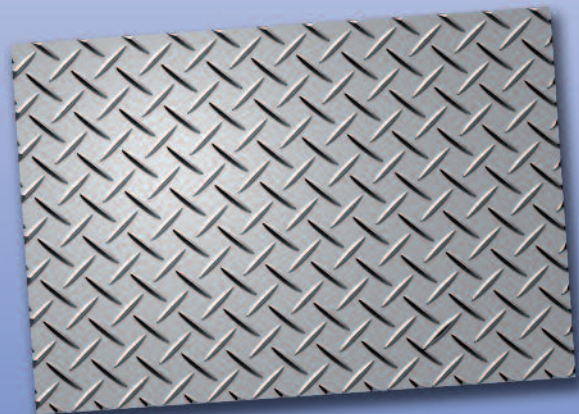


COMPLETE STAINLESS LTD

*In-house polishing of Round, Square and Rectangle Tube and Bar
In-house cutting facilities, including bar sawn blanks and mitre cuts
Large volume of Sheet, Plate, Box, Pipe, Fittings and Flanges*

Stainless Steel Specialists



Stainless Steel Stockholders and Polishers



URS is a member of Registrar of Standards (Holdings) Ltd.

COMPLETE STAINLESS LTD

Established in 2004 we are based in Cumbernauld and are specialist stockholders and polishers of Stainless Steel.

Our aim is to provide our customers with an unrivalled service from the first point of contact through to the on time delivery of their Stainless Steel. We treat all of our customers to the same high standards of service and quality.

We are quite unique in that we specialise in both the full range of Stainless Steel Sheet and Tube products. Most of our competitors tend to be strong on one or the other, creating the need for customers to have a supplier for their pipe fittings and flanges and another for their sheet, plate and bar etc. Our wide stock range coupled with our efficient in-house polishing and cutting service allows us to offer our customers a quality product at a very competitive price.

We are able to offer a full mechanical polish on Flat Bar up to 300mm wide, Round Bar from 12mm dia up to 50mm dia and Tube and Pipe from 12mm o/d up to 306mm o/d . We can also offer to cut to length bar and tube including mitre cuts.

We have invested in a fully computerised Stock Control System, ensuring that all material is fully traceable from the moment it arrives in our warehouse and passes through our QA system. All aspects of our operation are working to a strict criteria of ISO 9001: 2008. Full chemical and mechanical Test Certificates are available for all Stainless Steel items, at no extra charge. We deliver on our own transport.

Our sales staff have many years of Stainless Steel Stockholding experience and are dedicated to providing a fast friendly service and advice on the widest range of Stainless Steel products.

If you are looking for a specific item not listed in our brochure we will make every effort to source your requirements at the most competitive price.

about us

Index

SHEET and PLATE	1
WELDED WIRE MESH	2
OPEN GRID and TREAD PLATE	3
ANGLE BAR	4
UNEQUAL ANGLE BAR	5
FLAT BAR	6
ROUND BAR	7
SQUARE, HEX and HALF ROUND BAR	8
SQUARE BOX SECTION	9
RECTANGULAR BOX SECTION	10
HANDRAIL TUBE	11
DECORATIVE and ARCHITECTURAL TUBE	12
PERFORATED TUBE	13
 METRIC TRUE BORE RANGE	
TUBE	14
ELBOWS	15
REDUCERS	16
EQUAL T'S	17
END CAPS	18
COLLARS	19
BACKING FLANGES	20
PIPE CLIPS	21
 HYGIENIC RANGE	
TUBE, TEES, 90'S and REDUCERS	22
RJT UNIONS	23
SMS UNIONS	24
IDF UNIONS	25
TRI CLOVER CLAMP and DIN UNIONS	26
BUTTERFLY VALVES & BLANK LINERS	27
PIPE CLIPS	28
SPRAY BALLS	29
 NOMINAL BORE RANGE	
PIPE	31
90's, 45's	33
REDUCERS	34
EQUAL T'S	35
REDUCING TEES	36
STUB ENDS	37
BACKING FLANGES	38
END CAPS	39
BSP FITTINGS	40 - 45
NPT FITTINGS	46
SOCKET WELD FITTINGS	48
FLANGE TABLES	49

Stainless Steel Sheet and Plate

Complete Stainless carry a comprehensive range of sheet and plate for a wide range of industries. As well as the standard range of sheet detailed below we also stock customer specific sizes for various specialist markets such as catering equipment, shop fitting and white goods.



Standard Sheet sizes

thickness mm	kilos per sq mtr	kilos per 2000 x 1000	kilos per 2500 x 1250	kilos per 3000 x 1500
0.5	4	8	12.5	
0.6	4.8	9.6	15	
0.7	5.6	11.2	17.5	
0.9	7.2	14.4	22.5	33.75
1.2	9.6	19.2	30	43.2
1.5	12	24	37.5	54
2.0	16	32	50	72
2.5	20	40	62.5	90
3.0	24	48	75	108

Standard Sheet Grades

4003	1.4003
430	1.4016
304	1.4301
316	1.4404

Standard Sheet Surface Finishes

2B	Cold Rolled Mill Finish
BA	Bright Annealed: partially reflective
DP	Dull Polished
CP	Circle Polished
BP	Bright Polished: reflective finish

Standard Plate Sizes CPP

thickness mm	kilos per sq mtr	kilos per 2000 x 1000	kilos per 2500 x 1250	kilos per 3000 x 1500
3.0	24	48	75	108
4.0	32	64	100	144
5.0	40	80	125	180
6.0	48	96	150	216
8.0	64	128	200	288
10.0	80	160	250	360
12.0	96	192	300	432

Standard plate Grades

304	1.4301
316	1.4404

Standard Plate Surface Finishes

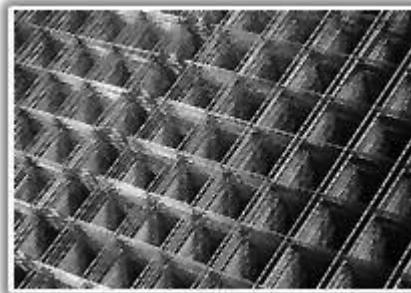
2B	Cold Rolled Mill Finish
HR	Hot Rolled Descaled

Please note that we can supply Quarto Plate from 12mm up to 50mm thick please ask for available sizes. We can also supply **profiled plate: Plasma, Laser and WaterJet Cut.**

Stainless Steel Welded Wire Mesh

If you cannot see your exact requirement listed please ask sales if its possible to manufacture.

We can also supply edging section.



MESH SIZES AVAILABLE IN ROLLS			In Rolls
1/4' x 1/4' x 0.80mm	(21g)	Type 304	48" wide x 100 feet or cut to length
8mm x 8mm x 1.00mm	(19g)	Type 304	48" wide x 100 feet or cut to length
1/2" x 1/2" x 1.00mm	(19g)	Type 304	48" wide x 100 feet or cut to length
1/2" x 1/2" x 1.20mm	(18g)	Type 304	1 metre wide x 100 feet or cut to length
1/2" x 1/2" x 1.60mm	(16g)	Type 304	40" wide x 100 feet or cut to length
1/2" x 1/2" x 1.60mm	(16g)	Type 304	48" wide x 100 feet or cut to length
1/2" x 1/2" x 1.60mm	(16g)	Type 316	48" wide x 100 feet or cut to length
1" x 1" x 1.60mm	(16g)	Type 304	48" wide x 100 feet or cut to length

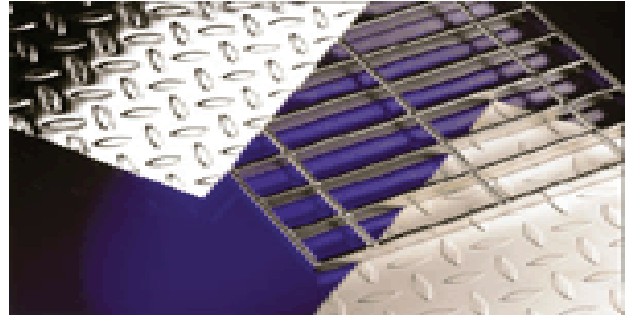
IMPERIAL SIZE PANELS			6' x 3'	8' x 4'	10' x 5'
1/2" x 1/2" x 1.60mm	(16g)	Type 304		*	
1/2" x 1/2" x 2.50mm	(12g)	Type 304		*	
1/2" x 1/2" x 3.00mm	(10g)	Type 304	*	*	
1" x 1" x 1.60mm	(16g)	Type 304		*	
1" x 1" x 2.50mm	(12g)	Type 304	*	*	*
1" x 1" x 3.00mm	(10g)	Type 304	*	*	*
1" x 1" x 3.00mm	(10g)	Type 316		*	
1 1/2" x 1 1/2" x 2.50mm	(12g)	Type 304		*	
1 1/2" x 1 1/2" x 3.00mm	(10g)	Type 304		*	
2" x 2" x 2.50mm	(12g)	Type 304	*	*	*
2" x 2" x 3.00mm	(10g)	Type 304	*	*	*
2" x 2" x 3.00mm	(10g)	Type 316		*	
3" x 1/2" x 2.50mm	(12g)	Type 304	*	*	
3" x 1/2" x 3.00mm	(10g)	Type 304	*	*	
3" x 1" x 3.00mm	(10g)	Type 304		*	
3" x 3" x 2.50mm	(12g)	Type 304		*	
3" x 3" x 3.00mm	(10g)	Type 304		*	

METRIC SIZE PANELS			2MX 1M	2.5X 1.25	3M X 1.5M
25 x 25 x 2.5mm	(12g)	Type 304	*	*	*
25 x 25 x 3.0mm	(10g)	Type 304	*	*	*
50 x 50 x 2.5mm	(12g)	Type 304	*	*	*
50 x 50 x 3.0mm	(10g)	Type 304	*	*	*

Stainless Steel Flooring

There are 2 main types of Stainless Steel Flooring: Tread Plate and Open Grid

Both are available in grades:
304 and 316



Tread Plate

Cold pressed (CP) or Hot Rolled (HR)

Standard length plates 3000mm, available on some thicknesses 2000mm and 2500mm

The standard surface finish is Mill Finish can be Bead Blasted or Electropolished

	Base thickness						
	1mm	2mm	3mm	4.5mm	6mm	8mm	10mm
1000mm wide	(CP)	(CP)	(CP) (HR)	(HR)	(HR)	(HR)	(HR)
1250mm wide	(CP)	(CP)	(CP) (HR)	(HR)	(HR)	(HR)	(HR)
weight per square metre	8.2	16.4	26.7	38.7	50.7	66.7	82.7

Open Grid Flooring

load bearing bars	25mm x 3mm	Flat Bar
At 41mm Centres	25mm x 5mm	Flat Bar

Transverse Bars	10mm x 3mm Flat Bar
	6mm Dia Solid Round Bar
At 100mm Centres	6mm Reinforcing Bar

Standard Panels: 838mm x 838mm, 1000mm x 989mm and the largest 6000mm x 1000mm

If none of the standard load bearing, transverse bars or panel sizes listed above are suitable we can have grids made to your exact requirements.

Stainless Steel Angle Bar

We can offer a full range of standard Hot Rolled angle bars random lengths are normally 6mtrs. We can also offer to polish the external faces and edges in house.

If you cannot find the size of angle you are looking for listed below we can offer a much wider range of sizes in Cold Formed from plate, normally the maximum length available is 3m some occasions 4mtrs is possible.

GRADES AVAILABLE: 304 and 316



size mm	weight per metre
20x20x3	0.89
25x25x3	1.13
30x30x3	1.38
40x40x3	1.85
50x50x3	2.38
25x25x5	1.77
30x30x5	2.17
40x40x5	2.98
50x50x5	3.79
65x65x5	5.03
25x25x6	2.32
30x30x6	2.61
40x40x6	3.49
50x50x6	4.46
60x60x6	5.42
65x65x6	5.95
70x70x6	6.42
75x75x6	6.89
80x80x6	7.37
100x100x6	9.21
110x110x6	10.30
120x120x6	11.20
130x130x6	12.20
150x150x6	13.90

size mm	weight per metre
50x50x8	5.82
60x60x8	7.09
65x65x8	8.13
75x75x8	9.38
100x100x8	12.50
50x50x10	7.50
60x60x10	8.64
65x65x10	9.75
70x70x10	10.30
75x75x10	11.25
80x80x10	12.00
100x100x10	15.00
110x110x10	16.60
120x120x10	18.10
130x130x10	20.00
150x150x10	22.90
100x100x12	17.80
200x200x13	40.20

Stainless Unequal Angle Bar

We can polish please ask sales for details.

If you cannot find the size of angle you are looking for listed below we can offer a much wider range of sizes in Cold Formed from plate, normally the maximum length available is 3m some occasions 4mtrs are possible.

Standard Angle Length 6mtrs



GRADES AVAILABLE: 304 and 316

size mm	weight per metre
20 x 10 x 3	0.71
25 x 15 x 3	0.89
30 x 15 x 3	1.01
30 x 20 x 3	1.12
30 x 20 x 4	1.50
40 x 20 x 3	1.36
40 x 20 x 4	1.80
40 x 25 x 4	1.95
40 x 30 x 4	2.10
40 x 30 x 5	2.55
45 x 30 x 3	1.73
45 x 30 x 3	2.27
45 x 30 x 5	2.79
50 x 20 x 4	2.11
50 x 25 x 3	1.73
50 x 25 x 4	2.23
50 x 30 x 3	1.85
50 x 30 x 4	2.43
50 x 30 x 5	2.95
50 x 40 x 5	3.50
60 x 30 x 5	3.37
60 x 30 x 6	4.03
60 x 30 x 7	4.50
60 x 40 x 5	3.73
60 x 40 x 6	4.40
60 x 40 x 8	5.82
65 x 40 x 7	5.49
65 x 40 x 5	4.35
70 x 50 x 6	5.30

size mm	weight per metre
75 x 50 x 6	5.71
75 x 50 x 7	6.50
80 x 40 x 6	5.41
80 x 40 x 8	7.04
80 x 65 x 6	6.60
80 x 65 x 8	8.70
80 x 65 x 10	10.70
90 x 60 x 6	6.90
90 x 60 x 8	9.00
90 x 75 x 7	8.70
90 x 75 x 9	11.20
100 x 50 x 6	6.80
100 x 50 x 8	8.99
100 x 50 x 10	11.10
100 x 65 x 6	7.66
100 x 65 x 8	9.84
100 x 65 x 10	12.30
100 x 75 x 8	10.70
100 x 75 x 10	13.10
120 x 80 x 8	12.20
120 x 80 x 10	14.90
130 x 65 x 8	11.74
130 x 65 x 10	14.60
130 x 75 x 10	15.50
130 x 90 x 12	19.72
150 x 75 x 8	13.63
150 x 100 x 10	19.00
200 x 100 x 12	27.40

Stainless Steel Flat Bar

We can polish in house all flat bar, including flat from sheared plate up to 300mm wide.

Flats are normally offered as Slit and Edge Dressed up to 12mm thick x 4mtrs long

All thicker bars are supplied as Hot Rolled and the lengths vary from 4mtrs up to 4.7mtrs

We can also order 5mtr an 6mtr long bars on most sizes.

STANDARD STOCK GRADES: **304 and 316**



size mm	weight per mtr
12x3	0.283
20x3	0.471
25x3	0.59
30x3	0.71
40x3	0.942
50x3	1.18
60x3	1.42
65x3	1.58
75x3	1.8
100x3	2.83
12x5	0.474
15x5	0.593
20x5	0.785
25x5	0.981
30x5	1.19
40x5	1.57
45x5	1.78
50x5	1.96
60x5	2.38
65x5	2.55
75x5	2.96
80x5	3.15
100x5	3.96
12x6	0.569
15x6	0.715
20x6	0.942
25x6	1.18
30x6	1.41
40x6	1.88
45x6	2.13
50x6	2.36
60x6	2.85
65x6	3.1
75x6	3.55
80x6	3.76
100x6	4.71
150x6	7.1

size mm	weight per mtr
20x8	1.26
25x8	1.58
30x8	1.88
40x8	2.51
45x8	2.83
50x8	3.16
60x8	3.77
65x8	4.13
75x8	4.74
80x8	5.02
100x8	6.28
150x8	9.48
12x10	0.96
15x10	1.19
20x10	1.57
25x10	1.97
30x10	2.36
40x10	3.14
45x10	3.56
50x10	3.93
60x10	4.72
65x10	5.13
75x10	5.93
80x10	6.35
100x10	7.85
150x10	11.88
200x10	16
20x12	1.89
25x12	2.38
30x12	2.85
40x12	3.78
50x12	4.71
60x12	5.72
65x12	6.16
75x12	7.12
80x12	7.6
100x12	9.42

size mm	weight per mtr
25x15	2.98
30x15	3.55
40x15	4.74
50x15	5.95
60x15	7.14
65x15	7.7
75x15	8.89
80x15	9.52
100x15	11.9
25x20	3.98
30x20	4.76
40x20	6.82
50x20	7.6
60x20	9.52
65x20	10.3
75x20	11.9
80x20	12.7
100x20	15.8
40x25	7.9
50x25	9.9
65x25	12.9
75x25	14.8
100x25	19.6

Stainless Steel Round Bar

We can polish round bar in house from 12mm dia.

Random lengths vary from 3mtrs up to 4.5mtrs,
smaller Dia bars tend to be around 3mtrs long.

GRADES: 303, 304 AND 316 AVAILABLE FROM STOCK



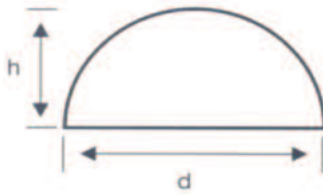
Diameter INS or MM	Kgs per metre
3mm	0.055
4mm	0.099
3/16"	0.14
5mm	0.154
6mm	0.222
6mm ribbed	0.228
1/4"	0.248
7mm	0.31
5/16"	0.38
8mm	0.395
8mm ribbed	0.41
9mm	0.501
3/8"	0.559
10mm	0.617
10mm ribbed	0.64
7/16"	0.78
12mm	0.888
12mm ribbed	0.911
1/2"	.994
14mm	1.21
9/16"	1.26
15mm	1.39
5/8"	1.55
16mm	1.58
16mm ribbed	1.64
18mm	2
3/4"	2.24
20mm	2.47
20mm ribbed	2.7
22mm	3
7/8"	3.04
24mm	3.55
25mm	3.85

Diameter INS or MM	Kgs per metre
1"	3.98
27mm	4.5
1 1/8"	5.03
30mm	5.55
1 1/4"	6.21
32mm	6.31
1 3/8"	7.47
35mm	7.55
36mm	7.99
1 1/2"	8.94
40mm	9.86
1 5/8"	10.5
1 3/4"	12.2
45mm	12.48
1 7/8"	14.1
50mm	15.4
2"	15.9
2 1/4"	20.1
60mm	22.2
2 3/8"	22.4
2 1/2"	24.9
65mm	26.1
2 5/8"	27.49
2 3/4"	30
3"	38
80mm	39.46
3 1/4"	44
90mm	49.94
3 1/2"	51
3 3/4"	58
4"	66
4 1/4"	74

Diameter INS or MM	Kgs per metre
4 1/2"	83
115mm	83.6
4 3/4"	93
5"	102
5 1/4"	113
135mm	115.2
5 1/2"	124
140mm	123.9
6"	147
6 1/4"	158
165mm	172.1
6 1/2"	172
7"	199
7 1/4"	213
185mm	216.32
7 1/2"	228
200mm	252.8
8"	260
8 1/2"	293
220mm	306
9"	328
9 1/2"	365
250mm	395.02
10"	404
285mm	513.4
340mm	730.63
14"	799.2
370mm	665.25
15"	918
16"	1043.9
420mm	1114
17"	1178.4

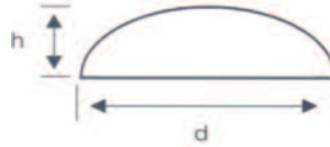
Stainless Square, Hex and Half Round

Half Round Bar



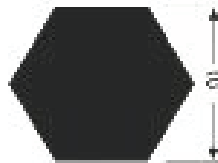
d	x	h	kg/m
12	x	6	0.45
16	x	8	0.78
20	x	10	1.23
25	x	12.5	1.94
30	x	15	2.77
40	x	20	4.95
50	x	25	7.75

Flat Half Round Bar



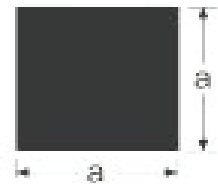
d	x	h	kg/m
16	x	6	0.56
20	x	4	0.43
20	x	6	0.67
30	x	10	1.71
40	x	10	2.2
50	x	10	3.3

Hexagon Bar



A =	KG/m
10mm	0.680
13mm	1.150
14mm	1.330
17mm	1.970
19mm	2.450
22mm	3.290
24mm	3.920
27mm	4.960
30mm	6.120
32mm	6.960
36mm	8.810
41mm	11.430
46mm	14.390
50mm	17.000
55mm	20.570
60mm	24.480
65mm	28.720

Square Bar



A =	KG/m
6mm	0.280
8mm	0.500
10mm	0.790
12mm	1.130
13mm	1.340
14mm	1.540
15mm	1.770
16mm	2.010
18mm	2.540
20mm	3.140
22mm	3.800
25mm	4.910
30mm	7.070
35mm	9.620
40mm	12.560
45mm	15.900
50mm	19.630

Stainless Steel Square Box Section

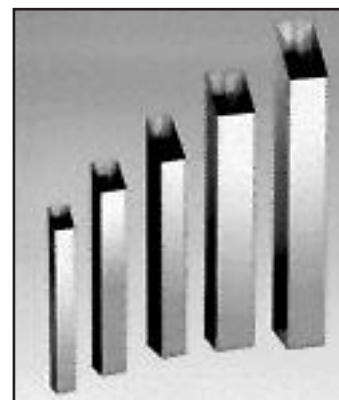
Dull Polished, Mirror Polished or Descaled

GRADES STOCKED: 304, 316 and 430

Please note 430 only available in highlighted sizes
and 316 not available in all sizes, please contact sales.

We can cut to size including mitre cuts

If the size you are looking for is not listed please ask sales



Square Tube

10 x 10 x 1.0
15 x 15 x 1.0
15 x 15 x 1.2
15 x 15 x 1.5
20 x 20 x 1.0
20 x 20 x 1.2
20 x 20 x 1.5
20 x 20 x 2
25 x 25 x 1.0
25 x 25 x 1.2
25 x 25 x 1.5
25 x 25 x 2
25 x 25 x 3
30 x 30 x 1.0
30 x 30 x 1.2
30 x 30 x 1.5
30 x 30 x 2
30 x 30 x 3
35 x 35 x 1.5
35 x 35 x 2.0
35 x 35 x 3.0
40 x 40 x 1.2
40 x 40 x 1.5
40 x 40 x 2
40 x 40 x 3
40 x 40 x 4
45 x 45 x 1.5
45 x 45 x 2.0

50 x 50 x 1.5
50 x 50 x 2
50 x 50 x 3
50 x 50 x 4
50 x 50 x 5
50 x 50 x 6
60 x 60 x 2
60 x 60 x 3
60 x 60 x 4
60 x 60 x 5
70 x 70 x 2
70 x 70 x 3
70 x 70 x 5
80 x 80 x 2
80 x 80 x 3
80 x 80 x 4
80 x 80 x 5
80 x 80 x 6
100 x 100 x 1.5
100 x 100 x 2
100 x 100 x 3
100 x 100 x 4
100 x 100 x 5
100 x 100 x 6
100 x 100 x 8
100 x 100 x 10
120 x 120 x 3
120 x 120 x 4

120 x 120 x 5
120 x 120 x 6
120 x 120 x 8
150 x 150 x 3
150 x 150 x 4
150 x 150 x 5
150 x 150 x 6
150 x 150 x 8
150 x 150 x 10
200 x 200 x 4
200 x 200 x 5
200 x 200 x 6
250 x 250 x 5
250 x 250 x 6
300 x 300 x 5

Stainless Steel Rectangular Box Section

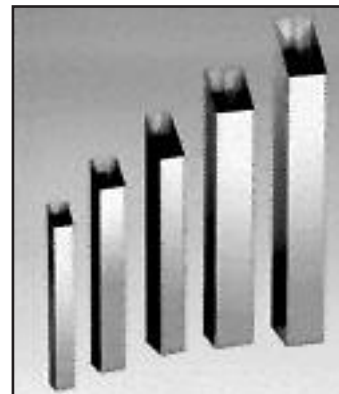
Dull Polished, Mirror Polished or Descaled

GRADES STOCKED: **304 and 316**

Grade 316 not available in all sizes please ask sales.

We can cut to size including mitre cuts

If the size you are looking for is not listed please ask sales



Rectangular Tube

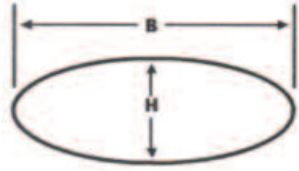
20 x 10 x 1.5
30 x 10 x 1
30 x 10 x 1.2
30 x 10 x 1.5
30 x 15 x 1
30 x 15 x 1.5
30 x 20 x 2
40 x 10 x 1.5
40 x 20 x 1.2
40 x 20 x 1.5
40 x 20 x 2
50 x 10 x 1.5
50 x 10 x 2
50 x 25 x 1.5
50 x 25 x 2
50 x 25 x 3
50 x 30 x 1.5
50 x 30 x 3
60 x 10 x 1.5
60 x 10 x 2
60 x 20 x 1.5
60 x 20 x 2
60 x 30 x 1.5
60 x 30 x 2
60 x 30 x 3
60 x 40 x 1.5
60 x 40 x 2
60 x 40 x 3

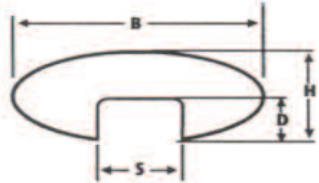
60 x 40 x 4
70 x 20 x 2
80 x 10 x 2
80 x 20 x 2
80 x 40 x 2
80 x 40 x 3
80 x 40 x 4
80 x 40 x 5
80 x 40 x 6
80 x 60 x 3
80 x 60 x 5
100 x 20 x 2
100 x 40 x 2
100 x 40 x 3
100 x 50 x 2
100 x 50 x 3
100 x 50 x 4
100 x 50 x 5
100 x 50 x 6
100 x 60 x 3
100 x 60 x 4
100 x 60 x 5
100 x 80 x 3
100 x 80 x 4
120 x 40 x 3
120 x 60 x 3
120 x 60 x 5
120 x 60 x 6

120 x 80 x 3
120 x 80 x 4
120 x 80 x 5
120 x 80 x 6
150 x 50 x 2
150 x 50 x 3
150 x 50 x 4
150 x 50 x 5
150 x 80 x 3
150 x 100 x 3
150 x 100 x 5
150 x 100 x 6
150 x 100 x 8
150 x 100 x 10
160 x 80 x 4
160 x 80 x 5
200 x 100 x 3
200 x 100 x 5
200 x 100 x 6
200 x 100 x 8
200 x 100 x 10
250 x 100 x 6
250 x 150 x 5
250 x 150 x 6
250 x 150 x 8
300 x 100 x 3
300 x 100 x 5

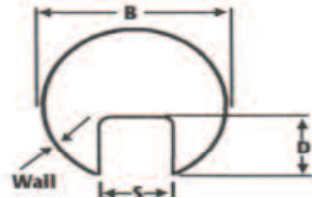
Stainless Handrail Tube

Available in Grades 304 and 316 Standard finish is Dull Polish some sizes available in mirror

B	X	H	WALL	 OVAL TUBE
21.6	X	13.7	1.2	
32.5	X	16.2	1.5	
49.0	X	24.5	2.0	
66.0	X	33.0	2.0	
78.0	X	39.0	2.0	
90.0	X	45.0	2.0	
104.0	X	52.0	2.0	
132.0	X	66.0	2.0	
148.0	X	74.0	2.0	
167.0	X	83.5	2.0	
200.0	X	100.0	2.0	

B	X	H	D + S	Wall	 OVAL SLOTTED TUBE
80.0	X	40.0	26 X 23	2.0	
100	X	55	30 X 40	2.0	

B	X	H	Wall	 Flat Oval Tube
30.0	x	15.0	1.50	
40.0	x	20.0	1.50	
60.0	x	32.0	2.00	

B	S	D	Wall	 Round Slotted
42.4	x	20.0	20.0	1.50
42.4	x	27.0	30.0	1.50
48.3	x	27.0	30.0	1.50
50.0	x	20.0	20.0	1.50
60.0	x	20.0	20.0	1.50
60.3	x	34.0	35.0	1.50
70.0	x	27.0	26.0	2.00

Decorative and Architectural Tube

We can polish in house from 12.7mm o/d up to 203mm o/d, we can arrange for a mechanical polish up to 306mm o/d.

Tube can be taken to a range of polishes from a 180grit up to a 600 grit a commercial mirror polish.

Available in Grades 304/304L and 316/316L



o/d in mm		wall in mm
12.70	x	1.50
13.72	x	1.65
	x	2.24
	x	3.02
15.88	x	1.20
	x	1.50
17.15	x	1.65
	x	2.30
	x	3.20
19.05	x	1.50
21.34	x	2.00
	x	2.11
	x	2.77
22.22	x	1.20
	x	1.50
25.40	x	1.20
	x	1.50
	x	2.00
	x	3.00
26.67	x	2.00
	x	2.19
	x	2.87
28.00	x	1.50
29.00	x	2.00
31.75	x	1.50
	x	2.00
	x	3.00
33.4	x	2.00
	x	2.50
	x	2.77
	x	3.38
38.10	x	1.50
	x	2.00
	x	3.00

o/d in mm		wall in mm
42.4	x	1.50
	x	2.00
	x	2.50
	x	2.77
	x	3.00
	x	3.56
48.3	x	1.50
	x	2.00
	x	2.50
	x	2.77
	x	3.00
	x	3.68
50.8	x	1.50
	x	2.00
	x	3.00
53.0	x	1.50
54.0	x	2.00
60.3	x	1.50
	x	2.00
	x	2.77
	x	3.00
	x	3.91
63.5	x	1.50
	x	2.00
	x	3.00
68.0	x	1.50
69.0	x	2.00
73.03	x	3.05
		5.16
76.2	x	1.50
	x	2.00
	x	3.00
83.0	x	1.50
84.0	x	2.00

o/d in mm		wall in mm
88.90	x	2.00
	x	3.05
	x	4.00
	x	5.49
101.6	x	1.50
	x	2.00
	x	3.00
	x	5.74
103.0	x	1.50
104.0	x	2.00
106.0	x	3.00
114.3	x	2.11
	x	3.05
	x	6.02
128.0	x	1.50
129.0	x	2.00
139.0	x	2.00
141.3	x	3.40
	x	6.55
153.0	x	1.50
154.0	x	2.00
156.0	x	3.00
168.3	x	2.00
	x	2.50
	x	3.00
	x	3.40
203.00	x	1.50
204.00	x	2.00
219.00	x	2.00
	x	2.90
	x	3.76
254.00	x	2.00
256.00	x	3.00
273.05	x	2.00
	x	3.00
	x	4.19

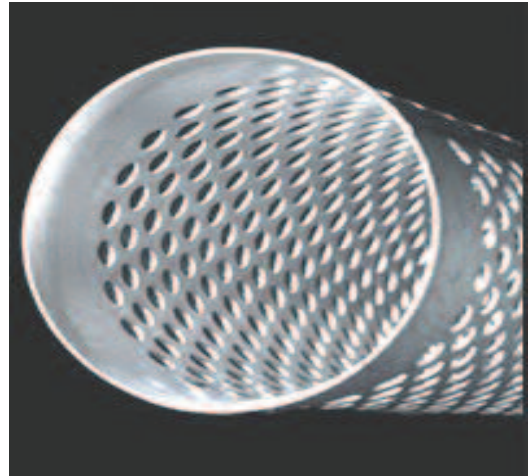
Stainless Perforated Tube

Perforated Tube

Available in Grades:

304 and 409

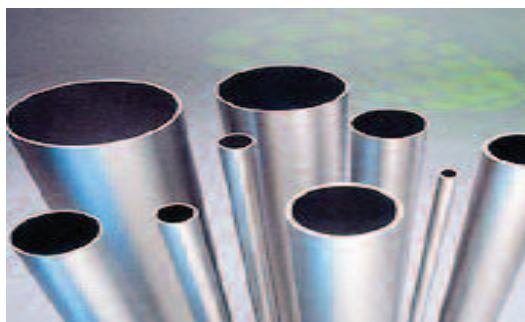
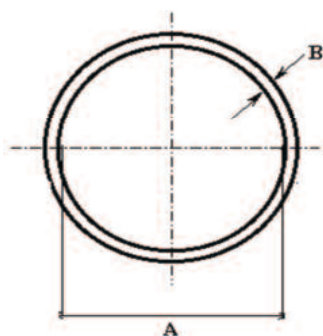
Hole size 3mm dia on a 6mm pitch



o/d in mm	x	wall in mm
-----------	---	------------

31.75	x	1.22
34.93	x	1.22
38.10	x	1.22
41.28	x	1.22
44.45	x	1.22
47.62	x	1.22
50.80	x	1.22
53.98	x	1.22
57.15	x	1.22
60.33	x	1.22
63.50	x	1.22
76.20	x	1.22

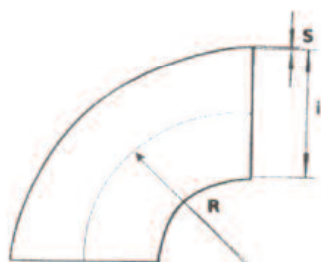
Stainless Metric Tube



Available in grades: 304 and 316

A= inside diameter	B= wall thickness	kilos per meter
25mm	1.50	1.00
32mm	1.50	1.26
40mm	1.50	1.56
50mm	1.50	1.93
50mm	2.00	2.60
65mm	1.50	2.50
65mm	2.00	3.41
75mm	1.50	2.87
75mm	2.00	3.86
80mm	1.50	3.06
80mm	2.00	4.11
100mm	1.50	3.81
100mm	2.00	5.11
100mm	3.00	6.42
125mm	1.50	4.75
125mm	2.00	6.36
150mm	1.50	5.69
150mm	2.00	7.61
150mm	3.00	11.49
200mm	1.50	7.57
200mm	2.00	10.12
200mm	3.00	15.25
250mm	2.00	12.62
300mm	2.00	15.12
300mm	2.50	18.94
350mm	2.50	22.07
400mm	3.00	30.27
450mm	3.00	34.06
500mm	3.00	37.78
600mm	3.00	45.29
700mm	4.00	70.51
800mm	4.00	80.52
900mm	4.00	90.54
1000mm	4.00	100.55

Stainless Metric Elbows



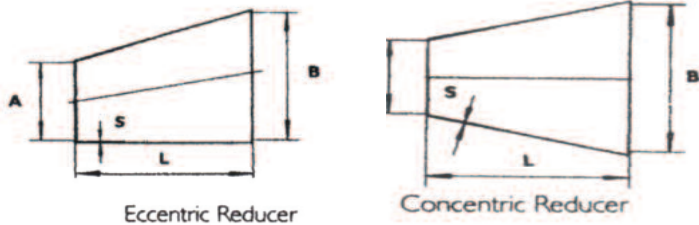
90° Bend



Available in grades: 304 and 316

Inside Diameter	Wall Thickness	D+100 R= Centre Line Radius	1.5D R= Centre Line Radius
	mm	mm	mm
25mm	1.5	125	37
32mm	1.5		45
40mm	2	140	60
50mm	2	175	75
65mm	2	166	98
75mm	2	175	113
80mm	2	180	120
100mm	2 or 3	200	150
125mm	2 or 3	225	188
150mm	2 or 3	250	225
200mm	2 or 3	350	45 Degree Bends Also Available
250mm	2 or 3	400	
300mm	2 or 3	400	
350mm	3	450	
400mm	3	500	
450mm	3	550	
500mm	3	600	
600mm	4	700	
700mm	4	800	
800mm	4	900	
900mm	4	1000	
1000mm	4	1100	
1200mm	4	1300	

Metric Concentric and Eccentric Reducers

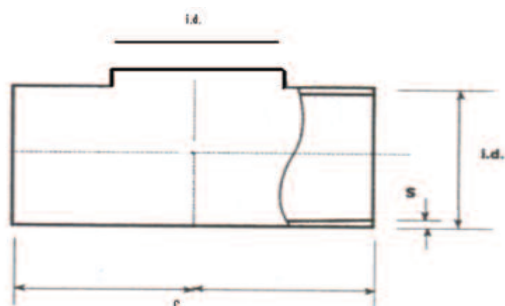


Thickness is normally 2mm up to 300mm x 250mm thereafter 3mm thick

Available in grades 304 and 316

A = SMALL END i/d B = LARGE END i/d	Overall Length		A = SMALL END i/d B = LARGE END i/d	Overall Length
25mm x 20mm	15mm		200mm x 150mm	150mm
32mm x 25mm	21mm		250mm x 150mm	300mm
40mm x 25mm	45mm		250mm x 200mm	150mm
40mm x 32mm	24mm		300mm x 150mm	450mm
50mm x 25mm	75mm		300mm x 200mm	300mm
50mm x 32mm	54mm		350mm x 250mm	300mm
50mm x 40mm	30mm		350mm x 300mm	150mm
65mm x 40mm	75mm		400mm x 250mm	450mm
65mm x 50mm	45mm		400mm x 300mm	300mm
80mm x 40mm	120mm		400mm x 350mm	150mm
80mm x 50mm	90mm		450mm x 300mm	450mm
80mm x 65mm	45mm		450mm x 350mm	300mm
100mm x 50mm	150mm		450mm x 400mm	150mm
100mm x 65mm	105mm		500mm x 350mm	450mm
100mm x 80mm	60mm		500mm x 400mm	300mm
125mm x 65mm	180mm		500mm x 450mm	150mm
125mm x 80mm	135mm		600mm x 400mm	600mm
125mm x 100mm	75mm		600mm x 450mm	450mm
150mm x 65mm	255mm		600mm x 500mm	300mm
150mm x 80mm	210mm		700mm x 500mm	600mm
150mm x 100mm	150mm		700mm x 600mm	300mm
150mm x 125mm	75mm		800mm x 600mm	600mm
200mm x 100mm	300mm		800mm x 700mm	300mm
200mm x 125mm	225mm			

Stainless Metric Pulled T's



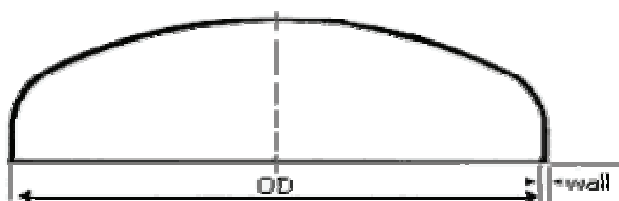
Available in grades: 304 and 316



Inside Diameter	Wall Thickness	C Length	Weight
	mm	mm	kg
25mm	2	50	0.04
32mm	2	64	0.07
40mm	2	80	0.11
50mm	2	100	0.25
65mm	2	130	0.41
75mm	2	150	0.6
80mm	2	160	0.62
100mm	2	200	0.97
125mm	2	250	1.5
150mm	2	300	2.15
200mm	2	400	3.82
250mm	2	500	5.92
300mm	2.5	600	10.6
350mm	2.5	700	14.4
400mm	3	800	22.54

Metric Equal Leg Pressed T's also available.

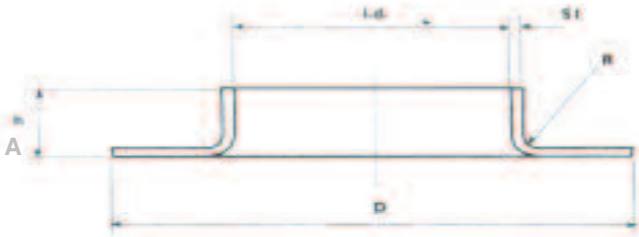
Stainless Metric End Caps



Available in grades: 304 and 316

Inside Diameter	Wall Thickness	Height	Weight
	mm	mm	kg
25mm	2	7	0.01
40mm	2	13	0.04
50mm	2	12.5	0.25
65mm	2	17.5	0.05
80mm	2	22	0.07
100mm	2	26	0.15
125mm	2	35	0.21
150mm	2 or 3	42	0.5 or 0.75
200mm	2 or 3	60	0.80 or 1.20
250mm	3	70	5.92
300mm	3	80	10.6
350mm	3	106	14.4
400mm	3	120	22.54

Metric Pressed Collars



Available in grades: 304 and 316

i.d	Wall Thickness s.i	Overall Diameter D	Overall Height A
-----	-----------------------	-----------------------	---------------------

20	2	55	10
25	2	65	12
32	2	70	14
40	2	90	17
50	2	100	18
65	2	105	20
75	2 or 3	125	24
80	2 or 3	125	24
100	2 or 3	158	27
125	2 or 3	188	27
150	2 or 3	212	27
200	2 or 3	268	27
250	3	320	24
300	3	370	24
350	3	430	24
400	3	482	24
450	3	532	32
500	3	585	40
600	3	685	45

Backing Flanges for Metric Collars

Mild Steel Backers are available in a range of finishes:

Zinc Plated Gold Passivated (this type is the most common)

PPA Grey Plastic Coated

Hot Dipped Galvanised

Backers are also available in **Stainless Steel**

Available from stock:

Table E / D, PN10 / PN16 and ASA 150.

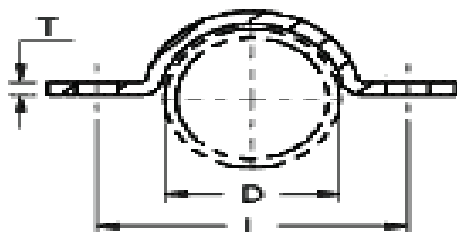


Backing flanges can be made to your exact requirements, normal lead time 5-7 days.

Please refer to the Flange Tables at the back of the Brochure for the full list of dimensions. Please bear in mind that the thickness of the backing flanges and the inside diameter of the flanges are different from those listed in the flange tables.

TUBE i/d	Flange i/d	Thickness
25mm	35	10mm
32mm	42	10mm
40mm	50	10mm
50mm	60	10mm
65mm	75	10mm
80mm	90	10mm
100mm	110	10mm
125mm	136	12mm
150mm	161	12mm
200mm	212	12mm
250mm	262	16mm
300mm	313	19mm
350mm	364	22mm
400mm	418	22mm
450mm	470	25mm
500mm	520	25mm
600mm	620	25mm
700mm	720	25mm
800mm	820	25mm
900mm	920	25mm

Pipe Clips to Suit Metric Tube



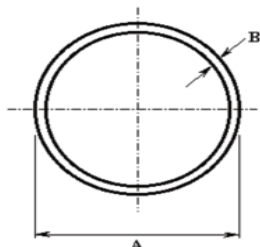
Available in Mild steel Zinc Plated

We can also supply pipe clips in Stainless Steel

Tube Inside Diameter	flat bar size	L = Hole Centers	Weight
	mm	mm	kg
25mm	30 x 5	70	0.30
40mm	30 x 5	90	0.36
50mm	30 x 5	100	0.42
65mm	30 x 5	115	0.45
80mm	40 x 6	140	0.88
100mm	40 x 6	165	0.95
125mm	40 x 6	190	1.15
150mm	40 x 6	218	1.30
200mm	50 x 6	283	2.10
250mm	50 x 6	337	2.50
300mm	65 x 8	404	5.50
350mm	65 x 10	456	7.00
400mm	65 x 10	408	7.80

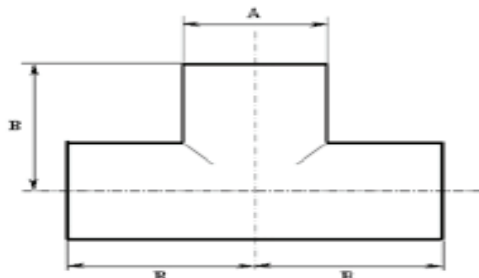
Hygienic Tube and Fittings

Hygienic Tube in grades 304/316 descaled and dull polished



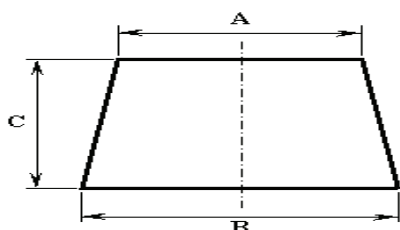
SIZES	A = O/D	B	C = I/D
1"	25.4	1.5	22.4
1 1/2"	38.1	1.5	35.1
2"	50.8	1.5	47.8
2 1/2"	63.5	1.5	60.5
3"	76.1	1.5	73.1
4"	101.6	1.5	98.6

Hygienic Equal T's 16swg in grades 304/316 descaled and dull polished



O/D SIZES	A	B	C
1"	25.4	44	
1 1/2"	38.1	64	
2"	50.8	89	
2 1/2"	63.5	114	
3"	76.1	134	
4"	101.6	174	

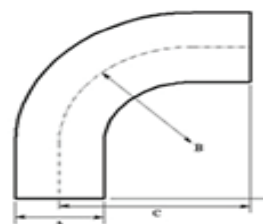
Hygienic Concentric Reducer 16swg in Grades 304/316 Descaled and Dull Polished



O/D SIZE	A	B	C
1" x 1/2"	12.7	25.4	19.4
1 1/2" x 1"	25.4	38.1	28
2" x 1"	25.4	50.8	54
2" x 1 1/2"	38.1	50.8	38
2 1/2" x 1"	25.4	63.5	79
2 1/2" x 1 1/2"	38.1	63.5	63
2 1/2" x 2"	50.8	63.5	38
3" x 1"	25.4	76.1	110
3" x 1 1/2"	38.1	76.1	94
3" x 2"	50.8	76.1	56
3" x 2 1/2"	63.5	76.1	38
4" x 2"	50.8	101.6	76
4" x 3"	76.1	101.6	78

Eccentric reducers available also.

90 degree bends x 16swg in Grades 304/316 descaled or Dull Polished



O/D SIZES	A	B	C
1"	25.4	38	65
1 1/2"	38.1	57	85
2"	50.8	76	110
2 1/2"	63.5	95	135
3"	76.1	114	155
4"	101.6	152	195

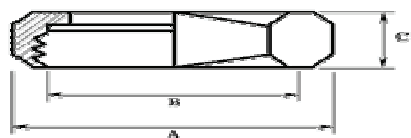
Standard 90 degree bends are 1.5D with a tail
2D and 3D bends are available to order.

**45 Degree Bends are
also available from stock**

We can also offer: Hygienic IDF Fittings, Hygienic Spray Balls, and Sight Glasses
IF the Hygienic item you require is not listed on the following pages please contact sales.

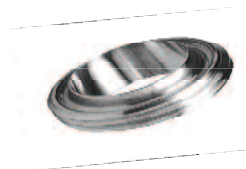
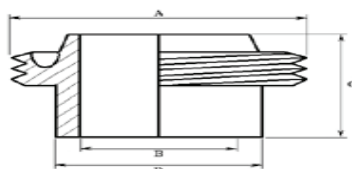
Hygienic RJT Full Union

Hygienic RJT Nut



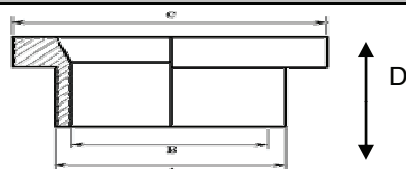
PRODUCT DIMENSIONS		A	B	C	-	-	-	-	-
1"	RJT Nut 304	51	46	22.2					
1 1/2"	RJT Nut 304	65	58.7	22.2					
2"	RJT Nut 304	79	73	22.2					
2 1/2"	RJT Nut 304	92	85.7	22.2					
3"	RJT Nut 304	105	98.4	22.2					
4"	RJT Nut 304	130	123.8	22.2					

Hygienic RJT Male Part



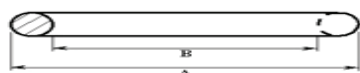
PRODUCT DIMENSIONS		A	B	C	D	-	-	-	-
1"	RJT Male Part 316	46	23	27	25.4				
1 1/2"	RJT Male Part 316	58.7	35.6	27	38.1				
2"	RJT Male Part 316	73	48.3	27	50.8				
2 1/2"	RJT Male Part 316	85.7	60.5	27	63.5				
3"	RJT Male Part 316	98.4	72.2	27	76.2				
4"	RJT Male Part 316	123.8	97.5	27	101.6				

Hygienic RJT Liner



PRODUCT DIMENSIONS		A	B	C	D	-	-	-	-
1"	RJT Liner 316	25.2	22.6	35.5	10.5				
1 1/2"	RJT Liner 316	38.2	35.6	55	10.5				
2"	RJT Liner 316	51.2	48.4	65	10.5				
2 1/2"	RJT Liner 316	63.7	60.4	80	10.5				
3"	RJT Liner 316	76.2	72.8	93	10.5				
4"	RJT Liner 316	102.5	98.5	127	10.5				

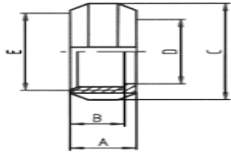
Hygienic RJT EPDM Seal



PRODUCT DIMENSIONS		A	B	-	-	-	-	-	-
1"	RJT Seal - EPDM	39.6	27						
1 1/2"	RJT Seal - EPDM	52.3	39.7						
2"	RJT Seal - EPDM	65	52.4						
2 1/2"	RJT Seal - EPDM	77.7	65.1						
3"	RJT Seal - EPDM	90.4	77.8						
4"	RJT Seal - EPDM	115.8	103.2						

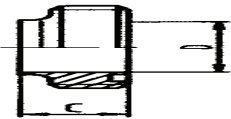
Hygienic SMS Full Union

Hygienic SMS Nut



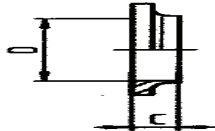
PRODUCT DIMENSIONS		A	B	D	C	-	-
1"	SMS Nut 304	20	16	32	51		
1 1/2"	SMS Nut 304	25	21	48	74		
2"	SMS Nut 304	26	21	60.5	84		
2 1/2"	SMS Nut 304	30	25	74	100		
3"	SMS Nut 304	32	26	87	114		
4"	SMS Nut 304	32	26	117	154		

Hygienic SMS Male Part



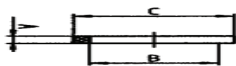
PRODUCT DIMENSIONS		C in MM	D in MM			-	-
1"	SMS Male Part 316	46	23				
1 1/2"	SMS Male Part 316	58.7	35.6				
2"	SMS Male Part 316	73	48.3				
2 1/2"	SMS Male Part 316	85.7	60.5				
3"	SMS Male Part 316	98.4	72.2				
4"	SMS Male Part 316	123.8	97.5				

Hygienic SMS Liner



PRODUCT DIMENSIONS		C in MM	D in MM			-	-
1"	SMS Liner 316	8	22.5				
1 1/2"	SMS Liner 316	9	35.5				
2"	SMS Liner 316	9	48.5				
2 1/2"	SMS Liner 316	9	60.4				
3"	SMS Liner 316	10	73.1				
4"	SMS Liner 316	12	97.6				

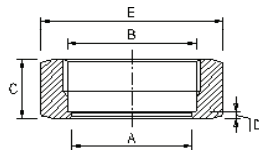
Hygienic SMS Gasket



PRODUCT DIMENSIONS		A	B	C	-	-	-
1"	SMS Seal - EPDM	5.5	25	32			
1 1/2"	SMS Seal - EPDM	5.5	38	48			
2"	SMS Seal - EPDM	5.5	51	61			
2 1/2"	SMS Seal - EPDM	5.5	63.5	73.5			
3"	SMS Seal - EPDM	5.5	76	76			
4"	SMS Seal - EPDM	5.5	101.6	113.5			

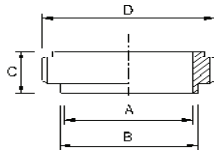
Hygienic IDF Full Union

IDF NUT



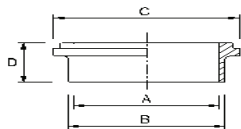
		A	B	C	E				
1"	IDF Nut 304	30.5	34.3	30	46				
1 1/2"	IDF Nut 304	43.5	47.9	30	60				
2"	IDF Nut 304	57	61.4	30	75				
2 1/2"	IDF Nut 304	70.7	74.9	30	90				
3"	IDF Nut 304	83.3	84.3	30	105				
4"	IDF Nut 304	112	122.05	30	133				

IDF MALE PART



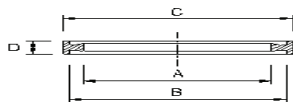
		A	B	C	D				
1"	IDF Male Part 316	22.2	25.65	21.5	37.13				
1 1/2"	IDF Male Part 316	34.9	38.35	21.5	50.65				
2"	IDF Male Part 316	47.6	51.05	21.5	64.16				
2 1/2"	IDF Male Part 316	60.3	63.75	21.5	77.76				
3"	IDF Male Part 316	73	76.45	21.5	91.19				
4"	IDF Male Part 316	97.5	101.85	30	125.9				

IDF LINER



		A	B	C	D				
1"	IDF Liner 316	22.2	25.65	33.80	21.5				
1 1/2"	IDF Liner 316	34.9	38.35	47.00	21.5				
2"	IDF Liner 316	47.6	51.05	60.50	21.5				
2 1/2"	IDF Liner 316	60.3	63.75	74.00	21.5				
3"	IDF Liner 316	73	76.45	87.50	21.5				
4"	IDF Liner 316	97.5	101.85	120.60	30.0				

IDF SEAL



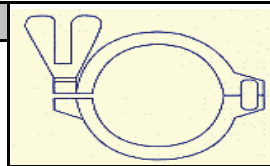
		A	B	C	D				
1"	IDF EPDM Gasket	23.2	29.2	32.5	7.0				
1 1/2"	IDF EPDM Gasket	35.9	42.7	46.0	7.0				
2"	IDF EPDM Gasket	48.6	56.2	59.5	7.0				
2 1/2"	IDF EPDM Gasket	61.3	69.9	73.2	7.0				
3"	IDF EPDM Gasket	74.0	82.6	86.5	7.0				
4"	IDF EPDM Gasket	98.6	111	119.0	9.6				

Tri Clover Clamp and Din Unions

TRI CLOVER CLAMP 304

To suit O/D tube size

12.7	19.05	25.4	38.1	50.8	63.5	102
------	-------	------	------	------	------	-----

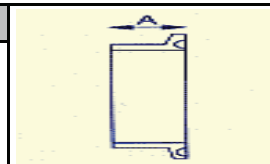


TRI CLOVER FERRULE 316

To suit O/D tube size

12.7	19.05	25.4	38.1	50.8	63.5	102
------	-------	------	------	------	------	-----

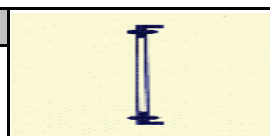
A = 21.5 21.5 21.5 21.5 21.5 21.5 21.5



TRI CLOVER GASKETS EPDM

To suit O/D tube size

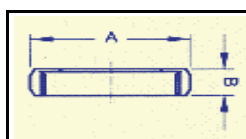
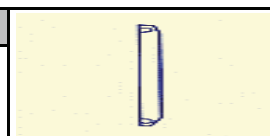
12.7	19.05	25.4	38.1	50.8	63.5	102
------	-------	------	------	------	------	-----



TRI CLOVER BLANK CAP 316

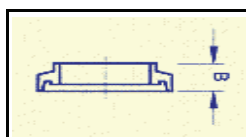
To suit O/D tube size

12.7	19.05	25.4	38.1	50.8	63.5	102
------	-------	------	------	------	------	-----



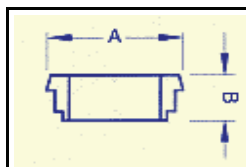
DIN NUT 304

size		25.4	38.1	50.8	63.5	76.2
A=		63	78	92	112	127
B=		21	21	22	24	28.5



DIN MALE 316

size		25.4	38.1	50.8	63.5	76.2
B=		29.0	33.0	35.0	40.0	45.0



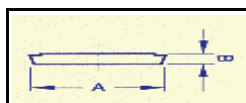
DIN LINER 316

size		25.4	38.1	50.8	63.5	76.2
A=		43.0	56.0	68.0	86.0	99.0
B=		22.0	26.0	20.0	32.0	38.0



DIN SEAL RING

size		25.4	38.1	50.8	63.5	76.2
B=		40	52	64	81	94.5

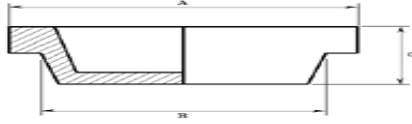


DIN BLANK

size		25.4	38.1	50.8	63.5	76.2
A=		41.0	54.0	68.0	79.0	92.0
B=		12.5	12.5	14.0	16.0	16.0

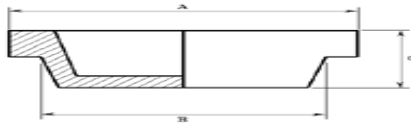
Hygienic Valves/Blank Liners

Hygienic SMS Blank Liners



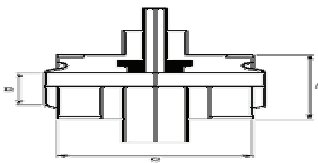
PRODUCT DIMENSIONS		A	B	C	-	-
1"	SMS Blank Liner	35.5	26.5	7		
1 1/2"	SMS Blank Liner	55	47	8		
2"	SMS Blank Liner	65	57	9		
2 1/2"	SMS Blank Liner	80	72	9		
3"	SMS Blank Liner	93	85	11		
4"	SMS Blank Liner	127	119	13		

Hygienic RJT Blank Liners



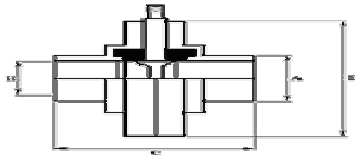
PRODUCT DIMENSIONS		A	B	C	-	-
1"	RJT Blank Liner	41.2	32.5	8.7		
1 1/2"	RJT Blank Liner	53	45	8.7		
2"	RJT Blank Liner	66.7	58	8.7		
2 1/2"	RJT Blank Liner	79.4	70.6	8.7		
3"	RJT Blank Liner	92	83	8.7		
4"	RJT Blank Liner	117	109	8.7		

Hygienic RJT Male/Male Butterfly Valves grade 316



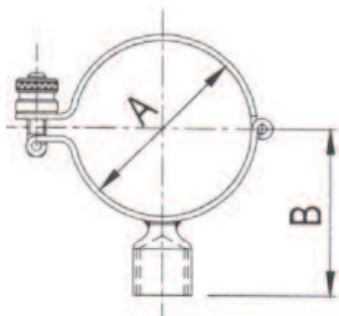
PRODUCT DIMENSIONS		A	B	C	-	-
1"	RJT M/M Butterfly Valve 316	46	22	68		
1 1/2"	RJT M/M Butterfly Valve 316	58.7	35	70		
2"	RJT M/M Butterfly Valve 316	73	48	76		
2 1/2"	RJT M/M Butterfly Valve 316	85.7	60.5	80		
3"	RJT M/M Butterfly Valve 316	98.4	72	80		
4"	RJT M/M Butterfly Valve 316	123.8	97	86		

Hygienic RJT Plain Ended Butterfly Valves grade 316



PRODUCT DIMENSIONS		A	B	C	-	-
1"	Plain Ended Butterfly Valve 316	25.4	22	68	80.5	
1 1/2"	Plain Ended Butterfly Valve 316	38.1	35	70	85	
2"	Plain Ended Butterfly Valve 316	50.8	48	76	105	
2 1/2"	Plain Ended Butterfly Valve 316	63.5	60.5	80	113	
3"	Plain Ended Butterfly Valve 316	76.1	72	80	124	
4"	Plain Ended Butterfly Valve 316	101.6	97	86	158	

Hygienic Pipe Clips

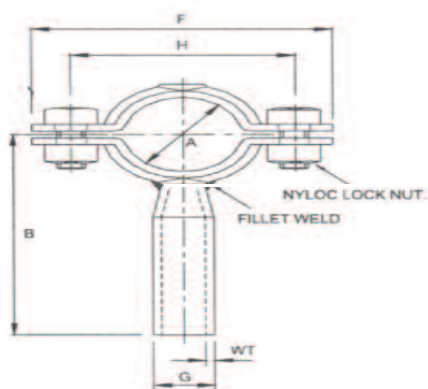


Stainless Steel grade 304



Hinged Pipe Clip with 1/2" BSP Boss

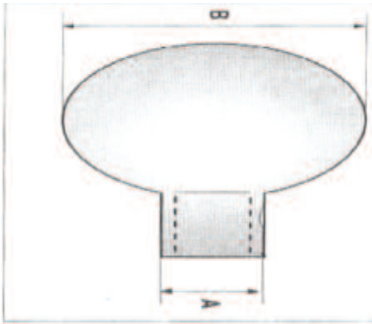
Tube O/D	A in MM		B in MM	
1/2"	12.70	47.5		
3/4"	19.00	47.5		
1"	25.40	47.5		
1 1/2"	38.10	54		
2"	50.80	60		
2 1/2"	63.50	66.5		
3"	76.20	73		
4"	101.60	85.5		



Double Bolted Pipe Clip C/W Blue Insert

Tube O/D	A	B	F	G	WT	H
1/2"	18	90	85	19	1.6	63
3/4"	24	90	85	19	1.6	63
1"	30	90	85	19	1.6	63
1 1/2"	43	90	100	19	1.6	78
2"	56	90	115	19	1.6	93
2 1/2"	69	90	127	19	1.6	105
3"	81	90	144	19	1.6	122
4"	106	90	170	19	1.6	148

Stainless Hygienic Spray Balls



Available in 304 and 316

Dull or Mirror Polished



A	B	HOLE	Radius in Mtrs
---	---	------	----------------

Hygienic Tube Sizes

3/4"	65	2.5	1.3
1"	65	2.5	1.8
1 1/2"	65	2.5	3

Nominal Bore Pipe Sizes

1/4"	28	1.3	1
1/2"	50	1.60	2.4
3/4"	65	2.5	1.3
1 1/4"	90	2.5	3.1
2"	120	2	2

Tube Clip or BSP Connections available



TYPE A



TYPE B



TYPE C



TYPE D

Nominal Bore Pipe and Fittings



ANSI NB Pipe, Flanges, Butt Weld and Threaded Fittings.

PIPE:

The term PIPE covers a specific range of sizes laid down by ANSI specifications. Any sizes not covered by these specifications are tube. Stainless Steel Pipe dimensions determined by ASME B36.19 covering the outside diameter and the Schedule wall thickness.

Our range covers both Welded and Seamless, we can also offer to cut to length and polish up to 12"NB.

We offer the full range of Flanges, Butt Weld and Threaded fittings to suit as listed on the following pages.

Grades available:

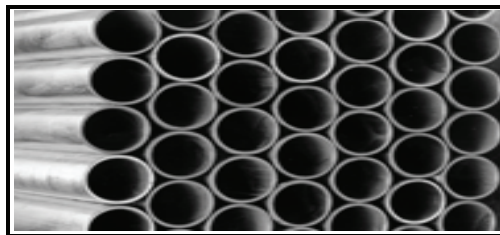
304/304L....316/316L....321....HASTALLOY C22....DUPLEX and SUPER DUPLEX

Stainless Steel Nominal Bore Pipe

We can polish in house from 3/8" NB up to 8"NB

We can cut to length from 1/8"NB up to 8"NB
Mitre cuts up to 6"NB.

Grades: 304 and 316 available from stock
Seamless and Welded please check with
sales for availability



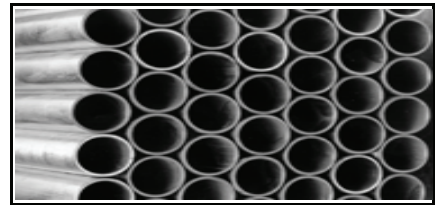
nominal pipe size	schedule	outside diameter	inside diameter	wall thickness	weight per metre kgs
1/8"	10s	10.29	7.79	1.25	0.28
	40s	10.29	6.83	1.73	0.37
	80s	10.29	5.47	2.41	0.48
1/4"	10s	13.72	10.42	1.65	0.48
	40s	13.72	9.24	2.24	0.64
	80s	13.72	7.68	3.02	0.81
3/8"	10s	17.15	13.85	1.65	0.64
	40s	17.15	12.55	2.3	0.86
	80s	17.15	10.75	3.2	1.12
1/2"	10s	21.34	17.12	2.11	1.01
	40s	21.34	15.8	2.77	1.29
	80s	21.34	13.88	3.73	1.64
3/4"	10s	26.67	22.29	2.19	1.3
	40s	26.67	20.93	2.87	1.71
	80s	26.67	18.85	3.91	2.23
1"	10s	33.4	27.86	2.77	2.12
	40s	33.4	26.64	3.38	2.54
	80s	33.4	24.3	4.55	3.28
1 1/4"	10s	42.16	36.62	2.77	2.73
	40s	42.16	35.04	3.56	3.43
	80s	42.16	32.46	4.85	4.53
1 1/2"	10s	48.26	42.72	2.77	3.15
	40s	48.26	40.9	3.68	4.11
	80s	48.26	38.1	5.08	5.49
2"	10s	60.33	54.79	2.77	3.98
	40s	60.33	52.51	3.91	5.52
	80s	60.33	49.27	5.53	7.59
2 1/2"	10s	73.03	66.93	3.05	5.34
	40s	73.03	62.71	5.16	8.76
	80s	73.03	59.01	7.01	11.58

Stainless Steel Nominal Bore Pipe

We can polish in house from 3/8" NB up to 8"NB

We can cut to length from 1/8"NB up to 8"NB
Mitre cuts up to 6"NB.

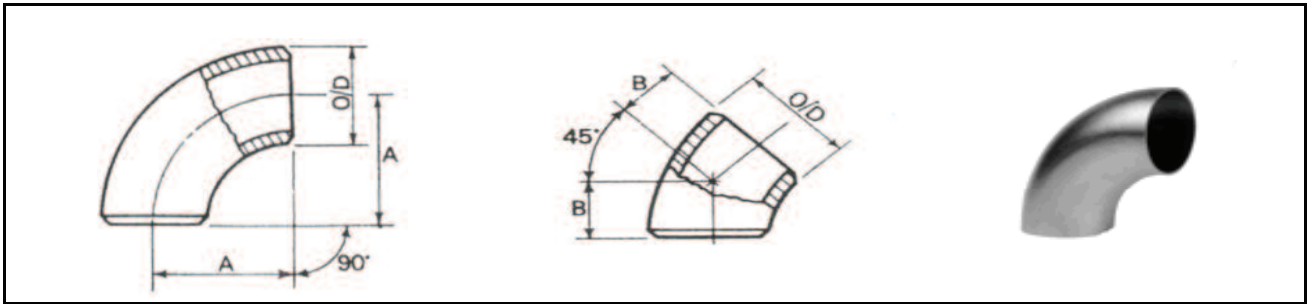
Grades: 304 and 316 available from stock
Seamless and Welded please check with
sales for availability



Seamless available up to 12"nb x sch 80

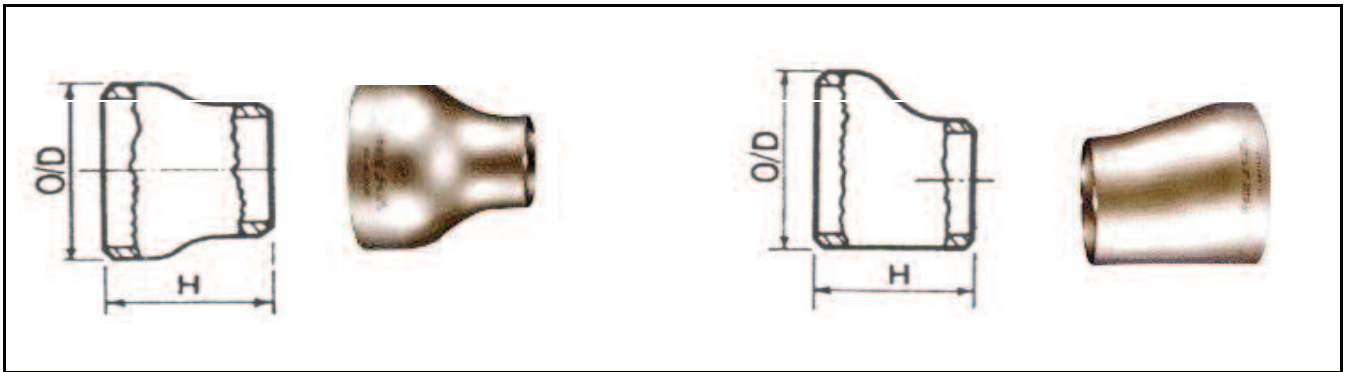
nominal pipe size	schedule	outside diameter	inside diameter	wall thickness	weight per metre kgs
3"	10s	88.9	82.8	3.05	6.54
	40s	88.9	77.92	5.49	11.45
	80s	88.9	73.66	7.62	15.5
3 1/2"	10s	101.6	95.5	3.05	7.52
	40s	101.6	90.12	5.74	13.77
	80s	101.6	85.46	8.07	18.9
4"	10s	114.3	108.2	3.05	8.48
	40s	114.3	102.26	6.02	16.31
	80s	114.3	97.18	8.56	22.65
5"	10s	141.3	134.5	3.4	11.74
	40s	141.3	128.2	6.55	22.1
	80s	141.3	122.26	9.52	31.41
6"	10s	168.28	161.48	3.4	14.04
	40s	168.28	154.06	7.11	28.68
	80s	168.28	146.34	10.97	43.19
8"	10s	219.08	211.56	3.76	20.25
	40s	219.08	202.72	8.18	43.16
	80s	219.08	193.68	12.7	65.59
10"	10s	273.05	264.67	4.19	28.2
	40s	273.05	254.51	9.27	61.2
	80s	273.05	247.65	12.7	82.74
12"	10s	323.85	314.71	4.57	36.53
	40s	323.85	304.79	9.53	74.92
	80s	323.85	298.45	12.7	98.88
14"	10s	355.6	346.06	4.77	41.92
16"	10s	406.4	396.86	4.77	47.99
18"	10s	457.2	447.66	4.77	54.06
20"	10s	508	496.94	5.53	69.62
22"	10s	558.8	547.74	5.53	76.66
24"	10s	609.6	596.9	6.35	95.86

Dimensions of Nominal Bore 90 Long 90 Short and 45 Long Radius Elbows



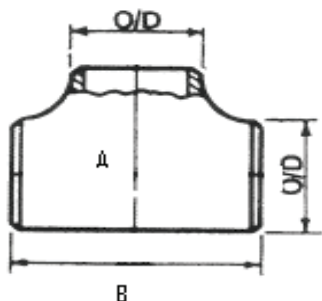
Nominal Pipe Size	Outside Diameter at bevel	A= 90 Deg Elbows	B = 45 Deg Elbows		90 Deg Short Radius	
	mm	mm		mm		mm
1/2"	21	38		16		
3/4"	27	29		11		
1"	33	38		22		25
1 1/4"	42	48		25		32
1 1/2"	48	57		29		38
2"	60	76		35		51
2 1/2"	73	95		44		64
3	89	114		51		76
3 1/2"	102	133		57		89
4	114	152		64		102
5	141	190		79		127
6	168	229		95		152
8	219	305		127		203
10	273	381		159		254
12	324	457		190		305
14	356	533		222		356
16	406	610		254		406
18	457	686		286		457
20	508	762		318		508
22	559	838		343		559
24	610	914		381		610
26	660	991		406		
28	711	1067		438		
30	762	1143		470		
32	813	1219		502		
34	864	1295		533		
36	914	1372		565		
38	965	1448		600		
40	1016	1524		632		
42	1067	1600		660		
44	1118	1676		695		
46	1168	1753		727		
48	1219	1829		759		

Dimensions of Nominal Bore Concentric and Eccentric Reducers



Nominal Pipe Size	Outside Diameter at Bevel		End to End		Nominal Pipe Size	Outside Diameter at Bevel		End to End
	large End	Small End	H			large End	Small End	H
	mm	mm	mm			mm	mm	mm
3/4" x 3/8"	27	17	38		4" x 3"	114	89	102
3/4" x 1/2"	27	21	38		4" x 2 1/2"	114	73	102
1" x 3/4"	33	27	51		4" x 2"	114	60	102
1" x 1/2"	33	21	51		4" x 1 1/2"	114	48	102
1 1/4" x 1"	42	33	51		5" x 4"	141	114	127
1 1/4" x 3/4"	42	27	51		5" x 3"	141	89	127
1 1/2" x 1 1/4"	48	42	64		5 x 2 1/2"	141	73	127
1 1/2" x 1"	48	33	64		5" x 2"	141	60	127
1 1/2" x 3/4"	48	27	64		6" x 5"	168	141	140
1 1/2" x 1/2"	48	21	64		6" x 4"	168	114	140
2" x 1 1/2"	60	48	76		6" x 3"	168	89	140
2" x 1 1/4"	60	42	76		6" x 2 1/2"	168	73	140
2" x 1"	60	33	76		8" x 6"	219	168	152
2" x 3/4"	60	27	76		8" x 5"	219	141	152
2 1/2" x 2"	73	60	89		8" x 4"	219	114	152
2 1/2" x 1 1/2"	73	48	89		10" x 8"	273	219	178
2 1/2" x 1 1/4"	73	42	89		10" x 6"	273	168	178
2 1/2" x 1"	73	33	89		10" x 5"	273	141	178
2 1/2" x 3/4"	73	27	89		10" x 4"	273	114	178
3" x 2 1/2"	89	73	89		12" x 10"	324	273	203
3" x 2"	89	60	89		12" x 8"	324	219	203
3" x 1 1/2"	89	48	89		12" x 6"	324	168	203
3" x 1 1/4"	89	42	89		12" x 5"	324	141	203

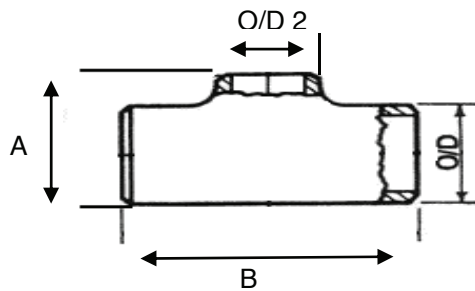
Dimensions of Nominal Bore Equal Tees



Available from stock in Stainless Steel Grades: 304L and 316L

	Nominal Pipe Size	Outside Diameter	overall length A	overall height B		
		mm	mm	mm		
	1/2"	21	50	35.5		
	3/4"	27	58	42.5		
	1"	33	66	49.5		
	1 1/4"	42	84	63		
	1 1/2"	48	114	71		
	2"	60	128	94		
	2 1/2"	73	152	112.5		
	3"	89	172	130.5		
	3 1/2"	102	190	146		
	4"	114	210	162		
	5"	141	282	211.5		
	6"	168	336	252		
	8"	219	438	328.5		
	10"	273	432	352.5		
	12"	324	508	416	Seamless available up to 12"	
	14"	356	558	457		
	16"	406	610	508		
	18"	457	686	571.5		
	20"	508	686	597		
	24"	610	762	686		

Dimensions of Nominal Bore Reducing Tees

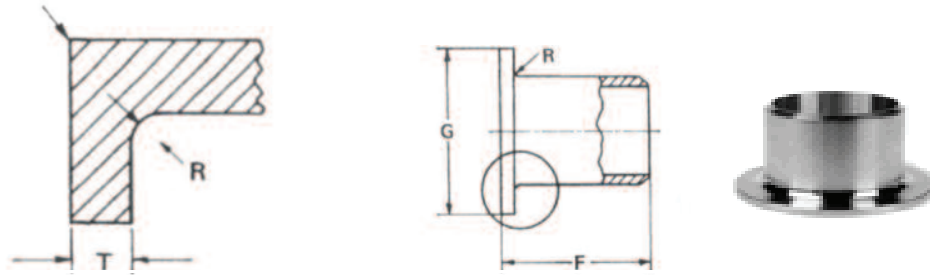


Nominal pipe size			O/D large size mm	O/D 2 small size mm	Overall Length A mm	Overall Height B mm
3/4"	x	1/2"	26.67	21.34	58	42.5
1"	x	1/2"	33.4	21.34	66	49.5
1 1/4"	x	1/2"	42.16	21.34	84	63
1 1/2"	x	1/2"	48.26	21.34	114	71
1"	x	3/4"	33.4	26.67	66	49.5
1 1/4"	x	3/4"	42.16	26.67	84	63
1 1/2"	x	3/4"	48.26	26.67	114	71
2"	x	3/4"	60.33	26.67	128	94
1 1/4"	x	1"	42.16	33.4	84	63
1 1/2"	x	1"	48.26	33.4	114	71
2"	x	1"	60.33	33.4	128	94
2 1/2"	x	1"	73.03	33.4	152	112.5
1 1/2"	x	1 1/4"	48.26	42.16	114	71
2"	x	1 1/4"	60.33	42.16	128	94
2 1/2"	x	1 1/4"	73.03	42.16	152	112.5
3"	x	1 1/4"	88.9	42.16	172	130.5
2"	x	1 1/2"	60.33	48.26	128	94
2 1/2"	x	1 1/2"	73.03	48.26	152	112.5
3"	x	1 1/2"	88.9	48.26	172	130.5
4"	x	1 1/2"	114.3	48.26	210	162
2 1/2"	x	2"	73.03	60.33	152	112.5
3"	x	2"	88.9	60.33	172	130.5
4"	x	2"	114.3	60.33	210	162
5"	x	2"	141.3	60.33	282	211.5
4"	x	3"	114.3	88.9	210	162
5"	x	3"	141.3	88.9	282	211.5
6"	x	3"	168.28	88.9	336	252
5"	x	4"	141.3	114.3	282	211.5
6"	x	4"	168.28	114.3	336	252
8"	x	4"	219.08	114.3	438	328.5
10"	x	4"	273.05	114.3	432	352.5
6"	x	5"	168.28	141.3	336	252
8"	x	5"	219.08	141.3	438	328.5
10"	x	5"	273.05	141.3	432	352.5
8"	x	6"	219.08	168.28	438	328.5
10"	x	6"	273.05	168.28	432	352.5
10"	x	8"	273.05	219.08	432	352.5

Dimensions of Nominal Bore Lap-Joint Stub Ends

ANSI B16.9:86

Enlarged Section of Lap



Nominal Pipe Size	Outside Diameter at Bevel	Length F	Radius of Fillet R	Diameter of Lap G	Outside Diameter of Barrel	
					MAX	MIN
	mm	mm	mm	mm	mm	mm
1/2"	21	50	3.2	35	23	21
3/4"	27	50	3.2	43	28	26
1"	33	50	3.2	51	35	33
1 1/4"	42	50	4.8	64	44	41
1 1/2"	48	50	6.4	73	50	48
2"	60	63.5	7.9	92	62	60
2 1/2"	73	63.5	7.9	105	75	72
3"	89	63.5	9.5	127	91	88
3 1/2"	102	63.5	9.5	140	104	101
4"	114	76.2	11.1	157	117	114
5"	141	76.2	11.1	186	144	141
6"	168	88.9	12.7	216	171	168
8"	219	88.9	12.7	270	222	218
10"	273	101.6	12.7	324	277	272
12"	324	127	12.7	381	328	323
14"	356	355	12.7	413	360	355
16"	406	406	12.7	470	411	406
18"	457	457	12.7	533	462	456
20"	508	508	12.7	584	514	507
24"	610		12.7	692	616	609

Backing Flanges for NB Stub Ends

The main range of backing flanges we hold in stock to suit Type A Stub ends are:

ASA 150LB Lap Joint Hot Dipped Galvanised Full Thickness

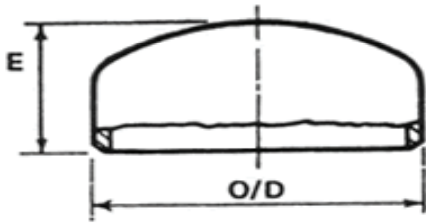


Please refer to the **Flange Tables** at the back of the **Brochure** for the full **list of dimensions**. Please bear in mind that the thickness of the backing flanges and the inside diameter of the flanges are different from those listed in the flange tables.

ASA 150LB	PIPE SIZE	Flange i/d	Thickness
		in mm	in mm
	1/2" NB	25.0	12.0
	3/4" NB	28.2	12.7
	1" NB	35.1	14.3
	1 1/4" NB	43.7	15.9
	1 1/2" NB	50.0	17.5
	2" NB	62.5	19.0
	2 1/2" NB	75.4	22.2
	3" NB	91.4	23.8
	4" NB	116.8	23.8
	5" NB	144.5	23.8
	6" NB	171.5	25.4
	8" NB	222.3	28.6
	10" NB	277.4	30.2
	12" NB	328.2	31.8
	14" NB	360.2	34.9
	16" NB	411.2	36.5
	18" NB	462.3	39.7
	20" NB	514.4	42.9
	24" NB	616.0	47.6

We also hold a limited range of **PN10** Hot dipped backing flanges for Type A Stub Ends and we can also offer to have backing flanges made to your exact requirements.

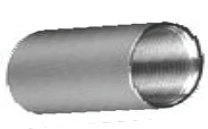
Dimensions of Nominal Bore End Caps



Nominal Pipe Size	Outside Diameter at Bevel	Length (E)	Limiting Wall Thickness for Length E
1/2"	21.34	25.4	3.73
3/4"	26.6	25.4	3.91
1"	33.4	38.1	4.55
1 1/4"	42.1	38.1	4.85
1 1/2"	48.1	38.1	5.08
2"	60.3	38.1	5.54
2 1/2"	73	38.1	7.01
3"	88.9	50.8	7.62
3 1/2"	101.6	63.5	8.08
4"	114.3	63.5	8.56
5"	141.3	76.2	9.53
6"	168.3	88.9	10.97
8"	219.1	101.6	12.7
10"	273	127	12.7
12"	323.8	152.4	12.7
14"	355.6	165.1	12.7
16"	406.4	177.8	12.7
18"	457.2	203.2	12.7
20"	508.8	228.6	12.7
24"	609.6	266.7	12.7
26"	660.4	266.7	
28"	711.2	266.7	
30"	762	266.7	
32"	812.8	266.7	
34"	863.6	266.7	
36"	914.4	266.7	
38"	965.2	304.8	
40"	1016	304.8	
42"	1066.8	304.8	

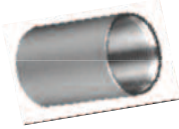
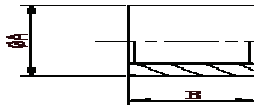
Stainless Steel Screwed 150lb Fittings

All supplied in Grade 316 Stainless Steel, full dimensions listed on the following pages.

Hex Nipple 	Weld Nipple 	Barrel Nipple 	Parallel Nipple 
Equal T 	Hex Union 	Half Socket 	Full Socket 
F-F 45 	F-F 90 	M-F Street 90 	Round Cap 
Reducing T 	Hex Reducing Bush 	Reducing Socket 	Reducing Nipple 
Hosetail 	Square Head Plug 	Hex Plug 	Hex Cap 
Hex Back Nut 	Red Bore Ball Valve 	Full Bore Ball Valve 	Cross 

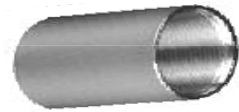
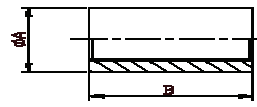
Stainless Steel BSP 150LB Fittings

Half Socket



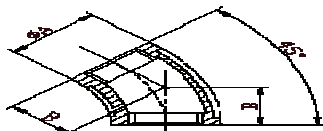
Size	A	B	Kg/100
1/8"	14	7	0.39
1/4"	18.5	11	0.94
3/8"	21.3	12	1.5
1/2"	26.4	15	2.7
3/4"	31.8	16	3.8
1"	39.5	20	6.1
1 1/4"	48.3	22	9.3
1 1/2"	54.5	22	11.6
2"	66.3	26	16.3
2 1/2"	82	30	22.3
3"	95	33	31.1
4"	122	39	53.1

Full Socket



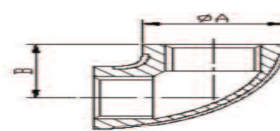
Size	A	B	Kg/100
1/8"	14	17	1
1/4"	18.5	25	2.2
3/8"	21.3	26	3.2
1/2"	26.4	34	6.3
3/4"	31.8	36	8.3
1"	39.5	43	15.2
1 1/4"	48.3	47	20.6
1 1/2"	54.5	48	25.3
2"	66.3	56	36.2
2 1/4"	76.2	38	39.4
2 1/2"	82	65	47.4
3"	95	71	66.1
4"	122	83	124.2

45 female/female



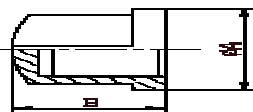
Size	A	B	Kg/100
1/8"	18	18	3
1/4"	21	19	5.5
3/8"	26	21	8.2
1/2"	31	22	10.9
3/4"	37	25	13.7
1"	45	31	23.2
1 1/4"	55	33	36.8
1 1/2"	62	37	46.9
2"	75	43	70.5
2 1/2"	87	49	86
3"	99	54	119.1
4"	125	65	267.6

90 femal/female



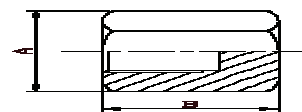
Size	A	B	Kg/100
1/8"	18	18	2.7
1/4"	21	20	3.8
3/8"	24	21	5.9
1/2"	29	27	9.5
3/4"	35	33	12.4
1"	43	38	21.4
1 1/4"	52	45	32.5
1 1/2"	58	50	40.3
2"	71	58	61
2 1/2"	87	69	106.2
3"	99	78	124.9
4"	125	97	356.2

Round Cap



Size	A	B	Kg/100
1/8"	18	15	1.7
1/4"	21	17	2.9
3/8"	24	17	3.6
1/2"	27	19	4.3
3/4"	35	24	11.7
1"	42	29	11.4
1 1/4"	52	32	17.6
1 1/2"	58	34	22.5
2"	69	38	36.1
2 1/2"	91	43	47
3"	106	48	80.3
4"	133	53	133.8

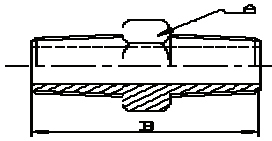
Hex Cap



Size	A	B	Kg/100
1/8"	15	13	1.6
1/4"	18	17	2.2
3/8"	21	19	4.3
1/2"	27	20	6.1
3/4"	30	24	9.4
1"	38	25	13
1 1/4"	50	28	23
1 1/2"	55	28	28.5
2"	70	34	55.9
2 1/2"	92	40	86.1
3"	109	45	108.4
4"	132	50	198.1

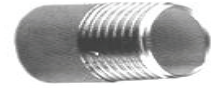
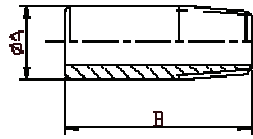
Stainless Steel BSP 150LB Fittings

Hex Nipple



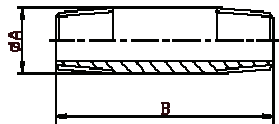
Size	A	B	Kg/100
1/8"	12	24	1.6
1/4"	16	28	2.2
3/8"	19	28	4
1/2"	22	34	7
3/4"	30	40	8.9
1"	36	46	14.1
1 1/4"	46	53	20.9
1 1/2"	50	54	30
2"	66	62	41.7
2 1/2"	80	70	75.4
3"	90	78	89.6
4"	120	94	133.8

Weld Nipple



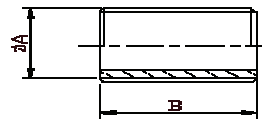
Size	A	B	Kg/100
1/8"	10.2	30	1.1
1/4"	13.5	30	1.7
3/8"	17.2	30	2.5
1/2"	21.3	35	3.8
3/4"	26.9	40	6.2
1"	33.7	40	8.8
1 1/4"	42.4	50	15
1 1/2"	48.3	50	16.8
2"	60.3	50	21.7
2 1/2"	76.1	60	31
3"	88.9	70	64.5
4"	114.3	80	104.4

Barrel Nipple



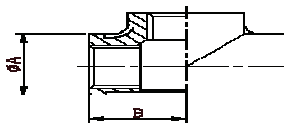
Size	A	B	Kg/100
1/8"	10.2	30	1.3
1/4"	13.5	30	2.1
3/8"	17.2	40	2.5
1/2"	21.3	60	6.6
3/4"	26.9	60	8.5
1"	33.7	60	12.9
1 1/4"	42.4	80	23.4
1 1/2"	48.3	80	25.2
2"	60.3	100	42.7
2 1/2"	76.1	100	90
3"	88.9	120	104.8
4"	114.3	120	138.1

Parallel Nipple



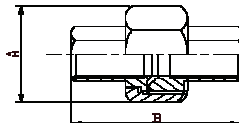
Size	A	B	Kg/100
1/8"	13.5	18	0.6
3/8"	17.2	22	0.9
1/2"	21.3	25	1.8
3/4"	26.9	30	2.7
1"	33.7	35	4.3
1 1/4"	42.4	38	6.5
1 1/2"	48.3	38	6.6
2"	60.3	45	11.9
2 1/2"	76.1	55	19.1
3"	88.9	60	26.4
4"	114.3	70	54.6

Equal T



Size	A	B	KG/100
1/8"	18	17	4.3
1/4"	21	21	5.4
3/8"	24	24	9.4
1/2"	29	27	11.8
3/4"	35	33	18.6
1"	43	38	31.1
1 1/4"	52	45	45.9
1 1/2"	58	50	66
2"	71	58	81.1
2 1/2"	87	69	187.7
3"	99	78	203
4"	125	97	398

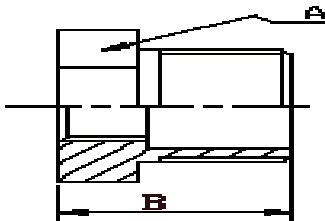
Hex Union Conical F-F



Size	A	B	KG/100
1/8"	25	31	10.5
1/4"	30	34	9.2
3/8"	35	38	14
1/2"	42	41	14
3/4"	47	43	21.4
1"	53	52	34.1
1 1/4"	71	55	50.3
1 1/2"	78	59	71.6
2"	92	66	99.1
2 1/2"	112	83	153.8
3"	126	92	203
4"	157	113	327

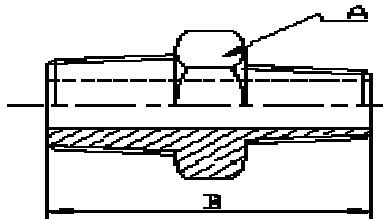
Stainless Steel BSP 150LB Fittings

Reducing Bush



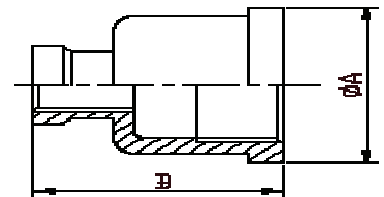
Size	A	B	Kg/100
1/4 x 1/8	16	15	1.2
3/8 X 1/8	18	17	2.4
3/8 X 1/4	18	17	1.8
1/2 X 1/8	26	21	4.3
1/2 X 1/4	26	21	3.8
1/2 X 3/8	26	21	2.3
3/4 X 1/4	30	24	6.7
3/4 X 3/8	30	24	6.1
3/4 X 1/2	30	24	5.2
1X 1/4	35	27	10.5
1 X 3/8	35	27	10.5
1 X 1/2	35	27	9
1X 3/4	35	27	7.8
1-1/4 X 3/8	45	30	16.6
1-1/4 X 1/2	45	30	18.6
1-1/4 X 3/4	45	30	17.9
1-1/4 X 1	45	30	12.8
1-1/2 X 1/2	52	36	23.2
1-1/2 X 3/4	52	36	22.6
1-1/2 X 1	52	36	20.3
1-1/2 X 1-1/4	52	36	14
2 X 1/2	63	36	38.8
2 X 3/4	63	36	44.5
2 X 1	63	36	38.6
2 X 1-1/4	63	36	34.4
2 X 1-1/2	63	36	29.3
2-1/2 X 1-1/2	81	45	65.4
2-1/2 X 2	81	45	51
3 X 1-1/2	95	47	97.2
3 X 2	95	47	85.5
3 X 2-1/2	95	47	71.8
4 X 2	119	52	178.2
4 X 2-1/2	119	52	160.5
4 X 3	119	52	121.8

Reducing Nipple



Size	A	B	Kg/100
1/4 X 1/8	18	34	2.3
3/8 X 1/8	21	36	3.2
3/8 X 1/4	21	34	3.7
1/2 X 1/8	26	34	4.8
1/2 X 1/4	26	34	4.6
1/2 X 3/8	26	41	5
3/4 X 1/4	30	37	8.7
3/4 X 3/8	30	37	9.6
3/4 X 1/2	30	45	8.5
1X 1/4	35	39	12
1 X 3/8	35	40	11.8
1 X 1/2	35	43	13.4
1X 3/4	37	50	13.3
1-1/4 X 1/2	46	48	22.8
1-1/4 X 3/4	46	52	18.2
1-1/4 X 1	46	54	24.4
1-1/2 X 1/2	50	49	25.1
1-1/2 X 3/4	50	53	24.5
1-1/2 X 1	50	53	26.7
1-1/2 X 1-1/4	50	59	26.1
2 X 1/2	63	52	32.3
2 X 3/4	63	56	32
2 X 1	63	57	43.3
2 X 1-1/4	63	58	35.9
2 X 1-1/2	64	64	39.9
2-1/2 X 1-1/2	80	66	72
2-1/2 X 2	76	77	74.7
3 X 1-1/2	95	72	96
3 X 2	95	74	94.8
3 X 2-1/2	95	84	107.7
4 X 2	125	82	196.6
4 X 2-1/2	125	82	175
4 X 3	117	94	160.1

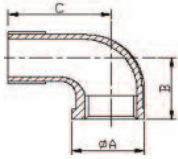
Reducing Sockets



Size	A	B	Kg/100
1/4 X 1/8	22	26	3.3
3/8 X 1/8	23	30	4.5
3/8 X 1/4	26	29	4.9
1/2 X 1/8	29	34	5.1
1/2 X 1/4	30	33	5.5
1/2 X 3/8	30	34	6.9
3/4 X 1/4	37	35	8.2
3/4 X 3/8	37	37	11.4
3/4 X 1/2	37	37	10.9
1X 1/4	44	42	12.8
1 X 3/8	44	42	14.5
1 X 1/2	44	43	13.4
1X 3/4	44	43	12.9
1-1/4 X 1/2	53	48	16.3
1-1/4 X 3/4	53	48	16.7
1-1/4 X 1	53	52	22.3
1-1/2 X 1/2	59	51	24
1-1/2 X 3/4	59	49	22.4
1-1/2 X 1	59	53	30.7
1-1/2 X 1-1/4	59	53	38.7
2 X 1/2	72	51	34
2 X 3/4	72	51	33.1
2 X 1	72	56	30.5
2 X 1-1/4	72	56	38.4
2 X 1-1/2	72	57	37
2-1/2 X 1-1/2	87	60	75
2-1/2 X 2	87	61	78.4
3 X 1-1/2	99	62	73.8
3 X 2	99	62	93.1
3 X 2-1/2	99	62	75.9
4 X 2	128	65	176.3
4 X 2-1/2	128	65	150
4 X 3	128	65	131.7

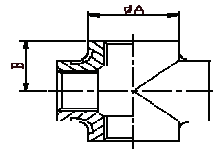
Stainless Steel BSP 150LB Fittings

M-F Street Elbow



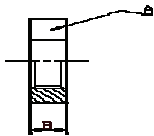
size	A	B	C
1/8"	15	19	26
1/4"	18	19	28
3/8"	23	23	35
1/2"	29	29	42
3/4"	35	33	51
1"	43	38	52
1 1/4"	52	45	60
1 1/2"	58	50	65
2"	71	58	74
2 1/2"	84	68	100
3"	96	78	116
4"	121	97	147

Cross



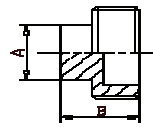
size	A	B	KG/100
1/8"	15	17	7.5
1/4"	20	19	9.8
3/8"	23	23	9.9
1/2"	28	27	15
3/4"	35	32	21.9
1"	44	38	35.3
1 1/4"	53	46	53.1
1 1/2"	58	48	64.3
2"	71	56	95.5
2 1/2"	87	69	234.4
3"	99	78	371.2
4"	125	97	580

Hex Back Nut



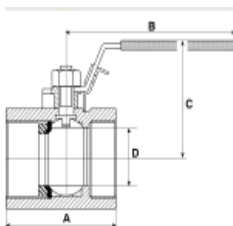
size	A	B	KG/100
1/8"	14	6	1
1/4"	23	7	1.9
3/8"	26	8	1.7
1/2"	31	10	2.6
3/4"	37	11	5.8
1"	46	10	7.1
1 1/4"	55	11	12.3
1 1/2"	63	12	14.8
2"	76	13	19.5
2 1/2"	95	16	33.8
3"	105	19	43
4"	131	20	88.7

Square Head Plug



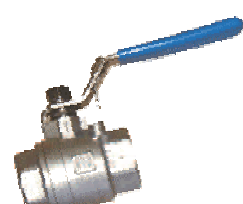
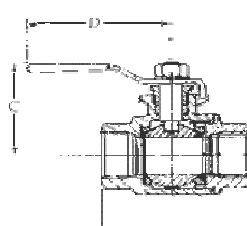
size	A	B	KG/100
1/8"	6	19	0.5
1/4"	9	20	1.4
3/8"	11	22	2
1/2"	13	25	3.5
3/4"	16	27	5.7
1"	20	32	10.3
1 1/4"	24	35	14.1
1 1/2"	25	37	17.1
2"	32	38	30.6
2 1/2"	42	48	35.9
3"	46	52	55
4"	58	62	105.5

Reduced Bore Ball Valve



Size	A	B	C	D
1/4"	39	61	33	5
3/8"	44	75	35	7
1/2"	56	89	42	9.2
3/4"	58	89	46	12.5
1"	70	106	50	16
1 1/4"	77	106	56	20
1 1/2"	82	128	66	24.5
2"	99	128	72	32

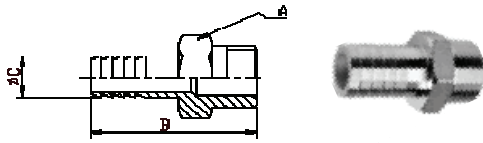
Full Bore Ball Valve



Size	A	B	C	D
1/4"	56	99	48	
3/8"	56	99	48	
1/2"	60	99	49	
3/4"	77	124	56	
1"	88	140	63	
1 1/4"	98	140	69	
1 1/2"	113	187	84	
2"	133	187	93	

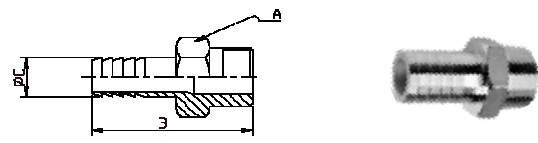
Stainless Steel BSP 150LB Fittings

BSP Hosetail



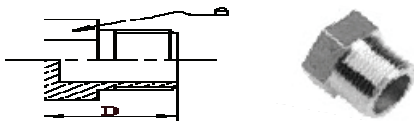
Size of Thread	Size C Hose	A	B	Kg/100
1/4"	6.3	17	47	2.8
1/4"	8	17	47	3.1
3/8"	9.5	20	55	4.5
1/2"	12.7	24	64	6.7
3/4"	19.05	31	68	12.2
1	25.4	39	71	17.4
1 1/4"	31.8	46	80	30.5
1 1/2"	38.1	52	95	38.9
2"	50.8	62	105	62.7
2 1/2"	63.5	80	107	104.6
3"	76.2	91	112	158
4"	101.6	117	130	215

BSP Reducing Hosetails



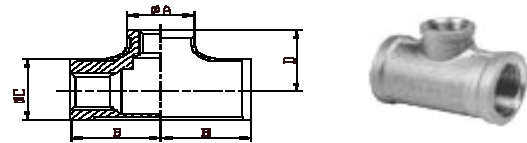
Size Thread	Size C Hose	A	B	Kg/100
1/8"	6.3	13	45	3
1/4"	9.5	17	47	4.2
1/4"	12.7	17	47	6.2
3/8"	12.7	20	55	6.5
1/2"	19.05	31	68	11.5
3/4"	25.4	39	71	16.5

BSP Hex Plug



Size	A	B
1/8"	12	17
1/4"	16	18
3/8"	20	18
1/2"	24	25
3/4"	30	26
1"	38	29
1 1/4"	46	35
1 1/2"	52	38
2"	65	39
2 1/2"	81	44
3"	94	54
4"	119	55

BSP Reducing Tees



Size	A	B	C	D
1/4 X 1/8	18	17	18	17
3/8 X 1/4	18	21	23.5	21
1/2 X 1/4	20.8	24	28.8	24
1/2 X 3/8	23.3	26	28.8	25
3/4 X 3/8	23.3	28	35.8	28
3/4 X 1/2	30	30	37	31
1 X 1/2	30.5	32	44	33
1 X 3/4	35.8	34	43.3	35
1-1/4 X 3/4	35.8	38	51.4	40
1-1/4 X 1	43.3	40	51.4	42
1-1/2 X 3/4	35.8	38	57.9	43
1-1/2 X 1	43.3	41	57.9	45
1-1/2 X 1-1/4	28.8	45	70.6	48
2 X 3/4	35.8	41	70.6	49
2 X 1	43.3	44	70.6	51
2 X 1-1/4	51.4	48	70.6	54
2 X 1-1/2	57.9	52	70.6	55

Stainless Steel Screwed NPT 3000 Fittings

NPT Hex Union

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



Half Coupling

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



Full Coupling

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



NPT Tee

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



NPT 90 Degree Elbow

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



NPT 45 Degree Elbow

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



NPT Pipe Nipple Threaded Both Ends

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



NPT Pipe Nipple Threaded One End

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



NPT Hex Nipple

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



NPT End Cap

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



NPT Hex Head Plug

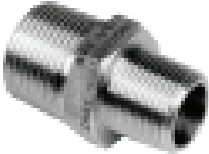
Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



Stainless Steel Screwed NPT 3000 Fittings

MATERIAL AVAILABLE IN GRADES 304L and 316L



HEX REDUCNG NIPPLE

3/8"	X	1/4"	
1/2"	X	1/4"	
1/2"	X	3/8"	
3/4"	X	3/8"	
3/4"	X	1/2"	
1"	X	1/2"	
1"	X	3/4"	
1 1/4"	X	1"	
1 1/2"	X	1/2"	
1 1/2"	X	3/4"	
1 1/2"	X	1"	
1 1/2"	X	1 1/4"	
2"	X	1/2"	
2"	X	3/4"	
2"	X	1"	
2"	X	1 1/4"	
2"	X	1 1/2"	



CON SWAGE NIPPLE

3/8"	X	1/4"
1/2"	X	1/4"
3/4"	X	1/2"
1"	X	1/2"
1"	X	3/4"
1 1/2"	X	1"
2"	X	1 1/2"



REDUCING COUPLING

3/8"	X	1/4"
1/2"	X	1/4"
1/2"	X	3/8"
3/4"	X	1/4"
3/4"	X	1/2"
1"	X	1/4"
1"	X	1/2"
1"	X	3/4"
1 1/4"	X	1"
1 1/2"	X	1/2"
1 1/2"	X	3/4"
1 1/2"	X	1"
1 1/2"	X	1 1/4"
2"	X	3/4"
2"	X	1"
2"	X	1 1/4"
2"	X	1 1/2"

Stainless Steel Socket Weld 3000 Fittings

MATERIAL AVAILABLE IN GRADES 304L and 316L

Socket Weld Half Coupling

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



Socket Weld Full Coupling

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



Socket Weld 90 Elbow

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



Socket Weld 45 Elbow

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



Socket Weld Equal Tee

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



Socket Weld Hex Union

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



Socket Weld Round Cap

Standard sizes available:

1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"



Socket Weld Reducing Socket

3/8"	x	1/4"
1/2"	x	1/4"
3/4"	x	1/2"
1"	x	1/2"
1"	x	3/4"
1 1/2"	x	3/4"
1 1/2"	x	1"
2"	x	1"
2"	x	1 1/2"



Stainless Steel Flanges

The **Flange Tables** on the following pages give a general overview of the basic flange dimensions from 1/2" NB to 24" NB. **We stock grades 304/304L and 316/316L**

We can also offer the full range of Plate Flanges see flange tables for details. If the flange dimensions you require are not listed we can offer a full bespoke flange service. Other Flanges available: Spectacle/Spectacle Blinds, Orifice, Ring Type Joint and Socket Weld Flanges.

SLIP ON



This type of Flange is slipped over the pipe and then fillet welded. Easy to use in fabricated applications.

WELD NECK



This type of flange is used in critical applications, circumferentially welded into the system at its neck, which means that the integrity of the butt-welded area can easily be examined by X-ray radiography. The bores of both pipe and flange match reducing turbulence and erosion.

BLIND



This type of flange is used for blanking off pipelines, valves and pumps and also as an inspection cover.

THREADED



This type of flange requires no welding and is used to connect other threaded components in low pressure non critical applications.

LAP JOINT



This type of flange is used with either a stub or a taft end which is welded to the pipe with the loose flange behind it. Easily assembled and aligned, it is favoured in low pressure applications.

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 15mm (1/2" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num- ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	80	55	4	M10	11	40	2	12
PN10	95	65	4	M12	14	45	2	14
PN16	95	65	4	M12	14	45	2	14
PN25	95	65	4	M12	14	45	2	14
PN40	95	65	4	M12	14	45	2	14
PN64	105	75	4	M12	14	45		
PN100	105	75	4	M12	14	45		
PN160	105	75	4	M12	14	45		
PN250	130	90	4	M16	18	45		
125/150	89	60	4	13	16	35	1.6	11
300	95	67	4	13	16	35	1.6	14.3
600	95	67	4	13	16	35	6.3	14.3
900	121	83	4	19	22	35	6.3	22
1500	121	83	4	19	22	35	6.3	22
Table A	95	67	4	13	14			4.76
Table D	95	67	4	13	14			4.76
TableE	95	67	4	13	14			6.35
Table F	95	67	4	13	14			9.53
TableH	114	83	4	16	17	57		
TableJ	114	83	4	16	17	57		
TableK	114	83	4	16	17	64		
TableR	114	83	4	16	17	64		
Table S	127	89	4	19	22	64		
TableT	140	102	4	19	22	64		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 20mm (3/4" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num-ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	90	65	4	M10	11	50	2	14
PN10	105	75	4	M12	14	58	2	16
PN16	105	75	4	M12	14	58	2	16
PN25	105	75	4	M12	14	58	2	16
PN40	105	75	4	M12	14	58	2	16
PN64	130	90	4	M16	18	58		
PN100	130	90	4	M16	18	58		
PN160	130	90	4	M16	18	58		
PN250	135	95	4	M18	18	58		
125/150	98	70	4	13	16	43	1.6	12.7
300	117	83	4	16	19	43	1.6	16
600	114	83	4	16	19	43	6.3	16
900	130	89	4	19	22	43	6.3	25
1500	130	89	4	19	22	43	6.3	25
Table A	102	73	4	13	14			4.75
Table D	102	73	4	13	14			4.75
TableE	102	73	4	13	14			6.35
Table F	102	73	4	13	14			9.53
TableH	114	83	4	16	17	57		
TableJ	114	83	4	16	17	57		
TableK	114	83	4	16	17	64		
TableR	114	83	4	16	17	64		
Table S	127	89	4	19	22	64		
TableT	140	102	4	19	22	64		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 25 mm (1" in)

TYPE OF FLANGE	Diameter of flange	Bolt circle diameter	Num-ber of bolts	Dia-meter of bolts	Dia-meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	100	75	4	M10	11	60	2	14
PN10	115	85	4	M12	14	88	2	16
PN16	115	85	4	M12	14	88	2	16
PN25	115	85	4	M12	14	68	2	16
PN40	115	85	4	M12	14	68	2	16
PN64	140	100	4	M16	18	68		
PN100	143	100	4	M16	18	68		
PN160	140	100	4	M16	18	68		
PN250	150	105	4	M20	22	68		
125/150	114	79	4	13	18	51	1.6	14
300	124	89	4	16	19	51	1.6	17
600	124	89	4	18	19	51	6.3	17
900	149	102	4	22	25	51	6.3	29
1500	149	102	4	22	25	51	6.3	29
Table A	114	83	4	13	14			4.75
TableD	114	83	4	13	14			4.75
Table E	114	83	4	13	14			7.14
Table F	121	87	4	16	17			9.53
Table H	121	87	4	16	17	64		
TableJ	121	87	4	16	17	64		
Table K	127	95	4	16	17	76		
TableR	127	95	4	16	17	76		
Table S	140	102	4	19	22	76		
TableT	146	114	4	19	22	76		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 32mm (1 1/4" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num-ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	120	90	4	M12	14	70	2	16
PN10	140	100	4	M16	18	78	2	18
PN16	140	100	4	M16	18	78	2	18
PN25	140	100	4	M16	18	78	2	18
PN40	140	100	4	M16	18	78	2	18
PN64	155	110	4	M20	22	78		
PN100	155	110	4	M20	22	78		
PN160	155	110	4	M20	22	78		
PN250	165	120	4	M20	22	78		
125/150	117	89	4	13	16	64	1.6	15.9
300	133	98	4	16	19	64	1.6	19
600	133	98	4	16	19	64	6.3	21
900	459	111	4	22	25	64	6.3	29
1500	159	111	4	22	25	64	6.3	29
Table A	121	87	4	13	14			6.35
Table D	121	87	4	13	14			6.35
Table E	121	87	4	13	14			7.93
Table F	133	98	4	16	17			12.7
Table H	133	98	4	16	17	76		
Table I	133	98	4	16	17	76		
Table J	133	98	4	16	17	76		
Table K	133	98	4	16	17	76		
Table R	133	98	4	16	17	76		
Table S	146	114	4	19	22	83		
Table T	159	121	4	22	25	83		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 40mm (1 1/2" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num-ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	130	100	4	M12	14	80	3	16
PN10	150	110	4	M16	18	88	3	18
PN16	150	110	4	M16	18	88	3	18
PN25	150	110	4	M16	18	88	3	18
PN40	150	110	4	M16	18	88	3	18
PN64	170	125	4	M20	22	88		
PN100	170	125	4	M20	22	88		
PN160	170	125	4	M20	22	88		
PN250	185	135	4	M24	26	88		
125/150	127	98	4	13	16	73	2	17.5
300	156	114	4	19	22	73	2	20.6
600	156	114	4	19	22	73	6	22.2
900	178	124	4	25	29	73	6	31.8
1500	178	124	4	25	29	73	6	31.8
Table A	133	98	4	13	14	.		6.35
Table D	133	98	4	13	14			6.35
Table E	133	98	4	13	14			8.7
Table F	140	105	4	16	17			12.7
Table H	140	105	4	16	17	83		
Table J	140	105	4	16	17	83		
Table K	152	114	4	19	22	89		
Table R	152	114	4	19	22	89		
Table S	159	121	4	19	22	89		
Table T	171	133	8	19	22	89		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 50mm (2" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num-ber of bolts	Dia- meter of bolts	Diameter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	140	110	4	M12	14	90	3	16
PN10	165	125	4	M16	18	102	3	20
PN16	165	125	4	M16	18	102	3	20
PN25	165	125	4	M16	18	102	3	20
PN40	165	125	4	M16	18	102	3	20
PN64	180	135	4	22	22	102		
PN100	195	145	4	26	26	102		
PN160	195	145	4	26	26	102		
PN250	200	150	4	26	26	102		
125/150	152	121	4	16	19	92	1.6	19
300	165	127	8	16	19	92	1.6	22
600	165	127	8	16	19	92	6.3	25
900	216	165	8	22	25	92	6.3	38
1500	216	165	8	22	25	92	6.3	38
Table A	152	114	4	16	17			7.93
Table D	152	114	4	16	17			7.93
Table E	152	114	4	16	17			9.53
Table F	165	127	4	16	17			15.88
Table H	165	127	4	16	17	102		
Table J	165	127	4	19	22	102		
Table K	165	127	8	16	17	102		
Table R	165	127	8	16	17	102		
Table S	171	133	8	19	22	89		
Table T	184	146	8	19	22	102		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 65mm (2 1/2" in)

Thype of Flange	Diameter of flange	Bolt circle diameter	Num- ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	160	130	4	M12	14	110	3	16
PN10	185	145	4	M16	18	122	3	20
PN16	185	145	4	M16	18	122	3	20
PN25	185	145	8	M16	18	122	3	22
PN40	185	145	8	M16	18	122	3	22
PN64	205	160	8	M20	22	122		
PN100	220	170	8	M24	26	122		
PN160	220	170	8	M24	26	122		
PN250	230	180	8	M24	26	122		
125/150	178	140	4	16	19	105	1.6	22.2
300	191	149	8	19	22	105	1.6	25.4
600	191	149	8	19	22	105	6.3	29
900	244	191	8	25	29	105	6.3	41
1500	244	191	8	25	29	105	6.3	41
Table A	165	127	4	16	17			7.93
Table D	165	127	4	16	17			7.93
TableE	165	127	4	16	17			10.3
Table F	184	146	8	16	17			16
TableH	184	146	8	16	17	114		
TableJ	184	146	8	19	22	114		
TableK	184	146	8	19	22	114		
TableR	184	146	8	19	22	114		
Table S	184	146	8	19	22	102		
TableT	203	165	8	22	25	114		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 80mm (3" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num- ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	190	150	4	M16	18	128	3	18
PN10	200	160	8	M16	18	138	3	20
PN16	200	160	8	M16	18	138	3	20
PN25	200	160	8	M16	18	138	3	24
PN40	200	160	8	M16	18	138	3	24
PN64	215	170	8	M20	22	138		
PN100	230	180	8	M24	26	138		
PN160	230	180	8	M24	26	138		
PN250	255	200	8	M27	30	138		
125/150	191	152	4	16	19	127	1.6	23.8
300	210	168	8	19	22	127	1.6	29
600	210	168	8	19	22	127	6.3	32
900	241	192	8	22	25	127	6.3	38
1500	267	203	8	29	32	127	6.3	48
Table A	184	146	4	16	17			9.53
Table D	184	146	4	16	17			9.53
Table E	184	146	4	16	17			11
Table F	203	165	8	16	17			16
Table H	203	165	8	16	17	127		
Table J	203	165	8	19	22	127		
Table K	203	165	8	19	22	127		
Table R	203	165	8	19	22	127		
Table S	203	165	8	22	25	114		
Table T	235	191	8	25	29	127		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 100mm (4" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num- ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	210	170	4	M16	18	148	3	18
PN10	220	180	8	M16	18	158	3	22
PN16	220	180	8	M16	18	158	3	22
PN25	235	190	8	M20	22	162	3	26
PN40	235	190	8	M20	22	162	3	26
PN64	250	200	8	M24	26	162		
PN100	265	210	8	M27	30	162		
PN160	265	210	8	M27	30	162		
PN250	300	230	8	M30	33	162		
125/150	229	191	8	16	19	157	1.6	24
300	254	200	8	19	22	157	1.6	32
600	273	216	8	22	25	157	6.3	38
900	292	235	8	29	32	157	6.3	44
1500	311	241	8	32	35	157	6.3	54
Table A	216	178	4	16	17			9.53
Table D	216	178	4	16	17			9.53
TableE	216	178	8	16	17			12.7
Table F	229	191	8	16	17			19
TableH	229	191	8	16	17	152		
TableJ	229	191	8	19	22	152		
TableK	241	197	8	22	25	152		
TableR	241	197	8	22	25	152		
Table S	248	203	8	25	29	159		
TableT	286	235	8	29	32	159		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 125mm (5" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num- ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	240	200	8	M16	18	175	3	20
PN10	250	210	8	M16	18	188	3	22
PN16	250	210	8	M16	18	188	3	22
PN25	270	220	8	M24	26	188	3	28
PN40	270	220	8	M24	26	188	3	28
PN64	295	240	8	M27	30	188		
PN100	315	250	8	M30	33	188		
PN160	315	250	8	M30	33	188		
PN250	340	275	12	M30	33	188		
125/150	254	216	8	19	22	186	1.6	24
300	279	235	8	19	22	186	1.6	35
600	330	267	8	25	29	186	6.3	44
900	349	279	8	32	35	186	6.3	51
1500	375	292	8	38	41	186	6.3	73
Table A	254	210	4	16	17			12.7
Table D	254	210	8	16	17			12.7
Table E	254	210	8	16	17			14.3
Table F	279	235	8	19	22			22
Table H	279	235	8	19	22	178		
Table J	279	235	8	22	25	178		
Table K	279	235	12	22	25	178		
Table R	279	235	12	22	25	178		
Table S	286	235	12	22	25	191		
Table T	324	273	12	29	32	210		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 150mm (6" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num-ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	265	225	8	M16	18	202	3	20
PN10	285	240	8	M20	22	212	3	24
PN16	285	240	8	M20	22	212	3	24
PN25	300	250	8	M24	26	218	3	30
PN40	300	250	8	M24	26	218	3	30
PN64	345	280	8	M30	33	218		
PN100	355	290	12	M30	33	218		
PN160	355	290	12	M30	33	218		
PN250	390	320	12	M33	36	218		
125/150	279	241	8	19	22	216	1.6	25
300	318	270	12	19	22	216	1.6	37
600	356	292	12	25	29	216	6.3	48
900	381	318	12	29	32	216	6.3	56
1500	394	318	12	35	38	216	6.3	83
Table A	279	235	4	16	17			12.7
Table D	279	235	8	16	17			12.7
Table E	279	235	8	19	22			17.46
Table F	305	260	12	19	22			22
Table H	305	260	12	19	22	210		
Table J	305	260	12	22	25	210		
Table K	305	260	12	22	25	210		
Table R	305	260	12	22	25	210		
Table S	324	273	12	25	29	210		
Table T	375	318	12	32	35	229		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 200mm (8" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num- ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	320	280	8	M16	18	258	3	22
PN10	340	295	8	M20	22	268	3	24
PN16	340	295	12	M20	22	268	3	26
PN25	360	310	12	M24	26	278	3	32
PN40	375	320	12	M27	30	285	3	36
PN64	415	345	12	M33	36	285		
PN100	430	360	12	M33	36	285		
PN160	430	360	12	M33	36	285		
PN250	485	400	12	M33	42	285		
125/150	343	298	8	19	22	270	1.6	29
300	381	330	12	22	25	270	1.6	41
600	419	349	12	29	32	270	6.3	56
900	470	394	12	35	38	270	6.3	64
1500	483	394	12	41	44	270	6.3	92
Table A	337	292	8	16	17			12.7
Table D	337	292	8	16	17			12.7
Table E	337	292	8	19	22			19.03
Table F	368	324	12	19	22			25.4
Table H	368	324	12	19	22	260		
Table J	368	324	12	22	25	260		
Table K	368	318	12	25	29	260		
Table R	368	324	12	25	29	260		
Table S	413	356	12	32	35	373		
Table T	476	406	12	38	41	298		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 250mm (10" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num-ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	375	335	12	M16	18	312	3	24
PN10	395	350	12	M20	22	320	3	26
PN16	405	355	12	M24	26	320	3	29
PN25	425	370	12	M27	30	335	3	35
PN40	450	385	12	M30	33	345	3	42
PN64	470	400	12	M33	36	345		
PN100	505	430	12	M36	39	345		
PN160	515	430	12	M39	42	345		
PN250	585	490	12	M45	48	345		
125/150	406	362	12	22	25	324	1.6	30
300	445	387	16	25	29	324	1.6	41
600	508	432	16	32	35	324	6.3	64
900	546	470	16	35	38	324	6.3	70
1500	584	483	12	41	51	324	6.3	108
Table A	406	356	8	19	22			15.88
Table D	406	356	8	19	22			15.88
Table E	406	356	12	19	22			22.2
Table F	432	381	12	22	25			28.5
Table H	432	381	12	22	25	311		
Table J	432	381	12	25	25	311		
Table K	432	381	16	25	29	311		
Table R	432	387.4	16	25	29	311		
Table S	483	425	16	32	35	330		
Table T	559	489	16	38	41	358		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 300mm (12" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num- ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	440	395	12	M20	22	365	4	24
PN10	445	400	12	M20	22	370	4	26
PN16	460	410	12	M24	26	378	4	32
PN25	485	430	16	M27	30	395	4	38
PN40	515	450	16	M30	33	410	4	40
PN64	530	460	16	M33	36	410		
PN100	585	500	16	M39	42	410		
PN160	585	500	16	M39	42	410		
PN250	690	590	16	M48	52	410		
125/150	483	432	12	22	25	381	1.6	32
300	521	451	16	29	32	381	1.6	51
600	559	489	20	32	35	381	6.3	67
900	610	533	20	35	38	381	6.3	80
1500	673	571	16	51	54	381	6.3	124
Table A	457	406	8	19	22			19.03
Table D	457	406	12	19	22			19.03
Table E	457	406	12	22	25			25.4
Table F	489	438	16	22	25			31.75
Table H	489	438	16	22	25	362		
Table J	489	438	16	25	29	362		
Table K	489	432	16	29	32	362		
Table R	508	457	16	29	32	362		
Table S	578	508	16	38	41	381		
Table T	654	572	16	44	48	413		

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 350mm (14" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num- ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	490	445	12	M20	22	415	4	26
PN10	505	460	16	M20	22	430	4	28
PN16	520	470	16	M24	26	438	4	35
PN25	555	490	16	M30	33	450	4	42
PN40	580	510	16	M33	36	465	4	54
PN64	600	525	16	M36	39	465		
PN100	655	560	16	M45	48	465		
PN160								
PN250								
125/150	533	476	12	25	29	413	1.6	35
300	584	514	20	29	32	413	1.6	54
600	603	527	20	35	38	413	6.3	70
900	641	559	20	38	41	413	6.3	86
1500	749	635	16	57	60	413	6.3	133
Table A	527	470		22	25			22.2
Table D	527	470	8	22	25			22.2
Table E	527	470	12	22	25			28.6
Table F	552	495	12	25	29			34.9
Table H	552	495	16	25	29	419		
Table J	552	495	16	29	32	419		
Table K	572	508	16	32	35	419		
Table R	584	527	16	32	35	419		
Table S	648	578	20	38	38	438		
Table T								

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 400mm (16" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num-ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	540	495	16	M20	22	465	4	28
PN10	565	515	16	M24	23	482	4	32
PN16	580	525	16	M27	30	490	4	38
PN25	620	550	16	M33	36	505	4	46
PN40	660	585	16	M36	39	535	4	60
PN64	670	585	16	M39	42	535		
PN100	715	620	16	M45	48	535		
PN160								
PN250								
125/150	597	540	16	25	29	470	1.6	37
300	648	572	20	32	35	470	1.6	57
600	686	603	20	38	41	470	6.3	76
900	705	616	20	41	44	470	6.3	89
1500	826	705	16	64	67	470	6.3	146
Table A	578	521	12	22	25			22.2
Table D	578	521	12	22	25			22.2
Table E	578	521	12	22	25			25
Table F	610	552	20	25	29			
Table H	610	552	20	25	29	483		
Table I	610	552	20	29	32	483		
Table K	629	565	20	32	35	483		
Table R	641	584	20	32	35	483		
Table S	743	660	20	44	48	495		
Table T								

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 450mm (18" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num- ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	595	550	16	M20	22	520	4	30
PN10	615	565	20	M24	26	532	4	38
PN16	640	585	20	M27	30	550	4	42
PN25	670	600	20	M33	36	555	4	50
PN40	685	610	20	M36	39	560	4	66
PN64								
PN100								
PN160								
PN250								
125/150	635	578	16	29	32	533	1.6	39.7
300	711	629	24	32	35	533	1.6	60.3
600	743	654	20	41	44	533	6.3	82.6
900	787	686	20	48	51	533	6.3	101.6
1500	914	775	16	70	73	533	6.3	161.9
Table A	641	584	12	22	25			25.4
Table D	641	584	12	22	25			25.4
Table E	641	584	16	22	25			34.9
Table F	673	610	20	29	32			
Table H	673	610	20	29	32	533		
Table J	673	610	20	32	35	533		
Table K	718	654	20	35	38	572		
Table R	737	673	20	35	38	572		
Table S								
Table T								

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 500mm (20" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num- ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	645	600	20	M20	22	570	4	30
PN10	670	620	20	M24	26	585	4	38
PN16	715	650	20	M30	33	610	4	46
PN25	730	660	20	M33	36	615	4	56
PN40	755	670	20	M39	42	615	4	72
PN64	800	705	20	M45	48	615		
PN100	870	760	20	M52	56	615		
PN160								
PN250								
125/150	699	635	20	29	32	584	1.6	42.9
300	775	686	24	32	35	584	1.6	63.5
600	813	724	24	41	44	584	6.3	88.9
900	857	749	20	51	54	584	6.3	107.9
1500	984	832	16	76	79	584	6.3	177.8
Table A	705	641	12	22	25			28.6
Table D	705	641	16	22	25			28.6
Table E	705	641	16	22	25			38.1
Table F	737	673	24	29	32			
Table H	737	673	24	29	32	597		
Table J	737	673	24	32	35	597		
Table K	787	711	20	38	41	622		
Table R	806	730	20	38	41	622		
Table S								
Table T								

Stainless Steel Flange Dimensions

Flange Tables

Nominal Size 600mm (24" in)

Type of Flange	Diameter of flange	Bolt circle diameter	Num- ber of bolts	Dia- meter of bolts	Dia- meter of holes	Diameter of raised face	Height of raised face	Thickness of flange
PN6	755	705	20	M24	26	670	5	32
PN10	780	725	20	M27	30	685	5	42
PN16	840	770	20	M33	36	725	5	52
PN25	845	770	20	M36	39	720	5	68
PN40	890	795	20	M45	48	735	5	84
PN64	930	820	20	M52	56	735		
PN100	990	875	20	M56	62	735		
PN160								
PN250								
125/150	813	749	20	32	35	692	1.6	47.6
300	914	813	24	38	41	692	1.6	69.8
600	940	838	24	48	51	692	6.3	101.6
900	1041	902	20	64	67	692	6.3	139.7
1500	1168	991	16	89	92	692	6.3	203.2
Table A	826	756	12	25	29			31.75
Table D	826	756	16	25	29			31.75
Table E	826	756	16	29	32			47.6
Table F	851	781	24	32	35			
Table H	851	781	24	32	35			
Table J	851	781	24	35	38			
Table K								
Table R								
Table S								
Table T								

Stainless Steel Grades

	International steel number/name			Typical composition, %					
	EN	ASTM	JIS	C	N	Cr	Ni	Mo	Other
Ferritic	1.4512	S40910	SUH 409L	0.02	-	12	-	-	Ti
	1.4000	410S	SUH 410S	0.04	-	12	-	-	-
	1.4016	430	SUS 430	0.04	-	16.5	-	-	-
	1.4510	S43035	SUS 430LX	0.04	-	18	-	-	Ti
Mart.	1.4021	S42010	SUS 420J1	0.20	-	13	-	-	-
	1.4028	420	SUS 420J2	0.30	-	12.5	-	-	-
	1.4018	-	-	0.03	0.04	16	5	1	-
Duplex	1.4362	S32304	-	0.02	0.10	23	4.5	0.3	-
	1.4460	S31200	SUS 329J1	0.02	0.09	25	5	1.5	-
	1.4462	S31803	-	0.02	0.17	22	5.7	3.1	-
	1.4410	S32750	-	0.02	0.27	25	7	4	-
Austenitic	1.4372	201	SUS 201	0.05	0.15	17	5	-	6.5Mn
	1.4310	301	SUS 301	0.10	0.04	17	7	-	-
	1.4307	304L	SUS 304L	0.02	0.06	18.3	9.2	-	-
	1.4301	304	SUS 304	0.04	0.06	18.3	8.7	-	-
	1.4311	304LN	SUS 304LN	0.02	0.14	18.3	8.7	-	-
	1.4541	321	SUS 321	0.04	0.01	17.3	9.2	-	Ti
	1.4305	303	SUS 303	0.07	0.06	18	8.5	-	S
	1.4567	S30430	SUS XM7	0.01	0.02	18	9	-	3.5Cu
	1.4306	304L	SUS 304L	0.02	0.06	18.3	10.2	-	-
	1.4303	305	SUS 305J1	0.02	0.02	18	11.5	-	-
	1.4404	316L	-	0.02	0.06	17.3	11	2.2	-
	1.4401	316	SUS 316	0.04	0.04	16.8	10.7	2.2	-
	1.4406	316LN	SUS 316LN	0.02	0.14	17.5	11	2.2	-
	1.4571	316Ti	SUS 316Ti	0.04	0.01	17	11	2.2	Ti
	1.4432	316L	-	0.02	0.06	17	11.7	2.7	-
	1.4436	316	SUS 316	0.04	0.06	17	11	2.7	-
	1.4435	316L	SUS 316L	0.02	0.6	17.3	12.7	2.7	-
	1.4438	317L	SUS 317L	0.02	0.08	18.3	12.2	3.2	-
	1.4434	317LN	SUS 317LN	0.02	0.12	17	11	3.2	-
	1.4439	S31726	-	0.02	0.14	17.3	12.7	4.2	-
	1.4539	N08904	-	0.01	0.06	20	25	4.5	1.5Cu
	1.4547	S31254	-	0.01	0.20	20	18	6.1	Cu
	1.4652	S32654	-	0.01	0.50	24	22	7.3	3.5Mn, Cu
	1.4948	304H	SUS 304	0.05	0.06	18.3	8.7	-	-
	1.4878	321H	SUS 321	0.05	0.01	17.3	9.2	-	Ti
	1.4818	S30415	-	0.05	0.15	18.3	9.5	-	1.3Si, Ce
	1.4833	309S	SUH 309	0.06	0.08	22.5	12.5	-	-
	1.4828	-	-	0.04	0.04	20	12	-	2Si
	1.4835	S30815	-	0.09	0.17	21	11	-	1.7Si, Ce
	1.4845	310S	SUH 310	0.05	0.06	25	20	-	-
	1.4854	S35315	-	0.05	0.15	25	35	-	1.5Si, Ce

VECINOX®

ENVIROSHIELD

STAINLESS STEEL GEL 4023

Cleaning product for austenitic stainless steel and aluminium, removes mild corrosion.

- Ideal for removal of corrosion caused by carbon steel particles and/or chlorides
- Also removes lime and other (non grease) contamination
- High viscosity, enables the product to stick on vertical surfaces
- Gives the surface a bright shine after it has been rinsed off



INTRODUCTION

VECINOX STAINLESS STEEL GEL 4023 is a post-treatment for austenitic stainless steel. It contains mineral acids and specific additives to ensure the best possible surface treatment without being harmful for its users.

APPLICATION

VECINOX STAINLESS STEEL GEL 4023 was developed to remove mild corrosion without having to use strong "mechanical force". Once applied and given the advised time to dissolve the corrosion, the product and corroded particles can be easily wiped off with a sponge. In cases of more heavy corrosion use the abrasive side of the sponge. Never use a metal sponge to remove corrosion.

GUIDE LINES

When a standard type of stainless is corroded (304 or 316), apply the product pure. To check whether your material is austenitic stainless steel, please hold a magnet to the surface. Austenitic steel is not magnetic. If the magnet sticks to the surface dilute the product 1:4 or 1:2 with water. If still a strong discoloration of the surface shows (it will become lighter) the product needs more dilution. Apply the product with brush or sponge. Use plastic or latex gloves to avoid skin irritation. After 15 – 20* minutes rinse off with (high pressure) water. If possible rinse finally with demineralised water to avoid water stains and contamination with chlorides and carbon steel particles present in tap water.

*) Contact period of product depends strongly on temperature of environment & surface. The proposed time is valid at a temperature of 15 – 20 °C.

- Every 5 °C lower: double time
- Every 10 °C higher: reduce time with 50%

PROPERTIES

Light orange to pink colored gel on mineral acid basis. Neutral smell.

Specific gravity (20 °C)	: 1,2
Flash point (PMCC)	: none
pH (1% solution)	: 1,7

NATURE OF SPECIAL RISKS AND SAFETY ADVICE

Please check material safety data sheet.

Wear plastic or latex gloves and safety glasses. In case of skin or eye contact rinse with plenty of water and consult a doctor.



*Stainless Bollard
Before treatment*



*After treatment with
stainless steel gel*

Available in 2, 20,
160 & 800 Kg.



Certificate of Registration

This certificate has been awarded to

Complete Stainless Ltd

36 Telford Road, Lenziemill Industrial Estate, Cumbernauld, G67 2AX, United Kingdom

in recognition of the organization's Quality Management System which complies with

ISO 9001:2008

The scope of activities covered by this certificate is defined below

The Provision of Specialist Stockholders and Polishers of Stainless Steel

Certificate Number:

53378/A/0001/UK/En

Date of Issue: (Original)

20 July 2012

Date of Issue:

20 July 2012

Issue No:

1

Expiry Date:

19 July 2015

Issued by:

On behalf of the Schemes Manager



It must be kept in mind as to the authenticity of this certificate, please do not hesitate to contact the Head Office of the Registrar of Systems, United Kingdom.

Page 1 of 1

COMPLETE STAINLESS LTD

36 Telford Road, Lenziemill Industrial Estate, Cumbernauld G67 2AX.

Telephone: 01236 738755 Fax: 01236 738744

Email: sales@completestainless.co.uk

www.completestainless.co.uk

Disclaimer: Amended Certificate. Original Document available on request