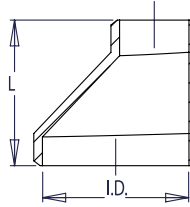
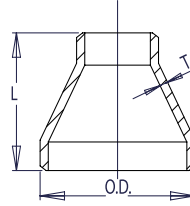


CONCENTRIC AND ECCENTRIC REDUCERS



SCHEDULE STD



WELDBEND NOTES

1. Conforms to ASME B16.9 & ASTM A234 WPB.
 2. All dimensions are in inches.
 3. For bevel detail see page 107.
 4. For dimensional tolerances see page 108.
 5. For sizes larger than 48" please call.
 6. All weights are in pounds and approximated or estimated.
- * This size and thickness does not correspond to any pipe schedule number.
 ❖ In accordance with B16.9. Special Fittings paragraph 4.4.2.

FITTINGS

Pipe Size	LARGE DIAMETER			SMALL DIAMETER			Length L	Pipe Schedule Number	Approx. Weight in Pounds
	Outside Diameter	Inside Diameter	Wall Thickness	Outside Diameter	Inside Diameter	Wall Thickness			
	O.D.	I.D.	T	O.D.	I.D.	T			
¾ x ½	1.05	0.824	0.113	0.84	0.622	0.109	1.50	40	0.21
1 x ¾	1.32	1.054	0.133	1.05	0.824	0.113	2.00	40	0.36
1 x ½	1.32	1.054	0.133	0.84	0.622	0.109	2.00	40	0.36
1 ¼ x 1	1.66	1.380	0.140	1.32	1.054	0.133	2.00	40	0.48
1 ¼ x ¾	1.66	1.380	0.140	1.05	0.824	0.113	2.00	40	0.42
1 ¼ x ½	1.66	1.380	0.140	0.84	0.622	0.109	2.00	40	0.42
1 ½ x 1 ¼	1.90	1.610	0.145	1.66	1.380	0.140	2.50	40	0.65
1 ½ x 1	1.90	1.610	0.145	1.32	1.054	0.133	2.50	40	0.57
1 ½ x ¾	1.90	1.610	0.145	1.05	0.824	0.113	2.50	40	0.56
1 ½ x ½	1.90	1.610	0.145	0.84	0.622	0.109	2.50	40	0.56
2 x 1 ½	2.38	2.072	0.154	1.90	1.610	0.145	3.00	40	0.94
2 x 1 ¼	2.38	2.072	0.154	1.66	1.380	0.140	3.00	40	0.88
2 x 1	2.38	2.072	0.154	1.32	1.054	0.133	3.00	40	0.81
2 x ¾	2.38	2.072	0.154	1.05	0.824	0.113	3.00	40	0.74
2 ½ x 2	2.88	2.474	0.203	2.38	2.072	0.154	3.50	40	1.60
2 ½ x 1 ½	2.88	2.474	0.203	1.90	1.610	0.145	3.50	40	1.50
2 ½ x 1 ¼	2.88	2.474	0.203	1.66	1.380	0.140	3.50	40	1.40
2 ½ x 1	2.88	2.474	0.203	1.32	1.054	0.133	3.50	40	1.30
3 x 2 ½	3.50	3.068	0.216	2.88	2.474	0.203	3.50	40	2.20
3 x 2	3.50	3.068	0.216	2.38	2.072	0.154	3.50	40	2.00
3 x 1 ½	3.50	3.068	0.216	1.90	1.610	0.145	3.50	40	1.90
3 x 1 ¼	3.50	3.068	0.216	1.66	1.380	0.140	3.50	40	1.80
❖ 3 x 1	3.50	3.068	0.216	1.32	1.054	0.133	3.50	40	1.70
3 ½ x 3	4.00	3.548	0.226	3.50	3.068	0.216	4.00	40	2.80
3 ½ x 2 ½	4.00	3.548	0.226	2.88	2.474	0.203	4.00	40	2.70
3 ½ x 2	4.00	3.548	0.226	2.38	2.072	0.154	4.00	40	2.60
3 ½ x 1 ½	4.00	3.548	0.226	1.90	1.610	0.145	4.00	40	2.60
3 ½ x 1 ¼	4.00	3.548	0.226	1.66	1.380	0.140	4.00	40	2.50
4 x 3 ½	4.50	4.026	0.237	4.00	3.548	0.226	4.00	40	3.50
4 x 3	4.50	4.026	0.237	3.50	3.068	0.216	4.00	40	3.30
4 x 2 ½	4.50	4.026	0.237	2.88	2.474	0.203	4.00	40	3.20
4 x 2	4.50	4.026	0.237	2.38	2.072	0.154	4.00	40	3.10
4 x 1 ½	4.50	4.026	0.237	1.90	1.610	0.145	4.00	40	3.00

CONCENTRIC AND ECCENTRIC REDUCERS

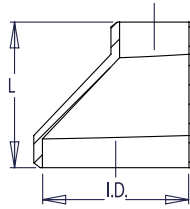
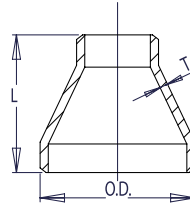
Pipe Size	LARGE DIAMETER			SMALL DIAMETER			Length	Pipe Schedule Number	Approx. Weight in Pounds
	Outside Diameter	Inside Diameter	Wall Thickness	Outside Diameter	Inside Diameter	Wall Thickness			
	O.D.	I.D.	T	O.D.	I.D.	T	L		
❖ 4 x 1 1/4	4.50	4.026	0.237	1.66	1.380	0.140	4.00	40	3.00
❖ 4 x 1	4.50	4.026	0.237	1.32	1.054	0.133	4.00	40	2.80
5 x 4	5.56	5.044	0.258	4.50	4.026	0.237	5.00	40	5.50
5 x 3 1/2	5.56	5.044	0.258	4.00	3.548	0.226	5.00	40	5.30
5 x 3	5.56	5.044	0.258	3.50	3.068	0.216	5.00	40	5.10
5 x 2 1/2	5.56	5.044	0.258	2.88	2.474	0.203	5.00	40	4.80
5 x 2	5.56	5.044	0.258	2.38	2.072	0.154	5.00	40	4.70
6 x 5	6.62	6.060	0.280	5.56	5.044	0.258	5.50	40	7.60
6 x 4	6.62	6.060	0.280	4.50	4.026	0.237	5.50	40	7.40
6 x 3 1/2	6.62	6.060	0.280	4.00	3.548	0.226	5.50	40	7.10
6 x 3	6.62	6.060	0.280	3.50	3.068	0.216	5.50	40	6.90
6 x 2 1/2	6.62	6.060	0.280	2.88	2.474	0.203	5.50	40	6.60
❖ 6 x 2	6.62	6.060	0.280	2.38	2.072	0.154	5.50	40	6.50
8 x 6	8.62	7.976	0.322	6.62	6.060	0.280	6.00	40	12.30
8 x 5	8.62	7.976	0.322	5.56	5.044	0.258	6.00	40	11.50
8 x 4	8.62	7.976	0.322	4.50	4.026	0.237	6.00	40	10.80
8 x 3 1/2	8.62	7.976	0.322	4.00	3.548	0.226	6.00	40	10.60
❖ 8 x 3	8.62	7.976	0.322	3.50	3.068	0.216	6.00	40	9.80
10 x 8	10.75	10.020	0.365	8.62	7.976	0.322	7.00	40	22.10
10 x 6	10.75	10.020	0.365	6.62	6.060	0.280	7.00	40	20.70
10 x 5	10.75	10.020	0.365	5.56	5.044	0.258	7.00	40	19.50
10 x 4	10.75	10.020	0.365	4.50	4.026	0.237	7.00	40	18.40
12 x 10	12.75	12.000	0.375	10.75	10.020	0.365	8.00	*	32.40
12 x 8	12.75	12.000	0.375	8.62	7.976	0.322	8.00	*	30.50
12 x 6	12.75	12.000	0.375	6.62	6.060	0.280	8.00	*	29.50
12 x 5	12.75	12.000	0.375	5.56	5.044	0.258	8.00	*	27.80
❖ 12 x 4	12.75	12.000	0.375	4.50	4.026	0.237	8.00	*	26.20
14 x 12	14.00	13.250	0.375	12.75	12.000	0.375	13.00	*	63.10
14 x 10	14.00	13.250	0.375	10.75	10.020	0.365	13.00	*	61.40
14 x 8	14.00	13.250	0.375	8.62	7.976	0.322	13.00	*	60.00
14 x 6	14.00	13.250	0.375	6.62	6.060	0.280	13.00	*	59.20
16 x 14	16.00	15.250	0.375	14.00	13.250	0.375	14.00	*	75.40
16 x 12	16.00	15.250	0.375	12.75	12.000	0.375	14.00	*	72.70
16 x 10	16.00	15.250	0.375	10.75	10.020	0.365	14.00	*	71.10
16 x 8	16.00	15.250	0.375	8.62	7.976	0.322	14.00	*	69.40
❖ 16 x 6	16.00	15.250	0.375	6.62	6.060	0.280	14.00	*	67.40
18 x 16	18.00	17.250	0.375	16.00	15.250	0.375	15.00	*	87.30
18 x 14	18.00	17.250	0.375	14.00	13.250	0.375	15.00	*	86.00
18 x 12	18.00	17.250	0.375	12.75	12.000	0.375	15.00	*	84.80
18 x 10	18.00	17.250	0.375	10.75	10.020	0.365	15.00	*	83.70
❖ 18 x 8	18.00	17.250	0.375	8.62	7.976	0.322	15.00	*	81.75
20 x 18	20.00	19.250	0.375	18.00	17.250	0.375	20.00	*	123.00
20 x 16	20.00	19.250	0.375	16.00	15.250	0.375	20.00	*	121.00
20 x 14	20.00	19.250	0.375	14.00	13.250	0.375	20.00	*	119.00

FITTINGS

CONCENTRIC AND ECCENTRIC REDUCERS



SCHEDULE XXS



WELDBEND NOTES

1. Conforms to ASME B16.9 & ASTM A234 WPB.
 2. All dimensions are in inches.
 3. For bevel detail see page 107.
 4. For dimensional tolerances see page 108.
 5. All weights are in pounds and approximated or estimated.
- * This size and thickness does not correspond to any pipe schedule number.
 ❖ In accordance with B16.9. Special Fittings paragraph 4.4.2.

FITTINGS

Pipe Size	LARGE DIAMETER			SMALL DIAMETER			Length L	Pipe Schedule Number	Approx. Weight in Pounds
	Outside Diameter	Inside Diameter	Wall Thickness	Outside Diameter	Inside Diameter	Wall Thickness			
	O.D.	I.D.	T	O.D.	I.D.	T			
3/4 x 1/2	1.05	0.434	0.308	0.84	0.252	0.294	1.50	*	0.39
1 x 3/4	1.32	0.604	0.358	1.05	0.434	0.308	2.00	*	0.50
1 x 1/2	1.32	0.604	0.358	0.84	0.252	0.294	2.00	*	0.50
1 1/4 x 1	1.66	0.896	0.382	1.32	0.604	0.358	2.00	*	0.75
1 1/4 x 3/4	1.66	0.896	0.382	1.05	0.434	0.308	2.00	*	0.75
1 1/4 x 1/2	1.66	0.896	0.382	0.84	0.252	0.294	2.00	*	0.75
1 1/2 x 1 1/4	1.90	1.100	0.400	1.66	0.896	0.382	2.50	*	1.00
1 1/2 x 1	1.90	1.100	0.400	1.32	0.604	0.358	2.50	*	1.00
1 1/2 x 3/4	1.90	1.100	0.400	1.05	0.434	0.308	2.50	*	1.00
1 1/2 x 1/2	1.90	1.100	0.400	0.84	0.252	0.294	2.50	*	1.00
2 x 1 1/2	2.38	1.508	0.436	1.90	1.100	0.400	3.00	*	2.00
2 x 1 1/4	2.38	1.508	0.436	1.66	0.896	0.382	3.00	*	2.00
2 x 1	2.38	1.508	0.436	1.32	0.604	0.358	3.00	*	2.00
2 x 3/4	2.38	1.508	0.436	1.05	0.434	0.308	3.00	*	1.75
2 1/2 x 2	2.88	1.776	0.552	2.38	1.508	0.436	3.50	*	4.00
2 1/2 x 1 1/2	2.88	1.776	0.552	1.90	1.100	0.400	3.50	*	4.00
2 1/2 x 1 1/4	2.88	1.776	0.552	1.66	0.896	0.382	3.50	*	3.50
2 1/2 x 1	2.88	1.776	0.552	1.32	0.604	0.358	3.50	*	3.50
3 x 2 1/2	3.50	2.300	0.600	2.88	1.776	0.552	3.50	*	5.00
3 x 2	3.50	2.300	0.600	2.38	1.508	0.436	3.50	*	5.00
3 x 1 1/2	3.50	2.300	0.600	1.90	1.100	0.400	3.50	*	5.00
3 x 1 1/4	3.50	2.300	0.600	1.66	0.896	0.382	3.50	*	4.50
❖ 3 x 1	3.50	2.300	0.600	1.32	0.604	0.358	3.50	*	4.50
4 x 3	4.50	3.152	0.674	3.50	2.300	0.600	4.00	*	8.00
4 x 2 1/2	4.50	3.152	0.674	2.88	1.776	0.552	4.00	*	8.00
4 x 2	4.50	3.152	0.674	2.38	1.508	0.436	4.00	*	7.50
4 x 1 1/2	4.50	3.152	0.674	1.90	1.100	0.400	4.00	*	7.50
❖ 4 x 1 1/4	4.50	3.152	0.674	1.66	0.896	0.382	4.00	*	7.50
❖ 4 x 1	4.50	3.152	0.674	1.32	0.604	0.358	4.00	*	7.00

CONCENTRIC AND ECCENTRIC REDUCERS

Pipe Size	LARGE DIAMETER			SMALL DIAMETER			Length	Pipe Schedule Number	Approx. Weight in Pounds
	Outside Diameter	Inside Diameter	Wall Thickness	Outside Diameter	Inside Diameter	Wall Thickness			
	O.D.	I.D.	T	O.D.	I.D.	T	L		
5 x 4	5.56	4.060	0.750	4.50	3.152	0.674	5.00	*	16.00
5 x 3	5.56	4.060	0.750	3.50	2.300	0.600	5.00	*	16.00
5 x 2 ½	5.56	4.060	0.750	2.88	1.776	0.552	5.00	*	16.00
5 x 2	5.56	4.060	0.750	2.38	1.508	0.436	5.00	*	16.00
6 x 5	6.62	4.892	0.864	5.56	4.060	0.750	5.50	*	23.00
6 x 4	6.62	4.892	0.864	4.50	3.152	0.674	5.50	*	23.00
6 x 3	6.62	4.892	0.864	3.50	2.300	0.600	5.50	*	20.00
6 x 2 ½	6.62	4.892	0.864	2.88	1.776	0.552	5.50	*	20.00
❖ 6 x 2	6.62	4.892	0.864	2.38	1.508	0.436	5.50	*	19.00
8 x 6	8.62	6.870	0.875	6.62	4.892	0.864	6.00	*	36.00
8 x 5	8.62	6.870	0.875	5.56	4.060	0.750	6.00	*	33.00
8 x 4	8.62	6.870	0.875	4.50	3.152	0.674	6.00	*	33.00
❖ 8 x 3	8.62	6.870	0.875	3.50	2.300	0.600	6.00	*	33.00
10 x 8	10.75	8.750	1.000	8.62	6.870	0.875	7.00	*	48.00
10 x 6	10.75	8.750	1.000	6.62	4.892	0.864	7.00	*	58.00
10 x 5	10.75	8.750	1.000	5.56	4.060	0.750	7.00	*	54.00
10 x 4	10.75	8.750	1.000	4.50	3.152	0.674	7.00	*	52.00
12 x 10	12.75	10.750	1.000	10.75	8.750	1.000	8.00	*	95.00
12 x 8	12.75	10.750	1.000	8.62	6.870	0.875	8.00	*	85.00
12 x 6	12.75	10.750	1.000	6.62	4.892	0.864	8.00	*	80.00
12 x 5	12.75	10.750	1.000	5.56	4.060	0.750	8.00	*	80.00
❖ 12 x 4	12.75	10.750	1.000	4.50	3.152	0.674	8.00	*	80.00