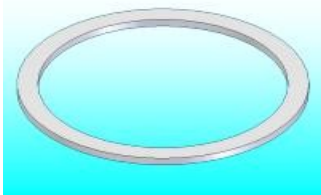
### UNION/LANTERN SPARE PARTS

		POLY-	EPDM
SIZE	GLASS	CARBONATE	SEAT
25mm			
38mm			
50mm			
63mm			
76mm			
100mm			
150mm			



### ANTI-SHELL RINGS

	POLY-	
SIZE	ETHELYENE	TEFLON
25mm		
38mm		
50mm		
63mm		
76mm		
100mm		
125mm		
150mm		



### SHORT EXPANSION JOINT

SIZE
25mm
38mm
50mm
63mm
76mm
100mm
150mm



## Y Type Strainer

### **POLISHED**

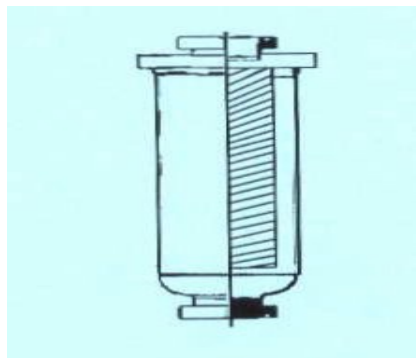
SIZE (INCHES)	SIZE (MM)
1"	25
1 ¼"	31
1 ½"	38
2"	50
2 ½"	63
3"	76
4"	100
5"	125
6"	150



## INLINE STRAINER

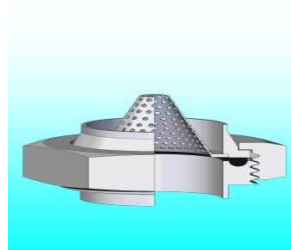
### **POLISHED**

SIZE (INCHES)	SIZE (MM)
½"	12
¾"	18
1"	25
1 ¼"	31
1 ½"	38
2"	50
2 ½"	63
3"	76
4"	100
5"	125
6"	150



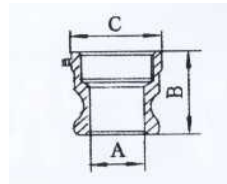
## UNION STRAINER

SIZE (INCHES)	SIZE (MM)
2"	50
2 ½"	63
3"	76
4"	100

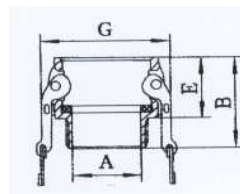




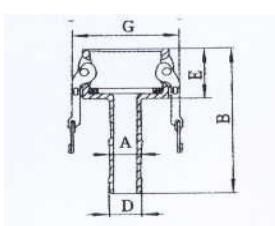
## CAMLOCKS



PART A									
Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	21	21	24	28.5	36	45	56.5	73	98
B	38	38	48	56	60	64	87	73	78
C	32	32	40	48	56	67	83	96	127

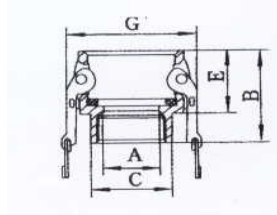
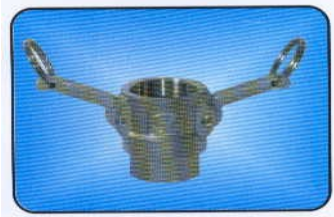


PART B									
Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	14	14	24	28	35	51	58	72	98
B	52	52	64	72	73	80	90	60	101
E	32	32	40	48	49	54	59	60	62
G	53	53	60	78	85	96	110	127	156

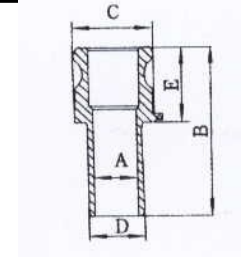


PART C									
Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	14	14	20	25	31	43	55	67	92
B	92	92	105	118	121	138	155	164	175
D	20	20	26	33	39	52	65	77	103
E	32	32	40	48	49	54	59	60	62
G	53	53	60	78	85	96	110	127	156

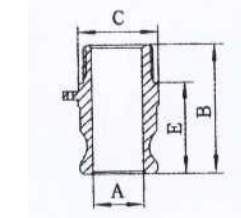
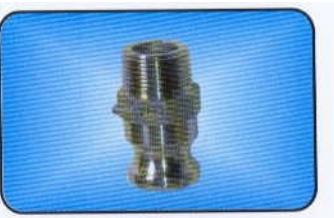
## CAMLOCKS CONTINUED



PART D									
Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	16	19	26	30	39	50	58	72	98
B	52	52	62	68	71	78	85	91	96
C	32	32	40	48	56	67	83	96	127
E	32	32	40	48	49	54	59	60	62
G	53	53	60	78	85	96	110	127	156

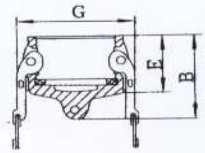


PART E									
Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	14	19	24	28	35	48	58	72	98
B	98	98	110	121	125	140	158	170	182
D	20	20	26	33	39	52	65	77	103
E	40	40	46	53	56	61	65	66	70
C	34	34	38	48	56	66	80	102	132

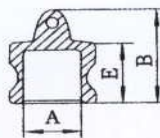


PART F									
Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	21	21	24	28.5	36	45	56.5	73	98
B	56	56	72	80	84	88	100	106	114
C	32	32	40	48	56	67	83	96	127
E	39	39	48	56	61	62	69	74	79

## CAMLOCKS CONTINUED



PART DC									
Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
B	45	45	54	65	69	80	84	85	94
E	32	32	40	48	49	54	59	60	62
G	53	53	60	78	85	96	110	127	156

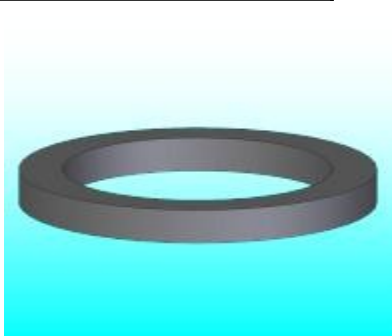


PART DP									
Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	21	21	24	28.5	36	45	56.5	73	98
B	37	37	44	55	64	68	70	80	80
E	24	24	30	38	41	43	45	52	48

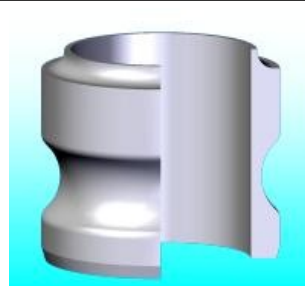
## CAMLOCK FITTINGS

### CAMLOCK BUNA GASKET

SIZE
12mm
18mm
25mm
31mm
38mm
50mm
63mm
76mm
100mm
150mm



### MALE CAMLOCK B/W



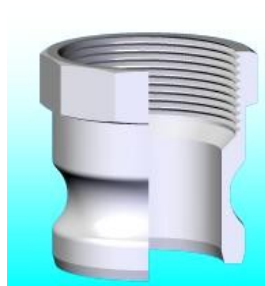
SIZE
25mm
31mm
38mm
50mm
63mm
76mm
100mm

### FEMALE CAMLOCK > FEMALE BSP

SIZE
12mm
18mm
25mm
31mm
38mm
50mm
63mm
76mm
100mm
150mm



### MALE CAMLOCK > FEMALE BSP



SIZE
12mm
18mm
25mm
31mm
38mm
50mm
63mm
76mm
100mm
150mm

### CAMLOCK DUST CAP

Male	Female	SIZE
		12mm
		18mm
		25mm
		31mm
		38mm
		50mm
		63mm
		76mm
		100mm
		150mm



**ALSO AVAILABLE IN BRASS, ALUMINIUM, AND POLYPROPYLENE**

## CONCENTRIC REDUCERS PIPE



### PIPE 316

SIZE (INCHES)	SIZE (MM)
3/8 X 1/4	9 X 6
1/2 X 1/4	12 X 6
1/2 X 3/8	12 X 9
3/4 X 1/2	19 X 12
1 X 3/4	25 X 19
1 X 1/2	25 X 12
1 1/4 X 1	31 X 25
1 1/4 X 3/4	31 X 19
1 1/4 X 1/2	31 X 12
1 1/2 X 1 1/4	38 X 31
1 1/2 X 1	38 X 25
1 1/2 X 3/4	38 X 19
1 1/2 X 1/2	38 X 12
2 X 1 1/2	50 X 38
2 X 1 1/4	50 X 31
2 X 1	50 X 25
2 X 3/4	50 X 19
2 X 1/2	50 X 12
2 1/2 X 2	63 X 50
2 1/2 X 1 1/2	63 X 38
2 1/2 X 1	63 X 25
3 X 1 1/4	76 X 31

### PIPE 316

SIZE (INCHES)	SIZE (MM)
3 X 2 1/2	76 X 63
3 X 2	76 X 50
3 X 1 1/2	76 X 38
3 X 1	76 X 25
4 X 3	100 X 76
4 X 2 1/2	100 X 63
4 X 2	100 X 50
4 X 1 1/2	100 X 38
4 X 1	100 X 25
5 X 4	125 X 100
5 X 3	125 X 76
5 X 2 1/2	125 X 63
5 X 2	125 X 50
5 X 1 1/2	125 X 38
5 X 1	125 X 25
6 X 5	150 X 125
6 X 4	150 X 100
6 X 3	150 X 76
6 X 2 1/2	150 X 63
6 X 2	150 X 50
6 X 1 1/2	150 X 38
6 X 1	150 X 25

### PIPE 316

SIZE (INCHES)	SIZE (MM)
8 X 6	200 X 150
8 X 5	200 X 125
8 X 4	200 X 100
8 X 3	200 X 76
8 X 2	200 X 50
10 X 8	250 X 200
10 X 6	250 X 150
10 X 4	250 X 100
12 X 10	300 X 250
12 X 8	300 X 200
12 X 6	300 X 150
12 X 4	300 X 100
14 X 12	350 X 300
14 X 10	350 X 250
14 X 8	350 X 200
14 X 6	350 X 150
15 X 14	400 X 350
15 X 12	400 X 300
15 X 10	400 X 250
15 X 8	400 X 200
15 X 6	450 X 150
17 X 15	450 X 400
17 X 14	450 X 350
17 X 12	450 X 300
17 X 10	450 X 250
19 X 15	500 X 400
19 X 12	500 X 300
19 X 8	500 X 200

## ELBOWS PIPE

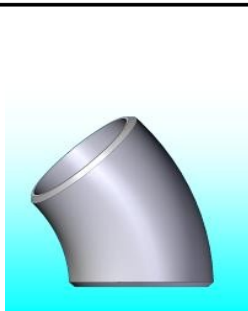
### PIPE ELBOWS 90° BUTT WELD

SIZE	SCH 10 316	SCH 40 316	SCH 10 304	SCH 40 304
12mm				
18mm				
25mm				
31mm				
38mm				
50mm				
63mm				
76mm				
100mm				
125mm				
150mm				
200mm				
250mm				
300mm				



### PIPE ELBOWS 45° BUTT WELD

SIZE	SCH 40 316	SCH 10 316
12mm		
18mm		
25mm		
31mm		
38mm		
50mm		
63mm		
76mm		
100mm		
125mm		
150mm		
200mm		
250mm		
300mm		



Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: sales@msstainless.com.au

M & S Stainless Supplies

## TEES BUTT WELD

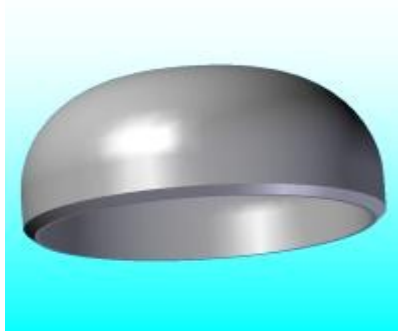
### PIPE EQUAL TEES BUTT WELD

SIZE	SIZE	SCH 10 316	SCH 40 316	SCH 10 304	SCH 40 304
12mm	½				
18mm	¾				
25mm	1				
31mm	1 ¼				
38mm	1 ½				
50mm	2				
63mm	2 ½				
76mm	3				
100mm	4				
125mm	5				
150mm	6				
200mm	8				
250mm	10				
300mm	12				

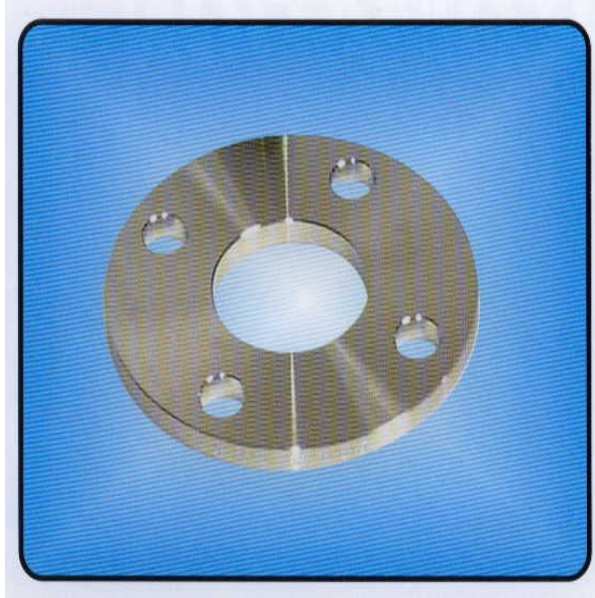


### PIPE END CAPS B/W 316

SIZE	Sch10	Sch40
12mm		
18mm		
25mm		
31mm		
38mm		
50mm		
63mm		
76mm		
100mm		
125mm		
150mm		
200mm		
250mm		
300mm		



## **FLANGE**



**Available in  
316 stainless steel Pipe  
Bore, Tube Bore, Blind &  
ANSI150 raised neck  
1" to 6" Table D & E  
And BSP Threaded**

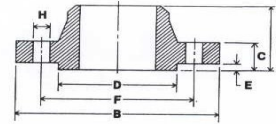




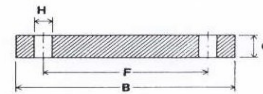
## METRIC FLANGES

### TABLE 6

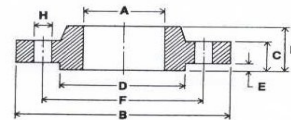
NUMBER OF HOLES		Nominal Pressure 6 Bar (1 Bar = 105 N/M2)					DRILLING DATA			LENGTH THROUGH HUB			
15	(1/2)	21 3	80	12	40	2	55	4	11	30	20	15	(1/2)
20	(3/4)	26 9	90	14	50	2	65	4	11	32	24	20	(3/4)
25	(1)	337	100	14	60	2	75	4	11	35	24	25	(1)
32	(11/4)	42 4	120	16	70	2	90	4	14	35	26		(11/4)
40	(11/2)	48 3	130	16	80	3	100	4	14	38	26	40	(11/2)
50	(2)	60 3	140	16	90	3	110	4	14	38	28	50	(2)
65	(21/2)	76 1	160	16	110	3	130	4	14	38	32	65	(21/2)
80	(3)	88 9	190	18	128	3	150	4	18	42	34	80	(3)
100	(4)	1143	210	18	148	3	170	4	18	45	40	100	(4)
125	(5)	139 7	240	20	178	3	200	8	18	48	44	125	(5)
150	(6)	168 3	265	20	202	3	225	8	18	48	44		(6)
200	(8)	2191	320	22	258	3	280	8	18	55	44	200	(8)
280	(10)	273 0	375	24	312	3	335	12	18	60	44	250	(10)
300	(12)	323 9	440	24	365	4	395	12	22	62	44	300	(12)
350	(14)	355 6	490	26	415	4	445	12	22	62			(14)
400	(16)	406 4	540	28	465	4	495	16	22	65			(16)
450	(18)	457 2	595	30	520	4	550	16	22	65			(18)
500	(20)	508 0	645	30	570	4	600	20	22	68		500	(20)
600	(24)	609 6	755	32	670	5	705	20	26	70		600	(24)



WELDING NECK



BLANK



BOSSED

### TABLE 10

NOMINAL PIPE mm. (Ins)		Nominal Pressure 10 Bar (1 Bar = 105 N/M2)					DRILLING DATA			LENGTH THROUGH HUB			
200	(8)	2191	340	24	268	3	295	a	22	62	44	200	(8)
250	(10)	273 0	295	26	320	3	350	12	22	68	46	250	(10)
300	(12)	323 9	445	26	370	4	400	12	22	68	46	300	(12)
350	(14)	355 6	505	28	430	4	460	16	22	68		390	(14)
400	(16)	406 4	565	32	482	4	515	16	26	72		400	(16)
450	(18)	457 2	615	36	532	4	565	20	26	72		450	(18)
500	(20)	508 0	670	38	585	4	620	20	26	75		500	(20)
600	(24)	609 6	780	42	685	5	725	20	30	80		600	(24)

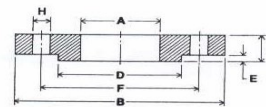


PLATE SLIP-ON WELDING

NOTES- 1 ALL DIMENSIONS ARE IN MM

AVAILABLE WITH OR WITHOUT RAISED FACE

THICKNESS DIMENSION INCLUDES RAISED FACE

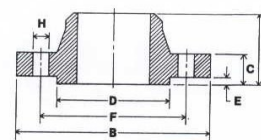
LARGER SIZES AVAILABLE ON REQUEST

\* NOTE FOR NOMINAL SIZES 15mm to 175mm USE TABLE 16

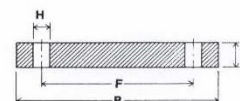
## METRIC FLANGES CONTINUED

**TABLE 16**

NOMINAL PIPE SIZE mm. (Ins)	Nominal Pressure 16 Bar (1 Bar = 105 N/M <sup>2</sup> )							DRILLING DATA			LENGTH THROUGH HUB		
15	(1/2)	21 3	95	14	45	2	65	4	14	35	20	15	(1/2)
20	(3/4)	26 9	105	16	58	2	75	4	14	38	24	20	(3/4)
25	(1)	33 7	115	16	68	2	85	4	14	38	24	25	(1)
32	(1 1/4)	42 4	140	18	78	2	100	4	18	40	26	32	(1 1/4)
40	(1 1/2)	48 3	150	18	88	3	110	4	18	42	26	40	(1 1/2)
50	(2)	60 3	165	20	102	3	125	4	18	45	28	50	(2)
65	(2 1/2)	76 1	185	20	122	3	145	4	18	45	32	65	(2 1/2)
80	(3)	88 9	200	20	138	3	160	8	18	50	34	80	(3)
100	(4)	114 3	220	22	158	3	180	8	18	52	40	100	(4)
125	(5)	139 7	250	22	188	3	210	8	18	55	44	125	(5)
150	(6)	168 3	285	24	212	3	240	8	22	55	44	150	(6)
175	(7)	193 7	315	24	242	3	270	8	22	60		175	(7)
200	(8)	219 1	340	26	268	3	295	12	22	62	44	200	(8)
250	(10)	273 0	405	29	320	3	355	12	26	70	46	250	(10)
300	(12)	323 9	460	32	378	4	410	12	26	78	46	300	(12)
350	(14)	355 6	520	35	438	4	470	16	26	82		350	(14)
400	(16)	406 4	580	38	490	4	525	16	30	85		400	(16)
450	(18)	457 2	640	42	550	4	585	20	30	87	-	450	(18)
500	(20)	508 0	715	46	610	4	650	20	33	90		500	(20)
600	(24)	609 6	840	52	725	5	770	20	36	95	-	600	(24)



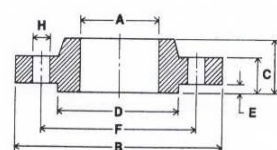
WELDING NECK



BLANK

**TABLE 25**

NOMINAL PIPE SIZE mm. (Ins)		Nominal Pressure 25 Bar (1 Bar = 105 N/M <sup>2</sup> )					DRILLING DATA			LENGTH THROUGH HUB			
175	-7	193 7	330	26	248	3	280	12	26	75		ITS	-7
200	-8	219 1	360	32	278	3	310	12	26	80	52	200	-8
250	-10	273 0	425	35	335	3	370	12	30	8	60	250	-10
300	-12	323 9	485	38	395	4	430	16	30	92	67	300	-12
350	-14	355 6	555	42	450	4	490	16	33	100	-	350	-14
400	-16	406 4	620	46	505	4	550	16	36	110		400	-16
490	-18	457 2	670	50	555	4	600	20	36	110		450	<1S
500	-20	508 0	730	56	615	4	660	20	36	125		500	-20
800	-24	609 6	845	68	720	5	770	20	39	125		600	-24



BOSSED

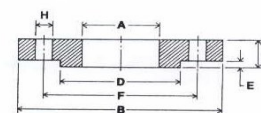


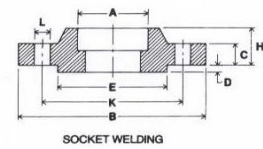
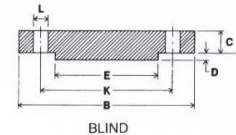
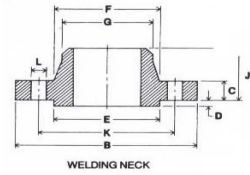
PLATE SLIP-ON WELDING

NOTES - 1 ALL DIMENSIONS ARE IN MM  
 AVAILABLE WITH OR WITHOUT RAISED FACE  
 THICKNESS DIMENSION INCLUDES RAISED FACE  
 LARGER SIZES AVAILABLE ON REQUEST  
 \* NOTE. FOR NOMINAL SIZES 15mm to 150mm USE TABLE 40

## IMPERIAL FLANGES

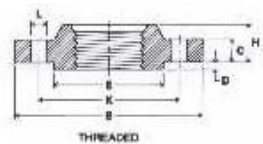
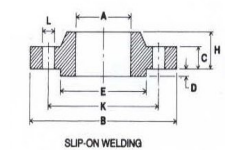
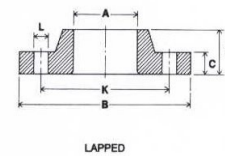
### CLASS 150(PN20)

NOMINAL PIPE SIZE mm. (Ins)	LAPPED							LENGTH THROUGH HUB			DRILLING DATA			
15 (1/2)	21.3	90	11.5	1.6	34.9	30	21.5	16	16	48	60.5	16	4	15 (1/2)
20 (3/4)	26.9	98	13	1.6	42.9	38	26.5	16	16	52	70	16	4	20 (3/4)
25 (1)	33.7	108	14.5	1.6	50.8	49	33.5	17	17	56	79.5	16	4	25 (1)
32 (11/4)	42.2	117	16	1.6	63.5	59	42	21	21	57	89	16	4	32 (11/4)
40 (11/2)	48.3	127	17.5	1.6	73	65	48.5	22	22	62	98.5	16	4	40 (11/2)
50 (2)	60.3	152	19.5	1.6	92.1	78	60.5	25	25	64	120.5	20	4	50 (2)
65 (21/2)	73	178	22.5	1.6	104.8	90	73	29	29	70	139.5	20	4	65 (21/2)
80 (3)	88.9	191	24	1.6	127	108	89	30	30	70	152.5	20	4	80 (3)
100 (4)	114.3	229	24	1.6	157.2	135	114.5	32	33	76	190.5	20	8	100 (4)
125 (5)	141.3	254	24	1.6	185.7	164	141.5	36	36	89	216	22	8	125 (5)
150 (6)	168.3	279	25.5	1.6	215.9	192	168.5	40	40	89	241.5	22	8	150 (6)
200 (8)	219.1	343	29	1.6	269.9	246	219	44	44	102	298.5	22	8	200 (8)
250 (10)	273	406	30.5	1.6	323.8	305	273	49	49	102	362	26	12	250 (10)
300 (12)	323.9	483	32	1.6	381	365	324	56	56	114	432	26	12	300 (12)
350 (14)	355.6	535	35	1.6	412.8	400	355.5	57	79	127	476	30	12	350 (14)
400 (16)	406.4	600	37	1.6	469.9	457	406.5	64	87	127	540	30	16	400 (16)
450 (18)	457.2	635	40	1.6	533.4	505	457	68	97	140	578	33	16	450 (18)
500 (20)	508	700	43	1.6	584.2	559	508	73	103	145	635	33	20	500 (20)
800 (24)	600.6	815	48	1.6	692.2	664	609.5	83	111	152	749.5	36	20	600 (24)



### CLASS 300 (PN 50)

NOMINAL PIPE SIZE mm. (Ins)	LAPPED							LENGTH THROUGH HUB			DRILLING DATA			
15 (1/2)	21.3	95	14.5	1.6	34.9	38	21.5	22	22	52	66.5	16	4	15 (1/2)
20 (3/4)	26.9	117	16	1.6	42.9	48	26.5	25	25	57	82.5	20	4	20 (3/4)
25 (1)	33.7	124	17.5	1.6	50.8	54	33.5	27	27	62	89	20	4	25 (1)
32 (11/4)	42.2	133	19.5	1.6	63.5	64	42	27	27	65	98.5	20	4	32 (11/4)
40 (11/2)	48.3	156	21	1.6	73	70	48.5	30	30	68	114.5	22	4	40 (11/2)
50 (2)	60.3	165	22.5	1.6	92.1	84	60.5	33	33	70	127	20	8	50 (2)
65 (21/2)	73	191	25.5	1.6	104.8	100	73	38	38	76	149	22	8	65 (21/2)
80 (3)	88.9	210	29	1.6	127	118	89	43	43	79	168	22	8	80 (3)
100 (4)	114.3	254	32	1.6	157.2	146	114.5	48	48	86	200	22	8	100 (4)
125 (5)	141.3	279	35	1.6	185.7	178	141.5	51	51	98	235	22	8	125 (5)
150 (6)	168.3	318	37	1.6	215.9	206	168.5	52	52	98	270	22	12	150 (6)
200 (8)	219.1	381	41.5	1.6	269.9	260	219	62	62	111	330	26	12	200 (8)
250 (10)	273	445	48	1.6	323.8	321	273	67	95	117	387.5	30	16	250 (10)
300 (12)	323.9	520	51	1.6	381	375	324	73	102	130	451	33	16	300 (12)
350 (14)	355.6	585	54	1.6	412.8	426	355.5	76	111	143	514.5	33	20	350 (14)
400 (16)	406.4	650	57.5	1.6	469.9	483	406.5	83	121	146	571.5	36	20	400 (16)
450 (18)	457.2	710	60.5	1.6	533.4	533	457	89	130	159	628.5	36	24	450 (18)
500 (20)	508	775	63.5	1.6	584.2	587	508	95	140	162	686	36	24	500 (20)
600 (24)	609.6	915	70	1.6	692.2	702	609.5	106	152	168	813	42	24	600 (24)

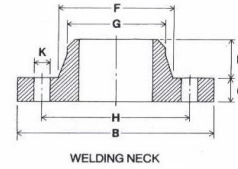


- NOTES:- 1 ALL DIMENSIONS ARE IN MM  
 2 LARGER SIZES AVAILABLE ON REQUEST  
 • NOMINAL PRESSURE RATING EXPRESSED IN BAR

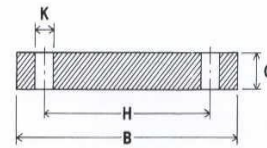
## IMPERIAL FLANGES CONTINUED

### TABLE D

NOMINAL SIZE mm. (Ins)	DIAMETER AT SMALL END OF NECK G				LENGTH THROUGH HUB						DRILLING DATA			
15	(1/2)	21.3	95	6	5	10	22	27	22	67	4	14	15	(1/2)
20	(3/4)	26.9	100	6	5	11	22	33	28	73	4	14	20	(3/4)
25	(1)	33.7	115	8	5	11	22	43	35	83	4	14	25	(1)
32	(1 1/4)	42.4	120	8	6	11	25	49	44	87	4	14	32	(1 1/4)
40	(1 1/2)	48.3	135	10	6	13	29	59	49	98	4	14	40	(1 1/2)
50	(2)	60.3	150	10	8	13	29	70	61	114	4	18	50	(2)
65	(2 1/2)	76.1	165	11	8	16	32	83	77	127	4	18	65	(2 1/2)
80	(3)	88.9	185	13	10	16	35	102	90	146	4	18	80	(3)
100	(4)	114.3	215	16	10	19	41	130	116	178	4	18	100	(4)
125	(5)	139.7	255	17	13	19	44	152	141	210	8	18	125	(5)
150	(6)	168.3	280	17	13	19	48	184	171	235	8	18	150	(6)
200	(8)	219.1	335	19	13	22	51	241	221	292	8	18	200	(8)
250	(10)	273	405	19	16	27	64	292	276	356	8	22	250	(10)
300	(12)	323	455	22	19	29	70	343	328	406	12	22	300	(12)
350	(14)	355.6	525	25	22		73	387	360	470	12	26	350	(14)
400	(16)	406.4	580	25	22					521	12	26	400	(16)
450	(18)	457	640	29	25					584	12	26	450	(18)
500	(20)	508	705	32	29					641	16	26	500	(20)
600	(24)	610	825	35	32					-	16	30	600	(24)



WELDING NECK



BLIND

### TABLE E

NOMINAL SIZE mm. (Ins)	DIAMETER AT SMALL END OF NECK G				LENGTH THROUGH HUB						DRILLING DATA			
15	(1/2)	21.3	95	6	6	10	22	27	22	67	4	14	15	(1/2)
20	(3/4)	26.9	100	6	6	11	22	33	28	73	4	14	20	(3/4)
25	(1)	33.7	115	8	7	11	22	43	35	83	4	14	25	(1)
32	(1 1/4)	42.4	120	8	8	11	25	49	44	87	4	14	32	(1 1/4)
40	(1 1/2)	48.3	135	10	9	13	29	59	49	98	4	14	40	(1 1/2)
50	(2)	60.3	150	10	10	13	29	70	61	114	4	18	50	(2)
65	(2 1/2)	76.1	165	11	10	16	32	83	77	127	4	18	65	(2 1/2)
80	(3)	88.9	185	13	11	16	35	102	90	146	4	18	80	(3)
100	(4)	114.3	215	16	13	19	41	130	116	178	8	18	100	(4)
125	(5)	139.7	255	17	14	19	44	152	141	210	8	18	125	(5)
150	(6)	168.3	280	17	17	19	48	184	171	235	8	22	150	(6)
200	(8)	219.1	335	20	19	22	51	241	221	292	8	22	200	(8)
250	(10)	273	405	25	22	27	64	292	276	356	12	22	250	(10)
300	(12)	323.9	455	28	25	29	70	343	328	406	12	26	300	(12)
350	(14)	355.6	525	32	29	-	73	387	360	470	12	26	350	(14)
400	(16)	406.4	580	32	32	-	-			521	12	26	400	(16)
450	(18)	457.2	640	35	35					584	16	26	450	(18)
500	(20)	508	705	38	38					641	16	26	500	(20)
600	(24)	609.6	825	48	48					756	16	30	600	(24)

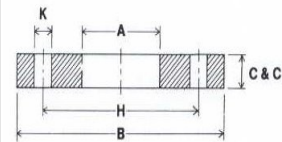
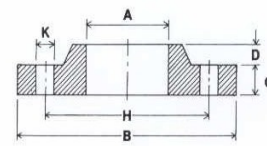


PLATE SLIP-ON WELDING



BOSSED

NOTES:- 1 ALL DIMENSIONS ARE IN MM

AVAILABLE WITH OR WITHOUT RAISED FACE

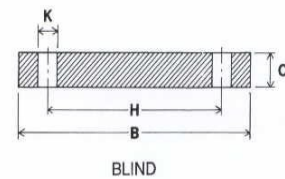
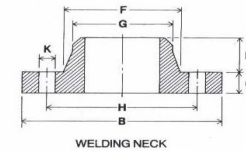
THICKNESS DIMENSION INCLUDES RAISED FACE

LARGER SIZES AVAILABLE ON REQUEST

## IMPERIAL FLANGES CONTINUED

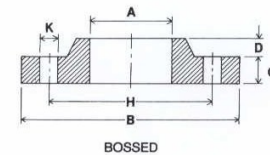
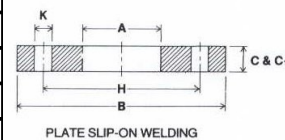
### TABLE F

NOMINAL PIPE SIZE mm. (Ins)	DIAMETER AT SMALL END OF NECK G				length through hub					DRILLING DATA				
15	(	21.3	95	8	10	10	22	27	22	67	4	14	15	(1/2)
20	(	26.9	100	8	10	11	22	33	28	73	4	14	20	(3/4)
25		33.7	120	10	10	11	29	43	35	87	4	18	25	(1)
32	(1	42.4	135	10	13	11	35	52	44	98	4	18	32	(1 1/4)
40	(1	48.3	140	11	13	13	35	59	49	105	4	18	40	(1 1/2)
50		60.3	165	11	16	13	35	70	61	127	4	18	50	(2)
65	(2	76.1	185	13	16	16	38	86	77	146	8	18	65	(2 1/2)
80		88.9	205	14	16	17	44	102	90	165	8	18	80	(3)
100		114.3	230	17	19	19	51	130	116	191	8	18	100	(4)
125		139.7	280	19	22	19	57	159	141	235	8	22	125	(5)
150		168.3	305	22	22	19	57	184	171	260	12	22	180	(6)
200		219.1	370	25	25	22	67	241	221	324	12	22	200	(8)
250	(	273	430	25	29	27	73	298	276	381	12	26	250	(10)
300	(	323.9	490	29	32	29	79	352	328	438	16	26	300	(12)
350	(	355.6	550	32	35	-	86	387	360	495	16	30	350	(14)
400	(	406.4	610	32	41					552	20	30	400	(16)
450	(	457	675	35	44					610	20	33	450	(18)
500	(	508	735	38	51					673	24	33	500	(20)
600	(	610	850	41	57	-				781	24	36	600	(24)



### TABLE H

SEE mm. (Ins)	DIAMETER AT SMALL END OF NECK G				LENGTH THROUGH HUB					DRILLING DATA				
18	(	21.3	115	10	13	10	29	30	22	83	4	18	15	(1/2)
20	(	26.9	115	10	13	11	29	35	28	83	4	18	20	(3/4)
25		33.7	120	11	14	11	29	43	35	87	4	18	25	(1)
32	(1	42.4	135	11	17	11	35	52	44	98	4	18	32	(1 1/4)
40	(1	48.3	140	13	17	13	35	59	49	105	4	18	40	(1 1/2)
50		60.3	165	13	19	13	35	70	61	127	4	18	50	(2)
65	(2	76.1	185	14	19	16	38	86	77	146	8	18	65	(2 1/2)
80		88.9	205	16	22	16	44	102	90	165	8	18	80	(3)
100		114.3	230	19	25	19	51	130	116	191	8	18	100	(4)
125		139.7	280	22	29	19	57	159	141	235	8	22	125	(5)
150		168.3	305	25	29	19	57	184	171	260	12	22	150	(6)
200		219.1	370	32	32	22	67	241	221	324	12	22	200	(8)
250	(	273	430	35	35	27	73	298	276	381	12	26	250	(10)
300	(	323.9	490	38	41	29	79	352	328	438	16	26	300	(12)
350	(	355.6	550	41	48		86	413	385	495	16	30	350	(14)
400	(	406.4	610	44	54					552	20	30	400	(16)
450	(	457	675	48	60					610	20	33	450	(18)
500	(	508	735	51	67					673	24	33	500	(20)
600	(	610	850	57	76					781	24	36	600	(24)

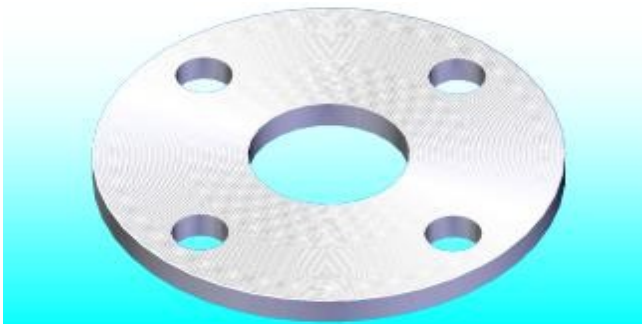


NOTES:- 1 ALL DIMENSIONS ARE IN MM

2 LARGER SIZES AVAILABLE ON REQUEST

## FLANGES

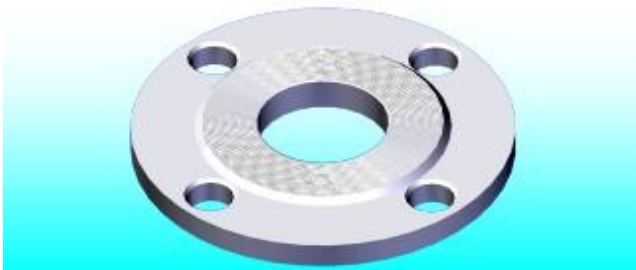
<b>S/S TABLE FLANGES TO SUIT TUBE OR PIPE</b>					
SIZE	TD 304	TD 316	TE 304	TE 316	TH 316
12mm					
18mm					
25mm					
31mm					
38mm					
50mm					
63mm					
76mm					
100mm					
125mm					
150mm					
200mm					
250mm					
300mm					



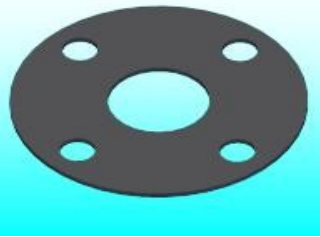
<b>S/S BLIND TABLE FLANGES</b>				
SIZE	TD 304	TD 316	TE 304	TE 316
12mm				
18mm				
25mm				
31mm				
38mm				
50mm				
63mm				
76mm				
100mm				
125mm				
150mm				
200mm				
250mm				
300mm				

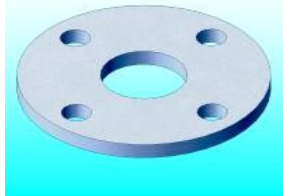


<b>S/S DIN &amp; ANSI FLANGES TO SUIT TUBE, PIPE OR BLIND</b>		
SIZE	DIN 16	ANSI 150
12mm		
18mm		
25mm		
31mm		
38mm		
50mm		
63mm		
76mm		
100mm		
125mm		
150mm		



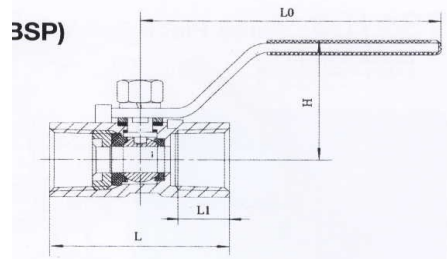
## FLANGES CONTINUED

EPDM FLANGE GASKETS		
	TD/ TE	DIN/ ANSI
SIZE		
12mm		
18mm		
25mm		
31mm		
38mm		
50mm		
63mm		
76mm		
100mm		
125mm		
150mm		
200mm		
250mm		

GALV. BACKING FLANGES		
SIZE	TD	TE
25mm		
31mm		
38mm		
50mm		
63mm		
76mm		
100mm		
125mm		
150mm		
200mm		
250mm		
300mm		

## BALL VALVES

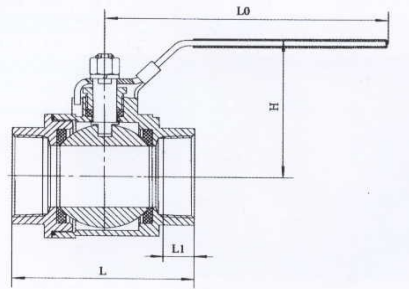
### One Piece Ball Valve (BSP) Reduced Bore



- >- 316 S/S with PTFE Seat.
- >- 1000psi(69Bar) WOG
- >- Thread parrallel to BS21
- 25 C to 150 C

Size	L	L1	H	L0	Weight Kg
1/4"	39	9.5	26	66	0.1
3/8"	44	10.5	28	79	0.13
1/2"	56.5	14	40	96	0.19
3/4"	59	15	44	96	0.27
1"	71	18	50	101	0.43
1 1/4"	78	19	54	101	0.67
1 1/2"	83	20	70	135	0.86
2"	100	23	75	135	1.47

### Two Piece Ball Valve (BSP) Full Flow



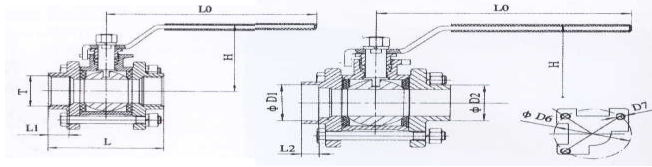
- >- 316 S/S with PTFE Seat.
- >- Full Bore.
- >- 1000psi (69 Bar) WOG
- >- Thread parrallel to BS21
- 25 C to 150 C

Size	L	L1	H	L0	Weight Kg
1/4"	52	11	52	104.5	0.26
3/8"	52	12	52	104.5	0.26
1/2"	63	13.5	56.5	125	0.38
3/4"	73.5	16	58.5	125	0.53
1"	79	14.5	74	160	0.86
1 1/4"	101	20	80	160	1.29
1 1/2"	109	19	92	190	1.97
2"	123	22	103	190	3
2 1/2"	164	30	118	280	6.06
3"	180	32	127	280	9.26



## BALL VALVES CONTINUED

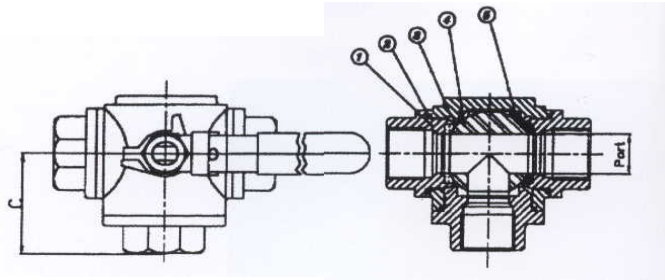
### Three Piece Ball Valve (BSP) – Full Flow



- >- 316 S/S with PTFE Seat.
- >- Full Bore.
- >- 1000psi(69Bar) WOG
- >- Thread parrallel to BS21
- 25 C to 150 C

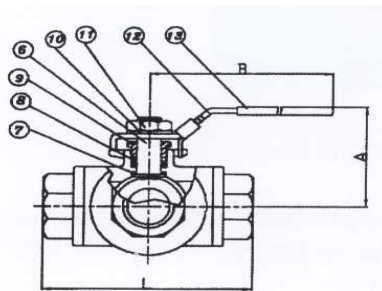
Size	L	L0	L1	L2	D1	2	D6	D7	H	Weight Kg
1/4"	65	103	10	10	14.1	18.1	36	M5	40	0.55
3/8"	65	103	10	10	17.5	18.1	36	M5	40	0.55
1/2"	70.5	125	14	10	21.7	21.7	40	M5	54	0.59
3/4"	85	160	14.5	13	27.1	27.2	36	M5	70	0.93
1"	95	160	16.8	13	33.8	34	36	M5	74	1.18
1 1/4"	111	190	19.1	13	42	42.7	50	M6	92	2.13
1 1/2"	121	190	19.1	13	48.6	48.6	50	M6	97	2.83
2"	140	190	23.4	16	61	60.5	50	M6	105	4.18
2 1/2"	173	283	29	16	73.8	76.3	70	M8	125	8.47
3"	192	283	30	16	89.8	89.1	102	M10	136	13.14
4"	225	332	32	19	115.5	114	102	M10	168	21.25

### Three Way Ball Valve L and T Port (BSP) – Reduced Bore



- >- 316 S/S with PTFE Seat.
- >- Reduced Port.
- >- 1000psi (69 Bar) WOG

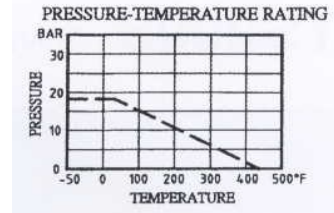
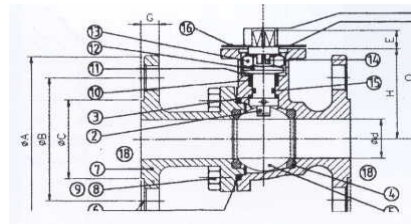
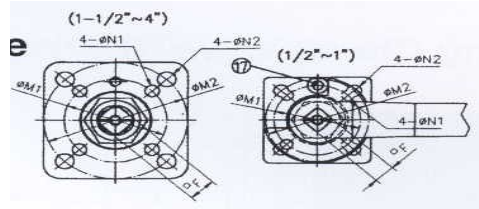
Size	A	B	C	L	Port
1/2"	52	140	36	72	12
3/4"	56	140	41.5	83	15
1"	70	162	49.5	99	20
1 1/4"	76	162	56	112	25
1 1/2"	82	195	62.5	125	32
2"	91	195	74.5	149	38



## BALL VALVES/VALVES

### Two Piece Ball Valve

(FLANGED ANSI150 OR TABLE D & E)



- > 316 S/S PTFE Seat.
- > Fire Safe Design

### ANSI150

### Torque Operate

Size	A	B	C	D	E	F	G	H	L	M1	M2	N1	N2	0	P	JXN	ISO 5211	Torque Break	Torque Operate
1"	108	79.5	51	25.4	12	11	11.1	58.2	127	42	50	6	7	78.7	165	5/8"x 4"	F04/F05	15.68	7.06
1 1/2"	127	98.5	73	38.1	16	14	14.2	79.5	165	50	70	7	9	106	195	5/8"x 4"	F05/F07	34.3	15.68
2"	152	120.5	92	50.8	16	14	15.7	88	178	50	70	7	9	114.4	195	3/4"x 4"	F05/F07	47.04	18.62
2 1/2"	178	139.5	104.5	63.5	19	17	17.5	104.5	190	70	102	9	11	134.3	230	3/4"x 4"	F07/F10	66.64	29.4
3"	190	152.5	127	76.2	19	17	19.1	113.5	203	70	102	9	11	143.3	230	3/4"x 4"	F07/F10	82.32	41.16
4"	229	190.5	157	101.6	24	22	23.8	141	229		102		11	175.4	325	3/4"x 8"	F10	161.7	98

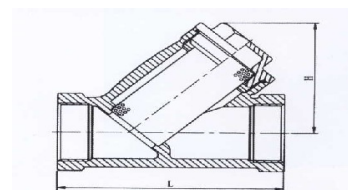
### Table D & E

Size	Table	A	B	C	D	E	F	G	H	L	M1	M2	N1	N2	0	P	JXN	ISO5211	Torque Break	Torque Operate
1"	TD/E	115	83	51	25.4	12	11	12	58.2	127	42	50	6	7	78.7	165	12X4	F04/F05	10	5
1 1/2"	TD/E	135	98	73	38.1	16	14	12	79.5	165	50	70	7	9	106	195	12X4	F05/F07	15	8
2"	TD/E	150	114	92	50.8	16	14	12	88	178	50	70	7	9	114.4	195	16X4	FO5/FO7	36	20
2 1/2"	TD/E	165	127	104.5	63.5	19	17	12	104.5	190	70	102	9	11	134.3	230	16X4	F07/F10	40	25
3"	TD/E	185	146	127	76.2	19	17	12	113.5	203	70	102	9	11	143.3	230	16X4	F07/F10	60	40
4"	TD	215	178	157	101.6	24	22	12	141	229	j	102	11	11	175.4	325	16X4	F10	98	60
4"	TE	215	178	157	101.6	20	22	12	141	229		102		11	175.4	325	16X8	F10	98	40

### Y Strainer (BSP)

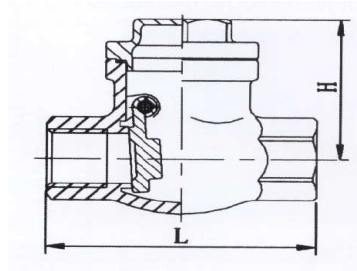
- > 316 S/S with PTFE Seat.
- > 600psi (41 Bar) WOG
- > Maximum 230° Celcius

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
L	76	91.5	107.5	126	140.5	171	171	196
H	33	39	45	52	64	78	120	50
Weight Kg	0.38	0.56	0.87	1.38	1.91	3.02	5.2	7.1



## VALVES

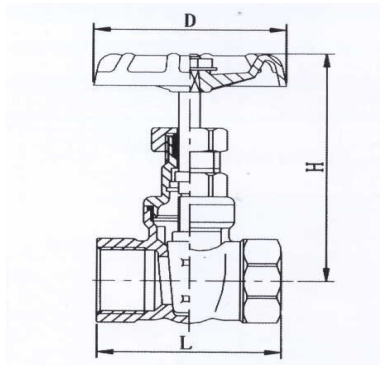
### Swing Check Valve (BSP)



- >- 316 S/S with PTFE Seat.
- >- Class 200
- >- Integral Seat.

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
<b>L</b>	65	78	89	106	119	140	160	200
<b>H</b>	45	46	49	56	62	72	90	104
<b>Weight Kg</b>	0.32	0.54	0.72	1.06	1.72	2.34	5.5	7.95

### Gate Valve (BSP)

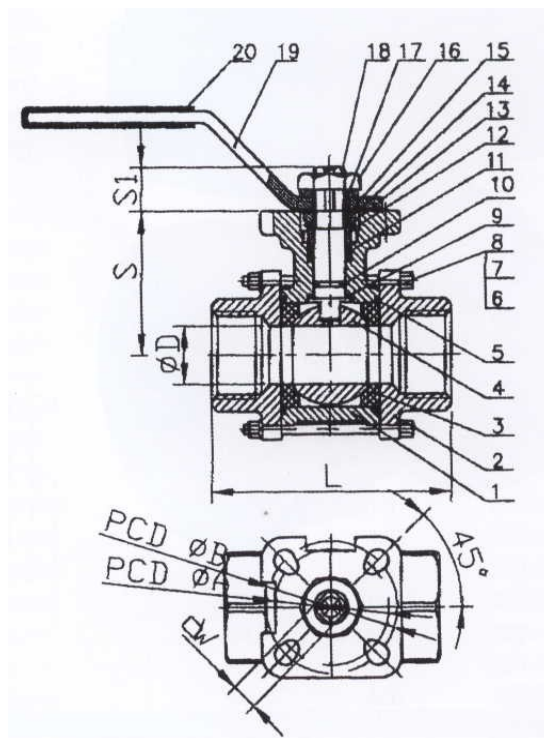
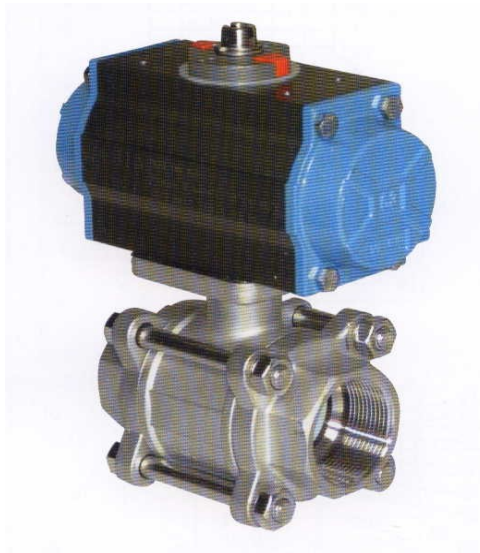


- >- 316 S/S with PTFE Seat.
- >- Integral Seat.
- >- 200psi (14 Bar) WOG

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
<b>L</b>	53	57	64.5	83	76.5	86.5
<b>H</b>	98	107	116	126	141	168
<b>D</b>	70	70	80	80	90	100
<b>Weight Kg</b>	0.45	0.6	0.67	0.9	1.26	1.9

## ACTUATORS

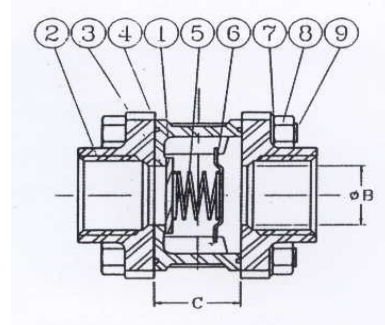
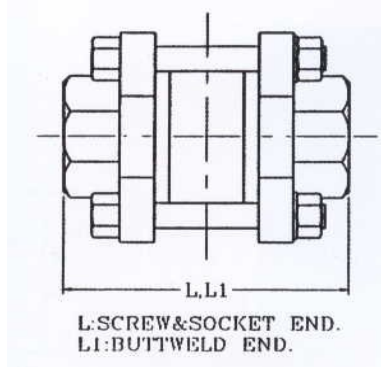
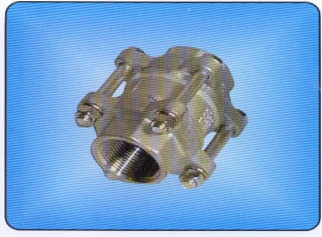
### Three Piece Screwed Ball Valve with Actuator Spring Return or Double Acting



Size	D	L	S	S1	W	PCD A	PCD B
1/2"	15	64	38.6	7	9	F03	F04
3/4"	20	73	46.2	9	9	F03	F04
1"	25	85	56.6	11	9	F04	F06
1 1/4"	32	96	61	12	11	F04	F06
1 1/2"	38	114	76.3	12	11	F05	F07
2"	50.8	134	84.1	16	14	F05	F07
2 1/2"	65	180	108.7	19	17	F07	F10
3"	80	200	117.4	19	17	F07	F10
4"	100	228	132.5	19	17	F07	F10

## VALVES CONTINUED

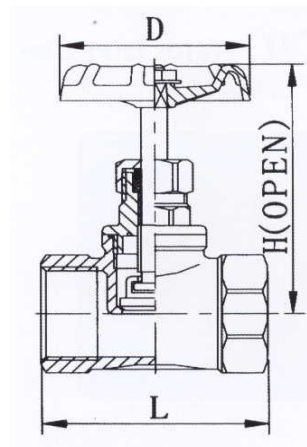
### Check Spring Valve (BSP)



- >- 316 S/S with PTFE Seat.
- >- 1000psi (69 Bar) WOG

Size	B	L	L1	C
1/2"	14	65	65	18
3/4"	18.1	70	80	22
1"	24.2	78	88	27.5
1 1/4"	30.2	96	96	32
1 1/2"	36.2	102	107	37
2"	48.3	118	128	47

### Globe Valve (BSP)

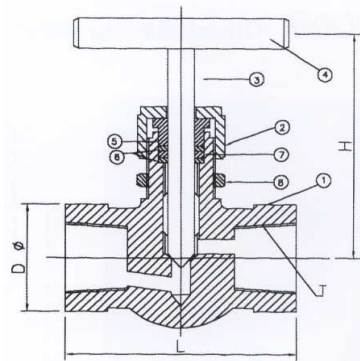
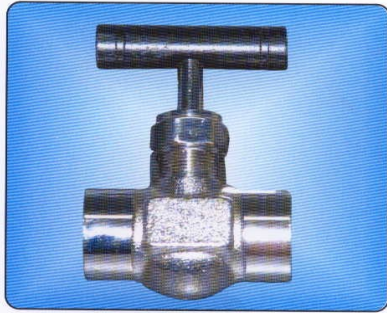


- >- 316 S/S.
- >- Integral Seat.
- >- 200psi(14Bar) WOG

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	50	58	70.5	82	88	109.5
H	104	106	114	130	135	146
D	70	80	80	90	100	113
Weight Kg	0.32	0.68	0.78	0.88	1.3	2.1

## VALVES CONTINUED

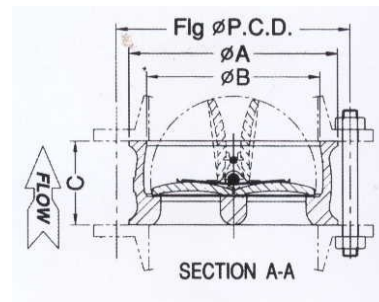
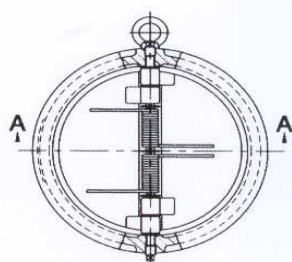
### Needle Valve (NPT)



- >- 316 S/S with Teflon Gland Seal.
- >- 3000psi - 8000 psi at 38-66°C

Size	L	D	H-Close	H-Open
1/4"	50	19	52	58
3/8"	50	23	55	62
1/2"	64	30	67	73
3/4"	64	37	70	78
1"	78	43	90	100

### Wafer Duo Check Valve (flanged ansi150)

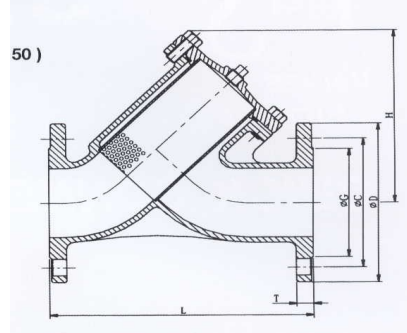


- >- 316 S/S.
- >- 150 lb pressure rating.

Size	Pressure Rating	A	B	C	Dia of Bolt Circle	Weight Kg
2"	150lb	4.12"	2.36"	2.37"	4.75"	2.5
2 1/2"	150lb	4.87"	2.87"	2.62"	5.5"	3
3"	150lb	5.37"	3.5"	2.87"	6"	4.5
4"	150lb	6.87"	4.49"	2.87"	7.5"	8
6"	150lb	8.75"	6.61"	3.87"	9.5"	13
8"	150lb	11"	8.62"	5"	11.75"	28

## VALVES CONTINUED

### Y Strainer (flanged ansi150)

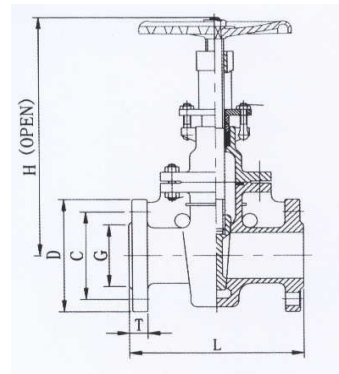


>- 316 S/S.

>- 2mm Perforation

Size	L	H	D	C	G	T
2"	210	140	152	120.5	92	15.9
2 1/2"	250	175	178	139.5	105	17.5
3"	280	196	190	152.5	127	19.1
4"	340	244	229	190.5	157	23.9
6"	420	320	279	241.5	216	25.4

### Gate Valve (flanged ansi150)



>- 316 S/S.

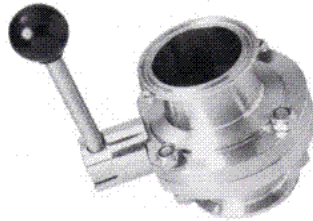
>- Test Pressure: Shell - 450psi  
Seat - 315psi

Size	L	H	D	C	G	T
2"	178	320	152	120.5	92	15.9
2 1/2"	190	375	178	139.5	105	17.5
3"	203	445	190	152.5	127	19.1
4"	229	523	229	190.5	157	23.9

## Butterfly Valves

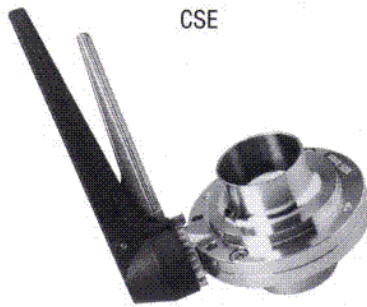
### M & S / L.K. Buttweid Butterfly Valve – 4 Position Handle

4 Position Handle  
M & S / L.K. Buttweid



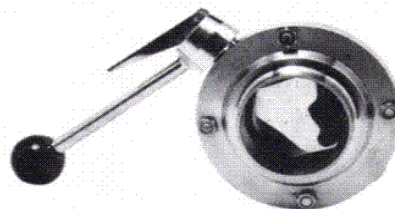
### CSE Butterfly Valve

CSE



### SUDMO Butterfly Valve

Sudmo





## DIAPHRAGMS VALVES

### FULL FLOW DIAPHRAGM VALVE

SIZE	PLAIN	MALE/ MALE	DIAPHRAGM (EPDM)
25mm			
38mm			
50mm			
63mm			
76mm			
100mm			



### WEIR TYPE DIAPHRAGM VALVE

SIZE	PLAIN	BSP FEMALE	FLANGED "E"	DIAPHRAGM M14
12mm				
18mm				
25mm				
31mm				
38mm				
50mm				

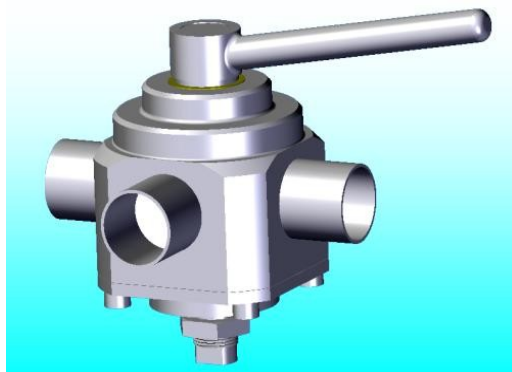


### 3 WAY ROTARY DIVERTING VALVE

SIZE
25mm
38mm
50mm
63mm
76mm
100mm

ACTUATED
25mm
38mm
50mm
63mm
76mm
100mm



### INLINE 45 NON RETURN VALVE DEGREE POLISHED

SIZE (INCHES)	SIZE (MM)
1"	25
1 ¼"	31
1 ½"	38
2"	50
2 ½"	63
3"	76
4"	100



## COMPRESSION FITTINGS

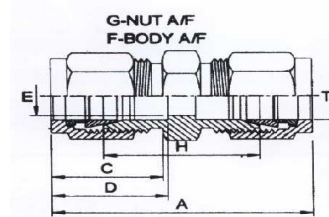
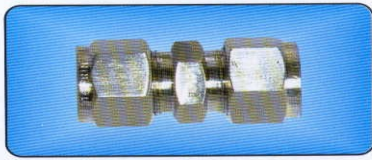


**316**  
Stainless Steel  
Compression  
Fittings

### Straight Connector

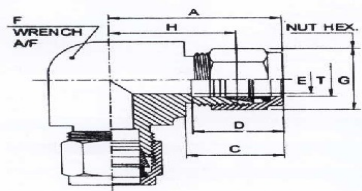
SEAMLESS TUBE WALL THICKNESS (SWG/INCH)

	Tube OD	22 0.028	20 0.035	18 0.049	16 0.064	14 0.083	12 0.104
Max	1/4"	4000	5000	7500	10200		
Working	3/8"		3300	4800	6500		
Pressure	1/2"		2400	3500	4700	6200	
In	5/8"			2900	4000	5200	6000
PSI	3/4"			2400	3300	4200	4900
	1"				2400	3100	3600



Size Tube OD	Part Number	A	C	D	E Min	F A/F	G A/F	H Body
1/8"	TSU2	35.3	15.3	12.7	2.4	11	11	22.2
1/4"	TSU4	40.9	17.7	15.3	4.8	12.7	14	26.2
3/8"	TSU6	45	19.3	16.8	7	17	17	30.2
1/2"	TSU8	51.2	22	22.9	10.4	20.6	22	31
5/8"	TSU10	52.3	22	24.6	12.7	24	25	31.8
3/4"	TSU12	54	22	24.6	15.8	27	27	33.3
1"	TSU16	64.8	26.5	31.2	22.2	36	38	40.4

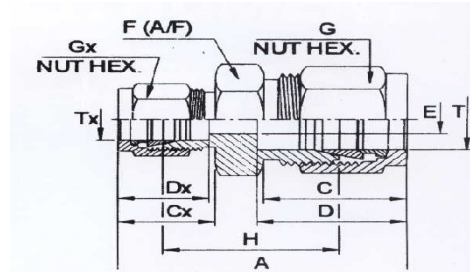
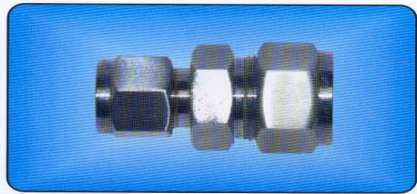
### Union Elbow



Size Tube OD	Part Number	A	C	D	E Min	F A/F	G A/F	H Body
1/8"	TSEU2	22.3	15.3	12.7	2.4	11	11	16.6
1/4"	TSEU4	27	17.7	15.3	4.8	12	14	18.3
3/8"	TSEU6	30.5	19.3	16.8	7	17	17	21.4
1/2"	TSEU8	36	22	23	10.5	20.5	22	24.6
5/8"	TSEU10	38	22	24.6	12.7	22	25	26.1
3/4"	TSEU12	39.9	22	24.6	15.8	27	28.5	29.4
1"	TSEU16	49	26.5	31.2	22.2	35	38.1	33.3

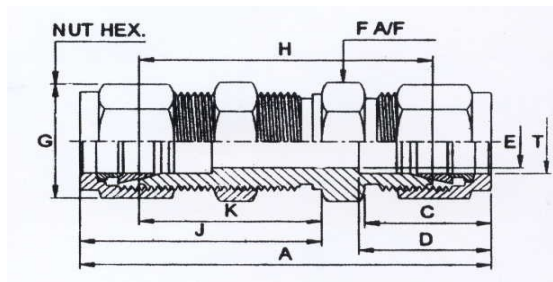
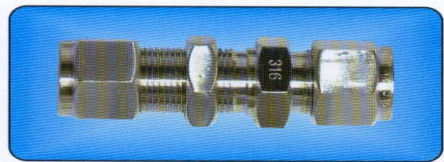
## COMPRESSION FITTINGS CONTINUED

### Reducing Union



Size Tube OD	Part Number	A	C	Cx	D	Dx	E	F A/F	G Nut	GX Nut	H Body
1/4-1/8	TSUR42	38.6	17.7	15.3	15.3	12.7	2.4	13	14	11	24.6
3/8-1/4	TSUR64	43.2	19.3	17.7	16.8	15.3	4.8	17	17	14	28.5
1/2-1/4	TSUR84	47	22	17.7	23	15.3	4.8	22	22	14	29.4
1/2-3/8	TSUR86	48.5	22	19.3	23	16.8	7.1	22	22	17	30.9
3/4-3/8	TSUR126	51	22	19.3	24.6	16.8	7.1	27	29	17	33.3
1"-3/4"	TSUR1612	60.3	26.5	22	31.2	24.6	15.7	35	38	28.5	38.1

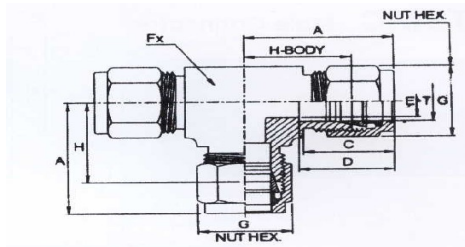
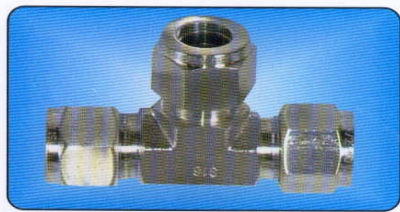
### Bulk Head Union



Size Tube OD	Part Number	A	C	D	E	F A/F	G A/F	H	J	K	Panel Size
1/8"	TSBHU2	52.3	15.3	12.7	2.4	12.7	11	38.1	32	24.6	8.3
1/4"	TSBHU4	57.7	17.7	15.3	4.8	16	14	42.8	34	26.2	11.5
3/8"	TSBHU6	62.5	19.3	16.8	7	22	17	47.6	37.3	29.5	14.6
1/2"	TSBHU8	71	22	23	10.3	24	22	50.8	42	32	19.4
5/8"	TSBHU10	72.5	22	24.6	12.7	27	25	52.4	42.9	32.5	22.6
3/4"	TSBHU12	79	22	24.6	15.8	32	28.5	58.7	47.6	37.3	25.7
1"	TSBHU16	95.8	26.5	31.2	22.2	41	38.1	71.4	57.2	45.2	33.7

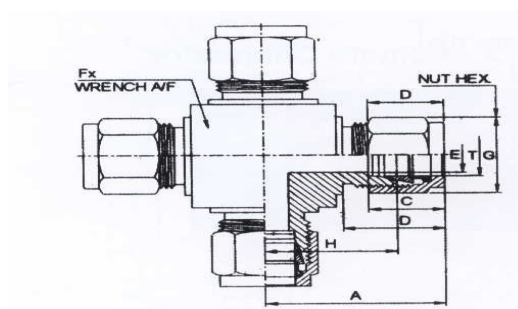
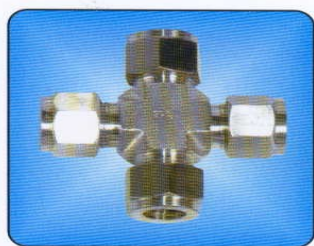
## COMPRESSION FITTINGS CONTINUED

### Union Tee



Size Tube OD	Part Number	A	C	D	E	Fx A/F	G A/F	H Body
1/8"	TSTU2	22.3	15.3	12.7	2.4	11	11	16.6
1/4"	TSTU4	27	17.7	15.3	4.8	12	14	18.3
3/8"	TSTU6	30.5	19.3	16.8	7	17	17	21.4
1/2"	TSTU8	36	22	22.9	10.3	20.6	22	24.6
5/8"	TSTU10	38	22	24.6	12.7	24	25	26.1
3/4"	TSTU12	39.9	22	24.6	15.8	27	28.5	29.4
1"	TSTU16	49	26.5	31.2	22.2	35	38.1	33.3

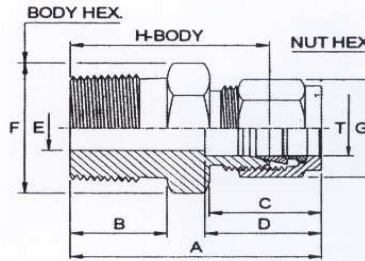
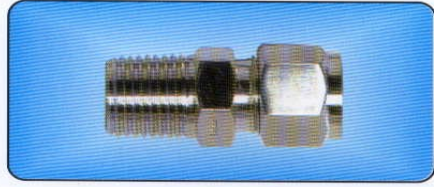
### Union Cross



Size Tube OD	Part Number	A	C	D	E	Fx A/F	G A/F	H Body
1/4"	TSCR4	27	17.7	15.3	4.8	12	14	18.3
3/8"	TSCR6	30.5	19.3	16.8	7	17	17	21.4
1/2"	TSCR8	36	22	22.9	10.3	22	22	24.6

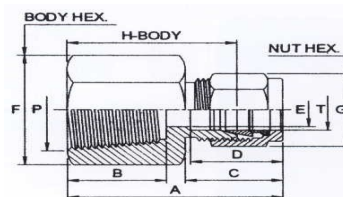
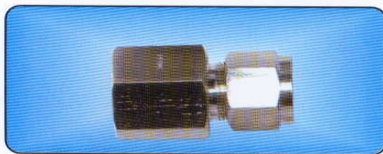
## COMPRESSION FITTINGS CONTINUED

### Male Connector



Size OD-Thread	Part Number	A	B	C	D	E Min	F A/F	G A/F	H Body
1/8 ~ 1/8	TSMC22	30.3	9.5	15.3	12.7	2.4	11	11	23.8
1/4 ~ 1/4	TSMC44	38	14	17.7	15.3	4.8	14	14	30.5
1/4 ~ 3/8	TSMC46	38.5	14	17.7	15.3	4.8	17	14	31
1/4 ~ 1/2	TSMC48	44.5	19	17.7	15.3	4.8	22	14	36.5
3/8 ~ 1/4	TSMC64	40.5	14	19.3	16.8	7.1	16	17	32.5
3/8 ~ 3/8	TSMC66	40.5	14	19.3	16.8	7.1	17	17	32.5
3/8 ~ 1/2	TSMC68	46	19	19.3	16.8	7.1	22	17	38.8
1/2 ~ 3/8	TSMC86	43.4	14	22	22.9	10.4	20.5	22	33.3
1/2 ~ 1/2	TSMC88	49	19	22	22.9	10.4	22	22	38.9
1/2 ~ 3/4	TSMC812	49.2	19	22	22.9	10.4	27	22	40.3
5/8 ~ 1/2	TSMC108	49.2	19	22	24.4	11.9	24	25	39
3/4 ~ 1/2	TSMC128	50.5	19	22	24.4	11.9	27	28.5	40.5
3/4 ~ 3/4	TSMC1212	50.5	19	22	24.4	15.8	27	28.5	40.5
3/4 ~ 1"	TSMC1216	57	23.8	22	24.4	15.8	36	28.5	47
1" ~ 1"	TSMC1616	62.3	23.8	26.5	31.2	22.2	36	38.1	50

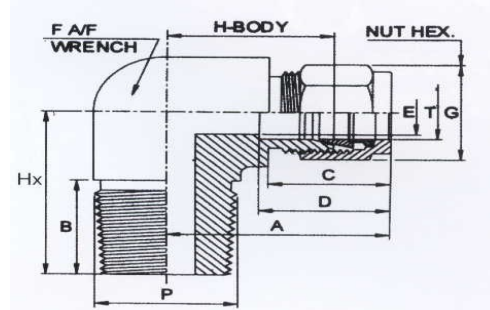
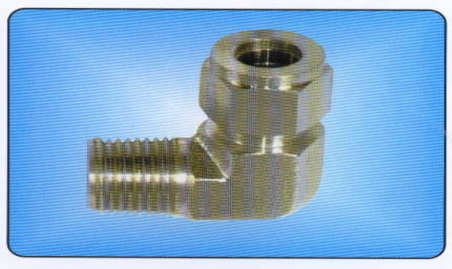
### Female Connector



Size OD-Thread	Part Number	A	B	C	D	E Min	F A/F	G A/F	H Body
1/4~1/8	TSFC42	31.7	9.5	17.7	15.3	4.8	14	14	23.8
1/4 ~ 1/4	TSFC44	36.5	14	17.7	15.3	4.8	19	14	28.6
3/8 ~ 3/8	TSFC66	39.7	14	19.3	16.8	7.1	22	17	31.8
1/2 - 1/2	TSFC88	46.8	19	22	22.9	10.4	27	22	36.5
3/4 . 1/2	TSFC128	46.5	19	22	24.4	15.8	27	28.5	36.5
3/4~ 3/4	TSFC1212	48.4	19	22	24.4	15.8	32	28.5	38.1
1" ~ 1"	TSFC1616	61.9	23.8	26.5	31.2	22.2	42	38.1	50

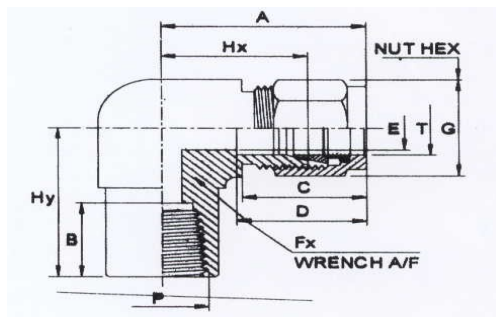
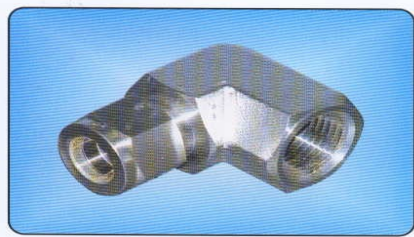
## COMPRESSION FITTINGS CONTINUED

### Male Elbow



Size OD-Thread	Part Number	A	B	Hx	D	E Min	F A/F	G A/F	H Body	C
1/8 - 1/8	TSEM22	23.6	9.5	17	15.3	12.7	2.4	11	11	17.8
1/4 - 1/4	TSEM44	27	14	19.5	17.7	15.3	4.8	14	14	23.4
3/8 ~ 1/4	TSEM64	30.5	14	23.1	19.3	16.8	7.1	16	17	25.4
3/8 ~ 3/8	TSEM66	31.2	14	23.9	19.3	16.8	7.1	17	17	26.2
1/2 ~ 1/2	TSEM88	36	19	25.9	22	22.9	10.3	22	22	33
3/4~3/4	TSEM1212	39.8	19	29.7	22	24.4	15.9	27	28.5	36.8
1" ~ 1"	TSEM1616	49.1	23.8	36.8	26.5	31	22.2	36	38.1	46.5

### Female Elbow



Size OD-Thread	Part Number	A	B	C	D	E Min	Fx A/F	Gx A/F	Hy	Hx Body
1/4 ~ 1/4	TSEF44	30	14	17.7	15.3	4.7	19	14	21.4	22.2
3/8 ~ 3/8	TSEF66	34	14	19.3	16.8	7.1	22	17	21.4	26
1/2 - 1/2	TSEF88	39	19	22	22.9	10.4	27	22	27	28.7

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

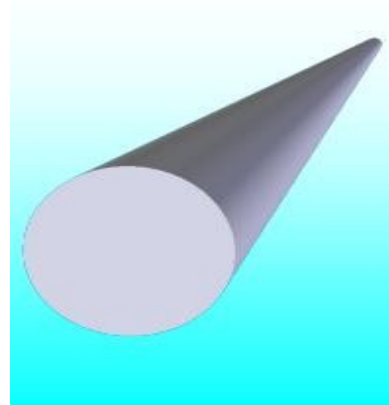
Fax: (02) 9688 4645

Email: sales@msstainless.com.au

M & S Stainless Supplies

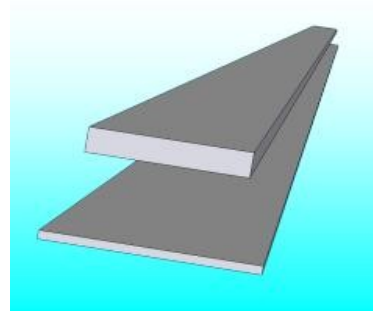
## BAR

<b>STAINLESS STEEL ROUND BAR</b>		
<b>BRIGHT FINISH - MINUS TOLERANCE</b>		
<b>SIZE</b>	<b>SIZE</b>	<b>APPROX.</b>
<b>(MM)</b>	<b>(IMP)</b>	<b>KG/M</b>
3.18	1/8"	0.06
3.96	5/32"	0.1
4.76	3/16"	0.14
5		0.16
6		0.23
6.35	1/4"	0.25
7.94	5/16"	0.39
8		0.4
9.53	3/8"	0.56
10		0.62
11.11	7/16"	0.76
12		0.89
12.7	1/2"	0.99
14		1.22
14.28	9/16"	1.26
14.63		1.33
15.88	5/8"	1.55
16		1.58
17.46		1.88
19.05		2.24
20		2.47
22.23	7/8"	3.04
24		3.55
25		3.85
25.4	1"	3.97
28		4.84
28.58	1 1/8"	5.03
30		5.55
31.75	1 1/4"	6.21
33		6.72
34.93	1 3/8"	7.51
35		7.55
36		8
38.1	1 1/2"	8.94
40		9.87
41.28	1 5/8"	10.5
44.45	1 3/4"	12.17
47.63	1 7/8"	13.97
50		15.41
50.8	2"	15.9
53.97	2 1/8"	17.95
57.15	2 1/4"	20.12
60		22.2
63.5	2 1/2"	24.84
69.85	2 3/4"	30.05
76.2	3"	35.76
82.55	3 1/4"	41.98
88.9	3 1/2"	48.68
95.25	3 3/4"	55.88
101.6	4"	63.59



**BAR CONTINUED**

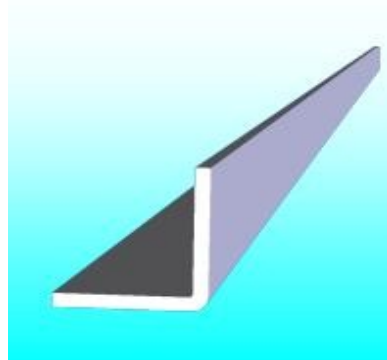
<b>STAINLESS STEEL FLAT BAR</b>		
<b>(MAY BE IMPERIAL OR METRIC)</b>		
<b>SIZE</b>	<b>SIZE</b>	<b>APPROX.</b>
<b>(MM)</b>	<b>(IMP)</b>	<b>KG/M</b>
12x3	1/2"x1/8"	0.32
20x3	3/4"x1/8"	0.48
25x3	1"x1/8"	0.63
30x3	1 1/4"x1/8"	0.79
40x3	1 1/2"x1/8"	0.95
50x3	2"x1/8"	1.3
20x5	3/4"x3/16"	0.79
25x5	1"x3/16"	0.99
30x5	1 1/4"x3/16"	1.19
40x5	1 1/2"x3/16"	1.58
50x5	2"x3/16"	1.97
65x5	2 1/2"x3/16"	2.57
75x5	3"x3/16"	2.96
12x6	1/2"x1/4"	0.65
20x6	3/4"x1/4"	0.97
25x6	1"x1/4"	1.3
30x6	1 1/4"x1/4"	1.62
40x6	1 1/2"x1/4"	1.93
50x6	2"x1/4"	2.59
65x6	2 1/2"x1/4"	3.25
75x6	3"x1/4"	3.89
100x6	4"x1/4"	5.18
20x10	3/4"x3/8"	1.58
25x10	1"x3/8"	1.97
30x10	1 1/4"x3/8"	2.43
40x10	1 1/2"x3/8"	3.16
50x10	2"x3/8"	3.96
65x10	2 1/2"x3/8"	5.13
75x10	3"x3/8"	5.93
100x10	4"x3/8"	7.9
25x12	4"x3/8"	2.59
30x12	1 1/4"x1/2"	3.25
40x12	1 1/2"x1/2"	3.89
50x12	2"x1/2"	5.18
65x12	2 1/2"x1/2"	6.48
75x12	3"x1/2"	7.77
100x12	4"x1/2"	10.36
40x16	1 1/2"x5/8"	5.05
50x16	2"x5/8"	6.48
65x16	2 1/2"x5/8"	8.21
25x20	1 "x3/4"	3.96
40x20	1 1/2"x3/4"	6.32
50x20	2"x3/4"	7.9
75x20	3"x3/4"	11.9
100x20	4"x3/4"	15.8
50x25	2"x1"	10.36
75x25	3"x1"	15.48
100x25	4"x1"	20.69
127x10	5"x3/8"	10.16
150x10	6"x3/8"	11.83





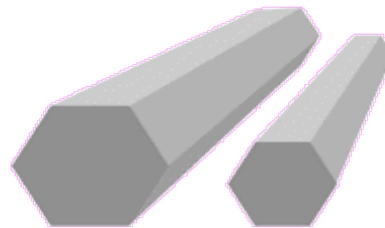
**BARS CONTINUED**

<b>STAINLESS ANGLE (PLEASE NOTE - MAY BE IMPERIAL OR METRIC SIZE)</b>		
<b>SIZE (MM)</b>	<b>SIZE (IMP)</b>	<b>APPROX. KG/M</b>
20 x 20 x 3	3/4" x 3/4" x 1/8"	0.9
25 x 25 x 3	1" x 1" x 1/8"	1.21
25 x 25 x 5	1"x1" x 3/16"	1.77
25 x 25 x 6	1"x 1"x 1/4"	2.26
30 x 30 x 3	1 1/4" x 1 1/4" x 1/8"	1.53
30 x 30 x 5	1 1/4" x 1 1/4" x 3/16"	2.25
30 x 30 x 6	1 1/4" x 1 1/4" x 1/4"	2.92
40 x 40 x 3	1 1/2" x 1 1/2" x 1/8"	1.86
40 x 40 x 5	1 1/2" x 1 1/2" x 3/16"	2.98
40 x 40 x 6	1 1/2" x 1 1/2" x 1/4"	3.56
50 x 50 x 3	2" x 2" x 1/8"	2.5
50 x 50 x 5	2" x 2" x 3/16"	3.79
50 x 50 x 6	2" x 2" x 1/4"	4.95
50x50x 10	2" x 2" x 3/8"	7.06
65 x 65 x 6	2 1/2" x 2 1/2" x 1/4"	6.16
65 x 65 x 0	2 1/2" x 2 1/2" x 3/8"	9.48
75 x 75 x 6	3" x 3" x 1/4"	7.46
75x75x 10	3" x 3" x 3/8"	11.1
100x100x6	4" x 4" x 1/4"	10.05
100x100x10	4" x 4" x 3/8"	15
127 x 127 x 10	5" x 5" x 3/8"	20.1
150 x 150 x 10	6" x 6" x 3/8"	23.7

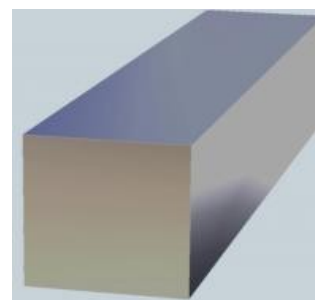


## BARS CONTINUED
















<b>STAINLESS HEXAGONS</b>		
SIZE (MM)	APPROX. IMP SIZE	APPROX. KG/M
7.92	0.312"	0.44
8	0.315"	0.45
9.53	0.375"	0.65
11.3	0.445"	0.91
13.34	0.525"	1.25
15.24	0.600"	1.63
17	0.669"	2.02
18.03	0.710"	2.27
19.05	0.750"	2.53
20.83	0.820"	3.02
22.23	0.875"	3.43
23.37	0.920"	3.79
25.65	1.010"	4.56
28.58	1.125"	5.65
30.48	1.200"	6.42
31.75	1.250"	6.96
33.05	1.301"	7.54
34.93	1.375"	8.53
37.59	1.480"	9.86
42.42	1.670"	12.5
47.63	1.875"	15.73
50.8	2.000"	17.87
57.15	2.250"	22.57
63.5	2.500"	27.83






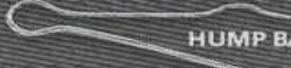


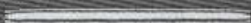
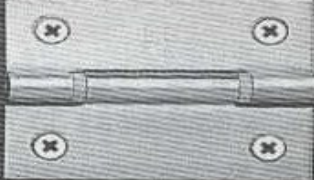
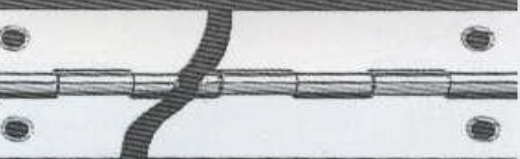

<b>STAINLESS STEEL SQUARE BAR</b>	
<b>METRIC ONLY</b>	
SIZE (MM)	APPROX. KG/M
6 X 6	0.33
8 X 8	0.53
10 X 10	0.8
12 X 12	1.27
16 X 16	2.05
20 X 20	2.98
25 X 25	5.18






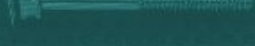




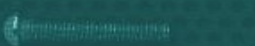



## FASTENERS

	<b>HEXAGON NUTS</b>	From M1 to M48 No. 2 to 1.3/4 10BA to 2BA	304 316 and 552343
	<b>HEXAGON NUTS LEFT-HAND THREAD</b>	From M6 to M16 and 1/4 to 1/2	304
	<b>LOCK NUTS</b>	From M4 to M30 and 1/4 to 1"	304 and 316
	<b>GLENLOCH<sup>®</sup> NUTS</b>	From M5 to M20 and 3/16 to 5/8	304
	<b>NYLON INSERT LOCK NUTS</b>	From M2 to M30 and No. 4 to 1.1/2"	304 and 316
	<b>THIN TYPE NYLON INSERT LOCK NUTS</b>	From No. 6 to 1/2	304
	<b>ACORN (DOME) NUTS</b>	From M4 to M20 and No. 8 to 5/8 From M6 to M16	304 316
	<b>WING NUTS</b>	From M3 to M16 and 3/16 to 5/8 M20 and 3/4	316 304
	<b>WELD NUTS</b>	From M4 to M8	304
	<b>FLAT ROUND WASHERS</b>	From M2 to M48 and No. 2 to 2"	304 and 316
	<b>SPRING WASHERS</b>	From M2 to M36 and No. 2 to 1.1/4	304 and 316
	<b>INTERNAL TOOTH AND EXTERNAL TOOTH LOCK WASHERS</b>	From No. 2 to 5/8 M3 - M16	410 304
	<b>BELLEVILLE WASHERS</b>	From M6 to M20 DIN 2093	304
	<b>CUP WASHERS</b>	From 6GA to 14GA	304
	<b>CRINKLE WASHERS</b>	From M2 to M6	304

## FASTENERS CONTINUED

 <p><b>'E' CLIPS, INTERNAL &amp; EXTERNAL CIRCLIPS</b></p>	Consult	304
 <p><b>HEX SOCKET PRESSURE PLUGS</b></p>	From 1/8 to 1/2 BSPT	316
 <p><b>SPLIT PINS</b></p>	From M1.0 to M10 and 1/16 to 1/4 and 1/16 to 1/4	304 316
 <p><b>HUMP BACK SPLIT PINS</b></p>	HP/A and HP/B	316
 <p><b>GLENLOCH<sup>®</sup> SKEW PROOF ROLLED WAVE SPRING PINS</b></p>	From M1.5 to M6	420
 <p><b>ROLLED SPRING PINS</b></p>	From 1/16 to 1/2	420
 <p><b>SPIRAL COILED SPRING PINS</b></p>	From M1.5 to M12 and 1/16 to 1/2	302
 <p><b>BUTT HINGES</b></p>	From 2" to 4" Correct wood screws included	304
 <p><b>PIANO HINGE</b></p>	32mm (1.1/4) open 1800mm lengths	304
 <p><b>'U' BOLTS 1/4" THREAD SIZE</b></p>	From 1/2 NB to 3" NB Consult for tube sizes  Keepers available	316  316

## FASTENERS CONTINUED

 <p><b>HEXAGON HEAD BOLTS</b></p>	<p>From M6 to M30 and 1/4 to 1" Selected sizes in UNF and BSF threads available on request</p>	<p>304, 316 and SS2343</p>
 <p><b>HEXAGON HEAD SET SCREWS</b></p>	<p>From M4 to M24 and 3/16 to 1" Selected sizes in UNF, BSF and BA threads available on request</p>	<p>304, 316 and SS2343</p>
 <p><b>HEXAGON HEAD COACH SCREWS</b></p>	<p>From M6 to M12</p>	<p>316</p>
 <p><b>CUP HEAD SQUARE NECK BOLTS</b></p>	<p>From 1/4 to 1/2 UNC and M6 to M12</p>	<p>304 316</p>
 <p><b>SOCKET HEAD CAP SCREWS</b></p>	<p>From M2 to M20 and No. 2 to 3/4</p>	<p>304 and 316</p>
 <p><b>COUNTERSUNK SOCKET SCREWS</b></p>	<p>From M3 to M16 and No. 6 to 3/8</p>	<p>304 and 316 304</p>
 <p><b>BUTTON HEAD SOCKET SCREWS</b></p>	<p>From M3 to M10 and No. 6 to 3/8</p>	<p>304</p>
 <p><b>SOCKET HEAD SET SCREWS (GRUB)</b></p>	<p>From M3 to M12 and No. 2 to 1/2</p>	<p>304 and 316</p>
 <p><b>POST BUTTON HEAD SOCKET SCREWS (SECURITY SCREWS)</b></p>	<p>From M4 to M10 Consult for Post CSK</p>	<p>304</p>
 <p><b>ENGINEERS STUDS</b></p>	<p>From M10 to M16 and 3/8 to 5/8</p>	<p>316</p>
 <p><b>ALLTHREAD</b></p>	<p>From M3 to M36 in 1M lengths and 3/16 to 1.1/2 in 3ft lengths</p>	<p>304 and 316</p>
 <p><b>FLAT HEAD NAILS (ANNULAR RINGS)</b></p>	<p>From 2.0mm to 4.0mm</p>	<p>304</p>
<p><b>CHROME MOLYBDENUM STEEL HEXAGON SOCKET KEYS</b></p>	<p>From M2 to M17 and 1/16 to 5/8 (Supply can also be chrome vanadium)</p>	<p>—</p>

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

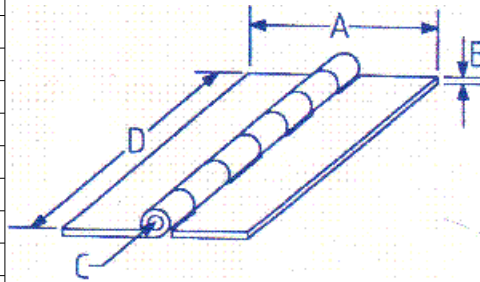
Fax: (02) 9688 4645

Email: sales@msstainless.com.au

M & S Stainless Supplies

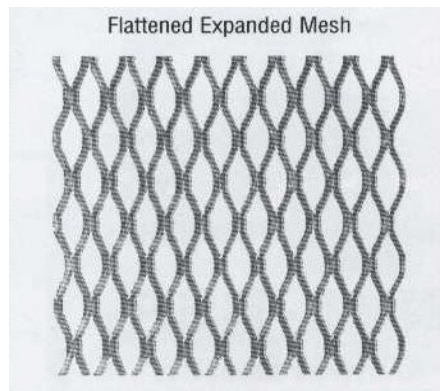
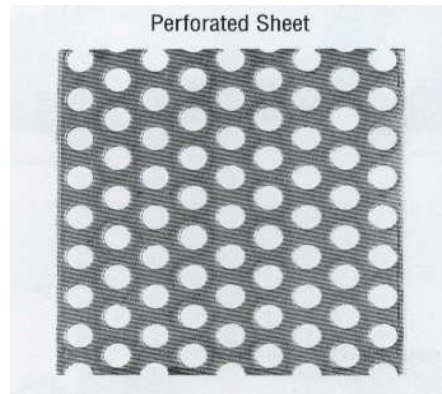
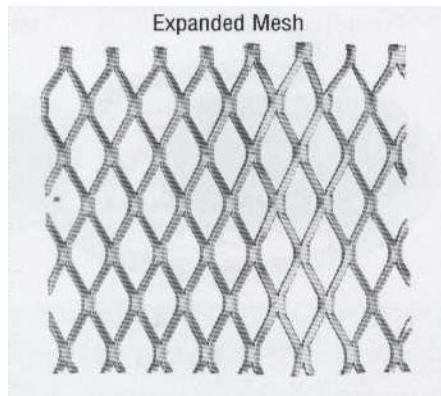
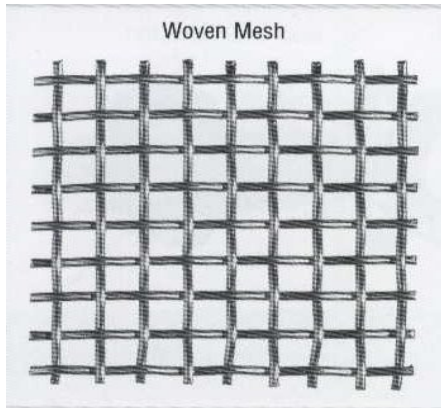
## HINGES (304 2B)

Material Thickness (mm)	Size (mm) open flat	Pin Diameter (mm)	1800 Long	2400 Long
0.6	20	1.6	N/A	YES
0.6	28	1.6	N/A	YES
0.9	25	3.15	YES	YES
0.9	32	3.15	YES	YES
0.9	38	3.15	YES	YES
0.9	50	3.15	YES	YES
1.2	25	3.15	YES	YES
1.2	32	3.15	YES	YES
1.2	38	3.15	YES	YES
1.2	50	3.15	YES	YES
1.5	38	5.0	YES	YES
1.5	50	5.0	YES	YES
1.5	57	5.0	YES	YES
1.5	64	5.0	YES	YES
1.5	76	5.0	YES	YES
1.5	100	5.0	YES	YES
2	50	6.35	YES	YES
2	76	6.35	YES	YES
2	100	6.35	YES	YES
2	150	6.35	YES	YES
3	76	8.0	YES	N/A
3	100	8.0	YES	N/A
3	150	8.0	YES	N/A



A	B	C	D
Size - Open Flat	Material Thickness	Pin Diameter	Length

## MESH



**Sizes may vary from silk to cyclone mesh type.**

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

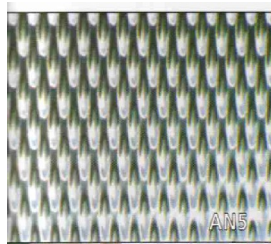
Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## Sheet

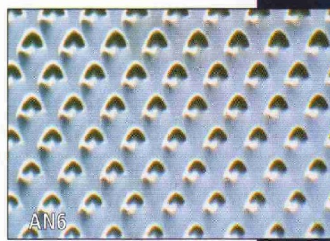
Page under constuction



# PATTERN SHEET



**AN5**  
 Thickness: 0.6 & 1.2 mm  
 Sheet Size: 2438x1250 mm



**AN6**  
 Thickness: 0.6 & 1.2 mm  
 Sheet Size: 2438x1250 mm



**DECO1**  
 Thickness: 0.6 mm  
 Sheet Size: 2438x1250 mm



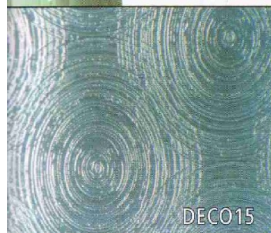
**DECO4**  
 Thickness: 0.6 mm  
 Sheet Size: 2438x1250 mm



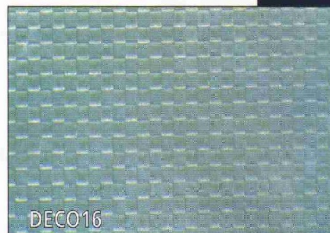
**DECO6**  
 Thickness: 0.6 mm  
 Sheet Size: 2438x1250 mm



**DECO11**  
 Thickness: 0.6 mm  
 Sheet Size: 2438x1250 mm



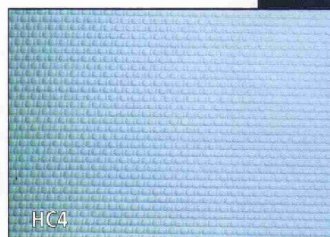
**DECO15**  
 Thickness: 0.6 mm  
 Sheet Size: 2438x1250 mm



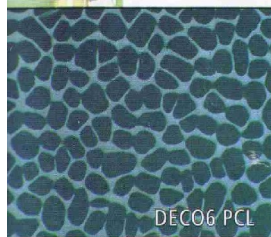
**DECO16**  
 Thickness: 0.6 & 1.2 mm  
 Sheet Size: 2438x1250 mm  
 3000x1250 mm (1.2 mm only)



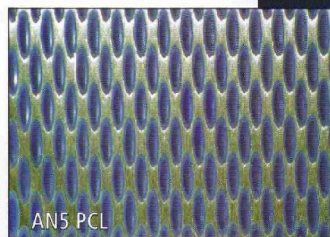
**DECO17**  
 Thickness: 1.2 mm  
 Sheet Size: 2438x1250 mm  
 & 3000x1250 mm



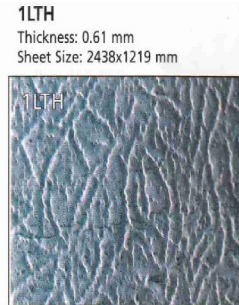
**HC4 Linen**  
 Thickness: 1.2 mm  
 Sheet Size: 2438x1250 mm



**DECO6 PCL**  
 Powder coated thence  
 finished  
 Thickness: 0.6 mm  
 Sheet Size: 2438x1220 mm



**AN5 PCL (reversed)**  
 Powder coated thence  
 finished  
 Thickness: 0.6 & 1.2 mm  
 Sheet Size: 2438x1250 mm



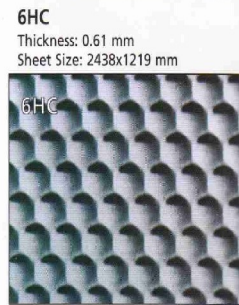
**1LTH**  
 Thickness: 0.61 mm  
 Sheet Size: 2438x1219 mm



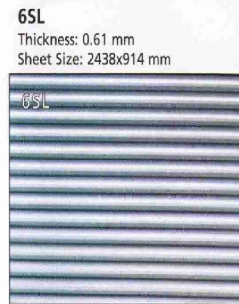
**2WL**  
 Thickness: 0.61 mm  
 Sheet Size: 2438x914 mm



**3ND**  
 Thickness: 0.61 mm  
 Sheet Size: 2438x914 mm



**6HC**  
 Thickness: 0.61 mm  
 Sheet Size: 2438x1219 mm



**6SL**  
 Thickness: 0.61 mm  
 Sheet Size: 2438x914 mm

All sheets 304 grade stainless steel

## BALLISTRAD EXAMPLES



M & S Stainless Supplies

Contact Sales if the item you want is not shown.  
Ph: (02) 9896 1799  
Fax: (02) 9688 4645  
Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)



M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)



Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

M & S Stainless Supplies



M & S Stainless Supplies

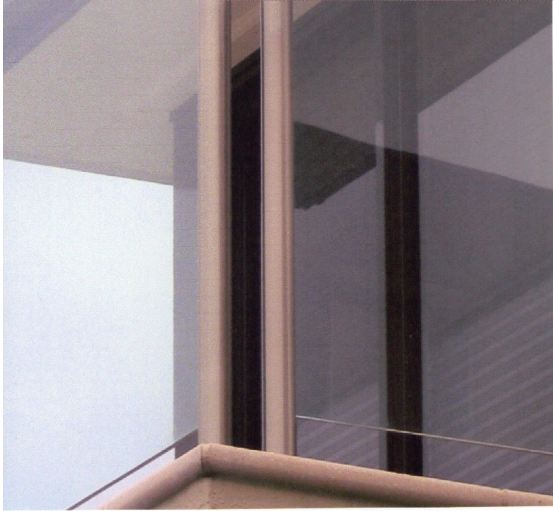
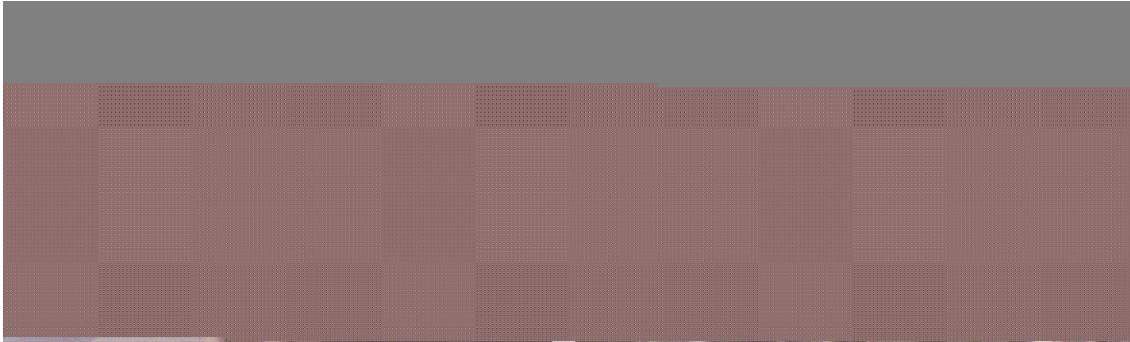
Contact Sales if the item you want is not shown.  
Ph: (02) 9896 1799  
Fax: (02) 9688 4645  
Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)



M & S Stainless Supplies

Contact Sales if the item you want is not shown.  
Ph: (02) 9896 1799  
Fax: (02) 9688 4645  
Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)







M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)





## STAIRWAY TERMINATIONS



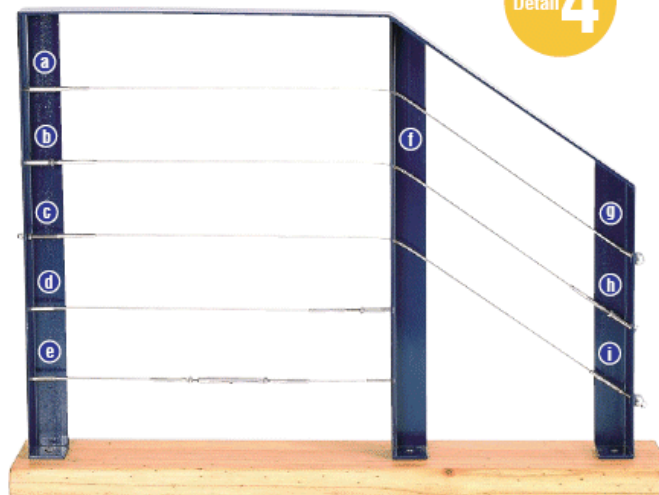
- a** Internal Threaded Terminal + Button Cap Screw
- b** Threaded Terminal + Hex Tensioner



- c** Threaded Terminal + Dome Nut
- d** Button Head Terminal



- e** Button Head Terminal



- f** Detail of wire passing through mid section of handrail assembly

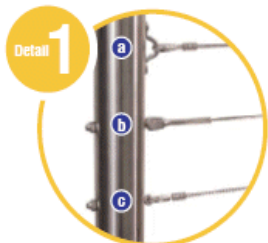


- g** Button Head Terminal + Round Ball
- h** Threaded Terminal + Tensioner + Bevelled Washer



- f** Threaded Terminal + Round Ball + Dome Nut

## BALUSTRADING TERMINATIONS



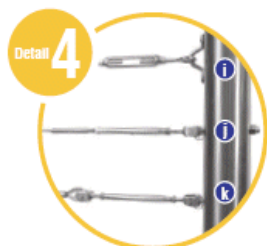
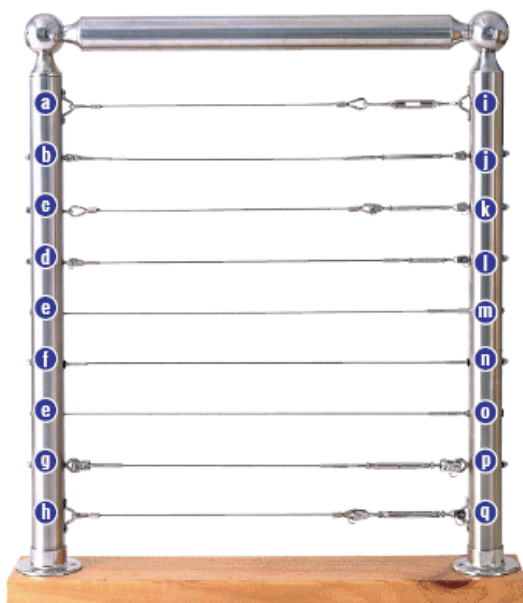
- a** Saddle + Thimble + Ferrule
- b** Eye Screw + Fork Terminal Swage
- c** Eye Screw + Thimble + Ferrule



- d** Eye Screw + Mini Fork Terminal
- e** Button Head Swage
- f** Threaded Terminal + Nylon Bush



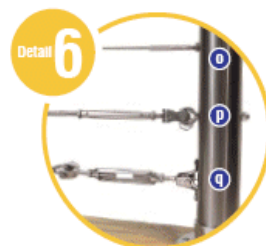
- g** Eye Bolt + Fork Terminal Toggle
- h** Saddle + Thimble + Ferrule



- i** Saddle + Turnbuckle + Thimble + Ferrule
- j** Eye Screw + Rigging Screw (J+S) 5mm
- k** Eye Screw + Rigging Screw (J+J) 5mm + Thimble + Ferrule



- l** Eye Screw + Mini Rigging Screw (J+S) 5mm
- m** Internal Threaded Terminal + Button Cap Screw
- n** Threaded Terminal + Nylon Bush



- o** Threaded Terminal + Tensioner
- p** Eye Bolt + Rigging Screw (T+S) 6mm
- q** Saddle + Turnbuckle (J+J) + Thimble + Ferrule

## WIRE ROPE

### WIRE ROPE 1X19 CONSTRUCTION AISI 316 (MARINE GRADE)

- Smooth finish wire, high tensile strength, limited flexibility and stretch
- Suits applications where wire will not be subject to bending stresses
- Use with standing rigging, mast stays, swage fittings in balustrading

Code	Wire D	B/S	305M Reel	1000M Reel	Cut Lgths	Wgt/Reel (305M)
WR1191.0	1.0	81	Yes	-	Yes	1.6Kg
WR1191.2	1.2	126	Yes	-	Yes	2.5Kg
WR1191.6	1.6	182	Yes	-	Yes	4.0Kg
WR1192.0	2.0	323	Yes	-	Yes	6.2Kg
WR1192.5	2.5	504	Yes	-	Yes	9.7Kg
WR1193.2	3.2	848	Yes	Yes	Yes	15.9Kg
WR1194.0	4.0	1294	Yes	-	Yes	24.9Kg
WR1195.0	5.0	2019	Yes	-	Yes	38.9Kg
WR1196.0	6.0	2910	Yes	-	Yes	56.0Kg
WR1198.0	8.0	5044	Yes	-	Yes	97.0Kg
WR11910	10.0	7070	Yes	-	Yes	151.0Kg



### WIRE ROPE 7X7 CONSTRUCTION AISI 316 (MARINE GRADE)

- Common semi-flexible wire suited for balustrading and general rigging applications
- Can be used with swage fittings or wire rope ferrules

Code	Wire D	B/S	305M Reel	1000M Reel	Cut Lgths	Wgt/Reel (305M)
WR77.6	0.6	20.7	Yes	-	Yes	0.5Kg
WR77.8	0.8	35.4	Yes	-	Yes	0.8Kg
WR771.0	1.0	52.5	Yes	-	Yes	1.3Kg
WR771.2	1.2	79.5	Yes	-	Yes	1.9Kg
WR771.6	1.6	124.0	Yes	Yes	Yes	2.9Kg
WR772.0	2.0	221.0	Yes	-	Yes	5.2Kg
WR772.5	2.5	345.0	Yes	-	Yes	8.1Kg
WR773.0	3.0	498.0	Yes	-	Yes	11.6Kg
WR773.2	3.2	710.0	Yes	Yes	Yes	13.1Kg
WR774.0	4.0	884.0	Yes	Yes	Yes	20.5Kg
WR775.0	5.0	1381.0	Yes	Yes	Yes	32.1Kg
WR776.0	6.0	1989.0	Yes	-	Yes	46.2Kg
WR778.0	8.0	3537.0	Yes	-	Yes	82.0Kg
WR7710	10.0	5517.0	Yes	-	Yes	129.0Kg
WR7712	12.0	7948.0	Yes	-	Yes	184.5Kg



- Quality Korean made wire rope products
- Mill + Test Reports available on request
- Alternate sizes and lengths available on request

## WIRE ROPE



### WIRE ROPE 7X7 CONSTRUCTION AISI 304

- Semi-flexible wire suitable for internal use away from salt water and acidic environments

Code	Wire Ø	B/S	305M Reel	1000M Reel	Cut Lgths	Wgt/Reel (305M)
WR304771.6	1.6	139	Yes	Yes	Yes	2.9Kg
WR304773.2	3.2	798	Yes	Yes	Yes	13.1Kg
WR304774	4.0	999	Yes	-	Yes	20.5Kg



### WIRE ROPE 7X19 CONSTRUCTION AISI 316 (MARINE GRADE)

- Highly flexible wire, suitable for running rigging, control cables, cranes and winches
- Easiest wire to hand swage, also suitable for balustrading

Code	Wire Ø	B/S	305M Reel	1000M Reel	Cut Lgths	Wgt/Reel (305M)
WR7191.6	1.6	118	Yes	-	Yes	2.9Kg
WR7192.0	2.0	204	Yes	-	Yes	5.0Kg
WR7192.5	2.5	319	Yes	-	Yes	7.9Kg
WR7193.2	3.2	710	Yes	Yes	Yes	12.8Kg
WR7194.0	4.0	817	Yes	Yes	Yes	20.1Kg
WR7195.0	5.0	1276	Yes	-	Yes	31.3Kg
WR7196.0	6.0	1837	Yes	-	Yes	45.1Kg
WR7198.0	8.0	3263	Yes	-	Yes	80.1Kg
WR71910	10.0	5106	Yes	-	Yes	125.1Kg
WR71912	12.0	7350	Yes	-	Yes	180.1Kg



### WIRE ROPE 7X7 CONSTR. PVC COATED AISI 316 (MARINE GRADE)

- PVC coated wire (white finish only)
- Suits safety lines, light industry and architectural applications

Code	Wire Ø	Total Ø	B/S	305M Reel	Cut Lgths	Wgt/Reel
WRPVC.8-2.4	0.8	2.4	35.4	Yes	Yes	0.8Kg
WRPVC1.5-3.5	1.5	3.5	124.0	Yes	Yes	2.9Kg
WRPVC2.0-4.0	2.0	4.0	221.0	Yes	Yes	5.1Kg
WRPVC2.5-4.5	2.5	4.5	345.0	Yes	Yes	8.2Kg
WRPVC3.2-5.2	3.2	5.2	710.0	Yes	Yes	13.3Kg
WRPVC4.0-6.0	4.0	6.0	884.0	Yes	Yes	20.6Kg
WRPVC5.0-7.0	5.0	7.0	1381.0	Yes	Yes	32.2Kg



### WIRE ROPE 6X7 FIBRE CORE GALVANISED GRADE 1570

- Semi flexible fibre core dry lube general purpose wire rope

Code	Wire Ø	B/S	100M Reel	500M Reel	1000M Reel	Cut Lgths	Wgt/Reel (1000M)
WR671.2	1.2	95	-	-	Yes	Yes	10.0Kg
WR671.6	1.6	150	-	-	Yes	Yes	12.5Kg
WR672	2.0	230	Yes	Yes	Yes	Yes	15.0Kg
WR672.5	2.5	360	Yes	Yes	Yes	Yes	23.0Kg



### WIRE ROPE 6X7 FIBRE CORE GALVANISED PVC COATED GRADE 1570

- Semi flexible fibre core dry lube wire rope
- PVC coated in blue and red colours

Code	WIRE Ø	O.D.	B/S	Colour	150M Reel	300M Reel	Cut Lgths
WRPVC-G-2-B	2.0	3.0	230	Blue	Yes	Yes	Yes
WRPVC-G-2-R	2.0	3.0	230	Red	Yes	Yes	Yes
WRPVC-G-3-B	3.0	5.0	405	Blue	Yes	Yes	Yes
WRPVC-G-3-R	3.0	5.0	405	Red	Yes	Yes	Yes

## GALVANISED TIE WIRE

### WIRE ROPE 6X19 FIBRE CORE GALVANISED GRADE 1570

- Flexible fibre core wire
- Suits marine, agriculture and general purpose applications

Code	Wire Ø	B/S	100M Reel	500M Reel	1000M Reel	Cut Lgths	Wgt/Reel (1000M)
WRG193.0	3.0	343	Yes	Yes	Yes	Yes	31.20Kg
WRG193.2	3.2	548	Yes	Yes	Yes	Yes	35.50Kg
WRG194.0	4.0	755	Yes	Yes	Yes	Yes	55.20Kg
WRG195.0	5.0	1176	Yes	Yes	Yes	Yes	86.50Kg
WRG196.0	6.0	1725	Yes	Yes	Yes	Yes	125.00Kg
WRG198.0	8.0	3028	Yes	Yes	Yes	Yes	221.00Kg
WRG1910	10.0	4723	Yes	-	Yes	Yes	354.00Kg



### WIRE ROPE 6X24 FIBRE CORE GALVANISED GRADE 1570

- Flexible fibre core dry lube wire rope for general purpose applications

Code	Wire Ø	B/S	1000M Reel	Cut Lgths	Wgt/Reel (1000M)
WRG2410	10.0	4312	Yes	Yes	318.0Kg
WRG2412	12.0	6203	Yes	Yes	458.0Kg



### TIE WIRE AISI 304

- Single strand locking wire
- Outdoor Tie wire, oyster farms, safety wire etc

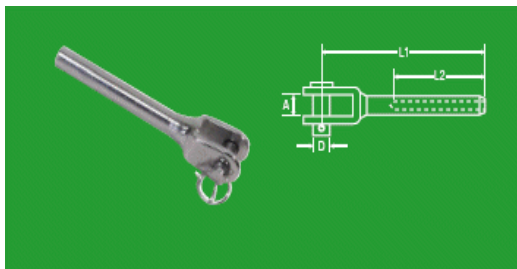
Code	Wire Ø	Length	Reel
TW-0.5	0.50	642m	1Kg
TW-0.75	0.75	285m	1Kg
TW-0.90	0.90	198m	1Kg
TW-1.10	1.10	132m	1Kg



Wire rope looks great with handrail setups for modern decks + fencing applications

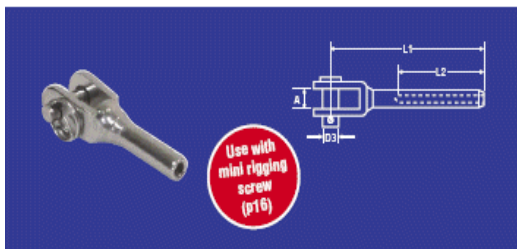


## STAINLESS STEEL HARDWARE



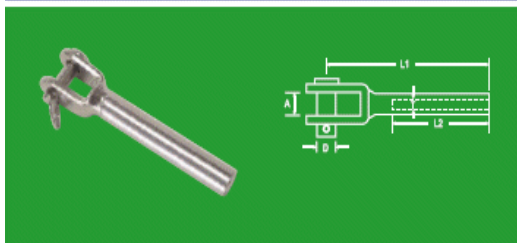
### FORK TERMINAL SWAGE AISI 316

Code	Rope Ø	D	L1	L2	A	TDL	RWL	Wgt
FT-025	2.5	5	55	24	7.0	700	185	22g
FT-032	3.2	5	65	32	8.5	1250	313	22g
FT-04	4.0	6	77	40	9.5	1800	450	30g
FT-05	5.0	8	88	57	10.0	2650	663	68g
FT-06	6.0	12	106	63	14.0	4000	1000	112g
FT-08	8.0	14	145	85	15.0	7250	1813	292g
FT-10	10.0	14	149	89	22.0	8400	2100	351g



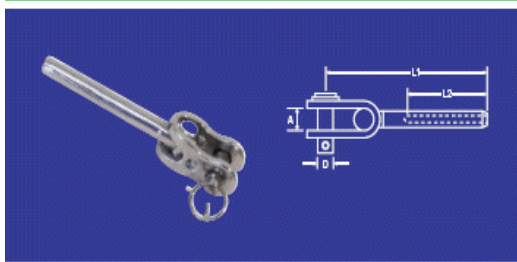
### FORK TERMINAL SWAGE MINI TYPE AISI 316

Code	Rope Ø	L1	L2	A	D3	TDL	RWL	Wgt
MFT-032	3.2	48	24	7.5	5	1000	250	18g



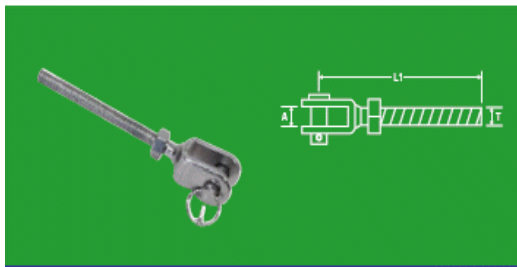
### INTERNAL THREADED FORK TERMINAL AISI 316

Code	T	D	L1	L2	A	Wgt
ITTF-6	M6	5	65	38	8.5	30g



### FORK TERMINAL TOGGLE SWAGE AISI 316

Code	Rope Ø	D	L1	L2	A	TDL	RWL	Wgt
FT-T-032	3.2	6	75	38	7	670	168	30g
FT-T-04	4.0	8	89	45	10	1400	350	58g
FT-T-05	5.0	9	104	51	12	1700	425	102g
FT-T-06	6.0	12	127	64	13	4000	1000	172g
FT-T-08	8.0	16	163	76	17	7000	1750	504g
FT-T-10	10.0	18	184	-	20	7500	1875	-



### FORK TERMINAL SCREW W/LOCK NUT AISI 316

\*Available in L/H Thread also

Code	T	A	L1	TDL	RWL	Wgt
FT-S-05"	M5	8	65	750	188	16g
FT-S-06"	M6	10	73	1000	250	28g
FT-S-08"	M8	10	84	2200	550	56g
FT-S-10"	M10	12	102	3000	750	98g
FT-S-12"	M12	14	117	5000	1250	172g



## TERMINAL REPLACEMENTS

### FORK TERMINAL TOGGLE SCREW W/LOCK NUT AISI 316

Code	T	A	L1	TDL	RWL	Wgt
TS-06	M6	9.5	83	1000	250	36g
TS-08	M8	10.5	94	2200	550	76g
TS-10	M10	13.0	114	3000	750	142g
TS-12-1	M12	13.0	143	5000	1250	210g
TS-12-2	M12	13.0	225	5000	1250	322g
TS-16-1	M16	18.5	175	8000	2000	562g
TS-16-2	M16	16.5	285	8000	2000	661g



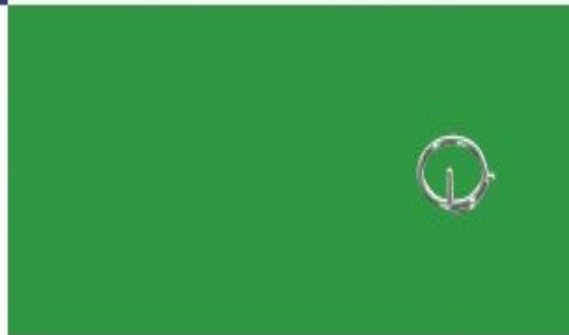
### CLEVIS PIN REPLACEMENT AISI 316

Code	D	L	D2	Suit R/Screw	Wgt
CLEWS-1	5.0	19	8.0	M5	3g
CLEWS-2	6.0	21	9.0	M6	5g
CLEWS-3	9.5	29	13.5	M10	16g



### RETAINING CLIP REPLACEMENT AISI 316

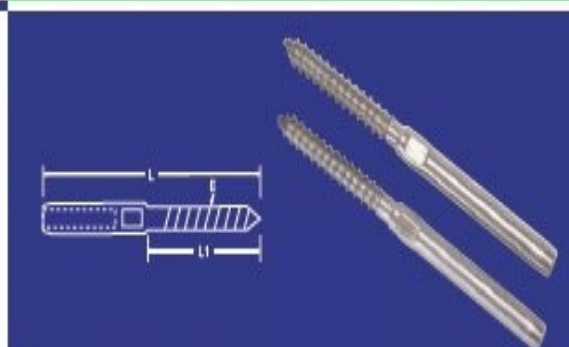
Code	Ring Ø	Suit R/Screw
RC-1	11.0	M5
RC-2	17.0	M6
RC-3	32.0	M16



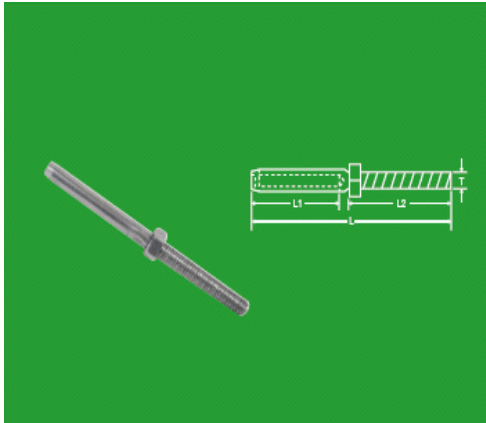
### LAG SCREW / SWAGE TERMINAL AISI 316

- Sleek, easy to use and economical balustrade terminals
- When ordering, each length must have a L/Hand & R/Hand terminal

Code	Wire Ø	L	L1	E	Wgt
LS-TT-030GL	3.2	90	42	6/LHT	15g
LS-TT-030GR	3.2	90	42	6/RHT	15g



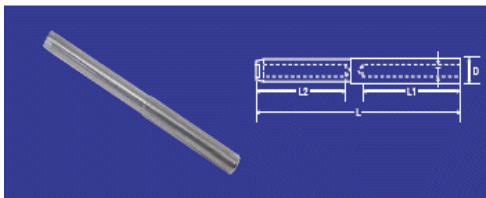
## STAINLESS STEEL HARDWARE



### THREADED TERMINAL SWAGE STUD W/LOCK NUT AISI 316

\*Also available in L/H Thread

Code	Rope Ø	T	L	L2	L1	Wgt
TT-052.5	2.5	M5	72	22	40	10g
TT-062.5	2.5	M6	100	46	38	22g
TT-0305*	3.2	M5	90	39	42	14g
TT-0306*	3.2	M6	100	39	48	18g
TT-0406*	4.0	M6	100	39	48	26g
TT-0508	5.0	M8	117	45	57	34g
TT-0610	6.0	M10	130	51	63	130g
TT-0612	6.0	M12	162	64	80	110g
TT-0612-2	6.0	M12	235	135	63	186g
TT-0812	8.0	M12	165	71	64	178g
TT-0816	8.0	M16	225	92	90	292g
TT-1016	10.0	M16	225	92	90	319g
TT-1216	12.0	M16	225	92	90	319g



### INTERNAL THREADED TERMINAL SWAGE STUD AISI 316

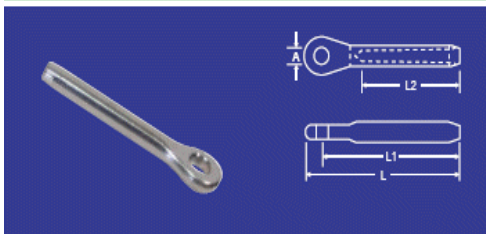
\* Refer to fasteners section for cap screw sizes (see p37)

Code	Rope Ø	T	L	L1	L2	D	Wgt
ITT-53	3.2	M5	90	45	45	7.5	18g
ITT-64	4.0	M6	95	46	49	8.0	22g
ITT-85	5.0	M8	120	60	60	10.0	42g



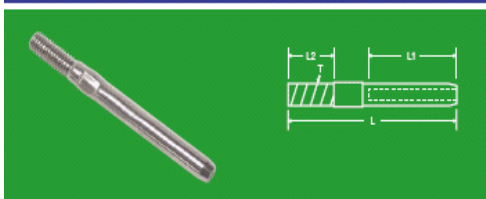
### BUTTON HEAD TERMINAL SWAGE AISI 316

Code	Rope Ø	L	L1	D	TDL	RWL	Wgt
BHT-032	3.2	38	35	9.5	1000	250	8g
BHT-04	4.0	54	50	12.5	1900	475	14g



### EYE TERMINAL SWAGE AISI 316

Code	Rope Ø	L1	L2	A	L	TDL	RWL	Wgt
ET-2.5	2.5	49	32	6.0	55	850	213	8g
ET-032	3.2	55	40	6.5	62	1000	250	12g
ET-04	4.0	61	45	8.0	77	1350	338	20g
ET-05	5.0	76	51	10.0	87	2500	625	37g
ET-06	6.0	90	64	12.5	106	4500	1125	95g
ET-08	8.0	118	83	14.5	133	6700	1675	169g



### MINI THREADED TERMINAL SWAGE STUD AISI 316

\* Use for stairway angles with internal threaded ball (see product below)

Code	Rope Ø	T	L	L1	L2	Wgt
TTB-032	3.2	M6	67	38	16	11g



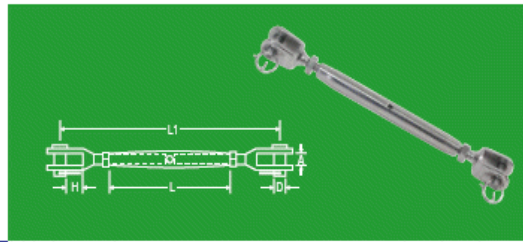
### INTERNAL THREADED BALL AISI 316

Code	T	D	L	Wgt
TTB-M6	M6	16	15	14g

## RIGGING SCREW AND TURNBUCKLES

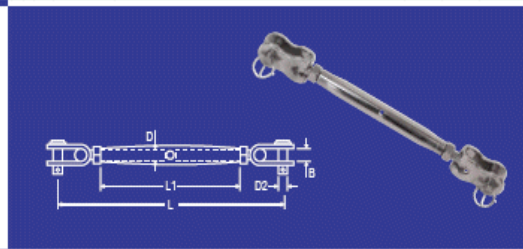
### RIGGING SCREW JAW + JAW W/LOCK NUTS AISI 316

Code	T	L	L1	A	D	H	TDL	RWL	Wgt
RS-JJ-05	M5	80	130	8.5	5	10	750	188	54g
RS-JJ-06	M6	95	150	9.5	6	10	1400	350	84g
RS-JJ-08	M8	105	180	10.5	8	11	2200	550	162g
RS-JJ-10	M10	125	220	12.5	10	14	3450	863	282g
RS-JJ-12	M12	150	270	15.0	12	21	5000	1250	504g
RS-JJ-16	M16	190	300	23.5	14	26	8000	2000	965g



### RIGGING SCREW TOGGLE+ TOGGLE W/LOCK NUTS AISI 316

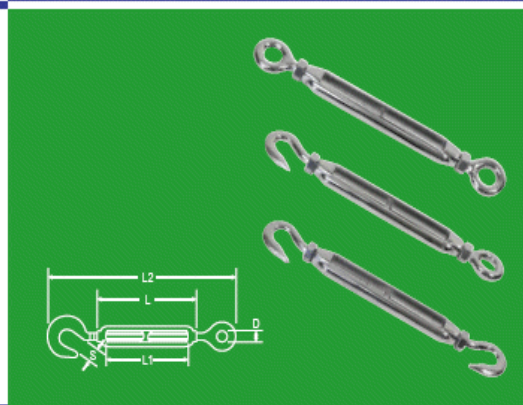
Code	D	D2	B	L	L1	TDL	RWL	Wgt
RS-TT-06	M6	6	10	146	90	1100	275	98g
RS-TT-08	M8	8	10	180	105	1850	463	210g
RS-TT-10	M10	9	12	212	125	3000	750	372g
RS-TT-12	M12	12	14	252	150	3750	938	576g



### TURNBUCKLE - OPEN BODY W/LOCK NUTS AISI 316

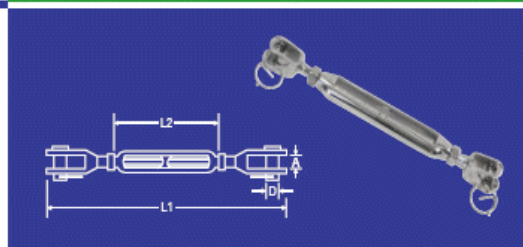
- When ordering please specify size and configuration (listed next line)
- TB-EE (Eye + Eye), TB-HE (Hook + Eye), TB-HH (Hook + Hook)

Code	T	L	L1	L2	D	S	TDL	RWL	Wgt
TB-04	M4	55	47	98	8	9	475	119	26g
TB-05	M5	70	52	120	8	9	680	170	46g
TB-06	M6	90	66	160	10	10	1500	375	80g
TB-08	M8	120	94	200	14	11	2300	575	165g
TB-10	M10	150	120	240	16	12	3100	775	304g
TB-12	M12	200	168	300	18	14	4400	1100	560g
TB-16	M16	250	210	390	26	16	8100	2025	1200g
TB-20	M20	300	260	510		18	11000	2750	



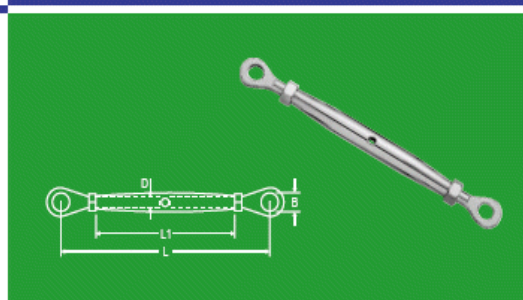
### TURNBUCKLE OPEN BODY JAW + JAW W/LOCK NUTS AISI 316

Code	T	L1	L2	A	D	TDL	RWL	Wgt
TB-JJ-05	M5	125	70	8	5	750	188	52g
TB-JJ-06	M6	145	90	10	6	1400	350	96g
TB-JJ-08	M8	180	120	11	8	2200	550	195g
TB-JJ-10	M10	220	150	14	10	3450	863	330g
TB-JJ-12	M12	320	198	15	12	5000	1250	630g

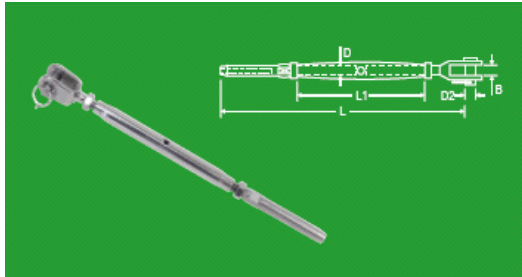


### RIGGING SCREW EYE + EYE W/LOCK NUTS AISI 316

Code	D	B	L	L1	TDL	RWL	Wgt
RS-EE-05	M5	5.5	128	80	750	188	32g
RS-EE-06	M6	6.5	142	90	1000	250	78g
RS-EE-08	M8	8.5	155	105	2200	550	124g

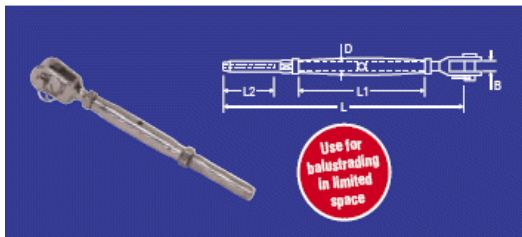


## STAINLESS STEEL HARDWARE



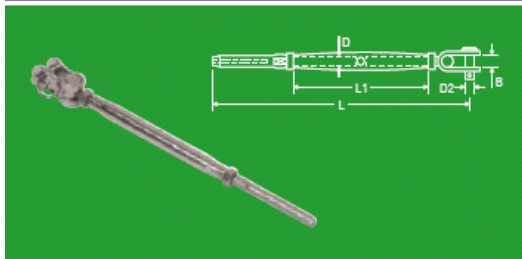
### RIGGING SCREW JAW + SWAGE W/LOCK NUTS AISI 316

Code	Rope Ø	D	L1	L	D2	B	TDL	RWL	Wgt
RS-JS-52.5	2.5	M5	80	155	5.0	8.5	750	150	52g
RS-JS-53	3.2	M5	80	155	5.0	8.5	750	150	52g
RS-JS-63	3.2	M6	95	175	6.0	9.5	1000	250	76g
RS-JS-64	4.0	M6	95	175	6.0	9.5	1000	250	80g
RS-JS-85	5.0	M8	105	205	8.0	10.5	1400	350	146g
RS-JS-106	6.0	M10	125	230	10.0	12.5	2200	550	278g



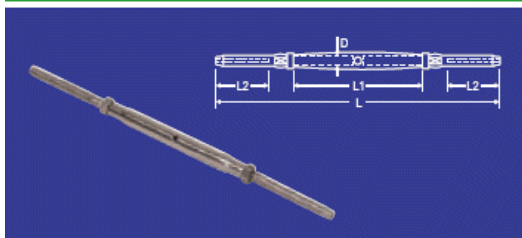
### RIGGING SCREW JAW + SWAGE MINI TYPE AISI 316

Code	Rope Ø	D	L	L1	B	L2	TDL	RWL	Wgt
MRS-JS-53	3.2	M5	105	45	8.5	25	600	120	36g



### RIGGING SCREW TOGGLE + SWAGE W/LOCK NUTS AISI 316

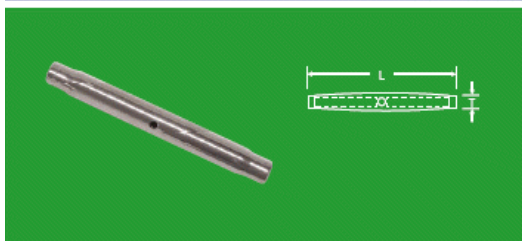
Code	Rope Ø	D	L	L1	D2	B	TDL	RWL	Wgt
RS-TS-63	3.2	M6	160	90	6	10	940	235	86g
RS-TS-64	4.0	M6	160	90	6	10	1400	350	82g
RS-TS-85	5.0	M8	200	112	8	10	1800	450	100g
RS-TS-106	6.0	M10	225	125	10	12	2500	645	290g
RS-TS-128	8.0	M12	285	150	12	14	3700	925	528g
RS-TS-1610	10.0	M16	360	190	15	17	6900	1725	1174g
RS-TS-1612	12.0	M16	360	190	15	17	6900	1725	1175g



### RIGGING SCREW SWAGE + SWAGE W/LOCK NUTS AISI 316

• In-line tensioner for long balustrading runs

Code	Rope Ø	D	L	L1	L2	TDL	RWL	Wgt
RS-SS-53	3.2	M5	188	80	37	600	150	68g
RS-SS-63	3.2	M6	198	95	37	1000	250	70g



### RIGGING SCREW BODY ONLY AISI 316

Code	T	L	Wgt
RS-BODY-M5	M5	80	16g
RS-BODY-M6	M6	95	28g
RS-BODY-M8	M8	105	68g
RS-BODY-M10	M10	125	82g

## BALUSTRADING MISC

### WIRE ROPE SHELF SUPPORT CLIPS AISI 316

- Clips to help create elaborate wire rope shelving

Code	D	H	I	Wire Rope Ø	Wgt
SC-2.0	10.0	8.0	2.5	0.6 - 2.5mm	4g
SC-4.0	15.0	11.5	4.6	2.5 - 4.0mm	13g



### QUICK CONNECT FITTING ALUMINIUM

- One way internal valve to hold wire rope for balustrading and trellis work

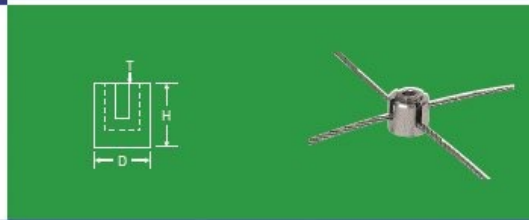
Code	Rope Ø
QCON	3.2



### CROSS CONNECTOR 90 DEG. AISI 304

- 90° clamp for drop wires and trellis work

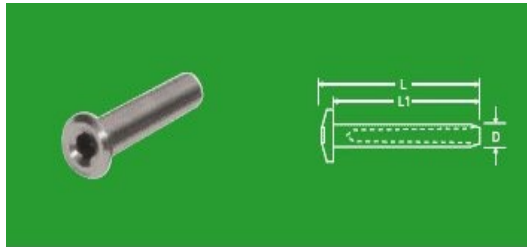
Code	Rope Ø	D	H	T	Wgt
CROSS-03	3.2	20	19	M12	27g
CROSS-04	4.0	20	19	M12	27g



Modern and stylish results can be achieved by mixing materials



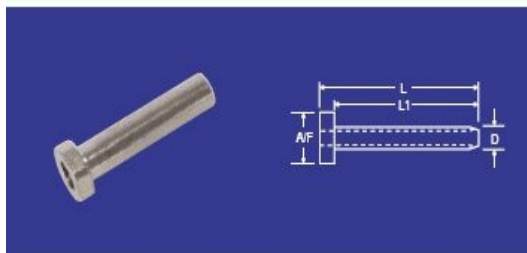
## STAINLESS STEEL HARDWARE



### ALLEN KEY HEAD TENSIONER AISI 304

- Suitable for use with threaded terminals (see p16) in either stairway or horizontal balustrading applications
- Internal thread
- Use with angled washers to complete a staircase

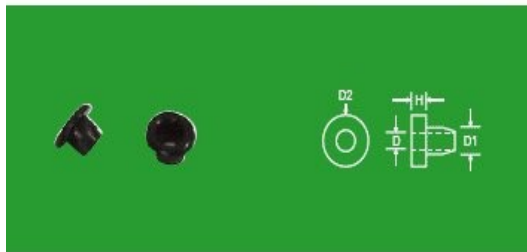
Code	Thread	L	L1	D	Wgt
HTEN-6	M6	42	40	8	9g



### HEX HEAD TENSIONER AISI 304

- Suitable for use with threaded terminals (see p16) in either stairway or horizontal balustrading applications
- Internal thread
- Use with angled washers to complete a staircase

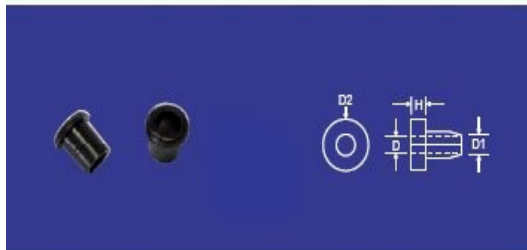
Code	Thread	L	L1	D	A/F	Wgt
TEN-6	M6	39	35	8	12	8g
TEN-8	M8	39	35	10	12	9g



### NYLON GROMMET - BLACK ONLY

- Nylon bush for protecting wire from cutting on sharp objects, push-fit into posts

Code	D2	H	D1	D	Drill Hole D	Wire Rope D
NYLON	12.5	2.0	8.8	6.0	8.0	3.2 - 5.0mm



### NYLON GROMMET SPLIT TYPE - BLACK ONLY

- Nylon bush for protecting wire from cutting on sharp objects, push-fit into posts
- Install after balustrading is installed

Code	D2	H	D1	D	Drill Hole D	Wire Rope D
NYLONBS	12.5	2.5	9.0	6.5	11/32"	3.2 - 5.0mm



### BEVELLED WASHER CHROME PLATED BRASS

- 35° angled washer for use with swage fittings and tensioners (stairway + balustrading)

Code	D	I	A	L	Wgt
BEV-WASH-1	11	6.3	35°	10	3g
BEV-WASH-2	11	8.3	35°	10	2g



### ROUND BALL AISI 316

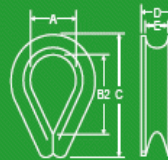
- Internal hole for use with swage fittings and tensioners (stairway + balustrading)

Code	D	I	F	Wgt
BALL	20	6.3	11.5	27g
BALL-2	15	5.4	9.5	12g

## THIMBLES AND ROPE GRIPS

### WIRE ROPE THIMBLE AISI 304

Code	Rope Ø	A	B2	C	D	E	Sold
TH-02	2.0	7	12	21	5.0	3.2	Each
TH-03	3.2	9	14	23	6.0	4.0	Each
TH-04	4.0	11	16	27	7.0	5.0	Each
TH-05	5.0	14	21	21	8.0	6.0	Each
TH-06	6.0	16	26	39	9.5	7.0	Each
TH-08	8.0	21	35	50	12.0	9.0	Each
TH-10	10.0	26	42	59	14.0	11.0	Each
TH-12	12.0	31	48	70	17.5	14.0	Each
TH-14	14.0	34	55	76	20.0	16.0	Each
TH-16	16.0	39	63	85	21.0	17.0	Each
TH-18	18.0	41	68	93	23.0	19.0	Each
TH-20	20.0	45	73	103	26.0	22.0	Each
TH-22	22.0	50	82	112	32.0	24.0	Each



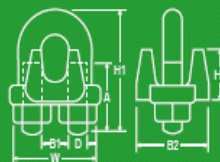
### WIRE ROPE THIMBLE HEAVY DUTY AISI 316

Code	Rope Ø	A	C	Sold
TH-06H	6.0	22.0	54.5	Each
TH-08H	8.0	26.5	62.5	Each
TH-10H	10.0	28.0	72.0	Each
TH-12H	12.0	37.5	84.0	Each
TH-14H	14.0	37.5	84.0	Each
TH-16H	16.0	43.5	106.0	Each
TH-18H	18.0	43.5	106.0	Each
TH-20H	20.0	50.0	125.0	Each
TH-22H	22.0	56.0	137.5	Each
TH-24H	24.0	60.0	145.5	Each
TH-26H	26.0	62.5	153.0	Each



### WIRE ROPE GRIP AISI 316

Code	Rope Ø	D	A	B1	B2	H1	H2	TDL	Wgt
WRG-02	2.0	M3	10	4	14	18	14	400	7g
WRG-03	3.2	M4	12	5	16	24	17	500	10g
WRG-04	4.0	M4	13	6	18	24	19	750	18g
WRG-05	5.0	M6	15	7	20	33	24	1400	26g
WRG-06	6.0	M6	15	8	22	33	28	2450	39g
WRG-08	8.0	M8	20	10	28	40	34	4150	76g
WRG-10	10.0	M10	28	12	35	50	45	7500	152g
WRG-12	12.0	M12	35	14	39	60	51	9000	236g
WRG-16	16.0	M14	45	18	48	75	60	11500	417g
WRG-19	19.0	M14	50	20	53	80	62	11500	450g
WRG-25	25.0	M18	65	29	68	110	86	15000	421g



## STAINLESS STEEL HARDWARE

 <p><b>HAND SWAGES - CREASED</b></p>		 <p><b>MACHINE SWAGES</b></p>		<b>NICKEL PLATED COPPER WIRE ROPE FERRULES (SWAGES)</b> <ul style="list-style-type: none"> <li>For use with hand &amp; hydraulic swaging stainless steel wire rope</li> <li>Not suitable for galvanised wire rope swaging</li> </ul>																																													
				<b>HAND SWAGING - CREASED</b>		<b>MACHINE SWAGING DIN 3093</b>																																											
		<table border="1"> <thead> <tr> <th>Code</th> <th>Rope Ø</th> </tr> </thead> <tbody> <tr><td>FE-NP-01.5</td><td>1.6</td></tr> <tr><td>FE-NP-02.0</td><td>2.0</td></tr> <tr><td>FE-NP-02.5</td><td>2.5</td></tr> <tr><td>FE-NP-03</td><td>3.2</td></tr> <tr><td>FE-NP-04</td><td>4.0</td></tr> <tr><td>FE-NP-05</td><td>5.0</td></tr> <tr><td>FE-NP-06</td><td>6.0</td></tr> </tbody> </table>	Code	Rope Ø	FE-NP-01.5	1.6	FE-NP-02.0	2.0	FE-NP-02.5	2.5	FE-NP-03	3.2	FE-NP-04	4.0	FE-NP-05	5.0	FE-NP-06	6.0			<table border="1"> <thead> <tr> <th>Code</th> <th>Rope Ø</th> </tr> </thead> <tbody> <tr><td>FE-MS-NP-01</td><td>1.0</td></tr> <tr><td>FE-MS-NP-01.5</td><td>1.6</td></tr> <tr><td>FE-MS-NP-02</td><td>2.0</td></tr> <tr><td>FE-MS-NP-02.5</td><td>2.5</td></tr> <tr><td>FE-MS-NP-03</td><td>3.2</td></tr> <tr><td>FE-MS-NP-04</td><td>4.0</td></tr> <tr><td>FE-MS-NP-05</td><td>5.0</td></tr> <tr><td>FE-MS-NP-06</td><td>6.0</td></tr> <tr><td>FE-MS-NP-08</td><td>8.0</td></tr> <tr><td>FE-MS-NP-10</td><td>10.0</td></tr> </tbody> </table>	Code	Rope Ø	FE-MS-NP-01	1.0	FE-MS-NP-01.5	1.6	FE-MS-NP-02	2.0	FE-MS-NP-02.5	2.5	FE-MS-NP-03	3.2	FE-MS-NP-04	4.0	FE-MS-NP-05	5.0	FE-MS-NP-06	6.0	FE-MS-NP-08	8.0	FE-MS-NP-10	10.0						
Code	Rope Ø																																																
FE-NP-01.5	1.6																																																
FE-NP-02.0	2.0																																																
FE-NP-02.5	2.5																																																
FE-NP-03	3.2																																																
FE-NP-04	4.0																																																
FE-NP-05	5.0																																																
FE-NP-06	6.0																																																
Code	Rope Ø																																																
FE-MS-NP-01	1.0																																																
FE-MS-NP-01.5	1.6																																																
FE-MS-NP-02	2.0																																																
FE-MS-NP-02.5	2.5																																																
FE-MS-NP-03	3.2																																																
FE-MS-NP-04	4.0																																																
FE-MS-NP-05	5.0																																																
FE-MS-NP-06	6.0																																																
FE-MS-NP-08	8.0																																																
FE-MS-NP-10	10.0																																																
 <p><b>HAND SWAGES - CREASED</b></p>		 <p><b>MACHINE SWAGES</b></p>		<b>COPPER WIRE ROPE FERRULES (SWAGES)</b> <ul style="list-style-type: none"> <li>Copper finish for use with hand &amp; hydraulic swaging of stainless steel wire rope</li> <li>Not suitable for galvanised wire rope swaging</li> </ul>																																													
				<b>HAND SWAGING - CREASED</b>		<b>MACHINE SWAGING DIN 3093</b>																																											
		<table border="1"> <thead> <tr> <th>Code</th> <th>Rope Ø</th> </tr> </thead> <tbody> <tr><td>FE-02</td><td>2.0</td></tr> <tr><td>FE-02.5</td><td>2.5</td></tr> <tr><td>FE-03</td><td>3.2</td></tr> <tr><td>FE-04</td><td>4.0</td></tr> <tr><td>FE-05</td><td>5.0</td></tr> <tr><td>FE-06</td><td>6.0</td></tr> </tbody> </table>	Code	Rope Ø	FE-02	2.0	FE-02.5	2.5	FE-03	3.2	FE-04	4.0	FE-05	5.0	FE-06	6.0			<table border="1"> <thead> <tr> <th>Code</th> <th>Rope Ø</th> </tr> </thead> <tbody> <tr><td>FE-MS-02</td><td>2.0</td></tr> <tr><td>FE-MS-02.5</td><td>2.5</td></tr> <tr><td>FE-MS-03</td><td>3.2</td></tr> <tr><td>FE-MS-04</td><td>4.0</td></tr> <tr><td>FE-MS-05</td><td>5.0</td></tr> <tr><td>FE-MS-06</td><td>6.0</td></tr> <tr><td>FE-MS-08</td><td>8.0</td></tr> <tr><td>FE-MS-10</td><td>10.0</td></tr> </tbody> </table>	Code	Rope Ø	FE-MS-02	2.0	FE-MS-02.5	2.5	FE-MS-03	3.2	FE-MS-04	4.0	FE-MS-05	5.0	FE-MS-06	6.0	FE-MS-08	8.0	FE-MS-10	10.0												
Code	Rope Ø																																																
FE-02	2.0																																																
FE-02.5	2.5																																																
FE-03	3.2																																																
FE-04	4.0																																																
FE-05	5.0																																																
FE-06	6.0																																																
Code	Rope Ø																																																
FE-MS-02	2.0																																																
FE-MS-02.5	2.5																																																
FE-MS-03	3.2																																																
FE-MS-04	4.0																																																
FE-MS-05	5.0																																																
FE-MS-06	6.0																																																
FE-MS-08	8.0																																																
FE-MS-10	10.0																																																
 <p><b>HAND SWAGES - CREASED</b></p>		 <p><b>MACHINE SWAGES</b></p>		<b>ALUMINIUM WIRE ROPE FERRULES (SWAGES)</b> <ul style="list-style-type: none"> <li>Aluminium sleeves to suit hand &amp; hydraulic swaging of galvanised wire rope</li> <li>Not suitable for swaging stainless steel wire rope</li> </ul>																																													
				<b>HAND SWAGING - CREASED</b>		<b>MACHINE SWAGING DIN 3093</b>																																											
		<table border="1"> <thead> <tr> <th>Code</th> <th>Rope Ø</th> </tr> </thead> <tbody> <tr><td>ALF-H-1.5</td><td>1.6</td></tr> <tr><td>ALF-H-02</td><td>2.0</td></tr> <tr><td>ALF-H-2.5</td><td>2.5</td></tr> <tr><td>ALF-H-3.2</td><td>3.0/3.5</td></tr> <tr><td>ALF-H-04</td><td>4.0</td></tr> <tr><td>ALF-H-05</td><td>5.0</td></tr> <tr><td>ALF-H-06</td><td>6.0</td></tr> </tbody> </table>	Code	Rope Ø	ALF-H-1.5	1.6	ALF-H-02	2.0	ALF-H-2.5	2.5	ALF-H-3.2	3.0/3.5	ALF-H-04	4.0	ALF-H-05	5.0	ALF-H-06	6.0			<table border="1"> <thead> <tr> <th>Code</th> <th>Rope Ø</th> </tr> </thead> <tbody> <tr><td>ALF-01</td><td>1.0</td></tr> <tr><td>ALF-1.5</td><td>1.6</td></tr> <tr><td>ALF-02</td><td>2.0</td></tr> <tr><td>ALF-2.5</td><td>2.5</td></tr> <tr><td>ALF-03</td><td>3.0</td></tr> <tr><td>ALF-3.5</td><td>3.5</td></tr> <tr><td>ALF-04</td><td>4.0</td></tr> <tr><td>ALF-05</td><td>5.0</td></tr> <tr><td>ALF-06</td><td>6.0</td></tr> <tr><td>ALF-08</td><td>8.0</td></tr> <tr><td>ALF-10</td><td>10.0</td></tr> <tr><td>ALF-12</td><td>12.0</td></tr> </tbody> </table>	Code	Rope Ø	ALF-01	1.0	ALF-1.5	1.6	ALF-02	2.0	ALF-2.5	2.5	ALF-03	3.0	ALF-3.5	3.5	ALF-04	4.0	ALF-05	5.0	ALF-06	6.0	ALF-08	8.0	ALF-10	10.0	ALF-12	12.0		
Code	Rope Ø																																																
ALF-H-1.5	1.6																																																
ALF-H-02	2.0																																																
ALF-H-2.5	2.5																																																
ALF-H-3.2	3.0/3.5																																																
ALF-H-04	4.0																																																
ALF-H-05	5.0																																																
ALF-H-06	6.0																																																
Code	Rope Ø																																																
ALF-01	1.0																																																
ALF-1.5	1.6																																																
ALF-02	2.0																																																
ALF-2.5	2.5																																																
ALF-03	3.0																																																
ALF-3.5	3.5																																																
ALF-04	4.0																																																
ALF-05	5.0																																																
ALF-06	6.0																																																
ALF-08	8.0																																																
ALF-10	10.0																																																
ALF-12	12.0																																																



## GRAB SLIP AND 'S' HOOKS

### SWIVEL SAFETY HOOK AISI 316

Code	A	B	L	TDL	RWL	Wgt
SSH-06	22.5	21.0	120	1700	425	183g
SSH-08	24.0	27.5	144	2600	650	327g
SSH-10	28.5	28.0	165	3850	965	510g
SSH-12	36.0	35.7	205	5600	1400	1048g



### EYE GRAB HOOK AISI 316

Code	B	E	R	TDL	RWL	Wgt
EGH-06	12.0	8.5	78	2350	588	121g
EGH-08	15.0	11.0	90	3310	828	222g
EGH-10	16.5	12.5	104	4710	1178	328g
EGH-12	22.0	16.5	136	6490	1623	716g



### EYE SLIP HOOK W/SAFETY CATCH AISI 316

Code	B	E	R	TDL	RWL	Wgt
ESH-06	12.0	23.5	92	1500	375	134g
ESH-08	16.5	24.0	110	2900	725	239g
ESH-10	18.0	33.0	127	3200	800	397g
ESH-12	23.5	42.0	162	5400	1350	850g



### CLEVIS PIN GRAB HOOK AISI 316

CODE	B	E	P	R	TDL	RWL	Wgt
CGH-06	11.0	8.5	9.0	80	2100	525	156g
CGH-08	13.5	10.5	10.5	96	3100	775	285g
CGH-10	15.0	12.5	12.0	109	4000	1000	398g
CGH-12	19.0	16.5	16.0	144	7350	1838	871g



### CLEVIS PIN SLIP HOOK AISI 316

CODE	B	E	P	R	TDL	RWL	Wgt
SHC-06	11.0	22.5	9.0	100	2000	500	187g
SHC-08	12.5	24.0	10.5	112	3100	775	334g
SHC-10	15.0	33.0	12.0	132	4000	1000	523g
SHC-12	19.0	42.0	16.0	166	5600	1400	1026



### 'S' HOOK AISI 304

Code	D	A	B	L	TDL	RWL	Wgt
SS-05	5.0	9	8.5	50	150	38	16g
SS-06	6.0	12	11.0	60	200	50	29g
SS-08	8.0	16	15.0	75	400	100	68g
SS-09	9.0	18	17.0	85	650	163	102g
SS-10	10.0	18	18.0	100	800	200	110g

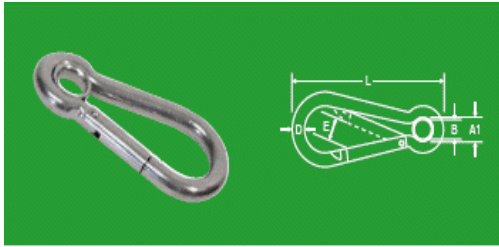


### "S" HOOK WIDE OPENING AISI 304

Code	D	L	W1	W2	S1	S2	TDL	RWL	Wgt
268-03	3	30	9	16	5.0	10.0	25	6.25	4g
268-04	4	36	12	19	6.0	12.0	50	12.50	9g
268-06	6	50	15	25	7.0	15.0	140	35.00	29g
268-08	8	67	20	33	8.0	18.0	250	62.50	66g

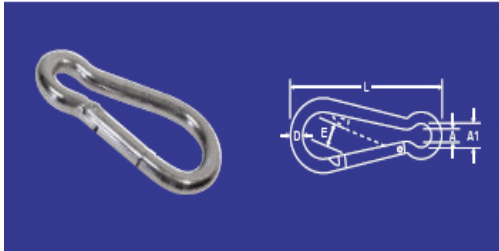


## STAINLESS STEEL HARDWARE



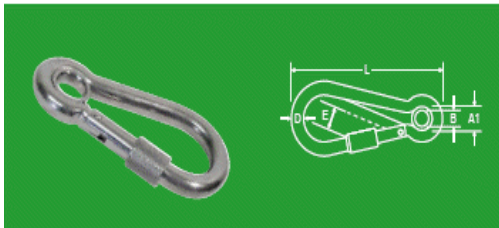
### SPRING HOOK W/EYELET AISI 316

Code	D	L	A1	E	B	TDL	Wgt
SH-E-04	4	40	9	7	6.5	450	11g
SH-E-05	5	50	10	8	7.5	570	17g
SH-E-06	6	60	13	9	9.0	670	26g
SH-E-08	8	80	13	9	11.5	870	64g
SH-E-10	10	100	16	12	14.0	1150	129g
SH-E-12	11	120	18	16	16.5	1250	191g



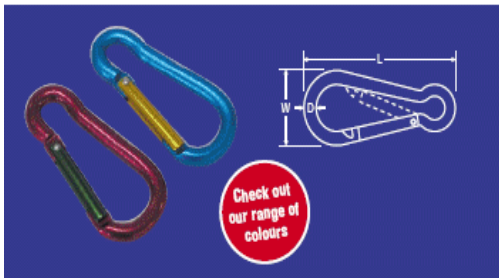
### SPRING HOOK AISI 316

Code	D	L	A1	A	E	TDL	Wgt
SH-04	4	40	9	5	7	450	11g
SH-05	5	50	10	6	8	570	17g
SH-06	6	60	13	8	9	670	27g
SH-08	8	80	13	8	9	870	66g
SH-10	10	100	16	10	12	1150	128g
SH-12	11	120	18	11	16	1250	188g



### SPRING HOOK W/EYELET & NUT AISI 316

CODE	D	L	A1	E	B	Wgt
SH-N-06	6	60	13	9	9.0	29g
SH-N-08	8	80	13	9	11.5	70g
SH-N-10	10	100	16	12	14.0	136g
SH-N-12	12	140	20	19	18.0	279g



### ALUMINIUM SPRING HOOK

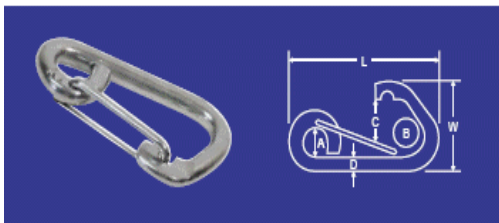
- Available in a wide range of colours, please enquire to find out more
- Not suitable for climbing purposes

Code	D	L	W	Wgt
ASH-06	6	61	30	9g
ASH-08	8	78	37	22g
ASH-10	10	100	42	35g



### CAST SNAP HOOK AISI 316

Code	L	W	S	D	TDL	RWL	Wgt
CSH-05	50	25	10	8	220	55	29g
CSH-07	70	31	11	12	350	88	56g
CSH-10	100	50	15	16	900	225	148g



### ASYMMETRIC SPRING HOOK AISI 316

Code	D	W	A	B	L	C	TDL	RWL	Wgt
SPH-A-06	6	35	7	10	61	10	750	188	29g
SPH-A-08	8	48	11	13	81	13	1750	438	66g
SPH-A-10	10	58	13	15	102	15	2250	563	124g
SPH-A-12	12	70	16	21	122	21	3650	913	222g

## HOOKS HINGE CLIP

### SAFETY SNAP HOOK W/SAFETY LATCH AISI 316

Code	E	C	D	H	C1	L	TDL	RWL	Wgt
TM314-19	19	21	9	73	22	102	750	188	126g
TM314-28	28	21	11	81	25	127	1000	250	180g



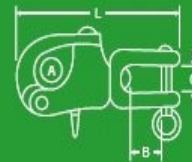
### RIGID EYE SNAP HOOK AISI 316

Code	D	C	B	L	TDL	RWL	Wgt
TM315-9	9	4.5	7	54	750	188	23g
TM315-16	16	5.0	9	72	1000	250	45g
TM315-18	18	6.0	13	81	1500	375	65g
TM315-21	21	7.0	15	98	2000	500	111g



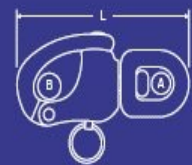
### SWIVEL JAW SNAP SHACKLE AISI 316

Code	A	B	C	L	TDL	RWL	Wgt
TM316-12	12	12	10	70	1100	275	74g
TM316-16	16	13	13	87	2000	500	156g
TM316-22	22	16	18	128	3500	875	372g



### SWIVEL EYE SNAP SHACKLE AISI 316

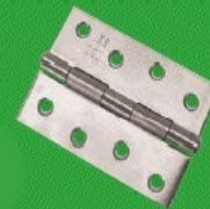
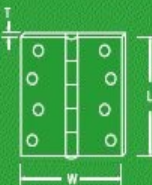
Code	A	B	L	TDL	RWL	Wgt
TM317-12	12	12	70	1100	275	58g
TM317-16	16	16	87	2000	500	129g
TM317-22	22	22	128	3500	875	300g



### BUTT HINGES AISI 304

• Riveted head butt hinge in satin finish

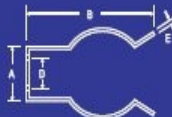
Code	L	W	T	Sold
BH-2-1.5	2"	1 1/2"	1.5mm	each
BH-2.5-1.5	2 1/2"	1 1/2"	1.5mm	each
BH-3-2	3"	2"	1.5mm	each
BH-4-3	4"	3"	1.8mm	each
BH-4-4	4"	4"	1.8mm	each



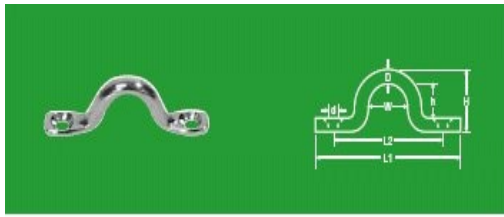
### SPRING POLE CLIP AISI 304

• Clip for holding 2" pipe

Code	Tube	A	B	D	E
SPC-50	2"	33	8.5	20	1.5

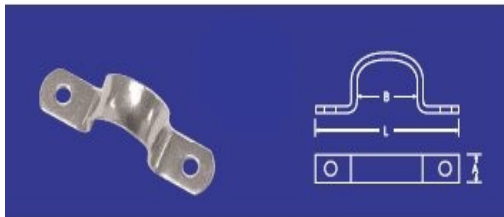


## STAINLESS STEEL HARDWARE



**SADDLE (EYE STRAP) AISI 304**

Code	D	L1	L2	H	h	W	d	Wgt
SAD-04	4	40	32	16	11	10	3.2	4g
SAD-05	5	51	40	16	13	11	4.2	8g
SAD-06	6	57	44	22	16	14	5.2	14g
SAD-08	8	63	47	25	17	11	5.2	27g



**SADDLE FLAT SHEET TWO HOLE AISI 316**

Code	A	D	L	B	Wgt
FSAD-10	11	4.2	42	10	4g
FSAD-13	11	4.2	45	13	5g
FSAD-16	11	4.2	48	16	6g



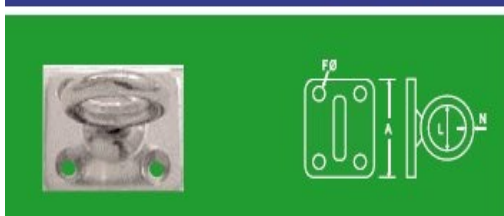
**OBLONG PAD EYE AISI 304**

Code	A	B	H	h	W	d	TDL	RWL	Wgt
OBP-05	30	35	19	12	14	4.2	700	175	26g
OBP-06	35	40	26	17	18	4.2	1000	250	38g
OBP-08	40	50	33	22	20	5.2	1600	400	63g



**OBLONG PAD EYE W/RING AISI 304**

Code	A	B	H	h	W	d	TDL	RWL	Wgt
OBP-R-05	30	35	19	12	14	4.2	700	175	44g
OBP-R-06	35	40	26	17	18	4.2	1000	250	74g
OBP-R-08	40	50	33	22	20	5.2	1600	400	130g



**OBLONG SWIVEL PAD EYE AISI 304**

Code	A	F	L	N	TDL	RWL
OBP-SW-05	35	4.2	15	5	450	113
OBP-SW-06	40	4.2	18	6	700	175
OBP-SW-08	50	5.2	19	8	850	213



**OVAL PAD EYE AISI 304**

Code	A	B1	B2	H	W	d	TDL	RWL	Wgt
OEP-05	15	45	35.5	20	14	4.2	700	175	20g
OEP-06	20	60	45.0	25	16	5.2	1000	250	33g
OEP-08	26	80	60.0	32	20	5.2	1600	400	70g



**DIAMOND PAD EYE AISI 304**

Code	A	B	H	h	W	d	TDL	RWL	Wgt
DPE-05	37	59	22	12	11	4.2	700	175	34g
DPE-06	40	64	26	15	15	4.2	1000	250	51g
DPE-08	50	80	33	20	18	5.2	1600	400	73g

## PAD EYES

### DIAMOND PAD EYE CASTING TYPE AISI 304

CODE	D	B	A	h	H	TDL	RWL	Wgt
CDPE-06	8	66	38	11	22	2200	550	51g
CDPE-08	8	89	57	18	29	4000	1000	106g
CDPE-10	10	100	60	20	35	6000	1500	192g



### ROUND PAD EYE AISI 304

Code	A1	A2	H	h	W	d	TDL	RWL	Wgt
REP-05	33	19.5	20	12	13	4.2	700	175	21g
REP-06	40	23.0	26	17	17	4.2	1000	250	36g
REP-08	50	29.5	32	21	20	5.2	1600	400	67g



### ROUND OPEN PAD EYE AISI 304

Code	A	D	E	F	TDL	RWL	Wgt
ROP-05	5	8	33	4.5	200	50	23g



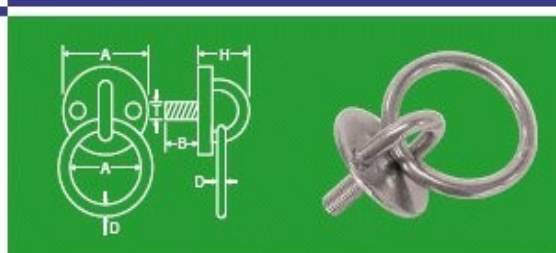
### ROUND EYE BOLT PAD EYE AISI 304

Code	A	H	h	W	B	T	TDL	RWL	Wgt
REP-05	33	20	12	13	20	M6	400	100	26g
REP-06	40	26	17	17	23	M8	500	125	47g
REP-08	50	32	20	20	25	M10	1000	250	82g



### ROUND EYE BOLT PAD EYE W/RING AISI 304

Code	D	A	H	B	T	TDL	RWL	Wgt
REP-R-05	5	33	20	20	M6	400	100	43g
REP-R-06	6	40	26	23	M8	500	125	78g
REP-R-08	8	50	32	25	M10	1000	250	153g



### OVAL OPEN PAD EYE AISI 304

CODE	A	B1	B2	H	S	d	TDL	RWL	Wgt
00P-05	15	45	35.5	20	8.0	4.2	200	50	19g
00P-06	20	60	46.0	25	12.5	5.2	220	55	30g
00P-08	25	80	60.0	32	14.0	5.2	250	63	64g



## REFERENCE TABLES

### PIPE

**UPPER FIGURES** Wall thickness in inches and millimetres **LOWER FIGURES** Weight per foot in pounds and per metre in kgs

Nominal Pipe Size		Outside Diameter		Schedule 5 S		Schedule 10 S		Schedule 40 S		Schedule 80 S									
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm								
1/8	6	0.41	10.29	.035	.14	.89	.21	.049	.19	1.24	.28	.068	.24	1.73	.36	.095	.31	2.41	.46
1/4	8	0.54	13.72	.049	.26	1.24	.39	.065	.33	1.65	.49	.088	.42	2.24	.63	.119	.54	03/02/80	
3/8	10	.675	17.15	.049	.33	1.24	.49	.065	.42	1.65	.63	.091	.57	2.31	.85	.126	.74	3.20	1.10
1/2	15	0.84	21.34	.065	.54	1.65	.80	.083	.67	2.11	1.00	.109	.85	2.77	1.27	.147	1.09	3.73	1.62
3/4	20	1.05	26.67	.065	.69	1.65	1.03	.083	.86	2.11	1.28	.113	1.13	2.87	1.68	.154	1.47	3.91	2.19
1	25	1.32	33.41	.065	.87	1.65	1.30	.109	1.40	111	2.09	.133	1.68	3.38	2.50	.179	2.17	4.55	3.23
1 1/4	32	1.66	42.16	.065	1.11	1.65	1.65	.109	1.81	2.77	2.70	.140	2.27	3.56	3.38	.191	3.00	4.85	4.47
1 1/2	40	1.9	48.26	.065	1.28	1.65	1.91	.109	2.09	2.77	3.11	.145	2.72	3.68	4.05	.200	3.63	5.08	5.41
2	50	2.38	60.03	.065	1.61	1.65	2.40	.109	2.64	2.77	3.93	.154	3.65	3.91	5.44	.218	5.02	5.54	7.48
2 1/2	65	2.88	73.03	.083	2.48	2.11	3.69	.120	3.53	3.05	5.26	.203	5.79	5.16	8.62	.276	7.66	7.01	11.41
3	80	3.5	88.9	.083	3.03	2.11	4.51	.120	4.33	3.05	6.45	.216	7.58	5.33	11.29	.300	10.25	7.62	15.27
3 1/2	90	4	101.6	.083	3.48	2.11	5.18	.120	4.97	3.05	7.40	.226	9.11	5.74	13.57	.318	12.51	8.08	18.63
4	100	4.5	114.3	.083	3.92	2.11	5.84	.120	5.61	3.05	8.36	.237	10.79	6.02	16.07	.337	14.98	8.56	22.31
5	125	5.56	141.3	.109	6.36	2.77	9.47	.134	7.77	3.40	11.57	.258	14.62	6.55	21.78	.375	20.78	9.52	30.95
6	150	6.63	168.28	.109	7.60	111	11.32	.134	9.29	3.40	13.84	.280	18.97	7.11	28.26	.432	28.57	10.97	42.56
8	200	8.63	219.18	.109	9.93	2.77	14.79	.148	13.40	3.76	19.96	.322	28.55	8.18	42.53	.500	43.39	12.70	64.63
10	250	10.75	273.05	.134	15.19	3.40	22.63	.165	18.65	4.19	27.78	.365	40.48	9.27	60.29	.500	54.74	12.70	81.54
12	300	12.75	323.85	.156	20.98	3.96	31.25	.180	24.17	4.57	36.00	.375	49.56	9.52	73.82	.500	65.42	12.70	97.44
14	350	14	355.6	.156	23.07	3.96	34.36	.188	27.73	4.78	41.30								
16	400	16	406.4	.165	27.90	4.19	41.56	.188	31.75	4.78	47.29								
18	450	18	457.2	.165	31.43	4.19	46.81	.188	35.76	4.78	53.26								
20	500	20	508	.188	39.78	4.78	59.25	.218	46.06	5.54	68.61								
22	550	22	558.8	.188	43.80	4.78	65.24	.218	50.71	5.54	75.53								
24	600	24	609.6	.218	55.37	5.54	82.47	.250	63.41	6.35	94.45								
30	750	30	762	.250	79.43	6.35	118.31	.312	98.93	7.93	147.36								

**NOTES:** (1) With the exception of 1/8 -1/4 & 3/8 Schedule 5S Sizes, this table is based on USAS, B 36-19-1965, for material and products such as are covered by ASTM A 312 and ASTM A 409.

The pipe wall thickness schedules listed in American Standard B 36.19 and ASTM A 409 are applicable only to corrosion resistant materials.

**MINIMUM THICKNESS** — Unless otherwise provided by the specification, the actual wall at any part for sizes up to and including 12NB (300.00mm) shall not be more than 12.5 per cent under the nominal thickness.

Sizes 14NB (350.00mm) and larger shall not be more than 0.018 in. (.46mm) under specified thickness.

(4) **STRAIGHTNESS** — Maximum deviation from a 10 foot (305mm) straight edge placed so that both ends are in contact with the pipe shall not exceed 1/8 in. (3.18mm). ASTM A 409 allows 3/16 in. - 4.76mm

**PRESSURES****TECHNICAL DATA****T316 Stainless Steel Pipes****Allowable working pressure at temperature with zero allowance for corrosion and/or mechanical strength**

Nom. Pipe Size	SCH. No	Wall Thickness	20 to 100	200	300	400	500	600	650	700	750	800	850	900	950
1/2"	5S	0.065	2290	2290	2180	2130	2100	2090	2080	2070	2060	2040	2010	1950	1840
	10S	0.083	2960	2960	2830	2770	2720	2700	2700	2690	2670	2650	2610	2530	2390
	40S	0.109	4690	4690	4480	4380	4300	4280	4260	4250	4230	4190	4130	4000	3780
	80S	0.147	6550	6550	6250	6110	6010	5970	5960	5940	5900	5850	5760	5590	5270
3/4"	5S	0.065	1810	1810	1730	1690	1660	1650	1650	1640	1630	1620	1590	1540	1460
	10S	0.083	2340	2340	2230	2180	2150	2130	2130	2120	2110	2090	2060	2000	1880
	40S	0.113	3820	3820	3650	3570	3510	3490	3480	3470	3450	3420	3370	3260	3080
	80S	0.154	5370	5370	5120	5010	4920	4900	4880	4870	4840	4800	4720	4580	4320
1"	5S	0.065	1430	1430	1370	1340	1310	1310	1300	1300	1290	1280	1260	1220	1150
	10S	0.109	2460	2460	2350	2300	2260	2240	2240	2230	2220	2200	2160	2100	1980
	40S	0.133	3580	3580	3410	3340	3280	3260	3250	3240	3220	3200	3150	3050	2880
	80S	0.179	4940	4940	4720	4610	4530	4510	4490	4480	4450	4410	4350	4220	3980
1 1/4"	5S	0.065	1130	1130	1080	1050	1030	1030	1030	1020	1020	1010	990	960	910
	10S	0.109	1920	1920	1840	1800	1770	1760	1750	1740	1730	1720	1690	1640	1550
	40S	0.140	2950	2950	2810	2750	2700	2690	2680	2670	2660	2630	2590	2510	2370
	80S	0.191	4110	4110	3920	3840	3770	3750	3740	3730	3710	3670	3620	3510	3310
1 1/2"	5S	0.065	980	980	940	920	900	900	890	890	890	880	870	840	790
	10S	0.109	1670	1670	1600	1560	1530	1520	1520	1520	1510	1490	1470	1430	1350
	40S	0.145	2650	2650	2530	2470	2430	2420	2410	2400	2390	2370	2330	2260	2130
	80S	0.200	3730	3730	3560	3480	3420	3410	3400	3390	3370	3340	3290	3190	3010
2"	5S	.065**	780	780	750	730	720	710	710	710	710	700	690	670	630
	10S	0.109	1330	1330	1270	1240	1220	1210	1210	1200	1200	1190	1170	1130	1070
	40S	0.154	2230	2230	2130	2080	2050	2040	2030	2030	2010	2000	1970	1910	1800
	80S	0.218	3220	3220	3080	3010	2960	2940	2930	2920	2910	2880	2840	2750	2600
2 1/2"	5S	0.083	830	830	790	770	760	750	750	750	750	740	730	710	670
	10S	0.120	1200	1200	1150	1120	1100	1100	1090	1090	1090	1080	1060	1030	970
	40S	0.203	2440	2440	2330	2280	2240	2230	2220	2210	2200	2180	2150	2080	1970
	80S	0.276	3380	3380	3230	3160	3100	3080	3080	3070	3050	3020	2980	2890	2720
3"	5S	0.083	680	680	650	630	620	620	620	610	610	600	600	580	550
	10S	0.120	980	980	940	920	900	900	900	890	890	880	870	840	790
	40S	0.216	2120	2120	2020	1980	1950	1930	1930	1290	1910	1900	1870	1810	1710
	80S	0.300	3000	3000	2860	2800	2750	2730	2730	2720	2700	2680	2640	2560	2410
3 1/2"	5S	.083t	590	590	570	550	540	540	540	540	530	530	520	510	473
	10S	0.120	860	860	820	800	790	790	780	780	770	770	760	730	690
	40S	0.226	1930	1930	1850	1810	1780	1760	1760	1750	1740	1730	1700	1650	1560
	80S	0.318	2770	2770	2640	2580	2540	2520	2520	2510	2490	2470	2440	2360	2230
4"	5S	0.083	530	530	497	487	478	475	474	473	470	465	459	445	420
	10S	0.120	760	760	730	710	700	700	690	690	690	680	670	650	610
	40S	0.237	1800	1800	1720	1680	1650	1640	1640	1630	1620	1610	1580	1540	1450
	80S	0.337	2600	2600	2480	2420	2380	2370	2360	2360	2340	2320	2290	2220	2090

All dimensions are in inches

(Thickness is less than recommended for Refinery and Oil Transportation

Piping per Code for Pressure Piping, ASA B31.1-1955, par. 324 (a), Note 3.

The above tabular values are rounded off to the next higher unit of 10 for pressures 500 psi and higher. Interpolation is permissible for intermediate temperatures.

The allowable pressures were calculated by the formula given in the Code for Pressure Piping, ASA B31.1-1955, Section 3, par. 324 (a):  $2S(t-C) D - 2y(t-C)$  where P = allowable pressure in lb per sq in. (gauge).

S = allowable working stress in lb per sq in. (with 85% joint efficiency applied for 5S and 10S made from welded tubing)

D = outside diameter in inches

**PRESSURES CONTINUED****TECHNICAL DATA****T316 Stainless Steel Pipes**

**Allowable working pressure at temperature with zero allowance for corrosion and/or mechanical strength**

Nom. Pipe Size	SCH. No	Wall Thickness	20 to 100	200	300	400	500	600	650	700	750	800	850	900	950
5"	5S	.109t	560	560	530	520	510	510	510	510	499	495	488	473	446
	10S	0.134	690	690	660	640	630	630	630	620	620	620	610	590	550
	40S	0.258	1580	1580	1510	1470	1450	1440	1430	1430	1420	1410	1390	1350	1270
	80S	0.375	2330	2330	2220	2170	2130	2120	2120	2110	2100	2080	2050	1990	1870
6"	5S	.109t	464	464	443	443	426	423	422	421	419	414	408	396	374
	10S	0.134	580	580	550	540	530	530	530	520	520	520	510	489	461
	40S	0.280	1430	1430	1370	1340	1320	1310	1300	1300	1290	1280	1260	1220	1160
	80S	0.432	2250	2250	2140	2100	2060	2050	2040	2040	2030	2010	1980	1920	1810
8"	5S	.109**	356	356	340	332	326	324	323	322	321	318	313	304	287
	10S	0.148	484	484	462	453	444	442	441	439	437	432	426	413	390
	40S	0.322	1260	1260	1210	1180	1160	1150	1150	1140	1140	1130	1110	1080	1020
	80S	0.500	1990	1990	1900	1850	1820	1810	1810	1800	1790	1780	1750	1700	1600
10"	5S	.134t	351	351	335	327	322	320	319	318	317	313	308	300	283
	10S	0.165	432	432	413	404	397	394	393	392	390	387	380	370	348
	40S	0.265	1150	1150	1090	1070	1050	1050	1040	1040	1030	1020	1010	980	920
	80S	0.500	1580	1580	1510	1480	1450	1440	1440	1430	1430	1410	1390	1350	1270
12"	5S	0.156	344	344	329	321	316	314	313	312	310	307	303	294	277
	10S	0.180	397	397	379	371	364	362	361	360	358	355	350	339	320
	40S	0.375	990	990	950	920	910	900	900	900	890	880	870	850	800
	80S	0.500	1330	1330	1270	1240	1220	1210	1210	1200	1200	1190	1170	1130	1070

**TECHNICAL DATA**

**T316 Stainless Steel Pipes**

**Allowable working pressure at temperature with zero allowance for corrosion and/or mechanical strength**

Nom. Pipe Size	SCH. No	Wall Thickness	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
1/2"	5S	0.065	1710	1490	1290	1090	870	680	510	381	299	235	191
	10S	0.083	2220	1930	1680	1430	1140	890	670	510	393	309	251
	40S	0.109	3500	3050	2670	2300	1840	1440	1080	810	640	500	405
	80S	0.147	4890	4260	3770	3320	2660	2070	1560	1170	920	730	590
3/4"	5S	0.065	1350	1180	1020	850	680	530	398	299	234	184	150
	10S	0.083	1750	1520	1320	1110	890	700	530	391	306	241	196
	40S	0.113	2860	2490	2170	1850	1480	1150	870	660	510	401	325
	80S	0.154	4010	3490	3070	2660	2130	1660	1260	940	740	580	469
1"	5S	0.065	1070	930	800	670	540	414	313	235	184	144	117
	10S	0.109	1840	1600	1390	1170	940	730	550	411	323	254	206
	40S	0.133	2670	2330	2020	1720	1380	1080	810	610	475	374	303
	80S	0.179	3690	3220	2820	2430	1950	1520	1150	860	680	530	429

All dimensions are in inches

(Thickness is less than recommended for Refinery and Oil Transportation

Piping per Code for Pressure Piping, ASA B31.1-1955, par. 324 (a), Note 3.

The above tabular values are rounded off to the next higher unit of 10 for pressures 500 psi and higher.

Interpolation is permissible for intermediate temperatures.

The allowable pressures were calculated by the formula given in the Code for Pressure Piping, ASA B31.1-1955, Section 3, par. 324 (a):  $2S(t-C) D-2y(t-C)$  where P = allowable pressure in lb per sq in. (gauge).

S = allowable working stress in lb per sq in. (with 85% joint efficiency applied for 5S and 10S made from welded tubing)

D = outside diameter in inches



## PRESSURES CONTINUED

### TECHNICAL DATA

#### T316 Stainless Steel Pipes

Allowable working pressure at temperature with zero allowance for corrosion and/or mechanical strength

Nom. Pipe Size	SCH. No	Wall Thickness	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
1 1/4"	5S	0.065	840	740	630	520	416	324	244	184	143	114	91
	10S	0.109	1440	1250	1080	910	730	570	425	319	250	197	159
	40S	0.140	2200	1920	1660	1440	1120	880	660	494	387	305	247
	80S	0.191	3070	2680	2330	2000	1600	1250	940	710	560	434	352
1 1/2"	5S	0.065	730	640	550	452	361	282	212	159	124	98	80
	10S	0.109	1250	1090	940	780	630	487	368	275	216	170	138
	40S	0.145	1980	1730	1490	1260	1010	790	590	442	346	273	221
	80S	0.200	2790	2430	2110	1800	1440	1130	850	640	497	391	317
2"	5S	.065**	590	510	434	358	287	223	169	126	99	78	63
	10S	0.109	990	870	740	620	492	384	289	217	170	134	108
	40S	0.154	1670	1450	1260	1050	840	660	493	370	290	228	185
	80S	0.218	2410	2100	1820	1540	1240	960	730	550	425	335	271
2 1/2"	5S	0.083	630	540	458	378	303	236	178	134	104	83	67
	10S	0.120	900	780	670	560	445	346	261	197	154	121	98
	40S	0.203	1820	1590	1370	1150	920	720	550	406	318	250	203
	80S	0.276	2530	2200	1910	1620	1300	1010	770	580	447	352	286
3"	5S	0.083	510	438	375	309	248	192	146	109	85	67	54
	10S	0.120	740	640	550	453	362	283	212	159	125	99	80
	40S	0.216	1590	1380	1190	1000	800	620	467	350	275	216	175
	80S	0.300	2240	1950	1690	1430	1140	890	670	510	394	310	251
3 1/2"	5S	.083t	439	382	327	269	216	168	126	95	74	58	48
	10S	0.120	640	560	477	394	314	245	185	139	108	86	69
	40S	0.226	1450	1260	1090	910	730	570	425	319	250	197	159
	80S	0.318	2070	1800	1560	1310	1050	820	620	462	362	285	231
4"	5S	0.083	389	339	290	239	191	149	113	84	66	52	42
	10S	0.120	570	493	423	348	278	218	164	123	97	75	62
	40S	0.237	1340	1170	1010	840	670	530	394	296	232	182	148
	80S	0.337	1940	1690	1460	1230	990	770	580	433	339	267	216
5"	5S	.109t	413	360	308	254	203	158	119	89	70	55	45
	10S	0.134	510	444	380	313	251	1960	148	110	87	68	55
	40S	0.258	1180	1030	880	740	590	456	344	258	202	159	129
	80S	0.375	1740	1510	1310	1100	880	690	520	386	302	238	193
6"	5S	.109t	346	302	258	212	170	133	100	75	58	46	37
	10S	0.134	427	372	319	262	209	164	123	92	72	57	47
	40S	0.280	1070	930	800	670	530	413	312	234	183	144	117
	80S	0.432	1680	1460	1260	1060	850	660	496	372	291	229	186
8"	5S	.109**	266	232	198	163	130	101	76	57	45	35	29
	10S	0.148	361	316	270	222	177	138	104	79	62	48	39
	40S	0.322	940	820	710	590	466	363	274	205	161	127	103
	80S	0.500	1480	1290	1120	930	750	580	437	328	257	202	164
10"	5S	.134t	261	228	194	160	129	100	75	56	45	35	29
	10S	0.165	323	282	241	198	158	123	94	70	54	44	35
	40S	0.265	860	750	640	530	422	329	248	186	146	115	93
	80S	0.500	1180	1030	890	740	590	457	345	259	203	160	129
12"	5S	0.156	257	224	191	157	126	98	74	55	43	34	28
	10S	0.180	296	259	221	182	146	114	85	64	50	39	32
	40S	0.375	740	650	550	454	363	283	214	160	125	99	80
	80S	0.500	990	870	740	620	490	382	288	216	169	133	108

All dimensions are in inches (Thickness is less than recommended for Refinery and Oil Transportation

Piping per Code for Pressure Piping, ASA B31.1-1955, par. 324 (a), Note 3.

The above tabular values are rounded off to the next higher unit of 10 for pressures 500 psi and higher. Interpolation is permissible for intermediate temperatures.

The allowable pressures were calculated by the formula given in the Code for Pressure Piping, ASA B31.1-1955, Section 3, par. 324 (a):  $2S(t-C) D-2y(t-C)$  where P = allowable pressure in lb per sq in. (gauge).

S = allowable working stress in lb per sq in. (with 85% joint efficiency applied for 5S and 10S made from welded tubing)

D = outside diameter in inches

## PRESSURES CONTINUED

### TECHNICAL DATA

#### T304 Stainless Steel Pipes

Allowable working pressure at temperature with zero allowance for corrosion and/or mechanical strength

Nom. Pipe Size	SCH. No	Wall Thickness	20 to 100	200	300	400	500	600	650	700	750	800	850	900	950
1/2"	5S	0.07	2290	2030	1830	1670	1530	1420	1370	1320	1270	1220	1190	1150	1110
	10S	0.08	2960	2630	2370	2160	1980	1840	1770	1710	1650	1580	1540	1490	1440
	40S	0.11	4690	4160	3750	3410	3130	2900	2800	2700	2600	2500	2430	2350	2280
	80S	0.15	6550	5820	5240	4770	4370	4050	3910	3770	3630	3490	3390	3290	3180
3/4	5S	0.07	1810	1610	1450	1320	1210	1120	1080	1040	1010	970	940	910	880
	10S	0.08	2340	2080	1870	1700	1560	1450	1400	1350	1300	1250	1210	1170	1140
	40S	0.11	3820	3400	3060	2780	2550	2370	2290	2200	2120	2040	1980	1920	1860
	80S	0.15	5370	4770	4290	3910	3580	3320	3210	3090	2980	2860	2780	2690	2610
1	5S	0.07	1430	1270	1150	1040	960	890	860	830	800	770	740	720	700
	10S	0.11	2460	2180	1970	1790	1640	1520	1470	1420	1370	1310	1270	1230	1200
	40S	0.13	3580	3180	2860	2600	2390	2210	2140	2060	1990	1910	1850	1800	1740
	80S	0.18	4940	4390	3950	3600	3300	3060	2950	2850	2740	2640	2560	2480	2400
1 1/4	5S	0.07	1130	1000	900	820	750	700	670	650	630	600	590	570	550
	10S	0.11	1920	1710	1540	1400	1280	1190	1150	1110	1070	1030	1000	970	940
	40S	0.14	2950	2620	2360	2150	1970	1820	1760	1700	1640	1570	1530	1480	1430
	80S	0.19	4110	3650	3290	2990	2740	2540	2460	2370	2280	2190	2130	2060	2000
1 1/2	5S	0.07	980	870	790	720	660	610	590	570	550	530	510	490	475
	10S	0.11	1670	1480	1340	1220	1120	1040	1000	960	930	890	870	840	810
	40S	0.15	2650	2350	2120	1930	1770	1640	1580	1530	1470	1420	1370	1330	1290
	80S	0.2	3730	3320	2990	2720	2490	2310	2230	2150	2070	1990	1930	1870	1810
2	5S	.065t	780	700	630	570	520	481	465	448	431	415	403	390	377
	10S	0.11	1330	1180	1060	970	890	820	790	770	740	710	690	670	650
	40S	0.15	2230	1980	1790	1630	1490	1380	1340	1290	1240	1190	1160	1120	1090
	80S	0.22	3220	2860	2580	2350	2150	2000	1930	1860	1790	1720	1670	1620	1570
2 1/2"	5S	0.08	830	730	660	600	550	510	491	474	456	439	425	412	398
	10S	0.12	1200	1070	960	880	800	750	720	700	670	640	620	610	590
	40S	0.2	2440	2170	1950	1780	1630	1510	1460	1410	1360	1300	1270	1230	1190
	80S	0.28	3380	3000	2710	2460	2260	2090	2020	1950	1800	1810	1750	1700	1640
3	5S	0.08	680	600	540	490	448	416	402	388	373	359	347	337	326
	10S	0.12	980	870	790	720	660	610	590	570	550	530	510	491	476
	40S	0.22	2120	1880	1700	1550	1420	1310	1270	1220	1180	1130	1100	1070	1030
	80S	0.3	3000	2660	2400	2180	2000	1860	1790	1730	1660	1600	1550	1500	1460
3 1/2	5S	.083t	590	530	470	427	391	363	351	338	326	313	304	294	285
	10S	0.12	890	760	690	630	570	530	510	492	474	456	442	428	414
	40S	0.23	1930	1720	1550	1410	1290	1200	1160	1120	1080	1030	1000	970	940
	80S	0.32	2770	2460	2210	2020	1850	1710	1650	1600	1540	1480	1430	1390	1350
4	5S	0.08	530	463	416	379	347	322	311	301	289	278	270	261	253
	10S	0.12	760	680	610	560	510	470	453	437	421	404	392	380	368
	40S	0.24	1800	1600	1440	1310	1200	1110	1080	1040	1000	960	930	900	88
	80S	0.34	2600	2310	2080	1890	1730	1610	1550	1500	1440	1390	1350	1300	1260
5	5S	.109t	560	492	443	404	370	343	332	319	310	295	287	277	269
	10S	0.13	690	610	550	497	456	423	408	393	379	364	354	342	332
	40S	0.26	1580	1400	1260	1150	1050	980	940	910	880	840	820	790	770
	80S	0.38	2330	2070	1860	1690	1550	1440	1390	1340	1290	1240	1210	1170	1130
6	5S	.109t	464	412	372	338	309	287	277	268	257	248	240	233	225
	10S	0.13	580	510	458	416	381	354	342	329	318	305	296	287	277
	40S	0.28	1430	1270	1150	1040	960	890	860	830	800	770	740	720	700
	80S	0.43	2250	2000	1800	1640	1500	1390	1340	1300	1250	1200	1160	1130	1090

All dimensions are in inches (Thickness is less than recommended for Refinery and Oil Transportation

Piping per Code for Pressure Piping, ASA B31.1-1955, par. 324 (a), Note 3.

The above tabular values are rounded off to the next higher unit of 10 for pressures 500 psi and higher. Interpolation is permissible for intermediate temperatures.

The allowable pressures were calculated by the formula given in the Code for Pressure Piping, ASA B31.1-1955, Section 3, par. 324 (a):  $2S(t-C)$

$D-2y(t-C)$  where P = allowable pressure in lb per sq in. (gauge). D = outside diameter in inches

S = allowable working stress in lb per sq in. (with 85% joint efficiency applied for 5S and 10S made from welded tubing)

## PRESSURES CONTINUED

**TECHNICAL DATA**

**T304 Stainless Steel Pipes**

**Allowable working pressure at temperature with zero allowance for corrosion and/or mechanical strength**

Nom. Pipe Size	SCH. No	Wall Thickness	20 to 100	200	300	400	500	600	650	700	750	800	850	900	950
8	5S	.109t	356	316	285	259	237	220	212	205	198	190	184	178	172
	10S	0.15	484	430	388	353	323	300	289	279	269	258	251	243	235
	40S	0.32	1260	1120	1010	920	840	780	760	730	700	680	660	640	610
	80S	0.5	1990	1770	1590	1450	1330	1230	1190	1150	1100	1060	1030	1000	970
10	5S	.134t	351	311	280	255	234	217	209	202	194	187	182	175	170
	10S	0.17	432	385	346	316	289	268	258	250	240	231	224	217	210
	40S	0.27	1150	1020	920	840	770	710	690	660	640	610	590	580	560
	80S	0.5	1580	1410	1270	1150	1060	980	950	910	880	850	820	800	770
12	5S	0.16	344	306	275	251	229	213	206	198	191	184	178	173	167
	10S	0.18	397	350	318	289	266	246	238	230	221	212	206	200	193
	40S	0.38	990	880	790	720	660	610	590	570	550	530	510	494	478
	80S	0.5	1330	1180	1060	970	890	820	790	770	740	710	690	670	650

**TECHNICAL DATA**

**T304 Stainless Steel Pipes**

**Allowable working pressure at temperature with zero allowance for corrosion and/or mechanical strength**

Nom. Pipe Size	SCH. No	Wall Thickness	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
1/2"	5S	0.07	1080	1040	930	740	580	413	311	228	178	128	96
	10S	0.08	1390	1350	1210	970	760	550	410	301	234	167	125
	40S	0.11	2200	2130	1930	1560	1220	880	670	486	378	270	203
	80S	0.15	3080	2970	2720	2250	1760	1270	960	710	550	390	292
3/4"	5S	0.07	850	820	730	580	448	324	244	180	139	100	74
	10S	0.08	1100	1060	950	750	590	423	319	235	183	131	98
	40S	0.11	1800	1740	1560	1250	980	710	540	390	304	217	163
	80S	0.15	2520	244	2210	1800	1410	1020	770	570	438	313	235
1	5S	0.07	670	650	580	450	352	254	191	141	109	79	58
	10S	0.11	1160	1120	1000	790	620	446	336	246	192	137	103
	40S	0.13	1680	1620	1460	1170	910	660	495	364	283	202	152
	80S	0.18	2320	2240	2030	1650	1290	930	700	520	400	286	214
1 1/4"	5S	0.07	530	510	453	352	275	199	150	110	86	62	46
	10S	0.11	910	870	780	620	478	345	260	191	149	106	80
	40S	0.14	1380	1340	1200	950	750	540	403	296	230	165	123
	80S	0.19	1930	1870	1680	1350	1060	770	580	422	328	234	176
1 1/2"	5S	0.07	459	443	393	305	239	172	130	96	74	53	39
	10S	0.11	790	760	680	530	413	299	225	165	129	91	69
	40S	0.15	1250	1200	1080	850	670	479	361	265	206	147	110
	80S	0.2	1750	1690	1530	1220	960	690	520	381	296	211	159
2	5S	.065t	366	353	312	242	189	137	103	75	60	42	32
	10S	0.11	620	600	540	415	325	235	177	131	101	72	54
	40S	0.15	1050	1010	910	710	560	401	302	222	173	123	92
	80S	0.22	1520	1460	1310	1050	820	590	443	326	253	181	136
2 1/2"	5S	0.08	386	373	330	256	201	144	109	80	63	45	33
	10S	0.12	570	550	483	376	294	212	160	118	91	66	49
	40S	0.2	1150	1110	990	780	610	440	331	243	189	135	101
	80S	0.28	1590	1540	1380	1100	860	620	466	343	267	190	143

All dimensions are in inches (Thickness is less than recommended for Refinery and Oil Transportation Piping per Code for Pressure Piping, ASA B31.1-1955, par. 324 (a), Note 3.

The above tabular values are rounded off to the next higher unit of 10 for pressures 500 psi and higher. Interpolation is permissible for intermediate temperatures. D = outside diameter in inches

The allowable pressures were calculated by the formula given in the Code for Pressure Piping, ASA B31.1-1955, Section 3, par. 324 (a):  $2S(t-C) D - 2y(t-C)$  where P = allowable pressure in lb per sq in. (gauge).

S = allowable working stress in lb per sq in. (with 85% joint efficiency applied for 5S and 10S made from welded tubing)

**PRESSURES CONTINUED**

**TECHNICAL DATA**

**T304 Stainless Steel Pipes**

**Allowable working pressure at temperature with zero allowance for corrosion and/or mechanical strength**

Nom. Pipe Size	SCH. No	Wall Thickness	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
3	5S	0.08	316	305	270	209	164	118	89	66	51	36	28
	10S	0.12	460	444	394	306	239	173	131	96	74	53	40
	40S	0.22	1000	960	860	680	530	380	286	210	164	117	88
	80S	0.3	1410	1360	1220	970	760	550	411	302	235	169	126
3 1/2	5S	.083t	275	267	236	182	142	103	78	57	45	32	23
	10S	0.12	402	388	343	267	208	151	114	83	65	47	35
	40S	0.23	910	880	780	620	478	345	260	191	149	106	80
	80S	0.32	1300	1260	1130	890	700	510	378	277	216	154	116
4	5S	0.08	244	236	209	162	126	91	69	51	39	28	21
	10S	0.12	356	343	305	236	185	133	101	73	57	41	31
	40S	0.24	850	820	730	570	443	320	241	177	138	99	74
	80S	0.34	1220	1180	1060	830	650	469	354	260	202	144	108
5	5S	.109t	260	251	222	172	134	97	73	54	41	30	22
	10S	0.13	321	310	274	212	166	120	90	67	52	37	28
	40S	0.26	740	720	640	495	387	280	211	155	120	86	65
	80S	0.38	1090	1060	940	740	580	418	315	231	180	129	96
6	5S	.109t	218	210	186	143	113	81	62	45	35	26	19
	10S	0.13	269	259	230	177	139	100	75	55	44	31	23
	40S	0.28	680	650	580	449	351	254	191	140	109	78	59
	80S	0.43	1060	1020	910	720	560	403	304	223	174	124	93
8	5S	.109t	167	162	142	109	86	62	47	34	27	1	14
	10S	0.15	227	220	194	150	117	85	64	47	36	27	19
	40S	0.32	590	570	510	394	308	223	168	123	96	68	51
	80S	0.5	940	900	810	630	491	355	268	197	153	109	82
10	5S	.134t	165	159	140	108	85	62	46	34	27	19	14
	10S	0.17	203	197	173	134	105	75	57	41	33	23	17
	40S	0.27	540	520	459	356	279	201	152	112	87	62	46
	80S	0.5	740	720	640	496	388	281	21	155	121	86	65
12	5S	0.16	162	156	138	106	83	60	45	33	26	18	14
	10S	0.18	187	181	159	123	97	69	52	38	30	21	16
	40S	0.38	462	447	396	307	240	174	131	96	75	53	40
	80S	0.5	630	600	540	415	324	234	177	130	101	72	54

All dimensions are in inches (Thickness is less than recommended for Refinery and Oil Transportation

Piping per Code for Pressure Piping, ASA B31.1-1955, par. 324 (a), Note 3.

The above tabular values are rounded off to the next higher unit of 10 for pressures 500 psi and higher. Interpolation is permissible for intermediate temperatures.

The allowable pressures were calculated by the formula given in the Code for Pressure Piping, ASA B31.1-1955, Section 3, par. 324 (a):  $2S(t-C) D-2y(t-C)$  where P = allowable pressure in lb per sq in. (gauge).

S = allowable working stress in lb per sq in. (with 85% joint efficiency applied for 5S and 10S made from welded tubing)

D = outside diameter in inches

## REFERENCE TABLES

### BAR

### Conversion & Data Charts

MM	INCHES	UNIFIED	BA
0.79	0.031	1/32	
1		0.04	
1.52	0.060	0	
1.59	0.062	1/16	
1.7		0.07	10
2		0.08	
2.18		0.09	2
2.2		0.09	8
2.38	0.094	3/32	
2.5		0.1	
2.8		0.11	6
2.84		0.11	4
3		0.12	
3.17	0.125	1/8	5
3.2		0.13	5
3.5		0.14	6
3.6		0.14	4
3.97	0.156	5/32	
4		0.16	
4.1		0.16	3
4.17		0.16	8
4.7		0.19	2
4.76	0.187	3/16	
4.83		0.19	10
5		0.2	
5.3		0.21	1
5.56	0.219	7/32	
6		0.24	0
6.35	0.250	1/4	
7		0.28	
7.14	0.281	9/32	
7.94	0.312	5/16	

MM	INCHES	
8	0.32	
8.73	0.34	11/32
9	0.35	
9.52	0.38	3/8
10	0.39	
10.32	0.41	13/32
11	0.43	
11.11	0.44	7/16
11.91	0.47	15/32
12	0.47	
12.7	0.5	1/2
13	0.51	
14	0.55	
14.29	0.56	7/16
15	0.59	
15.87	0.63	5/8
16	0.63	
17	0.67	
17.46	0.69	11/16
18	0.71	
19	0.75	
19.05	0.75	3/4
20	0.79	
20.64	0.81	13/16
22.22	0.88	7/8
23.81	0.94	15/16
25	0.98	
25.4	1	1
27	1.06	
28.57	1.13	1.1/8
30	1.18	
31.75	1.25	1.1/4

**REFERENCE TABLES**  
**BAR**  
**Conversion & Data Charts**

MM	INCHES	
33	1.3	
35	1.38	
36	1.42	
38.1	1.5	1.1/2
40	1.58	
44.45	1.75	1.3/4
45	1.77	
50	1.97	
50.8	2	
55	2.17	
57.15	2.25	2.1/4
60	2.36	
63.5	2.5	2.1/2
65	2.56	
69.85	2.75	
70	2.76	
75	2.95	
76.2	3	3
80	3.15	
88.9	3.5	
90	3.54	
100	3.94	
101.6	4	4
110	4.33	
114.3	4.5	4.1/2
120	4.72	
127	5	5
130	5.12	
139.7	5.5	5.1/2
140	5.51	
150	5.91	
152.4	6	6

## REFERENCE TABLES PRESSURE

<b>Technical references</b>			
Pressure ready reference			
1psi = 6.89476kPa			
1kPa = 0.145038psi			
psi	kPa	psi	kPa
0.1	0.69	70	482.6
0.145	1	72.52	500
0.5	3.45	75	517.1
0.725	5	79.77	550
1	6.89	80	551.6
1.45	10	87.02	600
2	13.79	90	620.5
2.90	20	94.27	650
3	20.68	100	689.5
4	27.58	101.5	700
4.35	30	116.0	800
5	34.47	125	861.9
5.80	40	130.5	900
6	41.37	145.0	1000
7	48.26	150	1034
7.25	50	160	1103
8	55.16	174	1200
8.70	60	175	1207
9	62.05	200	1379
10	68.95	203	1400
10.15	70	218	1500
11	75.84	225	1551
11.60	80.	250	1724
12	82.74	254	1750
13	89.63	275	1896
13.05	90	290	2000
14	96.53	300	2068
14.50	100	325	2241
14.70	101.325	350	2413
15	103.4	363	2500
17.40	120	375	2586
18.13	125	400	2758
20	137.9	425	2930
21.76	150	435	3000
25	172.3	450	3103
25.38	175	500	3447
29.01	200	508	3500
30	206.8	550	3792
36.26	250	580	4000
40	275.8	600	4137
43.51	300	700	4826
50	344	725	5000
50.76	350	800	5516
58.02	400	870	6000
60	413.7	900	6205
65.27	450	1000	6895

Temperature equivalents			
°C	← F	C →	°F
-28.9	-20	-4.0	
-26.1	-15	-5.0	
23.3	-10	14.0	
-20.6	-5	23.0	
-17.8	0	32.0	
-15.0	5	41.0	
-12.2	10	50.0	
-9.4	15	59.0	
-6.7	20	68.0	
-3.9	25	77.0	
-1.1	30	86.0	
1.7	35	95.0	
4.4	40	104.0	
7.2	45	113.0	
10.0	50	122.0	
12.8	55	131.0	
15.6	60	140.0	
18.3	65	149.0	
21.1	70	158.0	
23.9	75	167.0	
26.7	80	176.0	
29.4	85	185.0	
32.2	90	194.0	
35.0	95	203.0	
37.8	1000	212.0	
43.3	110	230.0	
48.9	120	248.0	
54.4	130	266.0	
60.0	140	284.0	
65.6	150	302.0	
71.1	160	320.0	
76.7	170	338.0	
82.2	180	356.0	
87.8	190	374.0	
93.3	200	392.0	
98.9	210	410.0	
104.4	220	428.0	
110.0	230	446.0	
121.1	250	482.0	
148.9	300	572.0	
176.7	350	662.0	
204.4	400	752.0	
232.2	450	842.0	
260.0	500	932.0	
315.6	600	1112.0	
317.0	700	1292.0	

**REFERENCE TABLES**  
**TOLERANCES**  
**TOLERANCE TABLES - ROUND BARS (+Nil/Minus)**

SIZE	3MM	6MM	10MM	18MM	30MM
H5	-0.005mm	-0.005mm	-0.006mm	-0.008mm	-0.009mm
H6	-0.007mm	-0.008mm	-0.009mm	-0.011mm -0.0004"	-0.013mm -0.0005"
H7	-0.009mm	-0.012mm -0.0005"	-0.016mm -0.0006"	-0.018mm -0.0007"	-0.021mm -0.0008"
H8	-0.014mm -0.0006"	-0.018mm -0.0007"	-0.022mm -0.0008"	-0.027mm -0.0011"	-0.033mm -0.0013"
H9	-0.025mm -0.0010"	-0.030mm -0.0012"	-0.036mm -0.0014"	-0.043mm -0.0017"	-0.052mm -0.0020"
H10	-0.040" -0.0015"	-0.048mm -0.0019"	-0.058mm -0.0023"	-0.070mm -0.0028"	-0.084mm -0.0033"
H11	-0.060mm -0.0023"	-0.075mm -0.0030"	-0.090mm -0.0036"	-0.110mm -0.0044"	-0.130mm -0.0050"
SIZE	50MM	80MM	120MM	180MM	250MM
H5	-0.011mm -0.0004"	-0.013mm -0.0005"	-0.015mm -0.0006"	-0.019mm -0.0007"	-0.020mm -0.0008"
H6	-0.016mm -0.0006"	-0.019mm -0.0007"	-0.022mm -0.0009"	-0.025mm -0.0010"	-0.029mm -0.0011"
H7	-0.025mm -0.0010"	-0.030mm -0.0012"	-0.035mm -0.0014"	-0.040mm -0.0016"	-0.046mm -0.0018"
H8	-0.039mm -0.0015"	-0.046mm -0.0018"	-0.054mm -0.0021"	-0.063mm -0.0025"	-0.072mm -0.0028"
H9	-0.062mm -0.0024"	-0.074mm -0.0030"	-0.087mm -0.0034"	-0.100mm -0.0040"	-0.115mm -0.0045"
H10	-0.100mm -0.0040"	-0.120mm -0.0047"	-0.140mm -0.0055"	-0.160mm -0.0063"	-0.185mm -0.0073"
H11	-0.160mm -0.0063"	-0.190mm -0.0075"	-0.220mm -0.0087"	-0.250mm -0.0098"	-0.290mm -0.0114"
SIZE	315MM				
H5	-0.023mm -0.0009"				
H6	-0.032mm -0.0013"				
H7	-0.052mm -0.0020"				
H8	-0.081mm -0.0032"				
H9	-0.130mm -0.0051"				
H10	-0.210mm -0.0083"				
H11	-0.320mm -0.0126"				

NOTE: "K" Tolerance is above but plus Tolerance/Minus Nil.



M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX***

[180 Degree Bends – Tube](#)

[3A Fittings](#)

[3A Hexagonal Nut – 3A 13H](#)

[3A Plain Recessless Liner – 3A 14R](#)

[3A Plain Recessless Male – 3A 15R](#)

[3A Unions](#)

[45 Degree Bends – Tube](#)

[45 Degree Butt Weld Elbows – Pipe](#)

[45 Degree Tee – Tube](#)

[90 Degree Bends – Tube](#)

[90 Degree Butt Weld Elbows – Pipe](#)

[90 degree Elbow Female + Female - BSP](#)

[90 Degree Street Elbow Male & Female – BSP](#)

[Accessories – Tube](#)

[Acorn \(Dome\) Nut](#)

[Acting Double Three Piece Screwed Ball Valve with Actuator](#)

[Actuator Three Piece Screwed Ball Valve – Double Acting](#)

[Actuator Three Piece Screwed Ball Valve – Spring Return](#)

[Adaptor – BSM Female / BSP Male](#)

[Adaptor BSM Female / BSP Female](#)

[Adaptor BSM Male / BSP Female](#)

[Adaptor BSM Male / BSP Male](#)

[Allthread](#)

[Angle Ring – Tube](#)

[Angle Stainless Steel](#)

[ANSI & DIN Flange – Tube, Pipe, Blind](#)

[ANSI150 Flanged – Water Duo Check Valve](#)

[ANSI150 Flanged Gate Valve](#)

[ANSI150 Flanged Y Strainer](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[ANSI150 Two Piece Ball Valve – Flanged or Table D & E  
Anti Shell Ring](#)

[B/W End Caps – Pipe](#)

[Backing Flange Galvanised](#)

[Balustrade Examples](#)

[Ball Valve F/B Seal Kit – BSP](#)

[Ball Valve One Piece \(Reduced Bore\) – BSP](#)

[Ball Valve Three Piece Screwed with Actuator – Double Acting](#)

[Ball Valve Three Piece Screwed with Actuator – Spring Return](#)

[Ball Valve Three Piece \(Full Flow\) – BSP](#)

[Ball Valve Three Way – BSP](#)

[Ball Valve Three Way and T Port \(Reduced Bore\) – BSP](#)

[Ball Valve Two Piece – Flanged ANSI150 or Table D & E](#)

[Ball Valve Two Piece \(Full Flow\) – BSP](#)

[Bar Hexagon Stainless Steel](#)

[Bar Stainless Steel Flat](#)

[Bar Stainless Steel Round](#)

[Bar Stainless Steel Square](#)

[Barrel Nipple – BSP](#)

[Be Style M-Liner 14M – Wine Fittings](#)

[Be Style M-Male 15M – Wine Fittings](#)

[Be Style M-Nut 4 Slots 13MR – Wine Fittings](#)

[Belleville Washer](#)

[Bend – BSM Male and Female](#)

[Bend Dimensions](#)

[BENDS](#)

[Bends – Triclover](#)

[Bends 180 Degree – Tube](#)

[Bends 45 & 90 Degree – Lobster Back](#)

[Bends 45 Degree – Tube](#)

[Bends 90 Degree – Tube](#)

[Blank Caps – BSM](#)

[Blank Male – BSM](#)

[Blank Nut Hexagonal – RJT 13HBN](#)

[Blank Nut IDF – 13HBN](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Blanks Din](#)

[Blanks IDF -16](#)

[Blind Flange](#)

[Blind Table Flange](#)

[Bolt Hexagon Head](#)

[Bolt Square Neck – Cup Head](#)

[Bolt U](#)

[Bore Pipe - Flange](#)

[Bore Tube - Flange](#)

[Bossed Clamp – Tube](#)

[BSM](#)

[BSM Male](#)

[BSM Blank Caps](#)

[BSM EPDM O'Ring](#)

[BSM Female / BSP Female Adaptor](#)

[BSM Female / BSP Male Adaptor](#)

[BSM Fittings](#)

[BSM Liner 2RK65](#)

[BSM Male / BSP Female Adaptor](#)

[BSM Male / BSP Male Adaptor](#)

[BSM Male and Female Bend](#)

[BSM Male Blank](#)

[BSM Male Connector](#)

[BSM Spanner](#)

[BSM Union Parts](#)

[BSM Unions](#)

[BSP](#)

[BSP Ball Valve – One Piece \(Reduced Bore\)](#)

[BSP Ball Valve – Three Piece \(Full Flow\)](#)

[BSP Ball Valve – Three Way L and T Port \(Reduced Bore\)](#)

[BSP Ball Valve – Three Piece](#)

[BSP Ball Valve – Two Piece \(Full Flow\)](#)

[BSP Ball Valve F/B Seal Kit](#)

[BSP Barrel Nipples](#)

[BSP Check Spring Valve](#)

[BSP Check Swing Valve](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

[BSP Elbow 90 degree Female + Female](#)

[BSP Equal Tee](#)

[BSP Female / BSM Female Adaptor](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[BSP Female / BSM Male Adaptor](#)  
[BSP Female / Camlock Female](#)  
[BSP Female / Camlock Male](#)  
[BSP Female Hose Fittings](#)  
[BSP Gate Valve](#)  
[BSP Globe Valve](#)  
[BSP Hex Cap](#)  
[BSP Hex Nipple](#)  
[BSP Hex Plug](#)  
[BSP Hose Tail Male](#)  
[BSP Hose Fittings – Female](#)  
[BSP Lock Nut](#)  
[BSP Male / BSM Female Adaptor](#)  
[BSP Male / BSM Male Adaptor](#)  
[BSP Nipple – Barrel](#)  
[BSP Nipple – Parallel](#)  
[BSP Nut - Lock](#)  
[BSP Parts](#)  
[BSP Socket](#)  
[BSP Street Elbow 90 Degree Male & Female](#)  
[BSP Threaded Flange](#)  
[BSP Three Way Ball Valve](#)  
[BSP Three Way Ball Valve and T Port](#)  
[BSP Y Strainer](#)  
[Bulk Head Union – Compression Fitting](#)  
[Buna Gasket – Camlock](#)  
[Bush Hex / Nipple Reducing – BSP](#)  
[Butterfly Valves](#)  
[Butt Hinge](#)  
[Butt Weld Elbow 45 Degree – Pipe](#)  
[Butt Weld Elbow 90 Degree – Pipe](#)  
[Butt Weld Equal Tee – Pipe](#)  
[Button Head – Post Socket Screw \(Security Screw\)](#)  
[Button Head Socket Screw](#)

[Camlock Buna Gasket](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

[Camlock Dust Cap](#)

[Camlock Female / BSP Female](#)

[Camlock Fittings](#)

[Camlock Male / BSP Female](#)

[Camlock Male B/W](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Camlocks](#)

[Cap - Tube](#)

[Cap Dust Camlock](#)

[Cap End – Tube](#)

[Cap Hex– BSP](#)

[Cap Screw Socket Head](#)

[Caps – Tube](#)

[Caps Blank – BSM](#)

[Caps End B/W – Pipe](#)

[Ceiling Plate – Tube](#)

[Check Spring Valve – BSP](#)

[Check Swing Valve – BSP](#)

[Check Valve Water Duo – Flanged ANSI150](#)

[Chrome Molybdenum Steel Hexagon Socket Key](#)

[CIP Welding Liner CIP – 14](#)

[CIP Welding Male – CIP15](#)

[Circlip External](#)

[Circlip Internal](#)

[Clamp Bossed – Tube](#)

[Clamp Double Bolted– Tube](#)

[Clamp Heavy Duty Single Pin 13MHH](#)

[Clamp Hinge – Tube](#)

[Clamp Hose – Tube](#)

[Clamp Interlocking – Tube](#)

[Clamp Plain – Tube](#)

[Clamp Saddle – Tube](#)

[Clamp Tang– Tube](#)

[Clamp Triclover 13MHP High Pressure - Clamp with Screw Bolt Brass Nut](#)

[Clamp with Screw Bolt Brass Nut \( 13MHP High Pressure\) Triclover clamp](#)

[Clip E](#)

[Coach Screw – Hexagon Head](#)

[Coil Spiral Spring Pin](#)

[Compression Fitting – Bulk Head Union](#)



M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Compression Fitting – Cross Union](#)

[Compression Fitting – Female Connector](#)

[Compression Fitting – Female Elbow](#)

[Compression Fitting – Male Connector](#)

[Compression Fitting – Male Elbow](#)

[Compression Fitting – Straight Connector](#)

[Compression Fitting – Tee Union](#)

[Compression Fitting – Union Elbow](#)

[Compression Fitting – Union Reducing](#)

[Concentric Reducer – Pipe](#)

[Concentric Reducers – Tube](#)

[Connector Female – Compression Fitting](#)

[Connector Male – BSM](#)

[Connector Male – Compression Fitting](#)

[Connector Straight– Compression Fitting](#)

[Countersunk Socket Screw](#)

[Crinkle Washer](#)

[Cross – Tube](#)

[Cross Tube – Pulled](#)

[Cross Union – Compression Fitting](#)

[Cup Head Square Neck Bolt](#)

[Cup Washer](#)

[Diaphragm Valve – Weir Type](#)

[Diaphragm Valve– Full Flow](#)

[Dimensions – Bends](#)

[DIN](#)

[DIN & ANSI Flange – Tube, Pipe, Blind](#)

[Din Blanks](#)

[DIN Fittings](#)

[DIN IDF RJT Fittings](#)

[DIN Imperial Welding Liner](#)

[DIN Imperial Welding Male](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[DIN Round Nut 4Slots DIN – 13R](#)

[DIN Seal Ring \(EPDN\)](#)

[Disc End – Tube](#)

[Disc End Jacket – Tube](#)

[Diverting Valve Three Way Rotary](#)

[Dome \(Acorn\) Nut](#)

[Double Acting Three Piece Screwed Ball Valve with Actuator](#)

[Double Bolted Clamp – Tube](#)

[Double Rolled Hosetail - Tube](#)

[Dust Cap Camlock](#)

[E Clip](#)

[Eccentric Reducer – Pipe](#)

[Eccentric Reducers – Tube](#)

[Elbow 90 degree Female + Female - BSP](#)

[Elbow Female – Compression Fitting](#)

[Elbow Male – Compression Fitting](#)

[Elbow Street 90 Degree Male & Female – BSP](#)

[Elbow Union– Compression Fitting](#)

[Elbows 45 Degree Butt Weld – Pipe](#)

[Elbows 90 Degree Butt Weld – Pipe](#)

[End Cap - Tube](#)

[End Caps B/W – Pipe](#)

[End Disc – Tube](#)

[End Disc Jacket – Tube](#)

[End Stub / Vanstone – Tube](#)

[Engineer Studs](#)

[EPDM Flange Gasket](#)

[EPDM O'Ring – BSM](#)

[EPDM Ring Seal – RJT](#)

[EPDM Seal Ring L Type \(also Silicon\) – SMS](#)

[EPDN Seal Ring – DIN](#)

[Equal Tee – BSP](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Equal Tee Butt Weld - Pipe](#)

[Expanding Liner – RJT 14R](#)

[Expanding Male – RJT 15R](#)

[Expansion Joint Short](#)

[Extended Leg Ferrule 28.5mm – Triclover](#)

[Extended Legs – Triclover](#)

[External Circlip](#)

[External Tooth Lock Washer](#)

### **FASTENERS**

[Female & Male Street Elbow 90 Degree – BSP](#)

[Female + Female Elbow 90 degree - BSP](#)

[Female and Male Bend – BSM](#)

[Female BSM / Female BSP Adaptor](#)

[Female BSM / Male BSP Adaptor](#)

[Female BSP / BSM Female Adaptor](#)

[Female BSP / Female Camlock](#)

[Female BSP / Male BSM Adaptor](#)

[Female BSP / Male Camlock](#)

[Female Camlock / Female BSP](#)

[Female Connector – Compression Fitting](#)

[Female Elbow – Compression Fitting](#)

[Female Hose Fittings – BSP](#)

[Ferrule – Triclover](#)

[Ferrule Extended Leg 28.5mm – Triclover](#)

[Ferrule Standard 12.5mm – Triclover](#)

[Ferrule Welding](#)

[Fitting Compression – Bulk Head Union](#)

[Fitting Compression – Cross Union](#)

[Fitting Compression – Female Connector](#)

[Fitting Compression – Female Elbow](#)

[Fitting Compression – Male Connector](#)

[Fitting Compression – Male Elbow](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Fitting Compression – Straight Connector](#)

[Fitting Compression – Tee Union](#)

[Fitting Compression – Union Elbow](#)

[Fitting Compression – Union Reducing](#)

[Fittings – 3A](#)

[Fittings – BSM](#)

[Fittings – BSP Female Hose](#)

[Fittings – Camlock](#)

[Fittings – DIN](#)

[Fittings – IDF DIN RJT](#)

[Fittings – Triclover](#)

[Fittings Wine - Be Style M-Liner 14M](#)

[Fittings Wine - Be Style M-Nut 4 Slots 13MR](#)

[Fittings Wine – Be Style M-Male 15M](#)

[FLANGE](#)

[Flange](#)

[Flange Blind Table](#)

[Flange DIN & ANSI – Tube, Pipe, Blind](#)

[Flange Galvanised Backing](#)

[Flange Gasket EPDM](#)

[Flange Metric](#)

[Flange Pipe Bore – 316 Stainless](#)

[Flange Table – Tube or Pipe](#)

[Flange Tube Bore – 316 Stainless Steel](#)

[Flanged ANSI150 – Water Duo Check Valve](#)

[Flanged ANSI150 Gate Valve](#)

[Flanged ANSI150 Two Piece Ball Valve – or Table D & E](#)

[Flanged ANSI150 Y Strainer](#)

[Flanges Imperial](#)

[Flat Bar Stainless Steel](#)

[Flat Faced Union](#)

[Flat Head Nails \(Annular Rings\)](#)

[Flat Round Washer](#)

[Full Flow Ball Valve two piece \(BSP\)](#)

[Full Flow Three Piece Ball Valve \(BSP\)](#)

[Full Flow Diaphragm Valve](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Galvanised Backing Flange](#)

[Gasket Buna – Camlock](#)

[Gasket Flange EPDM](#)

[Gate Valve – BSP](#)

[Gate Valve – Flanged ANSI150](#)

[Glass Lense Sight – Spare](#)

[Glenloch Nut](#)

[Glenloch Skew Proof Rolled Wave Spring Pin](#)

[Globe Valve – BSP](#)

[Grub Screw – Socket Head](#)

[Head Button – Socket Screw](#)

[Head Cup – Square Neck Bolt](#)

[Head Flat Nails \(Annular Rings\)](#)

[Head Hexagon – Coach Screw](#)

[Head Hexagon – Set Screw](#)

[Head Hexagon Bolt](#)

[Head Post Button – Socket Screw \(Security Screw\)](#)

[Head Socket – Set Screw \(Grub\)](#)

[Head Socket Cap Screw](#)

[Heavy Duty Single Pin Clamp 13MHH](#)

[Hex Bush / Nipple Reducing – BSP](#)

[Hex Cap – BSP](#)

[Hex Nipple – BSP](#)

[Hex Plug – BSP](#)

[Hex Socket Pressure Plug](#)

[Hexagon Head Bolt](#)

[Hexagon Head Coach Screw](#)

[Hexagon Head Set Screw](#)

[Hexagon Nut](#)

[Hexagon Nut – Left Hand Thread](#)

[Hexagon Stainless Steel Bar](#)

[Hexagon Steel Chrome Molybdenum Socket Key](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Hexagonal Blank Nut – RJT 13HBN](#)

[Hexagonal Nut – 3A 13H](#)

[Hexagonal Nut – IDF 13H](#)

[Hexagonal Nut – RJT 13H](#)

[Hexagonal Nut RJT 13H](#)

[High Pressure Triclover Clamp 13MHP](#)

[Hinge Butt](#)

[Hinge Clamp – Tube](#)

[Hinge Piano](#)

[Hose Clamp – Tube](#)

[Hose Fittings – BSP Female](#)

[Hose Tail Male – BSP](#)

[Hosetail Rolled – Tube \(Single & Double\)](#)

[Hosetail Rolled Tube](#)

[Hump Back Split Pin](#)

[IDF Blank Nut – 13HBN](#)

[IDF Blanks IDF -16](#)

[IDF DIN RJT Fittings](#)

[IDF Hexagonal Nut IDF 13H](#)

[IDF Round Nut – IDF 13R](#)

[IDF Welding Liner – IDF 14](#)

[Imperial Flanges](#)

[Imperial Welding Liner – DIN](#)

[Imperial Welding Male – DIN](#)

[Inline Strainer](#)

[Insert Nylon – Lock Nut](#)

[Insert Nylon – Lock Nut – Thin Type](#)

[Interlocking Clamp– Tube](#)

[Internal Circlip](#)

[Internal Tooth Lock Washer](#)

[Jacket End Disc – Tube](#)

[Joint Short Expansion](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: sales@msstainless.com.au

## ***INDEX CONTINUED***

### Joists Expansion

Key Socket – Chrome Molybdenum Steel Hexagon

Kit Seal Ball Valve F/B – BSP

L & T Port Three Way Ball Valve - BSP

L Type Seal Ring (EPDM, Silicon) – SMS

Left Hand Thread – Hexagon Nut

Lense Sight Glass – Spare

Liner – BSM

Liner Expanding – RJT 14R

Liner Plain Recessless – 3A 14R

Liner Welding – CIP 14

Liner Welding – DIN Imperial

Liner Welding RJT 14

Liner Welding– IDF 14

Lobster Back Bends 45 & 90 Degree

Lock Nut - BSP

Lock Nut

Lock Nut – Nylon Insert

Lock Nut – Thin Type – Nylon Insert

Lock Washer External Tooth

Lock Washer Internal Tooth

Long Welding Liner – SMS 14

M-Liner Be Style 14M – Wine Fittings

M-Nut Be Style 4 Slots 13MR – Wine Fittings

Male & Female Street Elbow 90 Degree – BSP

Male – BSM

Male and Female Bend – BSM

Male Be Style M-Male 15M – Wine Fittings

Male Blank – BSM

Male BSM / Female BSP Adaptor

Male BSM / Male BSP Adaptor

Male BSP / Male BSM Adaptor

Male Hose Tail – BSP



M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Male Camlock / Female BSP](#)

[Male Camlock B/W](#)

[Male Connector – BSM](#)

[Male Connector – Compression Fitting](#)

[Male Elbow – Compression Fitting](#)

[Male Expanding – RJT 15R](#)

[Male Plain Recessless – 3A 15R](#)

[Male Welding – DIN Imperial](#)

[Male Welding – SMS 15](#)

[Male Welding CIP 15](#)

[Male Welding RJT 15](#)

[MESH](#)

[Metric Flange](#)

[Miscellaneous](#)

[Nails Flat Head \(Annular Rings\)](#)

[Neck Flange - Raised](#)

[Needle Valve – NPT](#)

[Nipple Barrel - BSP](#)

[Nipple Hex – BSP](#)

[Nipple Parallel - BSP](#)

[Nipple Reducing Hex / Bush– BSP](#)

[Non Return Valve](#)

[NPT Needle Valve](#)

[Nut 6 Slots – SMS 13R](#)

[Nut Acorn \(Dome\)](#)

[Nut Blank Hexagonal – RJT 13HBN](#)

[Nut Blank IDF – 13HBN](#)

[Nut Glenlock](#)

[Nut Hexagon](#)

[Nut Hexagon – Left Hand Thread](#)

[Nut Hexagonal – 3A 13H](#)

[Nut Hexagonal – IDF 13H](#)

[Nut Hexagonal RJT – 13H](#)

[Nut Hexagonal RJT 13H](#)

[Nut Lock](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

[Nut Lock – Nylon Insert](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Nut Lock – Nylon Insert – Thin Type](#)

[Nut Round – IDF 13R](#)

[Nut Round – RJT 13R](#)

[Nut Round 4Slots DIN – 13R](#)

[Nut Weld](#)

[Nut Wing](#)

[Nylon Insert Lock Nut](#)

[Nylon Insert Lock Nut – Thin Type](#)

[O’Ring EPDM – BSM](#)

[One Piece Ball Valve \(Reduced Bore\) – BSP](#)

[Parallel Nipple - BSP](#)

[Parts – BSP](#)

[Pattern Sheet](#)

[Piano Hinge](#)

[Pin Rolled Spring](#)

[Pin Split](#)

[Pin Split – Hump Back](#)

[Pin Spring – Spiral Coil](#)

[Pin Spring Rolled Wave – Skew Proof – Glenloch](#)

[PIPE](#)

[Pipe Elbows 45 Degree Butt Weld](#)

[Pipe Elbows 90 Degree Butt Weld](#)

[Pipe End Caps B/W](#)

[Pipe Bore Flange](#)

[Pipe or Tube – Table Flange](#)

[Pipe Reducer – Concentric](#)

[Pipe Reducer – Eccentric](#)

[Plain Clamp – Tube](#)

[Plain Recessless Liner – 3A 14R](#)

[Plain Recessless Male – 3A 15R](#)

[Plate Ceiling – Tube](#)

[Plug Hex– BSP](#)

[Post Button Head Socket Screw \(Security Screw\)](#)

[Pressure Plug – Hex Socket](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Pulled Cross – Tube](#)

[Pulled Tee – Tube](#)

[Pulled Tee – Tube](#)

[Raised Neck Flange](#)

[Recessless Liner Plain – 3A 14R](#)

[Recessless Male Plain – 3A 15R](#)

[Rectangle Tube](#)

[Reduced Bore One Piece Ball Valve \(BSP\)](#)

[Reducer Concentric – Pipe](#)

[Reducer Eccentric – Pipe](#)

[Reducers – Tube](#)

[Reducers Concentric – Tube](#)

[Reducers Eccentric – Tube](#)

[Reducing Hex Bush / Nipple – BSP](#)

[Reducing Union – Compression Fitting](#)

[Reduction Tee – Tube](#)

[Reduction Tee – Tube](#)

[Return Spring Three Piece Screwed Ball Valve with Actuator](#)

[Ring Angle– Tube](#)

[Ring Anti Shell](#)

[Ring Seal](#)

[Ring Seal – RJT \(EPDM, Silicon, Viton\)](#)

[Ring Seal \(EPDN\) – DIN](#)

[Ring Seal L Type \(EPDM, Silicon\) – SMS](#)

[RJT Expanding Liner – RJT 14R](#)

[RJT Expanding Male – RJT 15R](#)

[RJT Fittings](#)

[RJT Hexagonal Blank Nut – RJT 13HBN](#)

[RJT Hexagonal Nut RJT – 13H](#)

[RJT Hexagonal Nut RJT 13H](#)

[RJT Round Nut – RJT 13R](#)

[RJT Seal Ring \(EPDM, Silicon, Viton\)](#)

[RJT Welding Liner RJT 14](#)

[RJT Welding Male RJT 15](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Rolled Spring Pin](#)

[Rolled Wave Spring Pin – Skew Proof – Glenloch](#)

[Rotary Diverting Valve – Three Way](#)

[Round Bar Stainless Steel](#)

[Round Nut – IDF 13R](#)

[Round Nut – RJT 13R](#)

[Round Nut 4Slots DIN – 13R](#)

[Round Tube](#)

[Round Washer Flat](#)

[Saddle Clamp– Tube](#)

[Screw Cap Socket Head](#)

[Screw Coach – Hexagon Head](#)

[Screw Countersunk Socket](#)

[Screw Set – Hexagon Head](#)

[Screw Set \(Grub\) – Socket Head](#)

[Screw Socket – Post Button Head \(Security Screw\)](#)

[Screw Socket Button Head](#)

[Screwed Ball Valve Three Piece with Actuator – Double Acting](#)

[Screwed Ball Valve Three Piece with Actuator – Spring Return](#)

[Seal Kit Ball Valve F/B – BSP](#)

[Seal Ring](#)

[Seal Ring – RJT \(EPDM, Silicon, Viton\)](#)

[Seal Ring \(EPDM\) – DIN](#)

[Seal Ring L Type \(EPDM, Silicon\) – SMS](#)

[Security Screw – Post Button Head Socket Screw](#)

[Set Screw – Hexagon Head](#)

[Set Screw \(Grub\) – Socket Head](#)

[Shell Ring – Anti](#)

[Sheet](#)

[Sheet Pattern](#)

[Short Expansion Joint](#)

[Sight Glass Lense – Spare](#)

[Silicon Ring Seal – RJT](#)

[Silicon Seal Ring L Type \(also EPDM\) – SMS](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Single Pin Clamp Heavy Duty 13MHH](#)  
[Single Rolled Hosetail – Tube](#)  
[Skew Proof Rolled Wave Spring Pin – Glenloch](#)  
[Slotted M-Nut 4 Slots Be Style 13MR – Wine Fittings](#)  
[Slotted Nut 6 Slots – SMS 13R](#)  
[SMS Long Welding Liner – SMS 14](#)  
[SMS Nut 6 Slots – SMS 13R](#)  
[SMS Seal Ring L Type \(EPDM, Silicon\)](#)  
[SMS Welding Male – SMS 15](#)  
[Socket – BSP](#)  
[Socket Head Cap Screw](#)  
[Socket Head Set Screw \(Grub\)](#)  
[Socket Hex – Pressure Plug](#)  
[Socket Key – Chrome Molybdenum Steel Hexagon](#)  
[Socket Screw – Post Button Head \(Security Screw\)](#)  
[Socket Screw Button Head](#)  
[Socket Screw Countersunk](#)  
[Spare Sight Glass Lense](#)  
[Spiral Coil Spring Pin](#)  
[Split Pin](#)  
[Split Pin – Hump Back](#)  
[Spring Check Valve – BSP](#)  
[Spring Pin – Spiral Coil](#)  
[Spring Pin Rolled](#)  
[Spring Pin Rolled Wave – Skew Proof – Glenloch](#)  
[Spring Return Three Piece Screwed Ball Valve with Actuator](#)  
[Spring Washer](#)  
[Square Neck Bolt – Cup Head](#)  
[Square Bar Stainless Steel](#)  
[Square Tube](#)  
[Stainless Steel Angle](#)  
[Stainless Steel Flat Bar](#)  
[Stainless Steel Hexagon Bar](#)  
[Stainless Steel Round Bar](#)  
[Stainless Steel Square Bar](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Standard Ferrule 12.5mm – Triclover](#)

[Steel Stainless Angle](#)

[Steel Stainless Flat Bar](#)

[Steel Stainless Hexagon Bar](#)

[Steel Stainless Round Bar](#)

[Straight Connector – Compression Fitting](#)

[Strainer Inline](#)

[Strainer Type Y](#)

[Strainer Union](#)

[Strainer Y – BSP](#)

[Strainer Y – Flanged ANSI150](#)

[Strainers](#)

[Street Elbow 90 Degree Male & Female – BSP](#)

[Stub End / Vanstone – Tube](#)

[Stud Engineer](#)

[Sweep Tee – Tube](#)

[Sweep Tee – Tube](#)

[Swing Check Valve – BSP](#)

[T & L Port Three Way Ball Valve \(Reduced Bore\) – BSP](#)

[Table D & E Two Piece Ball Valve – or Flanged ANSI150](#)

[Table Flange – blind](#)

[Table Flange – Tube or Pipe](#)

[Tail Male Hose– BSP](#)

[Tang Clamp – Tube](#)

[Tee – Reduction](#)

[Tee – Sweep Tube](#)

[Tee – Triclover](#)

[Tee – Tube](#)

[Tee – Tube 45 Degree](#)

[Tee Equal – BSP](#)

[Tee Equal Butt Weld – Pipe](#)

[Tee Pulled – Tube](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Tee Pulled– Tube](#)

[Tee Reduction – Tube](#)

[Tee Sweep – Tube](#)

[Tee Tube](#)

[Tee Union – Compression Fitting](#)

[Threaded Flange - BSP](#)

[Three Piece Ball Valve \(Full Flow\) – BSP](#)

[Three Piece Screwed Ball Valve with Actuator – Double Acting](#)

[Three Piece Screwed Ball Valve with Actuator – Spring Return](#)

[Three Way Ball Valve – BSP](#)

[Three Way Ball Valve L and T Port \(Reduced Bore\) – BSP](#)

[Three Way Rotary Diverting Valve](#)

[Tooth External Lock Washer](#)

[Tooth Internal Lock Washer](#)

[Triclover](#)

[Triclover clamp – Clamp with Screw Bolt Brass Nut \( 13MHP High Pressure\)](#)

[Triclover Ferrule and Extended Legs](#)

[Triclover Ferrule Extended Leg 28.5mm](#)

[Triclover Fittings](#)

[Triclover Stanard Ferrule 12.5mm](#)

[Triclover Tee and Bends](#)

[Tube – 45 Degree Tee](#)

[Tube – Cross](#)

[Tube – Cross Pulled](#)

[Tube – End Cap](#)

[Tube – Hosetail Rolled Single & Double](#)

[Tube – Pulled Cross](#)

[Tube – Pulled Tee](#)

[Tube – Reduction Tee](#)

[Tube – Sweep Tee](#)

[Tube – Tee](#)

[Tube – Y Piece](#)

[Tube – Y Piece 316](#)

[Tube Accessories](#)



M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Tube Bends 180 Degree](#)

[Tube Bends 45 Degrees](#)

[Tube Bends 90 Degree](#)

[Tube Bore Flange](#)

[Tube Cap](#)

[Tube Caps](#)

[Tube Clamp – Double Bolted](#)

[Tube Clamp – Hinge](#)

[Tube Clamp – Tang](#)

[Tube Clamp Plain](#)

[Tube Clamp– Bossed](#)

[Tube Clamp– Hose](#)

[Tube Clamp– Interlocking](#)

[Tube Clamp– Saddle](#)

[Tube or Pipe – Table Flange](#)

[Tube Rectangle](#)

[Tube Reducer – Concentric](#)

[Tube Reducer – Eccentric](#)

[Tube Round](#)

[Tube Square](#)

[Tube Tee](#)

[Tube Tee– Sweep](#)

[Tube– Angle Ring](#)

[Tube– Ceiling Plate](#)

[Tube– End Disc](#)

[Tube– Jacket End Disc](#)

[Tube– Pulled Tee](#)

[Tube– Stub End / Vanstone](#)

[TUBES](#)

[Two Piece Ball Valve \(Full Flow\) – BSP](#)

[Two Piece Ball Valve – Flanged ANSI150 or Table D & E](#)

[Type L Seal Ring \(EPDM, Silicon\) – SMS](#)

[Type Y Strainer](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[U Bolt](#)

[Union – Tee](#)

[Union Bulk Head – Compression Fitting](#)

[Union Cross – Compression Fitting](#)

[Union Elbow – Compression Fitting](#)

[Union Elbow – Compression Fitting](#)

[Union Flat Faced](#)

[Union Parts – BSM](#)

[Union Reducing – Compression Fitting](#)

[Union Strainer](#)

[Union Tee – Compression Fitting](#)

[Unions 3A](#)

[Unions BSM](#)

[Valve Ball F/B Seal Kit – BSP](#)

[Valve Ball Three Piece Screwed with Actuator – Double Acting](#)

[Valve Ball Three Piece Screwed with Actuator – Spring Return](#)

[Valve Ball Three Way – BSP](#)

[Valve Butterfly](#)

[Valve Check Spring – BSP](#)

[Valve Check Swing – BSP](#)

[Valve Check Water Duo – Flanged ANSI150](#)

[Valve Diaphragm – Full Flow](#)

[Valve Diaphragm – Weir Type](#)

[Valve Gate – BSP](#)

[Valve Gate – Flanged ANSI150](#)

[Valve Globe – BSP](#)

[Valve Needle – NPT](#)

[Valve Non Return](#)

[Valve One Piece Ball \(Reduced Bore\) – BSP](#)

[Valve Three Piece Ball \(Full Flow\) – BSP](#)

[Valve Three Way Ball L and T Port \(Reduced Bore\) – BSP](#)

[Valve Three Way Rotary Diverting](#)

[Valve Two Piece Ball – Flanged ANSI150 or Table D & E](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Valve Two Piece Ball \(Full Flow\) – BSP](#)

[Vanstone / Stub End – Tube](#)

[Viton Ring Seal – RJT](#)

[Washer Belleville](#)

[Washer Crinkle](#)

[Washer Cup](#)

[Washer Flat Round](#)

[Washer Lock External Tooth](#)

[Washer Lock Internal Tooth](#)

[Washer Spring](#)

[Water Duo Check Valve – Flanged ANSI150](#)

[Wave Rolled Spring Pin – Skew Proof – Glenloch](#)

[Way Three Rotary Diverting Valve](#)

[Weir Type Diaphragm Valve](#)

[Weld Butt – Pipe Equal Tee](#)

[Weld Butt Elbow 45 Degree – Pipe](#)

[Weld Butt Elbow 90 Degree – Pipe](#)

[Weld Nut](#)

[Welding Ferrule](#)

[Welding Liner – CIP 14](#)

[Welding Liner – DIN Imperial](#)

[Welding Liner – IDF 14](#)

[Welding Liner Long– SMS 14](#)

[Welding Liner RJT 14](#)

[Welding Male – DIN Imperial](#)

[Welding Male – SMS 15](#)

[Welding Male CIP 15](#)

[Welding Male RJT 15](#)

[Wine Fittings - Be Style M-Liner 14M](#)

[Wine Fittings - Be Style M-Nut 4 Slots 13MR](#)

[Wine Fittings – Be Style M-Male 15M](#)

[Wing Nut](#)

M & S Stainless Supplies

Contact Sales if the item you want is not shown.

Ph: (02) 9896 1799

Fax: (02) 9688 4645

Email: [sales@msstainless.com.au](mailto:sales@msstainless.com.au)

## ***INDEX CONTINUED***

[Y Piece 316 – Tube](#)

[Y Piece Tube](#)

[Y Strainer – BSP](#)

[Y Strainer – Flanged ANSI150](#)

[Y Type Strainer](#)