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INTRODUCTION

Ashworth specialises in the stock holding of carbon steel pipe and fittings, to meet the requirements of oil refineries, petrochemical plants, gas plants, power stations and their contractors and fabricators.

Operating within Ashworth is a specialist market-focused team, whose expertise covers both the customer and the manufacturing sectors of the business.

The team are always on hand to offer help and specialist advice, and can also provide fast delivery to any location in the UK.

WE STOCK

- API/A106 HFS pipe – up to 600mm (24")
- A333 low temperature pipe – up to 400mm (16")
- API 5L HFI pipe – up to 600mm (24")
- API 5L SAW pipe – from 600mm (24") to 1200mm (48")
- BS3799, 3000, 6000 PSI fittings – up to 100mm (4")
- BSI640/ANSI B16.9 weld fittings – up to 600mm (24")
- BS1560/ANSI B16.5 flanges – up to 600mm (24")
- ASTM A350 LF2 flanges – up to 600mm (24")

Also Available:

- Stainless steel tube, fittings and flanges
- Hygienic tube and fittings
- WPL6 low temperature fittings

MATERIAL DESCRIPTION

Hot finished seamless carbon steel tubes in accordance with API 5L Grade B and X42 supplied to product specification level 1 (PSL 1).

Also in accordance with ASTM A106 Grade B/ASME SA 106 and NACE MR 01-75.

CHEMICAL COMPOSITION

The chemical composition shall comply with the requirements of API 5L Grade B/X42 and A106/SA 106 Grade B.

The following instructions shall be imposed:

C	0.20% max
Mn	1.15% max
Si	0.10% min
P	0.030% max
S	0.010% max
CEV	0.41% max (long formula)

MECHANICAL PROPERTIES

The mechanical properties shall comply with the requirements of API 5L Grade B/X42 and A106/SA 106 Grade B with the following restrictions:

Yield Strength	289 N/sq.mm (min)
Tensile Strength	415 N/sq.mm (min)

SUPPLY CONDITION

Tubes shall be in the hot finished condition and be free from loose mill scale.

LENGTHS AND END FINISH

Tube lengths will be stated in the purchase order and are to be supplied as either:

All 'SRL' diameters are 5-7 metres

All 'DRL' diameters are 10-12 metres

Pipe ends are to be finished in accordance with API 5L

(uti 1½" NB square cut, 2" NB and above with

walls <= 22mm:bevelled 30 Deg + 5 Deg – 0 Deg)

TESTING

The tubes shall be subject to the test required by API 5L and A106/SA 106.

The following shall be carried out as a minimum:

- Visual inspection
- Tensile test
- Flattening test
- Hydraulic test

CERTIFICATION

The tubes shall be certified in accordance with API 5L Grade B/X42 and ASTM A 106 Grade B/ASME SA 106 Grade B. All test certificates shall carry a statement of conformance to NACE MR 01-75. All test certification should also detail the Ashworth Product code.

PROTECTION

Tubes shall be externally coated with air drying varnish.

MARKING

Each tube shall be marked, irrespective of size, in accordance with the requirements of API 5L Grade B/X42 and ASTM A 106 Grade B/ASME SA 106 Grade B plus cast numbers and item numbers.

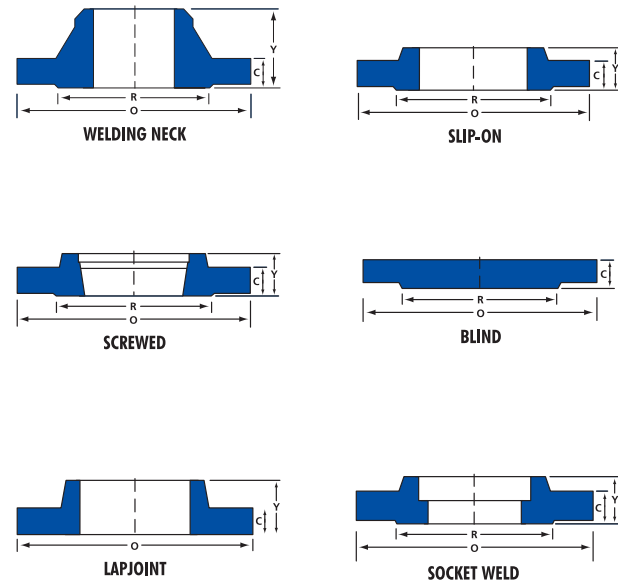
Outside Diameter (OD)			Wall Thickness in mm Weight (mass) in kg/m										Non-Schedule ³⁾			
NPS ¹⁾	DN ²⁾	Inch	mm	Schedule										STD	XS	XXS
				20	30	40	60	80	100	120	140	160				
3/8	10	0.675	17.1	–	–	2.31	–	3.20	–	–	–	–	2.31	3.32	–	
				–	–	0.84	–	1.10	–	–	–	–	0.84	1.10	–	
1/2	15	0.840	21.3	–	–	2.77	–	3.73	–	–	–	4.78	2.77	3.73	7.47	
				–	–	1.27	–	1.62	–	–	–	1.95	1.27	1.62	2.55	
3/4	20	1.050	26.7	–	–	2.87	–	3.91	–	–	–	5.56	2.87	3.91	7.82	
				–	–	1.69	–	2.20	–	–	–	2.90	1.69	2.20	3.64	
1	25	1.315	33.4	–	–	3.38	–	4.55	–	–	–	6.35	3.38	4.55	9.09	
				–	–	2.50	–	3.24	–	–	–	4.24	2.50	3.24	5.45	
1 1/4	32	1.660	42.2	–	–	3.56	–	4.85	–	–	–	6.35	3.56	4.85	9.70	
				–	–	3.39	–	4.47	–	–	–	5.61	3.39	4.47	7.77	
1 1/2	40	1.900	48.3	–	–	3.68	–	5.08	–	–	–	7.14	3.68	5.08	10.15	
				–	–	4.05	–	5.41	–	–	–	7.25	4.05	5.41	9.55	
2	50	2.375	60.3	–	–	3.91	–	5.54	–	–	–	8.74	3.91	5.54	11.07	
				–	–	5.44	–	7.48	–	–	–	11.11	5.44	7.48	13.44	
2 1/2	65	2.875	73	–	–	5.16	–	7.01	–	–	–	9.53	5.16	7.01	14.02	
				–	–	8.63	–	11.41	–	–	–	14.92	8.63	11.41	20.39	
3	80	3.500	88.9	–	–	5.49	–	7.62	–	–	–	11.13	5.49	7.62	15.24	
				–	–	11.29	–	15.27	–	–	–	21.35	11.29	15.27	27.68	
3 1/2	90	4.000	101.6	–	–	5.74	–	8.08	–	–	–	–	5.74	8.08	–	
				–	–	13.57	–	18.64	–	–	–	–	13.57	18.64	–	
4	100	4.500	114.3	–	–	6.02	–	8.56	–	11.13	–	13.49	6.02	8.56	17.12	
				–	–	16.08	–	22.32	–	28.32	–	33.54	16.08	22.32	41.03	
5	125	5.663	141.3	–	–	6.55	–	9.53	–	12.70	–	15.88	6.55	9.53	19.05	
				–	–	21.77	–	30.97	–	40.28	–	49.12	21.77	30.97	57.43	
6	150	6.625	168.3	–	–	7.11	–	10.97	–	14.27	–	18.26	7.11	10.97	21.95	
				–	–	28.26	–	42.56	–	54.21	–	67.57	28.26	42.56	79.22	
8	200	8.625	219.1	6.35	7.04	8.18	10.31	12.70	15.09	18.26	20.62	23.01	8.18	12.70	22.23	
				33.32	36.82	42.55	53.09	64.64	75.92	90.44	100.93	111.27	42.55	64.64	107.93	
10	250	10.750	273.0	6.35	7.80	9.27	12.70	15.09	18.26	21.44	25.40	28.58	9.27	12.70	25.40	
				41.76	51.01	60.29	81.53	95.98	114.71	133.01	155.10	172.27	60.29	81.53	155.10	
12	300	12.750	323.8	6.35	8.38	10.31	14.27	17.48	21.44	25.40	28.58	33.32	9.53	12.70	25.40	
				49.71	65.19	79.71	108.93	132.05	159.87	186.92	208.08	238.69	73.86	97.44	186.92	
14	350	14.000	355.6	7.92	9.53	11.13	15.09	19.05	23.83	27.29	31.75	35.71	9.53	12.70	–	
				67.91	81.33	94.55	126.72	158.11	194.98	224.66	253.58	281.72	81.33	107.40	–	
16	400	16.000	406.4	7.92	9.53	12.70	16.66	21.44	26.19	30.96	36.53	40.49	9.53	12.70	–	
				77.83	93.27	123.31	160.13	203.54	245.57	286.66	333.21	365.38	93.27	123.31	–	
18	450	18.000	457	7.92	11.13	14.27	19.05	23.83	29.36	34.93	39.67	45.24	9.53	12.70	–	
				87.71	122.38	155.81	205.75	254.57	309.64	363.58	408.28	459.39	105.17	139.16	–	
20	500	20.000	508	9.53	12.70	15.09	20.62	26.19	32.54	38.10	44.45	50.01	9.53	12.70	–	
				117.15	155.13	188.43	247.84	311.19	381.55	441.52	508.15	564.85	117.15	155.13	–	
22	–	22.000	559	9.53	12.70	–	22.23	28.58	34.93	41.28	47.63	53.98	9.53	12.70	–	
				129.14	171.10	–	294.27	373.85	451.45	527.05	600.67	672.30	129.14	171.10	–	
24	600	24.000	610	9.53	14.27	–	17.48	24.61	30.96	38.89	46.02	52.37	9.53	12.70	–	
				141.12	209.65	255.43	355.28	442.08	547.71	640.03	720.15	808.22	141.12	187.06	–	
26	–	26.000	660	–	–	–	–	–	–	–	–	–	9.53	12.70	–	
				–	–	–	–	–	–	–	–	–	152.88	202.74	–	
28	700	28.000	711	12.70	15.88	–	–	–	–	–	–	–	9.53	12.70	–	
				218.71	272.23	–	–	–	–	–	–	–	164.86	218.71	–	
30	750	30.000	762	12.70	15.88	–	–	–	–	–	–	–	9.53	12.70	–	
				234.67	292.18	–	–	–	–	–	–	–	175.84	234.67	–	
32	800	32.000	812	12.70	15.88	–	–	–	–	–	–	–	9.53	12.70	–	
				250.64	312.15	–	–	–	–	–	–	–	188.82	250.64	–	
34	850	34.000	863	12.70	15.88	–	–	–	–	–	–	–	9.53	12.70	–	
				266.71	332.12	–	–	–	–	–	–	–	200.31	266.61	–	
36	900	36.000	914	12.70	15.88	–	–	–	–	–	–	–	9.53	12.70	–	
				282.27	351.70	–	–	–	–	–	–	–	212.56	282.27	–	
38	950	38.000	965	–	–	–	–	–	–	–	–	–	9.53	12.70	–	
				–	–	–	–	–	–	–	–	–	224.54	298.24	–	
40	1000	40.000	1015	–	–	–	–	–	–	–	–	–	9.53	12.70	–	
				–	–	–	–	–	–	–	–	–	236.53	314.22	–	
42	1050	42.000	1067	–	–	–	–	–	–	–	–	–	9.53	12.70	–	
				–	–	–	–	–	–	–	–	–	248.52	330.19	–	
48	1200	48.000	1219	–	–	–	–	–	–	–	–	–	9.53	12.70	–	
				–	–	–	–	–	–	–	–	–	284.24	377.80	–	

Quality Tube Flange Dimensions to BS1560 Carbon Steel Flanges to ANSI B16.5

Quality Tube Weld Fittings BS1640 / ANSI B16.9

ASA 150lb

Nominal Pipe Size	Outside Diameter of Flange O	Thickness of Flange C	Diameter of Raised Face R	Length through hub - Y			Drilling		
				Welding Neck	Slip-on, Screwed, Socket Weld	Lap Joint	Diameter of Bolt	No.	mm
15	89.0	11.1	34.9	47.6	15.9	15.9	60.3	4	15.9
20	98.0	12.7	42.9	52.4	15.9	15.9	69.8	4	15.9
25	108.0	14.3	50.8	55.6	17.5	17.5	79.4	4	15.9
32	117.0	15.9	63.5	57.2	20.6	20.6	88.9	4	15.9
40	127.0	17.5	73.0	61.9	22.2	22.2	98.4	4	15.9
50	152.0	19.0	92.1	63.5	25.4	25.4	120.6	4	19.0
65	178.0	22.2	104.8	69.9	28.6	28.6	139.7	4	19.0
80	190.0	23.8	127.0	69.9	30.2	30.2	152.4	4	19.0
90	216.0	23.8	139.7	71.4	31.7	31.7	177.8	8	19.0
100	229.0	23.8	157.2	76.2	33.3	33.3	190.5	8	19.0
125	254.0	23.8	185.7	88.9	36.5	36.5	215.9	8	22.2
150	279.0	25.4	215.9	88.9	39.7	39.7	241.3	8	22.2
200	343.0	28.6	269.9	101.6	44.5	44.5	298.4	8	22.2
250	406.0	30.2	323.8	101.6	49.2	49.2	362.0	12	25.4
300	483.0	31.8	381.0	114.3	55.6	55.6	431.8	12	25.4
350	533.0	34.9	412.7	127.0	57.2	57.2	476.2	12	28.6
400	597.0	36.5	469.9	127.0	63.5	63.5	539.8	16	28.6
450	635.0	39.7	533.4	139.7	68.3	68.3	577.8	16	31.8
500	698.0	42.9	584.2	144.5	73.0	73.0	635.0	20	31.8
550	749.0	46.0	641.3	149.2	79.4	79.4	692.1	20	34.9
600	813.0	47.6	692.1	152.4	82.6	82.6	749.3	20	34.9



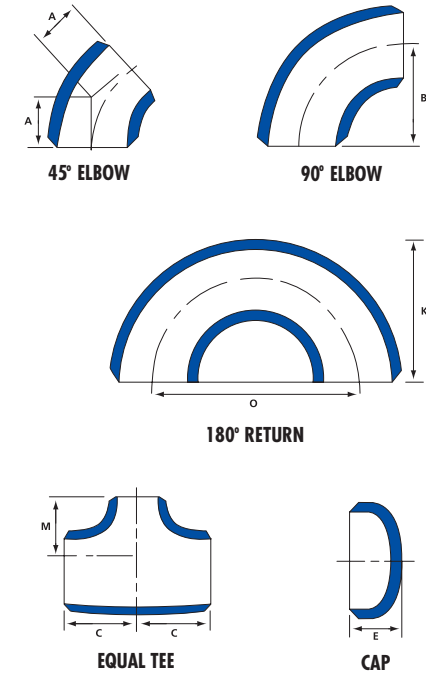
ASA 300lb

Nominal Pipe Size	Outside Diameter of Flange O	Thickness of Flange C	Diameter of Raised Face R	Length through hub - Y			Drilling		
				Welding Neck	Slip-on, Screwed, Socket Weld	Lap Joint	Diameter of Bolt Circle	No.	mm
0.5	95.0	14.3	34.9	52.4	22.2	22.2	66.7	4	15.9
20	117.0	15.9	42.9	57.2	25.4	25.4	82.6	4	19.0
25	123.8	17.5	50.8	61.9	27.0	27.0	88.9	4	19.0
32	133.3	19.0	63.5	65.1	27.0	27.0	98.4	4	19.0
40	155.6	20.6	73.0	68.3	30.2	30.2	114.3	4	22.2
50	165.1	22.2	92.1	69.9	33.3	33.3	127.0	8	19.0
65	190.0	25.4	104.8	76.2	38.1	38.1	149.2	8	22.2
80	209.5	28.6	127.0	79.4	42.9	42.9	168.3	8	22.2
90	288.6	30.2	139.7	81.0	44.4	44.4	184.1	8	22.2
100	254.0	31.8	157.2	85.7	47.6	47.6	200.0	8	22.2
125	279.4	34.9	185.7	98.4	50.8	50.8	234.9	8	22.2
150	317.5	36.5	215.9	98.4	52.4	52.4	269.9	12	22.2
200	381.0	41.3	269.9	111.1	61.9	61.9	330.2	12	25.4
250	444.0	47.6	323.8	117.5	66.8	66.8	387.4	16	28.6
300	520.7	50.8	381.0	130.2	73.0	73.0	450.8	16	31.8
350	584.2	54.0	412.7	142.9	76.2	76.2	514.4	20	31.8
400	647.7	57.2	469.9	146.1	82.6	82.6	571.5	20	34.9
450	711.2	60.3	533.4	158.8	88.9	88.9	628.6	24	34.9
500	774.7	63.5	584.2	161.9	95.3	95.3	685.8	24	34.9
550	838.2	66.7	641.3	165.1	101.6	101.6	742.9	24	41.3
600	914.4	69.8	692.1	168.3	106.4	106.4	812.8	24	41.3

ASA 600lb

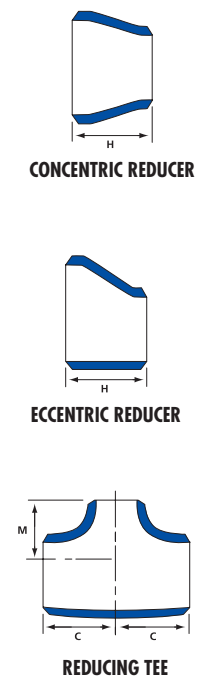
Nominal Pipe Size	Outside Diameter of Flange O	Thickness of Flange C	Diameter of Raised Face R	Length through hub - Y			Drilling		
				Welding Neck	Slip-on, Screwed, Socket Weld	Lap Joint	Diameter of Bolt	No.	mm
15	95.0	14.3	34.9	52.4	22.2	22.2	66.7	4	15.9
20	117.0	15.9	42.9	57.1	25.4	25.4	82.6	4	19.0
25	124.0	17.5	50.8	61.9	27.0	27.0	88.9	4	19.0
32	133.3	20.6	63.5	66.8	28.6	28.6	98.4	4	19.0
40	155.6	22.2	73.0	69.9	31.8	31.8	114.3	4	22.2
50	165.1	25.4	92.1	73.0	36.5	36.5	127.0	8	19.0
65	190.0	28.6	104.8	79.4	41.3	41.3	149.2	8	22.2
80	209.5	31.8	127.0	82.6	46.0	46.0	168.3	8	22.2
90	228.6	34.9	139.7	85.7	49.2	49.2	184.1	8	25.4
100	273.0	38.1	157.2	101.6	54.0	54.0	215.9	8	25.4
125	330.2	44.4	185.7	114.3	60.3	60.3	266.7	8	28.6
150	355.6	47.6	215.9	117.5	66.8	66.8	292.1	12	28.6
200	419.1	55.6	269.9	133.4	76.2	76.2	349.2	12	31.8
250	508.0	63.5	323.8	152.4	85.7	85.7	431.8	16	34.9
300	558.8	66.7	381.0	155.6	92.1	92.1	488.9	20	34.9
350	603.2	69.8	412.7	165.1	93.7	93.7	527.0	20	38.1
400	685.8	76.2	469.9	177.8	106.4	106.4	603.2	20	41.3
450	742.9	82.6	533.4	184.2	117.5	117.5	654.0	20	44.4
500	812.8	88.9	584.2	190.5	127.0	127.0	723.0	24	44.4
550	870.0	95.2	641.3	196.8	133.3	133.3	777.9	24	47.6
600	939.8	101.6	692.1	203.2	139.7	139.7	838.2	24	50.8

Nominal Pipe Size	Long Radius				Short Radius			Equal Tees C and M No.	Caps E mm
	45 Elbows A mm	90 Elbows B mm	180 Returns K mm	O mm	90 Elbows B mm	180 Returns K mm	O mm		
15	16.0	38.0	48.0	76.0				25.0	25.0
20	19.0*	38.0*	43.0	57.0				28.0	25.0
25	22.0	38.0	56.0	76.0	25.0	41.0	51.0	38.0	38.0
32	25.0	48.0	70.0	95.0	32.0	52.0	64.0	48.0	38.0
40	29.0	57.0	83.0	114.0	38.0	62.0	76.0	57.0	38.0
50	35.0	76.0	106.0	152.0	51.0	81.0	102.0	64.0	38.0
65	44.0	95.0	132.0	191.0	64.0	100.0	127.0	76.0	38.0
80	51.0	114.0	159.0	229.0	76.0	121.0	152.0	86.0	51.0
90	57.0	133.0	184.0	267.0	89.0	140.0	178.0	95.0	64.0
100	64.0	152.0	210.0	305.0	102.0	159.0	203.0	105.0	64.0
125	79.0	190.0	262.0	381.0	127.0	197.0	254.0	124.0	76.0
150	95.0	229.0	313.0	457.0	152.0	237.0	305.0	143.0	89.0
200	127.0	305.0	414.0	610.0	203.0	313.0	406.0	178.0	102.0
250	159.0	381.0	518.0	762.0	254.0	391.0	508.0	216.0	127.0
300	190.0	457.0	619.0	914.0	305.0	467.0	610.0	254.0	152.0
350	222.0	533.0	711.0	1067.0	356.0	533.0	711.0	279.0	165.0
400	254.0	610.0	813.0	1219.0	406.0	610.0	813.0	305.0	178.0
450	286.0	686.0	914.0	1372.0	457.0	686.0	914.0	343.0	203.0
500	318.0	762.0	1016.0	1524.0	508.0	762.0	1016.0	381.0	229.0
550	343.0	838.0	1118.0	1676.0	559.0	838.0	1118.0	419.0	254.0
600	381.0	914.0	1219.0	1829.0	610.0	914.0	1219.0	432.0	267.0
650	406.4	990.6							267.0
700	438.2	1066.8							267.0
750	469.9	1143.0						559.0	267.0
900	565.2	1371.6						673.0	267.0



Nominal Pipe Size	Reducers Height H mm	Reducing Tees Centre to End	
		Run C mm	Branch M mm
20 x 15	38.0		
25 x 20	51.0	38.0	38.0
25 x 15	51.0	38.0	38.0
32 x 25	51.0	48.0	48.0
32 x 20	51.0	48.0	48.0
40 x 32	64.0	57.0	57.0
40 x 25	64.0	57.0	57.0
40 x 20	64.0	57.0	57.0
50 x 40	76.0	64.0	60.0
50 x 25	76.0	64.0	51.0
65 x 50	89.0	76.0	70.0
65 x 40	89.0	76.0	67.0
80 x 65	89.0	86.0	83.0
80 x 50	89.0	86.0	76.0
80 x 40	89.0	86.0	73.0
100 x 80	102.0	105.0	98.0
100 x 65	102.0	105.0	95.0
100 x 50	102.0	105.0	88.9
125 x 100	127.0	124.0	117.0
125 x 80	127.0	124.0	111.0
150 x 125	140.0	143.0	137.0
150 x 100	140.0	143.0	130.0
150 x 80	140.0	143.0	124.0

Nominal Pipe Size	Reducers Height H mm	Reducing Tees Centre to End	
		Run C mm	Branch M mm
200 x 150	152.0	178.0	168.0
200 x 125	152.0	178.0	162.0
200 x 100	152.0	178.0	156.0
250 x 200	178.0	216.0	203.0
250 x 150	178.0	216.0	194.0
300 x 250	203.0	254.0	241.0
300 x 200	203.0	254.0	229.0
300 x 150	203.0	254.0	219.0
350 x 300	330.0	279.0	270.0
350 x 250	330.0	279.0	257.0
400 x 350	356.0	305.0	305.0
400 x 300	356.0	305.0	295.0
400 x 250	356.0	305.0	283.0
450 x 400	381.0	343.0	330.0
450 x 350	381.0	343.0	330.0
450 x 300	381.0	343.0	321.0
500 x 450	508.0	381.0	368.0
500 x 400	508.0	381.0	356.0
500 x 350	508.0	381.0	356.0
600 x 500	508.0	432.0	432.0
600 x 450	508.0	432.0	419.0
600 x 400	508.0	432.0	406.0

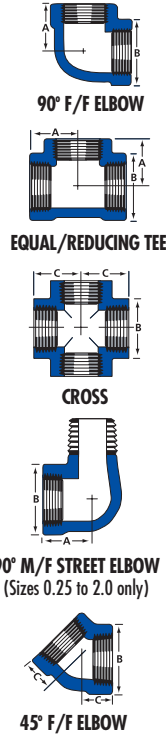


*These items may be supplied to alternative dimensions A:11.0 and B:29.0 at manufacturer's discretion

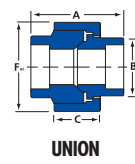
Quality Tube Forged Steel Fittings BS3799 / ANSI B16.11 Threaded

Quality Tube Forged Steel Fittings BS3799 / ANSI B16.11 Socket Weld

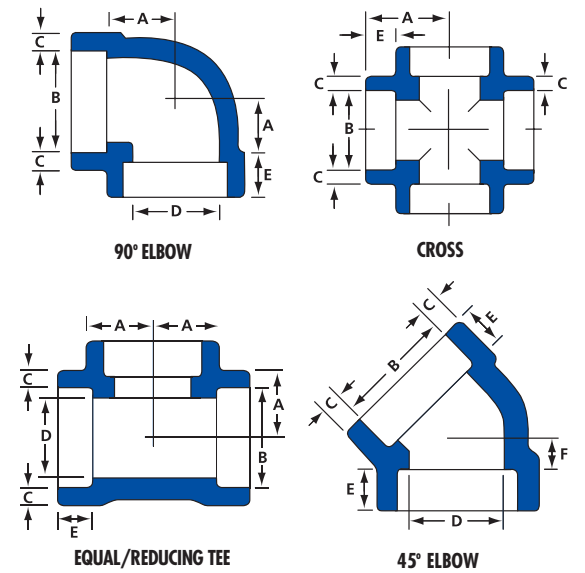
Nominal Pipe Size inches	Nominal Pipe Size mm	A inches mm	B inches mm	C inches mm
0.125	6	0.81 20.60	0.88 22.40	0.69 17.50
0.25	8	0.97 24.60	1.00 25.40	0.75 19.10
0.375	10	1.12 28.40	1.31 33.30	0.88 22.40
0.5	15	1.31 33.30	1.50 38.10	1.00 25.40
0.75	20	1.50 38.10	1.81 46.00	1.12 28.40
1	25	1.75 44.50	2.19 55.60	1.31 33.30
1.25	32	2.00 50.80	2.44 62.00	1.38 35.10
1.5	40	2.38 60.50	2.97 75.40	1.69 42.90
2	50	2.50 63.50	3.31 84.10	1.72 43.70
2.5	65	3.25 82.60	4.00 101.60	2.06 52.30
3	80	3.75 95.20	4.75 120.70	2.50 63.50
4	100	4.50 114.30	6.00 152.40	3.12 79.20



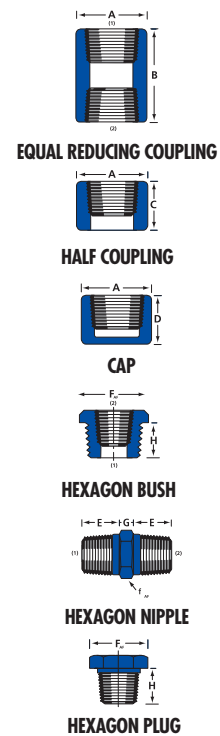
Nominal Pipe Size inches	Nominal Pipe Size mm	A inches mm	B inches mm	C inches mm	F ₁ inches mm
0.125	6	1.57 39.90	0.67 17.00	0.63 16.00	1.26 32.00
0.25	8	1.69 42.90	0.75 19.10	0.71 18.00	1.26 32.00
0.375	10	1.89 48.00	0.87 22.10	0.75 19.10	1.42 36.10
0.5	15	2.00 50.80	1.18 29.90	0.83 21.10	1.69 42.90
0.75	20	2.24 56.90	1.42 36.10	0.94 23.90	1.97 50.00
1	25	2.52 64.00	1.61 40.90	0.98 24.90	2.36 59.90
1.25	32	2.76 70.10	1.97 50.10	1.14 28.90	2.76 70.10
1.5	40	3.11 78.90	2.36 59.90	1.18 29.90	3.07 77.90
2	50	3.50 88.90	2.76 70.10	1.46 37.10	3.74 94.90
2.5	65	4.65 118.10	3.35 85.10	1.89 48.00	4.92 124.90
3	80	4.76 120.90	3.94 100.10	2.00 50.80	5.51 139.90
4	100	6.25 158.80	5.50 139.70	2.63 66.80	7.50 190.50



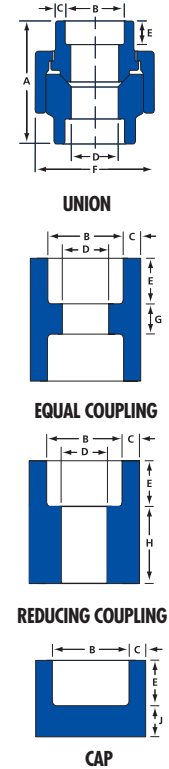
Nominal Pipe Size inches	Nominal Pipe Size mm	A inches mm	B inches mm	C inches mm	D inches mm	E inches mm	F inches mm
0.125	6	0.44 11.20	0.42 10.67	0.125 3.20	0.239 6.10	0.38 9.70	0.31 7.90
0.25	8	0.44 11.20	0.555 14.10	0.13 3.30	0.334 8.50	0.38 9.70	0.31 7.90
0.375	10	0.53 13.50	0.69 17.53	0.138 3.50	0.463 11.80	0.38 9.70	0.31 7.90
0.5	15	0.62 15.80	0.859 21.80	0.161 4.10	0.592 15.00	0.38 9.70	0.44 11.20
0.75	20	0.75 19.10	1.065 27.10	0.168 4.30	0.794 20.20	0.50 12.70	0.50 12.70
1	25	0.88 22.40	1.33 33.80	0.196 4.90	1.019 25.90	0.50 12.70	0.56 14.20
1.25	32	1.06 26.90	1.675 42.50	0.208 5.30	1.35 34.30	0.50 12.70	0.69 17.50
1.5	40	1.25 31.80	1.915 48.60	0.218 5.50	1.58 40.10	0.50 12.70	0.81 20.60
2	50	1.50 38.10	2.406 61.10	0.238 6.00	2.037 51.70	0.62 15.70	1.00 25.40
2.5	65	1.62 41.15	2.706 68.70	0.302 7.70	2.409 61.20	0.62 15.70	1.12 28.50
3	80	2.25 57.20	3.535 89.80	0.327 8.30	3.068 77.90	0.62 15.70	1.25 31.80
4	100	2.62 66.60	4.545 115.40	0.368 9.30	3.966 100.70	0.75 19.10	1.62 41.20



Nominal Pipe Size inches	Nominal Pipe Size mm	A inches mm	B inches mm	C inches mm	D inches mm	E BSP inches mm	E NPT inches mm	F ₁ inches mm	f ₁ inches mm	G inches mm	H inches mm
0.125	6	0.62 15.70	1.25 31.70	0.63 16.00	0.75 19.10	0.39 9.90	0.38 9.90	0.44 11.20	0.433 11.00	0.24 6.10	0.38 9.70
0.25	8	0.75 19.00	1.38 35.00	0.69 17.60	1.00 25.40	0.59 15.00	0.44 11.20	0.62 15.80	0.59 15.00	0.24 6.10	0.44 11.20
0.375	10	0.88 22.00	1.50 38.10	0.75 19.10	1.00 25.40	0.63 16.00	0.50 12.70	0.69 17.60	0.71 18.10	0.31 7.90	0.50 12.70
0.5	15	1.12 28.40	1.88 47.80	0.94 23.90	1.25 31.80	0.79 20.10	0.56 14.30	0.88 22.40	0.87 22.10	0.31 7.90	0.56 14.30
0.75	20	1.38 35.00	2.00 50.80	1.00 25.40	1.44 36.60	0.83 21.10	0.62 15.80	1.06 27.00	1.06 27.00	0.39 9.90	0.62 15.80
1	25	1.75 44.50	2.38 60.50	1.19 30.30	1.62 41.20	0.98 24.90	0.75 19.10	1.38 35.10	1.38 35.10	0.39 9.90	0.75 19.10
1.25	32	2.25 57.20	2.62 66.60	1.31 33.30	1.75 44.50	0.81 20.60	0.81 20.60	1.75 44.50	1.81 46.00	0.49 12.50	0.81 20.60
1.5	40	2.50 63.50	3.13 79.50	1.56 39.70	1.75 44.50	1.02 25.90	0.81 20.60	2.00 50.80	1.97 50.10	0.63 16.00	0.81 20.60
2	50	3.00 76.20	3.38 85.90	1.69 43.00	1.88 47.80	1.06 27.00	0.88 22.40	2.50 63.50	2.44 62.00	0.67 17.10	0.88 22.40
2.5	65	3.62 92.00	3.62 92.00	1.81 46.00	2.38 60.50	1.61 40.90	1.06 27.00	3.00 76.20	2.99 76.00	0.75 19.10	1.06 27.00
3	80	4.25 108.00	4.25 108.00	2.13 54.10	2.56 65.10	1.65 42.00	1.12 28.50	3.50 88.90	3.70 94.00	0.81 20.60	1.12 28.50
4	100	5.50 139.70	4.75 120.70	2.38 60.50	2.69 68.50	1.77 45.00	1.25 31.80	4.62 117.40	4.65 118.20	1.00 25.40	1.25 31.80



Nominal Pipe Size inches	Nominal Pipe Size mm	A inches mm	B inches mm	C inches mm	D inches mm	E inches mm	F ₁ inches mm	G inches mm	H inches mm	J inches mm
0.125	6	1.46 37.10	0.42 10.70	0.125 3.20	0.239 6.10	0.38 9.70	1.26 32.00	0.25 6.40	0.62 15.70	0.16 4.10
0.25	8	1.46 37.10	0.555 14.10	0.13 3.30	0.334 8.50	0.38 9.70	1.26 32.00	0.25 6.40	0.62 15.70	0.28 7.10
0.375	10	1.46 37.10	0.69 17.50	0.138 3.50	0.463 11.80	0.38 9.70	1.42 36.10	0.25 6.40	0.69 17.50	0.28 7.10
0.5	15	1.50 38.10	0.855 21.70	0.161 4.10	0.592 15.00	0.38 9.70	1.69 42.90	0.38 9.70	0.88 22.40	0.31 7.90
0.75	20	1.81 45.90	1.065 27.10	0.168 4.30	0.794 20.20	0.50 12.70	1.97 50.00	0.38 9.70	0.96 24.40	0.39 9.90
1	25	2.05 52.10	1.33 33.80	0.196 4.90	1.019 25.90	0.50 12.70	2.36 59.90	0.50 12.70	1.12 28.50	0.43 10.90
1.25	32	2.13 54.10	1.675 42.60	0.208 5.30	1.35 34.30	0.50 12.70	2.76 70.10	0.50 12.70	1.19 30.20	0.51 12.90
1.5	40	2.20 55.90	1.915 48.60	0.218 5.50	1.58 40.10	0.50 12.70	3.07 77.90	0.50 12.70	1.25 31.80	0.55 13.90
2	50	2.68 68.10	2.406 61.10	0.238 6.10	2.037 51.80	0.62 15.70	3.74 94.90	0.75 19.10	1.62 41.20	0.71 18.00
2.5	65	3.50 88.90	2.906 73.80	0.302 7.70	2.409 61.20	0.62 15.70	4.92 124.90	0.75 19.10	1.69 42.90	0.83 21.10
3	80	3.78 96.00	3.535 89.80	0.327 8.30	3.068 77.90	0.62 15.70	3.51 139.90	0.75 19.10	1.75 44.50	0.94 23.90
4	100	6.25 158.80	4.545 115.40	0.368 9.40	3.966 100.70	0.75 19.10	7.50 190.50	0.75 19.10	1.88 47.80	0.95 24.10



Fittings available either Hot Dipped Galvanised or Electro plated to BS1706
Threaded fittings are available either Threaded to ANSI B1.20(NPT) or Screwed BS21 Taper Thread (BSP)

A full range of pipe nipples is also available from stock