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**KALPATARU
PIPING SOLUTIONS**

AN ISO 9001:2015 / PED C E / API 5L APPROVED CO.



BUTT-WELD FITTINGS

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A 403 WP - 304/304H304L/316/316H
316/316Ti, 309, 310, 317L, 321, 347, 904L

Duplex & : Standard
Super Duplex : ASTM A815 - UNS S31803, S32205 (2205)
Lean
ASTM A 815, 790 - UNS S32304 (2304)
Super Duplex
ASTM A815 790 - UNS S32750 (2507)
UNS S32760 (Zeron 100)

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B 366 N02200, N02201

Inconel : ASTM B 366 N06600, N06601, N06617
ASTM B 366 N07718, ASTM B 366 N06625

Incoloy : ASTM B 366 N08800, N08810
ASTM B 366 N08825, ASTM B 366 N08020

Hastelloy : ASTM B 366 N10276, N06022
ASTM B366 N10665, ASTM B 366 N06455

Titanium

Commercially : ASTM B 363

Titanium Pure : Gr.1 R 56250 (CP4) Gr.2 R 50400 (CP3)
Gr.3 R 50550 (Cp2) Gr.4 R 50700 (Cp1)
Gr.7 R 52400 Gr.11 R 52250

Titanium Alloys : ASTM B 363
Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr.12 R 53400

Cupro Nickel

ASTM B 466 C70600 (90:10), ASTM B 466 C71500 (70:30)

Monel

ASTM B 366 N04400, DIN N05500

Alloy Steel, Carbon Steel & LTCS

Alloy Steel : ASTM A 234 WPB WP 5, WP 9, WP 11,
WP 12, WP 22, WP 91

Carbon Steel : ASTM A234 WPB, IS 1239 PART II

Low Temp. CS : ASTM A-420 WPL6

Other Service : Hot Dip Galvanizing, Sand Blasting

Size

Fittings : Seamless 15NB To 600NB
Split / Welded 100NB To 1200NB

Schedule : Sch. 5 to Sch. XXS

Types

Stubend - (Long & Short) Elbow (45 DEG, 90 DEG, 180 DEG)

U Bend Tee - (Barred, Equal, Reducing)

End Cap Reducer - (Concentric & Eccentric)

Laterals Nipple - (swage & Barrel)

Test Certificate

Manufacturer Test Certification (En 3.1 & 3.2, IBR Test Certificate)

Specializing in :

Hi-Nickel & Stainless Steel Series

Inconel®, Incoloy®, Monel®, Hastelloy®, Duplex®,
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LONG RADIUS BENDS

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A 403 WP - 304/304H304L/316/316H
316/316Ti, 309, 310, 317L, 321, 347, 904L

Duplex & : Standard
Super Duplex : ASTM A815 - UNS S31803, S32205 (2205)
Lean
ASTM A 815, 790 - UNS S32304 (2304)
Super Duplex
ASTM A815 790 - UNS S32750 (2507)
UNS S32760 (Zeron 100)

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B 366 N02200, N02201

Inconel : ASTM B 366 N06600, N06601, N06617
ASTM B 366 N07718, ASTM B 366 N06625

Incoloy : ASTM B 366 N08800, N08810
ASTM B 366 N08825, ASTM B 366 N08020

Hastelloy : ASTM B 366 N10276, N06022
ASTM B366 N10665, ASTM B 366 N06455

Titanium

Commercially : ASTM B 363

Titanium Pure : Gr.1 R 56250 (CP4) Gr.2 R 50400 (CP3)
Gr.3 R 50550 (Cp2) Gr.4 R 50700 (Cp1)
Gr.7 R 52400 Gr.11 R 52250

Titanium Alloys : ASTM B 363
Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr.12 R 53400

Cupro Nickel

ASTM B 466 C70600 (90:10), ASTM B 466 C71500 (70:30)

ASTM B 366 N04400, DIN N05500

Alloy Steel, Carbon Steel & LTCS

Alloy Steel : ASTM A 234 WPB WP 5, WP 9, WP 11,
WP 12, WP 22, WP 91

Carbon Steel : ASTM A234 WPB, IS 1239 PART II

Low Temp. CS : ASTM A-420 WPL6

Other Service : Hot Dip Galvanizing, Sand Blasting

Size

15NB to 900NB
Schedule : Sch. 5 to Sch. XXS

Bend - Angle

10 Degree To 360 Degree

"J" & "S" Bends

We Manufacture Upto 22 D

Dimension Standard

ASME/ ANSI B16.9, MSS SP - 44
& 75 Also As Per Drawing

Test Certificate

Manufacturer Test Certification (En 3.1 & 3.2, IBR Test Certificate)

Specializing in :

Hi-Nickel & Stainless Steel Series

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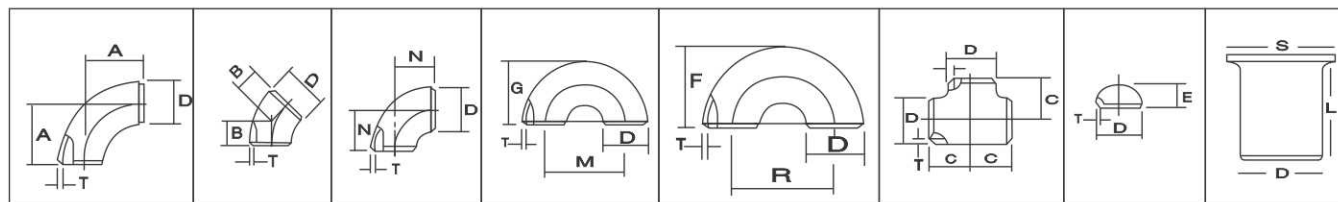
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DIMENSIONS OF BUTT-WELDING FITTING ANSI B-16.9 / B-16.28 / MSS SP 43



90 Elbow
Long Radius

45 Elbow

90 Elbow
Short Radius

180 Return
Short Radius

180 Return
Long Radius

Tee Equal Tee

Caps

Stub-End

Nominal Pipe Size		Outside Diameter	Center to Face				Back to Face			Center to Center			Length 'L'	
INCH	MM	D	A R=1.5D	B	C	N R=1D	E	F	G	R	M	S	Short L	Long L
1/2	15	21.3	38.00	16.0	25.0	-	25.0	48.0	-	76.0		35.0	50.8	76.2
3/4	20	26.7	29.00	11.0	29.0	-	25.0	43.0	-	57.0		43.0	50.8	76.2
1	25	33.4	38.00	22.0	38.0	25.0	38.0	56.0	41.0	76.0	51.0	51.0	50.8	101.6
1.1/4	32	42.2	48.00	25.0	48.0	32.0	38.0	70.0	52.0	95.0	64.0	64.0	50.8	101.6
1.1/2	40	48.3	57.15	29.0	57.0	38.0	38.0	83.0	62.0	114.0	76.0	73.0	50.8	101.6
2	50	60.3	76.00	35.0	64.0	51.0	38.0	106.0	81.0	152.0	102.0	93.0	63.5	152.4
2.1/2	65	73.0	95.25	44.0	76.0	64.0	38.0	132.0	100.0	191.0	127.0	105.0	63.5	152.4
3	80	88.9	114.30	51.0	86.0	76.0	51.0	159.0	121.0	229.0	152.0	127.0	63.5	152.4
3.1/2	90	101.6	133.35	57.0	95.0	89.0	64.0	184.0	140.0	267.0	178.0	140.0	76.2	152.4
4	100	114.3	152.0	64.0	105.0	102.0	64.0	210.0	159.0	305.0	203.0	157.0	76.2	152.4
5	125	141.3	190.0	79.0	123.0	127.0	76.0	262.0	197.0	381.0	254.0	186.0	76.2	203.2
6	150	168.3	229.0	95.0	143.0	152.0	89.0	313.0	237.0	457.0	305.0	218.0	88.9	203.2
8	200	219.1	305.0	127.0	178.0	203.0	102.0	414.0	313.0	610.0	406.0	270.0	101.6	203.2
10	250	273.1	381.0	159.0	216.0	254.0	127.0	515.0	391.0	762.0	508.0	324.0	127.0	254.0
12	300	323.8	457.0	190.0	254.0	305.0	152.0	619.0	467.0	914.0	610.0	381.0	152.4	254.0
14	350	355.6	533.0	222.0	279.0	356.0	165.0	711.0	533.0	1067.0	711.0	413.0	152.4	305.0
16	400	406.4	610.0	254.0	305.0	406.0	178.0	813.0	610.0	1219.0	813.0	470.0	152.4	305.0
18	450	457.2	686.0	286.0	343.0	457.0	203.0	914.0	686.0	1372.0	914.0	533.0	152.4	305.0
20	500	508.0	762.0	318.0	381.0	508.0	229.0	1016.0	762.0	1524.0	1016.0	584.0	152.4	305.0
22	550	559.0	838.0	343.0	419.0	559.0	254.0	1118.0	838.0	1676.0	1118.0	614.4	152.4	305.0
24	600	610.0	914.0	381.0	432.0	610.0	267.0	1219.0	914.0	1829.0	1219.0	692.0	152.4	305.0
26	650	660.0	991.0	405.0	495.0	660.0	267.0							
28	700	711.0	1067.0	438.0	521.0	771.0	267.0							
30	750	762.0	1143.0	470.0	559.0	762.0	267.0							
32	800	813.0	1219.0	502.0	597.0	813.0	267.0							
34	850	864.0	1295.0	533.0	635.0	864.0	267.0							
36	900	914.4	1372.0	565.0	673.0	914.0	267.0							

All Dimensions in Millimeters



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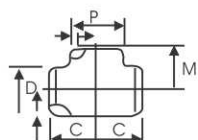
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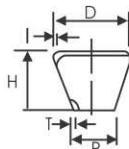
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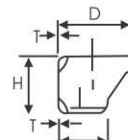
DIMENSIONS OF BUTT-WELDING FITTING ANSI B-16.9 / B-16.28



REDUCING TEES



CONCENTRIC REDUCERS



ECENTRIC REDUCERS

Nominal Pipe Size		Outside Diameter		Center to End		Length
INCH	MM	D	P	C	M	H
1/2 x 3/8	15 x 10	21.3	17.1	25	25	-
1/2 x 1/4	15 x 8	21.3	13.7	25	25	-
3/4 x 1/2	20 x 15	26.7	21.3	29	29	38
3/4 x 3/8	20 x 10	26.7	17.1	29	29	38
1 x 3/4	25 x 20	33.4	26.7	38	38	51
1 x 1/2	25 x 15	33.4	21.3	38	38	51
1 1/4 x 1	32 x 25	42.2	33.4	48	48	51
1 1/4 x 3/4	32 x 20	42.2	26.7	48	48	51
1 1/4 x 1/2	32 x 15	42.2	21.3	48	48	51
1 1/2 x 1 1/4	40 x 32	48.3	42.2	57	57	64
1 1/2 x 1	40 x 25	48.3	33.4	57	57	64
1 1/2 x 3/4	40 x 20	48.3	26.7	57	57	64
1 1/2 x 1/2	40 x 15	48.3	21.3	57	57	64
2 x 1 1/2	50 x 40	60.3	48.3	64	60	76
2 x 1 1/4	50 x 32	60.3	42.2	64	57	76
2 x 1	50 x 25	60.3	33.4	64	51	76
2 x 3/4	50 x 20	60.3	26.7	64	44	76
2 1/2 x 2	65 x 50	73.0	60.3	76	70	89
2 1/2 x 1 1/2	65 x 40	73.0	48.3	76	67	89
2 1/2 x 1 1/4	65 x 32	73.0	42.2	76	64	89
2 1/2 x 1	65 x 25	73.0	33.4	76	57	89
3 x 2 1/2	80 x 65	88.9	73.0	86	83	89
3 x 2	80 x 50	88.9	60.3	86	76	89
3 x 1 1/2	80 x 40	88.9	48.3	86	73	89
3 x 1 1/4	80 x 32	88.9	42.2	86	70	89
4 x 3 1/2	100 x 90	114.3	101.6	105	102	102
4 x 3	100 x 80	114.3	88.9	105	98	102
4 x 2 1/2	100 x 65	114.3	73.0	105	95	102
4 x 2	100 x 50	114.3	60.3	105	89	102
4 x 1 1/2	100 x 40	114.3	48.3	105	86	102
5 x 4	125 x 100	141.3	114.3	124	117	127
5 x 3 1/2	125 x 90	141.3	101.6	124	114	127
5 x 3	125 x 80	141.3	88.9	124	111	127
5 x 2 1/2	125 x 65	141.3	73.0	124	108	127
5 x 2	125 x 50	141.3	60.3	124	105	127
6 x 5	150 x 125	168.3	141.3	143	137	140
6 x 4	150 x 100	168.3	114.3	143	130	140
6 x 3 1/2	150 x 90	168.3	101.6	143	127	140
6 x 3	150 x 80	168.3	88.9	143	124	140
6 x 2 1/2	150 x 65	168.3	73.0	143	121	140

All Dimensions in Millimeters

Nominal Pipe Size		Outside Diameter		Center to End		Length
INCH	MM	D	P	C	M	H
8 x 6	200 x 150	219.1	168.3	178	168	152
8 x 5	200 x 125	219.1	141.3	178	162	152
8 x 4	200 x 100	219.1	114.3	178	156	152
8 x 3 1/2	200 x 90	219.1	101.6	178	152	152
10 x 8	250 x 200	273.1	219.1	216	203	178
10 x 6	250 x 150	273.1	168.1	216	194	178
10 x 5	250 x 125	273.1	141.3	216	191	178
10 x 4	250 x 100	273.1	114.3	216	184	178
12 x 10	300 x 250	323.9	273.1	254	241	203
12 x 8	300 x 200	323.9	219.1	254	229	203
12 x 6	300 x 150	323.9	168.3	254	219	203
12 x 5	300 x 125	323.9	141.3	254	216	203
14 x 12	350 x 300	355.6	323.9	279	270	330
14 x 10	350 x 250	355.6	273.1	279	257	330
14 x 8	350 x 200	355.6	219.1	279	248	330
14 x 6	350 x 150	355.6	168.3	279	238	330
16 x 14	400 x 350	406.4	355.6	305	305	356
16 x 12	400 x 300	406.4	323.9	305	295	356
16 x 10	400 x 250	406.4	273.1	305	283	356
16 x 8	400 x 200	406.4	219.1	305	273	356
16 x 6	400 x 150	406.4	168.3	305	264	356
18 x 16	450 x 400	457.0	406.4	343	330	381
18 x 14	450 x 350	457.0	355.6	343	330	381
18 x 12	450 x 300	457.0	323.9	343	321	381
18 x 10	450 x 250	457.0	273.1	343	308	381
18 x 8	450 x 200	457.0	219.1	343	298	381
20 x 18	500 x 450	508.0	457.0	381	368	508
20 x 16	500 x 400	508.0	406.4	381	356	508
20 x 14	500 x 350	508.0	355.6	381	356	508
20 x 12	500 x 300	508.0	323.9	381	346	508
20 x 10	500 x 250	508.0	273.1	381	333	508
20 x 8	500 x 200	508.0	219.1	381	324	508
24 x 22	600 x 550	610.0	559.0	432	432	508
24 x 20	600 x 500	610.0	508.0	432	432	508
24 x 18	600 x 450	610.0	457.0	432	419	508
24 x 16	600 x 400	610.0	406.4	432	406	508
24 x 14	600 x 350	610.0	355.6	432	406	508
24 x 12	600 x 300	610.0	323.9	432	397	508
24 x 10	600 x 250	610.0	273.1	432	384	508