



HL FITTINGS & FLANGES

QUALITY SOURCING. EASY BUSINESS.

BUTT WELD DIMENSIONS

ASME / ANSI B16.9 • B16.28 • MSS SP-43

ELBOWS • TEES • REDUCERS • RETURNS • CAPS • STUB ENDS





COMPANY PROFILE

HL Fittings & Flanges is a trusted manufacturer, supplier, and stockist of high-quality industrial piping products serving diverse industries across India. We are committed to delivering reliable products, competitive pricing, and exceptional customer service to meet the evolving requirements of our clients.

With a strong focus on quality, precision, and timely delivery, we provide a comprehensive range of industrial products including:

- ✓ **Industrial Flanges**
- ✓ **Butt Weld Fittings**
- ✓ **Custom Components**
- ✓ **Forged Pipe Fittings**
- ✓ **Industrial Valves**
- ✓ **Gaskets**

Our products are sourced and manufactured in compliance with industry standards to ensure durability, performance, and long service life even in demanding operating conditions.



OUR MISSION & VISION



Our Mission

To provide superior quality piping solutions and industrial products that help our customers achieve operational efficiency, safety, and reliability while building long-term business relationships based on trust and transparency.



Our Vision

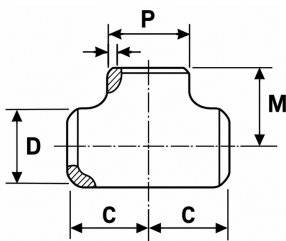
To become a preferred and recognized name in the industrial piping and fittings industry by consistently delivering quality products, dependable service, and value-driven solutions.



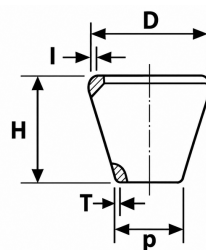
BUTT-WELDING PIPE FITTINGS ANSI B16.9 & B16.28



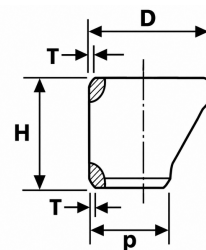
REDUCING TEES



CONCENTRIC REDUCERS



ECCENTRIC REDUCERS



D Outside diameter — large end (run)

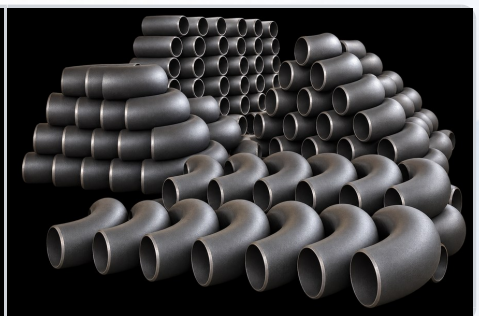
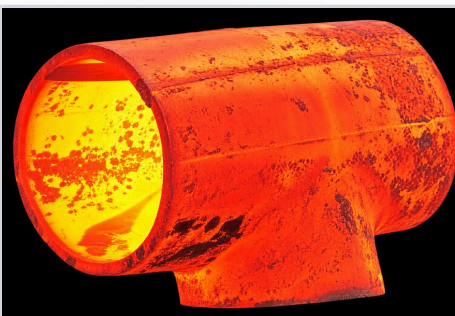
C Center to end — run (tee)

H End to end length (reducers)

P Outside diameter — small end (outlet)

M Center to end — outlet (tee)

T Wall thickness



All dimensions are in Millimeters | We also supply special pipes & fittings as per drawing & customer requirements



REDUCING TEES & REDUCERS — NPS 1/2 x 3/8 to 6 x 2-1/2

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 are in Millimeters | We also supply special pipes & fittings as per drawing & customer requirements



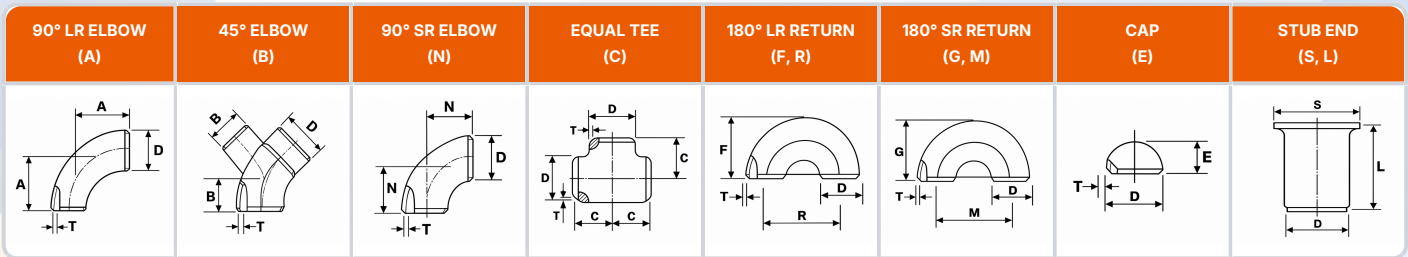
REDUCING TEES & REDUCERS — NPS 8 x 6 to 24 x 10

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	168.3	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	-
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	-
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	-
20 x 8	500 x 200	508.0	219.1	381	324	-
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	-
24 x 12	600 x 300	610.0	323.9	432	397	-
24 x 10	600 x 250	610.0	273.1	432	384	-

All dimensions are in Millimeters | We also supply special pipes & fittings as per drawing & customer requirements



BUTT WELDING PIPE FITTING DIMENSIONS



Nominal Pipe Size		O.D.	Center to Face				Back to Face			Center to Center			Length	
Inch	mm	D	A	B	C	N	E	F	G	R	M	S	L (Short)	L (Long)
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	63.0	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	216.0	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	323.9	457.0	190.0	254.0	303.0	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	406.0	495.0	660.0	267.0	-	-	-	-	-	-	-
28	700	711.0	1067.0	438.0	521.0	711.0	267.0	-	-	-	-	-	-	-
30	750	762.0	1143.0	470.0	589.0	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	914.0	1372.0	565.0	673.0	914.0	267.0	-	-	-	-	-	-	-

Standard ANSI B16.9, B16.28 & MSS SP-43 | All dimensions are in Millimeters



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