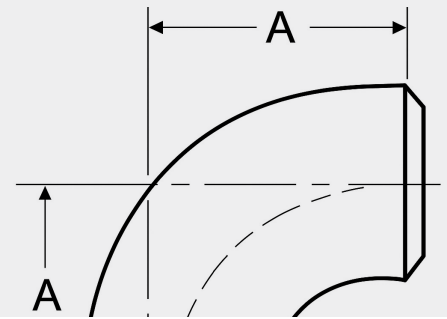




CARBON STEEL BUTT WELD FITTINGS



- Carbon Steel Butt Weld Fittings are specified to ASTM/ASME A/SA 234 WPB and ANSI B16.9 and B16.28
- Available in Standard and Extra Heavy
- Fittings include 90° and 45° elbows, straight and reducing tees, concentric and eccentric reducers, weld caps and 180° return bends

Weld Fitting Part Numbering System

WB **LT** **0012**

Product
Group

Fitting
Type

Size

Product Group / Weight:

WB Standard Weight Butt Weld Fitting
WX Extra Heavy Butt Weld Fitting

Fitting Type:

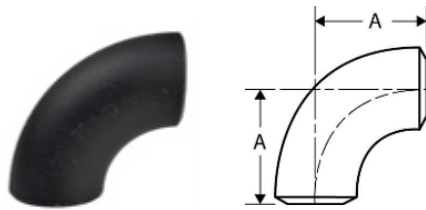
LT Long Radius 90° Elbow
LN Short Radius 90° Elbow
FF 45° Elbow
LRB Long Radius 180° Return Bend
SRB Short Radius 180° Return Bend
CP Cap
TE Tee
CR Concentric Reducer
EC Eccentric Reducer
RT Reducing Tee



Long Radius 90 Elbow

Standard Weight

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

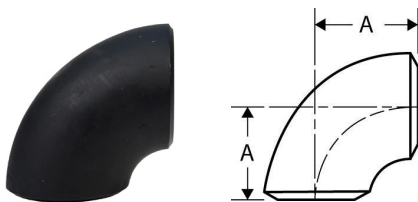


Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	A	Pipe Sch	Weight (lbs)
WBLT0012	½"	0.84	0.622	0.109	1.50	STD/40	0.16
WBLT0034	¾"	1.05	0.824	0.113	1.50	STD/40	0.17
WBLT0100	1"	1.32	1.049	0.133	1.50	STD/40	0.40
WBLT0114	1 ¼"	1.66	1.380	0.140	1.88	STD/40	0.55
WBLT0112	1 ½"	1.90	1.610	0.145	2.25	STD/40	0.80
WBLT0200	2"	2.37	2.067	0.154	3.00	STD/40	1.6
WBLT0212	2 ½"	2.88	2.469	0.203	3.75	STD/40	3.2
WBLT0300	3"	3.50	3.068	0.216	4.50	STD/40	4.8
WBLT0400	4"	4.50	4.026	0.237	6.00	STD/40	8.9
WBLT0500	5"	5.56	5.047	0.258	7.50	STD/40	15.1
WBLT0600	6"	6.63	6.065	0.280	9.00	STD/40	24
WBLT0800	8"	8.63	7.981	0.322	12.00	STD/40	47.8
WBLT01000	10"	10.75	10.020	0.365	15.00	STD/40	83.4
WBLT01200	12"	12.75	12.000	0.375	18.00	STD*	123
WBLT01400	14"	14.00	13.250	0.375	21.00	STD/30	155
WBLT01600	16"	16.00	15.250	0.375	24.00	STD/30	206
WBLT01800	18"	18.00	17.250	0.375	27.00	STD*	262
WBLT02000	20"	20.00	19.250	0.375	30.00	STD/20	324
WBLT02400	24"	24.00	23.250	0.375	36.00	STD/20	466

Short Radius 90 Elbow

Standard Weight

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



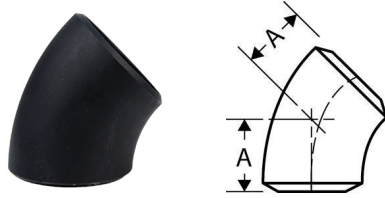
Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	A	Pipe Sch	Weight (lbs)
WBLN0100	1"	1.32	1.05	0.133	1.00	STD/40	0.25
WBLN0114	1 ¼"	1.66	1.38	0.140	1.25	STD/40	0.39
WBLN0112	1 ½"	1.90	1.61	0.145	1.50	STD/40	0.53
WBLN0200	2"	2.38	2.07	0.154	2.00	STD/40	0.97
WBLN0212	2 ½"	2.88	2.47	0.203	2.50	STD/40	2
WBLN0300	3"	3.50	3.07	0.216	3.00	STD/40	3
WBLN0400	4"	4.50	4.03	0.237	4.00	STD/40	6.1
WBLN0500	5"	5.56	5.05	0.258	5.00	STD/40	9.7
WBLN0600	6"	6.63	6.07	0.280	6.00	STD/40	16.7
WBLN0800	8"	8.63	7.98	0.322	8.00	STD/40	32.4
WBLN01000	10"	10.75	10.02	0.365	10.00	STD/40	56.3
WBLN01200	12"	12.75	12.00	0.375	12.00	STD*	79.4
WBLN01400	14"	14.00	13.25	0.375	14.00	STD/30	104
WBLN01600	16"	16.00	15.25	0.375	16.00	STD/30	129
WBLN01800	18"	18.00	17.25	0.375	18.00	STD*	163
WBLN02000	20"	20.00	19.25	0.375	20.00	STD/20	210
WBLN02400	24"	24.00	23.25	0.375	24.00	STD/20	297

* STD* designates Standard Weight (standard wall). This size and thickness do not correspond to any pipe schedule number.

45 Elbow

Standard Weight

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	A	Pipe Sch	Weight (lbs)
WBFF0012	½"	0.84	0.622	0.109	0.62	STD/40	0.09
WBFF0034	¾"	1.05	0.824	0.113	0.75	STD/40	0.10
WBFF0100	1"	1.32	1.05	0.133	0.88	STD/40	0.22
WBFF0114	1 ¼"	1.66	1.38	0.140	1.00	STD/40	0.33
WBFF0112	1 ½"	1.90	1.61	0.145	1.12	STD/40	0.43
WBFF0200	2"	2.38	2.07	0.154	1.38	STD/40	0.85
WBFF0212	2 ½"	2.88	2.47	0.203	1.75	STD/40	1.7
WBFF0300	3"	3.50	3.07	0.216	2.00	STD/40	2.5
WBFF0400	4"	4.50	4.03	0.237	2.50	STD/40	4.5
WBFF0500	5"	5.56	5.05	0.258	3.12	STD/40	7.5
WBFF0600	6"	6.62	6.06	0.280	3.75	STD/40	11.7
WBFF0800	8"	8.62	7.98	0.322	5.00	STD/40	23.3
WBFF01000	10"	10.75	10.02	0.365	6.25	STD/40	40.9
WBFF01200	12"	12.75	12.00	0.375	7.50	STD*	61.4
WBFF01400	14"	14.00	13.25	0.375	8.75	STD/30	78.1
WBFF01600	16"	16.00	15.25	0.375	10.00	STD/30	101
WBFF01800	18"	18.00	17.25	0.375	11.25	STD*	128
WBFF02000	20"	20.00	19.25	0.375	12.50	STD/20	159
WBFF02400	24"	24.00	23.25	0.375	15.00	STD/20	231

Long Radius 180 Return Bend

Standard Weight

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



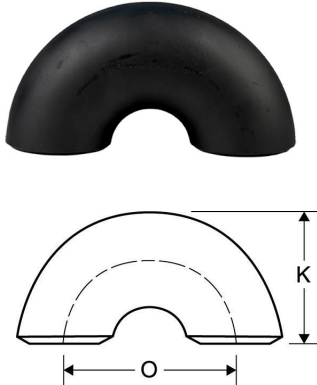
Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	Center to Center (O)	Back to Face (K)	Pipe Sch	Weight (lbs)
WBLRB0100	1"	1.32	1.049	0.133	3.00	2.19	STD/40	0.74
WBLRB0114	1 ¼"	1.66	1.380	0.140	3.75	2.75	STD/40	1.1
WBLRB0112	1 ½"	1.90	1.610	0.145	4.50	3.25	STD/40	1.6
WBLRB0200	2"	2.38	2.067	0.154	6.00	4.19	STD/40	3.2
WBLRB0212	2 ½"	2.88	2.469	0.203	7.50	5.19	STD/40	6.1
WBLRB0300	3"	3.50	3.068	0.216	9.00	6.25	STD/40	9.4
WBLRB0400	4"	4.50	4.026	0.237	12.00	8.25	STD/40	17.5
WBLRB0500	5"	5.56	5.047	0.258	15.00	10.31	STD/40	29.3
WBLRB0600	6"	6.62	6.065	0.280	18.00	12.31	STD/40	47

* STD* designates Standard Weight (standard wall). This size and thickness do not correspond to any pipe schedule number.

Short Radius 180 Return Bend

Standard Weight

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

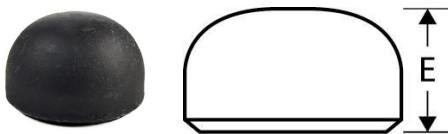


Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	Center to Center (O)	Back to Face (K)	Pipe Sch	Weight (lbs)
WBSRB0100	1"	1.32	1.05	0.133	2.00	1.62	STD/40	0.50
WBSRB0114	1 ¼"	1.66	1.38	0.140	2.50	2.06	STD/40	0.80
WBSRB0112	1 ½"	1.90	1.61	0.145	3.00	2.44	STD/40	1.1
WBSRB0200	2"	2.38	2.07	0.154	4.00	3.19	STD/40	1.9
WBSRB0212	2 ½"	2.88	2.47	0.203	5.00	3.94	STD/40	4
WBSRB0300	3"	3.50	3.07	0.216	6.00	4.75	STD/40	6
WBSRB0400	4"	4.50	4.03	0.237	8.00	6.25	STD/40	12.2
WBSRB0500	5"	5.56	5.05	0.258	10.00	7.75	STD/40	19.2
WBSRB0600	6"	6.62	6.07	0.280	12.00	9.31	STD/40	32.9

Caps

Standard Weight

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



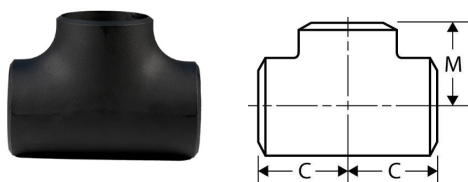
Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	E	Pipe Sch	Weight (lbs)
WBCP0012	½"	0.84	0.622	0.109	1.00	STD/40	0.08
WBCP0034	¾"	1.05	0.824	0.113	1.25	STD/40	0.14
WBCP0100	1"	1.32	1.049	0.133	1.50	STD/40	0.21
WBCP0114	1 ¼"	1.66	1.380	0.140	1.50	STD/40	0.33
WBCP0112	1 ½"	1.90	1.610	0.145	1.50	STD/40	0.54
WBCP0200	2"	2.38	2.067	0.154	1.50	STD/40	0.8
WBCP0212	2 ½"	2.88	2.469	0.203	1.50	STD/40	1
WBCP0300	3"	3.50	3.068	0.216	2.00	STD/40	1.7
WBCP0400	4"	4.50	4.026	0.237	2.50	STD/40	2.8
WBCP0500	5"	5.56	5.047	0.258	3.00	STD/40	4.6
WBCP0600	6"	6.62	6.065	0.280	3.50	STD/40	6.9
WBCP0800	8"	8.62	7.981	0.322	4.00	STD/40	11.8
WBCP01000	10"	10.75	10.020	0.365	5.00	STD/40	20.8
WBCP01200	12"	12.75	12.000	0.375	6.00	STD*	30.3
WBCP01400	14"	14.00	13.250	0.375	6.50	STD/30	36.5
WBCP01600	16"	16.00	15.250	0.375	7.00	STD/30	43.5
WBCP01800	18"	18.00	17.250	0.375	8.00	STD*	57
WBCP02000	20"	20.00	19.250	0.375	9.00	STD/20	75.7
WBCP02400	24"	24.00	23.250	0.375	10.50	STD/20	101

* STD* designates Standard Weight (standard wall). This size and thickness do not correspond to any pipe schedule number.

Straight Tee

Standard Weight

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

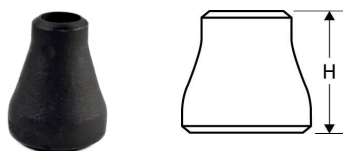


Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	Center to End (C)	Center to End (M)	Pipe Sch	Weight (lbs)
WBTE0012	½"	0.84	0.622	0.109	1.00	1.00	STD/40	0.35
WBTE0034	¾"	1.05	0.824	0.113	1.12	1.12	STD/40	0.50
WBTE0100	1"	1.32	1.049	0.133	1.50	1.50	STD/40	0.75
WBTE0114	1 ¼"	1.66	1.380	0.140	1.88	1.88	STD/40	1.3
WBTE0112	1 ½"	1.90	1.610	0.145	2.25	2.25	STD/40	1.9
WBTE0200	2"	2.38	2.067	0.154	2.50	2.50	STD/40	3.2
WBTE0212	2 ½"	2.88	2.469	0.203	3.00	3.00	STD/40	5.8
WBTE0300	3"	3.50	3.068	0.216	3.38	3.38	STD/40	7.2
WBTE0400	4"	4.50	4.026	0.237	4.12	4.12	STD/40	12.7
WBTE0500	5"	5.56	5.047	0.258	4.88	4.88	STD/40	20.8
WBTE0600	6"	6.62	6.065	0.280	5.62	5.62	STD/40	33.1
WBTE0800	8"	8.62	7.981	0.322	7.00	7.00	STD/40	56.5
WBTE01000	10"	10.75	10.020	0.365	8.50	8.50	STD/40	90.9
WBTE01200	12"	12.75	12.000	0.375	10.00	10.00	STD*	136
WBTE01400	14"	14.00	13.250	0.375	11.00	11.00	STD/30	162
WBTE01600	16"	16.00	15.250	0.375	12.00	12.00	STD/30	206
WBTE01800	18"	18.00	17.250	0.375	13.50	13.50	STD*	272
WBTE02000	20"	20.00	19.250	0.375	15.00	15.00	STD/20	350
WBTE02400	24"	24.00	23.250	0.375	17.00	17.00	STD/20	508

Concentric Reducer

Standard Weight

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



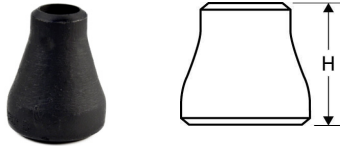
Part #	Size	H	Large End			Small End			Weight (lbs)
			Outside Dia.	Inside Dia.	Wall Thickness	Outside Dia.	Inside Dia.	Wall Thickness	
WBCR3401	¾" x ½"	1	1.030	0.804	0.113	0.840	0.622	0.109	0.21
WBCR1001	1" x ½"	2	1.315	1.049	0.133	0.840	0.622	0.109	0.36
WBCR1002	1" x ¾"	2	1.315	1.049	0.133	1.030	0.804	0.113	0.36
WBCR1141	1 ¼" x ½"	2	1.660	1.380	0.140	0.840	0.622	0.109	0.42
WBCR1142	1 ¼" x ¾"	2	1.660	1.380	0.140	1.030	0.804	0.113	0.42
WBCR1143	1 ¼" x 1"	2	1.660	1.380	0.140	1.315	1.049	0.133	0.48
WBCR1121	1 ½" x ½"	2.5	1.900	1.610	0.145	0.840	0.622	0.109	0.56
WBCR1122	1 ½" x ¾"	2.5	1.900	1.610	0.145	1.030	0.804	0.113	0.56
WBCR1123	1 ½" x 1"	2.5	1.900	1.610	0.145	1.315	1.049	0.133	0.57
WBCR1124	1 ½" x 1 ¼"	2.5	1.900	1.610	0.145	1.660	1.380	0.140	0.65
WBCR2001	2" x ½"	3.0	2.375	2.067	0.154	0.840	0.622	0.109	0.69
WBCR2002	2" x ¾"	3	2.375	2.067	0.154	1.030	0.804	0.113	0.74
WBCR2003	2" x 1"	3	2.375	2.067	0.154	1.315	1.049	0.133	0.81
WBCR2004	2" x 1 ¼"	3	2.375	2.067	0.154	1.660	1.380	0.140	0.88
WBCR2005	2" x 1 ½"	3	2.375	2.067	0.154	1.900	1.610	0.145	0.94
WBCR2121	2 ½" x ¾"	3.5	2.875	2.469	0.203	1.030	0.804	0.113	1.2
WBCR2122	2 ½" x 1"	3.5	2.875	2.469	0.203	1.315	1.049	0.133	1.3
WBCR2123	2 ½" x 1 ¼"	3.5	2.875	2.469	0.203	1.660	1.380	0.140	1.4
WBCR2124	2 ½" x 1 ½"	3.5	2.875	2.469	0.203	1.900	1.610	0.145	1.5

* STD* designates Standard Weight (standard wall). This size and thickness do not correspond to any pipe schedule number.

Concentric Reducer

Standard Weight (Continued)

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

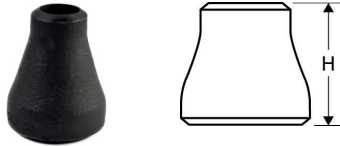


Part #	Size	H	Large End			Small End			Weight (lbs)
			Outside Dia.	Inside Dia.	Wall Thickness	Outside Dia.	Inside Dia.	Wall Thickness	
WBCR2125	2 1/2" x 2"	3.5	2.875	2.469	0.203	2.375	2.067	0.154	1.6
WBCR3001	3" x 1"	3.5	3.500	3.068	0.216	1.315	1.049	0.133	1.7
WBCR3002	3" x 1 1/4"	3.5	3.500	3.068	0.216	1.660	1.380	0.140	1.8
WBCR3003	3" x 1 1/2"	3.5	3.500	3.068	0.216	1.900	1.610	0.145	1.9
WBCR3004	3" x 2"	3.5	3.500	3.068	0.216	2.375	2.067	0.154	2.0
WBCR3005	3" x 2 1/2"	3.5	3.500	3.068	0.216	2.875	2.469	0.203	2.2
WBCR4001	4" x 1"	4	4.500	4.026	0.237	1.315	1.049	0.133	2.8
WBCR4002	4" x 1 1/4"	4	4.500	4.026	0.237	1.660	1.380	0.140	3
WBCR4003	4" x 1 1/2"	4	4.500	4.026	0.237	1.900	1.610	0.145	3
WBCR4004	4" x 2"	4	4.500	4.026	0.237	2.375	2.067	0.154	3.1
WBCR4005	4" x 2 1/2"	4	4.500	4.026	0.237	2.875	2.469	0.203	3.2
WBCR4006	4" x 3"	4	4.500	4.026	0.237	3.500	3.068	0.216	3.3
WBCR5001	5" x 2"	5	5.562	5.046	0.258	2.375	2.067	0.154	4.7
WBCR5002	5" x 2 1/2"	5	5.562	5.046	0.258	2.875	2.469	0.203	4.8
WBCR5003	5" x 3"	5	5.562	5.046	0.258	3.500	3.068	0.216	5.1
WBCR5004	5" x 4"	5	5.562	5.046	0.258	4.500	4.026	0.237	5.5
WBCR6001	6" x 2"	5.5	6.625	6.065	0.280	2.375	2.067	0.154	6.5
WBCR6002	6" x 2 1/2"	5.5	6.625	6.065	0.280	2.875	2.469	0.203	6.6
WBCR6003	6" x 3"	5.5	6.625	6.065	0.280	3.500	3.068	0.216	6.9
WBCR6004	6" x 4"	5.5	6.625	6.065	0.280	4.500	4.026	0.237	7.4
WBCR6005	6" x 5"	5.5	6.625	6.065	0.280	5.562	5.046	0.258	7.6
WBCR8001	8" x 3"	6	8.625	7.981	0.322	3.500	3.068	0.216	9.8
WBCR8002	8" x 4"	6	8.625	7.981	0.322	4.500	4.026	0.237	10.8
WBCR8003	8" x 5"	6	8.625	7.981	0.322	5.562	5.046	0.258	11.5
WBCR8004	8" x 6"	6	8.625	7.981	0.322	6.625	6.065	0.280	12.3
WBCR01010	10" x 4"	7	10.750	10.020	0.365	4.500	4.026	0.237	18.4
WBCR01020	10" x 5"	7	10.750	10.020	0.365	5.562	5.046	0.258	19.5
WBCR01030	10" x 6"	7	10.750	10.020	0.365	6.625	6.065	0.280	20.7
WBCR01040	10" x 8"	7	10.750	10.020	0.365	8.625	7.981	0.322	22.1
WBCR01210	12" x 4"	8	12.750	12.000	0.375	4.500	4.026	0.237	26.2
WBCR01220	12" x 5"	8	12.750	12.000	0.375	5.562	5.046	0.258	27.8
WBCR01230	12" x 6"	8	12.750	12.000	0.375	6.625	6.065	0.280	29.5
WBCR01240	12" x 8"	8	12.750	12.000	0.375	8.625	7.981	0.322	30.5
WBCR01250	12" x 10"	8	12.750	12.000	0.375	10.750	10.020	0.365	32.4
WBCR01410	14" x 6"	13	14.000	13.250	0.375	6.625	6.065	0.280	59.2
WBCR01420	14" x 8"	13	14.000	13.250	0.375	8.625	7.981	0.322	60.0
WBCR01430	14" x 10"	13	14.000	13.250	0.375	10.750	10.020	0.365	61.4
WBCR01440	14" x 12"	13	14.000	13.250	0.375	12.750	12.000	0.375	63.1

Concentric Reducer

Standard Weight (Continued)

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



Part #	Size	H	Large End			Small End			Weight (lbs)
			Outside Dia.	Inside Dia.	Wall Thickness	Outside Dia.	Inside Dia.	Wall Thickness	
WBCR01610	16" x 6"	14	16	15.25	0.375	6.625	6.065	0.28	67.4
WBCR01620	16" x 8"	14	16.000	15.250	0.375	8.625	7.981	0.322	69
WBCR01630	16" x 10"	14	16.000	15.250	0.375	10.750	10.020	0.365	71
WBCR01640	16" x 12"	14	16.000	15.250	0.375	12.750	12.000	0.375	72.7
WBCR01650	16" x 14"	14	16.000	15.250	0.375	14.000	13.250	0.375	75.4
WBCR01810	18" x 8"	15	18.000	17.250	0.375	8.625	7.981	0.322	82.1
WBCR01820	18" x 10"	15	18.000	17.250	0.375	10.750	10.020	0.365	83.7
WBCR01830	18" x 12"	15	18.000	17.250	0.375	12.750	12.000	0.375	84.8
WBCR01840	18" x 14"	15	18.000	17.250	0.375	14.000	13.250	0.375	86.0
WBCR01850	18" x 16"	15	18.000	17.250	0.375	16.000	15.250	0.375	87.3
WBCR02010	20" x 12"	20	20.000	19.250	0.375	12.750	12.000	0.375	118.0
WBCR02020	20" x 14"	20	20.000	19.250	0.375	14.000	13.250	0.375	119.0
WBCR02030	20" x 16"	20	20.000	19.250	0.375	16.000	15.250	0.375	121.0
WBCR02040	20" x 18"	20	20.000	19.250	0.375	18.000	17.250	0.375	123.0
WBCR02410	24" x 10"	20	24.000	23.250	0.375	10.750	10.020	0.375	141.0
WBCR02420	24" x 12"	20	24.000	23.250	0.375	12.750	12.000	0.375	144.0
WBCR02430	24" x 14"	20	24.000	23.250	0.375	14.000	13.250	0.375	147.0
WBCR02440	24" x 16"	20	24.000	23.250	0.375	16.000	15.250	0.375	150.0
WBCR02450	24" x 18"	20	24.000	23.250	0.375	18.000	17.250	0.375	153.0
WBCR02460	24" x 20"	20	24.000	23.250	0.375	20.000	19.250	0.375	156.0

Eccentric Reducer

Standard Weight

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



Part #	Size	H	Large End			Small End			Weight (lbs)
			Outside Dia.	Inside Dia.	Wall Thickness	Outside Dia.	Inside Dia.	Wall Thickness	
WBEC3401	¾" x ½"	1	1.030	0.804	0.113	0.840	0.622	0.109	0.21
WBEC1001	1" x ½"	2	1.315	1.049	0.133	0.840	0.622	0.109	0.36
WBEC1002	1" x ¾"	2	1.315	1.049	0.133	1.030	0.804	0.113	0.36
WBEC1141	1 ¼" x ½"	2	1.660	1.380	0.140	0.840	0.622	0.109	0.42
WBEC1142	1 ¼" x ¾"	2	1.660	1.380	0.140	1.030	0.804	0.113	0.42
WBEC1143	1 ¼" x 1"	2	1.660	1.380	0.140	1.315	1.049	0.133	0.48
WBEC1121	1 ½" x ½"	2.5	1.900	1.610	0.145	0.840	0.622	0.109	0.56
WBEC1122	1 ½" x ¾"	2.5	1.900	1.610	0.145	1.030	0.804	0.113	0.56
WBEC1123	1 ½" x 1"	2.5	1.900	1.610	0.145	1.315	1.049	0.133	0.57
WBEC1124	1 ½" x 1 ¼"	2.5	1.900	1.610	0.145	1.660	1.380	0.140	0.65
WBEC2001	2" x ½"	3.0	2.375	2.067	0.154	0.840	0.622	0.109	0.69
WBEC2002	2" x ¾"	3	2.375	2.067	0.154	1.030	0.804	0.113	0.74
WBEC2003	2" x 1"	3	2.375	2.067	0.154	1.315	1.049	0.133	0.81
WBEC2004	2" x 1 ¼"	3	2.375	2.067	0.154	1.660	1.380	0.140	0.88
WBEC2005	2" x 1 ½"	3	2.375	2.067	0.154	1.900	1.610	0.145	0.94
WBEC2121	2 ½" x ¾"	3.5	2.875	2.469	0.203	1.030	0.804	0.113	1.2
WBEC2122	2 ½" x 1"	3.5	2.875	2.469	0.203	1.315	1.049	0.133	1.3

Eccentric Reducer

Standard Weight (Continued)

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



Part #	Size	H	Large End			Small End			Weight (lbs)
			Outside Dia.	Inside Dia.	Wall Thickness	Outside Dia.	Inside Dia.	Wall Thickness	
WBEC2123	2 1/2" x 1 1/4"	3.5	2.875	2.469	0.203	1.660	1.380	0.140	1.4
WBEC2124	2 1/2" x 1 1/2"	3.5	2.875	2.469	0.203	1.900	1.610	0.145	1.5
WBEC2125	2 1/2" x 2"	3.5	2.875	2.469	0.203	2.375	2.067	0.154	1.6
WBEC3001	3" x 1"	3.5	3.500	3.068	0.216	1.315	1.049	0.133	1.7
WBEC3002	3" x 1 1/4"	3.5	3.500	3.068	0.216	1.660	1.380	0.140	1.8
WBEC3003	3" x 1 1/2"	3.5	3.500	3.068	0.216	1.900	1.610	0.145	1.9
WBEC3004	3" x 2"	3.5	3.500	3.068	0.216	2.375	2.067	0.154	2.0
WBEC3005	3" x 2 1/2"	3.5	3.500	3.068	0.216	2.875	2.469	0.203	2.2
WBEC4001	4" x 1"	4	4.500	4.026	0.237	1.315	1.049	0.133	2.8
WBEC4002	4" x 1 1/4"	4	4.500	4.026	0.237	1.660	1.380	0.140	3
WBEC4003	4" x 1 1/2"	4	4.500	4.026	0.237	1.900	1.610	0.145	3
WBEC4004	4" x 2"	4	4.500	4.026	0.237	2.375	2.067	0.154	3.1
WBEC4005	4" x 2 1/2"	4	4.500	4.026	0.237	2.875	2.469	0.203	3.2
WBEC4006	4" x 3"	4	4.500	4.026	0.237	3.500	3.068	0.216	3.3
WBEC5001	5" x 2"	5	5.562	5.046	0.258	2.375	2.067	0.154	4.7
WBEC5002	5" x 2 1/2"	5	5.562	5.046	0.258	2.875	2.469	0.203	4.8
WBEC5003	5" x 3"	5	5.562	5.046	0.258	3.500	3.068	0.216	5.1
WBEC5004	5" x 4"	5	5.562	5.046	0.258	4.500	4.026	0.237	5.5
WBEC6001	6" x 2"	5.5	6.625	6.065	0.280	2.375	2.067	0.154	6.5
WBEC6002	6" x 2 1/2"	5.5	6.625	6.065	0.280	2.875	2.469	0.203	6.6
WBEC6003	6" x 3"	5.5	6.625	6.065	0.280	3.500	3.068	0.216	6.9
WBEC6004	6" x 4"	5.5	6.625	6.065	0.280	4.500	4.026	0.237	7.4
WBEC6005	6" x 5"	5.5	6.625	6.065	0.280	5.562	5.046	0.258	7.6
WBEC8001	8" x 3"	6	8.625	7.981	0.322	3.500	3.068	0.216	9.8
WBEC8002	8" x 4"	6	8.625	7.981	0.322	4.500	4.026	0.237	10.8
WBEC8003	8" x 5"	6	8.625	7.981	0.322	5.562	5.046	0.258	11.5
WBEC8004	8" x 6"	6	8.625	7.981	0.322	6.625	6.065	0.280	12.3
WBEC01010	10" x 4"	7	10.750	10.020	0.365	4.500	4.026	0.237	18.4
WBEC01020	10" x 5"	7	10.750	10.020	0.365	5.562	5.046	0.258	19.5
WBEC01030	10" x 6"	7	10.750	10.020	0.365	6.625	6.065	0.280	20.7
WBEC01040	10" x 8"	7	10.750	10.020	0.365	8.625	7.981	0.322	22.1
WBEC01210	12" x 4"	8	12.750	12.000	0.375	4.500	4.026	0.237	26.2
WBEC01220	12" x 5"	8	12.750	12.000	0.375	5.562	5.046	0.258	27.8
WBEC01230	12" x 6"	8	12.750	12.000	0.375	6.625	6.065	0.280	29.5
WBEC01240	12" x 8"	8	12.750	12.000	0.375	8.625	7.981	0.322	30.5
WBEC01250	12" x 10"	8	12.750	12.000	0.375	10.750	10.020	0.365	32.4
WBEC01410	14" x 6"	13	14.000	13.250	0.375	6.625	6.065	0.280	59.2
WBEC01420	14" x 8"	13	14.000	13.250	0.375	8.625	7.981	0.322	60.0
WBEC01430	14" x 10"	13	14.000	13.250	0.375	10.750	10.020	0.365	61.4
WBEC01440	14" x 12"	13	14.000	13.250	0.375	12.750	12.000	0.375	63.1

Eccentric Reducer

Standard Weight (Continued)

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

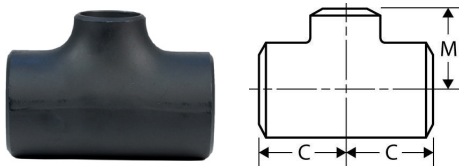


Part #	Size	H	Large End			Small End			Weight (lbs)
			Outside Dia.	Inside Dia.	Wall Thickness	Outside Dia.	Inside Dia.	Wall Thickness	
WBEC01610	16" x 8"	14	16.000	15.250	0.375	8.625	7.981	0.322	69
WBEC01620	16" x 10"	14	16.000	15.250	0.375	10.750	10.020	0.365	71
WBEC01630	16" x 12"	14	16.000	15.250	0.375	12.750	12.000	0.375	72.7
WBEC01640	16" x 14"	14	16.000	15.250	0.375	14.000	13.250	0.375	75.4
WBEC01810	18" x 10"	15	18.000	17.250	0.375	10.750	10.020	0.365	83.7
WBEC01820	18" x 12"	15	18.000	17.250	0.375	12.750	12.000	0.375	84.8
WBEC01830	18" x 14"	15	18.000	17.250	0.375	14.000	13.250	0.375	86.0
WBEC01840	18" x 16"	15	18.000	17.250	0.375	16.000	15.250	0.375	87.3
WBEC02010	20" x 12"	20	20.000	19.250	0.375	12.750	12.000	0.375	118.0
WBEC02020	20" x 14"	20	20.000	19.250	0.375	14.000	13.250	0.375	119.0
WBEC02030	20" x 16"	20	20.000	19.250	0.375	16.000	15.250	0.375	121.0
WBEC02040	20" x 18"	20	20.000	19.250	0.375	18.000	17.250	0.375	123.0
WBEC02410	24" x 16"	20	24.000	23.250	0.375	16.000	15.250	0.375	150.0
WBEC02420	24" x 18"	20	24.000	23.250	0.375	18.000	17.250	0.375	153.0
WBEC02430	24" x 20"	20	24.000	23.250	0.375	20.000	19.250	0.375	156.0

Reducing Tee

Standard Weight

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

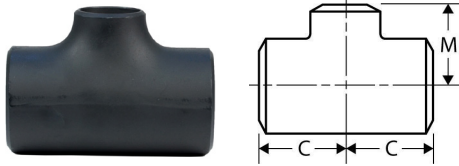


Part #	Size	Dimensions of Run				Dimensions of Branch				Pipe Sch	Weight (lbs)
		Outside Dia.	Inside Dia.	Wall Thickness	Center to End (C)	Outside Dia.	Inside Dia.	Wall Thickness	Center to End (M)		
WBRT3401	¾" x ½"	1.05	0.113	0.824	1.12	0.840	0.109	0.622	1.12	STD/40	0.41
WBRT1001	1" x ½"	1.32	0.133	1.05	1.50	0.840	0.109	0.622	1.50	STD/40	0.78
WBRT1002	1" x ¾"	1.32	0.133	1.05	1.50	1.05	0.113	0.824	1.50	STD/40	0.81
WBRT1141	1 ¼" x ½"	1.66	0.140	1.38	1.88	0.84	0.109	0.622	1.88	STD/40	1.3
WBRT1142	1 ¼" x ¾"	1.66	0.140	1.38	1.88	1.05	0.113	0.824	1.88	STD/40	1.3
WBRT1143	1 ¼" x 1"	1.66	0.140	1.38	1.88	1.32	0.133	1.005	1.88	STD/40	1.3
WBRT1121	1 ½" x ½"	1.90	0.145	1.61	2.25	0.84	0.109	0.622	2.25	STD/40	1.8
WBRT1122	1 ½" x ¾"	1.90	0.145	1.61	2.25	1.05	0.113	0.824	2.25	STD/40	1.8
WBRT1123	1 ½" x 1"	1.90	0.145	1.61	2.25	1.32	0.133	1.05	2.25	STD/40	1.9
WBRT1124	1 ½" x 1 ¼"	1.90	0.145	1.61	2.25	1.66	0.140	1.38	2.25	STD/40	2
WBRT2001	2" x ½"	2.38	0.154	2.07	2.50	0.840	0.109	0.622	1.50	STD/40	2
WBRT2002	2" x ¾"	2.38	0.154	2.07	2.50	1.05	0.113	0.824	1.75	STD/40	2.5
WBRT2003	2" x 1"	2.38	0.154	2.07	2.50	1.32	0.133	1.05	2.00	STD/40	2.8
WBRT2004	2" x 1 ¼"	2.38	0.154	2.07	2.50	1.66	0.140	1.38	2.25	STD/40	3
WBRT2005	2" x 1 ½"	2.38	0.154	2.07	2.50	1.90	0.145	1.61	2.38	STD/40	3.1
WBRT2121	2 ½" x ¾"	2.88	0.203	2.45	3.00	1.05	0.113	0.824	1.50	STD/40	3.7
WBRT2122	2 ½" x 1"	2.88	0.203	2.45	3.00	1.32	0.133	1.05	2.25	STD/40	4.6
WBRT2123	2 ½" x 1 ¼"	2.88	0.203	2.45	3.00	1.66	0.140	1.38	2.50	STD/40	4.8
WBRT2124	2 ½" x 1 ½"	2.88	0.203	2.47	3.00	1.90	0.145	1.61	2.62	STD/40	5.1
WBRT2125	2 ½" x 2"	2.88	0.203	2.47	3.00	2.38	0.154	2.01	2.75	STD/40	5.4
WBRT3001	3" x 1"	3.50	0.216	3.07	3.38	1.315	0.133	1.05	2.63	STD/40	6.5
WBRT3002	3" x 1 ¼"	3.50	0.216	3.07	3.38	1.66	0.140	1.38	2.75	STD/40	6.6
WBRT3003	3" x 1 ½"	3.50	0.216	3.07	3.38	1.90	0.145	1.61	2.88	STD/40	6.8

Reducing Tee

Standard Weight (Continued)

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



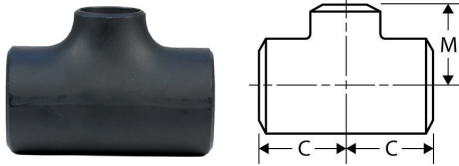
Part #	Size	Dimensions of Run				Dimensions of Branch				Pipe Sch	Weight (lbs)
		Outside Dia.	Inside Dia.	Wall Thickness	Center to End (C)	Outside Dia.	Inside Dia.	Wall Thickness	Center to End (M)		
WBRT3004	3" x 2"	3.50	0.216	3.07	3.38	2.38	0.154	2.07	3.00	STD/40	7
WBRT3005	3" x 2 1/2"	3.50	0.216	3.07	3.38	2.88	0.203	2.47	3.25	STD/40	7.2
WBRT4001	4" x 1"	4.50	0.237	4.03	4.12	1.315	0.133	1.05	2.63	STD/40	10.8
WBRT4002	4" x 1 1/4"	4.50	0.237	4.03	4.12	1.66	0.140	1.38	2.75	STD/40	11.0
WBRT4003	4" x 1 1/2"	4.50	0.237	4.03	4.12	1.90	0.145	1.61	3.38	STD/40	11.2
WBRT4004	4" x 2"	4.50	0.237	4.03	4.12	2.38	0.154	2.07	3.50	STD/40	11.2
WBRT4005	4" x 2 1/2"	4.50	0.237	4.03	4.12	2.875	0.203	2.47	3.75	STD/40	11.4
WBRT4006	4" x 3"	4.50	0.237	4.03	4.12	3.50	0.216	3.07	3.88	STD/40	11.6
WBRT5001	5" x 2"	5.56	0.258	5.01	4.88	2.38	0.154	2.07	4.12	STD/40	18.8
WBRT5002	5" x 2 1/2"	5.56	0.258	5.05	4.88	2.88	0.203	2.47	4.25	STD/40	19
WBRT5003	5" x 3"	5.56	0.258	5.05	4.88	3.50	0.216	3.07	4.38	STD/40	19.4
WBRT5004	5" x 4"	5.56	0.258	5.05	4.88	4.50	0.237	4.03	4.62	STD/40	20.5
WBRT6001	6" x 2"	6.62	0.280	6.07	5.62	2.38	0.258	2.07	4.75	STD/40	29
WBRT6002	6" x 2 1/2"	6.62	0.280	6.07	5.62	2.88	0.237	2.47	4.75	STD/40	29.7
WBRT6003	6" x 3"	6.62	0.280	6.07	5.62	3.50	0.226	3.07	4.88	STD/40	30
WBRT6004	6" x 4"	6.62	0.280	6.07	5.62	4.50	0.203	4.026	5.12	STD/40	30.5
WBRT6005	6" x 5"	6.62	0.280	6.07	5.62	5.62	0.154	5.05	5.38	STD/40	32
WBRT8001	8" x 3"	8.62	0.322	7.981	7.00	3.50	0.216	3.068	6.00	STD/40	52
WBRT8002	8" x 4"	8.62	0.322	7.981	7.00	4.50	0.237	4.026	6.12	STD/40	53.2
WBRT8003	8" x 5"	8.62	0.322	7.981	7.00	5.56	0.258	5.047	6.38	STD/40	54
WBRT8004	8" x 6"	8.62	0.322	7.981	7.00	6.62	0.280	6.065	6.62	STD/40	56.5
WBRT01001	10" x 4"	10.75	0.365	10.020	8.50	4.50	0.237	4.026	7.25	STD/40	82
WBRT01002	10" x 5"	10.75	0.365	10.020	8.50	5.56	0.258	5.047	7.50	STD/40	82.5
WBRT01003	10" x 6"	10.75	0.365	10.020	8.50	6.62	0.280	6.065	7.62	STD/40	85.9
WBRT01004	10" x 8"	10.75	0.365	10.020	8.50	8.62	0.322	7.981	8.00	STD/40	86.5
WBRT01201	12" x 4"	12.75	0.375	12.000	10.00	4.50	0.237	4.026	8.50	STD**	112
WBRT01202	12" x 5"	12.75	0.375	12.000	10.00	5.56	0.258	5.047	8.50	STD**	117
WBRT01203	12" x 6"	12.75	0.375	12.000	10.00	6.62	0.280	6.065	8.62	STD**	118
WBRT01204	12" x 8"	12.75	0.375	12.000	10.00	8.62	0.322	7.981	9.00	STD**	120
WBRT01205	12" x 10"	12.75	0.375	12.000	10.00	10.75	0.365	10.02	9.50	STD**	123
WBRT01401	14" x 6"	14.00	0.375	13.250	11.00	6.62	0.280	6.065	9.38	STD/30	145
WBRT01402	14" x 8"	14.00	0.375	13.250	11.00	8.62	0.322	7.981	9.75	STD/30	146
WBRT01403	14" x 10"	14.00	0.375	13.250	11.00	10.75	0.365	10.02	10.12	STD/30	148
WBRT01404	14" x 12"	14.00	0.375	13.250	11.00	12.75	0.375	12.00	10.62	STD/30	151
WBRT01601	16" x 6"	16.00	0.375	15.250	12.00	6.62	0.280	6.065	10.38	STD/30	180
WBRT01602	16" x 8"	16.00	0.375	15.250	12.00	8.62	0.322	7.981	10.75	STD/30	190
WBRT01603	16" x 10"	16.00	0.375	15.250	12.00	10.75	0.365	10.02	11.12	STD/30	197
WBRT01604	16" x 12"	16.00	0.375	15.250	12.00	12.75	0.375	12.00	11.62	STD/30	213
WBRT01605	16" x 14"	16.00	0.375	15.250	12.00	14.00	0.375	13.25	12.00	STD/30	221
WBRT01801	18" x 10"	18.00	0.375	17.250	13.50	10.75	0.365	10.02	12.12	STD**	229
WBRT01802	18" x 12"	18.00	0.375	17.250	13.50	12.75	0.375	12.00	12.62	STD**	241

* STD** Designates this size and thickness do not correspond to any pipe schedule number.

Reducing Tee

Standard Weight (Continued)

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



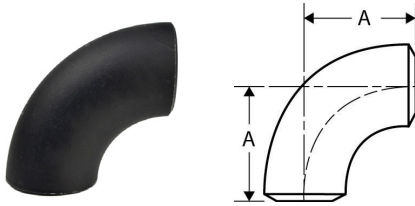
Part #	Size	Dimensions of Run				Dimensions of Branch				Pipe Sch	Weight (lbs)
		Outside Dia.	Inside Dia.	Wall Thickness	Center to End (C)	Outside Dia.	Inside Dia.	Wall Thickness	Center to End (M)		
WBRT01803	18" x 14"	18.00	0.375	17.250	13.50	14.00	0.375	13.25	13.00	STD**	248
WBRT01804	18" x 16"	18.00	0.375	17.250	13.50	16.00	0.375	15.25	13.00	STD**	262
WBRT02001	20" x 10"	20.00	0.375	19.250	15.00	10.75	0.365	10.02	13.12	STD/20	305
WBRT02002	20" x 12"	20.00	0.375	19.250	15.00	12.75	0.375	12.00	13.62	STD/20	315
WBRT02003	20" x 14"	20.00	0.375	19.250	15.00	14.00	0.375	13.25	14.00	STD/20	327
WBRT02004	20" x 16"	20.00	0.375	19.250	15.00	16.00	0.375	15.25	14.00	STD/20	339
WBRT02005	20" x 18"	20.00	0.375	19.250	15.00	18.00	0.375	17.25	14.50	STD/20	352
WBRT02401	24" x 10"	24.00	0.375	23.250	17.00	10.75	0.365	10.02	15.12	STD/20	447
WBRT02402	24" x 12"	24.00	0.375	23.250	17.00	12.75	0.375	12.00	15.62	STD/20	450
WBRT02403	24" x 14"	24.00	0.375	23.250	17.00	14.00	0.375	13.25	16.00	STD/20	465
WBRT02404	24" x 16"	24.00	0.375	23.250	17.00	16.00	0.375	15.25	16.00	STD/20	475
WBRT02405	24" x 18"	24.00	0.375	23.250	17.00	18.00	0.375	17.25	16.50	STD/20	487
WBRT02406	24" x 20"	24.00	0.375	23.250	17.00	20.00	0.375	19.25	17.00	STD/20	500

* STD** Designates this size and thickness do not correspond to any pipe schedule number.

Long Radius 90 Elbow

Extra Heavy

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

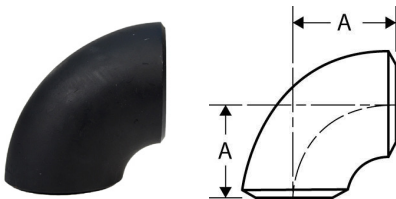


Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	A	Pipe Sch	Weight (lbs)
WXL0012	1/2"	0.840	0.546	0.147	1.50	XH/80	0.26
WXL0034	3/4"	1.050	0.742	0.154	1.50	XH/80	0.29
WXL0100	1"	1.315	0.957	0.179	1.50	XH/80	0.48
WXL0114	1 1/4"	1.660	1.278	0.191	1.88	XH/80	0.79
WXL0112	1 1/2"	1.900	1.500	0.200	2.25	XH/80	1.2
WXL0200	2"	2.375	1.939	0.218	3.00	XH/80	2.1
WXL0212	2 1/2"	2.875	2.323	0.276	3.75	XH/80	3.8
WXL0300	3"	3.500	2.900	0.300	4.50	XH/80	6.3
WXL0400	4"	4.500	3.826	0.337	6.00	XH/80	12.5
WXL0500	5"	5.563	4.813	0.375	7.50	XH/80	21.2
WXL0600	6"	6.625	5.761	0.432	9.00	XH/80	34.4
WXL0800	8"	8.625	7.625	0.500	12.00	XH/80	71.3
WXL01000	10"	10.75	9.750	0.500	15.00	XH/60	111
WXL01200	12"	12.75	11.75	0.500	18.00	XH*	158
WXL01400	14"	14.00	13.00	0.500	21.00	XH*	201
WXL01600	16"	16.00	15.00	0.500	24.00	XH/40	270
WXL01800	18"	18.00	17.00	0.500	27.00	XH*	348
WXL02000	20"	20.00	19.00	0.500	30.00	XH/30	422
WXL02400	24"	24.00	23.00	0.500	36.00	XH*	604

Short Radius 90 Elbow

Extra Heavy

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



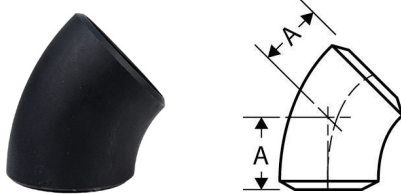
Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	A	Pipe Sch	Weight (lbs)
WXLN0100	1"	1.315	0.957	0.179		XH/80	0.50
WXLN0114	1 1/4"	1.660	1.278	0.191		XH/80	0.50
WXLN0112	1 1/2"	1.90	1.50	0.200	1.50	XH/80	0.8
WXLN0200	2"	2.38	1.94	0.218	2.00	XH/80	1.5
WXLN0212	2 1/2"	2.88	2.32	0.276	2.50	XH/80	2.6
WXLN0300	3"	3.50	2.90	0.300	3.00	XH/80	3.8
WXLN0400	4"	4.50	3.83	0.337	4.00	XH/80	7.6
WXLN0500	5"	5.56	4.81	0.375	5.00	XH/80	13.8
WXLN0600	6"	6.63	5.76	0.432	6.00	XH/80	22.8
WXLN0800	8"	8.63	7.62	0.500	8.00	XH/80	47.3
WXLN01000	10"	10.75	9.75	0.500	10.00	XH/60	71
WXLN01200	12"	12.75	11.75	0.500	12.00	XH*	104
WXLN01400	14"	14.00	13.00	0.500	14.00	XH*	137

* XH* Designates Extra Strong (extra strong wall). This size and thickness do not correspond to any pipe schedule number.

45 Elbow

Extra Heavy

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

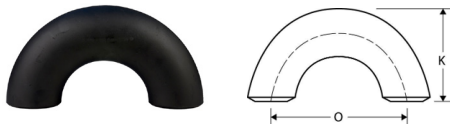


Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	A	Pipe Sch	Weight (lbs)
WXFF0012	1/2"	0.84	0.546	0.147	0.62	XH/80	0.15
WXFF0034	3/4"	1.05	0.742	0.154	0.75	XH/80	0.16
WXFF0100	1"	1.32	0.957	0.179	0.88	XH/80	0.28
WXFF0114	1 1/4"	1.66	1.28	0.191	1.00	XH/80	0.45
WXFF0112	1 1/2"	1.90	1.50	0.200	1.12	XH/80	0.61
WXFF0200	2"	2.38	1.94	0.218	1.38	XH/80	1.2
WXFF0212	2 1/2"	2.88	2.32	0.276	1.75	XH/80	2.0
WXFF0300	3"	3.50	2.90	0.300	2.00	XH/80	3.3
WXFF0400	4"	4.50	3.83	0.337	2.50	XH/80	6.2
WXFF0500	5"	5.56	4.81	0.375	3.12	XH/80	10.5
WXFF0600	6"	6.62	5.76	0.432	3.75	XH/80	17.0
WXFF0800	8"	8.62	7.63	0.500	5.00	XH/80	34.3
WXFF01000	10"	10.75	9.75	0.500	6.25	XH/60	53.5
WXFF01200	12"	12.75	11.75	0.500	7.50	XH*	77.6
WXFF01400	14"	14.00	13.00	0.500	8.75	XH*	100
WXFF01600	16"	16.00	15.00	0.500	10.00	XH/40	134
WXFF01800	18"	18.00	17.00	0.500	11.25	XH*	170
WXFF02000	20"	20.00	19.00	0.500	12.50	XH/30	209
WXFF02400	24"	24.00	23.00	0.500	15.00	XH*	302

Long Radius 180 Return Bend

Extra Heavy

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	Center to Center (O)	Back to Face (K)	Pipe Sch	Weight (lbs)
WXLRB0100	1"	1.315	0.957	0.179	3.00	2.12	XH/80	0.97
WXLRB0114	1 1/4"	1.660	1.278	0.191	3.75	2.75	XH/80	1.6
WXLRB0112	1 1/2"	1.900	1.500	0.200	4.50	3.25	XH/80	2.2
WXLRB0200	2"	2.375	1.939	0.218	6.00	4.12	XH/80	4.1
WXLRB0212	2 1/2"	2.875	2.323	0.276	7.50	5.12	XH/80	7.7
WXLRB0300	3"	3.500	2.900	0.300	9.00	6.25	XH/80	12.4
WXLRB0400	4"	4.500	3.826	0.337	12.00	8.25	XH/80	24.1
WXLRB0500	5"	5.563	4.813	0.375	15.00	10.31	XH/80	41.7
WXLRB0600	6"	6.625	5.761	0.432	18.00	12.31	XH/80	68.2

Short Radius 180 Return Bend

Extra Heavy

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



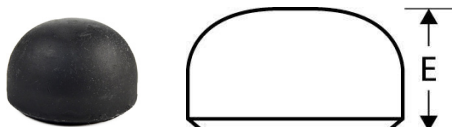
Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	Center to Center (O)	Back to Face (K)	Pipe Sch	Weight (lbs)
WXSRB0114	1 1/4"	1.660	1.278	0.191			XH/80	1.3
WXSRB0112	1 1/2"	1.90	1.50	0.200	3.00	2.44	XH/80	1.5
WXSRB0200	2"	2.37	1.93	0.218	4.00	3.19	XH/80	2.9
WXSRB0212	2 1/2"	2.87	2.32	0.276	5.00	3.94	XH/80	5.2
WXSRB0300	3"	3.50	2.90	0.300	6.00	4.75	XH/80	8.2
WXSRB0400	4"	4.50	3.83	0.337	8.00	6.25	XH/80	16.4
WXSRB0500	5"	5.56	4.81	0.375	10.00	7.75	XH/80	27.7

* XH* Designates Extra Strong (extra strong wall). This size and thickness do not correspond to any pipe schedule number.

Caps

Extra Heavy

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

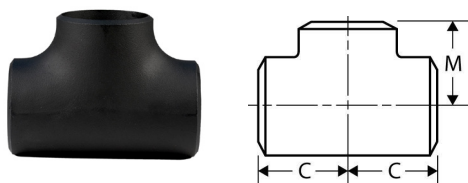


Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	E	Pipe Sch	Weight (lbs)
WXCP0012	½"	0.84	0.546	0.147	1.00	XH/80	0.1
WXCP0034	¾"	1.050	0.742	0.154	1.25	XH/80	0.16
WXCP0100	1"	1.315	0.957	0.179	1.50	XH/80	0.28
WXCP0114	1 ¼"	1.660	1.278	0.191	1.50	XH/80	0.48
WXCP0112	1 ½"	1.900	1.500	0.200	1.50	XH/80	0.67
WXCP0200	2"	2.375	1.939	0.218	1.50	XH/80	0.92
WXCP0212	2 ½"	2.875	2.323	0.276	1.50	XH/80	1.3
WXCP0300	3"	3.500	2.900	0.300	2.00	XH/80	2.1
WXCP0400	4"	4.500	3.826	0.337	2.50	XH/80	3.5
WXCP0500	5"	5.563	4.813	0.375	3.00	XH/80	5.8
WXCP0600	6"	6.625	5.761	0.432	4.00	XH/80	9.3
WXCP0800	8"	8.625	7.625	0.500	4.00	XH/80	16
WXCP01000	10"	10.75	9.750	0.500	5.00	XH/60	26
WXCP01200	12"	12.75	11.75	0.500	6.00	XH*	38
WXCP01400	14"	14.00	13.00	0.500	6.50	XH*	47
WXCP01600	16"	16.00	15.00	0.500	7.00	XH/40	57
WXCP01800	18"	18.00	17.00	0.500	8.00	XH*	78
WXCP02000	20"	20.00	19.00	0.500	9.00	XH/30	100
WXCP02400	24"	24.00	23.00	0.500	10.50	XH*	145

Straight Tee

Extra Heavy

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



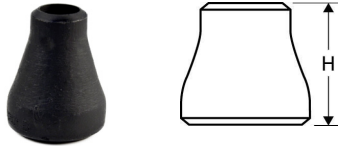
Part #	Size	Outside Dia.	Inside Dia.	Wall Thickness	Center to End (C)	Center to End (M)	Pipe Sch	Weight (lbs)
WXTE0012	½"	0.840	0.546	0.147	1.00	1.00	XH/80	0.37
WXTE0034	¾"	1.050	0.742	0.154	1.12	1.12	XH/80	0.58
WXTE0100	1"	1.315	0.957	0.179	1.50	1.50	XH/80	0.87
WXTE0114	1 ¼"	1.660	1.278	0.191	1.88	1.88	XH/80	1.6
WXTE0112	1 ½"	1.900	1.500	0.200	2.25	2.25	XH/80	2.3
WXTE0200	2"	2.375	1.939	0.218	2.50	2.50	XH/80	3.9
WXTE0212	2 ½"	2.875	2.323	0.276	3.00	3.00	XH/80	6.5
WXTE0300	3"	3.500	2.900	0.300	3.38	3.38	XH/80	9
WXTE0400	4"	4.500	3.826	0.337	4.12	4.12	XH/80	16.2
WXTE0500	5"	5.563	4.813	0.375	4.88	4.88	XH/80	26.6
WXTE0600	6"	6.625	5.761	0.432	5.62	5.62	XH/80	41.8
WXTE0800	8"	8.625	7.625	0.500	7.00	7.00	XH/80	76.2
WXTE01000	10"	10.75	9.750	0.500	8.50	8.50	XH/60	115
WXTE01200	12"	12.75	11.75	0.500	10.00	10.00	XH*	169
WXTE01400	14"	14.00	13.00	0.500	11.00	11.00	XH*	237
WXTE01600	16"	16.00	15.00	0.500	12.00	12.00	XH/40	284
WXTE01800	18"	18.00	17.00	0.500	13.50	13.50	XH*	353
WXTE02000	20"	20.00	19.00	0.500	15.00	15.00	XH/30	442
WXTE02400	24"	24.00	23.00	0.500	17.00	17.00	XH*	625

* XH* Designates Extra Strong (extra strong wall). This size and thickness do not correspond to any pipe schedule number.

Concentric Reducer

Extra Heavy

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

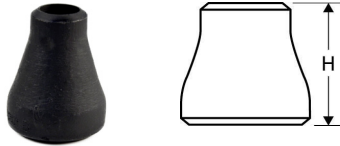


Part #	Size	H	Large End			Small End			Weight (lbs)
			Outside Dia.	Inside Dia.	Wall Thickness	Outside Dia.	Inside Dia.	Wall Thickness	
WXCR3401	¾" x ½"	1.5	1.030	0.722	0.154	0.840	0.546	0.147	0.25
WXCR1001	1" x ½"	2	1.315	0.957	0.179	0.840	0.546	0.147	0.42
WXCR1002	1" x ¾"	2	1.315	0.957	0.179	1.030	0.722	0.154	0.43
WXCR1141	1 ¼" x ½"	2	1.660	1.278	0.191	0.840	0.546	0.147	0.53
WXCR1142	1 ¼" x ¾"	2	1.660	1.278	0.191	1.030	0.722	0.154	0.53
WXCR1143	1 ¼" x 1"	2	1.660	1.278	0.191	1.315	0.957	0.179	0.57
WXCR1121	1 ½" x ½"	2.5	1.900	1.500	0.200	0.840	0.546	0.147	0.65
WXCR1122	1 ½" x ¾"	2.5	1.900	1.500	0.200	1.030	0.722	0.154	0.65
WXCR1123	1 ½" x 1"	2.5	1.900	1.500	0.200	1.315	0.957	0.179	0.72
WXCR1124	1 ½" x 1 ¼"	2.5	1.900	1.500	0.200	1.660	1.278	0.191	0.78
WXCR2001	2" x ½"	3	2.375	1.939	0.218	0.840	0.546	0.147	0.86
WXCR2002	2" x ¾"	3	2.375	1.939	0.218	1.030	0.722	0.154	0.94
WXCR2003	2" x 1"	3	2.375	1.939	0.218	1.315	0.957	0.179	1.0
WXCR2004	2" x 1 ¼"	3	2.375	1.939	0.218	1.660	1.278	0.191	1.1
WXCR2005	2" x 1 ½"	3	2.375	1.939	0.218	1.900	1.500	0.200	1.2
WXCR2121	2 ½" x ¾"	3.5	2.875	2.323	0.276	1.030	0.722	0.154	1.4
WXCR2122	2 ½" x 1"	3.5	2.875	2.323	0.276	1.315	0.957	0.179	1.5
WXCR2123	2 ½" x 1 ¼"	3.5	2.875	2.323	0.276	1.660	1.278	0.191	1.7
WXCR2124	2 ½" x 1 ½"	3.5	2.875	2.323	0.276	1.900	1.500	0.200	1.9
WXCR2125	2 ½" x 2"	3.5	2.875	2.323	0.276	2.375	1.939	0.218	2.1
WXCR3001	3" x 1"	3.5	3.500	2.900	0.300	1.315	0.957	0.179	2.2
WXCR3002	3" x 1 ¼"	3.5	3.500	2.900	0.300	1.660	1.278	0.191	2.3
WXCR3003	3" x 1 ½"	3.5	3.500	2.900	0.300	1.900	1.500	0.200	2.4
WXCR3004	3" x 2"	3.5	3.500	2.900	0.300	2.375	1.939	0.218	2.6
WXCR3005	3" x 2 ½"	3.5	3.500	2.900	0.300	2.875	2.323	0.276	2.8
WXCR4001	4" x 1"	4	4.500	3.826	0.337	1.315	0.957	0.179	4
WXCR4002	4" x 1 ¼"	4	4.500	3.826	0.337	1.660	1.278	0.191	4.1
WXCR4003	4" x 1 ½"	4	4.500	3.826	0.337	1.900	1.500	0.200	4.2
WXCR4004	4" x 2"	4	4.500	3.826	0.337	2.375	1.939	0.218	4.3
WXCR4005	4" x 2 ½"	4	4.500	3.826	0.337	2.875	2.323	0.276	4.6
WXCR4006	4" x 3"	4	4.500	3.826	0.337	3.500	2.900	0.300	4.7
WXCR4007	4" x 3 ½"	4	4.500	3.826	0.337	4.000	3.364	0.318	4.9
WXCR5001	5" x 2"	5	5.562	4.812	0.375	2.375	1.939	0.218	6
WXCR5002	5" x 2 ½"	5	5.562	4.812	0.375	2.875	2.323	0.276	6.1
WXCR5003	5" x 3"	5	5.562	4.812	0.375	3.500	2.900	0.300	6.3
WXCR5004	5" x 4"	5	5.562	4.812	0.375	4.500	3.826	0.337	7.5
WXCR6001	6" x 2"	5.5	6.625	5.761	0.432	2.375	1.939	0.218	8.6
WXCR6002	6" x 2 ½"	5.5	6.625	5.761	0.432	2.875	2.323	0.276	9.1
WXCR6003	6" x 3"	5.5	6.625	5.761	0.432	3.500	2.900	0.300	9.7
WXCR6004	6" x 4"	5.5	6.625	5.761	0.432	4.500	3.826	0.337	10.7

Concentric Reducer

Extra Heavy (Continued)

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



Part #	Size	H	Large End			Small End			Weight (lbs)
			Outside Dia.	Inside Dia.	Wall Thickness	Outside Dia.	Inside Dia.	Wall Thickness	
WXCR6005	6" x 5"	5.5	6.625	5.761	0.432	5.562	4.812	0.375	11.5
WXCR8001	8" x 3"	6	8.625	7.625	0.500	3.500	2.900	0.300	15
WXCR8002	8" x 4"	6	8.625	7.625	0.500	4.500	3.826	0.337	17
WXCR8003	8" x 5"	6	8.625	7.625	0.500	5.562	4.812	0.375	17.6
WXCR8004	8" x 6"	6	8.625	7.625	0.500	6.625	5.761	0.432	18.8
WXCR01001	10" x 4"	7	10.750	9.750	0.500	4.500	3.826	0.337	24.2
WXCR01002	10" x 5"	7	10.750	9.750	0.500	5.562	4.812	0.375	26.9
WXCR01003	10" x 6"	7	10.750	9.750	0.500	6.625	5.761	0.432	28.3
WXCR01004	10" x 8"	8	10.750	9.750	0.500	8.625	7.625	0.500	29.4
WXCR01201	12" x 4"	8	12.750	11.750	0.500	4.500	3.826	0.337	34.7
WXCR01202	12" x 5"	8	12.750	11.750	0.500	5.562	4.812	0.375	36.3
WXCR01203	12" x 6"	8	12.750	11.750	0.500	6.625	5.761	0.432	37.4
WXCR01204	12" x 8"	8	12.750	11.750	0.500	8.625	7.625	0.500	38.6
WXCR01205	12" x 10"	8	12.750	11.750	0.500	10.750	9.750	0.500	41.5
WXCR01401	14" x 6"	13	14.000	13.000	0.500	6.625	5.761	0.432	72.3
WXCR01402	14" x 8"	13	14.000	13.000	0.500	8.625	7.625	0.500	74.6
WXCR01403	14" x 10"	13	14.000	13.000	0.500	10.750	9.750	0.500	76.7
WXCR01404	14" x 12"	13	14.000	13.000	0.500	12.750	11.750	0.500	81
WXCR01601	16" x 8"	14	16.000	15.000	0.500	8.625	7.625	0.500	91.1
WXCR01602	16" x 10"	14	16.000	15.000	0.500	10.750	9.750	0.500	93.3
WXCR01603	16" x 12"	14	16.000	15.000	0.500	12.750	11.750	0.500	95.8
WXCR01604	16" x 14"	14	16.000	15.000	0.500	14.000	13.000	0.500	98
WXCR01801	18" x 10"	15	18.000	17.000	0.500	10.750	9.750	0.500	113
WXCR01802	18" x 12"	15	18.000	17.000	0.500	12.750	11.750	0.500	115
WXCR01803	18" x 14"	15	18.000	17.000	0.500	14.000	13.000	0.500	117
WXCR01804	18" x 16"	15	18.000	17.000	0.500	16.000	15.000	0.500	118
WXCR02001	20" x 12"	20	20.000	19.000	0.500	12.750	11.750	0.500	155
WXCR02002	20" x 14"	20	20.000	19.000	0.500	14.000	13.000	0.500	157
WXCR02003	20" x 16"	20	20.000	19.000	0.500	16.000	15.000	0.500	159
WXCR02004	20" x 18"	20	20.000	19.000	0.500	18.000	17.000	0.500	162
WXCR02401	24" x 12"	20	24.000	23.000	0.500	12.750	11.750	0.500	194
WXCR02402	24" x 16"	20	24.000	23.000	0.500	16.000	15.000	0.500	194
WXCR02403	24" x 18"	20	24.000	23.000	0.500	18.000	17.000	0.500	197
WXCR02404	24" x 20"	20	24.000	23.000	0.500	20.000	19.000	0.500	201

Eccentric Reducer

Extra Heavy

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



Part #	Size	H	Large End			Small End			Weight (lbs)
			Outside Dia.	Inside Dia.	Wall Thickness	Outside Dia.	Inside Dia.	Wall Thickness	
WXEC3401	¾" x ½"	1.5	1.030	0.722	0.154	0.840	0.546	0.147	0.25
WXEC1001	1" x ½"	2	1.315	0.957	0.179	0.840	0.546	0.147	0.42
WXEC1002	1" x ¾"	2	1.315	0.957	0.179	1.030	0.722	0.154	0.43
WXEC1141	1 ¼" x ½"	2	1.660	1.278	0.191	0.840	0.546	0.147	0.53
WXEC1142	1 ¼" x ¾"	2	1.660	1.278	0.191	1.030	0.722	0.154	0.53
WXEC1143	1 ¼" x 1"	2	1.660	1.278	0.191	1.315	0.957	0.179	0.57
WXEC1121	1 ½" x ½"	2.5	1.900	1.500	0.200	0.840	0.546	0.147	0.65
WXEC1122	1 ½" x ¾"	2.5	1.900	1.500	0.200	1.030	0.722	0.154	0.65
WXEC1123	1 ½" x 1"	2.5	1.900	1.500	0.200	1.315	0.957	0.179	0.72
WXEC1124	1 ½" x 1 ¼"	2.5	1.900	1.500	0.200	1.660	1.278	0.191	0.78
WXEC2001	2" x ¾"	3	2.375	1.939	0.218	1.030	0.722	0.154	0.94
WXEC2002	2" x 1"	3	2.375	1.939	0.218	1.315	0.957	0.179	1.0
WXEC2003	2" x 1 ¼"	3	2.375	1.939	0.218	1.660	1.278	0.191	1.1
WXEC2004	2" x 1 ½"	3	2.375	1.939	0.218	1.900	1.500	0.200	1.2
WXEC2121	2 ½" x 1"	3.5	2.875	2.323	0.276	1.315	0.957	0.179	1.5
WXEC2122	2 ½" x 1 ¼"	3.5	2.875	2.323	0.276	1.660	1.278	0.191	1.7
WXEC2123	2 ½" x 1 ½"	3.5	2.875	2.323	0.276	1.900	1.500	0.200	1.9
WXEC2124	2 ½" x 2"	3.5	2.875	2.323	0.276	2.375	1.939	0.218	2.1
WXEC3001	3" x 1"	3.5	3.500	2.900	0.300	1.315	0.957	0.179	2.2
WXEC3002	3" x 1 ¼"	3.5	3.500	2.900	0.300	1.660	1.278	0.191	2.3
WXEC3003	3" x 1 ½"	3.5	3.500	2.900	0.300	1.900	1.500	0.200	2.4
WXEC3004	3" x 2"	3.5	3.500	2.900	0.300	2.375	1.939	0.218	2.6
WXEC3005	3" x 2 ½"	3.5	3.500	2.900	0.300	2.875	2.323	0.276	2.8
WXEC4001	4" x 1 ½"	4	4.500	3.826	0.337	1.900	1.500	0.200	4.2
WXEC4002	4" x 2"	4	4.500	3.826	0.337	2.375	1.939	0.218	4.3
WXEC4003	4" x 2 ½"	4	4.500	3.826	0.337	2.875	2.323	0.276	4.6
WXEC4004	4" x 3"	4	4.500	3.826	0.337	3.500	2.900	0.300	4.7
WXEC5001	5" x 2"	5	5.562	4.812	0.375	2.375	1.939	0.218	6
WXEC5002	5" x 2 ½"	5	5.562	4.812	0.375	2.875	2.323	0.276	6.1
WXEC5003	5" x 3"	5	5.562	4.812	0.375	3.500	2.900	0.300	6.3
WXEC5004	5" x 4"	5	5.562	4.812	0.375	4.500	3.826	0.337	7.5
WXEC6001	6" x 2"	5.5	6.625	5.761	0.432	2.375	1.939	0.218	8.6
WXEC6002	6" x 2 ½"	5.5	6.625	5.761	0.432	2.875	2.323	0.276	9.1
WXEC6003	6" x 3"	5.5	6.625	5.761	0.432	3.500	2.900	0.300	9.7
WXEC6004	6" x 4"	5.5	6.625	5.761	0.432	4.500	3.826	0.337	10.7
WXEC6005	6" x 5"	5.5	6.625	5.761	0.432	5.562	4.812	0.375	11.5
WXEC8001	8" x 3"	6	8.625	7.625	0.500	3.500	2.900	0.300	15
WXEC8002	8" x 4"	6	8.625	7.625	0.500	4.500	3.826	0.337	17
WXEC8003	8" x 5"	6	8.625	7.625	0.500	5.562	4.812	0.375	17.6
WXEC8004	8" x 6"	6	8.625	7.625	0.500	6.625	5.761	0.432	18.8

Eccentric Reducer

Extra Heavy (Continued)

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

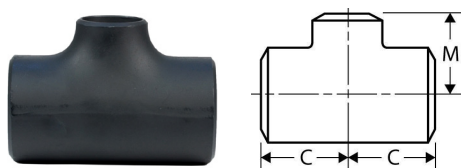


Part #	Size	H	Large End			Small End			Weight (lbs)
			Outside Dia.	Inside Dia.	Wall Thickness	Outside Dia.	Inside Dia.	Wall Thickness	
WXEC01001	10" x 4"	7	10.750	9.750	0.500	4.500	3.826	0.337	24.2
WXEC01002	10" x 5"	7	10.750	9.750	0.500	5.562	4.812	0.375	26.9
WXEC01003	10" x 6"	7	10.750	9.750	0.500	6.625	5.761	0.432	28.3
WXEC01004	10" x 8"	8	10.750	9.750	0.500	8.625	7.625	0.500	29.4
WXEC01201	12" x 4"	8	12.750	11.750	0.500	4.500	3.826	0.337	34.7
WXEC01202	12" x 5"	8	12.750	11.750	0.500	5.562	4.812	0.375	36.3
WXEC01203	12" x 6"	8	12.750	11.750	0.500	6.625	5.761	0.432	37.4
WXEC01204	12" x 8"	8	12.750	11.750	0.500	8.625	7.625	0.500	38.6
WXEC01205	12" x 10"	8	12.750	11.750	0.500	10.750	9.750	0.500	41.5
WXEC01401	14" x 8"	13	14.000	13.000	0.500	8.625	7.625	0.500	74.6
WXEC01402	14" x 10"	13	14.000	13.000	0.500	10.750	9.750	0.500	76.7
WXEC01403	14" x 12"	13	14.000	13.000	0.500	12.750	11.750	0.500	81.0
WXEC01601	16" x 6"	14	16.000	15.000	0.500	6.625	5.761	0.432	89.8

Reducing Tee

Extra Heavy

- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.

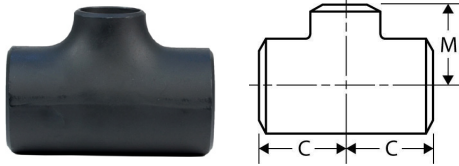


Part #	Size	Dimensions of Run				Dimensions of Branch				Pipe Sch	Weight (lbs)
		Outside Dia.	Inside Dia.	Wall Thickness	Center to End (C)	Outside Dia.	Inside Dia.	Wall Thickness	Center to End (M)		
WXRT3401	¾" x ½"	1.05	0.154	0.742	1.12	0.84	0.147	0.546	1.12	XH/80	0.47
WXRT1001	1" x ½"	1.32	0.179	0.957	1.50	0.84	0.147	0.546	1.50	XH/80	0.92
WXRT1002	1" x ¾"	1.32	0.179	0.957	1.50	1.05	0.154	0.742	1.50	XH/80	0.98
WXRT1141	1 ¼" x ½"	1.66	0.191	1.278	1.88	0.84	0.147	0.546	1.88	XH/80	1.6
WXRT1142	1 ¼" x ¾"	1.66	0.191	1.278	1.88	1.32	0.179	0.957	1.88	XH/80	1.6
WXRT1143	1 ¼" x 1"	1.66	0.191	1.278	1.88	1.05	0.154	0.742	1.88	XH/80	1.6
WXRT1121	1 ½" x ½"	1.90	0.200	1.500	2.25	0.84	0.147	0.546	2.25	XH/80	2.2
WXRT1122	1 ½" x ¾"	1.90	0.200	1.500	2.25	1.05	0.154	0.742	2.25	XH/80	2.2
WXRT1123	1 ½" x 1"	1.90	0.200	1.500	2.25	1.32	0.179	0.957	2.25	XH/80	2.3
WXRT1124	1 ½" x 1 ¼"	1.90	0.200	1.500	2.25	1.66	0.191	1.278	2.25	XH/80	2.4
WXRT2001	2" x ¾"	2.38	0.218	1.939	2.50	1.05	0.154	0.742	1.75	XH/80	3.5
WXRT2002	2" x 1"	2.38	0.218	1.939	2.50	1.32	0.179	0.957	2.00	XH/80	3.5
WXRT2003	2" x 1 ¼"	2.38	0.218	1.939	2.50	1.66	0.191	1.278	2.25	XH/80	3.7
WXRT2004	2" x 1 ½"	2.38	0.218	1.939	2.50	1.90	0.200	1.500	2.38	XH/80	3.8
WXRT2121	2 ½" x 1"	2.88	0.276	2.323	3.00	1.32	0.179	0.957	2.25	XH/80	5.8
WXRT2122	2 ½" x 1 ¼"	2.88	0.276	2.323	3.00	1.66	0.191	1.278	2.50	XH/80	6
WXRT2123	2 ½" x 1 ½"	2.88	0.276	2.323	3.00	1.90	0.145	1.500	2.62	XH/80	6.2
WXRT2124	2 ½" x 2"	2.88	0.276	2.323	3.00	2.38	0.218	1.939	2.75	XH/80	6.3
WXRT3001	3" x 1"	3.50	0.300	2.900	3.38	1.32	0.179	0.957	2.62	XH/80	7.8
WXRT3002	3" x 1 ¼"	3.50	0.300	2.900	3.38	1.66	0.191	1.278	2.75	XH/80	8
WXRT3003	3" x 1 ½"	3.50	0.300	2.900	3.38	1.90	0.200	1.500	2.88	XH/80	8.1
WXRT3004	3" x 2"	3.50	0.300	2.900	3.38	2.38	0.218	1.939	3.00	XH/80	8.6
WXRT3005	3" x 2 ½"	3.50	0.300	2.900	3.38	2.88	0.276	2.323	3.25	XH/80	8.8
WXRT4001	4" x 1 ½"	4.50	0.337	3.826	4.12	1.90	0.200	1.500	3.38	XH/80	15
WXRT4002	4" x 2"	4.50	0.337	3.826	4.12	2.38	0.218	1.939	3.50	XH/80	15.1

Reducing Tee

Extra Heavy (Continued)

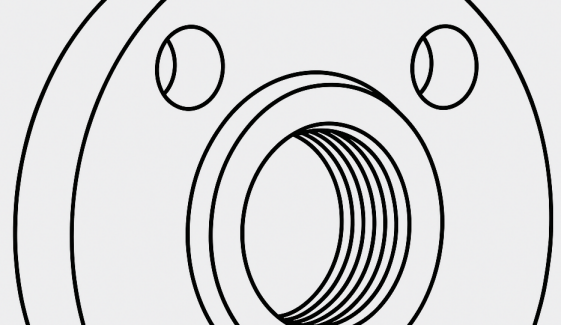
- Dimensions conform to ASME B16.9 & material conforms to ASTM SA-234 Grade B.



Part #	Size	Dimensions of Run				Dimensions of Branch				Pipe Sch	Weight (lbs)
		Outside Dia.	Inside Dia.	Wall Thickness	Center to End (C)	Outside Dia.	Inside Dia.	Wall Thickness	Center to End (M)		
WXRT4003	4" x 2 1/2"	4.50	0.337	3.826	4.12	2.88	0.276	2.323	3.75	XH/80	15.1
WXRT4004	4" x 3"	4.50	0.337	3.826	4.12	3.50	0.300	2.900	3.88	XH/80	15.4
WXRT5001	5" x 2"	5.56	0.375	4.813	4.88	2.38	0.218	1.939	4.12	XH/80	23.6
WXRT5002	5" x 2 1/2"	5.56	0.375	4.813	4.88	2.88	0.276	2.323	4.25	XH/80	23.9
WXRT5003	5" x 3"	5.56	0.375	4.813	4.88	3.50	0.300	2.900	4.38	XH/80	24.2
WXRT5004	5" x 4"	5.56	0.375	4.813	4.88	4.50	0.337	3.826	4.62	XH/80	25.4
WXRT6001	6" x 2"	6.62	0.432	5.761	5.62	2.38	0.218	1.939	4.75	XH/80	37.4
WXRT6002	6" x 2 1/2"	6.62	0.432	5.761	5.62	2.88	0.276	2.323	4.75	XH/80	38.2
WXRT6003	6" x 3"	6.62	0.432	5.761	5.62	3.50	0.300	2.900	4.88	XH/80	38.6
WXRT6004	6" x 4"	6.62	0.432	5.761	5.62	4.50	0.337	3.826	5.12	XH/80	39.3
WXRT6005	6" x 5"	6.62	0.432	5.761	5.62	5.56	0.375	4.813	5.38	XH/80	39.5
WXRT8001	8" x 3"	8.62	0.500	7.62	7.00	3.50	0.300	2.900	6.00	XH/80	68.3
WXRT8002	8" x 4"	8.62	0.500	7.62	7.00	4.50	0.337	3.826	6.12	XH/80	69.2
WXRT8003	8" x 5"	8.62	0.500	7.62	7.00	5.56	0.375	4.813	6.38	XH/80	69.4
WXRT8004	8" x 6"	8.62	0.500	7.62	7.00	6.62	0.432	5.761	6.62	XH/80	70.2
WXRT01001	10" x 5"	10.75	0.500	9.75	8.50	5.56	0.375	4.813	7.50	XH/60	103
WXRT01002	10" x 6"	10.75	0.500	9.75	8.50	6.62	0.432	5.761	7.62	XH/60	104
WXRT01003	10" x 8"	10.75	0.500	9.75	8.50	8.62	0.500	7.625	8.00	XH/60	107
WXRT01201	12" x 4"	12.75	0.500	11.75	10.00	4.50	0.337	3.826	8.50	XH/60	148
WXRT01202	12" x 5"	12.75	0.500	11.75	10.00	5.56	0.375	4.813	8.50	XH**	149
WXRT01203	12" x 6"	12.75	0.500	11.75	10.00	6.62	0.432	5.761	8.62	XH**	151
WXRT01204	12" x 8"	12.75	0.500	11.75	10.00	8.62	0.500	7.625	9.00	XH**	156
WXRT01205	12" x 10"	12.75	0.500	11.75	10.00	10.75	0.500	9.750	9.50	XH**	165
WXRT01401	14" x 8"	14.00	0.500	13.00	11.00	8.62	0.500	7.625	9.75	XH**	200
WXRT01402	14" x 10"	14.00	0.500	13.00	11.00	10.75	0.500	9.750	10.12	XH**	203
WXRT01403	14" x 12"	14.00	0.500	13.00	11.00	12.75	0.500	11.750	10.62	XH**	210

* XH** Designates this size and thickness do not correspond to any pipe schedule number.

FORGED CARBON STEEL FLANGES



- Flanges are specified per ASTM/ASME A/SA 105 and ANSI B16.5
- Available in pressure rating class 150, 300 & 600
- Flanges include standard and extra heavy bore weld necks, socket welds, slip-ons, threaded, lap joints and blinds.

Weld Fitting Part Numbering System

Product Group / Class:

SF	Class 150 Flange
SX	Class 300 Flange
SXX	Class 600 Flange

Flange Type:

WN	Weld Neck
WX	Weld Neck Extra Heavy Bore
SO	Slip On
BL	Blind
TH	Threaded
SW	Socket Weld
SX	Socket Weld Extra Heavy Bore
LJ	Lap Joint

Face:

R	Raised Face
F	Flat Face

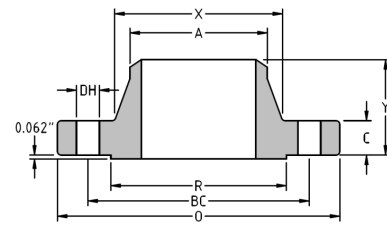
SF	WN - R	0012	
Product Group	Flange Type	Face	Size



Weld Neck Flange

Class 150

- Dimensions conform to ASTM A/SA-105; ASME B16.5

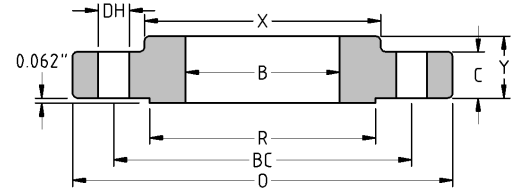


Part # Raised Face	Part # Raised Face XH Bore	Part # Flat Face	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Diam. of Hub at Point of Welding (A)	Length thru Hub (Y)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SFWN-R0012	SFWX-R0012		½"	3.50	0.38	1.38	1.19	0.84	1.88	4	0.62	0.50	2.38	2
SFWN-R0034	SFWX-R0034		¾"	3.88	0.44	1.69	1.50	1.05	2.06	4	0.62	0.50	2.75	2
SFWN-R0100	SFWX-R0100		1"	4.25	0.5	2.00	1.94	1.32	2.19	4	0.62	0.50	3.12	3
SFWN-R0114	SFWX-R0114		1 ¼"	4.62	0.56	2.50	2.31	1.66	2.25	4	0.62	0.50	3.50	3
SFWN-R0112	SFWX-R0112		1 ½"	5.00	0.63	2.88	2.56	1.90	2.44	4	0.62	0.50	3.88	4
SFWN-R0200	SFWX-R0200	SFWN-F0200	2"	6.00	0.69	3.62	3.06	2.38	2.50	4	0.75	0.62	4.75	6
SFWN-R0212	SFWX-R0212	SFWN-F0212	2 ½"	7.00	0.82	4.12	3.56	2.88	2.75	4	0.75	0.62	5.50	8
SFWN-R0300	SFWX-R0300	SFWN-F0300	3"	7.50	0.88	5.00	4.25	3.50	2.75	4	0.75	0.62	6.00	10
SFWN-R0400	SFWX-R0400	SFWN-F0400	4"	9.00	0.88	6.19	5.31	4.50	3.00	8	0.75	0.62	7.50	15
SFWN-R0500	SFWX-R0500	SFWN-F0500	5"	10.00	0.88	7.31	6.44	5.56	3.50	8	0.88	0.75	8.50	19
SFWN-R0600	SFWX-R0600	SFWN-F0600	6"	11.00	0.94	8.50	7.56	6.63	3.50	8	0.88	0.75	9.50	24
SFWN-R0800	SFWX-R0800	SFWN-F0800	8"	13.50	1.06	10.62	9.69	8.63	4.00	8	0.88	0.75	11.75	39
SFWN-R01000	SFWX-R01000	SFWN-F01000	10"	16.00	1.13	12.75	12.00	10.75	4.00	12	1.00	0.88	14.25	52
SFWN-R01200	SFWX-R01200	SFWN-F01200	12"	19.00	1.19	15.00	14.38	12.75	4.50	12	1.00	0.88	17.00	80
SFWN-R01400	SFWX-R01400	SFWN-F01400	14"	21.00	1.32	16.25	15.75	14.00	5.00	12	1.12	1.00	18.75	110
SFWN-R01600	SFWX-R01600	SFWN-F01600	16"	23.50	1.38	18.50	18.00	16.00	5.00	16	1.12	1.00	21.25	140
SFWN-R01800	SFWX-R01800		18"	25.00	1.5	21.00	19.88	18.00	5.50	16	1.25	1.12	22.75	150
SFWN-R02000	SFWX-R02000		20"	27.50	1.63	23.00	22.00	20.00	5.69	20	1.25	1.12	25.00	180
SFWN-R02400	SFWX-R02400		24"	32.00	1.82	27.25	26.12	24.00	6.00	20	1.38	1.25	29.50	260

Slip-On Flange

Class 150

- Dimensions conform to ASTM A/SA-105; ASME B16.5

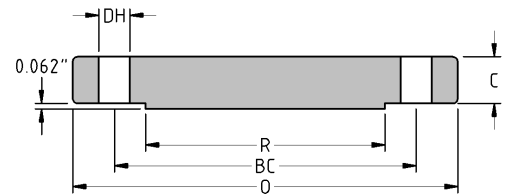


Part # Raised Face	Part # Flat Face	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Length thru Hub (Y)	Diam. of Bore (B)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SFSO-R0012		½"	3.50	0.38	1.38	1.19	0.62	0.88	4	0.62	0.50	2.38	1
SFSO-R0034		¾"	3.88	0.44	1.69	1.50	0.62	1.09	4	0.62	0.50	2.75	2
SFSO-R0100	SFSO-F0100	1"	4.25	0.5	2.00	1.94	0.69	1.36	4	0.62	0.50	3.12	2
SFSO-R0114	SFSO-F0114	1 ¼"	4.62	0.56	2.50	2.31	0.81	1.70	4	0.62	0.50	3.50	3
SFSO-R0112	SFSO-F0112	1 ½"	5.00	0.63	2.88	2.56	0.88	1.95	4	0.62	0.50	3.88	3
SFSO-R0200	SFSO-F0200	2"	6.00	0.69	3.62	3.06	1.00	2.44	4	0.75	0.62	4.75	5
SFSO-R0212	SFSO-F0212	2 ½"	7.00	0.82	4.12	3.56	1.12	2.94	4	0.75	0.62	5.50	7
SFSO-R0300	SFSO-F0300	3"	7.50	0.88	5.00	4.25	1.19	3.57	4	0.75	0.62	6.00	8
SFSO-R0400	SFSO-F0400	4"	9.00	0.88	6.19	5.31	1.31	4.57	8	0.75	0.62	7.50	13
SFSO-R0500	SFSO-F0500	5"	10.00	0.88	7.31	6.44	1.44	5.66	8	0.88	0.75	8.50	15
SFSO-R0600	SFSO-F0600	6"	11.00	0.94	8.50	7.56	1.56	6.72	8	0.88	0.75	9.50	19
SFSO-R0800	SFSO-F0800	8"	13.50	1.06	10.62	9.69	1.75	8.72	8	0.88	0.75	11.75	30
SFSO-R01000	SFSO-F01000	10"	16.00	1.13	12.75	12.00	1.94	10.88	12	1.00	0.88	14.25	43
SFSO-R01200	SFSO-F01200	12"	19.00	1.19	15.00	14.38	2.19	12.88	12	1.00	0.88	17.00	64
SFSO-R01400	SFSO-F01400	14"	21.00	1.32	16.25	15.75	2.25	14.14	12	1.12	1.00	18.75	90
SFSO-R01600	SFSO-F01600	16"	23.50	1.38	18.50	18.00	2.50	16.16	16	1.12	1.00	21.25	98
SFSO-R01800		18"	25.00	1.5	21.00	19.88	2.69	18.18	16	1.25	1.12	22.75	130
SFSO-R02000		20"	27.50	1.63	23.00	22.00	2.88	20.20	20	1.25	1.12	25.00	165
SFSO-R02400	SFSO-F02400	24"	32.00	1.88	27.25	26.12	3.25	24.25	20	1.38	1.25	29.50	220

Blind Flange

Class 150

- Dimensions conform to ASTM A/SA-105; ASME B16.5

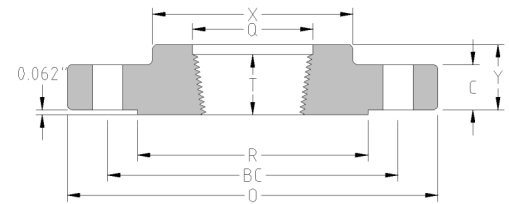


Part # Raised Face	Part # Flat Face	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SFBL-R0012		½"	3.50	0.38	1.38	4	0.62	0.50	2.38	1
SFBL-R0034		¾"	3.88	0.44	1.69	4	0.62	0.50	2.75	2
SFBL-R0100		1"	4.25	0.5	2.00	4	0.62	0.50	3.12	2
SFBL-R0114		1 ¼"	4.62	0.56	2.50	4	0.62	0.50	3.50	3
SFBL-R0112		1 ½"	5.00	0.63	2.88	4	0.62	0.50	3.88	4
SFBL-R0200	SFBL-F0200	2"	6.00	0.69	3.62	4	0.75	0.62	4.75	5
SFBL-R0212	SFBL-F0212	2 ½"	7.00	0.82	4.12	4	0.75	0.62	5.50	7
SFBL-R0300	SFBL-F0300	3"	7.50	0.88	5.00	4	0.75	0.62	6.00	9
SFBL-R0400	SFBL-F0400	4"	9.00	0.88	6.19	8	0.75	0.62	7.50	17
SFBL-R0500	SFBL-F0500	5"	10.00	0.88	7.31	8	0.88	0.75	8.50	20
SFBL-R0600	SFBL-F0600	6"	11.00	0.94	8.50	8	0.88	0.75	9.50	26
SFBL-R0800	SFBL-F0800	8"	13.50	1.06	10.62	8	0.88	0.75	11.75	45
SFBL-R01000	SFBL-F01000	10"	16.00	1.13	12.75	12	1.00	0.88	14.25	70
SFBL-R01200	SFBL-F01200	12"	19.00	1.19	15.00	12	1.00	0.88	17.00	110
SFBL-R01400		14"	21.00	1.32	16.25	12	1.12	1.00	18.75	140
SFBL-R01600		16"	23.50	1.38	18.50	16	1.12	1.00	21.25	180
SFBL-R01800		18"	25.00	1.5	21.00	16	1.25	1.12	22.75	220
SFBL-R02000		20"	27.50	1.63	23.00	20	1.25	1.12	25.00	285
SFBL-R02400		24"	32.00	1.88	27.25	20	1.38	1.25	29.50	430

Threaded Flange

Class 150

- Dimensions conform to ASTM A/SA-105; ASME B16.5

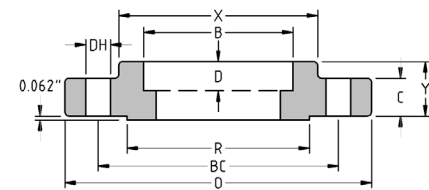


Part # Raised Face	Part # Flat Face	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Length thru Hub (Y)	Min. Thread Length (T)	Min. Counter Bore (Q)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SFTH-R0012		½"	3.50	0.38	1.38	1.19	0.62	0.62	—	4	0.62	0.50	2.38	1
SFTH-R0034		¾"	3.88	0.44	1.69	1.50	0.62	0.62	—	4	0.62	0.50	2.75	2
SFTH-R0100	SFTH-F0100	1"	4.25	0.5	2.00	1.94	0.69	0.69	—	4	0.62	0.50	3.12	2
SFTH-R0114	SFTH-F0114	1 ¼"	4.62	0.56	2.50	2.31	0.81	0.81	—	4	0.62	0.50	3.50	3
SFTH-R0112	SFTH-F0112	1 ½"	5.00	0.63	2.88	2.56	0.88	0.88	—	4	0.62	0.50	3.88	3
SFTH-R0200	SFTH-F0200	2"	6.00	0.69	3.62	3.06	1.00	1.00	—	4	0.75	0.62	4.75	5
SFTH-R0212	SFTH-F0212	2 ½"	7.00	0.82	4.12	3.56	1.12	1.12	—	4	0.75	0.62	5.50	7
SFTH-R0300	SFTH-F0300	3"	7.50	0.88	5.00	4.25	1.19	1.19	—	4	0.75	0.62	6.00	8
SFTH-R0400	SFTH-F0400	4"	9.00	0.88	6.19	5.31	1.31	1.31	—	8	0.75	0.62	7.50	13
SFTH-R0500	SFTH-F0500	5"	10.00	0.88	7.31	6.44	1.44	1.44	—	8	0.88	0.75	8.50	15
SFTH-R0600	SFTH-F0600	6"	11.00	0.94	8.50	7.56	1.56	1.56	—	8	0.88	0.75	9.50	19
SFTH-R0800	SFTH-F0800	8"	13.50	1.06	10.62	9.69	1.75	1.75	—	8	0.88	0.75	11.75	30
SFTH-R01000		10"	16.00	1.13	12.75	12.00	1.94	1.94	—	12	1.00	0.88	14.25	43
SFTH-R01200		12"	19.00	1.19	15.00	14.38	2.19	2.19	—	12	1.00	0.88	17.00	64

Socket Weld Flange

Class 150

- Dimensions conform to ASTM A/SA-105; ASME B16.5

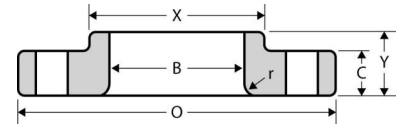


Part # Raised Face	Part # Raised Face XH Bore	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Length thru Hub (Y)	Diam. of Bore (B)	Depth of Socket (D)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SFSW-R0012	SFSX-R0012	½"	3.50	0.38	1.38	1.19	0.62	0.88	0.38	4	0.62	0.50	2.38	1
SFSW-R0034	SFSX-R0034	¾"	3.88	0.44	1.69	1.50	0.62	1.09	0.44	4	0.62	0.50	2.75	2
SFSW-R0100	SFSX-R0100	1"	4.25	0.5	2.00	1.94	0.69	1.36	0.50	4	0.62	0.50	3.12	2
SFSW-R0114	SFSX-R0114	1 ¼"	4.62	0.56	2.50	2.31	0.81	1.70	0.56	4	0.62	0.50	3.50	3
SFSW-R0112	SFSX-R0112	1 ½"	5.00	0.63	2.88	2.56	0.88	1.95	0.62	4	0.62	0.50	3.88	3
SFSW-R0200	SFSX-R0200	2"	6.00	0.69	3.62	3.06	1.00	2.44	0.69	4	0.75	0.62	4.75	5
SFSW-R0212	SFSX-R0212	2 ½"	7.00	0.82	4.12	3.56	1.12	2.94	0.75	4	0.75	0.62	5.50	7
SFSW-R0300	SFSX-R0300	3"	7.50	0.88	5.00	4.25	1.19	3.57	0.81	4	0.75	0.62	6.00	8
SFSW-R0400	SFSX-R0400	4"	9.00	0.88	6.19	5.31	1.31	4.57	0.94**	8	0.75	0.62	7.50	13
SFSW-R0600	SFSX-R0600	6"	11.00	0.94	8.50	7.56	1.56	6.72	1.06**	8	0.88	0.75	9.50	19
SFSW-R0800	SFSX-R0800	8"	13.50	1.06	10.62	9.69	1.75	8.72	1.25**	8	0.88	0.75	11.75	30

Lap Joint Flange

Class 150

- Dimensions conform to ASTM A/SA-105; ASME B16.5

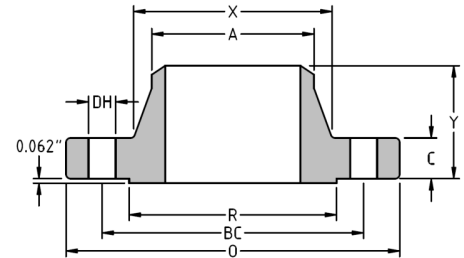


Part #	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Hub at Base (X)	Length thru Hub (Y)	Diam. of Bore (B)	Fillet Radius (r)	No. of Holes	Diam. of Holes	Diam. of Bolts	Diam. of Bolt Circle	Weight (lbs)
SFLJ-F0012	½"	3.50	0.44	1.19	0.62	0.90	0.12	4	0.62	0.50	2.38	1
SFLJ-F0034	¾"	3.88	0.50	1.50	0.62	1.11	0.12	4	0.62	0.50	2.75	2
SFLJ-F0100	1"	4.25	0.56	1.94	0.69	1.38	0.12	4	0.62	0.50	3.12	2
SFLJ-F0114	3 ¼"	4.62	0.62	2.31	0.81	1.72	0.19	4	0.62	0.50	3.50	3
SFLJ-F0112	3 ½"	5.00	0.69	2.56	0.88	1.97	0.25	4	0.62	0.50	3.88	3
SFLJ-F0200	2"	6.00	0.75	3.06	1.00	2.46	0.31	4	0.75	0.62	4.75	5
SFLJ-F0212	4 ½"	7.00	0.88	3.56	1.12	2.97	0.31	4	0.75	0.62	5.50	7
SFLJ-F0300	3"	7.50	0.94	4.25	1.19	3.60	0.38	4	0.75	0.62	6.00	8
SFLJ-F0400	4"	9.00	0.94	5.31	1.31	4.60	0.44	8	0.75	0.62	7.50	13
SFLJ-F0500	5"	10.00	0.94	6.44	1.44	5.69	0.44	8	0.88	0.75	8.50	15
SFLJ-F0600	6"	11.00	1.00	7.56	1.56	6.75	0.50	8	0.88	0.75	9.50	19
SFLJ-F0800	8"	13.50	1.12	9.69	1.75	8.75	0.50	8	0.88	0.75	11.75	30
SFLJ-F01000	10"	16.00	1.19	12.00	1.94	10.92	0.50	12	1.00	0.88	14.25	43
SFLJ-F01200	12"	19.00	1.25	14.38	2.19	12.92	0.50	12	1.00	0.88	17.00	64
SFLJ-F01400	14"	21.00	1.38	15.75	3.12	14.18	0.50	12	1.12	1.00	18.75	105
SFLJ-F01600	16"	23.50	1.44	18.00	3.44	16.19	0.50	16	1.12	1.00	21.25	140
SFLJ-F01800	18"	25.00	1.56	19.88	3.81	18.20	0.50	16	1.25	1.12	22.75	160
SFLJ-F02000	20"	27.50	1.69	22.00	4.06	20.25	0.50	20	1.25	1.12	25.00	195
SFLJ-F02400	24"	32.00	1.88	26.12	4.38	24.25	0.50	20	1.38	1.25	29.50	275

Weld Neck Flange

Class 300

- Dimensions conform to ASTM A/SA-105; ASME B16.5

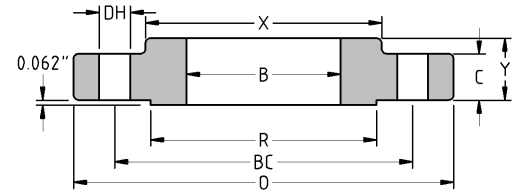


Part #	Part # XH Bore	Part # Flat Face	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Diam. of Hub at Point of Welding (A)	Length thru Hub (Y)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SXWN-R0012	SXWX-R0012		½"	3.75	0.50	1.38	1.50	0.84	2.06	4	0.62	0.50	2.62	2
SXWN-R0034	SXWX-R0034		¾"	4.62	0.56	1.69	1.88	1.05	2.25	4	0.75	0.62	3.25	3
SXWN-R0100	SXWX-R0100		1"	4.88	0.63	2.00	2.12	1.32	2.44	4	0.75	0.62	3.50	4
SXWN-R0114	SXWX-R0114		1 ¼"	5.25	0.69	2.50	2.50	1.66	2.56	4	0.75	0.62	3.88	5
SXWN-R0112	SXWX-R0112		1 ½"	6.12	0.75	2.88	2.75	1.90	2.69	4	0.88	0.75	4.50	7
SXWN-R0200	SXWX-R0200		2"	6.50	0.82	3.62	3.31	2.38	2.75	8	0.75	0.62	5.00	9
SXWN-R0212	SXWX-R0212		2 ½"	7.50	0.94	4.12	3.94	2.88	3.00	8	0.88	0.75	5.88	12
SXWN-R0300	SXWX-R0300		3"	8.25	1.06	5.00	4.62	3.50	3.12	8	0.88	0.75	6.62	15
SXWN-R0400	SXWX-R0400		4"	10.00	1.19	6.19	5.75	4.50	3.38	8	0.88	0.75	7.88	25
SXWN-R0500	SXWX-R0500		5"	11.00	1.32	7.31	7.00	5.56	3.88	8	0.88	0.75	9.25	32
SXWN-R0600	SXWX-R0600		6"	12.50	1.38	8.50	8.12	6.63	3.88	12	0.88	0.75	10.62	42
SXWN-R0800	SXWX-R0800		8"	15.00	1.56	10.62	10.25	8.63	4.38	12	1.00	0.88	13.00	67
SXWN-R01000	SXWX-R01000	SXWN-F01000	10"	17.50	1.82	12.75	12.62	10.75	4.62	16	1.12	1.00	15.25	91
SWN-R01200	SXWX-R01200		12"	20.50	1.94	15.00	14.75	12.75	5.12	16	1.25	1.12	17.75	140
SXWN-R01400			14"	23.00	2.06	16.25	16.75	14.00	5.62	20	1.25	1.12	20.25	180
SXWN-R01600			16"	25.50	2.19	18.50	19.00	16.00	5.75	20	1.38	1.25	22.50	250
SXWN-R01800			18"	28.00	2.32	21.00	21.00	18.00	6.25	24	1.38	1.25	24.75	320
SXWN-R02000			20"	30.50	2.44	23.00	23.12	20.00	6.38	24	1.38	1.25	27.00	400
SXWN-R02400	SXWX-R02400		24"	36.00	2.69	27.25	27.62	24.00	6.62	24	1.62	1.50	32.00	580

Slip-On Flange

Class 300

- Dimensions conform to ASTM A/SA-105; ASME B16.5

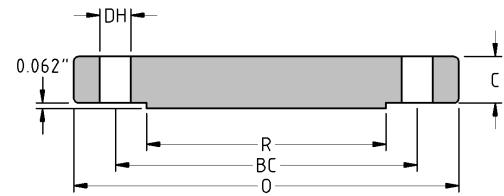


Part # Raised Face	Part # Flat Face	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Length thru Hub (Y)	Diam. of Bore (B)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SXSO-R0012		½"	3.50	0.38	1.38	1.19	0.62	0.88	4	0.62	0.50	2.38	1
SXSO-R0034		¾"	3.88	0.44	1.69	1.50	0.62	1.09	4	0.62	0.50	2.75	2
SXSO-R0100		1"	4.25	0.5	2.00	1.94	0.69	1.36	4	0.62	0.50	3.12	2
SXSO-R0114		1 ¼"	4.62	0.56	2.50	2.31	0.81	1.70	4	0.62	0.50	3.50	3
SXSO-R0112		1 ½"	5.00	0.63	2.88	2.56	0.88	1.95	4	0.62	0.50	3.88	3
SXSO-R0200		2"	6.00	0.69	3.62	3.06	1.00	2.44	4	0.75	0.62	4.75	5
SXSO-R0212		2 ½"	7.00	0.82	4.12	3.56	1.12	2.94	4	0.75	0.62	5.50	7
SXSO-R0300	SXSO-F0300	3"	7.50	0.88	5.00	4.25	1.19	3.57	4	0.75	0.62	6.00	8
SXSO-R0400		4"	9.00	0.88	6.19	5.31	1.31	4.57	8	0.75	0.62	7.50	13
SXSO-R0500		5"	10.00	0.88	7.31	6.44	1.44	5.66	8	0.88	0.75	8.50	15
SXSO-R0600		6"	11.00	0.94	8.50	7.56	1.56	6.72	8	0.88	0.75	9.50	19
SXSO-R0800		8"	13.50	1.06	10.62	9.69	1.75	8.72	8	0.88	0.75	11.75	30
SXSO-R01000		10"	16.00	1.13	12.75	12.00	1.94	10.88	12	1.00	0.88	14.25	43
SXSO-R01200		12"	19.00	1.19	15.00	14.38	2.19	12.88	12	1.00	0.88	17.00	64
SXSO-R01400		14"	21.00	1.32	16.25	15.75	2.25	14.14	12	1.12	1.00	18.75	90
SXSO-R01600		16"	23.50	1.38	18.50	18.00	2.50	16.16	16	1.12	1.00	21.25	98
SXSO-R01800		18"	25.00	1.5	21.00	19.88	2.69	18.18	16	1.25	1.12	22.75	130
SXSO-R02000		20"	27.50	1.63	23.00	22.00	2.88	20.20	20	1.25	1.12	25.00	165
SXSO-R02400		24"	32.00	1.88	27.25	26.12	3.25	24.25	20	1.38	1.25	29.50	220

Blind Flange

Class 300

- Dimensions conform to ASTM A/SA-105; ASME B16.5

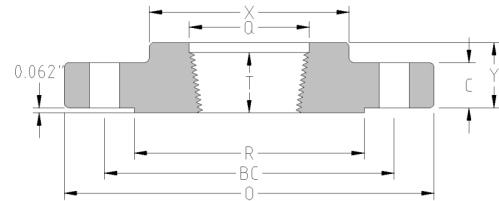


Part #	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SXBL-R0012	½"	3.75	0.50	1.38	4	0.62	0.50	2.62	2
SXBL-R0034	¾"	4.62	0.56	1.69	4	0.75	0.62	3.25	3
SXBL-R0100	1"	4.88	0.63	2.00	4	0.75	0.62	3.50	3
SXBL-R0114	1 ¼"	5.25	0.69	2.50	4	0.75	0.62	3.88	4
SXBL-R0112	1 ½"	6.12	0.75	2.88	4	0.88	0.75	4.50	6
SXBL-R0200	2"	6.50	0.82	3.62	8	0.75	0.62	5.00	8
SXBL-R0212	2 ½"	7.50	0.94	4.12	8	0.88	0.75	5.88	12
SXBL-R0300	3"	8.25	1.06	5.00	8	0.88	0.75	6.62	16
SXBL-R0400	4"	10.00	1.19	6.19	8	0.88	0.75	7.88	27
SXBL-R0500	5"	11.00	1.32	7.31	8	0.88	0.75	9.25	35
SXBL-R0600	6"	12.50	1.38	8.50	12	0.88	0.75	10.62	50
SXBL-R0800	8"	15.00	1.56	10.62	12	1.00	0.88	13.00	81
SXBL-R01000	10"	17.50	1.82	12.75	16	1.12	1.00	15.25	124
SXBL-R01200	12"	20.50	1.94	15.00	16	1.25	1.12	17.75	185
SXBL-R01400	14"	23.00	2.06	16.25	20	1.25	1.12	20.25	250
SXBL-R01600	16"	25.50	2.19	18.50	20	1.38	1.25	22.50	295
SXBL-R01800	18"	28.00	2.32	21.00	24	1.38	1.25	24.75	395
SXBL-R02000	20"	30.50	2.44	23.00	24	1.38	1.25	27.00	505
SXBL-R02400	24"	36.00	2.69	27.25	24	1.62	1.50	32.00	790

Threaded Flange

Class 300

- Dimensions conform to ASTM A/SA-105; ASME B16.5

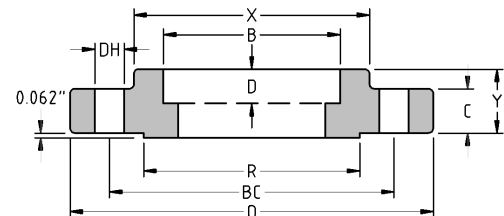


Part #	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Length thru Hub (Y)	Min. Thread Length (T)	Min. Counter Bore (Q)	No. of Holes	Diam. of Holes	Diam. of Bolts	Diam. of Bolt Circle	Weight (lbs)
SXTH-R0012	½"	3.75	0.50	1.38	1.50	0.88	0.62	0.93	4	0.62	0.50	2.62	2
SXTH-R0034	¾"	4.62	0.56	1.69	1.88	1.00	0.62	1.14	4	0.75	0.62	3.25	3
SXTH-R0100	1"	4.88	0.63	2.00	2.12	1.06	0.69	1.41	4	0.75	0.62	3.50	3
SXTH-R0114	1 ¼"	5.25	0.69	2.50	2.50	1.06	0.81	1.75	4	0.75	0.62	3.88	4
SXTH-R0112	1 ½"	6.12	0.75	2.88	2.75	1.19	0.88	1.99	4	0.88	0.75	4.50	6
SXTH-R0200	2"	6.50	0.82	3.62	3.31	1.31	1.12	2.50	8	0.75	0.62	5.00	7
SXTH-R0212	2 ½"	7.50	0.94	4.12	3.94	1.50	1.25	3.00	8	0.88	0.75	5.88	10
SXTH-R0300	3"	8.25	1.06	5.00	4.62	1.69	1.25	3.63	8	0.88	0.75	6.62	13
SXTH-R0400	4"	10.00	1.19	6.19	5.75	1.88	1.44	4.63	8	0.88	0.75	7.88	22
SXTH-R0500	5"	11.00	1.32	7.31	7.00	2.00	1.69	5.69	8	0.88	0.75	9.25	28
SXTH-R0600	6"	12.50	1.38	8.50	8.12	2.06	1.81	6.75	12	0.88	0.75	10.62	39
SXTH-R0800	8"	15.00	1.56	10.62	10.25	2.44	2.00	8.75	12	1.00	0.88	13.00	58

Socket Weld Flange

Class 300

- Dimensions conform to ASTM A/SA-105; ASME B16.5

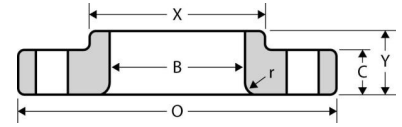


Part # Raised Face	Part # XH Bore	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Length thru Hub (Y)	Diam. of Bore (B)	Depth of Socket (D)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SXSW-R0012	SXSW-R0012	½"	3.75	0.50	1.38	1.50	0.88	0.88	0.38	4	0.62	0.50	2.62	2
SXSW-R0034	SXSW-R0034	¾"	4.62	0.56	1.69	1.88	1.00	1.09	0.44	4	0.75	0.62	3.25	3
SXSW-R0100	SXSW-R0100	1"	4.88	0.63	2.00	2.12	1.06	1.36	0.50	4	0.75	0.62	3.50	3
SXSW-R0114	SXSW-R0114	1 ¼"	5.25	0.69	2.50	2.50	1.06	1.70	0.56	4	0.75	0.62	3.88	4
SXSW-R0112	SXSW-R0112	1 ½"	6.12	0.75	2.88	2.75	1.19	1.95	0.62	4	0.88	0.75	4.50	6
SXSW-R0200	SXSW-R0200	2"	6.50	0.82	3.62	3.31	1.31	2.44	0.69	8	0.75	0.62	5.00	7
SXSW-R0300	SXSW-R0300	3"	8.25	1.06	5.00	4.62	1.69	3.57	0.81	8	0.88	0.75	6.62	13
SXSW-R0400	SXSW-R0400	4"	10.00	1.19	6.19	5.75	1.88	4.57	—	8	0.88	0.75	7.88	22

Lap Joint Flange

Class 300

- Dimensions conform to ASTM A/SA-105; ASME B16.5

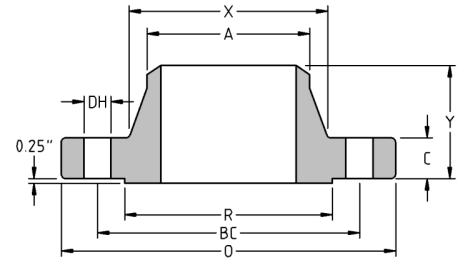


Part #	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Hub at Base (X)	Length thru Hub (Y)	Diam. of Bore (B)	Fillet Radius (r)	No. of Holes	Diam. of Holes	Diam. of Bolts	Diam. of Bolt Circle	Weight (lbs)
SXLJ-F0012	½"	3.75	0.56	1.50	0.88	0.90	0.12	4	0.62	0.50	2.62	2
SXLJ-F0034	¾"	4.62	0.62	1.88	1.00	1.11	0.12	4	0.75	0.62	3.25	3
SXLJ-F0100	1"	4.88	0.69	2.12	1.06	1.38	0.12	4	0.75	0.62	3.50	3
SXLJ-F0114	1 ¼"	5.25	0.75	2.50	1.06	1.72	0.19	4	0.75	0.62	3.88	4
SXLJ-F0112	1 ½"	6.12	0.81	2.75	1.19	1.97	0.25	4	0.88	0.75	4.50	6
SXLJ-F0200	2"	6.50	0.88	3.31	1.31	2.46	0.31	8	0.75	0.62	5.00	7
SXLJ-F0212	2 ½"	7.50	1.00	3.94	1.50	2.97	0.31	8	0.88	0.75	5.88	10
SXLJ-F0300	3"	8.25	1.12	4.62	1.69	3.60	0.38	8	0.88	0.75	6.62	13
SXLJ-F0400	4"	10.00	1.25	5.75	1.88	4.60	0.44	8	0.88	0.75	7.88	22
SXLJ-F0500	5"	11.00	1.38	7.00	2.00	5.69	0.44	8	0.88	0.75	9.25	28
SXLJ-F0600	6"	12.50	1.44	8.12	2.06	6.75	0.50	12	0.88	0.75	10.62	39
SXLJ-F0800	8"	15.00	1.62	10.25	2.44	8.75	0.50	12	1.00	0.88	13.00	58
SXLJ-F01000	10"	17.50	1.88	12.62	3.75	10.92	0.50	16	1.12	1.00	15.25	91
SXLJ-F01200	12"	20.50	2.00	14.75	4.00	12.92	0.50	16	1.25	1.12	17.75	140

Weld Neck Flange

Class 600

- Dimensions conform to ASTM A/SA-105; ASME B16.5

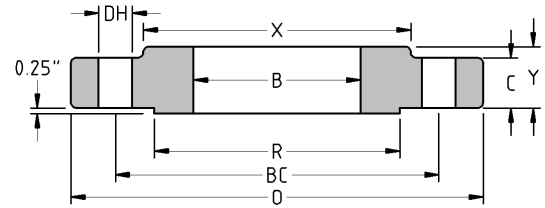


Part #	Part # XH Bore	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Diam. of Hub at Point of Welding (A)	Length thru Hub (Y)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SXXWN-R0012	SXXWX-R0012	½"	3.75	0.56	1.38	1.50	0.84	2.06	4	0.62	0.50	2.62	2
SXXWN-R0034	SXXWX-R0034	¾"	4.62	0.62	1.69	1.88	1.05	2.25	4	0.75	0.62	3.25	4
SXXWN-R0100	SXXWX-R0100	1"	4.88	0.69	2.00	2.12	1.32	2.44	4	0.75	0.62	3.50	4
SXXWN-R0114	SXXWX-R0114	1 ¼"	5.25	0.81	2.50	2.50	1.66	2.62	4	0.75	0.62	3.88	6
SXXWN-R0112	SXXWX-R0112	1 ½"	6.12	0.88	2.88	2.75	1.90	2.75	4	0.88	0.75	4.50	8
SXXWN-R0200	SXXWX-R0200	2"	6.50	1.00	3.62	3.31	2.38	2.88	8	0.75	0.62	5.00	12
SXXWN-R0212	SXXWX-R0212	2 ½"	7.50	1.12	4.12	3.94	2.88	3.12	8	0.88	0.75	5.88	18
SXXWN-R0300	SXXWX-R0300	3"	8.25	1.25	5.00	4.62	3.50	3.25	8	0.88	0.75	6.62	23
SXXWN-R0400	SXXWX-R0400	4"	10.75	1.50	6.19	6.00	4.50	4.00	8	1.00	0.88	8.50	42
SXXWN-R0600	SXXWX-R0600	6"	14.00	1.88	8.50	8.75	6.63	4.62	12	1.12	1.00	11.50	81
SXXWN-R0800	SXXWX-R0800	8"	16.50	2.19	10.62	10.75	8.63	5.25	12	1.25	1.12	13.75	120
SXXWN-R01000	SXXWX-R01000	10"	20.00	2.50	12.75	13.50	10.75	6.00	16	1.38	1.25	17.00	190
SXXWN-R01200	SXXWX-R01200	12"	22.00	2.62	15.00	15.75	12.75	6.12	20	1.38	1.25	19.25	225

Slip-On Flange

Class 600

- Dimensions conform to ASTM A/SA-105; ASME B16.5

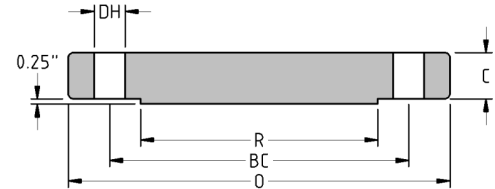


Part #	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Length thru Hub (Y)	Diam. of Bore (B)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SXXSO-R0012	½"	3.75	0.56	1.38	1.50	0.88	0.88	4	0.62	0.50	2.62	2
SXXSO-R0034	¾"	4.62	0.62	1.69	1.88	1.00	1.09	4	0.75	0.62	3.25	3
SXXSO-R0100	1"	4.88	0.69	2.00	2.12	1.06	1.36	4	0.75	0.62	3.50	4
SXXSO-R0114	1 ¼"	5.25	0.81	2.50	2.50	1.12	1.70	4	0.75	0.62	3.88	5
SXXSO-R0112	1 ½"	6.12	0.88	2.88	2.75	1.25	1.95	4	0.88	0.75	4.50	7
SXXSO-R0200	2"	6.50	1.00	3.62	3.31	1.44	2.44	8	0.75	0.62	5.00	9
SXXSO-R0212	2 ½"	7.50	1.12	4.12	3.94	1.62	2.94	8	0.88	0.75	5.88	13
SXXSO-R0300	3"	8.25	1.25	5.00	4.62	1.81	3.57	8	0.88	0.75	6.62	16
SXXSO-R0400	4"	10.75	1.50	6.19	6.00	2.12	4.57	8	1.00	0.88	8.50	37
SXXSO-R0600	6"	14.00	1.88	8.50	8.75	2.62	6.72	12	1.12	1.00	11.50	80
SXXSO-R0800	8"	16.50	2.19	10.62	10.75	3.00	8.72	12	1.25	1.12	13.75	115
SXXSO-R01000	10"	20.00	2.50	12.75	13.50	3.38	10.88	16	1.38	1.25	17.00	170
SXXSO-R01200	12"	22.00	2.62	15.00	15.75	3.62	12.88	20	1.38	1.25	19.25	200

Blind Flange

Class 600

- Dimensions conform to ASTM A/SA-105; ASME B16.5

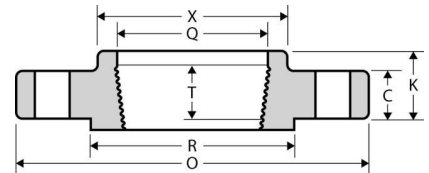


Part #	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	No. of Holes	Diam. of Holes (DH)	Diam. of Bolts	Diam. of Bolt Circle (BC)	Weight (lbs)
SXXBL-R0012	½"	3.75	0.56	1.38	4	0.62	0.50	2.62	2
SXXBL-R0034	¾"	4.62	0.62	1.69	4	0.75	0.62	3.25	3
SXXBL-R0100	1"	4.88	0.69	2.00	4	0.75	0.62	3.50	4
SXXBL-R0114	1 ¼"	5.25	0.81	2.50	4	0.75	0.62	3.88	5
SXXBL-R0112	1 ½"	6.12	0.88	2.88	4	0.88	0.75	4.50	8
SXXBL-R0200	2"	6.50	1.00	3.62	8	0.75	0.62	5.00	10
SXXBL-R0212	2 ½"	7.50	1.12	4.12	8	0.88	0.75	5.88	15
SXXBL-R0300	3"	8.25	1.25	5.00	8	0.88	0.75	6.62	20
SXXBL-R0400	4"	10.75	1.50	6.19	8	1.00	0.88	8.50	41
SXXBL-R0600	6"	14.00	1.88	8.50	12	1.12	1.00	11.50	86
SXXBL-R0800	8"	16.50	2.19	10.62	12	1.25	1.12	13.75	140
SXXBL-R01000	10"	20.00	2.50	12.75	16	1.38	1.25	17.00	230
SXXBL-R01200	12"	22.00	2.62	15.00	20	1.38	1.25	19.25	295

Threaded Flange

Class 600

- Dimensions conform to ASTM A/SA-105; ASME B16.5

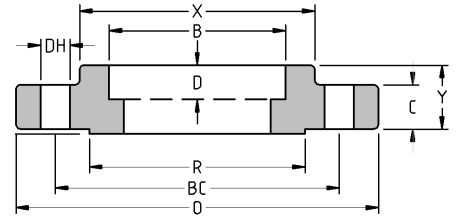


Part #	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Length thru Hub (Y)	Min. Thread Length (T)	Min. Counter Bore (Q)	No. of Holes	Diam. of Holes	Diam. of Bolts	Diam. of Bolt Circle	Weight (lbs)
SXXTH-R0012	½"	3.75	0.56	1.38	1.50	0.88	0.62	0.93	4	0.62	0.50	2.62	2
SXXTH-R0034	¾"	4.62	0.62	1.69	1.88	1.00	0.62	1.14	4	0.75	0.62	3.25	3
SXXTH-R0100	1"	4.88	0.69	2.00	2.12	1.06	0.69	1.41	4	0.75	0.62	3.50	4
SXXTH-R0114	1 ¼"	5.25	0.81	2.50	2.50	1.12	0.81	1.75	4	0.75	0.62	3.88	5
SXXTH-R0112	1 ½"	6.12	0.88	2.88	2.75	1.25	0.88	1.99	4	0.88	0.75	4.50	7
SXXTH-R0200	2"	6.50	1.00	3.62	3.31	1.44	1.12	2.50	8	0.75	0.62	5.00	9
SXXTH-R0212	2 ½"	7.50	1.12	4.12	3.94	1.62	1.25	3.00	8	0.88	0.75	5.88	13
SXXTH-R0300	3"	8.25	1.25	5.00	4.62	1.81	1.38	3.63	8	0.88	0.75	6.62	16
SXXTH-R0400	4"	10.75	1.50	6.19	6.00	2.12	1.62	4.63	8	1.00	0.88	8.50	37
SXXTH-R0600	6"	14.00	1.88	8.50	8.75	2.62	2.00	6.75	12	1.12	1.00	11.50	80

Socket Weld Flange

Class 600

- Dimensions conform to ASTM A/SA-105; ASME B16.5

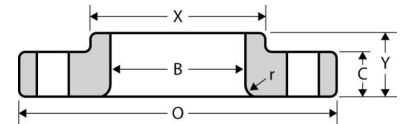


Part #	Part # XH Bore	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Raised Face (R)	Diam. of Hub at Base (X)	Length thru Hub (K)	Min. Thread Length (T)	Min. Counter Bore (Q)	No. of Holes	Diam. of Holes	Diam. of Bolts	Diam. of Bolt Circle	Weight (lbs)
SXXSW-R0012	SXXSX-R0012	½"	3.75	0.56	1.38	1.50	0.88	0.62	0.93	4	0.62	0.50	2.62	2
SXXSW-R0034	SXXSX-R0034	¾"	4.62	0.62	1.69	1.88	1.00	0.62	1.14	4	0.75	0.62	3.25	3
SXXSW-R0100	SXXSX-R0100	1"	4.88	0.69	2.00	2.12	1.06	0.69	1.41	4	0.75	0.62	3.50	4
SXXSW-R0114	SXXSX-R0114	1 ¼"	5.25	0.81	2.50	2.50	1.12	0.81	1.75	4	0.75	0.62	3.88	5
SXXSW-R0112	SXXSX-R0112	1 ½"	6.12	0.88	2.88	2.75	1.25	0.88	1.99	4	0.88	0.75	4.50	7
SXXSW-R0200	SXXSX-R0200	2"	6.50	1.00	3.62	3.31	1.44	1.12	2.50	8	0.75	0.62	5.00	9
	SXXSX-R0212	2 ½"	7.50	1.12	4.12	3.94	1.62	1.25	3.00	8	0.88	0.75	5.88	13
	SXXSX-R0300	3"	8.25	1.25	5.00	4.62	1.81	1.38	3.63	8	0.88	0.75	6.62	16

Lap Joint Flange

Class 600

- Dimensions conform to ASTM A/SA-105; ASME B16.5



Part #	Size	Outside Diam. of Flange (O)	Thick. of Flange (C)	Diam. of Hub at Base (X)	Length thru Hub (Y)	Diam. of Bore (B)	Fillet Radius (r)	No. of Holes	Diam. of Holes	Diam. of Bolts	Diam. of Bolt Circle	Weight (lbs)
SXXLJ-F0012	½"	3.75	0.56	1.50	0.88	0.90	0.12	4	0.62	0.50	2.62	2
SXXLJ-F0034	¾"	4.62	0.62	1.88	1.00	1.11	0.12	4	0.75	0.62	3.25	3
SXXLJ-F0100	1"	4.88	0.69	2.12	1.06	1.38	0.12	4	0.75	0.62	3.50	4
SXXLJ-F0114	1 ¼"	5.25	0.81	2.50	1.12	1.72	0.19	4	0.75	0.62	3.88	5
SXXLJ-F0112	1 ½"	6.12	0.88	2.75	1.25	1.97	0.25	4	0.88	0.75	4.50	7