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CERTIFIED PRODUCTS FOR **DEMANDING** ENVIRONMENTS



Tubes | Flanges | Fittings | Valves | Gaskets | Bolting



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PIPEWORK SUPPLIES

Established in 2024, Pipework Supplies Limited is a trusted supplier of high-quality pipework products serving the petrochemical, chemical, oil and gas industries throughout the UK and internationally.

Based in North East Lincolnshire, we specialise in the supply of pipework, flanges, fittings, valves, gaskets and bolting, delivering reliable solutions for projects, shutdowns, maintenance and fabrication requirements.

At Pipework Supplies Limited, we pride ourselves on supplying fully certified and traceable materials to meet the demanding standards of the industries we serve. Our commitment to quality, reliability and customer service ensures our clients receive the right products, on time and to specification.

Working closely with trusted manufacturers and industry-leading partners, we provide a responsive and professional service tailored to the needs of each customer. Whether supporting large-scale industrial projects or urgent operational requirements, Pipework Supplies Limited is dedicated to delivering dependable supply solutions with efficiency, integrity and technical expertise.

STOCKISTS & DISTRIBUTORS OF:

- Pipework
- Flanges
- Fittings
- Valves
- Gaskets
- Bolting
- Specials



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CERTIFICATE OF REGISTRATION

The management system of certificate number **256856**

Pipework Supplies Limited

UNIT 54, Energy Park Way, Moody Lane, Grimsby, DN31 2TT, United Kingdom

has been assessed and certified as meeting the requirements of:

ISO 9001:2015

The supply of materials such as pipework, flanges and fittings, gaskets and bolting to the petrochemical, chemical and oil & gas industries within the UK

Further clarifications regarding the scope of this certificate and the applicability of requirements may be obtained by consulting the certifier.



Valid from:
Initial certification: 06 June 2024
Latest issue: 06 June 2024
Expiry date: 05 June 2027
Subject to annual assessments.

Authorised by



Mike Tims
Chief Executive Officer

british-assessment.co.uk

Certificate issued by Amtivo Group Limited T/A British Assessment Bureau Ltd.
Certification is conditional on maintaining the required performance standards throughout the certified period of registration.
Amtivo Group Limited. 30 Tower View, Kings Hill, Kent, ME19 4UY.



Steel Tubes

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Steel Tubes

Pipe Dimensions

Pipe Weights

The values and dimensions quoted on the following pages are for guidance only. For actual dimensions, tolerances and performance limitations reference should be made to relevant current standards or technical data.

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Nominal Wall Thickness for Schedule Sizes

Nominal Pipe Size	Outside Diameter	Schedule													
		5	10	20	30	40	STD	60	80	XS	100	120	140	160	XXS
3.17mm 1/8"	10.3mm 0.405"	-	-	-	-	1.73 0.068	1.73 0.068	-	2.41 0.095	2.41 0.095	-	-	-	-	-
6.35mm 1/4"	13.7mm 0.540"	1.20 0.049	1.72 0.065	-	-	2.24 0.088	2.24 0.088	-	3.02 0.119	3.02 0.119	-	-	-	-	-
9.52mm 3/8"	17.1mm 0.675"	1.20 0.049	1.72 0.065	-	-	2.31 0.091	2.31 0.091	-	3.20 0.126	3.20 0.126	-	-	-	-	-
12.7mm 1/2"	21.3mm 0.840"	1.72 0.065	2.11 0.083	-	-	2.77 0.109	2.77 0.109	-	3.73 0.147	3.73 0.147	-	-	-	4.78 0.187	7.47 0.294
19.1mm 3/4"	26.7mm 1.050"	1.72 0.065	2.11 0.083	-	-	2.87 0.113	2.87 0.113	-	3.91 0.154	3.91 0.154	-	-	-	5.54 0.218	7.82 0.308
25.4mm 1"	33.4mm 1.315"	1.72 0.065	2.77 0.109	-	-	3.38 0.133	3.38 0.133	-	4.55 0.179	4.55 0.179	-	-	-	6.35 0.250	9.09 0.358
31.8mm 1 1/4"	42.2mm 1.660"	1.72 0.065	2.77 0.109	-	-	3.56 0.140	3.56 0.140	-	4.85 0.191	4.85 0.191	-	-	-	6.35 0.250	9.70 0.382
38.1mm 1 1/2"	48.3mm 1.900"	1.72 0.065	2.77 0.109	-	-	3.68 0.145	3.68 0.145	-	5.08 0.200	5.08 0.200	-	-	-	7.10 0.281	10.16 0.400
50.8mm 2"	60.3mm 2.375"	1.72 0.065	2.77 0.109	-	-	3.91 0.154	3.91 0.154	-	5.54 0.218	5.54 0.218	-	-	-	8.74 0.343	11.07 0.436
63.5mm 2 1/2"	73.0mm 2.875"	2.11 0.083	3.04 0.120	-	-	5.16 0.203	5.16 0.203	-	7.01 0.276	7.01 0.276	-	-	-	9.52 0.375	14.02 0.552
76.1mm 3"	88.9mm 3.500"	2.11 0.083	3.04 0.120	-	-	5.49 0.216	5.49 0.216	-	7.62 0.300	7.62 0.300	-	-	-	11.13 0.438	15.24 0.600
88.9mm 3 1/2"	101.6mm 4.000"	2.11 0.083	3.04 0.120	-	-	5.70 0.226	5.70 0.226	-	8.10 0.318	8.10 0.318	-	-	-	-	15.91 0.636
101.6mm 4"	114.3mm 4.500"	2.11 0.083	3.04 0.120	-	-	6.02 0.237	6.02 0.237	7.1 0.281	8.56 0.337	8.56 0.337	-	11.13 0.438	-	13.49 0.531	17.12 0.674
127.0mm 5"	141.3mm 5.563"	2.77 0.109	3.38 0.134	-	-	6.55 0.258	6.55 0.258	-	9.52 0.375	9.52 0.375	-	12.7 0.500	-	15.88 0.625	19.1 0.750
152.4mm 6"	168.3mm 6.625"	2.77 0.109	3.38 0.134	-	-	7.11 0.280	7.11 0.280	-	10.97 0.432	10.97 0.432	-	14.28 0.562	-	18.26 0.718	21.95 0.864
203.2mm 8"	219.1mm 8.625"	2.77 0.109	3.73 0.148	6.35 0.250	7.04 0.277	8.18 0.322	8.18 0.322	10.31 0.406	12.7 0.500	12.7 0.500	15.08 0.593	18.26 0.718	20.63 0.812	23.0 0.906	22.22 0.875
254.0mm 10"	273.0mm 10.750"	3.38 0.134	4.08 0.165	6.35 0.250	7.80 0.307	9.27 0.365	9.27 0.365	12.7 0.500	15.08 0.593	12.7 0.500	18.26 0.718	21.43 0.843	25.4 1.000	28.58 1.125	25.4 1.000
304.8mm 12"	323.9mm 12.750"	3.96 0.156	4.55 0.180	6.35 0.250	8.38 0.330	10.31 0.406	9.52 0.375	14.28 0.562	17.48 0.687	12.7 0.500	21.43 0.843	25.4 1.000	28.58 1.125	32.0 1.312	25.4 1.000
355.6mm 14"	355.6mm 14"	-	6.35 0.250	8.0 0.312	9.52 0.375	11.07 0.437	9.52 0.375	15.08 0.593	19.1 0.750	12.7 0.500	23.8 0.937	27.0 1.093	31.75 1.250	35.71 1.406	-
406.4mm 16"	406.4mm 16"	-	6.35 0.250	8.0 0.312	9.52 0.375	12.7 0.500	9.52 0.375	16.66 0.656	21.4 0.843	12.7 0.500	26.19 1.031	30.95 1.218	36.51 1.437	40.48 1.593	-
457.2mm 18"	457.2mm 18"	-	6.35 0.250	8.0 0.312	11.07 0.437	14.28 0.562	9.52 0.375	19.1 0.750	23.8 0.937	12.7 0.500	29.3 1.156	34.92 1.375	39.6 1.562	45.24 1.781	-
508.0mm 20"	508.0mm 20"	-	6.35 0.250	9.52 0.375	12.7 0.500	15.08 0.593	9.52 0.375	20.62 0.812	26.19 1.031	12.7 0.500	32.51 1.280	38.1 1.500	44.5 1.750	50.0 1.968	-
609.6mm 24"	609.6mm 24"	-	6.35 0.250	9.52 0.375	14.28 0.562	17.48 0.687	9.52 0.375	24.6 0.968	30.95 1.218	12.7 0.500	38.89 1.531	46.03 1.812	52.38 2.062	59.53 2.343	-
762.0mm 30"	762.0mm 30"	6.35 0.250	8.0 0.312	12.7 0.500	15.88 0.625	-	9.52 0.375	-	-	12.7 0.500	-	-	-	-	-
914.4mm 36"	914.4mm 36"	-	8.0 0.312	12.7 0.500	15.88 0.625	19.1 0.750	9.52 0.375	-	-	12.7 0.500	-	-	-	-	-



Line Pipe Weights

Nominal Pipe Size	Outside Diameter	Schedule												
		STD	XS	XXS	10	20	30	40	60	80	100	120	140	160
1/2"	21.3	1.28	1.61	2.55	-	-	-	1.28	-	1.61	-	-	-	1.95
3/4"	26.7	1.70	2.19	3.64	-	-	-	1.70	-	2.19	-	-	-	2.88
1"	33.4	2.52	3.21	5.45	-	-	-	2.52	-	3.21	-	-	-	4.23
1 1/4"	42.2	3.43	4.51	7.77	-	-	-	3.43	-	4.51	-	-	-	5.60
1 1/2"	48.3	4.07	5.43	9.58	-	-	-	4.07	-	5.43	-	-	-	7.23
2"	60.3	5.42	7.43	13.47	-	-	-	5.42	-	7.43	-	-	-	11.10
2 1/2"	73.0	8.69	11.39	20.37	-	-	-	8.69	-	11.39	-	-	-	14.90
3"	88.9	11.31	15.24	27.63	-	-	-	11.31	-	15.24	-	-	-	21.30
4"	114.3	16.02	22.42	40.99	-	-	-	16.02	-	22.42	-	28.25	-	33.56
5"	141.3	21.92	30.88	57.56	-	-	-	21.92	-	30.88	-	40.28	-	49.17
6"	168.3	28.22	42.67	79.07	-	-	-	28.22	-	42.67	-	54.31	-	67.69
8"	219.1	42.65	64.64	107.79	-	33.57	36.61	42.65	53.04	64.64	75.97	90.62	100.84	111.23
10"	273.1	60.50	81.55	155.15	-	42.09	51.03	60.50	81.55	96.08	114.99	132.84	155.15	172.45
12"	323.9	73.65	97.46	186.97	-	50.11	65.35	79.71	109.18	132.23	159.65	186.97	208.27	238.11
14"	355.6	81.08	107.39	-	55.11	67.74	81.08	94.30	126.80	158.49	194.74	224.74	253.31	281.38
16"	406.4	92.98	123.30	-	63.13	77.63	92.98	123.30	160.50	203.19	245.66	287.00	332.62	365.46
18"	457.0	104.84	139.15	-	71.12	87.49	122.05	155.11	206.25	254.25	309.44	363.19	408.01	459.18
20"	508.0	116.78	155.12	-	79.16	116.78	155.12	183.55	247.60	311.31	381.04	440.93	507.54	564.14
24"	610.0	140.68	187.06	-	95.26	140.68	210.07	255.69	355.12	442.34	547.49	639.36	720.05	807.19

Useful Information:

To calculate the weight of a mild steel tube:

Outside diameter (mm) minus wall thickness (mm) multiplied by wall thickness (mm)
multiplied by 0.0246615 = Kg/metre.

$$\text{OD} - \text{WT} \times \text{WT} \times 0.0246615 = \text{Kg/m.}$$

This data is offered for guidance. For Specific information please refer to appropriate standard.



Weights & Dimensions of BS EN 10255 Tubes

Weights

Nominal Pipe Size		Blk S/S		Blk P/E		Galv S/S		Galv P/E	
		Medium	Heavy	Medium	Heavy	Medium	Heavy	Medium	Heavy
mm	in	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m
8	1/8"	0.65	0.77	0.64	0.77	0.68	0.80	0.67	0.79
10	1/4"	0.85	1.03	0.84	1.02	0.89	1.07	0.88	1.06
15	1/2"	1.22	1.45	1.21	1.44	1.27	1.5	1.26	1.49
20	3/4"	1.57	1.88	1.56	1.87	1.64	1.94	1.63	1.93
25	1"	2.43	2.96	2.41	2.94	2.51	3.04	2.49	3.02
32	1 1/4"	3.13	3.83	3.10	3.80	3.24	3.94	3.21	3.90
40	1 1/2"	3.61	4.42	3.57	4.38	3.73	4.54	3.69	4.50
50	2"	5.10	6.26	5.03	6.19	5.26	6.41	5.18	6.34
65	2 1/2"	6.55	8.05	6.43	7.93	6.75	8.25	6.63	8.12
80	3"	8.54	10.50	8.37	10.30	8.78	10.70	8.60	10.50
100	4"	12.50	14.80	12.20	14.50	12.80	15.10	12.50	14.80
125	5"	17.10	18.40	16.60	17.90	17.50	18.80	17.00	18.30
150	6"	20.30	21.9	19.70	21.30	20.80	22.30	20.20	21.70

Dimensions

Nominal Pipe Size		Outside Diameter		Thickness	
		Min	Max	Medium	Heavy
mm	in	mm	mm	mm	mm
8	1/8"	13.3	13.9	2.3	2.9
10	1/4"	16.8	17.4	2.3	2.9
15	1/2"	21.1	21.7	2.6	3.2
20	3/4"	26.6	27.2	2.6	3.2
25	1"	33.4	34.2	3.2	4.0
32	1 1/4"	42.1	42.9	3.2	4.0
40	1 1/2"	48.0	48.8	3.2	4.0
50	2"	59.8	60.8	3.6	4.5
65	2 1/2"	75.4	76.6	3.6	4.5
80	3"	88.1	89.5	4.0	5.0
100	4"	113.3	114.9	4.5	5.4
125	5"	138.7	140.6	5.0	5.4
150	6"	164.1	166.1	5.0	5.4

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Butt Weld Fittings

ANSI B16.9
BS1640

Dimensions & Weights

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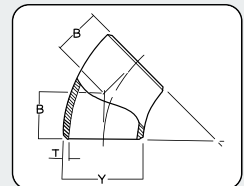
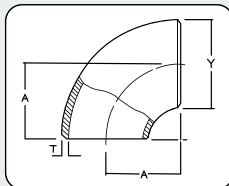
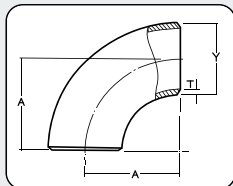
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Butt Weld Fittings to ANSI.B16.9 & BS1640: Long & Short Radius Elbows

Normal Paper Size		Outside Diameter Y	Wall Thickness T		45 Elbow Long Radius Centre to Face B	Approx Weight	90 Elbow Long Radius Centre to Face A	Approx Weight	90 Elbow Long Radius Centre to Face A	Approx Weight
mm	in	mm	mm	Schedule	mm	kg	mm	kg	mm	kg
15	1/2"	21.3	2.78	STD	15.9	0.04	38.1	0.08	-	-
-	-	-	3.73	X.S	15.9	0.05	38.1	0.10	-	-
20	3/4"	26.7	2.87	STD	11.1	0.04	28.6	0.08	-	-
-	-	-	3.91	X.S	11.1	0.05	28.6	0.11	-	-
25	1"	33.4	3.38	STD	22.2	0.09	38.1	0.15	25.4	0.11
-	-	-	4.55	X.S	22.2	0.11	38.1	0.19	25.4	0.14
32	1 1/4"	42.2	3.56	STD	25.4	0.14	47.6	0.28	31.75	0.18
-	-	-	4.85	X.S	25.4	0.2	47.6	0.39	31.75	0.24
40	1 1/2"	48.3	3.68	STD	28.6	0.2	57.1	0.4	38.1	0.26
-	-	-	5.08	X.S	28.6	0.25	57.1	0.5	38.1	0.35
50	2"	60.3	3.91	STD	34.9	0.36	76.2	0.72	50.8	0.5
-	-	-	5.54	X.S	34.9	0.5	76.2	1.0	50.8	0.68
65	2 1/2"	73.0	5.16	STD	44.4	0.73	95.2	1.46	63.5	0.95
-	-	-	7.01	X.S	44.4	0.91	95.2	1.82	63.5	1.27
80	3"	88.9	5.49	STD	50.8	1.1	114.3	2.18	76.2	1.45
-	-	-	7.62	X.S	50.8	1.45	114.3	2.86	76.2	1.95
100	4"	114.3	6.02	STD	63.5	2.1	152.4	4.2	101.6	2.8
-	-	-	8.56	X.S	63.5	2.9	152.4	5.7	101.6	3.9
125	5"	141.3	6.65	STD	79.4	3.4	190.0	6.8	127.0	4.8
-	-	-	9.5	X.S	79.4	5.0	190.0	10	127.0	6.5
150	6"	168.3	7.11	STD	95.2	5.1	229.0	10.1	152.4	6.8
-	-	-	10.97	X.S	95.2	7.7	229.0	15.3	152.4	10.2
200	8"	219.1	8.18	STD	127.0	10.2	305.0	20.4	203.0	13.6
-	-	-	12.7	X.S	127.0	15.5	305.0	30.9	203.0	20.9
250	10"	273.9	9.27	STD	159.0	18.1	381.0	36.1	254.0	24.1
-	-	-	12.7	X.S	159.0	24.4	381.0	48.8	254.0	32.5
300	12"	323.9	9.52	STD	190.0	26.6	457.0	53.1	305.0	35.4
-	-	-	12.7	X.S	190.0	35.0	457.0	70.0	305.0	46.7
350	14"	355.6	9.52	STD	222.0	34.1	533.0	68.1	356.0	45.4
-	-	-	12.7	X.S	222.0	45.0	533.0	90.0	356.0	60.0
400	16"	406.4	9.52	STD	254.0	45.0	610.0	89.3	406.0	59.5
-	-	-	12.7	X.S	254.0	59.0	610.0	118.0	406.0	78.7
450	18"	457.0	9.52	STD	286.0	56.5	686.0	113.0	457.0	75.6
-	-	-	12.7	X.S	286.0	75.0	686.0	150.0	457.0	100.0
500	20"	508.0	9.52	STD	318.0	85.0	762.0	140.0	508.0	93.5
-	-	-	12.7	X.S	318.0	112.5	762.0	186.0	508.0	124.0
600	24"	610.0	9.52	STD	381.0	101.5	914.0	203.0	610.0	135.0
-	-	-	12.7	X.S	381.0	134.5	914.0	269.0	610.0	179.0



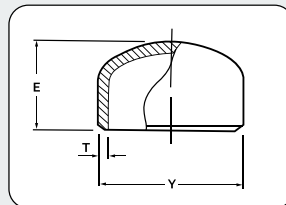
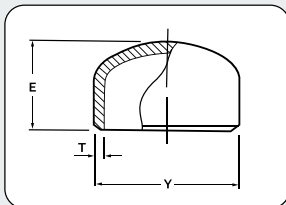
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Butt Weld Fittings to ANSI.B16.9 & BS1640: EQ Tees & Caps

Normal Paper Size		Outside Diameter Y	Wall Thickness T		Tees (CBM)	Approx Weight	Caps End to E	Approx Weight
mm	in	mm	mm	Schedule	mm	mm	mm	kg
15	1/2"	21.3	2.78	STD	25.4	0.58	-	-
-	-	-	3.73	X.S	25.4	0.21	-	-
20	3/4"	26.7	2.87	STD	28.6	0.21	-	-
-	-	-	3.91	X.S	28.6	0.27	-	-
25	1"	33.4	3.38	STD	38.1	0.34	38.1	0.1
-	-	-	4.55	X.S	38.1	0.43	38.1	0.14
32	1 1/4"	42.2	3.56	STD	47.6	0.64	38.1	0.14
-	-	-	4.85	X.S	47.6	0.75	38.1	0.18
40	1 1/2"	48.3	3.68	STD	57.1	0.95	38.1	0.18
-	-	-	5.08	X.S	57.1	1.13	38.1	0.23
50	2"	60.3	3.91	STD	63.5	1.45	38.1	0.27
-	-	-	5.54	X.S	63.5	1.72	38.1	0.32
65	2 1/2"	73.0	5.16	STD	76.2	2.45	38.1	0.41
-	-	-	7.01	X.S	76.2	2.95	38.1	0.45
80	3"	88.9	5.49	STD	85.7	3.45	50.8	0.64
-	-	-	7.62	X.S	85.7	4.3	50.8	0.82
100	4"	114.3	6.02	STD	105.0	5.7	63.5	1.13
-	-	-	8.56	X.S	105.0	7.3	63.5	1.54
125	5"	141.3	6.65	STD	124.0	9.1	76.2	1.91
-	-	-	9.5	X.S	124.0	11.8	76.2	2.59
150	6"	168.3	7.11	STD	143.0	13.6	88.9	2.95
-	-	-	10.97	X.S	143.0	19.0	88.9	4.1
200	8"	219.1	8.18	STD	178.0	25.0	101.6	5.0
-	-	-	12.7	X.S	178.0	33.5	101.6	7.3
250	10"	273.0	9.27	STD	216.0	41.0	127.0	9.1
-	-	-	12.7	X.S	216.0	54.0	127.0	12.0
300	12"	323.9	9.52	STD	254.0	57.0	152.4	13.6
-	-	-	12.7	X.S	254.0	77.0	152.4	17.0
350	14"	355.6	9.52	STD	279.0	73.0	165.1	15.9
-	-	-	12.7	X.S	279.0	93.0	165.1	21.0
400	16"	406.4	9.52	STD	305.0	91.0	178.8	20.0
-	-	-	12.7	X.S	305.0	120.0	178.8	26.0
450	18"	457.0	9.52	STD	343.0	127.0	203.2	26.0
-	-	-	12.7	X.S	343.0	165.0	203.2	34.0
500	20"	508.0	9.52	STD	381.0	227.0	228.6	33.0
-	-	-	12.7	X.S	381.0	270.0	228.6	43.0
600	24"	610.0	9.52	STD	432.0	345.0	266.7	46.0
-	-	-	12.7	X.S	432.0	430.0	266.7	61.0



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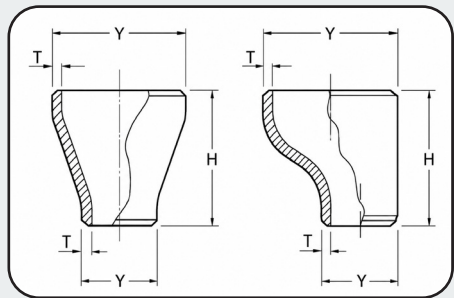
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Butt Weld Fittings to ANSI.B16.9 & BS1640: Concentric & Eccentric Reducers

Normal Paper Size Y		Length H	Schedule T	Approx Weight
mm	in	mm		kg
20 x 15	3/4" x 1/2"	38.1	STD	0.07
-	-	-	X.S	0.1
25 x 15	1" x 1/2"	50.8	STD	0.14
-	-	-	X.S	0.18
25 x 20	1" x 3/4"	50.8	STD	0.14
-	-	-	X.S	0.18
32 x 15	1 1/4" x 1/2"	50.8	STD	0.18
-	-	-	X.S	0.23
32 x 20	1 1/4" x 3/4"	50.8	STD	0.18
-	-	-	X.S	0.23
32 x 25	1 1/4" x 1"	50.8	STD	0.18
-	-	-	X.S	0.23
40 x 15	1 1/2" x 1/2"	63.5	STD	0.27
-	-	-	X.S	0.32
40 x 20	1 1/2" x 3/4"	63.5	STD	0.27
-	-	-	X.S	0.32
40 x 25	1 1/2" x 1"	63.5	STD	0.27
-	-	-	X.S	0.32
40 x 32	1 1/2" x 1 1/4"	63.5	STD	0.27
-	-	-	X.S	0.32
50 x 15	2" x 1/2"	76.2	STD	0.41
-	-	-	X.S	0.54
50 x 20	2" x 3/4"	76.2	STD	0.41
-	-	-	X.S	0.54
50 x 25	2" x 1"	76.2	STD	0.41
-	-	-	X.S	0.54
50 x 32	2" x 1 1/4"	76.2	STD	0.41
-	-	-	X.S	0.54
50 x 40	2" x 1 1/2"	76.2	STD	0.41
-	-	-	X.S	0.54
65 x 25	2 1/2" x 1"	88.9	STD	0.68
-	-	-	X.S	0.91
65 x 32	2 1/2" x 1 1/4"	88.9	STD	0.68
-	-	-	X.S	0.91

Normal Paper Size Y		Length H	Schedule T	Approx Weight
mm	in	mm		kg
65 x 40	2 1/2" x 1 1/2"	88.9	STD	0.68
-	-	-	X.S	0.91
65 x 50	2 1/2" x 2"	88.9	STD	0.68
-	-	-	X.S	0.91
80 x 40	3" x 1 1/2"	88.9	STD	0.77
-	-	-	X.S	1.09
80 x 50	3" x 2"	88.9	STD	0.91
-	-	-	X.S	1.22
80 x 65	3" x 2 1/2"	88.9	STD	0.91
-	-	-	X.S	1.27
100 x 40	4" x 1 1/2"	101.6	STD	1.36
-	-	-	X.S	1.91
100 x 50	4" x 2"	101.6	STD	1.4
-	-	-	X.S	1.95
100 x 65	4" x 2 1/2"	101.6	STD	1.45
-	-	-	X.S	2.04
100 x 80	4" x 3"	101.6	STD	1.59
-	-	-	X.S	2.08
125 x 80	5" x 3"	127.0	STD	2.5
-	-	-	X.S	3.4
125 x 100	5" x 4"	127.0	STD	2.7
-	-	-	X.S	3.8
150 x 50	6" x 2"	140.0	STD	3.4
-	-	-	X.S	4.3
150 x 65	6" x 2 1/2"	140.0	STD	3.4
-	-	-	X.S	4.5
150 x 80	6" x 3"	140.0	STD	3.6
-	-	-	X.S	4.8
150 x 100	6" x 4"	140.0	STD	3.7
-	-	-	X.S	5.2
150 x 125	6" x 5"	140.0	STD	3.9
-	-	-	X.S	5.4

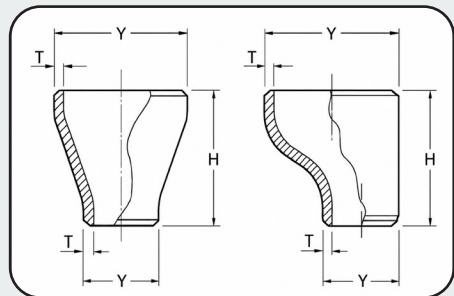




Butt Weld Fittings to ANSI.B16.9 & BS1640: Concentric & Eccentric Reducers

Normal Paper Size Y		Length H	Schedule T	Approx Weight
mm	in	mm		kg
200 x 80	8" x 3"	152.4	STD	4.5
-	-	-	X.S	7.2
200 x 100	8" x 4"	152.4	STD	5.0
-	-	-	X.S	7.7
200 x 125	8" x 5"	152.4	STD	5.4
-	-	-	X.S	8.2
200 x 150	8" x 6"	152.4	STD	5.9
-	-	-	X.S	8.6
250 x 100	10" x 4"	178.0	STD	9.1
-	-	-	X.S	11.8
250 x 125	10" x 5"	178.0	STD	9.5
-	-	-	X.S	13.6
250 x 150	10" x 6"	178.0	STD	9.5
-	-	-	X.S	13.6
250 x 200	10" x 8"	178.0	STD	10.0
-	-	-	X.S	14.0
300 x 150	12" x 6"	203.0	STD	14.1
-	-	-	X.S	18.1
300 x 200	12" x 8"	203.0	STD	14.5
-	-	-	X.S	19.1
300 x 250	12" x 10"	203.0	STD	15.4
-	-	-	X.S	20.0
350 x 200	14" x 8"	330.0	STD	26.3
-	-	-	X.S	34.9
350 x 250	14" x 10"	330.0	STD	27.2
-	-	-	X.S	36.3
350 x 300	14" x 12"	330.0	STD	28.6
-	-	-	X.S	37.6
400 x 200	16" x 8"	356.0	STD	31.8
-	-	-	X.S	42.6
400 x 250	16" x 10"	356.0	STD	33.1
-	-	-	X.S	43.5
400 x 300	16" x 12"	356.0	STD	34.5
-	-	-	X.S	45.4

Normal Paper Size Y		Length H	Schedule T	Approx Weight
mm	in	mm		kg
400 x 350	16" x 14"	356.0	STD	35.4
-	-	-	X.S	46.3
450 x 250	18" x 10"	381.0	STD	38.0
-	-	-	X.S	52.1
450 x 300	18" x 12"	381.0	STD	39.0
-	-	-	X.S	53.5
450 x 350	18" x 14"	381.0	STD	40.0
-	-	-	X.S	54.9
450 x 400	18" x 16"	381.0	STD	40.8
-	-	-	X.S	53.5
500 x 250	20" x 10"	508.0	STD	53.0
-	-	-	X.S	79.9
500 x 300	20" x 12"	508.0	STD	54.4
-	-	-	X.S	82.0
500 x 350	20" x 14"	508.0	STD	57.6
-	-	-	X.S	80.2
500 x 400	20" x 16"	508.0	STD	58.9
-	-	-	X.S	82.0
500 x 450	20" x 18"	508.0	STD	61.7
-	-	-	X.S	82.0
600 x 300	24" x 12"	508.0	STD	63.5
-	-	-	X.S	84.4
600 x 350	24" x 14"	508.0	STD	65.3
-	-	-	X.S	86.8
600 x 400	24" x 16"	508.0	STD	68.0
-	-	-	X.S	90.4
600 x 450	24" x 18"	508.0	STD	72.6
-	-	-	X.S	96.5
600 x 500	24" x 20"	508.0	STD	77.1
-	-	-	X.S	102.5







Flanges

Dimensions & Weights

ANSI B16.5

BS EN1092-1 (BS 4504)

BS10

The values and dimensions quoted on the following pages are for guidance only. For actual dimensions, tolerances and performance limitations reference should be made to relevant current standards or technical data.

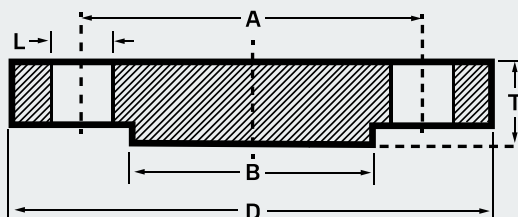
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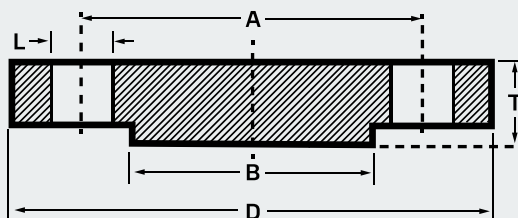


Raised face on Metric and ANSI Only

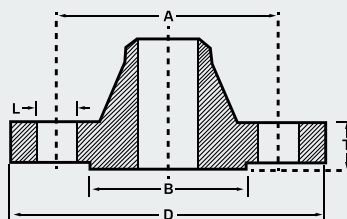
Plate Slip on Flange



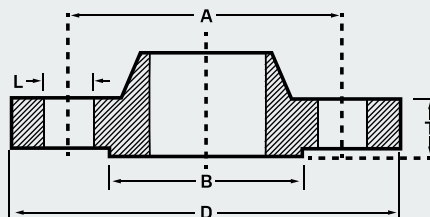
Blind Flange



Weld Neck Flange



Bossed Slip on Flange





Flanges: BS10 BS EN1092-1

Nominal Paper Size		Flange Rating	Diameter of Flange D	Bolt Circle Diameter A	Number of Bolts	Bolt Diameter	Diameter of Holes L	Diameter of Raised Face B	Thickness of Flange T		
									Forged	Plate	Blind
mm	in		mm	mm		mm	mm	mm	mm	mm	mm
15	1/2"	D	95	67	4	M12	14	-	4.8	4.8*	4.8*
		E	95	67	4	M12	14	-	6.3	4.8*	6.3*
		F	95	67	4	M12	14	-	9.5	9.5*	9.5*
		PN6	80	55	4	M10	11	40	12	12	12
		PN16	95	65	4	M12	14	45	14	14	14
		PN40	95	65	4	M12	14	45	16	14	16
20	3/4"	D	102	73	4	M12	14	-	4.8	4.8*	4.8*
		E	102	73	4	M12	14	-	6.3	6.7*	6.3*
		F	102	73	4	M12	14	-	9.5	9.5*	9.5*
		PN6	90	65	4	M10	11	50	14	14	14
		PN16	105	75	4	M12	14	58	16	16	16
		PN40	105	75	4	M12	14	58	18	14	18
25	1"	D	114	83	4	M12	14	-	4.8	4.8*	4.8*
		E	114	83	4	M12	14	-	7.1	7.1*	7.1*
		F	121	87	4	M16	19	-	9.5	9.5*	9.5*
		PN6	100	75	4	M10	11	60	14	14	14
		PN16	115	85	4	M12	14	68	16	16	16
		PN40	115	85	4	M12	14	68	18	14	18
32	1 1/4"	D	121	87	4	M12	14	-	6.3	6.3*	6.3*
		E	121	87	4	M12	14	-	8	8*	8*
		F	133	98	4	M16	17	-	12.5	12.5	12.5
		PN6	120	90	4	M12	14	70	14	16	14
		PN16	140	100	4	M16	18	78	16	18	16
		PN40	140	100	4	M16	18	78	18	18	18
40	1 1/2"	D	133	98	4	M12	14	-	6.3	6.3*	6.3*
		E	133	98	4	M12	14	-	8	8.7*	8.7*
		F	140	105	4	M16	17	-	12.5	12.5	12.5
		PN6	130	100	4	M12	14	80	14	16	14
		PN16	150	110	4	M16	18	88	16	18	16
		PN40	150	110	4	M16	18	88	18	18	18
50	2"	D	152	114	4	M16	17	-	8	8*	8*
		E	152	114	4	M16	17	-	9.5	9.5*	9.5*
		F	165	127	4	M16	17	-	15.9	15.9	15.9
		PN6	140	110	4	M12	14	90	14	16	14
		PN16	165	125	4	M16	18	102	18	20	18
		PN40	165	125	4	M16	18	102	20	20	20

* These Flanges will normally be supplied 12.5 mm thick



Flanges: BS10 BS EN1092-1

Nominal Paper Size		Flange Rating	Diameter of Flange D	Bolt Circle Diameter A	Number of Bolts	Bolt Diameter	Diameter of Holes L	Diameter of Raised Face B	Thickness of Flange T		
									Forged	Plate	Blind
mm	in		mm	mm		mm	mm	mm	mm	mm	mm
65	2 1/2"	D	165	127	4	M16	17	-	8	8*	8*
		E	165	127	4	M16	17	-	11	11*	11*
		F	184	146	8	M16	17	-	16	16	16
		PN6	160	130	4	M12	14	110	14	16	14
		PN16	185	145	4	M16	18	122	18	20	18
		PN40	185	145	8	M16	18	122	22	22	22
80	3"	D	184	146	4	M16	17	-	10	10*	10*
		E	184	146	4	M16	17	-	11	11*	11*
		F	203	165	8	M16	17	-	16	16	16
		PN6	190	150	4	M16	18	128	16	18	16
		PN16	200	160	8	M16	18	138	20	20	20
		PN40	200	160	8	M16	18	138	24	24	24
100	4"	D	216	178	4	M16	17	-	10	10*	10*
		E	216	178	8	M16	17	-	14	14	14
		F	229	191	8	M16	17	-	19	19	19
		PN6	210	170	4	M16	18	148	16	18	16
		PN16	220	180	8	M16	18	158	20	22	20
		PN40	235	190	8	M20	22	162	24	26	24
125	5"	D	254	210	8	M16	17	-	12.7	12.7	12.7
		E	254	210	8	M16	17	-	14.3	14.3	14.3
		F	279	235	8	M20	22	-	22.2	22.2	22.2
		PN6	240	200	8	M16	18	178	18	20	18
		PN16	250	210	8	M16	18	188	22	22	22
		PN40	270	220	8	M24	26	188	26	28	26
150	6"	D	279	235	8	M16	17	-	12.7	12.7	12.7
		E	279	235	8	M20	22	-	17.5	17.5	17.5
		F	305	260	12	M20	22	-	22.2	22.2	22.2
		PN6	265	225	8	M16	18	202	18	20	18
		PN16	285	240	8	M20	22	212	22	24	22
		PN40	300	250	8	M24	26	218	28	30	28
200	8"	D	337	292	8	M16	17	-	12.7	12.7	12.7
		E	337	292	8	M20	22	-	19	19	19
		F	368	324	12	M20	22	-	25.4	25.4	25.4
		PN6	320	280	8	M16	18	148	20	22	20
		PN10	340	295	8	M20	22	268	24	24	24
		PN16	340	295	12	M20	22	268	24	26	24
		PN25	360	310	12	M24	26	278	30	32	30
		PN40	375	320	12	M27	30	162	34	36	34

* These Flanges will normally be supplied 12.5 mm thick

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Flanges: BS10 BS EN1092-1

Nominal Paper Size		Flange Rating	Diameter of Flange D	Bolt Circle Diameter A	Number of Bolts	Bolt Diameter	Diameter of Holes L	Diameter of Raised Face B	Thickness of Flange T		
									Forged	Plate	Blind
mm	in		mm	mm		mm	mm	mm	mm	mm	mm
250	10"	D	406	356	8	M20	22	-	16	16	16
		E	406	356	12	M20	22	-	22	22	22
		F	432	381	12	M22	25	-	29	29	29
		PN6	375	335	12	M16	18	312	22	24	22
		PN10	395	350	12	M20	22	320	26	26	26
		PN16	405	355	12	M24	26	320	26	29	26
		PN25	425	370	12	M27	30	335	32	35	32
		PN40	450	385	12	M30	33	345	38	42	38
300	12"	D	457	406	12	M20	22	-	19	19	19
		E	457	406	12	M22	25	-	25	25	25
		F	489	438	16	M22	25	-	32	32	32
		PN6	440	395	12	M20	22	365	22	24	22
		PN10	445	400	12	M20	22	370	26	26	26
		PN16	460	410	12	M24	26	378	28	32	28
		PN25	485	430	16	M27	30	395	34	38	34
		PN40	575	450	16	M30	33	410	42	48	42
350	14"	PN6	490	445	12	M20	22	415	22	26	22
		PN10	505	460	16	M20	22	430	26	28	26
		PN16	520	470	16	M24	26	438	30	35	30
		PN25	555	490	16	M30	33	450	38	42	38
		PN40	580	510	16	M33	36	465	46	54	46
400	16"	PN6	540	495	16	M20	22	465	22	28	22
		PN10	565	515	16	M24	26	482	26	32	26
		PN16	580	525	16	M27	30	490	32	38	32
		PN25	620	550	16	M33	36	505	40	46	40
		PN40	660	585	16	M36	39	535	50	60	50
450	18"	PN6	595	550	16	M20	22	518	22	30	24
		PN10	615	565	20	M24	26	530	28	36	28
		PN16	640	585	20	M27	30	545	34	42	36
		PN25	670	600	20	M33	36	555	42	50	44
		PN40	685	610	20	M36	39	555	50	66	54
500	20"	PN6	645	600	20	M20	22	570	24	30	24
		PN10	670	620	20	M24	26	585	28	38	28
		PN16	715	650	20	M30	33	610	34	46	36
		PN25	730	660	20	M33	36	615	44	56	45
		PN40	755	670	20	M39	42	615	52	72	56
600	24"	PN6	755	705	20	M24	26	670	24	32	34
		PN10	780	725	20	M27	30	685	28	42	34
		PN16	840	770	20	M33	36	725	36	52	44
		PN25	845	770	20	M36	39	720	46	68	54
		PN40	890	795	20	M45	48	735	60	84	70

* These Flanges will normally be supplied 12.5 mm thick

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Flanges: ANSI B16.5

Bolt Lengths shown are for studbolts allowing for 2 Washers and 2 Standard Nuts.

Nominal Pipe Size	Flange Rating	Diameter of Flange D	Bolt Circle Diameter A	Number of Bolts	Bolt Size		Ring Size RTJ	Diameter of Holes L	Diameter of Raised Face B	Thickness of Flange T
					RF	RTJ				
1/2"	150LB	3.50	2.38	4	1/2 X 2.25	-	-	0.62	1.38	0.44
	300LB	3.75	2.62	4	1/2 X 2.50	1/2 X 3.00	R11	0.62	1.38	0.56
	600LB	3.75	2.62	4	1/2 X 3.00	1/2 X 3.00	R11	0.62	1.38	0.56
	900LB	4.75	3.25	4	3/4 X 4.25	3/4 X 4.25	R12	0.88	1.38	0.88
	1500LB	4.75	3.25	4	3/4 X 4.25	3/4 X 4.25	R12	0.88	1.38	0.88
	2500LB	5.25	3.50	4	3/4 X 4.75	3/4 X 4.75	R13	0.88	1.38	1.19
3/4"	150LB	3.88	2.75	4	1/2 X 2.50	-	-	0.62	1.69	0.50
	300LB	4.62	3.25	4	5/8 X 3.00	5/8 X 3.50	R13	0.75	1.69	0.62
	600LB	4.62	3.25	4	5/8 X 3.50	5/8 X 3.50	R13	0.75	1.69	0.62
	900LB	5.12	3.50	4	3/4 X 4.50	3/4 X 4.50	R14	0.88	1.69	1.00
	1500LB	5.12	3.50	4	3/4 X 4.50	3/4 X 4.50	R14	0.88	1.69	1.00
	2500LB	5.50	3.75	4	3/4 X 5.00	3/4 X 5.00	R16	0.88	1.69	1.25
1"	150LB	4.25	3.12	4	1/2 X 2.50	1/2 X 3.00	R15	0.62	2.00	0.56
	300LB	4.88	3.50	4	5/8 X 3.00	5/8 X 3.50	R16	0.75	2.00	0.69
	600LB	4.88	3.50	4	5/8 X 3.50	5/8 X 3.50	R16	0.75	2.00	0.69
	900LB	5.88	4.00	4	7/8 X 5.00	7/8 X 5.00	R16	1.00	2.00	1.12
	1500LB	5.88	4.00	4	7/8 X 5.00	7/8 X 5.00	R16	1.00	2.00	1.12
	2500LB	6.25	4.25	4	7/8 X 5.50	7/8 X 5.50	R18	1.00	2.00	1.38
1 1/4"	150LB	4.62	3.50	4	1/2 X 2.75	1/2 X 3.25	R17	0.62	2.50	0.62
	300LB	5.25	3.88	4	5/8 X 3.25	5/8 X 3.75	R18	0.75	2.50	0.75
	600LB	5.25	3.88	4	5/8 X 3.75	5/8 X 3.75	R18	0.75	2.50	0.81
	900LB	6.25	4.38	4	7/8 X 5.00	7/8 X 5.00	R18	1.00	2.50	1.12
	1500LB	6.25	4.38	4	7/8 X 5.00	7/8 X 5.00	R18	1.00	2.50	1.12
	2500LB	7.25	5.12	4	1 1/8 X 6.00	1 1/8 X 6.00	R21	1.12	2.50	1.50
1 1/2"	150LB	5.00	3.88	4	1/2 X 2.75	1/2 X 3.25	R19	0.62	2.88	0.69
	300LB	6.12	4.50	4	3/4 X 3.50	3/4 X 4.00	R20	0.88	2.88	0.81
	600LB	6.12	4.50	4	3/4 X 4.25	3/4 X 4.25	R20	0.88	2.88	0.88
	900LB	7.00	4.88	4	1 1/8 X 5.50	1 1/8 X 5.50	R20	1.12	2.88	1.25
	1500LB	7.00	4.88	4	1 1/8 X 5.50	1 1/8 X 5.50	R20	1.12	2.88	1.25
	2500LB	8.00	5.75	4	1 1/8 X 6.75	1 1/8 X 6.75	R23	1.25	2.88	1.75
2"	150LB	6.00	4.75	4	5/8 X 3.25	5/8 X 3.75	R22	0.75	3.62	0.75
	300LB	6.50	5.00	8	5/8 X 3.50	5/8 X 4.00	R23	0.75	3.62	0.88
	600LB	6.50	5.00	8	5/8 X 4.25	5/8 X 4.25	R23	0.75	3.62	1.00
	900LB	8.50	6.50	8	7/8 X 5.75	7/8 X 5.75	R24	1.00	3.62	1.50
	1500LB	8.50	6.50	8	7/8 X 5.75	7/8 X 5.75	R24	1.00	3.62	1.50
	2500LB	9.25	6.75	8	1 1/8 X 7.00	1 1/8 X 7.00	R26	1.12	3.62	2.00
2 1/2"	150LB	7.00	5.50	4	5/8 X 3.50	5/8 X 4.00	R25	0.75	4.12	0.88
	300LB	7.50	5.88	8	3/4 X 4.00	3/4 X 4.50	R26	0.88	4.12	1.00
	600LB	7.50	5.88	8	3/4 X 4.75	3/4 X 4.75	R26	0.88	4.12	1.12
	900LB	9.62	7.50	8	1 1/8 X 6.25	1 1/8 X 6.25	R27	1.12	4.12	1.62
	1500LB	9.62	7.50	8	1 1/8 X 6.25	1 1/8 X 6.25	R27	1.12	4.12	1.62
	2500LB	10.50	7.75	8	1 1/8 X 7.75	1 1/8 X 8.00	R28	1.25	4.12	2.25
3"	150LB	7.50	6.00	4	5/8 X 3.50	5/8 X 4.00	R29	0.75	5.00	0.94
	300LB	8.25	6.62	8	3/4 X 4.25	3/4 X 4.75	R31	0.88	5.00	1.12
	600LB	8.25	6.62	8	3/4 X 5.00	3/4 X 5.00	R31	0.88	5.00	1.25
	900LB	9.50	7.50	8	7/8 X 5.75	7/8 X 5.75	R31	1.00	5.00	1.50
	1500LB	10.50	8.00	8	1 1/8 X 7.00	1 1/8 X 7.00	R35	1.25	5.00	1.88
	2500LB	12.00	9.00	8	1 1/4 X 8.75	1 1/4 X 9.00	R32	1.38	5.00	2.62
4"	150LB	9.00	7.50	8	5/8 X 3.50	5/8 X 4.00	R36	0.75	6.19	0.94
	300LB	10.00	7.88	8	3/4 X 4.50	3/4 X 5.00	R37	0.88	6.19	1.25
	600LB	10.75	8.50	8	7/8 X 5.75	7/8 X 5.75	R37	1.00	6.19	1.50
	900LB	11.50	9.25	8	1 1/8 X 6.75	1 1/8 X 6.75	R37	1.25	6.19	1.75
	1500LB	12.25	9.50	8	1 1/4 X 7.75	1 1/4 X 7.75	R39	1.38	6.19	2.12
	2500LB	14.00	10.75	8	1 1/2 X 10.00	1 1/2 X 10.25	R38	1.62	6.19	3.00

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Flanges: ANSI B16.5

Bolt Lengths shown are for studbolts allowing for 2 Washers and 2 Standard Nuts.

Nominal Pipe Size	Flange Rating	Diameter of Flange D	Bolt Circle Diameter A	Number of Bolts	Bolt Size		Rising Stem RTJ	Diameter of Holes L	Diameter of Raised Face B	Thickness of Flange T
					RF	RTJ				
5"	150LB	10.00	8.50	8	3/4 X 3.75	3/4 X 4.25	R40	0.88	7.31	0.94
	300LB	11.00	9.25	8	3/4 X 4.75	3/4 X 5.25	R41	0.88	7.31	1.38
	600LB	13.00	10.50	8	1.00 X 6.50	1.00 X 6.50	R41	1.12	7.31	1.75
	900LB	13.75	11.00	8	1 1/4 X 7.50	1 1/4 X 7.50	R41	1.38	7.31	2.00
	1500LB	14.75	11.50	8	1 1/2 X 9.75	1 1/2 X 9.75	R44	1.62	7.31	2.88
	2500LB	16.50	12.75	8	1 3/4 X 11.75	1 3/4 X 12.25	R42	1.88	7.31	3.62
6"	150LB	11.00	9.50	8	3/4 X 4.00	3/4 X 4.50	R43	0.88	8.50	1.00
	300LB	12.50	10.62	12	3/4 X 4.75	3/4 X 5.50	R45	0.88	8.50	1.44
	600LB	14.00	11.50	12	1.00 X 6.75	1.00 X 6.75	R45	1.12	8.50	1.88
	900LB	15.00	12.50	12	1 1/8 X 7.50	1 1/8 X 7.75	R45	1.25	8.50	2.19
	1500LB	15.50	12.50	12	1 3/8 X 10.25	1 3/8 X 10.50	R46	1.50	8.50	3.25
	2500LB	19.00	14.50	8	2.00 X 13.50	2.00 X 14.00	R47	2.12	8.50	4.25
8"	150LB	13.50	11.75	8	3/4 X 4.25	3/4 X 4.75	R48	0.88	10.62	1.12
	300LB	15.00	13.00	12	7/8 X 5.00	7/8 X 6.00	R49	1.00	10.62	1.62
	600LB	16.50	13.75	12	1 1/8 X 7.50	1 1/8 X 7.75	R49	1.25	10.62	2.19
	900LB	18.50	15.50	12	1 3/8 X 8.75	1 3/8 X 8.75	R49	1.50	10.62	2.50
	1500LB	19.00	15.50	12	1 5/8 X 11.50	1 5/8 X 12.75	R50	1.75	10.62	3.62
	2500LB	21.75	17.25	12	2.00 X 15.00	2.00 X 15.50	R51	2.12	10.62	5.00
10"	150LB	16.00	14.25	12	7/8 X 4 1/2	7/8 X 5.00	R52	1.00	12.75	1.19
	300LB	17.50	15.25	16	1.00 X 6.25	1.00 X 6.75	R53	1.12	12.75	1.88
	600LB	20.00	17.00	16	1 1/4 X 8.50	1 1/4 X 8.50	R53	1.38	12.75	2.50
	900LB	21.50	18.50	16	1 3/8 X 9.25	1 3/8 X 9.25	R53	1.50	12.75	2.75
	1500LB	23.00	19.00	12	1 7/8 X 13.25	1 7/8 X 13.50	R54	2.00	12.75	4.25
	2500LB	26.50	21.25	12	2 1/2 X 19.25	2 1/2 X 20.00	R55	2.62	12.75	6.50
12"	150LB	19.00	17.00	12	7/8 X 4.75	7/8 X 5.25	R56	1.00	15.00	1.25
	300LB	20.50	17.75	16	1 1/8 X 6.75	1 1/8 X 7.25	R57	1.25	15.00	2.00
	600LB	22.00	19.25	20	1 1/4 X 8.75	1 1/4 X 8.75	R57	1.38	15.00	2.62
	900LB	24.00	21.00	20	1 3/8 X 10.00	1 3/8 X 10.00	R57	1.50	15.00	3.12
	1500LB	26.50	22.50	16	2.00 X 14.75	2.00 X 15.25	R58	2.12	15.00	4.88
	2500LB	30.00	24.38	12	2 3/4 X 21.25	2 3/4 X 22.00	R60	2.88	15.00	7.25
14"	150LB	21.00	18.75	12	1.00 X 5.25	1.00 X 5.75	R59	1.12	16.25	1.38
	300LB	23.00	20.25	20	1 1/8 X 7.00	1 1/8 X 7.50	R61	1.25	16.25	2.12
	600LB	23.75	20.75	20	1 3/8 X 9.25	1 3/8 X 9.25	R61	1.50	16.25	2.75
	900LB	25.25	22.00	20	1 1/2 X 10.75	1 1/2 X 11.00	R62	1.62	16.25	3.38
	1500LB	29.50	25.00	16	2 1/4 X 16.00	2 1/4 X 16.75	R63	2.38	16.25	5.25
	2500LB	33.50	27.50	12	3.00 X 22.50	3.00 X 23.25	R64	3.12	16.25	8.00
16"	150LB	23.50	21.25	16	1.00 X 5.25	1.00 X 5.75	R64	1.12	18.50	1.44
	300LB	25.50	22.50	20	1 1/4 X 7.50	1 1/4 X 8.00	R65	1.38	18.50	2.25
	600LB	27.00	23.75	20	1 1/2 X 10.00	1 1/2 X 10.00	R65	1.62	18.50	3.00
	900LB	27.75	24.25	20	1 5/8 X 11.25	1 5/8 X 11.50	R66	1.75	18.50	3.50
	1500LB	32.50	27.75	16	2 1/2 X 17.50	2 1/2 X 18.50	R67	2.62	18.50	5.75
	2500LB	36.50	30.50	12	3.00 X 22.50	3.00 X 23.25	R68	3.12	18.50	8.00
18"	150LB	25.00	22.75	16	1 1/8 X 5.75	1 1/8 X 6.25	R68	1.25	21.00	1.56
	300LB	28.00	24.75	24	1 1/4 X 7.75	1 1/4 X 8.25	R69	1.38	21.00	2.38
	600LB	29.25	25.75	20	1 5/8 X 10.75	1 5/8 X 10.75	R69	1.75	21.00	3.25
	900LB	31.00	27.00	20	1 7/8 X 12.75	1 7/8 X 13.25	R70	2.00	21.00	4.00
	1500LB	36.00	30.50	16	2 3/4 X 19.50	2 3/4 X 20.75	R71	2.88	21.00	6.38
	2500LB	40.00	33.50	12	3.00 X 22.50	3.00 X 23.25	R72	3.12	21.00	8.00
20"	150LB	27.50	25.00	20	1 1/8 X 6.25	1 1/8 X 6.75	R72	1.25	23.00	1.69
	300LB	30.50	27.00	24	1 1/4 X 8.00	1 1/4 X 8.75	R73	1.38	23.00	2.50
	600LB	32.00	28.50	24	1 5/8 X 11.25	1 5/8 X 11.50	R73	1.75	23.00	3.50
	900LB	33.75	29.50	20	2.00 X 13.75	2.00 X 14.25	R74	2.12	23.00	4.25
	1500LB	38.75	32.75	16	3.00 X 21.25	3.00 X 22.25	R75	3.12	23.00	7.00
	2500LB	42.00	35.00	12	3.00 X 22.50	3.00 X 23.25	R76	3.12	23.00	8.00
24"	150LB	32.00	29.50	20	1 1/4 X 6.75	1 1/4 X 7.25	R76	1.38	27.25	1.88
	300LB	36.00	32.00	24	1 1/2 X 9.00	1 1/2 X 10.00	R77	1.62	27.25	2.75
	600LB	37.00	33.00	24	1 7/8 X 13.00	1 7/8 X 13.25	R77	2.00	27.25	4.00
	900LB	41.00	35.50	20	2 1/2 X 17.25	2 1/2 X 18.00	R78	2.62	27.25	5.50
	1500LB	46.00	39.00	16	3 1/2 X 24.25	3 1/2 X 25.50	R79	3.62	27.25	8.00
	2500LB	50.00	42.00	12	3.00 X 22.50	3.00 X 23.25	R80	3.12	27.25	8.00

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Flanges: Approximate Weights (kgs)

Nominal Pipe Size		150lb			300lb			600lb		
		Weld Neck	Slip on Screwed Socket Weld	Blind	Weld Neck	Slip on Screwed Socket Weld	Blind	Weld Neck	Slip on Screwed Socket Weld	Blind
mm	in									
15	1/2"	0.48	0.39	0.42	0.75	0.64	0.64	0.87	0.74	0.76
20	3/4"	0.71	0.56	0.61	1.26	1.12	1.11	1.45	1.27	1.28
25	1"	1.01	0.78	0.86	1.52	1.36	1.39	1.76	1.52	1.6
32	1 1/4"	1.33	1.03	1.17	2.03	1.68	1.79	2.49	2.03	2.23
40	1 1/2"	1.72	1.32	1.53	2.89	2.49	2.66	3.49	2.96	3.25
50	2"	2.58	2.06	2.42	3.4	2.87	3.18	4.36	3.62	4.15
65	2 1/2"	4.11	3.28	3.94	5.17	4.32	4.85	6.43	5.28	6.13
80	3"	4.92	3.85	4.93	6.93	5.85	6.81	8.53	7.0	8.44
100	4"	6.84	5.3	7.0	11.2	9.61	11.5	17.4	14.5	17.3
125	5"	8.56	6.07	8.63	15.1	12.3	15.6	29.2	24.4	29.4
150	6"	10.6	7.45	11.3	19.1	15.6	20.9	34.9	28.7	36.1
200	8"	17.6	12.1	19.6	29.9	24.2	34.3	53.9	43.4	58.9
250	10"	24	16.5	28.8	42.7	34.1	53.3	86.5	70.3	97.5
300	12"	36.5	26.2	43.2	61.8	49.8	78.8	103	84.2	124
350	14"	48.4	34.6	58.1	85.8	69.9	105	122	98.7	151
400	16"	60.6	44.8	76	106	88.1	137	170	142	214
450	18"	68.3	48.9	93.7	131	109	175	204	173	272
500	20"	84.5	61.9	122	158	134	221	254	220	349
600	24"	115	86.9	185	230	201	339	358	312	533

Nominal Pipe Size		Table D		Table E		Table F	
		Bossed Slip On	Blind	Bossed Slip On	Blind	Bossed Slip On	Blind
mm	in						
15	1/2"	0.23	0.23	0.34	0.23	0.57	0.91
20	3/4"	0.34	0.34	0.45	0.34	0.68	0.91
25	1"	0.45	0.57	0.57	0.57	0.91	1.36
32	1 1/4"	0.68	0.79	0.79	0.91	1.36	1.59
40	1 1/2"	0.79	0.91	1.02	1.13	1.59	1.81
50	2"	1.13	1.13	1.36	1.36	2.61	2.04
65	2 1/2"	1.36	1.36	1.7	1.59	3.18	3.18
80	3"	1.81	2.27	2.27	2.72	3.97	4.54
100	4"	2.61	3.18	3.18	3.63	5.44	7.26
125	5"	4.42	5.1	4.76	5.9	9.07	10.89
150	6"	5.33	6.8	7.48	8.62	10.89	12.25
200	8"	7.48	9.98	9.98	11.79	15.88	19.96
250	10"	11.57	19.5	15.42	22.23	21.77	30.84
300	12"	15.42	28.58	20.41	33.11	34.47	48.99



Flanges: Approximate Weights (kgs)

Nominal Pipe Size		PN6			PN10			PN16		
mm	in	Bossed Slip On and Weld Neck	Plate Slip On	Blind	Bossed Slip On and Weld Neck	Plate Slip On	Blind	Bossed Slip On and Weld Neck	Plate Slip On	Blind
15	1/2"	0.39	0.36	0.45	For sizes 15mm to 150mm use PN16			0.65	0.61	0.74
20	3/4"	0.59	0.54	0.70				0.95	0.87	1.04
25	1"	0.75	0.71	0.87				1.14	1.05	1.29
32	1 1/4"	1.05	1.10	1.20				1.69	1.68	1.80
40	1 1/2"	1.18	1.16	1.46				1.86	1.84	2.17
50	2"	1.34	1.33	1.68				2.53	2.49	2.93
65	2 1/2"	1.67	1.70	2.25				3.06	3.14	3.68
80	3"	2.71	2.70	3.50				3.70	3.35	4.71
100	4"	3.24	2.99	5.00				4.62	4.01	6.00
125	5"	4.49	4.00	7.10				6.30	5.10	8.60
150	6"	5.15	4.56	8.85				7.75	6.90	11.10
200	8"	7.78	6.30	12.05	11.30	9.00	16.45	11.30	9.00	16.45
250	10"	10.80	8.70	20.25	14.70	11.30	25.65	15.60	13.75	25.65
300	12"	14.00	11.00	29.35	17.40	12.95	35.35	22.00	17.80	35.35
350	14"	-	15.15	45.00	-	19.55	50.00	-	27.40	50.00
400	16"	-	-	-	-	26.95	64.40	-	35.10	64.40
450	18"	-	-	-	-	33.25	90.00	-	45.30	90.00
500	20"	-	-	-	-	40.35	111.00	-	64.50	111.00
600	24"	-	-	-	-	53.50	189.00	-	94.00	189.00

Nominal Pipe Size		PN25			PN40		
mm	in	Bossed Slip On and Weld Neck	Plate Slip On	Blind	Bossed Slip On and Weld Neck	Plate Slip On	Blind
15	1/2"	For sizes 15mm to 150mm use PN40			0.87	0.74	0.76
20	3/4"				1.06	0.87	1.10
25	1"				1.29	1.08	1.35
32	1 1/4"				1.88	1.73	2.00
40	1 1/2"				2.33	1.94	2.33
50	2"				2.82	2.57	3.30
65	2 1/2"				3.74	3.11	4.35
80	3"				4.75	4.20	5.60
100	4"				6.52	6.00	7.60
125	5"				9.07	8.00	10.00
150	6"				11.80	10.00	14.00
200	8"	17.00	13.80	22.00	21.50	16.70	28.00
250	10"	24.40	19.30	32.00	34.90	28.00	44.00
300	12"	31.20	26.05	46.00	49.70	39.60	65.00
350	14"	-	40.50	-	-	63.00	-
400	16"	-	54.00	-	-	94.00	-
450	18"	-	-	-	-	-	-
500	20"	-	-	-	-	-	-
600	24"	-	-	-	-	-	-

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Forged Fittings

Dimensions

BS3799

ANSI B16.11

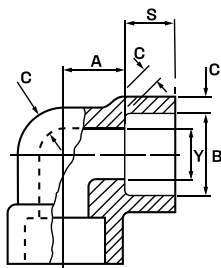
The values and dimensions quoted on the following pages are for guidance only. For actual dimensions, tolerances and performance limitations reference should be made to relevant current standards or technical data.

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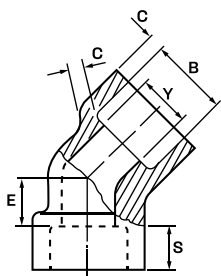


3000 Socket Weld Pipe Fittings (Elbows, Tees & Crosses)



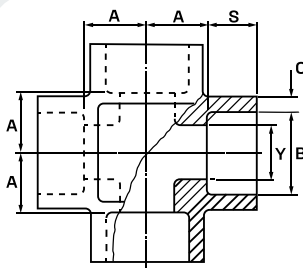
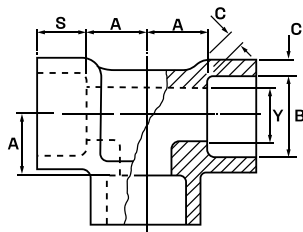
Pressure Class 3000

NB	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Dim. Y (mm)	Dim. E (mm)	Dim. S (mm)
6	11	10.7	3.2	6.8	8	10
8	11	14.1	3.3	9.2	8	10
10	14	17.6	3.5	12.5	8	10
15	16	21.8	4.1	15.5	11	10
20	19	27.4	4.3	21.0	13	13
25	22	34.1	5.0	26.5	15	13
32	27	42.9	5.3	35.0	18	13
40	32	49.0	5.6	40.5	21	13
50	38	61.0	6.1	52.0	26	16
65	41	73.8	7.7	62.0	29	16
80	57	89.7	8.3	78.0	32	16
100	67	115.5	9.4	100.7	48	19



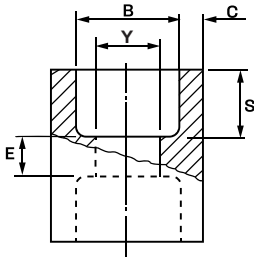
Pressure Class 6000

NB	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Dim. Y (mm)	Dim. E (mm)	Dim. S (mm)
6	11	10.7	3.45	3.2	7	10
8	15	14.1	4.00	5.6	7	10
10	15	17.6	4.35	8.4	10	10
15	19	21.8	5.2	11.0	13	10
20	22	27.4	6.1	14.8	14	13
25	27	34.1	7.0	19.9	18	13
32	32	42.9	7.0	26.7	21	13
40	38	49.0	7.8	33.2	26	13
50	41	61.0	9.5	42.1	29	16
65	57	73.8	10.4	54.0	32	16
80	64	89.7	12.2	67.0	41	16



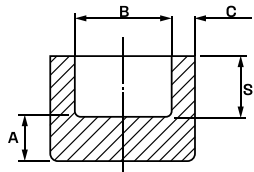


3000 Socket Weld Pipe Fittings (Couplings, Caps & Half Couplings)



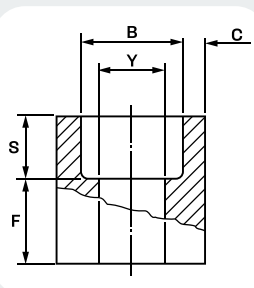
Pressure Class 3000

NB	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Dim. Y (mm)	Dim. E (mm)	Dim. F (mm)	Dim. S (mm)
6	4	10.7	3.2	6.8	6	16	10
8	7	14.1	3.3	9.2	6	16	10
10	7	17.6	3.5	12.5	6	17	10
15	7	21.8	4.1	15.5	10	22	10
20	10	27.4	4.3	21.0	10	24	13
25	11	34.1	5.0	26.5	13	29	13
32	13	42.9	5.3	35.0	13	30	13
40	14	49.0	5.6	40.5	13	32	13
50	18	61.0	6.1	52.0	19	41	16
65	21	73.8	7.7	62.0	19	43	16
80	24	89.7	8.3	78.0	19	44	16
100	-	115.5	9.4	101.0	19	47	19



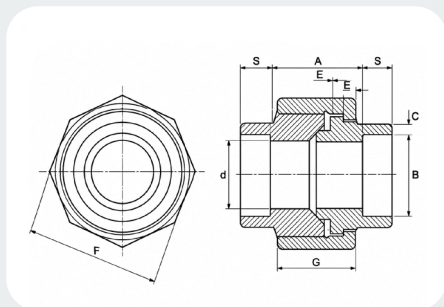
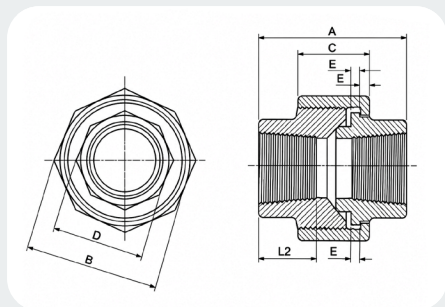
Pressure Class 6000

NB	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Dim. Y (mm)	Dim. E (mm)	Dim. F (mm)	Dim. S (mm)
6	-	10.7	3.5	4.0	6	16	10
8	-	14.1	4.0	6.4	6	16	10
10	-	17.6	4.4	9.2	6	17	10
15	11	21.8	5.2	11.8	10	22	10
20	13	27.4	6.1	15.5	10	24	13
25	14	34.1	7.0	20.5	13	29	13
32	18	42.9	7.0	29.5	13	30	13
40	19	49.0	7.8	34.0	13	32	13
50	24	61.0	9.5	43.0	19	41	16
65	29	73.8	10.4	54.0	19	43	16
80	34	89.7	12.2	67.0	19	44	16





3000 Screwed / Socket Weld Pipe Fittings (Unions)



Screwed

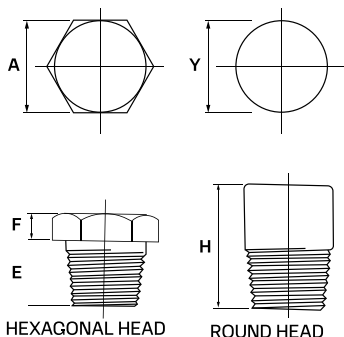
NB	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Dim. Y (mm)	Dim. E (mm)
6	40	32	16	17	3.2
8	43	32	18	19	3.2
10	48	36	19	22	3.2
15	51	43	21	30	4.0
20	57	50	24	36	4.8
25	64	60	25	41	4.8
32	70	70	29	50	5.6
40	79	78	30	60	5.6
50	89	95	37	70	6.4
65	118	125	48	85	9.6
80	121	140	51	100	12.7

Socket Weld

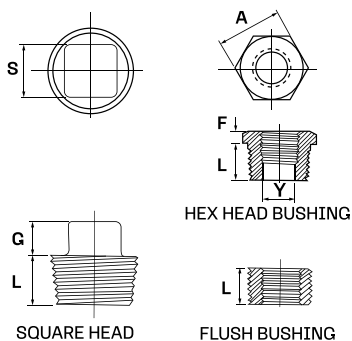
NB	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Dim. Y (mm)	Dim. E (mm)	Dim. F (mm)	Dim. G (mm)	Dim. S (mm)
6	17	10.7	3.2	6.8	3.2	32	16	10
8	17	14.1	3.3	9.2	3.2	32	18	10
10	17	17.6	3.5	12.5	3.2	36	19	10
15	18	21.8	4.1	15.5	4.0	41	21	10
20	20	27.4	4.3	21.0	4.8	50	24	13
25	26	34.1	5.0	26.5	4.8	60	25	13
32	28	42.9	5.3	35.0	5.6	70	29	13
40	30	49.0	5.6	40.5	5.6	78	30	13
50	36	61.0	6.1	52.0	6.4	95	37	16
65	57	73.8	7.7	62.0	9.6	125	48	16
80	70	89.7	8.3	78.0	12.7	140	51	16



3000 Screwed Pipe Fittings (Plugs & Bushings)



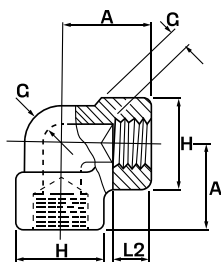
NB	Dim. A (mm)	Dim. Y (mm)	Dim. E (mm)	Dim. F (mm)	Dim. H (mm)
6	11	10	10	6	35
8	16	14	15	6	41
10	18	18	16	8	41
15	22	21	20	8	45
20	27	27	21	10	45
25	36	33	25	10	51
32	46	43	26	14	51
40	50	48	26	16	51
50	65	60	27	18	64
65	75	73	41	19	70
80	90	90	42	21	70
100	115	114	45	32	76



NB	Dim. L (mm)	Dim. C (mm)	Dim. S (mm)	Dim. F (mm)	Dim. A (mm)
6	10	6	7	-	11
8	11	6	10	3	16
10	13	8	11	4	18
15	14	10	14	5	22
20	18	11	16	6	27
25	19	13	21	6	36
32	21	14	24	7	46
40	21	16	29	8	50
50	22	18	33	9	65
65	27	19	38	10	75
80	29	21	43	10	90
100	32	32	64	13	115

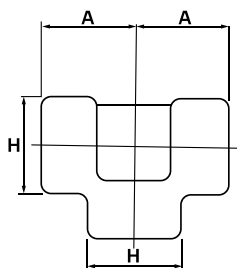
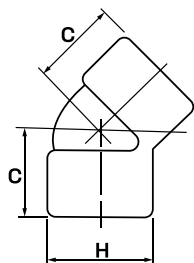


3000 Screwed Pipe Fittings (Elbows, Tees & Crosses)



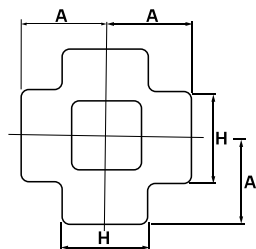
Pressure Class 3000

NB	Dim. A (mm)	Dim. C (mm)	Dim. H (mm)	Dim. G (mm)
6	21	17	22	3.2
8	25	19	25	3.3
10	29	22	33	3.5
15	33	25	38	4.1
20	38	29	46	4.5
25	44	33	56	5.0
32	51	35	62	5.3
40	60	43	75	5.5
50	64	45	84	6.0
65	83	52	102	7.6
80	95	64	121	8.3
100	114	79	152	9.3



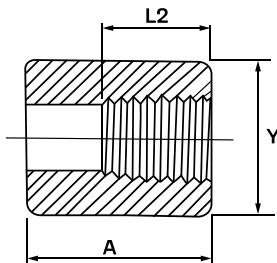
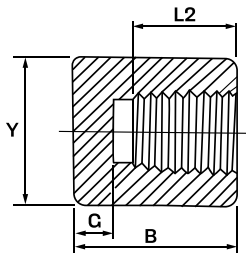
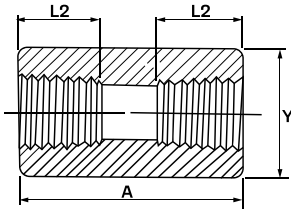
Pressure Class 6000

NB	Dim. A (mm)	Dim. C (mm)	Dim. H (mm)	Dim. G (mm)
6	25	19	25	6.4
8	28	22	33	6.6
10	33	25	38	7.0
15	38	29	46	8.2
20	44	33	56	8.5
25	51	35	62	9.9
32	60	43	75	10.6
40	64	44	84	11.1
50	83	52	102	12.0
65	95	64	121	15.3
80	106	79	146	16.6
100	114	79	152	18.7





3000 Screwed Pipe Fittings (Couplings, Caps & Half Couplings)



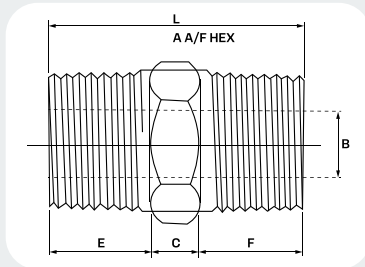
NB	Dim. A (mm)	Dim. B (mm)	Dim. Y (mm)	Dim. C (mm)
6	32	19	16	5
8	35	25	19	5
10	38	25	22	5
15	48	32	29	6
20	51	37	35	6
25	60	41	45	10
32	67	45	57	10
40	79	45	64	11
50	86	48	76	13
65	92	60	92	16
80	108	65	108	19
100	121	68	140	22

L2 Refer to Page 44 for thread form.

NB	Dim. A (mm)	Dim. B (mm)	Dim. Y (mm)	Dim. C (mm)
6	32	-	22	-
8	35	27	25	6
10	38	27	32	6
15	48	33	38	8
20	51	38	45	8
25	60	43	57	11
32	67	46	64	11
40	79	48	76	13
50	86	51	92	16
65	92	64	108	19
80	108	68	127	22.4
100	121	75	159	28.4

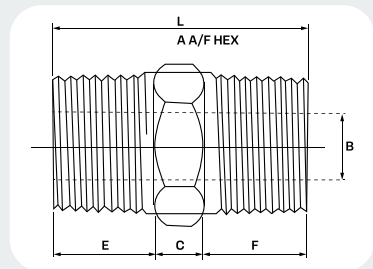


3000 Screwed Pipe Fittings (Straight & Red Hexagon Nipples)



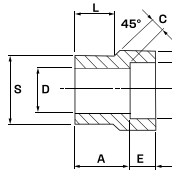
NB	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Dim. E (mm)	Dim. F (mm)	Dim. L (mm)
6	11	5	6	10	-	26
8	15	8	6	15	-	36
8 x 6	15	5	6	15	10	31
10	18	11	8	16	-	40
10 x 8	18	8	8	16	15	39
15	22	14	8	20	-	48
15 x 10	22	11	8	20	16	44
15 x 8	22	8	8	20	15	43
20	27	19	10	21	-	52
20 x 15	27	14	9	21	20	50
20 x 10	27	11	9	21	16	46
25	35	24	10	25	-	60
25 x 20	35	19	10	25	21	56
25 x 15	35	14	10	25	20	55
40	50	38	16	26	-	68
40 x 25	50	24	16	26	25	67
40 x 20	50	19	16	26	21	63
40 x 15	50	14	16	26	20	62
50	62	49	17	27	-	71
50 x 40	62	38	17	27	26	70
50 x 25	62	24	18	27	25	70
50 x 20	62	19	17	27	21	65
50 x 15	62	14	18	27	20	65

NB	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Dim. E (mm)	Dim. F (mm)	Dim. L (mm)
6	11	2	6	10	-	26
8	15	6	6	15	-	36
8 x 6	15	2	6	15	10	31
10	18	8	8	16	-	40
10 x 8	13	6	8	16	15	39
15	22	11	8	20	-	48
15 x 10	22	8	8	20	16	44
15 x 8	22	6	8	20	15	43
20	27	13	10	21	-	52
20 x 15	27	11	9	21	20	50
20 x 10	27	8	9	21	16	46
25	35	17	10	25	-	60
25 x 20	35	13	10	25	21	56
25 x 15	35	11	10	25	20	55
40	50	30	16	26	-	68
40 x 25	50	17	16	26	25	67
40 x 20	50	13	16	26	21	63
40 x 15	50	11	16	26	20	62
50	62	39	17	27	-	71
50 x 40	62	30	17	27	26	70
50 x 25	62	17	18	27	25	70
50 x 20	62	13	17	27	21	65
50 x 15	62	11	18	27	20	65

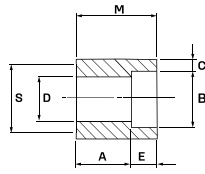




3000 Welding Inserts



TYPE 1*



TYPE 2*

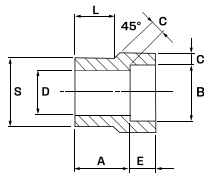
*At the option of the manufacturer Type 2 Reducers may be furnished in Type 1 configuration.

N.B (mm)	Dim. A (mm)	Dim. E (mm)	Dim. M (mm)	Dim. L (mm)	Dim. B (mm)	Dim. D (mm)	Dim. S (mm)	Dim. C (mm)	Type *
10 x 8	19.05	9.65	-	14.22	14.35	9.24	17.14	3.78	1
15 x 8	20.57	9.65	-	15.74	14.35	9.24	21.33	3.78	1
15 x 10	20.57	9.65	-	15.74	17.78	12.52	21.33	4.01	1
20 x 8	17.52	9.65	26.92	-	14.35	9.24	26.67	3.78	2
20 x 10	15.74	9.65	26.92	-	17.78	12.52	26.67	4.01	2
20 x 15	22.35	9.65	-	17.52	21.97	15.79	26.67	4.67	1
25 x 8	19.05	9.65	28.44	-	14.35	9.24	33.40	3.78	2
25 x 10	17.52	9.65	28.44	-	17.78	12.52	33.40	4.01	2
25 x 15	15.74	9.65	28.44	-	21.97	15.79	33.40	4.67	2
25 x 20	23.87	12.70	-	19.05	27.30	20.92	33.40	4.90	1
32 x 8	22.35	9.65	31.75	-	14.35	9.24	42.16	3.78	2
32 x 10	20.57	9.65	31.75	-	17.78	12.52	42.16	4.01	2
32 x 15	19.05	9.65	31.75	-	21.97	15.79	42.16	4.67	2
32 x 20	17.52	12.70	31.75	-	27.30	20.92	42.16	4.90	2
32 x 25	25.40	12.70	-	20.57	34.03	26.64	42.16	5.68	1
40 x 10	22.35	9.65	33.27	-	17.78	12.52	48.26	4.01	2
40 x 15	20.57	9.65	33.27	-	21.97	15.79	48.26	4.67	2
40 x 20	19.05	12.70	33.27	-	27.30	20.92	48.26	4.90	2
40 x 25	17.52	12.70	33.27	-	34.03	26.64	48.26	5.69	2
40 x 32	28.44	12.70	-	22.35	42.79	35.05	48.26	6.07	1
50 x 15	25.40	9.65	38.10	-	21.97	15.79	60.32	4.67	2
50 x 20	23.87	12.70	38.10	-	27.30	20.92	60.32	4.90	2
50 x 25	22.35	12.70	38.10	-	34.03	26.64	60.32	5.69	2
50 x 32	20.57	12.70	38.10	-	42.79	35.05	60.32	6.07	2
50 x 40	31.75	12.70	-	25.40	48.89	40.89	60.32	6.35	1
65 x 20	39.62	12.70	53.84	-	27.30	20.92	73.02	4.90	2
65 x 25	38.10	12.70	53.84	-	34.03	26.64	73.02	5.69	2
65 x 32	36.57	12.70	53.84	-	42.79	35.05	73.02	6.07	2
65 x 40	35.05	12.70	53.84	-	48.89	40.89	73.02	6.35	2
65 x 50	45.97	15.74	-	38.10	61.36	52.50	73.02	6.93	1
80 x 25	31.75	12.70	47.49	-	34.03	26.64	88.90	5.69	2
80 x 32	30.22	12.70	47.49	-	42.79	35.05	88.90	6.07	2
80 x 40	28.44	12.70	47.49	-	48.89	40.89	88.90	6.35	2
80 x 50	25.40	15.74	47.49	-	61.36	52.50	88.90	6.93	2
80 x 65	38.10	15.74	-	31.75	74.06	62.71	88.90	8.76	1
100 x 32	33.27	12.70	60.04	-	42.79	35.05	114.30	6.07	2
100 x 40	38.10	12.70	60.04	-	48.89	40.89	114.30	6.35	2
100 x 50	38.10	15.74	60.04	-	61.36	52.50	114.30	6.93	2
100 x 65	41.14	15.74	60.04	-	74.06	62.71	114.30	8.76	2
100 x 80	42.92	15.74	60.04	-	90.04	77.92	114.30	9.30	2

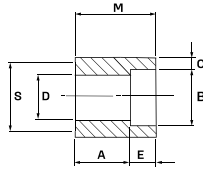
Tel: 01472 898560

Email: sales@pipeworksupplieslimited.com

6000 Welding Inserts



TYPE 1*



TYPE 2*

*At the option of the manufacturer Type 2 Reducers may be furnished in Type 1 configuration.

N.B (mm)	Dim. A (mm)	Dim. E (mm)	Dim. M (mm)	Dim. L (mm)	Dim. B (mm)	Dim. D (mm)	Dim. S (mm)	Dim. C (mm)	Type *
10 x 8	21.33	9.65	-	15.74	14.35	6.35	17.14	4.59	1
15 x 8	20.57	9.65	-	15.74	14.35	6.35	21.34	4.59	1
15 x 10	23.11	9.65	-	15.74	17.78	9.11	21.34	5.02	1
20 x 8	22.35	9.65	32.00	-	14.35	6.35	26.67	4.59	2
20 x 10	22.35	9.65	-	19.05	17.78	9.11	26.67	5.02	1
20 x 15	25.40	9.65	-	19.05	21.97	11.78	26.67	5.97	1
25 x 8	23.87	9.65	33.27	-	14.35	6.35	33.40	4.60	2
25 x 10	22.35	9.65	33.27	-	17.78	9.11	33.40	5.02	2
25 x 15	28.44	9.65	-	20.57	21.97	11.78	33.40	5.97	1
25 x 20	28.44	12.70	-	20.57	27.30	15.54	33.40	6.96	1
32 x 8	25.40	9.65	34.79	-	14.35	6.35	42.16	4.60	2
32 x 10	23.87	9.65	34.79	-	17.78	9.11	42.16	5.02	2
32 x 15	22.35	9.65	34.79	-	21.97	11.78	42.16	5.97	2
32 x 20	20.57	12.70	34.79	-	27.30	15.54	42.16	6.96	2
32 x 25	30.22	12.70	-	22.35	34.03	20.70	42.16	7.92	1
40 x 10	28.44	9.65	33.27	-	17.78	9.11	48.26	5.02	2
40 x 15	26.92	9.65	33.27	-	21.97	11.78	48.26	5.97	2
40 x 20	25.40	12.70	33.27	-	27.30	15.54	48.26	6.96	2
40 x 25	29.21	12.70	33.27	-	34.03	20.70	48.26	7.92	2
40 x 32	35.05	12.70	-	25.40	42.79	29.46	48.26	7.92	1
50 x 15	28.44	9.65	38.01	-	21.97	11.78	60.32	5.97	2
50 x 20	26.92	12.70	38.01	-	27.30	15.54	60.32	6.96	2
50 x 25	25.40	12.70	38.01	-	34.03	20.70	60.32	7.92	2
50 x 32	23.87	12.70	38.01	-	42.79	29.46	60.32	7.92	2
50 x 40	38.86	12.70	-	28.70	48.89	33.98	60.32	8.91	1
65 x 20	38.10	12.70	-	53.84	27.30	15.54	73.02	6.96	2

Forged Carbon Steel Pipe Fittings

Threading

Threaded fittings are threaded to ANSI / ASME B1.20.1 NPT and BSPT to BS21

Test Certificates

Fittings test certificates to DIN 50049/EN10204 3.1.B are available and are normally supplied with all goods sold. Test certificates include full chemical analysis with Carbon Equivalent.

Marking

Plugs, bushings, hex nipples are marked with the Manufacturers mark, Heat Code and Material identification.

Other Fittings

Are marked with the Manufacturers mark, Heat Code, Material Identification, Schedules(s) or Pressure Rating and Nominal size(s).

Other Products Available

Galvanising to BS729 (Superseded by BS EN ISO 1460) / ASTM A153.



Gasket Dimensional Tables

The values and dimensions quoted on the following pages are for guidance only. For actual dimensions, tolerances and performance limitations reference should be made to relevant current standards or technical data.



Gasket Dimensional Tables

RTJ RING JOINT SIZE CHART

NOMINAL PIPE SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
150 lb	-	-	R15	R17	R19	R22	R25	R29	R33	R36
300 lb – 400 lb – 600 lb	R11	R13	R16	R18	R20	R23	R26	R31	R34	R37
900 lb	-	-	-	-	-	-	-	R31	-	R37
1500 lb	R12	R14	R16	R18	R20	R24	R27	R35	-	R39
2500 lb	R13	R16	R18	R21	R23	R26	R28	R32	-	R38

NOMINAL PIPE SIZE	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
150 lb	R40	R43	R48	R52	R56	R59	R64	R68	R72	R76
300 lb – 400 lb – 600 lb	R41	R44	R49	R53	R57	R61	R65	R69	R73	R77
900 lb	R41	R45	R49	R53	R57	R62	R66	R70	R74	R78
1500 lb	R44	R46	R50	R54	R58	R63	R67	R71	R75	R79
2500 lb	R42	R47	R51	R55	R60	-	-	-	-	-

RTJ RING JOINT MATERIAL GRADE CHART

MATERIAL	UNS NUMBER	BRINELL *	ROCKWELL B †	IDENTIFICATION
Soft Iron		90	56	D
Low Carbon Steel		120	68	S
4 – 6% Chrome 1/2% Moly	K42544	130	72	F5
Type 304 Stainless Steel	S30400	160	83	S304
Type 316 Stainless Steel	S31600	160	83	S316
Type 347 Stainless Steel	S34700	160	83	S347
Type 410 Stainless Steel	S41000	170	86	S410

* Measured with 3000 Kg load except soft iron which is measured with 500 Kg load

† Measured with 100 Kg load and 1/16 inch diameter ball

FLANGE FACINGS

ANSI B16.5 Flange Facing Finish.

The finish of contact faces of pipe flanges and connecting end flanges of fittings shall be judged by visual comparison with Ra standards (see ASME B46.1) and not by instruments having stylus tracers and electronic amplifications. The finishes required are given below. Other finishes may be furnished by agreement between user and manufacturer.

Tongue and Groove and Small Male and Female.

The gasket contact surface shall not exceed 125µ in. roughness.

Ring Joint.

The side wall surface of gasket groove shall not exceed 125µ in. roughness.

Other Flange Facings.

Either a serrated concentric or serrated spiral finish having a resultant surface finish from 125µ in. to 250µ in. average roughness shall be furnished. The cutting tool employed should have an approximate 0.06 in. or larger radius, and there should be from 45 grooves/in. through 55 grooves/in.



Gasket Dimensional Tables

Class 150 & 300 ASME B16.21 – Dimensions for Non Metallic Gaskets

Nominal Bore	Flat Ring and Full Face Gasket		Flat Ring Gasket		Full Face Gasket						Nominal Bore
	Inner Diameter		Outer Diameter		Outer Diameter		Bolt Circle Diameter		Diameter of Holes		Number of Bolt Holes
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	

Class 150 ASME B16.21 – Dimensions for Non Metallic Gaskets

1/2	27/32	21.4	1 7/8	47.6	3 1/2	88.9	2 3/8	60.3	5/8	15.9	4	1/2
3/4	11/16	27.0	2 1/4	57.2	3 3/4	95.3	2 3/4	69.9	5/8	15.9	4	3/4
1	1 5/16	33.3	2 5/8	66.7	4 1/4	108.0	3 1/8	79.4	5/8	15.9	4	1
1 1/4	1 21/32	42.1	3	76.2	4 5/8	117.5	3 1/2	88.9	5/8	15.9	4	1 1/4
1 1/2	1 29/32	48.4	3 3/8	85.7	5	127.0	3 7/8	98.4	5/8	15.9	4	1 1/2
2	2 3/8	60.3	4 1/8	104.8	6	152.4	4 3/4	120.7	3/4	19.1	4	2
2 1/2	2 7/8	73.0	4 7/8	123.8	7	177.8	5 1/2	139.7	3/4	19.1	4	2 1/2
3	3 1/2	88.9	5 3/8	136.5	7 1/2	190.5	6	152.4	3/4	19.1	4	3
3 1/2	4	101.6	6 3/8	161.9	8 1/2	215.9	7	177.8	3/4	19.1	8	3 1/2
4	4 1/2	114.3	6 7/8	174.6	9	228.6	7 1/2	190.5	3/4	19.1	8	4
5	5 9/16	141.3	7 3/4	196.9	10	254.0	8 1/2	215.9	7/8	22.2	8	5
6	6 5/8	168.3	8 3/4	222.3	11	279.4	9 1/2	241.3	7/8	22.2	8	6
8	8 5/8	219.1	11	279.4	13 1/2	342.9	11 3/4	298.5	7/8	22.2	8	8
10	10 3/4	273.1	13 3/8	339.7	16	406.4	14 1/4	362.0	1	25.4	12	10
12	12 3/4	323.9	16 1/8	409.6	19	482.6	17	431.8	1	25.4	12	12
14	14	355.6	17 3/4	450.9	21	533.4	18 3/4	476.3	1 1/8	28.6	12	14
16	16	406.4	20 1/4	514.4	23 1/2	596.9	21 1/4	539.8	1 1/8	28.6	16	16
18	18	457.2	21 5/8	549.3	25	635.0	22 3/4	577.9	1 1/4	31.8	16	18
20	20	508.0	23 7/8	606.4	27 1/2	698.5	25	635.0	1 1/4	31.8	20	20
24	24	609.6	28 1/4	717.6	32	812.8	29 1/2	749.3	1 3/8	34.9	20	24

Class 300 ASME B16.21 – Dimensions for Non Metallic Gaskets

1/2	0.84	21.4	2 1/8	54.0	3 3/4	95.3	2 5/8	66.7	5/8	15.9	4	1/2
3/4	1.06	27.0	2 5/8	66.7	4 5/8	117.5	3 1/4	82.6	3/4	19.1	4	3/4
1	1.31	33.3	2 7/8	73.0	4 7/8	123.8	3 1/2	88.9	3/4	19.1	4	1
1 1/4	1.66	42.1	3 1/4	82.6	5 1/4	133.4	3 7/8	98.4	3/4	19.1	4	1 1/4
1 1/2	1.91	48.4	3 3/4	95.3	6 1/8	155.6	4 1/2	114.3	7/8	22.2	4	1 1/2
2	2.38	60.3	4 3/8	111.1	6 1/2	165.1	5	127.0	3/4	19.1	8	2
2 1/2	2.88	73	5 1/8	130.2	7 1/2	190.5	5 7/8	149.2	7/8	22.2	8	2 1/2
3	3.50	88.9	5 7/8	149.2	8 1/4	209.6	6 5/8	168.3	7/8	22.2	8	3
3 1/2	4.00	101.6	6 1/2	165.1	9	228.6	7 1/4	184.2	7/8	22.2	8	3 1/2
4	4.50	114.3	7 1/8	181.0	10	254.0	7 7/8	200.0	7/8	22.2	8	4
5	5.56	141.3	8 1/2	215.9	11	279.4	9 1/4	235.0	7/8	22.2	8	5
6	6.63	168.3	9 7/8	250.8	12 1/2	317.5	10 5/8	269.9	7/8	22.2	12	6
8	8.63	219.1	12 1/8	308.0	15	381.0	13	330.2	1 1/8	28.6	12	8
10	10.75	273.1	14 1/4	362.0	17 1/2	444.5	15 1/4	387.4	1 1/8	28.6	16	10
12	12.75	323.9	16 5/8	422.3	20 1/2	520.7	17 3/4	450.9	1	25.4	16	12
14	14.00	355.6	19 1/8	485.8	23	584.2	20 1/4	514.4	1 1/4	31.8	20	14
16	16.00	406.4	21 1/4	539.8	25 1/2	647.7	22 1/2	571.5	1 3/8	34.9	20	16
18	18.00	457.2	23 1/2	596.9	28	711.2	24 3/4	628.7	1 3/8	34.9	24	18
20	20.00	508.0	25 3/4	654.1	30 1/2	774.7	27	685.8	1 3/8	34.9	24	20
24	24.00	609.6	30 1/2	774.7	36	914.4	32	812.8	1 5/8	41.3	24	24

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Gasket Dimensional Tables

Class 600 ASME B16.21 – Dimensions for Non Metallic Gaskets

Nominal Bore	Flat Ring and Full Face Gasket		Flat Ring Gasket		Full Face Gasket							Nominal Bore
	Inner Diameter		Outer Diameter		Outer Diameter		Bolt Circle Diameter		Diameter of Holes		Number of Bolt Holes	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm		
1/2	27/32	21.4	2 1/8	54.0	3 3/4	95.3	2 5/8	66.7	5/8	15.9	4	1/2
3/4	11/16	27.0	2 5/8	66.7	4 5/8	117.5	3 1/4	82.6	3/4	19.1	4	3/4
1	1 5/16	33.3	2 7/8	73.0	4 7/8	123.8	3 1/2	88.9	3/4	19.1	4	1
1 1/4	1 21/32	42.1	3 1/4	82.6	5 1/4	133.4	3 7/8	98.4	3/4	19.1	4	1 1/4
1 1/2	1 29/32	48.4	3 3/4	95.3	6 1/8	155.6	4 1/2	114.3	7/8	22.2	4	1 1/2
2	2 3/8	60.3	4 3/8	111.1	6 1/2	165.1	5	127.0	3/4	19.1	8	2
2 1/2	2 7/8	73.0	5 1/8	130.2	7 1/2	190.5	5 7/8	149.2	7/8	22.2	8	2 1/2
3	3 1/2	88.9	5 7/8	149.2	8 1/4	209.6	6 5/8	168.3	7/8	22.2	8	3
3 1/2	4	101.6	6 3/8	161.9	9	228.6	7 1/4	184.2	1	25.4	8	3 1/2
4	4 1/2	114.3	7 5/8	193.7	10 3/4	273.1	8 1/2	215.9	1	25.4	8	4
5	5 9/16	141.3	9 1/2	241.3	13	330.2	10 1/2	266.7	1 1/8	28.6	8	5
6	6 5/8	168.3	10 1/2	266.7	14	355.6	11 1/2	292.1	1 1/8	28.6	12	6
8	8 5/8	219.1	12 5/8	320.7	16 1/2	419.1	13 3/4	349.3	1 1/4	31.8	12	8
10	10 3/4	273.1	15 3/4	400.1	20	508.0	17	431.8	1 3/8	34.9	16	10
12	12 3/4	323.9	18	457.2	22	558.8	19 1/4	489.0	1 3/8	34.9	20	12
14	14	355.6	19 3/8	492.1	23 3/4	603.3	20 3/4	527.1	1 1/2	38.1	20	14
16	16	406.4	22 1/4	565.2	27	685.8	23 3/4	603.3	1 5/8	41.3	20	16
18	18	457.2	24 1/8	612.8	29 1/4	743.0	25 3/4	654.1	1 3/4	44.5	20	18
20	20	508.0	26 7/8	682.6	32	812.8	28 1/2	723.9	1 3/4	44.5	24	20
24	24	609.6	31 1/8	790.6	37	939.8	33	838.2	2	50.8	24	24



Gasket Dimensional Tables

ASME B16.20 SCIR Spiral Wound Gasket Dimensions

Size	Inner Ring ID					Element ID					Element OD		Outer Ring OD						
	Class					Class					Class		Class						
	150 300	400 600	900	1500	2500	150 300	400 600	900	1500	2500	150- 600	900- 2500	150	300	400	600	900	1500	2500
1/2"	14.2	14.2	-	14.2	14.2	19.1	19.1	-	19.1	19.1	31.8	31.8	47.8	54.1	-	-	-	-	-
3/4"	20.6	20.6	-	20.6	20.6	25.4	25.4	-	25.4	25.4	39.6	39.6	57.2	66.8	-	-	-	-	-
1"	26.9	26.9	-	26.9	26.9	31.8	31.8	-	31.8	31.8	47.8	47.8	66.8	73.2	-	-	-	-	-
1.1/4"	38.1	38.1	-	33.3	33.3	47.8	47.8	-	39.6	39.6	60.5	60.5	76.2	82.6	-	-	-	-	-
1.1/2"	44.5	44.5	-	41.4	41.4	54.1	54.1	-	47.8	47.8	69.9	69.9	85.9	95.3	-	-	-	-	-
2"	55.6	55.6	-	52.3	52.3	69.9	69.9	-	58.7	58.7	85.9	85.9	104.9	111.3	-	-	-	-	-
2.1/2"	66.5	66.5	-	63.5	63.5	82.6	82.6	-	69.9	69.9	98.6	98.6	124	130.3	-	-	-	-	-
3"	81	81	78.7	78.7	78.7	101.6	101.6	95.3	92.2	92.2	120.7	120.7	136.7	149.4	-	-	-	-	-
4"	106.4	102.6	102.6	97.8	97.8	127	120.7	120.7	117.6	117.6	149.4	149.4	174.8	181.1	177.8	193.8	206.5	209.6	235
5"	131.8	128.3	128.3	124.5	124.5	155.7	147.6	147.6	143	143	177.8	177.8	196.9	215.9	212.9	241.3	247.7	254	279.4
6"	157.2	154.9	154.9	147.3	147.3	182.6	174.8	174.8	171.5	171.5	209.6	209.6	222.3	251	247.7	266.7	289.1	282.7	317.5
8"	215.9	205.7	196.9	196.9	196.9	233.4	225.6	222.3	215.9	215.9	263.7	257.3	279.4	308.1	304.8	320.8	358.9	352.6	387.4
10"	268.2	255.3	246.1	246.1	246.1	287.3	274.6	276.4	266.7	270	317.5	311.2	339.9	362	358.9	400.1	435.1	435.1	476.3
12"	317.5	307.3	292.1	292.1	292.1	339.9	327.2	323.9	323.9	317.5	374.7	368.3	409.7	422.4	419.1	457.2	498.6	520.7	549.4
14"	349.3	342.9	320.8	320.8	-	371.6	362	355.6	362	-	406.4	400.1	450.9	485.9	482.6	492.3	520.7	577.9	-
16"	400.1	389.9	374.7	368.3	-	422.4	412.8	412.8	406.4	-	483.6	457.2	514.4	539.8	536.7	565.2	574.8	641.4	-
18"	449.3	438.2	425.5	425.5	-	474.7	469.9	463.6	463.6	-	527.1	520.7	549.4	596.9	593.9	612.9	638.3	704.9	-
20"	500.1	489	482.6	476.3	-	525.5	520.7	520.7	514.4	-	577.9	571.5	606.6	654.1	647.7	682.8	698.5	765.7	-
24"	603.3	590.6	590.6	577.9	-	628.7	628.7	628.7	616	-	685.8	679.5	717.6	774.7	768.4	790.7	838.2	901.7	-



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