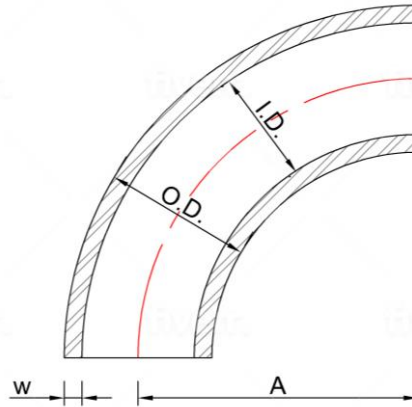


Project Name: \_\_\_\_\_  
 Job #: \_\_\_\_\_

**FITTINGS  
 A403  
 (LR90)**

**ASTM A403, B16.9**  
**90° ELBOW - LONG RADIUS**



90° LONG RADIUS ELBOWS

Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

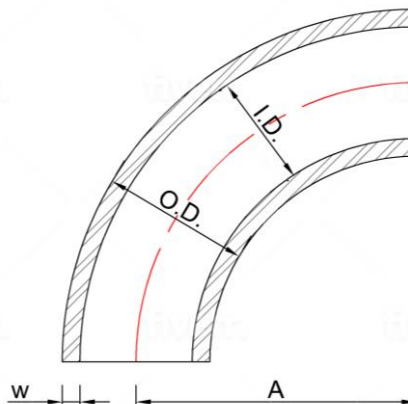
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO FACE (A)	SCHEDULE 5S <input type="checkbox"/> < SELECT			SCHEDULE 10S <input type="checkbox"/> < SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	1 ½	0.710	0.065	0.12	0.674	0.083	0.14
<input type="checkbox"/>	¾	1.050	1 ½	0.920	0.065	0.13	0.884	0.083	0.15
<input type="checkbox"/>	1	1.315	1 ½	1.185	0.065	0.19	1.097	0.109	0.30
<input type="checkbox"/>	1 ¼	1.660	1 ⅞	1.530	0.065	0.31	1.442	0.109	0.50
<input type="checkbox"/>	1 ½	1.900	2 ¼	1.770	0.065	0.38	1.682	0.109	0.69
<input type="checkbox"/>	2	2.375	3	2.245	0.065	0.64	2.157	0.109	1.13
<input type="checkbox"/>	2 ½	2.875	3 ¾	2.709	0.083	1.50	2.635	0.120	1.88
<input type="checkbox"/>	3	3.500	4 ½	3.334	0.083	2.00	3.260	0.120	2.69
<input type="checkbox"/>	3 ½	4.000	5 ¼	3.834	0.083	2.62	3.760	0.120	3.75
<input type="checkbox"/>	4	4.500	6	4.334	0.083	3.31	4.260	0.120	4.75
<input type="checkbox"/>	5	5.563	7 ½	5.345	0.109	6.50	5.295	0.134	8.00
<input type="checkbox"/>	6	6.625	9	6.407	0.109	10.00	6.357	0.134	12.00
<input type="checkbox"/>	8	8.625	12	8.407	0.109	17.30	8.329	0.148	23.50
<input type="checkbox"/>	10	10.750	15	10.482	0.134	32.00	10.420	0.165	43.00
<input type="checkbox"/>	12	12.750	18	12.438	0.156	51.00	12.390	0.180	60.00
<input type="checkbox"/>	14	14.000	21	13.688	0.156	68.00	13.624	0.188	80.00
<input type="checkbox"/>	16	16.000	24	15.670	0.165	100.00	15.624	0.188	105.00
<input type="checkbox"/>	18	18.000	27	17.670	0.165	125.00	17.624	0.188	132.00
<input type="checkbox"/>	20	20.000	30	19.624	0.188	165.00	19.564	0.218	220.00
<input type="checkbox"/>	24	24.000	36	23.564	0.218	280.00	23.500	0.250	310.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**90° ELBOW - LONG RADIUS**



90° LONG RADIUS ELBOWS

Grade:  304L  316L  \_\_\_\_\_  
Seam:  Welded  Seamless  WPWX  
Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

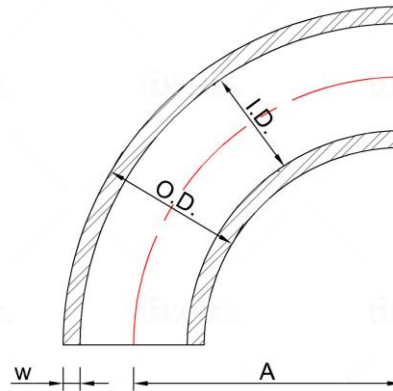
SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO FACE (A)	SCHEDULE 40S <input type="checkbox"/> < SELECT			SCHEDULE 80S <input type="checkbox"/> < SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	1 ½	0.622	0.109	0.18	0.546	0.147	0.23
<input type="checkbox"/>	¾	1.050	1 ½	0.824	0.113	0.19	0.742	0.154	0.25
<input type="checkbox"/>	1	1.315	1 ½	1.049	0.133	0.35	0.957	0.179	0.48
<input type="checkbox"/>	1 ¼	1.660	1 ⅞	1.380	0.140	0.56	1.278	0.191	0.88
<input type="checkbox"/>	1 ½	1.900	2 ¼	1.610	0.145	0.88	1.500	0.200	1.13
<input type="checkbox"/>	2	2.375	3	2.067	0.154	1.56	1.939	0.218	2.00
<input type="checkbox"/>	2 ½	2.875	3 ¾	2.469	0.203	3.00	2.323	0.276	4.00
<input type="checkbox"/>	3	3.500	4 ½	3.068	0.216	4.81	2.900	0.300	6.56
<input type="checkbox"/>	3 ½	4.000	5 ¼	3.548	0.226	6.25	3.364	0.318	8.80
<input type="checkbox"/>	4	4.500	6	4.026	0.237	9.19	3.826	0.337	13.63
<input type="checkbox"/>	5	5.563	7 ½	5.047	0.258	15.13	4.813	0.375	21.13
<input type="checkbox"/>	6	6.625	9	6.065	0.280	24.00	5.761	0.432	36.00
<input type="checkbox"/>	8	8.625	12	7.981	0.322	47.50	7.625	0.500	73.00
<input type="checkbox"/>	10	10.750	15	10.020	0.365	85.00	9.750	0.500	114.00
<input type="checkbox"/>	12	12.750	18	12.000	0.375	131.00	11.750	0.500	175.00
<input type="checkbox"/>	14	14.000	21	13.250	0.375	155.00	13.000	0.500	206.00
<input type="checkbox"/>	16	16.000	24	15.250	0.375	202.00	15.000	0.500	269.00
<input type="checkbox"/>	18	18.000	27	17.250	0.375	269.00	17.000	0.500	350.00
<input type="checkbox"/>	20	20.000	30	19.250	0.375	330.00	19.000	0.500	439.00
<input type="checkbox"/>	24	24.000	36	23.250	0.375	464.00	23.000	0.500	617.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**90° ELBOW - LONG RADIUS**



90° LONG RADIUS ELBOWS

Grade:  304L     316L     \_\_\_\_\_  
 Seam:  Welded     Seamless     WPWX  
 Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

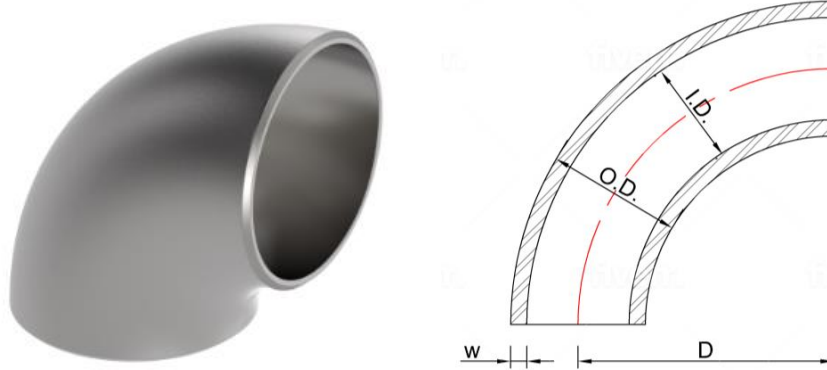
SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO FACE (A)	SCHEDULE 160S <input type="checkbox"/> < SELECT			XX STRONG WALL <input type="checkbox"/> < SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	1 ½	0.464	0.188	0.29	0.252	0.294	0.46
<input type="checkbox"/>	¾	1.050	1 ½	0.612	0.219	0.35	0.434	0.308	0.50
<input type="checkbox"/>	1	1.315	1 ½	0.815	0.250	0.67	0.599	0.358	0.96
<input type="checkbox"/>	1 ¼	1.660	1 ¾	1.160	0.250	1.15	0.896	0.382	1.76
<input type="checkbox"/>	1 ½	1.900	2 ¼	1.338	0.281	1.59	1.100	0.400	2.26
<input type="checkbox"/>	2	2.375	3	1.689	0.343	3.14	1.503	0.436	4.00
<input type="checkbox"/>	2 ½	2.875	3 ¾	2.125	0.375	5.44	1.771	0.552	8.00
<input type="checkbox"/>	3	3.500	4 ½	2.624	0.438	9.58	2.300	0.600	13.12
<input type="checkbox"/>	3 ½	4.000	5 ¼	-----	-----	-----	2.728	0.636	17.60
<input type="checkbox"/>	4	4.500	6	3.438	0.531	21.53	3.152	0.674	27.26
<input type="checkbox"/>	5	5.563	7 ½	4.313	0.625	35.29	4.063	0.750	42.26
<input type="checkbox"/>	6	6.625	9	5.187	0.719	56.76	4.897	0.864	72.00
<input type="checkbox"/>	8	8.625	12	6.813	0.906	132.00	6.875	0.875	127.00
<input type="checkbox"/>	10	10.750	15	8.500	1.125	256.00	-----	-----	-----
<input type="checkbox"/>	12	12.750	18	10.126	1.312	458.00	-----	-----	-----
<input type="checkbox"/>	14	14.000	21	11.188	1.406	-----	-----	-----	-----
<input type="checkbox"/>	16	16.000	24	12.812	1.594	-----	-----	-----	-----
<input type="checkbox"/>	18	18.000	27	14.438	1.781	-----	-----	-----	-----
<input type="checkbox"/>	20	20.000	30	16.062	1.969	-----	-----	-----	-----
<input type="checkbox"/>	24	24.000	36	19.312	2.344	-----	-----	-----	-----

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
 Job #: \_\_\_\_\_

# ASTM A403, B16.9

## 90° ELBOW – SHORT RADIUS



90° SHORT RADIUS ELBOWS

Grade:  304L     316L     \_\_\_\_\_  
 Seam:     Welded     Seamless     WPWX  
 Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

## DIMENSIONS

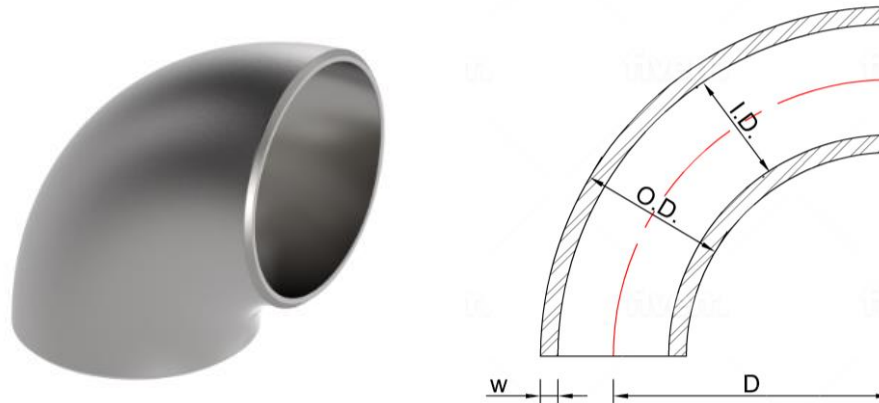
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO FACE (A)	SCHEDULE 5S <input type="checkbox"/> < SELECT			SCHEDULE 10S <input type="checkbox"/> < SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	1	1.315	1	1.185	0.065	0.17	1.097	0.109	0.23
<input type="checkbox"/>	1 ¼	1.660	1 ¼	1.530	0.065	0.31	1.442	0.109	0.38
<input type="checkbox"/>	1 ½	1.900	1 ½	1.770	0.065	0.43	1.682	0.109	0.49
<input type="checkbox"/>	2	2.375	2	2.245	0.065	0.63	2.157	0.109	0.81
<input type="checkbox"/>	2 ½	2.875	2 ½	2.709	0.083	1.25	2.635	0.120	1.36
<input type="checkbox"/>	3	3.500	3	3.334	0.083	1.75	3.260	0.120	2.17
<input type="checkbox"/>	3 ½	4.000	3 ½	3.834	0.083	2.35	3.760	0.120	3.05
<input type="checkbox"/>	4	4.500	4	4.334	0.083	3.12	4.260	0.120	3.79
<input type="checkbox"/>	5	5.563	5	5.345	0.109	4.94	5.295	0.134	6.12
<input type="checkbox"/>	6	6.625	6	6.407	0.109	7.75	6.357	0.134	9.15
<input type="checkbox"/>	8	8.625	8	8.407	0.109	15.44	8.329	0.148	17.63
<input type="checkbox"/>	10	10.750	10	10.482	0.134	27.40	10.420	0.165	35.00
<input type="checkbox"/>	12	12.750	12	12.438	0.156	35.00	12.390	0.180	40.00
<input type="checkbox"/>	14	14.000	14	13.688	0.156	44.00	13.624	0.188	52.00
<input type="checkbox"/>	16	16.000	16	15.670	0.165	65.00	15.624	0.188	68.00
<input type="checkbox"/>	18	18.000	18	17.670	0.165	81.00	17.624	0.188	86.00
<input type="checkbox"/>	20	20.000	20	19.624	0.188	107.00	19.564	0.218	143.00
<input type="checkbox"/>	24	24.000	24	23.564	0.218	182.00	23.500	0.250	202.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
 Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**90° ELBOW - SHORT RADIUS**



90° SHORT RADIUS ELBOWS

Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

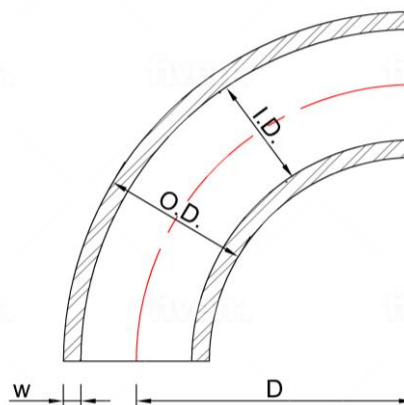
SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO FACE (A)	SCHEDULE 40S <input type="checkbox"/> <- SELECT			SCHEDULE 80S <input type="checkbox"/> <- SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	1	1.315	1	1.049	0.133	0.26	0.957	0.179	0.38
<input type="checkbox"/>	1 ¼	1.660	1 ¼	1.380	0.140	0.45	1.278	0.191	0.63
<input type="checkbox"/>	1 ½	1.900	1 ½	1.610	0.145	0.63	1.500	0.200	0.88
<input type="checkbox"/>	2	2.375	2	2.067	0.154	1.13	1.939	0.218	1.55
<input type="checkbox"/>	2 ½	2.875	2 ½	2.469	0.203	2.25	2.323	0.276	2.88
<input type="checkbox"/>	3	3.500	3	3.068	0.216	3.31	2.900	0.300	4.20
<input type="checkbox"/>	3 ½	4.000	3 ½	3.548	0.226	4.54	3.364	0.318	5.35
<input type="checkbox"/>	4	4.500	4	4.026	0.237	6.88	3.826	0.337	9.06
<input type="checkbox"/>	5	5.563	5	5.047	0.258	11.63	4.813	0.375	16.10
<input type="checkbox"/>	6	6.625	6	6.065	0.280	17.50	5.761	0.432	26.00
<input type="checkbox"/>	8	8.625	8	7.981	0.322	37.60	7.625	0.500	54.80
<input type="checkbox"/>	10	10.750	10	10.020	0.365	63.00	9.750	0.500	99.80
<input type="checkbox"/>	12	12.750	12	12.000	0.375	80.00	11.750	0.500	125.00
<input type="checkbox"/>	14	14.000	14	13.250	0.375	101.00	13.000	0.500	135.00
<input type="checkbox"/>	16	16.000	16	15.250	0.375	131.00	15.000	0.500	175.00
<input type="checkbox"/>	18	18.000	18	17.250	0.375	175.00	17.000	0.500	228.00
<input type="checkbox"/>	20	20.000	20	19.250	0.375	215.00	19.000	0.500	285.00
<input type="checkbox"/>	24	24.000	24	23.250	0.375	302.00	23.000	0.500	401.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

## ASTM A403, B16.9

### 90° ELBOW – SHORT RADIUS



90° SHORT RADIUS ELBOWS

Grade:  304L     316L     \_\_\_\_\_  
 Seam:  Welded     Seamless     WPWX  
 Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

## DIMENSIONS

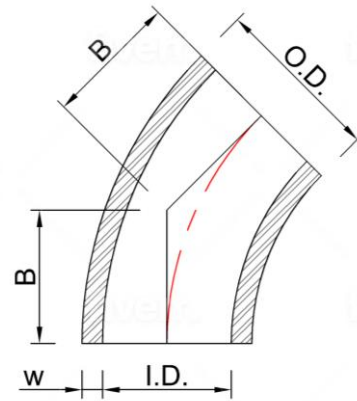
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO FACE (A)	SCHEDULE 160S <input type="checkbox"/> < SELECT			XX STRONG WALL <input type="checkbox"/> < SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	1	1.315	1	0.815	0.250	0.53	0.599	0.358	0.76
<input type="checkbox"/>	1 ¼	1.660	1 ¼	1.160	0.250	0.82	0.896	0.382	1.26
<input type="checkbox"/>	1 ½	1.900	1 ½	1.338	0.281	1.23	1.100	0.400	1.76
<input type="checkbox"/>	2	2.375	2	1.689	0.343	2.43	1.503	0.436	3.10
<input type="checkbox"/>	2 ½	2.875	2 ½	2.125	0.375	3.88	1.771	0.552	5.76
<input type="checkbox"/>	3	3.500	3	2.624	0.438	6.09	2.300	0.600	8.40
<input type="checkbox"/>	3 ½	4.000	3 ½	-----	-----	-----	2.728	0.636	10.70
<input type="checkbox"/>	4	4.500	4	3.438	0.531	14.22	3.152	0.674	18.12
<input type="checkbox"/>	5	5.563	5	4.313	0.625	26.72	4.063	0.750	32.20
<input type="checkbox"/>	6	6.625	6	5.187	0.719	43.16	4.897	0.864	52.00
<input type="checkbox"/>	8	8.625	8	6.813	0.906	99.18	6.875	0.875	109.00
<input type="checkbox"/>	10	10.750	10	8.500	1.125	224.00	-----	-----	-----
<input type="checkbox"/>	12	12.750	12	10.126	1.312	327.00	-----	-----	-----
<input type="checkbox"/>	14	14.000	14	11.188	1.406	-----	-----	-----	-----
<input type="checkbox"/>	16	16.000	16	12.812	1.594	-----	-----	-----	-----
<input type="checkbox"/>	18	18.000	18	14.438	1.781	-----	-----	-----	-----
<input type="checkbox"/>	20	20.000	20	16.062	1.969	-----	-----	-----	-----
<input type="checkbox"/>	24	24.000	24	19.312	2.344	-----	-----	-----	-----

ss wld fgt and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all fgt conform to ASME B16.9 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**45° ELBOW - LONG RADIUS**



45° LONG RADIUS ELBOWS

Grade:  304L  316L  \_\_\_\_\_  
Seam:  Welded  Seamless  WPWX  
Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

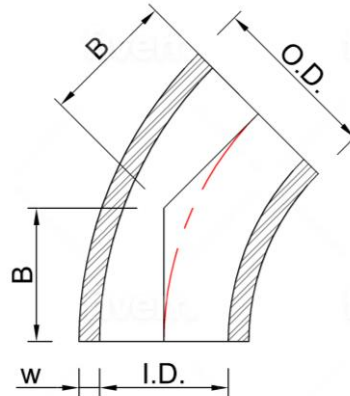
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO FACE (B)	SCHEDULE 5S <input type="checkbox"/> < SELECT			SCHEDULE 10S <input type="checkbox"/> < SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	5/8	0.710	0.065	0.06	0.674	0.083	0.07
<input type="checkbox"/>	¾	1.050	7/16	0.920	0.065	0.06	0.884	0.083	0.07
<input type="checkbox"/>	1	1.315	7/8	1.185	0.065	0.12	1.097	0.109	0.19
<input type="checkbox"/>	1 ¼	1.660	1	1.530	0.065	0.19	1.442	0.109	0.25
<input type="checkbox"/>	1 ½	1.900	1 1/8	1.770	0.065	0.25	1.682	0.109	0.38
<input type="checkbox"/>	2	2.375	1 3/8	2.245	0.065	0.31	2.157	0.109	0.56
<input type="checkbox"/>	2 ½	2.875	1 3/4	2.709	0.083	0.75	2.635	0.120	1.06
<input type="checkbox"/>	3	3.500	2	3.334	0.083	1.06	3.260	0.120	1.38
<input type="checkbox"/>	3 ½	4.000	2 1/4	3.834	0.083	1.16	3.760	0.120	1.66
<input type="checkbox"/>	4	4.500	2 1/2	4.334	0.083	1.66	4.260	0.120	2.38
<input type="checkbox"/>	5	5.563	3 1/8	5.345	0.109	3.25	5.295	0.134	4.00
<input type="checkbox"/>	6	6.625	3 3/4	6.407	0.109	5.00	6.357	0.134	6.00
<input type="checkbox"/>	8	8.625	5	8.407	0.109	8.65	8.329	0.148	11.75
<input type="checkbox"/>	10	10.750	6 1/4	10.482	0.134	16.00	10.420	0.165	21.50
<input type="checkbox"/>	12	12.750	7 1/2	12.438	0.156	25.50	12.390	0.180	30.00
<input type="checkbox"/>	14	14.000	8 3/4	13.688	0.156	34.00	13.624	0.188	40.00
<input type="checkbox"/>	16	16.000	10	15.670	0.165	50.00	15.624	0.188	52.50
<input type="checkbox"/>	18	18.000	11 1/4	17.670	0.165	62.50	17.624	0.188	66.00
<input type="checkbox"/>	20	20.000	12 1/2	19.624	0.188	82.50	19.564	0.218	110.00
<input type="checkbox"/>	24	24.000	15	23.564	0.218	140.00	23.500	0.250	155.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
 Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**45° ELBOW - LONG RADIUS**



45° LONG RADIUS ELBOWS

Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

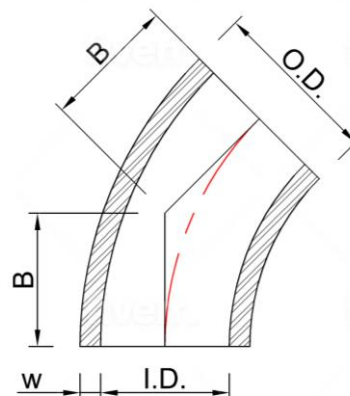
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO FACE (B)	SCHEDULE 40S <input type="checkbox"/> < SELECT			SCHEDULE 80S <input type="checkbox"/> < SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	5/8	0.622	0.109	0.09	0.546	0.147	0.12
<input type="checkbox"/>	¾	1.050	7/16	0.824	0.113	0.09	0.742	0.154	0.12
<input type="checkbox"/>	1	1.315	7/8	1.049	0.133	0.25	0.957	0.179	0.31
<input type="checkbox"/>	1 ¼	1.660	1	1.380	0.140	0.38	1.278	0.191	0.50
<input type="checkbox"/>	1 ½	1.900	1 1/8	1.610	0.145	0.50	1.500	0.200	0.63
<input type="checkbox"/>	2	2.375	1 3/8	2.067	0.154	0.88	1.939	0.218	1.13
<input type="checkbox"/>	2 ½	2.875	1 3/4	2.469	0.203	1.69	2.323	0.276	2.19
<input type="checkbox"/>	3	3.500	2	3.068	0.216	2.38	2.900	0.300	3.31
<input type="checkbox"/>	3 ½	4.000	2 1/4	3.548	0.226	3.13	3.364	0.318	4.40
<input type="checkbox"/>	4	4.500	2 1/2	4.026	0.237	4.60	3.826	0.337	6.82
<input type="checkbox"/>	5	5.563	3 1/8	5.047	0.258	7.57	4.813	0.375	10.56
<input type="checkbox"/>	6	6.625	3 3/4	6.065	0.280	12.00	5.761	0.432	18.00
<input type="checkbox"/>	8	8.625	5	7.981	0.322	23.75	7.625	0.500	36.50
<input type="checkbox"/>	10	10.750	6 1/4	10.020	0.365	42.50	9.750	0.500	57.00
<input type="checkbox"/>	12	12.750	7 1/2	12.000	0.375	65.50	11.750	0.500	87.50
<input type="checkbox"/>	14	14.000	8 3/4	13.250	0.375	77.50	13.000	0.500	103.00
<input type="checkbox"/>	16	16.000	10	15.250	0.375	101.00	15.000	0.500	134.00
<input type="checkbox"/>	18	18.000	11 1/4	17.250	0.375	131.00	17.000	0.500	175.00
<input type="checkbox"/>	20	20.000	12 1/2	19.250	0.375	165.00	19.000	0.500	219.00
<input type="checkbox"/>	24	24.000	15	23.250	0.375	232.00	23.000	0.500	308.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**45° ELBOW - LONG RADIUS**



45° LONG RADIUS ELBOWS

Grade:  304L  316L  \_\_\_\_\_  
Seam:  Welded  Seamless  WPWX  
Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO FACE (B)	SCHEDULE 160S <input type="checkbox"/> < SELECT			XX STRONG WALL <input type="checkbox"/> < SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	5/8	0.464	0.188	0.16	0.252	0.294	0.24
<input type="checkbox"/>	¾	1.050	7/16	0.612	0.219	0.16	0.434	0.308	0.24
<input type="checkbox"/>	1	1.315	7/8	0.815	0.250	0.43	0.599	0.358	0.62
<input type="checkbox"/>	1 ¼	1.660	1	1.160	0.250	0.85	0.896	0.382	1.00
<input type="checkbox"/>	1 ½	1.900	1 1/8	1.338	0.281	0.88	1.100	0.400	1.26
<input type="checkbox"/>	2	2.375	1 3/8	1.689	0.343	1.77	1.503	0.436	2.26
<input type="checkbox"/>	2 ½	2.875	1 3/4	2.125	0.375	2.95	1.771	0.552	4.38
<input type="checkbox"/>	3	3.500	2	2.624	0.438	4.80	2.300	0.600	6.62
<input type="checkbox"/>	3 ½	4.000	2 1/4	-----	-----	-----	2.728	0.636	8.80
<input type="checkbox"/>	4	4.500	2 1/2	3.438	0.531	10.87	3.152	0.674	13.64
<input type="checkbox"/>	5	5.563	3 1/8	4.313	0.625	17.52	4.063	0.750	21.12
<input type="checkbox"/>	6	6.625	3 3/4	5.187	0.719	20.88	4.897	0.864	36.00
<input type="checkbox"/>	8	8.625	5	6.813	0.906	64.24	6.875	0.875	63.87
<input type="checkbox"/>	10	10.750	6 1/4	8.500	1.125	127.00	-----	-----	-----
<input type="checkbox"/>	12	12.750	7 1/2	10.126	1.312	229.00	-----	-----	-----
<input type="checkbox"/>	14	14.000	8 3/4	11.188	1.406	-----	-----	-----	-----
<input type="checkbox"/>	16	16.000	10	12.812	1.594	-----	-----	-----	-----
<input type="checkbox"/>	18	18.000	11 1/4	14.438	1.781	-----	-----	-----	-----
<input type="checkbox"/>	20	20.000	12 1/2	16.062	1.969	-----	-----	-----	-----
<input type="checkbox"/>	24	24.000	15	19.312	2.344	-----	-----	-----	-----

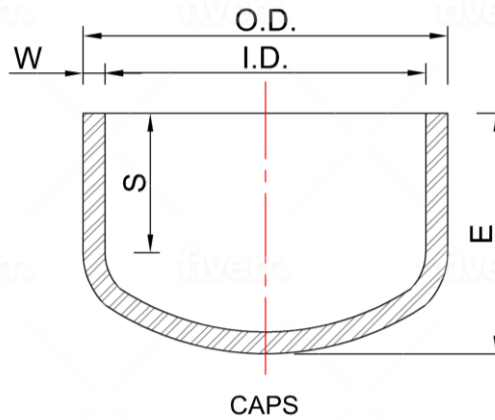
ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

**ASTM A403, B16.9**

**CAPS**



Grade:  304L     316L     \_\_\_\_\_  
 Seam:  Welded     Seamless     WPWX  
 Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	LENGTH (E)	TANGENT LENGTH (S)	SCHEDULE 5S <input type="checkbox"/> < SELECT			SCHEDULE 10S <input type="checkbox"/> < SELECT		
					Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	1	0.74	0.710	0.065	0.08	0.674	0.083	0.09
<input type="checkbox"/>	¾	1.050	1	0.68	0.920	0.065	0.11	0.884	0.083	0.12
<input type="checkbox"/>	1	1.315	1 ½	1.10	1.185	0.065	0.18	1.097	0.109	0.19
<input type="checkbox"/>	1 ¼	1.660	1 ½	1.02	1.530	0.065	0.20	1.442	0.109	0.28
<input type="checkbox"/>	1 ½	1.900	1 ½	0.95	1.770	0.065	0.22	1.682	0.109	0.31
<input type="checkbox"/>	2	2.375	1 ½	0.83	2.245	0.065	0.36	2.157	0.109	0.38
<input type="checkbox"/>	2 ½	2.875	1 ½	0.68	2.709	0.083	0.50	2.635	0.120	0.56
<input type="checkbox"/>	3	3.500	2	1.02	3.334	0.083	0.86	3.260	0.120	0.88
<input type="checkbox"/>	3 ½	4.000	2 ½	1.40	3.834	0.083	1.20	3.760	0.120	1.25
<input type="checkbox"/>	4	4.500	2 ½	1.26	4.334	0.083	1.25	4.260	0.120	1.44
<input type="checkbox"/>	5	5.563	3	1.48	5.345	0.109	2.00	5.295	0.134	2.25
<input type="checkbox"/>	6	6.625	3 ½	1.70	6.407	0.109	2.75	6.357	0.134	3.00
<input type="checkbox"/>	8	8.625	4	1.68	8.407	0.109	4.50	8.329	0.148	5.50
<input type="checkbox"/>	10	10.750	5	2.13	10.482	0.134	9.50	10.420	0.165	10.80
<input type="checkbox"/>	12	12.750	6	2.63	12.438	0.156	14.00	12.390	0.180	14.40
<input type="checkbox"/>	14	14.000	6 ½	2.81	13.688	0.156	17.00	13.624	0.188	18.00
<input type="checkbox"/>	16	16.000	7	2.81	15.670	0.165	30.00	15.624	0.188	32.00
<input type="checkbox"/>	18	18.000	8	3.31	17.670	0.165	38.00	17.624	0.188	39.60
<input type="checkbox"/>	20	20.000	9	3.81	19.624	0.188	55.00	19.564	0.218	60.00
<input type="checkbox"/>	24	24.000	10 ½	4.31	23.564	0.218	75.00	23.500	0.250	76.00

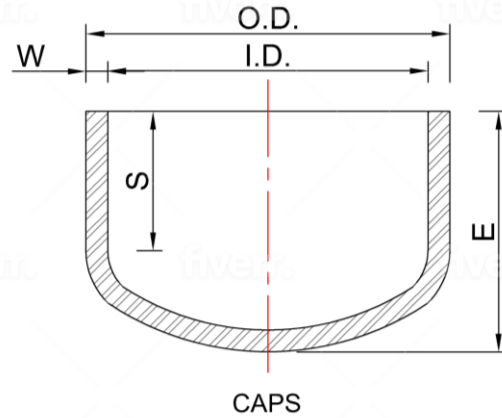
ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

**ASTM A403, B16.9**

**CAPS**



Grade:  304L     316L     \_\_\_\_\_  
 Seam:  Welded     Seamless     WPWX  
 Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

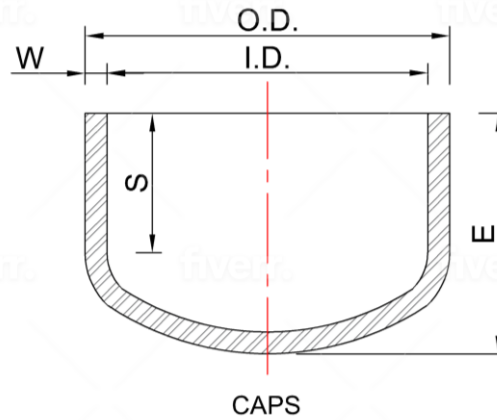
SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	LENGTH (E)	TANGENT LENGTH (S)	SCHEDULE 40S <input type="checkbox"/> <- SELECT		
					Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	1	0.74	0.622	0.109	0.10
<input type="checkbox"/>	¾	1.050	1	0.68	0.824	0.113	0.13
<input type="checkbox"/>	1	1.315	1 ½	1.10	1.049	0.133	0.28
<input type="checkbox"/>	1 ¼	1.660	1 ½	1.02	1.380	0.140	0.38
<input type="checkbox"/>	1 ½	1.900	1 ½	0.95	1.610	0.145	0.50
<input type="checkbox"/>	2	2.375	1 ½	0.83	2.067	0.154	0.60
<input type="checkbox"/>	2 ½	2.875	1 ½	0.68	2.469	0.203	1.00
<input type="checkbox"/>	3	3.500	2	1.02	3.068	0.216	1.56
<input type="checkbox"/>	3 ½	4.000	2 ½	1.40	3.548	0.226	2.25
<input type="checkbox"/>	4	4.500	2 ½	1.26	4.026	0.237	2.69
<input type="checkbox"/>	5	5.563	3	1.48	5.047	0.258	4.06
<input type="checkbox"/>	6	6.625	3 ½	1.70	6.065	0.280	7.12
<input type="checkbox"/>	8	8.625	4	1.68	7.981	0.322	12.50
<input type="checkbox"/>	10	10.750	5	2.13	10.020	0.365	20.30
<input type="checkbox"/>	12	12.750	6	2.63	12.000	0.375	28.80
<input type="checkbox"/>	14	14.000	6 ½	2.81	13.250	0.375	35.70
<input type="checkbox"/>	16	16.000	7	2.81	15.250	0.375	48.50
<input type="checkbox"/>	18	18.000	8	3.31	17.250	0.375	59.40
<input type="checkbox"/>	20	20.000	9	3.81	19.250	0.375	75.00
<input type="checkbox"/>	24	24.000	10 ½	4.31	23.250	0.375	98.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

# ASTM A403, B16.9

## CAPS



Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

### DIMENSIONS

UOM: Inches/LBS

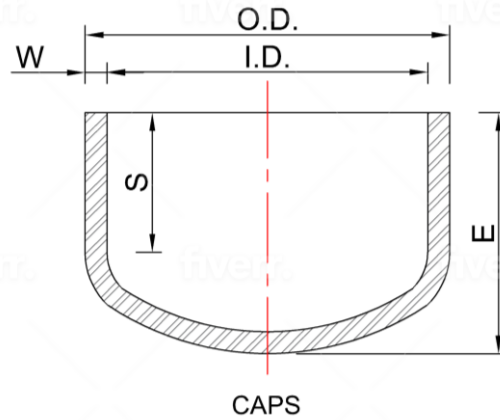
SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	LENGTH (E) TANGENT LENGTH (S)	LENGTH (E1) TANGENT LENGTH (S)	SCHEDULE 80S <input type="checkbox"/> < SELECT			SCHEDULE 160S <input type="checkbox"/> < SELECT		
					Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	1/2	0.840	E1 S 0.72	E1 S 0.64	0.546	0.147	0.11	0.464	0.188	0.14
<input type="checkbox"/>	3/4	1.050	E1 S 0.66	E1 S 0.58	0.742	0.154	0.14	0.612	0.219	0.20
<input type="checkbox"/>	1	1.315	E1 1/2 S 1.08	E1 1/2 S 0.99	0.957	0.179	0.29	0.815	0.250	0.40
<input type="checkbox"/>	1 1/4	1.660	E1 1/2 S 0.99	E1 1/2 S 0.89	1.278	0.191	0.39	1.160	0.250	0.50
<input type="checkbox"/>	1 1/2	1.900	E1 1/2 S 0.93	E1 1/2 S 0.83	1.500	0.200	0.54	1.338	0.281	0.75
<input type="checkbox"/>	2	2.375	E1 1/2 S 0.80	E1 1/4 S 0.95	1.939	0.218	0.75	1.689	0.343	1.17
<input type="checkbox"/>	2 1/2	2.875	E1 1/2 S 0.64	E1 2 S 1.01	2.323	0.276	1.12	2.125	0.375	1.48
<input type="checkbox"/>	3	3.500	E2 S 0.98	E1 2 1/2 S 1.32	2.900	0.300	1.87	2.624	0.438	2.71
<input type="checkbox"/>	3 1/2	4.000	E2 1/2 S 1.34	E1 3 S 1.70	3.364	0.318	2.50	-----	-----	-----
<input type="checkbox"/>	4	4.500	E2 1/2 S 1.21	E1 3 S 1.60	3.826	0.337	3.54	3.438	0.531	5.55
<input type="checkbox"/>	5	5.563	E3 S 1.42	E1 3 1/2 S 1.73	4.813	0.375	5.63	4.313	0.625	9.34
<input type="checkbox"/>	6	6.625	E3 1/2 S 1.63	E1 4 S 1.91	5.761	0.432	10.00	5.187	0.719	16.00
<input type="checkbox"/>	8	8.625	E4 S 1.59	E1 5 S 2.41	7.625	0.500	16.38	6.813	0.906	29.64
<input type="checkbox"/>	10	10.750	E5 S 2.06	E1 6 S 2.75	9.750	0.500	27.30	8.500	1.125	61.42
<input type="checkbox"/>	12	12.750	E6 S 2.56	E1 7 S 3.16	11.750	0.500	36.60	10.126	1.312	95.00
<input type="checkbox"/>	14	14.000	E6 1/2 S 2.75	-----	13.000	0.500	48.00	11.188	1.406	-----
<input type="checkbox"/>	16	16.000	E7 S 2.75	-----	15.000	0.500	65.00	12.812	1.594	-----
<input type="checkbox"/>	18	18.000	E8 S 3.25	-----	17.000	0.500	79.20	14.438	1.781	-----
<input type="checkbox"/>	20	20.000	E9 S 3.75	-----	19.000	0.500	88.00	16.062	1.969	-----
<input type="checkbox"/>	24	24.000	E10 1/2 S 4.25	-----	23.000	0.500	135.00	19.312	2.344	-----

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

## ASTM A403, B16.9

### CAPS



Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

## DIMENSIONS

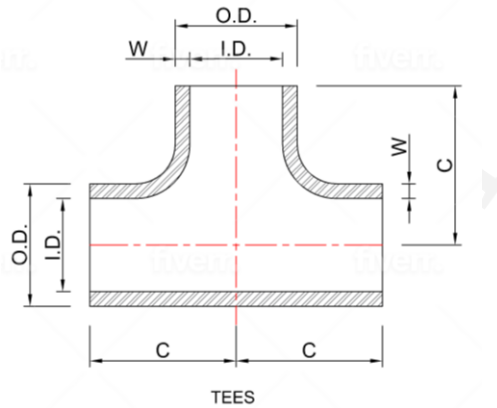
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	LENGTH (E) TANGENT LENGTH (S)	LENGTH (E1) TANGENT LENGTH (S)	XX STRONG WALL <input type="checkbox"/> <- SELECT		
					Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	1/2	0.840	E 1 S 0.72	E1 1 S 0.64	0.252	0.294	0.22
<input type="checkbox"/>	3/4	1.050	E 1 S 0.66	E1 1 S 0.58	0.434	0.308	0.28
<input type="checkbox"/>	1	1.315	E 1 1/2 S 1.08	E1 1 1/2 S 0.99	0.599	0.358	0.58
<input type="checkbox"/>	1 1/4	1.660	E 1 1/2 S 0.99	E1 1 1/2 S 0.89	0.896	0.382	0.78
<input type="checkbox"/>	1 1/2	1.900	E 1 1/2 S 0.93	E1 1 1/2 S 0.83	1.100	0.400	1.08
<input type="checkbox"/>	2	2.375	E 1 1/2 S 0.80	E1 1 3/4 S 0.95	1.503	0.436	1.50
<input type="checkbox"/>	2 1/2	2.875	E 1 1/2 S 0.64	E1 2 S 1.01	1.771	0.552	2.24
<input type="checkbox"/>	3	3.500	E 2 S 0.98	E1 2 1/2 S 1.32	2.300	0.600	3.74
<input type="checkbox"/>	3 1/2	4.000	E 2 1/2 S 1.34	E1 3 S 1.70	2.728	0.636	5.00
<input type="checkbox"/>	4	4.500	E 2 1/2 S 1.21	E1 3 S 1.60	3.152	0.674	7.08
<input type="checkbox"/>	5	5.563	E 3 S 1.42	E1 3 1/2 S 1.73	4.063	0.750	11.26
<input type="checkbox"/>	6	6.625	E 3 1/2 S 1.63	E1 4 S 1.91	4.897	0.864	20.00
<input type="checkbox"/>	8	8.625	E 4 S 1.59	E1 5 S 2.41	6.875	0.875	22.76
<input type="checkbox"/>	10	10.750	E 5 S 2.06	E1 6 S 2.75	-----	-----	-----
<input type="checkbox"/>	12	12.750	E 6 S 2.56	E1 7 S 3.16	-----	-----	-----
<input type="checkbox"/>	14	14.000	E 6 1/2 S 2.75	-----	-----	-----	-----
<input type="checkbox"/>	16	16.000	E 7 S 2.75	-----	-----	-----	-----
<input type="checkbox"/>	18	18.000	E 8 S 3.25	-----	-----	-----	-----
<input type="checkbox"/>	20	20.000	E 9 S 3.75	-----	-----	-----	-----
<input type="checkbox"/>	24	24.000	E 10 1/2 S 4.25	-----	-----	-----	-----

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**TEES**



Grade:  304L     316L     \_\_\_\_\_  
Seam:  Welded     Seamless     WPWX  
Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

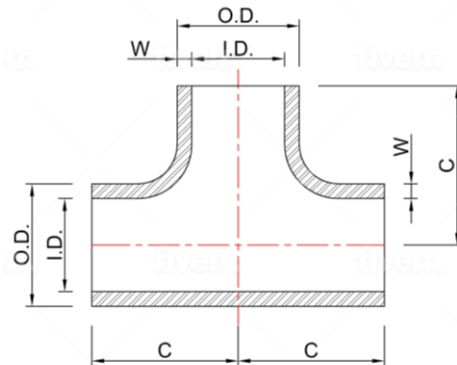
SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO END (C)	SCHEDULE 5S <input type="checkbox"/> < SELECT			SCHEDULE 10S <input type="checkbox"/> < SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	1	0.710	0.065	0.19	0.674	0.083	0.21
<input type="checkbox"/>	¾	1.050	1 ¼	0.920	0.065	0.22	0.884	0.083	0.28
<input type="checkbox"/>	1	1.315	1 ½	1.185	0.065	0.40	1.097	0.109	0.63
<input type="checkbox"/>	1 ¼	1.660	1 ¾	1.530	0.065	0.75	1.442	0.109	1.10
<input type="checkbox"/>	1 ½	1.900	2 ¼	1.770	0.065	0.95	1.682	0.109	1.50
<input type="checkbox"/>	2	2.375	2 ½	2.245	0.065	1.20	2.157	0.109	1.87
<input type="checkbox"/>	2 ½	2.875	3	2.709	0.083	2.15	2.635	0.120	3.10
<input type="checkbox"/>	3	3.500	3 ⅝	3.334	0.083	3.40	3.260	0.120	3.90
<input type="checkbox"/>	3 ½	4.000	3 ¾	3.834	0.083	5.50	3.760	0.120	5.88
<input type="checkbox"/>	4	4.500	4 ⅛	4.334	0.083	7.20	4.260	0.120	7.63
<input type="checkbox"/>	5	5.563	4 ⅞	5.345	0.109	13.00	5.295	0.134	13.45
<input type="checkbox"/>	6	6.625	5 ⅝	6.407	0.109	17.20	6.357	0.134	17.80
<input type="checkbox"/>	8	8.625	7	8.407	0.109	31.00	8.329	0.148	34.50
<input type="checkbox"/>	10	10.750	8 ½	10.482	0.134	55.00	10.420	0.165	59.00
<input type="checkbox"/>	12	12.750	10	12.438	0.156	83.00	12.390	0.180	87.00
<input type="checkbox"/>	14	14.000	11	13.688	0.156	89.00	13.624	0.188	107.00
<input type="checkbox"/>	16	16.000	12	15.670	0.165	115.00	15.624	0.188	130.00
<input type="checkbox"/>	18	18.000	13 ½	17.670	0.165	149.00	17.624	0.188	169.00
<input type="checkbox"/>	20	20.000	15	19.624	0.188	171.00	19.564	0.218	228.00
<input type="checkbox"/>	24	24.000	17	23.564	0.218	298.00	23.500	0.250	343.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

## ASTM A403, B16.9

### TEES



Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

## DIMENSIONS

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO END (C)	SCHEDULE 40S <input type="checkbox"/> < SELECT			SCHEDULE 80S <input type="checkbox"/> < SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	1	0.622	0.109	0.23	0.546	0.147	0.30
<input type="checkbox"/>	¾	1.050	1 ⅛	0.824	0.113	0.38	0.742	0.154	0.45
<input type="checkbox"/>	1	1.315	1 ½	1.049	0.133	0.65	0.957	0.179	0.85
<input type="checkbox"/>	1 ¼	1.660	1 ⅞	1.380	0.140	1.31	1.278	0.191	1.50
<input type="checkbox"/>	1 ½	1.900	2 ¼	1.610	0.145	1.90	1.500	0.200	2.25
<input type="checkbox"/>	2	2.375	2 ½	2.067	0.154	2.83	1.939	0.218	3.50
<input type="checkbox"/>	2 ½	2.875	3	2.469	0.203	4.85	2.323	0.276	6.90
<input type="checkbox"/>	3	3.500	3 ⅜	3.068	0.216	7.30	2.900	0.300	9.80
<input type="checkbox"/>	3 ½	4.000	3 ¾	3.548	0.226	9.00	3.364	0.318	12.00
<input type="checkbox"/>	4	4.500	4 ⅛	4.026	0.237	11.63	3.826	0.337	17.00
<input type="checkbox"/>	5	5.563	4 ⅞	5.047	0.258	20.75	4.813	0.375	25.00
<input type="checkbox"/>	6	6.625	5 ⅝	6.065	0.280	24.25	5.761	0.432	30.00
<input type="checkbox"/>	8	8.625	7	7.981	0.322	46.10	7.625	0.500	62.00
<input type="checkbox"/>	10	10.750	8 ½	10.020	0.365	78.00	9.750	0.500	110.00
<input type="checkbox"/>	12	12.750	10	12.000	0.375	137.00	11.750	0.500	185.00
<input type="checkbox"/>	14	14.000	11	13.250	0.375	175.00	13.000	0.500	210.00
<input type="checkbox"/>	16	16.000	12	15.250	0.375	220.00	15.000	0.500	265.00
<input type="checkbox"/>	18	18.000	13 ½	17.250	0.375	286.00	17.000	0.500	344.00
<input type="checkbox"/>	20	20.000	15	19.250	0.375	358.00	19.000	0.500	430.00
<input type="checkbox"/>	24	24.000	17	23.250	0.375	498.00	23.000	0.500	600.00

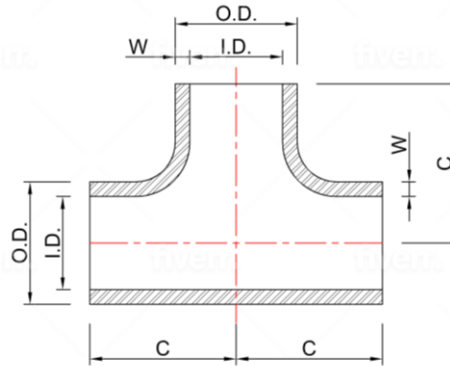
ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

# ASTM A403, B16.9

## TEES



TEES

- Grade:  304L     316L     \_\_\_\_\_  
 Seam:  Welded     Seamless     WPWX  
 Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

## DIMENSIONS

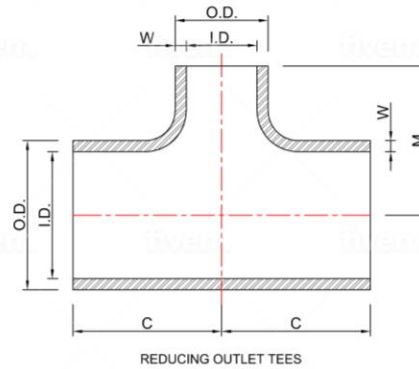
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	CENTER TO END (C)	SCHEDULE 160S <input type="checkbox"/> < SELECT			XX STRONG WALL <input type="checkbox"/> < SELECT		
				Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight	Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	1 ½	0.464	0.188	0.38	0.252	0.294	0.60
<input type="checkbox"/>	¾	1.050	1 ½	0.612	0.219	0.64	0.434	0.308	0.90
<input type="checkbox"/>	1	1.315	1 ½	0.815	0.250	1.19	0.599	0.358	1.70
<input type="checkbox"/>	1 ¼	1.660	1 ⅞	1.160	0.250	1.97	0.896	0.382	3.00
<input type="checkbox"/>	1 ½	1.900	2 ¼	1.338	0.281	3.15	1.100	0.400	4.50
<input type="checkbox"/>	2	2.375	3	1.689	0.343	5.50	1.503	0.436	7.00
<input type="checkbox"/>	2 ½	2.875	3 ¾	2.125	0.375	9.38	1.771	0.552	13.80
<input type="checkbox"/>	3	3.500	4 ½	2.624	0.438	14.31	2.300	0.600	19.60
<input type="checkbox"/>	3 ½	4.000	5 ¼	-----	-----	-----	2.728	0.636	24.00
<input type="checkbox"/>	4	4.500	6	3.438	0.531	26.86	3.152	0.674	34.00
<input type="checkbox"/>	5	5.563	7 ½	4.313	0.625	41.75	4.063	0.750	50.00
<input type="checkbox"/>	6	6.625	9	5.187	0.719	49.80	4.897	0.864	60.00
<input type="checkbox"/>	8	8.625	12	6.813	0.906	112.00	6.875	0.875	108.00
<input type="checkbox"/>	10	10.750	15	8.500	1.125	247.00	-----	-----	-----
<input type="checkbox"/>	12	12.750	18	10.126	1.312	484.00	-----	-----	-----
<input type="checkbox"/>	14	14.000	21	11.188	1.406	590.00	-----	-----	-----
<input type="checkbox"/>	16	16.000	24	12.812	1.594	812.00	-----	-----	-----
<input type="checkbox"/>	18	18.000	27	14.438	1.781	1097.00	-----	-----	-----
<input type="checkbox"/>	20	20.000	30	16.062	1.969	1690.00	-----	-----	-----
<input type="checkbox"/>	24	24.000	36	19.312	2.344	2950.00	-----	-----	-----

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

## ASTM A403, B16.9 REDUCING TEES



Grade:  304L     316L     \_\_\_\_\_  
Seam:  Welded     Seamless     WPWX  
Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

### DIMENSIONS

UOM: Inches/LBS

NOMINAL PIPE SIZE Run x Outlet		OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	SCHEDULE 5S <input type="checkbox"/> < SELECT				Approx Weight
						Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	
<input type="checkbox"/>	1/2 x 1/4	0.840	0.540	1	1	0.710	0.410	0.065	0.065	0.16
<input type="checkbox"/>	1/2 x 3/8	0.840	0.675	1	1	0.710	0.545	0.065	0.065	0.17
<input type="checkbox"/>	3/4 x 3/8	1.050	0.675	1 1/8	1 1/8	0.920	0.545	0.065	0.065	0.19
<input type="checkbox"/>	3/4 x 1/2	1.050	0.840	1 1/8	1 1/8	0.920	0.710	0.065	0.065	0.20
<input type="checkbox"/>	1 x 3/8	1.315	0.675	1 1/2	1 1/2	1.185	0.545	0.065	0.065	0.34
<input type="checkbox"/>	1 x 1/2	1.315	0.840	1 1/2	1 1/2	1.185	0.710	0.065	0.065	0.35
<input type="checkbox"/>	1 x 3/4	1.315	1.050	1 1/2	1 1/2	1.185	0.920	0.065	0.065	0.36
<input type="checkbox"/>	1 1/4 x 1/2	1.660	0.840	1 7/8	1 7/8	1.530	0.710	0.065	0.065	0.64
<input type="checkbox"/>	1 1/4 x 3/4	1.660	1.050	1 7/8	1 7/8	1.530	0.920	0.065	0.065	0.66
<input type="checkbox"/>	1 1/4 x 1	1.660	1.315	1 7/8	1 7/8	1.530	1.185	0.065	0.065	0.68
<input type="checkbox"/>	1 1/2 x 1/2	1.900	0.840	2 1/4	2 1/4	1.770	0.710	0.065	0.065	0.81
<input type="checkbox"/>	1 1/2 x 3/4	1.900	1.050	2 1/4	2 1/4	1.770	0.920	0.065	0.065	0.82
<input type="checkbox"/>	1 1/2 x 1	1.900	1.315	2 1/4	2 1/4	1.770	1.185	0.065	0.065	0.83
<input type="checkbox"/>	1 1/2 x 1 1/4	1.900	1.660	2 1/4	2 1/4	1.770	1.530	0.065	0.065	0.85
<input type="checkbox"/>	2 x 1/2	2.375	0.840	2 1/2	1 3/4	-----	-----	-----	-----	-----
<input type="checkbox"/>	2 x 3/4	2.375	1.050	2 1/2	1 3/4	2.245	0.920	0.065	0.065	1.02
<input type="checkbox"/>	2 x 1	2.375	1.315	2 1/2	2	2.245	1.185	0.065	0.065	1.03
<input type="checkbox"/>	2 x 1 1/4	2.375	1.660	2 1/2	2 1/4	2.245	1.530	0.065	0.065	1.05
<input type="checkbox"/>	2 x 1 1/2	2.375	1.900	2 1/2	2 3/8	2.245	1.770	0.065	0.065	1.08
<input type="checkbox"/>	2 1/2 x 1	2.875	1.315	3	2 1/4	2.709	1.185	0.083	0.065	1.83
<input type="checkbox"/>	2 1/2 x 1 1/4	2.875	1.660	3	2 1/2	2.709	1.530	0.083	0.065	1.85
<input type="checkbox"/>	2 1/2 x 1 1/2	2.875	1.900	3	2 5/8	2.709	1.770	0.083	0.065	1.89
<input type="checkbox"/>	2 1/2 x 2	2.875	2.375	3	2 3/4	2.709	2.245	0.083	0.065	1.93
<input type="checkbox"/>	3 x 1	3.500	1.315	3 3/8	2 5/8	3.334	1.185	0.083	0.065	2.85
<input type="checkbox"/>	3 x 1 1/4	3.500	1.660	3 3/8	2 3/4	3.334	1.530	0.083	0.065	2.89
<input type="checkbox"/>	3 x 1 1/2	3.500	1.900	3 3/8	2 7/8	3.334	1.770	0.083	0.065	2.93
<input type="checkbox"/>	3 x 2	3.500	2.375	3 3/8	3	3.334	2.245	0.083	0.065	2.99
<input type="checkbox"/>	3 x 2 1/2	3.500	2.875	3 3/8	3 1/4	3.334	2.709	0.083	0.065	3.06
<input type="checkbox"/>	3 1/2 x 1 1/2	4.000	1.900	3 3/4	3 1/8	3.834	1.770	0.083	0.065	4.67

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(= Wall) & MSS SP-43

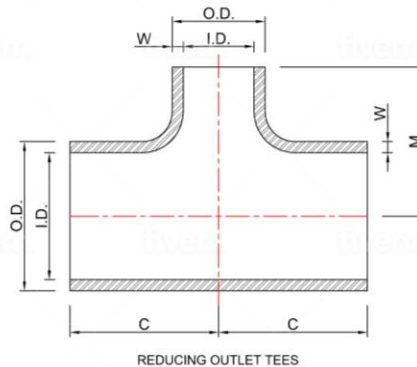
SELECT	NOMINAL PIPE SIZE Run x Outlet	OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	SCHEDULE 5S <input type="checkbox"/> <- SELECT				Approx Weight
						Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	
<input type="checkbox"/>	3 ½ x 2	4.000	2.375	3 ¾	3 ¼	3.834	2.245	0.083	0.065	4.73
<input type="checkbox"/>	3 ½ x 2 ½	4.000	2.875	3 ¾	3 ½	3.834	2.709	0.083	0.065	4.84
<input type="checkbox"/>	3 ½ x 3	4.000	3.500	3 ¾	3 ⅝	3.834	3.334	0.083	0.065	4.95
<input type="checkbox"/>	4 x 1 ½	4.500	1.900	4 ⅛	3 ⅝	4.334	1.770	0.083	0.065	6.05
<input type="checkbox"/>	4 x 2	4.500	2.375	4 ⅛	3 ½	4.334	2.245	0.083	0.065	6.12
<input type="checkbox"/>	4 x 2 ½	4.500	2.875	4 ⅛	3 ¾	4.334	2.709	0.083	0.083	6.19
<input type="checkbox"/>	4 x 3	4.500	3.500	4 ⅛	3 ⅝	4.334	3.334	0.083	0.083	6.33
<input type="checkbox"/>	4 x 3 ½	4.500	4.000	4 ⅛	4	4.334	3.834	0.083	0.083	6.48
<input type="checkbox"/>	5 x 2	5.563	2.375	4 ⅞	4 ⅛	5.345	2.245	0.109	0.065	10.92
<input type="checkbox"/>	5 x 2 ½	5.563	2.875	4 ⅞	4 ¼	5.345	2.709	0.109	0.083	11.05
<input type="checkbox"/>	5 x 3	5.563	3.500	4 ⅞	4 ⅝	5.345	3.334	0.109	0.083	11.18
<input type="checkbox"/>	5 x 3 ½	5.563	4.000	4 ⅞	4 ½	5.345	3.834	0.109	0.083	11.44
<input type="checkbox"/>	5 x 4	5.563	4.500	4 ⅞	4 ⅝	5.345	4.334	0.109	0.083	11.70
<input type="checkbox"/>	6 x 2	6.625	2.375	5 ⅝	4 ⅝	6.407	2.245	0.109	0.083	14.48
<input type="checkbox"/>	6 x 2 ½	6.625	2.875	5 ⅝	4 ¾	6.407	2.709	0.109	0.083	14.48
<input type="checkbox"/>	6 x 3	6.625	3.500	5 ⅝	4 ⅞	6.407	3.334	0.109	0.083	14.62
<input type="checkbox"/>	6 x 3 ½	6.625	4.000	5 ⅝	5	6.407	3.834	0.109	0.083	14.79
<input type="checkbox"/>	6 x 4	6.625	4.500	5 ⅝	5 ⅛	6.407	4.334	0.109	0.083	15.13
<input type="checkbox"/>	6 x 5	6.625	5.563	5 ⅝	5 ⅝	6.407	5.345	0.109	0.109	15.48
<input type="checkbox"/>	8 x 3	8.625	3.500	7	6	8.407	3.334	0.109	0.083	26.04
<input type="checkbox"/>	8 x 3 ½	8.625	4.000	7	6	8.407	3.834	0.109	0.083	26.35
<input type="checkbox"/>	8 x 4	8.625	4.500	7	6 ⅛	8.407	4.334	0.109	0.083	26.66
<input type="checkbox"/>	8 x 5	8.625	5.563	7	6 ⅝	8.407	5.345	0.109	0.109	27.28
<input type="checkbox"/>	8 x 6	8.625	6.625	7	6 ⅝	8.407	6.407	0.109	0.109	27.90
<input type="checkbox"/>	10 x 4	10.750	4.500	8 ½	7 ¼	10.482	4.334	0.134	0.083	46.75
<input type="checkbox"/>	10 x 5	10.750	5.563	8 ½	7 ½	10.482	5.345	0.134	0.109	47.30
<input type="checkbox"/>	10 x 6	10.750	6.625	8 ½	7 ⅝	10.482	6.407	0.134	0.109	48.40
<input type="checkbox"/>	10 x 8	10.750	8.625	8 ½	8	10.482	8.407	0.134	0.109	49.50
<input type="checkbox"/>	12 x 5	12.750	5.563	10	8 ½	12.438	5.345	0.156	0.109	70.55
<input type="checkbox"/>	12 x 6	12.750	6.625	10	8 ⅝	12.438	6.407	0.156	0.109	71.38
<input type="checkbox"/>	12 x 8	12.750	8.625	10	9	12.438	8.407	0.156	0.109	73.04
<input type="checkbox"/>	12 x 10	12.750	10.750	10	9 ½	12.438	10.482	0.156	0.134	74.70
<input type="checkbox"/>	14 x 6	14.000	6.625	11	9 ⅝	13.688	6.407	0.156	0.109	75.65
<input type="checkbox"/>	14 x 8	14.000	8.625	11	9 ¾	13.688	8.407	0.156	0.109	76.54
<input type="checkbox"/>	14 x 10	14.000	10.750	11	10 ⅛	13.688	10.482	0.156	0.134	78.32
<input type="checkbox"/>	14 x 12	14.000	12.750	11	10 ⅝	13.688	12.438	0.156	0.156	80.10
<input type="checkbox"/>	16 x 6	16.000	6.625	12	10 ⅝	15.670	6.407	0.165	0.109	96.60
<input type="checkbox"/>	16 x 8	16.000	8.625	12	10 ¾	15.670	8.407	0.165	0.109	97.75
<input type="checkbox"/>	16 x 10	16.000	10.750	12	11 ⅛	15.670	10.482	0.165	0.134	98.90
<input type="checkbox"/>	16 x 12	16.000	12.750	12	11 ⅝	15.670	12.438	0.165	0.156	101.00
<input type="checkbox"/>	16 x 14	16.000	14.000	12	12	15.670	13.688	0.165	0.156	103.00
<input type="checkbox"/>	18 x 8	18.000	8.625	13 ½	11 ¾	17.670	8.407	0.165	0.109	125.00
<input type="checkbox"/>	18 x 10	18.000	10.750	13 ½	12 ⅛	17.670	10.482	0.165	0.134	126.00
<input type="checkbox"/>	18 x 12	18.000	12.750	13 ½	12 ⅝	17.670	12.438	0.165	0.156	128.00
<input type="checkbox"/>	18 x 14	18.000	14.000	13 ½	13	17.670	13.688	0.165	0.156	131.00
<input type="checkbox"/>	18 x 16	18.000	16.000	13 ½	13	17.670	15.670	0.165	0.165	134.00
<input type="checkbox"/>	20 x 8	20.000	8.625	15	12 ¾	19.624	8.407	0.188	0.109	141.00
<input type="checkbox"/>	20 x 10	20.000	10.750	15	13 ⅛	19.624	10.482	0.188	0.134	143.00
<input type="checkbox"/>	20 x 12	20.000	12.750	15	13 ⅝	19.624	12.438	0.188	0.156	145.00
<input type="checkbox"/>	20 x 14	20.000	14.000	15	14	19.624	13.688	0.188	0.156	147.00
<input type="checkbox"/>	20 x 16	20.000	16.000	15	14	19.624	15.670	0.188	0.165	150.00
<input type="checkbox"/>	20 x 18	20.000	18.000	15	14 ½	19.624	17.670	0.188	0.165	154.00
<input type="checkbox"/>	24 x 10	24.000	10.750	17	15 ⅛	23.564	10.482	0.218	0.134	247.00
<input type="checkbox"/>	24 x 12	24.000	12.750	17	15 ⅝	23.564	12.438	0.218	0.156	250.00
<input type="checkbox"/>	24 x 14	24.000	14.000	17	16	23.564	13.688	0.218	0.156	253.00
<input type="checkbox"/>	24 x 16	24.000	16.000	17	16	23.564	15.670	0.218	0.165	256.00
<input type="checkbox"/>	24 x 18	24.000	18.000	17	16 ½	23.564	17.670	0.218	0.165	262.00
<input type="checkbox"/>	24 x 20	24.000	20.000	17	17	23.564	19.624	0.218	0.188	268.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43



Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**REDUCING TEES**



Grade:  304L  316L  \_\_\_\_\_  
Seam:  Welded  Seamless  WPWX  
Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE Run x Outlet	OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	SCHEDULE 10S <input type="checkbox"/> < SELECT				
						Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	Approx Weight
<input type="checkbox"/>	½ x ¼	0.840	0.540	1	1	0.674	0.410	0.083	0.065	0.18
<input type="checkbox"/>	½ x ⅜	0.840	0.675	1	1	0.674	0.545	0.083	0.065	0.19
<input type="checkbox"/>	¾ x ⅜	1.050	0.675	1 ½	1 ½	0.884	0.545	0.083	0.065	0.24
<input type="checkbox"/>	¾ x ½	1.050	0.840	1 ½	1 ½	0.884	0.674	0.083	0.083	0.25
<input type="checkbox"/>	1 x ⅜	1.315	0.675	1 ½	1 ½	1.097	0.545	0.109	0.065	0.54
<input type="checkbox"/>	1 x ½	1.315	0.840	1 ½	1 ½	1.097	0.674	0.109	0.083	0.55
<input type="checkbox"/>	1 x ¾	1.315	1.050	1 ½	1 ½	1.097	0.884	0.109	0.083	0.56
<input type="checkbox"/>	1 ¼ x ½	1.660	0.840	1 ¾	1 ¾	1.442	0.674	0.109	0.083	0.95
<input type="checkbox"/>	1 ¼ x ¾	1.660	1.050	1 ¾	1 ¾	1.442	0.884	0.109	0.083	0.97
<input type="checkbox"/>	1 ¼ x 1	1.660	1.315	1 ¾	1 ¾	1.442	1.097	0.109	0.109	0.99
<input type="checkbox"/>	1 ½ x ½	1.900	0.840	2 ¼	2 ¼	1.682	0.674	0.109	0.083	1.27
<input type="checkbox"/>	1 ½ x ¾	1.900	1.050	2 ¼	2 ¼	1.682	0.884	0.109	0.083	1.29
<input type="checkbox"/>	1 ½ x 1	1.900	1.315	2 ¼	2 ¼	1.682	1.097	0.109	0.109	1.32
<input type="checkbox"/>	1 ½ x 1 ¼	1.900	1.660	2 ¼	2 ¼	1.682	1.442	0.109	0.109	1.35
<input type="checkbox"/>	2 x ½	2.375	0.840	2 ½	1 ¾	2.157	0.674	0.109	0.083	1.12
<input type="checkbox"/>	2 x ¾	2.375	1.050	2 ½	1 ¾	2.157	0.884	0.109	0.083	1.59
<input type="checkbox"/>	2 x 1	2.375	1.315	2 ½	2	2.157	1.097	0.109	0.109	1.60
<input type="checkbox"/>	2 x 1 ¼	2.375	1.660	2 ½	2 ¼	2.157	1.442	0.109	0.109	1.64
<input type="checkbox"/>	2 x 1 ½	2.375	1.900	2 ½	2 ¾	2.157	1.682	0.109	0.109	1.68
<input type="checkbox"/>	2 ½ x 1	2.875	1.315	3	2 ¼	2.635	1.097	0.120	0.109	2.63
<input type="checkbox"/>	2 ½ x 1 ¼	2.875	1.660	3	2 ½	2.635	1.442	0.120	0.109	2.66
<input type="checkbox"/>	2 ½ x 1 ½	2.875	1.900	3	2 ¾	2.635	1.682	0.120	0.109	2.73
<input type="checkbox"/>	2 ½ x 2	2.875	2.375	3	2 ¾	2.635	2.157	0.120	0.109	2.79
<input type="checkbox"/>	3 x 1	3.500	1.315	3 ¾	2 ¾	3.260	1.097	0.120	0.109	3.27
<input type="checkbox"/>	3 x 1 ¼	3.500	1.660	3 ¾	2 ¾	3.260	1.442	0.120	0.109	3.31
<input type="checkbox"/>	3 x 1 ½	3.500	1.900	3 ¾	2 ¾	3.260	1.682	0.120	0.109	3.35
<input type="checkbox"/>	3 x 2	3.500	2.375	3 ¾	3	3.260	2.157	0.120	0.109	3.43
<input type="checkbox"/>	3 x 2 ½	3.500	2.875	3 ¾	3 ¼	3.260	2.635	0.120	0.120	3.51
<input type="checkbox"/>	3 ½ x 1 ½	4.000	1.900	3 ¾	3 ¾	3.760	1.682	0.120	0.109	4.99

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

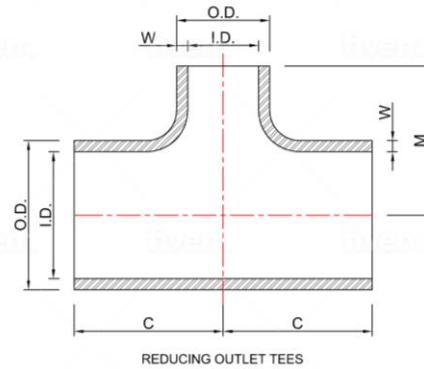
SELECT	NOMINAL PIPE SIZE Run x Outlet	OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	SCHEDULE 10S <input type="checkbox"/> <- SELECT				Approx Weight
						Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	
<input type="checkbox"/>	3 1/2 x 2	4.000	2.375	3 3/4	3 1/4	3.760	2.157	0.120	0.109	5.05
<input type="checkbox"/>	3 1/2 x 2 1/2	4.000	2.875	3 3/4	3 1/2	3.760	2.635	0.120	0.120	5.17
<input type="checkbox"/>	3 1/2 x 3	4.000	3.500	3 3/4	3 5/8	3.760	3.260	0.120	0.120	5.29
<input type="checkbox"/>	4 x 1 1/2	4.500	1.900	4 1/8	3 3/8	4.260	1.682	0.120	0.109	6.40
<input type="checkbox"/>	4 x 2	4.500	2.375	4 1/8	3 1/2	4.260	2.157	0.120	0.109	6.48
<input type="checkbox"/>	4 x 2 1/2	4.500	2.875	4 1/8	3 3/4	4.260	2.635	0.120	0.120	6.56
<input type="checkbox"/>	4 x 3	4.500	3.500	4 1/8	3 7/8	4.260	3.260	0.120	0.120	6.71
<input type="checkbox"/>	4 x 3 1/2	4.500	4.000	4 1/8	4	4.260	3.760	0.120	0.120	6.86
<input type="checkbox"/>	5 x 2	5.563	2.375	4 7/8	4 1/8	5.295	2.157	0.134	0.109	11.29
<input type="checkbox"/>	5 x 2 1/2	5.563	2.875	4 7/8	4 1/4	5.295	2.635	0.134	0.120	11.43
<input type="checkbox"/>	5 x 3	5.563	3.500	4 7/8	4 3/8	5.295	3.260	0.134	0.120	11.56
<input type="checkbox"/>	5 x 3 1/2	5.563	4.000	4 7/8	4 1/2	5.295	3.760	0.134	0.120	11.83
<input type="checkbox"/>	5 x 4	5.563	4.500	4 7/8	4 5/8	5.295	4.260	0.134	0.120	12.10
<input type="checkbox"/>	6 x 2	6.625	2.375	5 5/8	4 3/8	6.357	2.157	0.134	0.109	14.95
<input type="checkbox"/>	6 x 2 1/2	6.625	2.875	5 5/8	4 3/4	6.357	2.635	0.134	0.120	14.95
<input type="checkbox"/>	6 x 3	6.625	3.500	5 5/8	4 7/8	6.357	3.260	0.134	0.120	15.13
<input type="checkbox"/>	6 x 3 1/2	6.625	4.000	5 5/8	5	6.357	3.760	0.134	0.120	15.31
<input type="checkbox"/>	6 x 4	6.625	4.500	5 5/8	5 1/8	6.357	4.260	0.134	0.120	15.66
<input type="checkbox"/>	6 x 5	6.625	5.563	5 5/8	5 3/8	6.357	5.295	0.134	0.134	16.02
<input type="checkbox"/>	8 x 3	8.625	3.500	7	6	8.329	3.260	0.148	0.120	29.00
<input type="checkbox"/>	8 x 3 1/2	8.625	4.000	7	6	8.329	3.760	0.148	0.120	29.32
<input type="checkbox"/>	8 x 4	8.625	4.500	7	6 1/8	8.329	4.260	0.148	0.120	29.67
<input type="checkbox"/>	8 x 5	8.625	5.563	7	6 3/8	8.329	5.295	0.148	0.134	30.36
<input type="checkbox"/>	8 x 6	8.625	6.625	7	6 5/8	8.329	6.357	0.148	0.134	31.05
<input type="checkbox"/>	10 x 4	10.750	4.500	8 1/2	7 3/4	10.420	4.260	0.165	0.120	50.15
<input type="checkbox"/>	10 x 5	10.750	5.563	8 1/2	7 1/2	10.420	5.295	0.165	0.134	50.74
<input type="checkbox"/>	10 x 6	10.750	6.625	8 1/2	7 5/8	10.420	6.357	0.165	0.134	51.92
<input type="checkbox"/>	10 x 8	10.750	8.625	8 1/2	8	10.420	8.329	0.165	0.148	53.10
<input type="checkbox"/>	12 x 5	12.750	5.563	10	8 1/2	12.390	5.295	0.180	0.134	73.95
<input type="checkbox"/>	12 x 6	12.750	6.625	10	8 5/8	12.390	6.357	0.180	0.134	74.82
<input type="checkbox"/>	12 x 8	12.750	8.625	10	9	12.390	8.329	0.180	0.148	76.56
<input type="checkbox"/>	12 x 10	12.750	10.750	10	9 1/2	12.390	10.420	0.180	0.165	78.30
<input type="checkbox"/>	14 x 6	14.000	6.625	11	9 3/8	13.624	6.357	0.188	0.134	90.95
<input type="checkbox"/>	14 x 8	14.000	8.625	11	9 3/4	13.624	8.329	0.188	0.148	92.02
<input type="checkbox"/>	14 x 10	14.000	10.750	11	10 1/8	13.624	10.420	0.188	0.165	94.16
<input type="checkbox"/>	14 x 12	14.000	12.750	11	10 3/8	13.624	12.390	0.188	0.180	96.30
<input type="checkbox"/>	16 x 6	16.000	6.625	12	10 3/8	15.624	6.357	0.188	0.134	109.00
<input type="checkbox"/>	16 x 8	16.000	8.625	12	10 3/4	15.624	8.329	0.188	0.148	110.00
<input type="checkbox"/>	16 x 10	16.000	10.750	12	11 1/8	15.624	10.420	0.188	0.165	112.00
<input type="checkbox"/>	16 x 12	16.000	12.750	12	11 3/8	15.624	12.390	0.188	0.180	114.00
<input type="checkbox"/>	16 x 14	16.000	14.000	12	12	15.624	13.624	0.188	0.188	117.00
<input type="checkbox"/>	18 x 8	18.000	8.625	13 1/2	11 3/4	17.624	8.329	0.188	0.148	142.00
<input type="checkbox"/>	18 x 10	18.000	10.750	13 1/2	12 1/8	17.624	10.420	0.188	0.165	143.00
<input type="checkbox"/>	18 x 12	18.000	12.750	13 1/2	12 3/8	17.624	12.390	0.188	0.180	145.00
<input type="checkbox"/>	18 x 14	18.000	14.000	13 1/2	13	17.624	13.624	0.188	0.188	148.00
<input type="checkbox"/>	18 x 16	18.000	16.000	13 1/2	13	17.624	15.624	0.188	0.188	152.00
<input type="checkbox"/>	20 x 8	20.000	8.625	15	12 3/4	19.564	8.329	0.218	0.148	189.00
<input type="checkbox"/>	20 x 10	20.000	10.750	15	13 1/8	19.564	10.420	0.218	0.165	191.00
<input type="checkbox"/>	20 x 12	20.000	12.750	15	13 3/8	19.564	12.390	0.218	0.180	193.00
<input type="checkbox"/>	20 x 14	20.000	14.000	15	14	19.564	13.624	0.218	0.188	196.00
<input type="checkbox"/>	20 x 16	20.000	16.000	15	14	19.564	15.624	0.218	0.188	200.00
<input type="checkbox"/>	20 x 18	20.000	18.000	15	14 1/2	19.564	17.624	0.218	0.188	205.00
<input type="checkbox"/>	24 x 10	24.000	10.750	17	15 1/8	23.500	10.420	0.250	0.165	284.00
<input type="checkbox"/>	24 x 12	24.000	12.750	17	15 3/8	23.500	12.390	0.250	0.180	288.00
<input type="checkbox"/>	24 x 14	24.000	14.000	17	16	23.500	13.624	0.250	0.188	291.00
<input type="checkbox"/>	24 x 16	24.000	16.000	17	16	23.500	15.624	0.250	0.188	295.00
<input type="checkbox"/>	24 x 18	24.000	18.000	17	16 1/2	23.500	17.624	0.250	0.188	302.00
<input type="checkbox"/>	24 x 20	24.000	20.000	17	17	23.500	19.564	0.250	0.218	308.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(= Wall) & MSS SP-43

Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**REDUCING TEES**



Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE Run x Outlet	OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	SCHEDULE 40S <input type="checkbox"/> < SELECT				Approx Weight
						Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	
<input type="checkbox"/>	½ x ¼	0.840	0.540	1	1	0.622	0.364	0.109	0.088	0.20
<input type="checkbox"/>	½ x ⅜	0.840	0.675	1	1	0.622	0.493	0.109	0.091	0.21
<input type="checkbox"/>	¾ x ⅜	1.050	0.675	1 ½	1 ½	0.824	0.493	0.113	0.091	0.32
<input type="checkbox"/>	¾ x ½	1.050	0.840	1 ½	1 ½	0.824	0.622	0.113	0.109	0.34
<input type="checkbox"/>	1 x ⅜	1.315	0.675	1 ½	1 ½	1.049	0.493	0.133	0.091	0.56
<input type="checkbox"/>	1 x ½	1.315	0.840	1 ½	1 ½	1.049	0.622	0.133	0.109	0.57
<input type="checkbox"/>	1 x ¾	1.315	1.050	1 ½	1 ½	1.049	0.824	0.133	0.113	0.59
<input type="checkbox"/>	1 ¼ x ½	1.660	0.840	1 ¾	1 ¾	1.380	0.622	0.140	0.109	.12
<input type="checkbox"/>	1 ¼ x ¾	1.660	1.050	1 ¾	1 ¾	1.380	0.824	0.140	0.113	1.15
<input type="checkbox"/>	1 ¼ x 1	1.660	1.315	1 ¾	1 ¾	1.380	1.049	0.140	0.133	1.7
<input type="checkbox"/>	1 ½ x ½	1.900	0.840	2 ¼	2 ¼	1.610	0.622	0.145	0.109	1.61
<input type="checkbox"/>	1 ½ x ¾	1.900	1.050	2 ¼	2 ¼	1.610	0.824	0.145	0.113	1.63
<input type="checkbox"/>	1 ½ x 1	1.900	1.315	2 ¼	2 ¼	1.610	1.049	0.145	0.133	1.67
<input type="checkbox"/>	1 ½ x 1 ¼	1.900	1.660	2 ¼	2 ¼	1.610	1.380	0.145	0.140	1.71
<input type="checkbox"/>	2 x ½	2.375	0.840	2 ½	1 ¾	2.067	0.622	0.154	0.109	1.68
<input type="checkbox"/>	2 x ¾	2.375	1.050	2 ½	1 ¾	2.067	0.824	0.154	0.113	2.40
<input type="checkbox"/>	2 x 1	2.375	1.315	2 ½	2	2.067	1.049	0.154	0.133	2.43
<input type="checkbox"/>	2 x 1 ¼	2.375	1.660	2 ½	2 ¼	2.067	1.380	0.154	0.140	2.46
<input type="checkbox"/>	2 x 1 ½	2.375	1.900	2 ½	2 ¾	2.067	1.610	0.154	0.145	2.54
<input type="checkbox"/>	2 ½ x 1	2.875	1.315	3	2 ¼	2.469	1.049	0.203	0.133	4.12
<input type="checkbox"/>	2 ½ x 1 ¼	2.875	1.660	3	2 ½	2.469	1.380	0.203	0.140	4.17
<input type="checkbox"/>	2 ½ x 1 ½	2.875	1.900	3	2 ¾	2.469	1.610	0.203	0.145	4.27
<input type="checkbox"/>	2 ½ x 2	2.875	2.375	3	2 ¾	2.469	2.067	0.203	0.154	4.36
<input type="checkbox"/>	3 x 1	3.500	1.315	3 ¾	2 ¾	3.068	1.049	0.216	0.133	6.13
<input type="checkbox"/>	3 x 1 ¼	3.500	1.660	3 ¾	2 ¾	3.068	1.380	0.216	0.140	6.20
<input type="checkbox"/>	3 x 1 ½	3.500	1.900	3 ¾	2 ¾	3.068	1.610	0.216	0.145	6.28
<input type="checkbox"/>	3 x 2	3.500	2.375	3 ¾	3	3.068	2.067	0.216	0.154	6.42
<input type="checkbox"/>	3 x 2 ½	3.500	2.875	3 ¾	3 ¼	3.068	2.469	0.216	0.203	6.57
<input type="checkbox"/>	3 ½ x 1 ½	4.000	1.900	3 ¾	3 ¾	3.548	1.610	0.226	0.145	7.65

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

SELECT	NOMINAL PIPE SIZE Run x Outlet	OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	SCHEDULE 40S <input type="checkbox"/> < SELECT				
						Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	Approx Weight
<input type="checkbox"/>	3 1/2 x 2	4.000	2.375	3 3/4	3 3/4	3.548	2.067	0.226	0.154	7.74
<input type="checkbox"/>	3 1/2 x 2 1/2	4.000	2.875	3 3/4	3 1/2	3.548	2.469	0.226	0.203	8.97
<input type="checkbox"/>	3 1/2 x 3	4.000	3.500	3 3/4	3 3/8	3.548	3.068	0.226	0.216	9.10
<input type="checkbox"/>	4 x 1 1/2	4.500	1.900	4 1/8	3 3/8	4.026	1.610	0.237	0.145	9.76
<input type="checkbox"/>	4 x 2	4.500	2.375	4 1/8	3 1/2	4.026	2.067	0.237	0.154	9.88
<input type="checkbox"/>	4 x 2 1/2	4.500	2.875	4 1/8	3 3/4	4.026	2.469	0.237	0.203	10.00
<input type="checkbox"/>	4 x 3	4.500	3.500	4 1/8	3 3/8	4.026	3.068	0.237	0.216	10.23
<input type="checkbox"/>	4 x 3 1/2	4.500	4.000	4 1/8	4	4.026	3.548	0.237	0.226	10.40
<input type="checkbox"/>	5 x 2	5.563	2.375	4 7/8	4 1/8	5.047	2.067	0.258	0.154	17.43
<input type="checkbox"/>	5 x 2 1/2	5.563	2.875	4 7/8	4 1/4	5.047	2.469	0.258	0.203	17.63
<input type="checkbox"/>	5 x 3	5.563	3.500	4 7/8	4 3/8	5.047	3.068	0.258	0.216	17.84
<input type="checkbox"/>	5 x 3 1/2	5.563	4.000	4 7/8	4 1/2	5.047	3.548	0.258	0.226	18.26
<input type="checkbox"/>	5 x 4	5.563	4.500	4 7/8	4 3/8	5.047	4.026	0.258	0.237	18.67
<input type="checkbox"/>	6 x 2	6.625	2.375	5 3/8	4 3/8	6.065	2.067	0.280	0.154	20.37
<input type="checkbox"/>	6 x 2 1/2	6.625	2.875	5 3/8	4 3/4	6.065	2.469	0.280	0.203	20.37
<input type="checkbox"/>	6 x 3	6.625	3.500	5 3/8	4 7/8	6.065	3.068	0.280	0.216	26.32
<input type="checkbox"/>	6 x 3 1/2	6.625	4.000	5 3/8	5	6.065	3.548	0.280	0.226	20.85
<input type="checkbox"/>	6 x 4	6.625	4.500	5 3/8	5 1/8	6.065	4.026	0.280	0.237	21.34
<input type="checkbox"/>	6 x 5	6.625	5.563	5 3/8	5 3/8	6.065	5.047	0.280	0.258	21.82
<input type="checkbox"/>	8 x 3	8.625	3.500	7	6	7.981	3.068	0.322	0.216	38.72
<input type="checkbox"/>	8 x 3 1/2	8.625	4.000	7	6	7.981	3.548	0.322	0.226	39.18
<input type="checkbox"/>	8 x 4	8.625	4.500	7	6 1/8	7.981	4.026	0.322	0.237	39.64
<input type="checkbox"/>	8 x 5	8.625	5.563	7	6 3/8	7.981	5.047	0.322	0.258	40.56
<input type="checkbox"/>	8 x 6	8.625	6.625	7	6 3/8	7.981	6.065	0.322	0.280	41.49
<input type="checkbox"/>	10 x 4	10.750	4.500	8 1/2	7 1/4	10.020	4.026	0.365	0.237	66.30
<input type="checkbox"/>	10 x 5	10.750	5.563	8 1/2	7 1/2	10.020	5.047	0.365	0.258	67.80
<input type="checkbox"/>	10 x 6	10.750	6.625	8 1/2	7 3/8	10.020	6.065	0.365	0.280	68.64
<input type="checkbox"/>	10 x 8	10.750	8.625	8 1/2	8	10.020	7.981	0.365	0.322	70.20
<input type="checkbox"/>	12 x 5	12.750	5.563	10	8 1/2	12.000	5.047	0.375	0.258	116.00
<input type="checkbox"/>	12 x 6	12.750	6.625	10	8 3/8	12.000	6.065	0.375	0.280	118.00
<input type="checkbox"/>	12 x 8	12.750	8.625	10	9	12.000	7.981	0.375	0.322	120.00
<input type="checkbox"/>	12 x 10	12.750	10.750	10	9 1/2	12.000	10.020	0.375	0.365	123.00
<input type="checkbox"/>	14 x 6	14.000	6.625	11	9 3/8	13.250	6.065	0.375	0.280	148.00
<input type="checkbox"/>	14 x 8	14.000	8.625	11	9 3/4	13.250	7.981	0.375	0.322	150.00
<input type="checkbox"/>	14 x 10	14.000	10.750	11	10 1/8	13.250	10.020	0.375	0.365	154.00
<input type="checkbox"/>	14 x 12	14.000	12.750	11	10 3/8	13.250	12.000	0.375	0.375	157.00
<input type="checkbox"/>	16 x 6	16.000	6.625	12	10 3/8	15.250	6.065	0.375	0.280	184.00
<input type="checkbox"/>	16 x 8	16.000	8.625	12	10 3/4	15.250	7.981	0.375	0.322	187.00
<input type="checkbox"/>	16 x 10	16.000	10.750	12	11 1/8	15.250	10.020	0.375	0.365	189.00
<input type="checkbox"/>	16 x 12	16.000	12.750	12	11 3/8	15.250	12.000	0.375	0.375	193.00
<input type="checkbox"/>	16 x 14	16.000	14.000	12	12	15.250	13.250	0.375	0.375	198.00
<input type="checkbox"/>	18 x 8	18.000	8.625	13 1/2	11 3/4	17.250	7.981	0.375	0.322	240.00
<input type="checkbox"/>	18 x 10	18.000	10.750	13 1/2	12 1/8	17.250	10.020	0.375	0.365	243.00
<input type="checkbox"/>	18 x 12	18.000	12.750	13 1/2	12 3/8	17.250	12.000	0.375	0.375	246.00
<input type="checkbox"/>	18 x 14	18.000	14.000	13 1/2	13	17.250	13.250	0.375	0.375	251.00
<input type="checkbox"/>	18 x 16	18.000	16.000	13 1/2	13	17.250	15.250	0.375	0.375	257.00
<input type="checkbox"/>	20 x 8	20.000	8.625	15	12 3/4	19.250	7.981	0.375	0.322	297.00
<input type="checkbox"/>	20 x 10	20.000	10.750	15	13 1/8	19.250	10.020	0.375	0.365	300.00
<input type="checkbox"/>	20 x 12	20.000	12.750	15	13 3/8	19.250	12.000	0.375	0.375	304.00
<input type="checkbox"/>	20 x 14	20.000	14.000	15	14	19.250	13.250	0.375	0.375	308.00
<input type="checkbox"/>	20 x 16	20.000	16.000	15	14	19.250	15.250	0.375	0.375	315.00
<input type="checkbox"/>	20 x 18	20.000	18.000	15	14 1/2	19.250	17.250	0.375	0.375	322.00
<input type="checkbox"/>	24 x 10	24.000	10.750	17	15 1/8	23.250	10.020	0.375	0.375	413.00
<input type="checkbox"/>	24 x 12	24.000	12.750	17	15 3/8	23.250	12.000	0.375	0.375	418.00
<input type="checkbox"/>	24 x 14	24.000	14.000	17	16	23.250	13.250	0.375	0.375	423.00
<input type="checkbox"/>	24 x 16	24.000	16.000	17	16	23.250	15.250	0.375	0.375	428.00
<input type="checkbox"/>	24 x 18	24.000	18.000	17	16 1/2	23.250	17.250	0.375	0.375	438.00
<input type="checkbox"/>	24 x 20	24.000	20.000	17	17	23.250	19.250	0.375	0.375	448.00

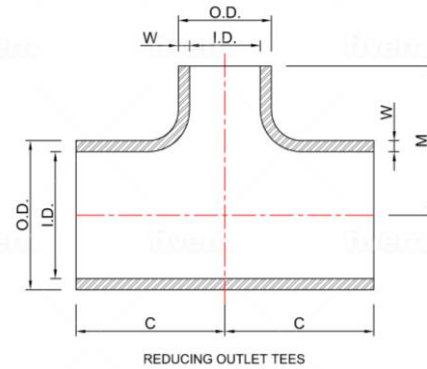
ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

**ASTM A403, B16.9**

**REDUCING TEES**



Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE Run x Outlet	OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	SCHEDULE 80S <input type="checkbox"/> < SELECT				
						Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	Approx Weight
<input type="checkbox"/>	½ x ¼	0.840	0.540	1	1	0.546	0.302	0.147	0.119	0.25
<input type="checkbox"/>	½ x ⅜	0.840	0.675	1	1	0.546	0.423	0.147	0.126	0.27
<input type="checkbox"/>	¾ x ⅜	1.050	0.675	1 ⅞	1 ⅞	0.742	0.423	0.154	0.126	0.38
<input type="checkbox"/>	¾ x ½	1.050	0.840	1 ⅞	1 ⅞	0.742	0.546	0.154	0.147	0.40
<input type="checkbox"/>	1 x ⅜	1.315	0.675	1 ½	1 ½	0.957	0.423	0.179	0.126	0.73
<input type="checkbox"/>	1 x ½	1.315	0.840	1 ½	1 ½	0.957	0.546	0.179	0.147	0.75
<input type="checkbox"/>	1 x ¾	1.315	1.050	1 ½	1 ½	0.957	0.742	0.179	0.154	0.76
<input type="checkbox"/>	1 ¼ x ½	1.660	0.840	1 ⅞	1 ⅞	1.278	0.546	0.191	0.147	1.29
<input type="checkbox"/>	1 ¼ x ¾	1.660	1.050	1 ⅞	1 ⅞	1.278	0.742	0.191	0.154	1.32
<input type="checkbox"/>	1 ¼ x 1	1.660	1.315	1 ⅞	1 ⅞	1.278	0.957	0.191	0.179	1.35
<input type="checkbox"/>	1 ½ x ½	1.900	0.840	2 ¼	2 ¼	1.500	0.546	0.200	0.147	1.91
<input type="checkbox"/>	1 ½ x ¾	1.900	1.050	2 ¼	2 ¼	1.500	0.742	0.200	0.154	1.93
<input type="checkbox"/>	1 ½ x 1	1.900	1.315	2 ¼	2 ¼	1.500	0.957	0.200	0.179	1.98
<input type="checkbox"/>	1 ½ x 1 ¼	1.900	1.660	2 ¼	2 ¼	1.500	1.278	0.200	0.191	2.02
<input type="checkbox"/>	2 x ¾	2.375	1.050	2 ½	1 ¾	1.939	0.742	0.218	0.154	2.97
<input type="checkbox"/>	2 x 1	2.375	1.315	2 ½	2	1.939	0.957	0.218	0.179	3.01
<input type="checkbox"/>	2 x 1 ¼	2.375	1.660	2 ½	2 ¼	1.939	1.278	0.218	0.191	3.08
<input type="checkbox"/>	2 x 1 ½	2.375	1.900	2 ½	2 ¾	1.939	1.500	0.218	0.200	3.15
<input type="checkbox"/>	2 ½ x 1	2.875	1.315	3	2 ¼	2.323	0.957	0.276	0.179	5.86
<input type="checkbox"/>	2 ½ x 1 ¼	2.875	1.660	3	2 ½	2.323	1.278	0.276	0.191	5.93
<input type="checkbox"/>	2 ½ x 1 ½	2.875	1.900	3	2 ¾	2.323	1.500	0.276	0.200	6.07
<input type="checkbox"/>	2 ½ x 2	2.875	2.375	3	2 ¾	2.323	1.939	0.276	0.218	6.21
<input type="checkbox"/>	3 x 1	3.500	1.315	3 ¾	2 ¾	2.900	0.957	0.300	0.179	8.23
<input type="checkbox"/>	3 x 1 ¼	3.500	1.660	3 ¾	2 ¾	2.900	1.278	0.300	0.191	8.33
<input type="checkbox"/>	3 x 1 ½	3.500	1.900	3 ¾	2 ¾	2.900	1.500	0.300	0.200	8.43
<input type="checkbox"/>	3 x 2	3.500	2.375	3 ¾	3	2.900	1.939	0.300	0.218	8.62
<input type="checkbox"/>	3 x 2 ½	3.500	2.875	3 ¾	3 ¼	2.900	2.323	0.300	0.276	8.82
<input type="checkbox"/>	3 ½ x 1 ½	4.000	1.900	3 ¾	3 ¾	3.364	1.500	0.318	0.200	10.20
<input type="checkbox"/>	3 ½ x 2	4.000	2.375	3 ¾	3 ¾	3.364	1.939	0.318	0.218	10.32

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
 Job #: \_\_\_\_\_

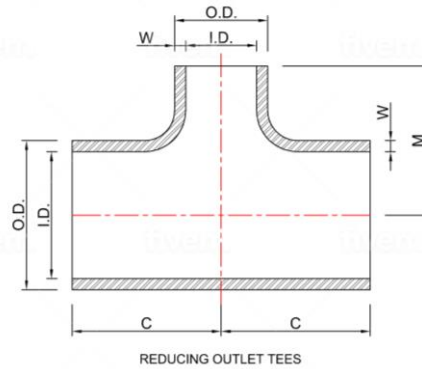
SELECT		NOMINAL PIPE SIZE Run x Outlet	OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	SCHEDULE 80S <input type="checkbox"/> < SELECT				Approx Weight
							Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	
<input type="checkbox"/>	<input type="checkbox"/>	3 1/2 x 2 1/2	4.000	2.875	3 3/4	3 1/2	3.364	2.323	0.318	0.276	10.56
<input type="checkbox"/>	<input type="checkbox"/>	3 1/2 x 3	4.000	3.500	3 3/4	3 5/8	3.364	2.900	0.318	0.300	10.80
<input type="checkbox"/>	<input type="checkbox"/>	4 x 1 1/2	4.500	1.900	4 1/4	3 3/8	3.826	1.500	0.337	0.200	14.28
<input type="checkbox"/>	<input type="checkbox"/>	4 x 2	4.500	2.375	4 1/4	3 1/2	3.826	1.939	0.337	0.218	14.45
<input type="checkbox"/>	<input type="checkbox"/>	4 x 2 1/2	4.500	2.875	4 1/4	3 3/4	3.826	2.323	0.337	0.276	14.62
<input type="checkbox"/>	<input type="checkbox"/>	4 x 3	4.500	3.500	4 1/4	3 7/8	3.826	2.900	0.337	0.300	14.96
<input type="checkbox"/>	<input type="checkbox"/>	4 x 3 1/2	4.500	4.000	4 1/4	4	3.826	3.364	0.337	0.318	15.30
<input type="checkbox"/>	<input type="checkbox"/>	5 x 2	5.563	2.375	4 7/8	4 1/8	4.813	1.939	0.375	0.337	21.00
<input type="checkbox"/>	<input type="checkbox"/>	5 x 2 1/2	5.563	2.875	4 7/8	4 1/4	4.813	2.323	0.375	0.276	21.25
<input type="checkbox"/>	<input type="checkbox"/>	5 x 3	5.563	3.500	4 7/8	4 3/8	4.813	2.900	0.375	0.300	21.50
<input type="checkbox"/>	<input type="checkbox"/>	5 x 3 1/2	5.563	4.000	4 7/8	4 1/2	4.813	3.364	0.375	0.318	22.00
<input type="checkbox"/>	<input type="checkbox"/>	5 x 4	5.563	4.500	4 7/8	4 3/4	4.813	3.826	0.375	0.337	22.50
<input type="checkbox"/>	<input type="checkbox"/>	6 x 2 1/2	6.625	2.875	5 3/8	4 3/4	5.761	2.323	0.432	0.276	25.20
<input type="checkbox"/>	<input type="checkbox"/>	6 x 3	6.625	3.500	5 3/8	4 7/8	5.761	2.900	0.432	0.300	25.50
<input type="checkbox"/>	<input type="checkbox"/>	6 x 3 1/2	6.625	4.000	5 3/8	5	5.761	3.364	0.432	0.318	25.80
<input type="checkbox"/>	<input type="checkbox"/>	6 x 4	6.625	4.500	5 3/8	5 1/8	5.761	3.826	0.432	0.337	26.40
<input type="checkbox"/>	<input type="checkbox"/>	6 x 5	6.625	5.563	5 3/8	5 3/8	5.761	4.813	0.432	0.375	27.00
<input type="checkbox"/>	<input type="checkbox"/>	8 x 3	8.625	3.500	7	6	7.625	2.900	0.500	0.300	52.08
<input type="checkbox"/>	<input type="checkbox"/>	8 x 3 1/2	8.625	4.000	7	6	7.625	3.364	0.500	0.318	52.70
<input type="checkbox"/>	<input type="checkbox"/>	8 x 4	8.625	4.500	7	6 1/8	7.625	3.826	0.500	0.337	53.32
<input type="checkbox"/>	<input type="checkbox"/>	8 x 5	8.625	5.563	7	6 3/8	7.625	4.813	0.500	0.375	54.56
<input type="checkbox"/>	<input type="checkbox"/>	8 x 6	8.625	6.625	7	6 3/8	7.625	5.761	0.500	0.432	55.80
<input type="checkbox"/>	<input type="checkbox"/>	10 x 4	10.750	4.500	8 1/2	7 1/4	9.750	3.826	0.500	0.337	93.50
<input type="checkbox"/>	<input type="checkbox"/>	10 x 5	10.750	5.563	8 1/2	7 1/2	9.750	4.813	0.500	0.375	94.60
<input type="checkbox"/>	<input type="checkbox"/>	10 x 6	10.750	6.625	8 1/2	7 3/8	9.750	5.761	0.500	0.432	96.80
<input type="checkbox"/>	<input type="checkbox"/>	10 x 8	10.750	8.625	8 1/2	8	9.750	7.625	0.500	0.500	99.00
<input type="checkbox"/>	<input type="checkbox"/>	12 x 5	12.750	5.563	10	8 1/2	11.750	4.813	0.500	0.375	157.00
<input type="checkbox"/>	<input type="checkbox"/>	12 x 6	12.750	6.625	10	8 3/8	11.750	5.761	0.500	0.432	159.00
<input type="checkbox"/>	<input type="checkbox"/>	12 x 8	12.750	8.625	10	9	11.750	7.625	0.500	0.500	163.00
<input type="checkbox"/>	<input type="checkbox"/>	12 x 10	12.750	10.750	10	9 1/2	11.750	9.750	0.500	0.500	166.00
<input type="checkbox"/>	<input type="checkbox"/>	14 x 6	14.000	6.625	11	9 3/8	13.000	5.761	0.500	0.432	178.00
<input type="checkbox"/>	<input type="checkbox"/>	14 x 8	14.000	8.625	11	9 3/4	13.000	7.625	0.500	0.500	180.00
<input type="checkbox"/>	<input type="checkbox"/>	14 x 10	14.000	10.750	11	10 1/8	13.000	9.750	0.500	0.500	185.00
<input type="checkbox"/>	<input type="checkbox"/>	14 x 12	14.000	12.750	11	10 3/8	13.000	11.750	0.500	0.500	189.00
<input type="checkbox"/>	<input type="checkbox"/>	16 x 6	16.000	6.625	12	10 3/8	15.000	5.761	0.500	0.432	222.00
<input type="checkbox"/>	<input type="checkbox"/>	16 x 8	16.000	8.625	12	10 3/4	15.000	7.625	0.500	0.500	225.00
<input type="checkbox"/>	<input type="checkbox"/>	16 x 10	16.000	10.750	12	11 1/8	15.000	9.750	0.500	0.500	228.00
<input type="checkbox"/>	<input type="checkbox"/>	16 x 12	16.000	12.750	12	11 3/8	15.000	11.750	0.500	0.500	233.00
<input type="checkbox"/>	<input type="checkbox"/>	16 x 14	16.000	14.000	12	12	15.000	13.000	0.500	0.500	238.00
<input type="checkbox"/>	<input type="checkbox"/>	18 x 8	18.000	8.625	13 1/2	11 3/4	17.000	7.625	0.500	0.500	289.00
<input type="checkbox"/>	<input type="checkbox"/>	18 x 10	18.000	10.750	13 1/2	12 1/8	17.000	9.750	0.500	0.500	292.00
<input type="checkbox"/>	<input type="checkbox"/>	18 x 12	18.000	12.750	13 1/2	12 3/8	17.000	11.750	0.500	0.500	296.00
<input type="checkbox"/>	<input type="checkbox"/>	18 x 14	18.000	14.000	13 1/2	13	17.000	13.000	0.500	0.500	303.00
<input type="checkbox"/>	<input type="checkbox"/>	18 x 16	18.000	16.000	13 1/2	13	17.000	15.000	0.500	0.500	309.00
<input type="checkbox"/>	<input type="checkbox"/>	20 x 8	20.000	8.625	15	12 3/4	19.000	7.625	0.500	0.500	357.00
<input type="checkbox"/>	<input type="checkbox"/>	20 x 10	20.000	10.750	15	13 1/8	19.000	9.750	0.500	0.500	361.00
<input type="checkbox"/>	<input type="checkbox"/>	20 x 12	20.000	12.750	15	13 3/8	19.000	11.750	0.500	0.500	365.00
<input type="checkbox"/>	<input type="checkbox"/>	20 x 14	20.000	14.000	15	14	19.000	13.000	0.500	0.500	370.00
<input type="checkbox"/>	<input type="checkbox"/>	20 x 16	20.000	16.000	15	14	19.000	15.000	0.500	0.500	378.00
<input type="checkbox"/>	<input type="checkbox"/>	20 x 18	20.000	18.000	15	14 1/2	19.000	17.000	0.500	0.500	387.00
<input type="checkbox"/>	<input type="checkbox"/>	24 x 10	24.000	10.750	17	15 1/8	23.000	9.750	0.500	0.500	498.00
<input type="checkbox"/>	<input type="checkbox"/>	24 x 12	24.000	12.750	17	15 3/8	23.000	11.750	0.500	0.500	504.00
<input type="checkbox"/>	<input type="checkbox"/>	24 x 14	24.000	14.000	17	16	23.000	13.000	0.500	0.500	510.00
<input type="checkbox"/>	<input type="checkbox"/>	24 x 16	24.000	16.000	17	16	23.000	15.000	0.500	0.500	516.00
<input type="checkbox"/>	<input type="checkbox"/>	24 x 18	24.000	18.000	17	16 1/2	23.000	17.000	0.500	0.500	528.00
<input type="checkbox"/>	<input type="checkbox"/>	24 x 20	24.000	20.000	17	17	23.000	19.000	0.500	0.500	540.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43



Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**REDUCING TEES**



Grade:  304L  316L  \_\_\_\_\_  
Seam:  Welded  Seamless  WPWX  
Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE Run x Outlet	OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	SCHEDULE 160S <input type="checkbox"/> <- SELECT				
						Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	Approx Weight
<input type="checkbox"/>	1/2 x 1/4	0.840	0.540	1	1	----	----	----	----	----
<input type="checkbox"/>	1/2 x 3/8	0.840	0.675	1	1	----	----	----	----	----
<input type="checkbox"/>	3/4 x 3/8	1.050	0.675	1 1/8	1 1/8	0.612	0.301	0.219	0.187	0.55
<input type="checkbox"/>	3/4 x 1/2	1.050	0.840	1 1/8	1 1/8	0.612	0.466	0.219	0.187	0.57
<input type="checkbox"/>	1 x 3/8	1.315	0.675	1 1/2	1 1/2	0.815	0.301	0.250	0.187	1.02
<input type="checkbox"/>	1 x 1/2	1.315	0.840	1 1/2	1 1/2	0.815	0.466	0.250	0.187	1.04
<input type="checkbox"/>	1 x 3/4	1.315	1.050	1 1/2	1 1/2	0.815	0.614	0.250	0.218	1.07
<input type="checkbox"/>	1 1/4 x 1/2	1.660	0.840	1 7/8	1 7/8	1.160	0.466	0.250	0.187	1.69
<input type="checkbox"/>	1 1/4 x 3/4	1.660	1.050	1 7/8	1 7/8	1.160	0.614	0.250	0.218	1.73
<input type="checkbox"/>	1 1/4 x 1	1.660	1.315	1 7/8	1 7/8	1.160	0.815	0.250	0.250	1.77
<input type="checkbox"/>	1 1/2 x 1/2	1.900	0.840	2 1/4	2 1/4	1.338	0.466	0.281	0.187	2.67
<input type="checkbox"/>	1 1/2 x 3/4	1.900	1.050	2 1/4	2 1/4	1.338	0.614	0.281	0.218	2.71
<input type="checkbox"/>	1 1/2 x 1	1.900	1.315	2 1/4	2 1/4	1.338	0.815	0.281	0.250	2.77
<input type="checkbox"/>	1 1/2 x 1 1/4	1.900	1.660	2 1/4	2 1/4	1.338	1.160	0.281	0.250	2.83
<input type="checkbox"/>	2 x 3/4	2.375	1.050	2 1/2	1 3/4	1.689	0.614	0.343	0.218	4.67
<input type="checkbox"/>	2 x 1	2.375	1.315	2 1/2	2	1.689	0.815	0.343	0.250	4.73
<input type="checkbox"/>	2 x 1 1/4	2.375	1.660	2 1/2	2 1/4	1.689	1.160	0.343	0.250	4.84
<input type="checkbox"/>	2 x 1 1/2	2.375	1.900	2 1/2	2 3/8	1.689	1.338	0.343	0.281	4.95
<input type="checkbox"/>	2 1/2 x 1	2.875	1.315	3	2 1/4	2.125	0.815	0.375	0.250	7.97
<input type="checkbox"/>	2 1/2 x 1 1/4	2.875	1.660	3	2 1/2	2.125	1.160	0.375	0.250	8.06
<input type="checkbox"/>	2 1/2 x 1 1/2	2.875	1.900	3	2 5/8	2.125	1.338	0.375	0.281	8.25
<input type="checkbox"/>	2 1/2 x 2	2.875	2.375	3	2 3/4	2.125	1.689	0.375	0.343	8.44
<input type="checkbox"/>	3 x 1	3.500	1.315	3 3/8	2 3/8	2.624	0.815	0.438	0.250	12.02
<input type="checkbox"/>	3 x 1 1/4	3.500	1.660	3 3/8	2 3/4	2.624	1.160	0.438	0.250	2.16
<input type="checkbox"/>	3 x 1 1/2	3.500	1.900	3 3/8	2 7/8	2.624	1.338	0.438	0.281	12.30
<input type="checkbox"/>	3 x 2	3.500	2.375	3 3/8	3	2.624	1.689	0.438	0.343	12.59
<input type="checkbox"/>	3 x 2 1/2	3.500	2.875	3 3/8	3 1/4	2.624	2.125	0.438	0.375	12.88
<input type="checkbox"/>	3 1/2 x 1 1/2	4.000	1.900	3 3/4	3 1/8	----	----	----	----	----
<input type="checkbox"/>	3 1/2 x 2	4.000	2.375	3 3/4	3 1/4	----	----	----	----	----

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

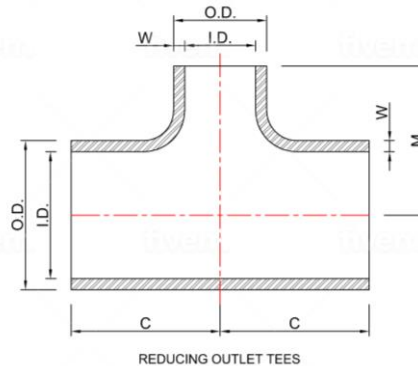
Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

SELECT	NOMINAL PIPE SIZE Run x Outlet	OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	SCHEDULE 160S <input type="checkbox"/> < SELECT				Approx Weight
						Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	
<input type="checkbox"/>	3 1/2 x 2 1/2	4.000	2.875	3 3/4	3 1/2	----	----	----	----	----
<input type="checkbox"/>	3 1/2 x 3	4.000	3.500	3 3/4	3 5/8	----	----	----	----	----
<input type="checkbox"/>	4 x 1 1/2	4.500	1.900	4 1/8	3 3/8	3.438	1.338	0.531	0.281	22.56
<input type="checkbox"/>	4 x 2	4.500	2.375	4 1/8	3 1/2	3.438	1.689	0.531	0.343	22.83
<input type="checkbox"/>	4 x 2 1/2	4.500	2.875	4 1/8	3 3/4	3.438	2.125	0.531	0.375	23.10
<input type="checkbox"/>	4 x 3	4.500	3.500	4 1/8	3 7/8	3.438	2.624	0.531	0.438	23.63
<input type="checkbox"/>	4 x 3 1/2	4.500	4.000	4 1/8	4	----	----	----	----	----
<input type="checkbox"/>	5 x 2	5.563	2.375	4 7/8	4 1/8	4.313	1.689	0.625	0.343	35.07
<input type="checkbox"/>	5 x 2 1/2	5.563	2.875	4 7/8	4 1/4	4.313	2.125	0.625	0.375	35.48
<input type="checkbox"/>	5 x 3	5.563	3.500	4 7/8	4 3/8	4.313	2.624	0.625	0.438	35.90
<input type="checkbox"/>	5 x 3 1/2	5.563	4.000	4 7/8	4 1/2	----	----	----	----	----
<input type="checkbox"/>	5 x 4	5.563	4.500	4 7/8	4 5/8	4.313	3.438	0.625	0.531	37.57
<input type="checkbox"/>	6 x 2 1/2	6.625	2.875	5 3/8	4 3/4	5.187	2.125	0.719	0.375	41.83
<input type="checkbox"/>	6 x 3	6.625	3.500	5 3/8	4 7/8	5.187	2.624	0.719	0.438	42.33
<input type="checkbox"/>	6 x 3 1/2	6.625	4.000	5 3/8	5	----	----	----	----	----
<input type="checkbox"/>	6 x 4	6.625	4.500	5 3/8	5 1/8	5.187	3.438	0.719	0.531	43.82
<input type="checkbox"/>	6 x 5	6.625	5.563	5 3/8	5 3/8	5.187	4.313	0.719	0.625	44.82
<input type="checkbox"/>	8 x 3	8.625	3.500	7	6	6.813	2.624	0.906	0.438	94.00
<input type="checkbox"/>	8 x 3 1/2	8.625	4.000	7	6	----	----	----	----	----
<input type="checkbox"/>	8 x 4	8.625	4.500	7	6 1/8	6.813	3.438	0.906	0.531	96.30
<input type="checkbox"/>	8 x 5	8.625	5.563	7	6 3/8	6.813	4.313	0.906	0.625	98.50
<input type="checkbox"/>	8 x 6	8.625	6.625	7	6 5/8	6.813	5.187	0.906	0.719	101.00
<input type="checkbox"/>	10 x 4	10.750	4.500	8 1/2	7 1/4	8.500	3.438	1.125	0.531	210.00
<input type="checkbox"/>	10 x 5	10.750	5.563	8 1/2	7 1/2	8.500	4.313	1.125	0.625	212.00
<input type="checkbox"/>	10 x 6	10.750	6.625	8 1/2	7 3/8	8.500	5.187	1.125	0.719	217.00
<input type="checkbox"/>	10 x 8	10.750	8.625	8 1/2	8	8.500	6.813	1.125	0.906	222.00
<input type="checkbox"/>	12 x 5	12.750	5.563	10	8 1/2	10.126	4.313	1.312	0.625	411.00
<input type="checkbox"/>	12 x 6	12.750	6.625	10	8 5/8	10.126	5.187	1.312	0.719	416.00
<input type="checkbox"/>	12 x 8	12.750	8.625	10	9	10.126	6.813	1.312	0.906	426.00
<input type="checkbox"/>	12 x 10	12.750	10.750	10	9 1/2	10.126	8.500	1.312	1.125	435.00
<input type="checkbox"/>	14 x 6	14.000	6.625	11	9 3/8	11.188	5.187	1.406	0.719	----
<input type="checkbox"/>	14 x 8	14.000	8.625	11	9 1/4	11.188	6.813	1.406	0.906	----
<input type="checkbox"/>	14 x 10	14.000	10.750	11	10 1/8	11.188	8.500	1.406	1.125	----
<input type="checkbox"/>	14 x 12	14.000	12.750	11	10 5/8	11.188	10.126	1.406	1.312	----
<input type="checkbox"/>	16 x 6	16.000	6.625	12	10 3/8	12.812	5.187	1.594	0.719	----
<input type="checkbox"/>	16 x 8	16.000	8.625	12	10 3/4	12.812	6.813	1.594	0.906	----
<input type="checkbox"/>	16 x 10	16.000	10.750	12	11 1/8	12.812	8.500	1.594	1.125	----
<input type="checkbox"/>	16 x 12	16.000	12.750	12	11 3/8	12.812	10.126	1.594	1.312	----
<input type="checkbox"/>	16 x 14	16.000	14.000	12	12	12.812	11.188	1.594	1.406	----
<input type="checkbox"/>	18 x 8	18.000	8.625	13 1/2	11 3/4	14.438	6.813	1.781	0.906	----
<input type="checkbox"/>	18 x 10	18.000	10.750	13 1/2	12 1/8	14.438	8.500	1.781	1.125	----
<input type="checkbox"/>	18 x 12	18.000	12.750	13 1/2	12 3/8	14.438	10.126	1.781	1.312	----
<input type="checkbox"/>	18 x 14	18.000	14.000	13 1/2	13	14.438	11.188	1.781	1.406	----
<input type="checkbox"/>	18 x 16	18.000	16.000	13 1/2	13	14.438	12.812	1.781	1.594	----
<input type="checkbox"/>	20 x 8	20.000	8.625	15	12 3/4	16.062	6.813	1.969	0.906	----
<input type="checkbox"/>	20 x 10	20.000	10.750	15	13 1/8	16.062	8.500	1.969	1.125	----
<input type="checkbox"/>	20 x 12	20.000	12.750	15	13 3/8	16.062	10.126	1.969	1.312	----
<input type="checkbox"/>	20 x 14	20.000	14.000	15	14	16.062	11.188	1.969	1.406	----
<input type="checkbox"/>	20 x 16	20.000	16.000	15	14	16.062	12.812	1.969	1.594	----
<input type="checkbox"/>	20 x 18	20.000	18.000	15	14 1/2	16.062	14.438	1.969	1.781	----
<input type="checkbox"/>	24 x 10	24.000	10.750	17	15 1/8	19.312	8.500	2.344	1.125	----
<input type="checkbox"/>	24 x 12	24.000	12.750	17	15 3/8	19.312	10.126	2.344	1.312	----
<input type="checkbox"/>	24 x 14	24.000	14.000	17	16	19.312	11.188	2.344	1.406	----
<input type="checkbox"/>	24 x 16	24.000	16.000	17	16	19.312	12.812	2.344	1.594	----
<input type="checkbox"/>	24 x 18	24.000	18.000	17	16 1/2	19.312	14.438	2.344	1.781	----
<input type="checkbox"/>	24 x 20	24.000	20.000	17	17	19.312	16.062	2.344	1.969	----

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**REDUCING TEES**



Grade:  304L  316L  \_\_\_\_\_  
Seam:  Welded  Seamless  WPWX  
Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE Run x Outlet	OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	XX STRONG WALL <input type="checkbox"/> <- SELECT				Approx Weight
						Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	
<input type="checkbox"/>	1/2 x 1/4	0.840	0.540	1	1	----	----	----	----	----
<input type="checkbox"/>	1/2 x 3/8	0.840	0.675	1	1	----	----	----	----	----
<input type="checkbox"/>	3/4 x 3/8	1.050	0.675	1 1/8	1 1/8	----	----	----	----	----
<input type="checkbox"/>	3/4 x 1/2	1.050	0.840	1 1/8	1 1/8	0.434	0.252	0.308	0.294	0.81
<input type="checkbox"/>	1 x 3/8	1.315	0.675	1 1/2	1 1/2	----	----	----	----	----
<input type="checkbox"/>	1 x 1/2	1.315	0.840	1 1/2	1 1/2	0.599	0.252	0.358	0.294	1.49
<input type="checkbox"/>	1 x 3/4	1.315	1.050	1 1/2	1 1/2	0.599	0.434	0.358	0.308	1.53
<input type="checkbox"/>	1 1/4 x 1/2	1.660	0.840	1 7/8	1 7/8	0.896	0.252	0.382	0.294	2.58
<input type="checkbox"/>	1 1/4 x 3/4	1.660	1.050	1 7/8	1 7/8	0.896	0.434	0.382	0.308	2.64
<input type="checkbox"/>	1 1/4 x 1	1.660	1.315	1 7/8	1 7/8	0.896	0.599	0.382	0.358	2.70
<input type="checkbox"/>	1 1/2 x 1/2	1.900	0.840	2 1/4	2 1/4	1.100	0.252	0.400	0.294	3.82
<input type="checkbox"/>	1 1/2 x 3/4	1.900	1.050	2 1/4	2 1/4	1.100	0.434	0.400	0.308	3.87
<input type="checkbox"/>	1 1/2 x 1	1.900	1.315	2 1/4	2 1/4	1.100	0.599	0.400	0.358	3.96
<input type="checkbox"/>	1 1/2 x 1 1/4	1.900	1.660	2 1/4	2 1/4	1.100	0.896	0.400	0.382	4.05
<input type="checkbox"/>	2 x 3/4	2.375	1.050	2 1/2	1 3/4	1.503	0.434	0.436	0.308	5.95
<input type="checkbox"/>	2 x 1	2.375	1.315	2 1/2	2	1.503	0.599	0.436	0.358	6.02
<input type="checkbox"/>	2 x 1 1/4	2.375	1.660	2 1/2	2 1/4	1.503	0.896	0.436	0.382	6.16
<input type="checkbox"/>	2 x 1 1/2	2.375	1.900	2 1/2	2 3/8	1.503	1.110	0.436	0.400	6.30
<input type="checkbox"/>	2 1/2 x 1	2.875	1.315	3	2 1/4	1.771	0.599	0.552	0.358	11.73
<input type="checkbox"/>	2 1/2 x 1 1/4	2.875	1.660	3	2 1/2	1.771	0.896	0.552	0.382	11.87
<input type="checkbox"/>	2 1/2 x 1 1/2	2.875	1.900	3	2 5/8	1.771	1.110	0.552	0.400	12.14
<input type="checkbox"/>	2 1/2 x 2	2.875	2.375	3	2 3/4	1.771	1.503	0.552	0.436	12.42
<input type="checkbox"/>	3 x 1	3.500	1.315	3 3/8	2 3/8	2.300	0.599	0.600	0.358	16.46
<input type="checkbox"/>	3 x 1 1/4	3.500	1.660	3 3/8	2 3/4	2.300	0.896	0.600	0.382	16.66
<input type="checkbox"/>	3 x 1 1/2	3.500	1.900	3 3/8	2 7/8	2.300	1.110	0.600	0.400	16.85
<input type="checkbox"/>	3 x 2	3.500	2.375	3 3/8	3	2.300	1.503	0.600	0.436	17.24
<input type="checkbox"/>	3 x 2 1/2	3.500	2.875	3 3/8	3 1/4	2.300	1.771	0.600	0.552	17.64
<input type="checkbox"/>	3 1/2 x 1 1/2	4.000	1.900	3 3/4	3 1/8	2.728	1.110	0.636	0.400	20.40
<input type="checkbox"/>	3 1/2 x 2	4.000	2.375	3 3/4	3 1/4	2.728	1.503	0.636	0.436	20.64

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

SELECT

NOMINAL PIPE SIZE Run x Outlet	OUTSIDE DIAMETER RUN (O.D.)	OUTSIDE DIAMETER OUTLET (O.D.)	CENTER TO END RUN (C)	CENTER TO END OUTLET (M)	XX STRONG WALL <input type="checkbox"/> < SELECT				
					Inside Diameter Run (I.D.)	Inside Diameter Outlet (I.D.)	Wall Thickness Run (W)	Wall Thickness Outlet (W)	Approx Weight
<input type="checkbox"/> 3 1/2 x 2 1/2	4.000	2.875	3 3/4	3 1/2	2.728	1.771	0.636	0.552	21.12
<input type="checkbox"/> 3 1/2 x 3	4.000	3.500	3 3/4	3 3/8	2.728	2.300	0.636	0.600	21.60
<input type="checkbox"/> 4 x 1 1/2	4.500	1.900	4 1/8	3 3/8	3.152	1.100	0.674	0.400	28.56
<input type="checkbox"/> 4 x 2	4.500	2.375	4 1/8	3 1/2	3.152	1.503	0.674	0.436	28.90
<input type="checkbox"/> 4 x 2 1/2	4.500	2.875	4 1/8	3 3/4	3.152	1.771	0.674	0.552	29.24
<input type="checkbox"/> 4 x 3	4.500	3.500	4 1/8	3 7/8	3.152	2.300	0.674	0.600	29.92
<input type="checkbox"/> 4 x 3 1/2	4.500	4.000	4 1/8	4	3.152	2.728	0.674	0.636	30.60
<input type="checkbox"/> 5 x 2	5.563	2.375	4 7/8	4 1/8	4.063	1.503	0.750	0.436	42.00
<input type="checkbox"/> 5 x 2 1/2	5.563	2.875	4 7/8	4 1/4	4.063	1.771	0.750	0.552	42.50
<input type="checkbox"/> 5 x 3	5.563	3.500	4 7/8	4 3/8	4.063	2.300	0.750	0.600	43.00
<input type="checkbox"/> 5 x 3 1/2	5.563	4.000	4 7/8	4 1/2	4.063	2.728	0.750	0.636	44.00
<input type="checkbox"/> 5 x 4	5.563	4.500	4 7/8	4 5/8	4.063	3.152	0.750	0.674	45.00
<input type="checkbox"/> 6 x 2 1/2	6.625	2.875	5 3/8	4 3/4	4.897	1.771	0.864	0.552	50.40
<input type="checkbox"/> 6 x 3	6.625	3.500	5 3/8	4 7/8	4.897	2.300	0.864	0.600	51.00
<input type="checkbox"/> 6 x 3 1/2	6.625	4.000	5 3/8	5	4.897	2.728	0.864	0.636	51.60
<input type="checkbox"/> 6 x 4	6.625	4.500	5 3/8	5 1/8	4.897	3.152	0.864	0.674	52.80
<input type="checkbox"/> 6 x 5	6.625	5.563	5 3/8	5 3/8	4.897	4.063	0.864	0.750	54.00
<input type="checkbox"/> 8 x 3	8.625	3.500	7	6	6.875	2.300	0.875	0.600	90.70
<input type="checkbox"/> 8 x 3 1/2	8.625	4.000	7	6	6.875	2.728	0.875	0.636	91.80
<input type="checkbox"/> 8 x 4	8.625	4.500	7	6 1/8	6.875	3.152	0.875	0.674	92.90
<input type="checkbox"/> 8 x 5	8.625	5.563	7	6 3/8	6.875	4.063	0.875	0.750	95.00
<input type="checkbox"/> 8 x 6	8.625	6.625	7	6 3/8	6.875	4.897	0.875	0.864	97.20
<input type="checkbox"/> 10 x 4	10.750	4.500	8 1/2	7 1/4	-----	-----	-----	-----	-----
<input type="checkbox"/> 10 x 5	10.750	5.563	8 1/2	7 1/2	-----	-----	-----	-----	-----
<input type="checkbox"/> 10 x 6	10.750	6.625	8 1/2	7 3/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 10 x 8	10.750	8.625	8 1/2	8	-----	-----	-----	-----	-----
<input type="checkbox"/> 12 x 5	12.750	5.563	10	8 1/2	-----	-----	-----	-----	-----
<input type="checkbox"/> 12 x 6	12.750	6.625	10	8 3/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 12 x 8	12.750	8.625	10	9	-----	-----	-----	-----	-----
<input type="checkbox"/> 12 x 10	12.750	10.750	10	9 1/2	-----	-----	-----	-----	-----
<input type="checkbox"/> 14 x 6	14.000	6.625	11	9 3/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 14 x 8	14.000	8.625	11	9 3/4	-----	-----	-----	-----	-----
<input type="checkbox"/> 14 x 10	14.000	10.750	11	10 1/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 14 x 12	14.000	12.750	11	10 3/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 16 x 6	16.000	6.625	12	10 3/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 16 x 8	16.000	8.625	12	10 3/4	-----	-----	-----	-----	-----
<input type="checkbox"/> 16 x 10	16.000	10.750	12	11 1/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 16 x 12	16.000	12.750	12	11 3/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 16 x 14	16.000	14.000	12	12	-----	-----	-----	-----	-----
<input type="checkbox"/> 18 x 8	18.000	8.625	13 1/2	11 3/4	-----	-----	-----	-----	-----
<input type="checkbox"/> 18 x 10	18.000	10.750	13 1/2	12 1/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 18 x 12	18.000	12.750	13 1/2	12 3/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 18 x 14	18.000	14.000	13 1/2	13	-----	-----	-----	-----	-----
<input type="checkbox"/> 18 x 16	18.000	16.000	13 1/2	13	-----	-----	-----	-----	-----
<input type="checkbox"/> 20 x 8	20.000	8.625	15	12 3/4	-----	-----	-----	-----	-----
<input type="checkbox"/> 20 x 10	20.000	10.750	15	13 1/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 20 x 12	20.000	12.750	15	13 3/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 20 x 14	20.000	14.000	15	14	-----	-----	-----	-----	-----
<input type="checkbox"/> 20 x 16	20.000	16.000	15	14	-----	-----	-----	-----	-----
<input type="checkbox"/> 20 x 18	20.000	18.000	15	14 1/2	-----	-----	-----	-----	-----
<input type="checkbox"/> 24 x 10	24.000	10.750	17	15 1/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 24 x 12	24.000	12.750	17	15 3/8	-----	-----	-----	-----	-----
<input type="checkbox"/> 24 x 14	24.000	14.000	17	16	-----	-----	-----	-----	-----
<input type="checkbox"/> 24 x 16	24.000	16.000	17	16	-----	-----	-----	-----	-----
<input type="checkbox"/> 24 x 18	24.000	18.000	17	16 1/2	-----	-----	-----	-----	-----
<input type="checkbox"/> 24 x 20	24.000	20.000	17	17	-----	-----	-----	-----	-----

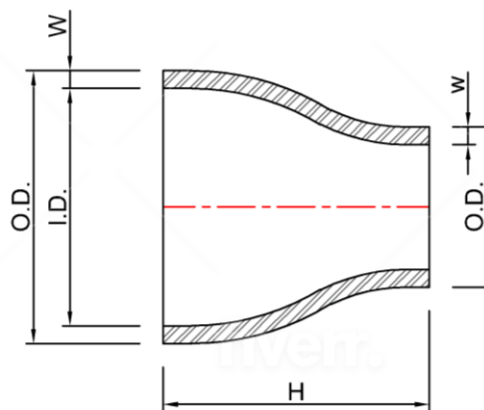
ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43



Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

**ASTM A403, B16.9  
CONCENTRIC REDUCERS**



Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	SCHEDULE 5S <input type="checkbox"/> <- SELECT				Approx Weight
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	
<input type="checkbox"/>	¾ x ¾	1.050	0.675	1 ½	0.920	0.545	0.065	0.065	0.15
<input type="checkbox"/>	¾ x ½	1.050	0.840	1 ½	0.920	0.710	0.065	0.065	0.17
<input type="checkbox"/>	1 x ¾	1.315	0.675	2	1.185	0.545	0.065	0.065	0.16
<input type="checkbox"/>	1 x ½	1.315	0.840	2	1.185	0.710	0.065	0.065	0.16
<input type="checkbox"/>	1 x ¾	1.315	1.050	2	1.185	0.920	0.065	0.065	0.17
<input type="checkbox"/>	1 ¼ x ½	1.660	0.840	2	1.530	0.710	0.065	0.065	0.21
<input type="checkbox"/>	1 ¼ x ¾	1.660	1.050	2	1.530	0.920	0.065	0.065	0.22
<input type="checkbox"/>	1 ¼ x 1	1.660	1.315	2	1.530	1.185	0.065	0.065	0.22
<input type="checkbox"/>	1 ½ x ½	1.900	0.840	2 ½	1.770	0.710	0.065	0.065	0.23
<input type="checkbox"/>	1 ½ x ¾	1.900	1.050	2 ½	1.770	0.920	0.065	0.065	0.24
<input type="checkbox"/>	1 ½ x 1	1.900	1.315	2 ½	1.770	1.185	0.065	0.065	0.25
<input type="checkbox"/>	1 ½ x 1 ¼	1.900	1.660	2 ½	1.770	1.530	0.065	0.065	0.27
<input type="checkbox"/>	2 x ¾	2.375	1.050	3	2.245	0.920	0.065	0.065	0.33
<input type="checkbox"/>	2 x 1	2.375	1.315	3	2.245	1.185	0.065	0.065	0.37
<input type="checkbox"/>	2 x 1 ¼	2.375	1.660	3	2.245	1.530	0.065	0.065	0.40
<input type="checkbox"/>	2 x 1 ½	2.375	1.900	3	2.245	1.770	0.065	0.065	0.41
<input type="checkbox"/>	2 ½ x 1	2.875	1.315	3 ½	2.709	1.185	0.083	0.065	0.56
<input type="checkbox"/>	2 ½ x 1 ¼	2.875	1.660	3 ½	2.709	1.530	0.083	0.065	0.64
<input type="checkbox"/>	2 ½ x 1 ½	2.875	1.900	3 ½	2.709	1.770	0.083	0.065	0.67
<input type="checkbox"/>	2 ½ x 2	2.875	2.375	3 ½	2.709	2.245	0.083	0.065	0.70
<input type="checkbox"/>	3 x 1	3.500	1.315	3 ½	3.334	1.185	0.083	0.065	0.70
<input type="checkbox"/>	3 x 1 ¼	3.500	1.660	3 ½	3.334	1.530	0.083	0.065	0.70
<input type="checkbox"/>	3 x 1 ½	3.500	1.900	3 ½	3.334	1.770	0.083	0.065	0.78
<input type="checkbox"/>	3 x 2	3.500	2.375	3 ½	3.334	2.245	0.083	0.065	0.83
<input type="checkbox"/>	3 x 2 ½	3.500	2.875	3 ½	3.334	2.709	0.083	0.083	0.90
<input type="checkbox"/>	3 ½ x 1 ¼	4.000	1.660	4	3.834	1.530	0.083	0.065	0.93
<input type="checkbox"/>	3 ½ x 1 ½	4.000	1.900	4	3.834	1.770	0.083	0.065	0.99

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

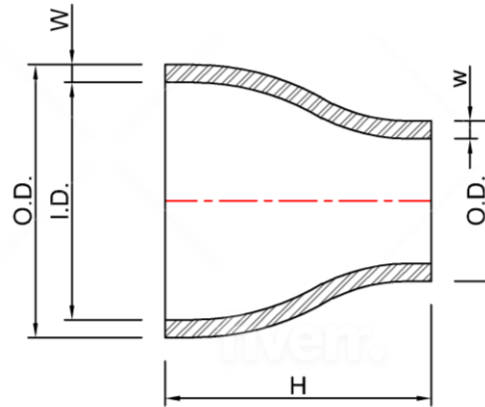
SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	SCHEDULE 5S <input type="checkbox"/> < SELECT				Approx Weight
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	
<input type="checkbox"/>	3 1/2 x 2	4.000	2.375	4	3.834	2.245	0.083	0.065	1.06
<input type="checkbox"/>	3 1/2 x 2 1/2	4.000	2.875	4	3.834	2.709	0.083	0.083	1.17
<input type="checkbox"/>	3 1/2 x 3	4.000	3.500	4	3.834	3.334	0.083	0.083	1.20
<input type="checkbox"/>	4 x 1 1/2	4.500	1.900	4	4.334	1.770	0.083	0.083	1.05
<input type="checkbox"/>	4 x 2	4.500	2.375	4	4.334	2.245	0.083	0.083	1.21
<input type="checkbox"/>	4 x 2 1/2	4.500	2.875	4	4.334	2.709	0.083	0.083	1.28
<input type="checkbox"/>	4 x 3	4.500	3.500	4	4.334	3.334	0.083	0.083	1.34
<input type="checkbox"/>	4 x 3 1/2	4.500	4.000	4	4.334	3.834	0.083	0.083	1.38
<input type="checkbox"/>	5 x 2	5.563	2.375	5	5.345	2.245	0.109	0.065	2.33
<input type="checkbox"/>	5 x 2 1/2	5.563	2.875	5	5.345	2.709	0.109	0.083	2.55
<input type="checkbox"/>	5 x 3	5.563	3.500	5	5.345	3.334	0.109	0.083	2.64
<input type="checkbox"/>	5 x 3 1/2	5.563	4.000	5	5.345	3.834	0.109	0.083	2.71
<input type="checkbox"/>	5 x 4	5.563	4.500	5	5.345	4.334	0.109	0.083	2.76
<input type="checkbox"/>	6 x 2 1/2	6.625	2.875	5 1/2	6.407	2.709	0.109	0.083	3.18
<input type="checkbox"/>	6 x 3	6.625	3.500	5 1/2	6.407	3.334	0.109	0.083	3.33
<input type="checkbox"/>	6 x 3 1/2	6.625	4.000	5 1/2	6.407	3.834	0.109	0.083	3.39
<input type="checkbox"/>	6 x 4	6.625	4.500	5 1/2	6.407	4.334	0.109	0.083	3.41
<input type="checkbox"/>	6 x 5	6.625	5.563	5 1/2	6.407	5.345	0.109	0.109	3.60
<input type="checkbox"/>	8 x 3 1/2	8.625	4.000	6	8.407	3.834	0.109	0.083	4.65
<input type="checkbox"/>	8 x 4	8.625	4.500	6	8.407	4.334	0.109	0.083	4.76
<input type="checkbox"/>	8 x 5	8.625	5.563	6	8.407	5.345	0.109	0.109	4.87
<input type="checkbox"/>	8 x 6	8.625	6.625	6	8.407	6.407	0.109	0.109	5.05
<input type="checkbox"/>	10 x 4	10.750	4.500	7	10.482	4.334	0.134	0.083	8.34
<input type="checkbox"/>	10 x 5	10.750	5.563	7	10.482	5.345	0.134	0.109	8.62
<input type="checkbox"/>	10 x 6	10.750	6.625	7	10.482	6.407	0.134	0.109	8.82
<input type="checkbox"/>	10 x 8	10.750	8.625	7	10.482	8.407	0.134	0.109	9.17
<input type="checkbox"/>	12 x 5	12.750	5.563	8	12.438	5.345	0.156	0.109	13.72
<input type="checkbox"/>	12 x 6	12.750	6.625	8	12.438	6.407	0.156	0.109	14.01
<input type="checkbox"/>	12 x 8	12.750	8.625	8	12.438	8.407	0.156	0.109	14.45
<input type="checkbox"/>	12 x 10	12.750	10.750	8	12.438	10.482	0.156	0.134	15.03
<input type="checkbox"/>	14 x 6	14.000	6.625	13	13.688	6.407	0.156	0.109	23.78
<input type="checkbox"/>	14 x 8	14.000	8.625	13	13.688	8.407	0.156	0.109	25.10
<input type="checkbox"/>	14 x 10	14.000	10.750	13	13.688	10.482	0.156	0.134	26.05
<input type="checkbox"/>	14 x 12	14.000	12.750	13	13.688	12.438	0.156	0.156	27.64
<input type="checkbox"/>	16 x 8	16.000	8.625	14	15.670	8.407	0.165	0.109	32.39
<input type="checkbox"/>	16 x 10	16.000	10.750	14	15.670	10.482	0.165	0.134	34.37
<input type="checkbox"/>	16 x 12	16.000	12.750	14	15.670	12.438	0.165	0.156	35.60
<input type="checkbox"/>	16 x 14	16.000	14.000	14	15.670	13.688	0.165	0.156	36.48
<input type="checkbox"/>	18 x 10	18.000	10.750	15	17.670	10.482	0.165	0.134	40.78
<input type="checkbox"/>	18 x 12	18.000	12.750	15	17.670	12.438	0.165	0.156	41.66
<input type="checkbox"/>	18 x 14	18.000	14.000	15	17.670	13.688	0.165	0.156	42.48
<input type="checkbox"/>	18 x 16	18.000	16.000	15	17.670	15.670	0.165	0.165	43.64
<input type="checkbox"/>	20 x 12	20.000	12.750	20	19.624	12.438	0.188	0.156	71.50
<input type="checkbox"/>	20 x 14	20.000	14.000	20	19.624	13.688	0.188	0.156	72.50
<input type="checkbox"/>	20 x 16	20.000	16.000	20	19.624	15.670	0.188	0.165	73.00
<input type="checkbox"/>	20 x 18	20.000	18.000	20	19.624	17.670	0.188	0.165	75.50
<input type="checkbox"/>	24 x 16	24.000	16.000	20	23.564	15.670	0.218	0.165	98.02
<input type="checkbox"/>	24 x 18	24.000	18.000	20	23.564	17.670	0.218	0.165	100.00
<input type="checkbox"/>	24 x 20	24.000	20.000	20	23.564	19.624	0.218	0.188	103.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43



Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

## ASTM A403, B16.9 CONCENTRIC REDUCERS



Grade:  304L  316L  \_\_\_\_\_  
Seam:  Welded  Seamless  WPWX  
Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

### DIMENSIONS

UOM: Inches/LBS

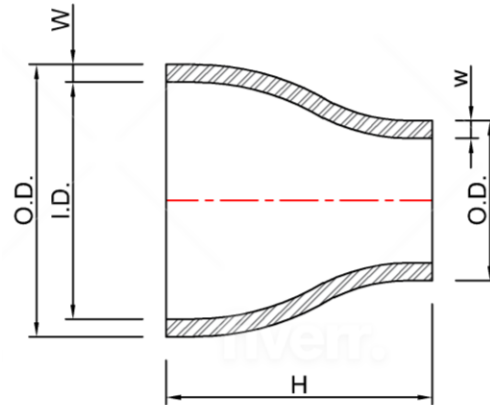
SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	SCHEDULE 10S <input type="checkbox"/> < SELECT				
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	Approx Weight
<input type="checkbox"/>	¾ x ¾	1.050	0.675	1 ½	0.884	0.545	0.083	0.065	0.20
<input type="checkbox"/>	¾ x ½	1.050	0.840	1 ½	0.884	0.674	0.083	0.083	0.22
<input type="checkbox"/>	1 x ¾	1.315	0.675	2	1.097	0.545	0.109	0.065	0.21
<input type="checkbox"/>	1 x ½	1.315	0.840	2	1.097	0.674	0.109	0.083	0.27
<input type="checkbox"/>	1 x ¾	1.315	1.050	2	1.097	0.884	0.109	0.083	0.29
<input type="checkbox"/>	1 ¼ x ½	1.660	0.840	2	1.442	0.674	0.109	0.083	0.35
<input type="checkbox"/>	1 ¼ x ¾	1.660	1.050	2	1.442	0.884	0.109	0.083	0.39
<input type="checkbox"/>	1 ¼ x 1	1.660	1.315	2	1.442	1.097	0.109	0.109	0.39
<input type="checkbox"/>	1 ½ x ½	1.900	0.840	2 ½	1.682	0.674	0.109	0.083	0.37
<input type="checkbox"/>	1 ½ x ¾	1.900	1.050	2 ½	1.682	0.884	0.109	0.083	0.39
<input type="checkbox"/>	1 ½ x 1	1.900	1.315	2 ½	1.682	1.097	0.109	0.109	0.43
<input type="checkbox"/>	1 ½ x 1 ¼	1.900	1.660	2 ½	1.682	1.442	0.109	0.109	0.46
<input type="checkbox"/>	2 x ¾	2.375	1.050	3	2.157	0.884	0.109	0.083	0.56
<input type="checkbox"/>	2 x 1	2.375	1.315	3	2.157	1.097	0.109	0.109	0.62
<input type="checkbox"/>	2 x 1 ¼	2.375	1.660	3	2.157	1.442	0.109	0.109	0.67
<input type="checkbox"/>	2 x 1 ½	2.375	1.900	3	2.157	1.682	0.109	0.109	0.69
<input type="checkbox"/>	2 ½ x 1	2.875	1.315	3 ½	2.635	1.097	0.120	0.109	0.83
<input type="checkbox"/>	2 ½ x 1 ¼	2.875	1.660	3 ½	2.635	1.442	0.120	0.109	0.95
<input type="checkbox"/>	2 ½ x 1 ½	2.875	1.900	3 ½	2.635	1.682	0.120	0.109	0.98
<input type="checkbox"/>	2 ½ x 2	2.875	2.375	3 ½	2.635	2.157	0.120	0.109	1.03
<input type="checkbox"/>	3 x 1	3.500	1.315	3 ½	3.260	1.097	0.120	0.109	1.03
<input type="checkbox"/>	3 x 1 ¼	3.500	1.660	3 ½	3.260	1.442	0.120	0.109	1.03
<input type="checkbox"/>	3 x 1 ½	3.500	1.900	3 ½	3.260	1.682	0.120	0.109	1.13
<input type="checkbox"/>	3 x 2	3.500	2.375	3 ½	3.260	2.157	0.120	0.109	1.21
<input type="checkbox"/>	3 x 2 ½	3.500	2.875	3 ½	3.260	2.635	0.120	0.120	1.30
<input type="checkbox"/>	3 ½ x 1 ¼	4.000	1.660	4	3.760	1.442	0.120	0.109	1.37
<input type="checkbox"/>	3 ½ x 1 ½	4.000	1.900	4	3.760	1.682	0.120	0.109	1.46

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43



Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

## ASTM A403, B16.9 CONCENTRIC REDUCERS



Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

### DIMENSIONS

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	SCHEDULE 40S <input type="checkbox"/> < SELECT				Approx Weight
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	
<input type="checkbox"/>	¾ x ¾	1.050	0.675	1 ½	0.824	0.493	0.113	0.091	0.27
<input type="checkbox"/>	¾ x ½	1.050	0.840	1 ½	0.824	0.622	0.113	0.109	0.31
<input type="checkbox"/>	1 x ¾	1.315	0.675	2	1.049	0.493	0.133	0.091	0.33
<input type="checkbox"/>	1 x ½	1.315	0.840	2	1.049	0.622	0.133	0.109	0.34
<input type="checkbox"/>	1 x ¾	1.315	1.050	2	1.049	0.824	0.133	0.113	0.36
<input type="checkbox"/>	1 ¼ x ½	1.660	0.840	2	1.380	0.622	0.140	0.109	0.46
<input type="checkbox"/>	1 ¼ x ¾	1.660	1.050	2	1.380	0.824	0.140	0.113	0.49
<input type="checkbox"/>	1 ¼ x 1	1.660	1.315	2	1.380	1.049	0.140	0.133	0.49
<input type="checkbox"/>	1 ½ x ½	1.900	0.840	2 ½	1.610	0.622	0.145	0.109	0.50
<input type="checkbox"/>	1 ½ x ¾	1.900	1.050	2 ½	1.610	0.824	0.145	0.113	0.52
<input type="checkbox"/>	1 ½ x 1	1.900	1.315	2 ½	1.610	1.049	0.145	0.133	0.28
<input type="checkbox"/>	1 ½ x 1 ¼	1.900	1.660	2 ½	1.610	1.380	0.145	0.140	0.62
<input type="checkbox"/>	2 x ¾	2.375	1.050	3	2.067	0.824	0.154	0.113	0.80
<input type="checkbox"/>	2 x 1	2.375	1.315	3	2.067	1.049	0.154	0.133	0.89
<input type="checkbox"/>	2 x 1 ¼	2.375	1.660	3	2.067	1.380	0.154	0.140	0.96
<input type="checkbox"/>	2 x 1 ½	2.375	1.900	3	2.067	1.610	0.154	0.145	0.99
<input type="checkbox"/>	2 ½ x 1	2.875	1.315	3 ½	2.469	1.049	0.203	0.133	1.42
<input type="checkbox"/>	2 ½ x 1 ¼	2.875	1.660	3 ½	2.469	1.380	0.203	0.140	1.61
<input type="checkbox"/>	2 ½ x 1 ½	2.875	1.900	3 ½	2.469	1.610	0.203	0.145	1.67
<input type="checkbox"/>	2 ½ x 2	2.875	2.375	3 ½	2.469	2.067	0.203	0.154	1.76
<input type="checkbox"/>	3 x 1	3.500	1.315	3 ½	3.068	1.049	0.216	0.133	1.81
<input type="checkbox"/>	3 x 1 ¼	3.500	1.660	3 ½	3.068	1.380	0.216	0.140	1.86
<input type="checkbox"/>	3 x 1 ½	3.500	1.900	3 ½	3.068	1.610	0.216	0.145	2.07
<input type="checkbox"/>	3 x 2	3.500	2.375	3 ½	3.068	2.067	0.216	0.154	2.20
<input type="checkbox"/>	3 x 2 ½	3.500	2.875	3 ½	3.068	2.469	0.216	0.203	2.38
<input type="checkbox"/>	3 ½ x 1 ¼	4.000	1.660	4	3.548	1.380	0.226	0.140	2.60
<input type="checkbox"/>	3 ½ x 1 ½	4.000	1.900	4	3.548	1.610	0.226	0.145	2.76

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

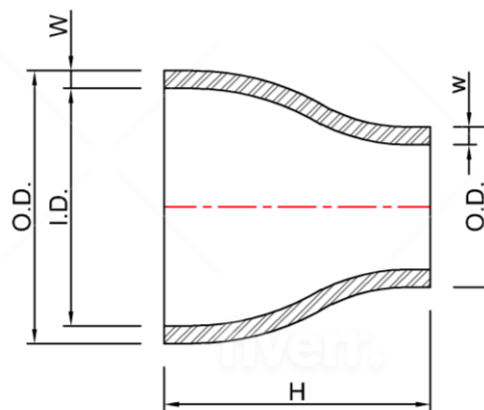


Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

## ASTM A403, B16.9

### CONCENTRIC REDUCERS



Grade:  304L  316L  \_\_\_\_\_

Seam:  Welded  Seamless  WPWX

Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

## DIMENSIONS

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	SCHEDULE 80S <input type="checkbox"/> < SELECT				
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	Approx Weight
<input type="checkbox"/>	¾ x ¾	1.050	0.675	1 ½	0.742	0.423	0.154	0.126	0.37
<input type="checkbox"/>	¾ x ½	1.050	0.840	1 ½	0.742	0.546	0.154	0.147	0.40
<input type="checkbox"/>	1 x ¾	1.315	0.675	2	0.957	0.423	0.179	0.126	0.42
<input type="checkbox"/>	1 x ½	1.315	0.840	2	0.957	0.546	0.179	0.147	0.44
<input type="checkbox"/>	1 x ¾	1.315	1.050	2	0.957	0.742	0.179	0.154	0.49
<input type="checkbox"/>	1 ¼ x ½	1.660	0.840	2	1.278	0.546	0.191	0.147	0.52
<input type="checkbox"/>	1 ¼ x ¾	1.660	1.050	2	1.278	0.742	0.191	0.154	0.56
<input type="checkbox"/>	1 ¼ x 1	1.660	1.315	2	1.278	0.957	0.191	0.179	0.59
<input type="checkbox"/>	1 ½ x ½	1.900	0.840	2 ½	1.500	0.546	0.200	0.147	0.68
<input type="checkbox"/>	1 ½ x ¾	1.900	1.050	2 ½	1.500	0.742	0.200	0.154	0.71
<input type="checkbox"/>	1 ½ x 1	1.900	1.315	2 ½	1.500	0.957	0.200	0.179	0.74
<input type="checkbox"/>	1 ½ x 1 ¼	1.900	1.660	2 ½	1.500	1.278	0.200	0.191	0.80
<input type="checkbox"/>	2 x ¾	2.375	1.050	3	1.939	0.742	0.218	0.154	1.11
<input type="checkbox"/>	2 x 1	2.375	1.315	3	1.939	0.957	0.218	0.179	1.18
<input type="checkbox"/>	2 x 1 ¼	2.375	1.660	3	1.939	1.278	0.218	0.191	1.27
<input type="checkbox"/>	2 x 1 ½	2.375	1.900	3	1.939	1.500	0.218	0.200	1.30
<input type="checkbox"/>	2 ½ x 1	2.875	1.315	3 ½	2.323	0.957	0.276	0.179	1.92
<input type="checkbox"/>	2 ½ x 1 ¼	2.875	1.660	3 ½	2.323	1.278	0.276	0.191	1.98
<input type="checkbox"/>	2 ½ x 1 ½	2.875	1.900	3 ½	2.323	1.500	0.276	0.200	2.07
<input type="checkbox"/>	2 ½ x 2	2.875	2.375	3 ½	2.323	1.939	0.276	0.218	2.26
<input type="checkbox"/>	3 x 1	3.500	1.315	3 ½	2.900	0.957	0.300	0.179	2.39
<input type="checkbox"/>	3 x 1 ¼	3.500	1.660	3 ½	2.900	1.278	0.300	0.191	2.51
<input type="checkbox"/>	3 x 1 ½	3.500	1.900	3 ½	2.900	1.500	0.300	0.200	2.66
<input type="checkbox"/>	3 x 2	3.500	2.375	3 ½	2.900	1.939	0.300	0.218	2.85
<input type="checkbox"/>	3 x 2 ½	3.500	2.875	3 ½	2.900	2.323	0.300	0.276	3.28
<input type="checkbox"/>	3 ½ x 1 ¼	4.000	1.660	4	3.364	1.278	0.318	0.191	3.53
<input type="checkbox"/>	3 ½ x 1 ½	4.000	1.900	4	3.364	1.500	0.318	0.200	3.69

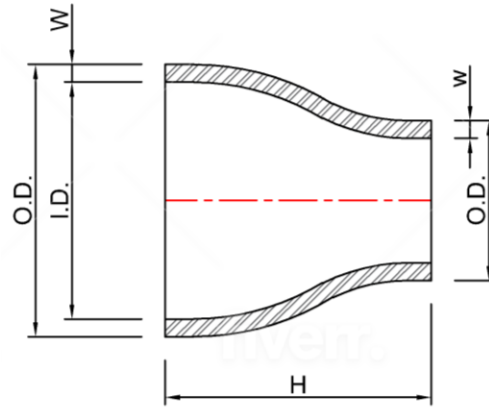
ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	SCHEDULE 80S <input type="checkbox"/> < SELECT				
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	Approx Weight
<input type="checkbox"/>	3 1/2 x 2	4.000	2.375	4	3.364	2.323	0.318	0.276	3.87
<input type="checkbox"/>	3 1/2 x 2 1/2	4.000	2.875	4	3.364	2.900	0.318	0.300	4.21
<input type="checkbox"/>	3 1/2 x 3	4.000	3.500	4	3.826	1.500	0.337	0.200	4.46
<input type="checkbox"/>	4 x 1 1/2	4.500	1.900	4	3.826	1.939	0.337	0.218	4.18
<input type="checkbox"/>	4 x 2	4.500	2.375	4	3.826	2.323	0.337	0.276	4.31
<input type="checkbox"/>	4 x 2 1/2	4.500	2.875	4	3.826	2.900	0.337	0.300	4.83
<input type="checkbox"/>	4 x 3	4.500	3.500	4	3.826	3.364	0.337	0.318	5.14
<input type="checkbox"/>	4 x 3 1/2	4.500	4.000	4	4.813	1.939	0.375	0.337	5.33
<input type="checkbox"/>	5 x 2	5.563	2.375	5	4.813	2.323	0.375	0.276	7.25
<input type="checkbox"/>	5 x 2 1/2	5.563	2.875	5	4.813	2.900	0.375	0.300	7.93
<input type="checkbox"/>	5 x 3	5.563	3.500	5	4.813	3.364	0.375	0.318	8.55
<input type="checkbox"/>	5 x 3 1/2	5.563	4.000	5	4.813	3.826	0.375	0.337	8.80
<input type="checkbox"/>	5 x 4	5.563	4.500	5	5.761	2.323	0.432	0.276	9.11
<input type="checkbox"/>	6 x 2 1/2	6.625	2.875	5 1/2	5.761	2.900	0.432	0.300	10.88
<input type="checkbox"/>	6 x 3	6.625	3.500	5 1/2	5.761	3.364	0.432	0.318	12.15
<input type="checkbox"/>	6 x 3 1/2	6.625	4.000	5 1/2	5.761	3.826	0.432	0.337	12.67
<input type="checkbox"/>	6 x 4	6.625	4.500	5 1/2	5.761	4.813	0.432	0.375	13.14
<input type="checkbox"/>	6 x 5	6.625	5.563	5 1/2	3.364	2.323	0.318	0.276	13.79
<input type="checkbox"/>	8 x 3 1/2	8.625	4.000	6	7.625	3.364	0.500	0.318	17.61
<input type="checkbox"/>	8 x 4	8.625	4.500	6	7.625	3.826	0.500	0.337	20.36
<input type="checkbox"/>	8 x 5	8.625	5.563	6	7.625	4.813	0.500	0.375	21.32
<input type="checkbox"/>	8 x 6	8.625	6.625	6	7.625	5.761	0.500	0.432	22.32
<input type="checkbox"/>	10 x 4	10.750	4.500	7	9.750	3.826	0.500	0.337	27.68
<input type="checkbox"/>	10 x 5	10.750	5.563	7	9.750	4.813	0.500	0.375	31.40
<input type="checkbox"/>	10 x 6	10.750	6.625	7	9.750	5.761	0.500	0.432	32.61
<input type="checkbox"/>	10 x 8	10.750	8.625	7	9.750	7.625	0.500	0.500	34.34
<input type="checkbox"/>	12 x 5	12.750	5.563	8	11.750	4.813	0.500	0.375	42.78
<input type="checkbox"/>	12 x 6	12.750	6.625	8	11.750	5.761	0.500	0.432	44.42
<input type="checkbox"/>	12 x 8	12.750	8.625	8	11.750	7.625	0.500	0.500	46.06
<input type="checkbox"/>	12 x 10	12.750	10.750	8	11.750	9.750	0.500	0.500	47.70
<input type="checkbox"/>	14 x 6	14.000	6.625	13	13.000	5.761	0.500	0.432	77.81
<input type="checkbox"/>	14 x 8	14.000	8.625	13	13.000	7.625	0.500	0.500	81.22
<input type="checkbox"/>	14 x 10	14.000	10.750	13	13.000	9.750	0.500	0.500	85.40
<input type="checkbox"/>	14 x 12	14.000	12.750	13	13.000	11.750	0.500	0.500	88.97
<input type="checkbox"/>	16 x 8	16.000	8.625	14	15.000	7.625	0.500	0.500	97.49
<input type="checkbox"/>	16 x 10	16.000	10.750	14	15.000	9.750	0.500	0.500	102.00
<input type="checkbox"/>	16 x 12	16.000	12.750	14	15.000	11.750	0.500	0.500	105.00
<input type="checkbox"/>	16 x 14	16.000	14.000	14	15.000	13.000	0.500	0.500	108.00
<input type="checkbox"/>	18 x 10	18.000	10.750	15	17.000	9.750	0.500	0.500	120.00
<input type="checkbox"/>	18 x 12	18.000	12.750	15	17.000	11.750	0.500	0.500	126.00
<input type="checkbox"/>	18 x 14	18.000	14.000	15	17.000	13.000	0.500	0.500	127.00
<input type="checkbox"/>	18 x 16	18.000	16.000	15	17.000	15.000	0.500	0.500	130.00
<input type="checkbox"/>	20 x 12	20.000	12.750	20	19.000	11.750	0.500	0.500	189.00
<input type="checkbox"/>	20 x 14	20.000	14.000	20	19.000	13.000	0.500	0.500	192.00
<input type="checkbox"/>	20 x 16	20.000	16.000	20	19.000	15.000	0.500	0.500	195.00
<input type="checkbox"/>	20 x 18	20.000	18.000	20	19.000	17.000	0.500	0.500	198.00
<input type="checkbox"/>	24 x 16	24.000	16.000	20	23.000	15.000	0.500	0.500	226.00
<input type="checkbox"/>	24 x 18	24.000	18.000	20	23.000	17.000	0.500	0.500	230.00
<input type="checkbox"/>	24 x 20	24.000	20.000	20	23.000	19.000	0.500	0.500	234.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

## ASTM A403, B16.9 CONCENTRIC REDUCERS



Grade:  304L  316L  \_\_\_\_\_  
Seam:  Welded  Seamless  WPWX  
Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

### DIMENSIONS

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	SCHEDULE 160S <input type="checkbox"/> <- SELECT				Approx Weight
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	
<input type="checkbox"/>	3/4 x 3/8	1.050	0.675	1 1/2	-----	-----	-----	-----	-----
<input type="checkbox"/>	3/4 x 1/2	1.050	0.840	1 1/2	0.612	0.466	0.219	0.187	0.55
<input type="checkbox"/>	1 x 3/8	1.315	0.675	2	-----	-----	-----	-----	-----
<input type="checkbox"/>	1 x 1/2	1.315	0.840	2	0.815	0.466	0.250	0.187	0.57
<input type="checkbox"/>	1 x 3/4	1.315	1.050	2	0.815	0.614	0.250	0.218	0.61
<input type="checkbox"/>	1 1/4 x 1/2	1.660	0.840	2	1.160	0.466	0.250	0.187	0.67
<input type="checkbox"/>	1 1/4 x 3/4	1.660	1.050	2	1.160	0.614	0.250	0.218	0.73
<input type="checkbox"/>	1 1/4 x 1	1.660	1.315	2	1.160	0.815	0.250	0.250	0.82
<input type="checkbox"/>	1 1/2 x 1/2	1.900	0.840	2 1/2	1.338	0.466	0.281	0.187	0.95
<input type="checkbox"/>	1 1/2 x 3/4	1.900	1.050	2 1/2	1.338	0.614	0.281	0.218	0.99
<input type="checkbox"/>	1 1/2 x 1	1.900	1.315	2 1/2	1.338	0.815	0.281	0.250	1.03
<input type="checkbox"/>	1 1/2 x 1 1/4	1.900	1.660	2 1/2	1.338	1.160	0.281	0.250	1.12
<input type="checkbox"/>	2 x 3/4	2.375	1.050	3	1.689	0.614	0.343	0.218	1.74
<input type="checkbox"/>	2 x 1	2.375	1.315	3	1.689	0.815	0.343	0.250	1.85
<input type="checkbox"/>	2 x 1 1/4	2.375	1.660	3	1.689	1.160	0.343	0.250	1.99
<input type="checkbox"/>	2 x 1 1/2	2.375	1.900	3	1.689	1.338	0.343	0.281	2.04
<input type="checkbox"/>	2 1/2 x 1	2.875	1.315	3 1/2	2.125	0.815	0.375	0.250	2.59
<input type="checkbox"/>	2 1/2 x 1 1/4	2.875	1.660	3 1/2	2.125	1.160	0.375	0.250	2.67
<input type="checkbox"/>	2 1/2 x 1 1/2	2.875	1.900	3 1/2	2.125	1.338	0.375	0.281	2.79
<input type="checkbox"/>	2 1/2 x 2	2.875	2.375	3 1/2	2.125	1.689	0.375	0.343	3.05
<input type="checkbox"/>	3 x 1	3.500	1.315	3 1/2	2.624	0.815	0.438	0.250	3.32
<input type="checkbox"/>	3 x 1 1/4	3.500	1.660	3 1/2	2.624	1.160	0.438	0.250	3.63
<input type="checkbox"/>	3 x 1 1/2	3.500	1.900	3 1/2	2.624	1.338	0.438	0.281	3.85
<input type="checkbox"/>	3 x 2	3.500	2.375	3 1/2	2.624	1.689	0.438	0.343	4.13
<input type="checkbox"/>	3 x 2 1/2	3.500	2.875	3 1/2	2.624	2.125	0.438	0.375	4.75
<input type="checkbox"/>	3 1/2 x 1 1/4	4.000	1.660	4	-----	-----	-----	-----	-----
<input type="checkbox"/>	3 1/2 x 1 1/2	4.000	1.900	4	-----	-----	-----	-----	-----

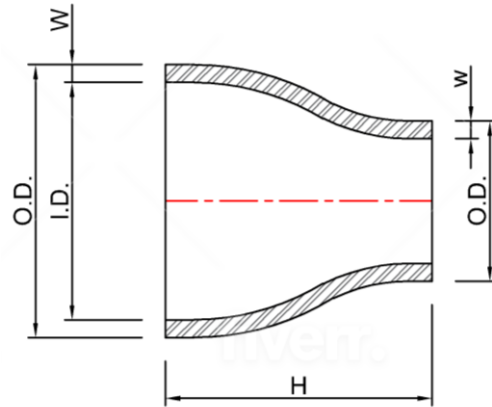
ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	SCHEDULE 160S <input type="checkbox"/> <- SELECT				Approx Weight
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	
<input type="checkbox"/>	3 ½ x 2	4.000	2.375	4	----	----	----	----	----
<input type="checkbox"/>	3 ½ x 2 ½	4.000	2.875	4	----	----	----	----	----
<input type="checkbox"/>	3 ½ x 3	4.000	3.500	4	----	----	----	----	----
<input type="checkbox"/>	4 x 1 ½	4.500	1.900	4	3.438	1.338	0.531	0.281	6.56
<input type="checkbox"/>	4 x 2	4.500	2.375	4	3.438	1.689	0.531	0.343	6.76
<input type="checkbox"/>	4 x 2 ½	4.500	2.875	4	3.438	2.125	0.531	0.375	7.58
<input type="checkbox"/>	4 x 3	4.500	3.500	4	3.438	2.624	0.531	0.438	8.07
<input type="checkbox"/>	4 x 3 ½	4.500	4.000	4	----	----	----	----	----
<input type="checkbox"/>	5 x 2	5.563	2.375	5	4.313	1.689	0.625	0.343	12.03
<input type="checkbox"/>	5 x 2 ½	5.563	2.875	5	4.313	2.125	0.625	0.375	13.16
<input type="checkbox"/>	5 x 3	5.563	3.500	5	4.313	2.624	0.625	0.438	14.19
<input type="checkbox"/>	5 x 3 ½	5.563	4.000	5	----	----	----	----	----
<input type="checkbox"/>	5 x 4	5.563	4.500	5	4.313	3.438	0.625	0.531	15.12
<input type="checkbox"/>	6 x 2 ½	6.625	2.875	5 ½	5.187	2.125	0.719	0.375	18.06
<input type="checkbox"/>	6 x 3	6.625	3.500	5 ½	5.187	2.624	0.719	0.438	20.17
<input type="checkbox"/>	6 x 3 ½	6.625	4.000	5 ½	----	----	----	----	----
<input type="checkbox"/>	6 x 4	6.625	4.500	5 ½	5.187	3.438	0.719	0.531	21.81
<input type="checkbox"/>	6 x 5	6.625	5.563	5 ½	5.187	4.313	0.719	0.625	22.89
<input type="checkbox"/>	8 x 3 ½	8.625	4.000	6	----	----	----	----	----
<input type="checkbox"/>	8 x 4	8.625	4.500	6	6.813	3.438	0.906	0.531	36.85
<input type="checkbox"/>	8 x 5	8.625	5.563	6	6.813	4.313	0.906	0.625	38.50
<input type="checkbox"/>	8 x 6	8.625	6.625	6	6.813	5.187	0.906	0.719	40.30
<input type="checkbox"/>	10 x 4	10.750	4.500	7	8.500	3.438	1.125	0.531	62.30
<input type="checkbox"/>	10 x 5	10.750	5.563	7	8.500	4.313	1.125	0.625	70.60
<input type="checkbox"/>	10 x 6	10.750	6.625	7	8.500	5.187	1.125	0.719	73.30
<input type="checkbox"/>	10 x 8	10.750	8.625	7	8.500	6.813	1.125	0.906	77.10
<input type="checkbox"/>	12 x 5	12.750	5.563	8	10.126	4.313	1.312	0.625	112.00
<input type="checkbox"/>	12 x 6	12.750	6.625	8	10.126	5.187	1.312	0.719	116.00
<input type="checkbox"/>	12 x 8	12.750	8.625	8	10.126	6.813	1.312	0.906	120.00
<input type="checkbox"/>	12 x 10	12.750	10.750	8	10.126	8.500	1.312	1.125	124.00
<input type="checkbox"/>	14 x 6	14.000	6.625	13	11.188	5.187	1.406	0.719	----
<input type="checkbox"/>	14 x 8	14.000	8.625	13	11.188	6.813	1.406	0.906	----
<input type="checkbox"/>	14 x 10	14.000	10.750	13	11.188	8.500	1.406	1.125	----
<input type="checkbox"/>	14 x 12	14.000	12.750	13	11.188	10.126	1.406	1.312	----
<input type="checkbox"/>	16 x 8	16.000	8.625	14	12.812	6.813	1.594	0.906	----
<input type="checkbox"/>	16 x 10	16.000	10.750	14	12.812	8.500	1.594	1.125	----
<input type="checkbox"/>	16 x 12	16.000	12.750	14	12.812	10.126	1.594	1.312	----
<input type="checkbox"/>	16 x 14	16.000	14.000	14	12.812	11.188	1.594	1.406	----
<input type="checkbox"/>	18 x 10	18.000	10.750	15	14.438	8.500	1.781	1.125	----
<input type="checkbox"/>	18 x 12	18.000	12.750	15	14.438	10.126	1.781	1.312	----
<input type="checkbox"/>	18 x 14	18.000	14.000	15	14.438	11.188	1.781	1.406	----
<input type="checkbox"/>	18 x 16	18.000	16.000	15	14.438	12.812	1.781	1.594	----
<input type="checkbox"/>	20 x 12	20.000	12.750	20	19.624	16.062	10.126	1.969	----
<input type="checkbox"/>	20 x 14	20.000	14.000	20	19.624	16.062	11.188	1.969	----
<input type="checkbox"/>	20 x 16	20.000	16.000	20	19.624	16.062	12.812	1.969	----
<input type="checkbox"/>	20 x 18	20.000	18.000	20	19.624	16.062	14.438	1.969	----
<input type="checkbox"/>	24 x 16	24.000	16.000	20	23.564	19.312	12.812	2.344	----
<input type="checkbox"/>	24 x 18	24.000	18.000	20	23.564	19.312	14.438	2.344	----
<input type="checkbox"/>	24 x 20	24.000	20.000	20	23.564	19.312	16.062	2.344	----

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**CONCENTRIC REDUCERS**



Grade:  304L  316L  \_\_\_\_\_  
Seam:  Welded  Seamless  WPWX  
Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	XX STRONG WALL <input type="checkbox"/> < SELECT				Approx Weight
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	
<input type="checkbox"/>	3/4 x 3/8	1.050	0.675	1 1/2	-----	-----	-----	-----	-----
<input type="checkbox"/>	3/4 x 1/2	1.050	0.840	1 1/2	0.434	0.252	0.308	0.294	0.80
<input type="checkbox"/>	1 x 3/8	1.315	0.675	2	-----	-----	-----	-----	-----
<input type="checkbox"/>	1 x 1/2	1.315	0.840	2	0.599	0.252	0.358	0.294	0.88
<input type="checkbox"/>	1 x 3/4	1.315	1.050	2	0.599	0.434	0.358	0.308	0.98
<input type="checkbox"/>	1 1/4 x 1/2	1.660	0.840	2	0.896	0.252	0.382	0.294	1.04
<input type="checkbox"/>	1 1/4 x 3/4	1.660	1.050	2	0.896	0.434	0.382	0.308	1.12
<input type="checkbox"/>	1 1/4 x 1	1.660	1.315	2	0.896	0.599	0.382	0.358	1.18
<input type="checkbox"/>	1 1/2 x 1/2	1.900	0.840	2 1/2	1.100	0.252	0.400	0.294	1.36
<input type="checkbox"/>	1 1/2 x 3/4	1.900	1.050	2 1/2	1.100	0.434	0.400	0.308	1.42
<input type="checkbox"/>	1 1/2 x 1	1.900	1.315	2 1/2	1.100	0.599	0.400	0.358	1.48
<input type="checkbox"/>	1 1/2 x 1 1/4	1.900	1.660	2 1/2	1.100	0.896	0.400	0.382	1.60
<input type="checkbox"/>	2 x 3/4	2.375	1.050	3	1.503	0.434	0.436	0.308	2.22
<input type="checkbox"/>	2 x 1	2.375	1.315	3	1.503	0.599	0.436	0.358	2.36
<input type="checkbox"/>	2 x 1 1/4	2.375	1.660	3	1.503	0.896	0.436	0.382	2.54
<input type="checkbox"/>	2 x 1 1/2	2.375	1.900	3	1.503	1.110	0.436	0.400	2.60
<input type="checkbox"/>	2 1/2 x 1	2.875	1.315	3 1/2	1.771	0.599	0.552	0.358	3.84
<input type="checkbox"/>	2 1/2 x 1 1/4	2.875	1.660	3 1/2	1.771	0.896	0.552	0.382	3.96
<input type="checkbox"/>	2 1/2 x 1 1/2	2.875	1.900	3 1/2	1.771	1.110	0.552	0.400	4.14
<input type="checkbox"/>	2 1/2 x 2	2.875	2.375	3 1/2	1.771	1.503	0.552	0.436	4.52
<input type="checkbox"/>	3 x 1	3.500	1.315	3 1/2	2.300	0.599	0.600	0.358	4.76
<input type="checkbox"/>	3 x 1 1/4	3.500	1.660	3 1/2	2.300	0.896	0.600	0.382	5.02
<input type="checkbox"/>	3 x 1 1/2	3.500	1.900	3 1/2	2.300	1.110	0.600	0.400	5.23
<input type="checkbox"/>	3 x 2	3.500	2.375	3 1/2	2.300	1.503	0.600	0.436	5.70
<input type="checkbox"/>	3 x 2 1/2	3.500	2.875	3 1/2	2.300	1.771	0.600	0.552	6.56
<input type="checkbox"/>	3 1/2 x 1 1/4	4.000	1.660	4	2.728	0.896	0.636	0.382	7.06
<input type="checkbox"/>	3 1/2 x 1 1/2	4.000	1.900	4	2.728	1.100	0.636	0.400	7.38

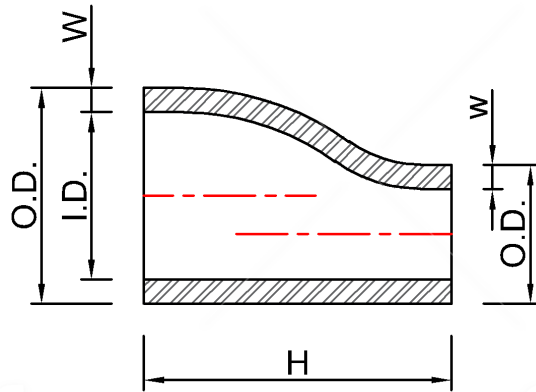
ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	XX STRONG WALL <input type="checkbox"/> < SELECT				Approx Weight
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	
<input type="checkbox"/>	3 1/2 x 2	4.000	2.375	4	2.728	1.771	0.636	0.552	7.74
<input type="checkbox"/>	3 1/2 x 2 1/2	4.000	2.875	4	2.728	2.300	0.636	0.600	8.42
<input type="checkbox"/>	3 1/2 x 3	4.000	3.500	4	3.152	1.100	0.674	0.400	8.92
<input type="checkbox"/>	4 x 1 1/2	4.500	1.900	4	3.152	1.503	0.674	0.436	8.36
<input type="checkbox"/>	4 x 2	4.500	2.375	4	3.152	1.771	0.674	0.552	8.62
<input type="checkbox"/>	4 x 2 1/2	4.500	2.875	4	3.152	2.300	0.674	0.600	9.66
<input type="checkbox"/>	4 x 3	4.500	3.500	4	3.152	2.728	0.674	0.636	10.28
<input type="checkbox"/>	4 x 3 1/2	4.500	4.000	4	4.063	1.503	0.750	0.436	10.66
<input type="checkbox"/>	5 x 2	5.563	2.375	5	4.063	1.771	0.750	0.552	14.50
<input type="checkbox"/>	5 x 2 1/2	5.563	2.875	5	4.063	2.300	0.750	0.600	15.86
<input type="checkbox"/>	5 x 3	5.563	3.500	5	4.063	2.728	0.750	0.636	17.10
<input type="checkbox"/>	5 x 3 1/2	5.563	4.000	5	4.063	3.152	0.750	0.674	17.60
<input type="checkbox"/>	5 x 4	5.563	4.500	5	4.897	1.771	0.864	0.552	18.22
<input type="checkbox"/>	6 x 2 1/2	6.625	2.875	5 1/2	4.897	2.300	0.864	0.600	21.76
<input type="checkbox"/>	6 x 3	6.625	3.500	5 1/2	4.897	2.728	0.864	0.636	24.30
<input type="checkbox"/>	6 x 3 1/2	6.625	4.000	5 1/2	4.897	3.152	0.864	0.674	25.34
<input type="checkbox"/>	6 x 4	6.625	4.500	5 1/2	4.897	4.063	0.864	0.750	26.28
<input type="checkbox"/>	6 x 5	6.625	5.563	5 1/2	2.728	1.771	0.636	0.552	27.58
<input type="checkbox"/>	8 x 3 1/2	8.625	4.000	6	6.875	2.728	0.875	0.636	30.81
<input type="checkbox"/>	8 x 4	8.625	4.500	6	6.875	3.152	0.875	0.674	35.63
<input type="checkbox"/>	8 x 5	8.625	5.563	6	6.875	4.063	0.875	0.750	37.31
<input type="checkbox"/>	8 x 6	8.625	6.625	6	6.875	4.897	0.875	0.864	39.06
<input type="checkbox"/>	10 x 4	10.750	4.500	7	-----	-----	-----	-----	-----
<input type="checkbox"/>	10 x 5	10.750	5.563	7	-----	-----	-----	-----	-----
<input type="checkbox"/>	10 x 6	10.750	6.625	7	-----	-----	-----	-----	-----
<input type="checkbox"/>	10 x 8	10.750	8.625	7	-----	-----	-----	-----	-----
<input type="checkbox"/>	12 x 5	12.750	5.563	8	-----	-----	-----	-----	-----
<input type="checkbox"/>	12 x 6	12.750	6.625	8	-----	-----	-----	-----	-----
<input type="checkbox"/>	12 x 8	12.750	8.625	8	-----	-----	-----	-----	-----
<input type="checkbox"/>	12 x 10	12.750	10.750	8	-----	-----	-----	-----	-----
<input type="checkbox"/>	14 x 6	14.000	6.625	13	-----	-----	-----	-----	-----
<input type="checkbox"/>	14 x 8	14.000	8.625	13	-----	-----	-----	-----	-----
<input type="checkbox"/>	14 x 10	14.000	10.750	13	-----	-----	-----	-----	-----
<input type="checkbox"/>	14 x 12	14.000	12.750	13	-----	-----	-----	-----	-----
<input type="checkbox"/>	16 x 8	16.000	8.625	14	-----	-----	-----	-----	-----
<input type="checkbox"/>	16 x 10	16.000	10.750	14	-----	-----	-----	-----	-----
<input type="checkbox"/>	16 x 12	16.000	12.750	14	-----	-----	-----	-----	-----
<input type="checkbox"/>	16 x 14	16.000	14.000	14	-----	-----	-----	-----	-----
<input type="checkbox"/>	18 x 10	18.000	10.750	15	-----	-----	-----	-----	-----
<input type="checkbox"/>	18 x 12	18.000	12.750	15	-----	-----	-----	-----	-----
<input type="checkbox"/>	18 x 14	18.000	14.000	15	-----	-----	-----	-----	-----
<input type="checkbox"/>	18 x 16	18.000	16.000	15	-----	-----	-----	-----	-----
<input type="checkbox"/>	20 x 12	20.000	12.750	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	20 x 14	20.000	14.000	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	20 x 16	20.000	16.000	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	20 x 18	20.000	18.000	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	24 x 16	24.000	16.000	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	24 x 18	24.000	18.000	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	24 x 20	24.000	20.000	20	-----	-----	-----	-----	-----

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
 Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**ECCENTRIC REDUCERS**



Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	XX STRONG WALL <input type="checkbox"/> < SELECT				Approx Weight
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	
<input type="checkbox"/>	3/4 x 3/8	1.050	0.675	1 1/2	-----	-----	-----	-----	-----
<input type="checkbox"/>	3/4 x 1/2	1.050	0.840	1 1/2	0.434	0.252	0.308	0.294	0.80
<input type="checkbox"/>	1 x 3/8	1.315	0.675	2	-----	-----	-----	-----	-----
<input type="checkbox"/>	1 x 1/2	1.315	0.840	2	0.599	0.252	0.358	0.294	0.88
<input type="checkbox"/>	1 x 3/4	1.315	1.050	2	0.599	0.434	0.358	0.308	0.98
<input type="checkbox"/>	1 1/4 x 1/2	1.660	0.840	2	0.896	0.252	0.382	0.294	1.04
<input type="checkbox"/>	1 1/4 x 3/4	1.660	1.050	2	0.896	0.434	0.382	0.308	1.12
<input type="checkbox"/>	1 1/4 x 1	1.660	1.315	2	0.896	0.599	0.382	0.358	1.18
<input type="checkbox"/>	1 1/2 x 1/2	1.900	0.840	2 1/2	1.100	0.252	0.400	0.294	1.36
<input type="checkbox"/>	1 1/2 x 3/4	1.900	1.050	2 1/2	1.100	0.434	0.400	0.308	1.42
<input type="checkbox"/>	1 1/2 x 1	1.900	1.315	2 1/2	1.100	0.599	0.400	0.358	1.48
<input type="checkbox"/>	1 1/2 x 1 1/4	1.900	1.660	2 1/2	1.100	0.896	0.400	0.382	1.60
<input type="checkbox"/>	2 x 3/4	2.375	1.050	3	1.503	0.434	0.436	0.308	2.22
<input type="checkbox"/>	2 x 1	2.375	1.315	3	1.503	0.599	0.436	0.358	2.36
<input type="checkbox"/>	2 x 1 1/4	2.375	1.660	3	1.503	0.896	0.436	0.382	2.54
<input type="checkbox"/>	2 x 1 1/2	2.375	1.900	3	1.503	1.110	0.436	0.400	2.60
<input type="checkbox"/>	2 1/2 x 1	2.875	1.315	3 1/2	1.771	0.599	0.552	0.358	3.84
<input type="checkbox"/>	2 1/2 x 1 1/4	2.875	1.660	3 1/2	1.771	0.896	0.552	0.382	3.96
<input type="checkbox"/>	2 1/2 x 1 1/2	2.875	1.900	3 1/2	1.771	1.110	0.552	0.400	4.14
<input type="checkbox"/>	2 1/2 x 2	2.875	2.375	3 1/2	1.771	1.503	0.552	0.436	4.52
<input type="checkbox"/>	3 x 1	3.500	1.315	3 1/2	2.300	0.599	0.600	0.358	4.76
<input type="checkbox"/>	3 x 1 1/4	3.500	1.660	3 1/2	2.300	0.896	0.600	0.382	5.02
<input type="checkbox"/>	3 x 1 1/2	3.500	1.900	3 1/2	2.300	1.110	0.600	0.400	5.23
<input type="checkbox"/>	3 x 2	3.500	2.375	3 1/2	2.300	1.503	0.600	0.436	5.70
<input type="checkbox"/>	3 x 2 1/2	3.500	2.875	3 1/2	2.300	1.771	0.600	0.552	6.56
<input type="checkbox"/>	3 1/2 x 1 1/4	4.000	1.660	4	2.728	0.896	0.636	0.382	7.06
<input type="checkbox"/>	3 1/2 x 1 1/2	4.000	1.900	4	2.728	1.100	0.636	0.400	7.38

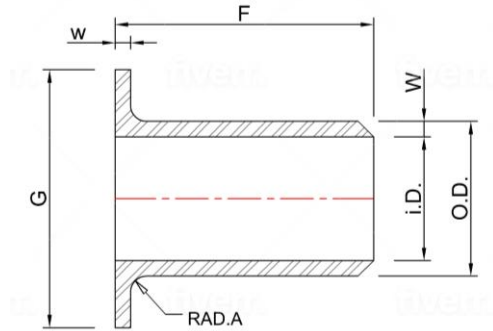
ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43

SELECT	NOMINAL PIPE SIZE Large End x Small End	OUTSIDE DIAMETER LARGE END (O.D.)	OUTSIDE DIAMETER SMALL END (O.D.)	LENGTH (L)	XX STRONG WALL <input type="checkbox"/> < SELECT				Approx Weight
					Inside Diameter Large End (I.D.)	Inside Diameter Small End (I.D.)	Wall Thickness Large End (W)	Wall Thickness Small End (w)	
<input type="checkbox"/>	3 1/2 x 2	4.000	2.375	4	2.728	1.771	0.636	0.552	7.74
<input type="checkbox"/>	3 1/2 x 2 1/2	4.000	2.875	4	2.728	2.300	0.636	0.600	8.42
<input type="checkbox"/>	3 1/2 x 3	4.000	3.500	4	3.152	1.100	0.674	0.400	8.92
<input type="checkbox"/>	4 x 1 1/2	4.500	1.900	4	3.152	1.503	0.674	0.436	8.36
<input type="checkbox"/>	4 x 2	4.500	2.375	4	3.152	1.771	0.674	0.552	8.62
<input type="checkbox"/>	4 x 2 1/2	4.500	2.875	4	3.152	2.300	0.674	0.600	9.66
<input type="checkbox"/>	4 x 3	4.500	3.500	4	3.152	2.728	0.674	0.636	10.28
<input type="checkbox"/>	4 x 3 1/2	4.500	4.000	4	4.063	1.503	0.750	0.436	10.66
<input type="checkbox"/>	5 x 2	5.563	2.375	5	4.063	1.771	0.750	0.552	14.50
<input type="checkbox"/>	5 x 2 1/2	5.563	2.875	5	4.063	2.300	0.750	0.600	15.86
<input type="checkbox"/>	5 x 3	5.563	3.500	5	4.063	2.728	0.750	0.636	17.10
<input type="checkbox"/>	5 x 3 1/2	5.563	4.000	5	4.063	3.152	0.750	0.674	17.60
<input type="checkbox"/>	5 x 4	5.563	4.500	5	4.897	1.771	0.864	0.552	18.22
<input type="checkbox"/>	6 x 2 1/2	6.625	2.875	5 1/2	4.897	2.300	0.864	0.600	21.76
<input type="checkbox"/>	6 x 3	6.625	3.500	5 1/2	4.897	2.728	0.864	0.636	24.30
<input type="checkbox"/>	6 x 3 1/2	6.625	4.000	5 1/2	4.897	3.152	0.864	0.674	25.34
<input type="checkbox"/>	6 x 4	6.625	4.500	5 1/2	4.897	4.063	0.864	0.750	26.28
<input type="checkbox"/>	6 x 5	6.625	5.563	5 1/2	2.728	1.771	0.636	0.552	27.58
<input type="checkbox"/>	8 x 3 1/2	8.625	4.000	6	6.875	2.728	0.875	0.636	30.81
<input type="checkbox"/>	8 x 4	8.625	4.500	6	6.875	3.152	0.875	0.674	35.63
<input type="checkbox"/>	8 x 5	8.625	5.563	6	6.875	4.063	0.875	0.750	37.31
<input type="checkbox"/>	8 x 6	8.625	6.625	6	6.875	4.897	0.875	0.864	39.06
<input type="checkbox"/>	10 x 4	10.750	4.500	7	-----	-----	-----	-----	-----
<input type="checkbox"/>	10 x 5	10.750	5.563	7	-----	-----	-----	-----	-----
<input type="checkbox"/>	10 x 6	10.750	6.625	7	-----	-----	-----	-----	-----
<input type="checkbox"/>	10 x 8	10.750	8.625	7	-----	-----	-----	-----	-----
<input type="checkbox"/>	12 x 5	12.750	5.563	8	-----	-----	-----	-----	-----
<input type="checkbox"/>	12 x 6	12.750	6.625	8	-----	-----	-----	-----	-----
<input type="checkbox"/>	12 x 8	12.750	8.625	8	-----	-----	-----	-----	-----
<input type="checkbox"/>	12 x 10	12.750	10.750	8	-----	-----	-----	-----	-----
<input type="checkbox"/>	14 x 6	14.000	6.625	13	-----	-----	-----	-----	-----
<input type="checkbox"/>	14 x 8	14.000	8.625	13	-----	-----	-----	-----	-----
<input type="checkbox"/>	14 x 10	14.000	10.750	13	-----	-----	-----	-----	-----
<input type="checkbox"/>	14 x 12	14.000	12.750	13	-----	-----	-----	-----	-----
<input type="checkbox"/>	16 x 8	16.000	8.625	14	-----	-----	-----	-----	-----
<input type="checkbox"/>	16 x 10	16.000	10.750	14	-----	-----	-----	-----	-----
<input type="checkbox"/>	16 x 12	16.000	12.750	14	-----	-----	-----	-----	-----
<input type="checkbox"/>	16 x 14	16.000	14.000	14	-----	-----	-----	-----	-----
<input type="checkbox"/>	18 x 10	18.000	10.750	15	-----	-----	-----	-----	-----
<input type="checkbox"/>	18 x 12	18.000	12.750	15	-----	-----	-----	-----	-----
<input type="checkbox"/>	18 x 14	18.000	14.000	15	-----	-----	-----	-----	-----
<input type="checkbox"/>	18 x 16	18.000	16.000	15	-----	-----	-----	-----	-----
<input type="checkbox"/>	20 x 12	20.000	12.750	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	20 x 14	20.000	14.000	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	20 x 16	20.000	16.000	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	20 x 18	20.000	18.000	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	24 x 16	24.000	16.000	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	24 x 18	24.000	18.000	20	-----	-----	-----	-----	-----
<input type="checkbox"/>	24 x 20	24.000	20.000	20	-----	-----	-----	-----	-----

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
 Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**STUB ENDS TYPE A - LONG**



TYPE A

STUB ENDS - LONG TYPE A

Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

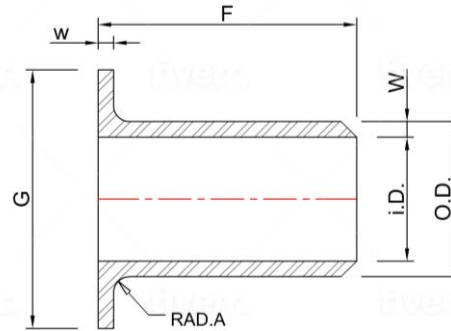
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	DIAMETER (G)	LENGTH (F)	RADIUS (A)	SCHEDULE 10S <input type="checkbox"/> <- SELECT			
						Inside Diameter (I.D.)	Wall Thickness (W)	Lap Thickness (w)	Approx Weight
<input type="checkbox"/>	½	0.840	1.375	3	1/8	0.674	0.083	0.083	0.16
<input type="checkbox"/>	¾	1.050	1.688	3	1/8	0.884	0.083	0.083	0.21
<input type="checkbox"/>	1	1.315	2.000	4	1/8	1.097	0.109	0.109	0.35
<input type="checkbox"/>	1 ¼	1.660	2.500	4	3/16	1.442	0.109	0.109	0.49
<input type="checkbox"/>	1 ½	1.900	2.875	4	1/4	1.682	0.109	0.109	0.56
<input type="checkbox"/>	2	2.375	3.625	6	5/16	2.157	0.109	0.109	0.94
<input type="checkbox"/>	2 ½	2.875	4.125	6	5/16	2.635	0.120	0.120	1.25
<input type="checkbox"/>	3	3.500	5.000	6	3/8	3.260	0.120	0.120	1.60
<input type="checkbox"/>	3 ½	4.000	5.500	6	3/8	3.760	0.120	0.120	1.90
<input type="checkbox"/>	4	4.500	6.188	6	7/16	4.260	0.120	0.120	2.40
<input type="checkbox"/>	5	5.563	7.313	8	7/16	5.295	0.134	0.134	3.25
<input type="checkbox"/>	6	6.625	8.500	8	1/2	6.357	0.134	0.134	4.75
<input type="checkbox"/>	8	8.625	10.625	8	1/2	8.329	0.148	0.148	7.10
<input type="checkbox"/>	10	10.750	12.750	10	1/2	10.420	0.165	0.165	11.30
<input type="checkbox"/>	12	12.750	15.000	10	1/2	12.390	0.180	0.180	18.00
<input type="checkbox"/>	14	14.000	16.250	12	1/2	13.624	0.188	0.188	24.00
<input type="checkbox"/>	16	16.000	18.500	12	1/2	15.624	0.188	0.188	28.00
<input type="checkbox"/>	18	18.000	21.000	12	1/2	17.624	0.188	0.188	38.00
<input type="checkbox"/>	20	20.000	23.000	12	1/2	19.564	0.218	0.218	48.00
<input type="checkbox"/>	24	24.000	27.250	12	1/2	23.500	0.250	0.250	60.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**STUB ENDS TYPE A - LONG**



TYPE A

STUB ENDS - LONG TYPE A

Grade:  304L  316L  \_\_\_\_\_  
Seam:  Welded  Seamless  WPWX  
Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

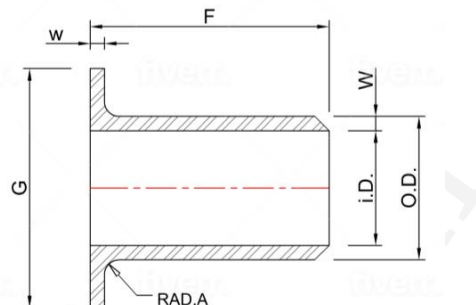
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	DIAMETER (G)	LENGTH (F)	RADIUS (A)	SCHEDULE 40S <input type="checkbox"/> < SELECT			
						Inside Diameter (I.D.)	Wall Thickness (W)	Lap Thickness (w)	Approx Weight
<input type="checkbox"/>	1/2	0.840	1.375	3	1/8	0.622	0.109	0.109	0.26
<input type="checkbox"/>	3/4	1.050	1.688	3	1/8	0.824	0.113	0.113	0.36
<input type="checkbox"/>	1	1.315	2.000	4	1/8	1.049	0.133	0.133	0.68
<input type="checkbox"/>	1 1/4	1.660	2.500	4	3/16	1.380	0.140	0.140	0.97
<input type="checkbox"/>	1 1/2	1.900	2.875	4	1/4	1.610	0.145	0.145	1.20
<input type="checkbox"/>	2	2.375	3.625	6	5/16	2.067	0.154	0.154	2.25
<input type="checkbox"/>	2 1/2	2.875	4.125	6	5/16	2.469	0.203	0.203	3.40
<input type="checkbox"/>	3	3.500	5.000	6	3/8	3.068	0.216	0.216	4.65
<input type="checkbox"/>	3 1/2	4.000	5.500	6	3/8	3.548	0.226	0.226	5.89
<input type="checkbox"/>	4	4.500	6.188	6	7/16	4.026	0.237	0.237	6.83
<input type="checkbox"/>	5	5.563	7.313	8	7/16	5.047	0.258	0.258	11.88
<input type="checkbox"/>	6	6.625	8.500	8	1/2	6.065	0.280	0.280	15.18
<input type="checkbox"/>	8	8.625	10.625	8	1/2	7.981	0.322	0.322	23.81
<input type="checkbox"/>	10	10.750	12.750	10	1/2	10.020	0.365	0.365	39.50
<input type="checkbox"/>	12	12.750	15.000	10	1/2	12.000	0.375	0.375	48.50
<input type="checkbox"/>	14	14.000	16.250	12	1/2	13.250	0.375	0.375	63.00
<input type="checkbox"/>	16	16.000	18.500	12	1/2	15.250	0.375	0.375	73.50
<input type="checkbox"/>	18	18.000	21.000	12	1/2	17.250	0.375	0.375	99.00
<input type="checkbox"/>	20	20.000	23.000	12	1/2	19.250	0.375	0.375	108.00
<input type="checkbox"/>	24	24.000	27.250	12	1/2	23.250	0.375	0.375	139.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
 Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**STUB ENDS TYPE A - LONG**



TYPE A

STUB ENDS - LONG TYPE A

Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

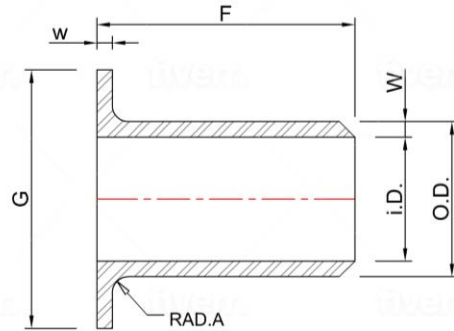
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	DIAMETER (G)	LENGTH (F)	RADIUS (A)	SCHEDULE 80S <input type="checkbox"/> <- SELECT			Approx Weight
						Inside Diameter (I.D.)	Wall Thickness (W)	Lap Thickness (w)	
<input type="checkbox"/>	½	0.840	1.375	3	1/8	0.546	0.147	0.147	0.34
<input type="checkbox"/>	¾	1.050	1.688	3	1/8	0.742	0.154	0.154	0.47
<input type="checkbox"/>	1	1.315	2.000	4	1/8	0.957	0.179	0.179	0.88
<input type="checkbox"/>	1 ¼	1.660	2.500	4	3/16	1.278	0.191	0.191	1.26
<input type="checkbox"/>	1 ½	1.900	2.875	4	1/4	1.500	0.200	0.200	1.49
<input type="checkbox"/>	2	2.375	3.625	6	5/16	1.939	0.218	0.218	3.05
<input type="checkbox"/>	2 ½	2.875	4.125	6	5/16	2.323	0.276	0.276	4.40
<input type="checkbox"/>	3	3.500	5.000	6	3/8	2.900	0.300	0.300	6.50
<input type="checkbox"/>	3 ½	4.000	5.500	6	3/8	3.364	0.318	0.318	7.75
<input type="checkbox"/>	4	4.500	6.188	6	7/16	3.826	0.337	0.337	9.65
<input type="checkbox"/>	5	5.563	7.313	8	7/16	4.813	0.375	0.375	16.33
<input type="checkbox"/>	6	6.625	8.500	8	1/2	5.761	0.432	0.432	22.63
<input type="checkbox"/>	8	8.625	10.625	8	1/2	7.625	0.500	0.500	34.12
<input type="checkbox"/>	10	10.750	12.750	10	1/2	9.750	0.500	0.500	54.00
<input type="checkbox"/>	12	12.750	15.000	10	1/2	11.750	0.500	0.500	64.50
<input type="checkbox"/>	14	14.000	16.250	12	1/2	13.000	0.500	0.500	84.00
<input type="checkbox"/>	16	16.000	18.500	12	1/2	15.000	0.500	0.500	98.00
<input type="checkbox"/>	18	18.000	21.000	12	1/2	17.000	0.500	0.500	136.00
<input type="checkbox"/>	20	20.000	23.000	12	1/2	19.000	0.500	0.500	157.00
<input type="checkbox"/>	24	24.000	27.250	12	1/2	23.000	0.500	0.500	178.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**STUB ENDS TYPE A - LONG**



TYPE A

STUB ENDS - LONG TYPE A

Grade:  304L  316L  \_\_\_\_\_  
Seam:  Welded  Seamless  WPWX  
Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

**DIMENSIONS**

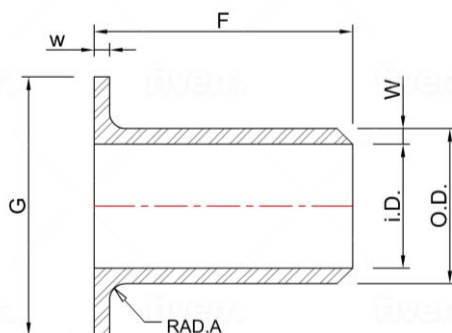
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	DIAMETER (G)	LENGTH (F)		RADIUS (A)	SCHEDULE 160S <input type="checkbox"/> <- SELECT			
				Short	Long		Inside Diameter (I.D.)	Wall Thickness (W)	Lap Thickness (w)	Approx Weight
<input type="checkbox"/>	1/2	0.840	1.375	2	3	1/8	0.464	0.188	0.188	0.43
<input type="checkbox"/>	3/4	1.050	1.688	2	3	1/8	0.612	0.219	0.218	0.66
<input type="checkbox"/>	1	1.315	2.000	2	4	1/8	0.815	0.250	0.250	1.22
<input type="checkbox"/>	1 1/4	1.660	2.500	2	4	3/16	1.160	0.250	0.250	1.4
<input type="checkbox"/>	1 1/2	1.900	2.875	2	4	1/4	1.338	0.281	0.281	2.08
<input type="checkbox"/>	2	2.375	3.625	2 1/2	6	5/16	1.689	0.343	0.343	4.79
<input type="checkbox"/>	2 1/2	2.875	4.125	2 1/2	6	5/16	2.125	0.375	0.375	5.94
<input type="checkbox"/>	3	3.500	5.000	2 1/2	6	3/8	2.624	0.438	0.438	7.10
<input type="checkbox"/>	3 1/2	4.000	5.500	3	6	3/8	-----	-----	-----	-----
<input type="checkbox"/>	4	4.500	6.188	3	6	7/16	3.438	0.531	0.531	15.15
<input type="checkbox"/>	5	5.563	7.313	3	8	7/16	4.313	0.625	0.625	27.10
<input type="checkbox"/>	6	6.625	8.500	3 1/2	8	1/2	5.187	0.719	0.719	37.56
<input type="checkbox"/>	8	8.625	10.625	4	8	1/2	6.813	0.906	0.906	61.75
<input type="checkbox"/>	10	10.750	12.750	5	10	1/2	8.500	1.125	1.125	121.50
<input type="checkbox"/>	12	12.750	15.000	6	10	1/2	10.126	1.312	1.312	169.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**STUB ENDS TYPE A - LONG**



TYPE A

STUB ENDS - LONG TYPE A

Grade: 304L 316L \_\_\_\_\_  
Seam: Welded Seamless WPWX  
Source: Import Domestic BAA AIS \_\_\_\_\_

**DIMENSIONS**

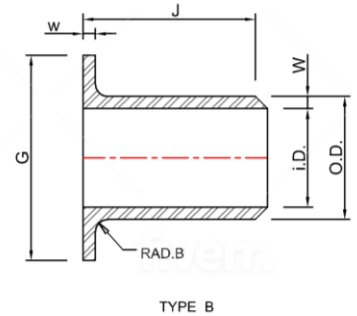
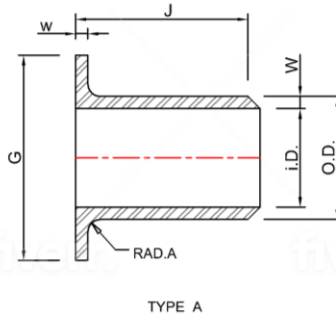
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	DIAMETER (G)	LENGTH (F)		RADIUS (A)	XX STRONG WALL <input type="checkbox"/> < SELECT			
				Short	Long		Inside Diameter (I.D.)	Wall Thickness (W)	Lap Thickness (w)	Approx Weight
<input type="checkbox"/>	½	0.840	1.375	2	3	1/8	0.252	0.294	0.294	0.68
<input type="checkbox"/>	¾	1.050	1.688	2	3	1/8	0.434	0.308	0.308	0.94
<input type="checkbox"/>	1	1.315	2.000	2	4	1/8	0.599	0.358	0.358	1.76
<input type="checkbox"/>	1 ¼	1.660	2.500	2	4	3/16	0.896	0.382	0.382	2.52
<input type="checkbox"/>	1 ½	1.900	2.875	2	4	1/4	1.100	0.400	0.400	2.98
<input type="checkbox"/>	2	2.375	3.625	2 ½	6	5/16	1.503	0.436	0.436	6.10
<input type="checkbox"/>	2 ½	2.875	4.125	2 ½	6	5/16	1.771	0.552	0.552	8.80
<input type="checkbox"/>	3	3.500	5.000	2 ½	6	3/8	2.300	0.600	0.600	9.80
<input type="checkbox"/>	3 ½	4.000	5.500	3	6	3/8	2.728	0.636	0.636	15.50
<input type="checkbox"/>	4	4.500	6.188	3	6	7/16	3.152	0.674	0.674	19.30
<input type="checkbox"/>	5	5.563	7.313	3	8	7/16	4.063	0.750	0.750	32.66
<input type="checkbox"/>	6	6.625	8.500	3 ½	8	1/2	4.897	0.864	0.864	45.26
<input type="checkbox"/>	8	8.625	10.625	4	8	1/2	6.875	0.875	0.875	59.71
<input type="checkbox"/>	10	10.750	12.750	5	10	1/2	-----	-----	-----	-----
<input type="checkbox"/>	12	12.750	15.000	6	10	1/2	-----	-----	-----	-----

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**STUB ENDS TYPE A OR B**



STUB ENDS - SHORT TYPE A OR B

Grade:  304L     316L     \_\_\_\_\_  
Seam:  Welded     Seamless     WPWX  
Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

**DIMENSIONS**

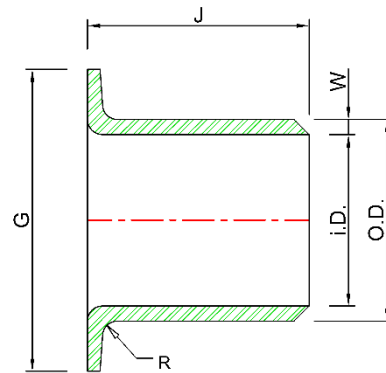
UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	DIAMETER (G)	LENGTH (J)		RADIUS (A)		SCHEDULE 40S <input type="checkbox"/> <- SELECT			Approx Weight
				Short	Long	A	B	Inside Diameter (I.D.)	Wall Thickness (W)	Lap Thickness (w)	
<input type="checkbox"/>	½	0.840	1.375	2	3	1/8	1/32	0.622	0.109	0.109	0.19
<input type="checkbox"/>	¾	1.050	1.688	2	3	1/8	1/32	0.824	0.113	0.113	0.26
<input type="checkbox"/>	1	1.315	2.000	2	4	1/8	1/32	1.049	0.133	0.133	0.38
<input type="checkbox"/>	1 ¼	1.660	2.500	2	4	3/16	1/32	1.380	0.140	0.140	0.55
<input type="checkbox"/>	1 ½	1.900	2.875	2	4	1/4	1/32	1.610	0.145	0.145	0.69
<input type="checkbox"/>	2	2.375	3.625	2 ½	6	5/16	1/32	2.067	0.154	0.154	1.35
<input type="checkbox"/>	2 ½	2.875	4.125	2 ½	6	5/16	1/32	2.469	0.203	0.203	1.77
<input type="checkbox"/>	3	3.500	5.000	2 ½	6	3/8	1/32	3.068	0.216	0.216	2.50
<input type="checkbox"/>	3 ½	4.000	5.500	3	6	3/8	1/32	3.548	0.226	0.226	3.58
<input type="checkbox"/>	4	4.500	6.188	3	6	7/16	1/32	4.026	0.237	0.237	4.13
<input type="checkbox"/>	5	5.563	7.313	3	8	7/16	1/16	5.047	0.258	0.258	6.15
<input type="checkbox"/>	6	6.625	8.500	3 ½	8	1/2	1/16	6.065	0.280	0.280	7.88
<input type="checkbox"/>	8	8.625	10.625	4	8	1/2	1/16	7.981	0.322	0.322	13.38
<input type="checkbox"/>	10	10.750	12.750	5	10	1/2	1/16	10.020	0.365	0.365	22.20
<input type="checkbox"/>	12	12.750	15.000	6	10	1/2	1/16	12.000	0.375	0.375	31.50
<input type="checkbox"/>	14	14.000	16.250	6	12	1/2	1/16	13.250	0.375	0.375	373.80
<input type="checkbox"/>	16	16.000	18.500	6	12	1/2	1/16	15.250	0.375	0.375	45.00
<input type="checkbox"/>	18	18.000	21.000	6	12	1/2	1/16	17.250	0.375	0.375	60.00
<input type="checkbox"/>	20	20.000	23.000	6	12	1/2	1/16	19.250	0.375	0.375	66.00
<input type="checkbox"/>	24	24.000	27.250	6	12	1/2	1/16	23.250	0.375	0.375	85.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
 Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**STUB ENDS TYPE C - SHORT**



TYPE C

STUB ENDS - SHORT TYPE C

Grade:  304L  316L  \_\_\_\_\_  
 Seam:  Welded  Seamless  WPWX  
 Source:  Import  Domestic  BAA  AIS  \_\_\_\_\_

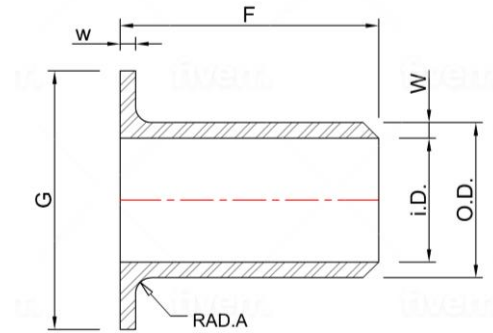
**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	DIAMETER (G)	LENGTH (F)	RADIUS (A)	SCHEDULE 5S <input type="checkbox"/> < SELECT		
						Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	½	0.840	1.375	2	1/32	0.710	0.065	0.13
<input type="checkbox"/>	¾	1.050	1.688	2	1/32	0.920	0.065	0.14
<input type="checkbox"/>	1	1.315	2.000	2	1/32	1.185	0.065	0.19
<input type="checkbox"/>	1 ¼	1.660	2.500	2	1/32	1.530	0.065	0.21
<input type="checkbox"/>	1 ½	1.900	2.875	2	1/32	1.770	0.065	0.29
<input type="checkbox"/>	2	2.375	3.625	2 ½	1/32	2.245	0.065	0.44
<input type="checkbox"/>	2 ½	2.875	4.125	2 ½	1/32	2.709	0.083	0.75
<input type="checkbox"/>	3	3.500	5.000	2 ½	1/32	3.334	0.083	0.94
<input type="checkbox"/>	4	4.500	6.188	3	1/32	4.334	0.083	1.38
<input type="checkbox"/>	5	5.563	7.313	3	1/16	5.345	0.109	2.06
<input type="checkbox"/>	6	6.625	8.500	3 ½	1/16	6.407	0.109	2.75
<input type="checkbox"/>	8	8.625	10.625	4	1/16	8.407	0.109	3.88
<input type="checkbox"/>	10	10.750	12.750	5	1/16	10.482	0.134	7.48
<input type="checkbox"/>	12	12.750	15.000	6	1/16	12.438	0.156	15.00
<input type="checkbox"/>	14	14.000	16.250	6	1/16	13.688	0.156	19.20
<input type="checkbox"/>	16	16.000	18.500	6	1/16	15.670	0.165	23.90
<input type="checkbox"/>	18	18.000	21.000	6	1/16	17.670	0.165	28.50
<input type="checkbox"/>	20	20.000	23.000	6	1/16	19.624	0.188	36.30
<input type="checkbox"/>	24	24.000	27.250	6	1/16	23.564	0.218	56.00

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43

**ASTM A403, B16.9**  
**STUB ENDS TYPE C - SHORT**



TYPE A

STUB ENDS - LONG TYPE A

- Grade:  304L     316L     \_\_\_\_\_  
 Seam:  Welded     Seamless     WPWX  
 Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	DIAMETER (G)	LENGTH (F)	RADIUS (A)	SCHEDULE 10S <input type="checkbox"/> <- SELECT		
						Inside Diameter (I.D.)	Wall Thickness (W)	Approx Weight
<input type="checkbox"/>	1/2	0.840	1.375	2	1/32	0.674	0.083	0.14
<input type="checkbox"/>	3/4	1.050	1.688	2	1/32	0.884	0.083	0.18
<input type="checkbox"/>	1	1.315	2.000	2	1/32	1.097	0.109	0.31
<input type="checkbox"/>	1 1/4	1.660	2.500	2	1/32	1.442	0.109	0.42
<input type="checkbox"/>	1 1/2	1.900	2.875	2	1/32	1.682	0.109	0.44
<input type="checkbox"/>	2	2.375	3.625	2 1/2	1/32	2.157	0.109	0.81
<input type="checkbox"/>	2 1/2	2.875	4.125	2 1/2	1/32	2.635	0.120	1.00
<input type="checkbox"/>	3	3.500	5.000	2 1/2	1/32	3.260	0.120	1.25
<input type="checkbox"/>	4	4.500	6.188	3	1/32	4.260	0.120	1.88
<input type="checkbox"/>	5	5.563	7.313	3	1/16	5.295	0.134	2.63
<input type="checkbox"/>	6	6.625	8.500	3 1/2	1/16	6.357	0.134	3.56
<input type="checkbox"/>	8	8.625	10.625	4	1/16	8.329	0.148	6.19
<input type="checkbox"/>	10	10.750	12.750	5	1/16	10.420	0.165	9.46
<input type="checkbox"/>	12	12.750	15.000	6	1/16	12.390	0.180	16.07
<input type="checkbox"/>	14	14.000	16.250	6	1/16	13.624	0.188	23.10
<input type="checkbox"/>	16	16.000	18.500	6	1/16	15.624	0.188	27.20
<input type="checkbox"/>	18	18.000	21.000	6	1/16	17.624	0.188	32.40
<input type="checkbox"/>	20	20.000	23.000	6	1/16	19.564	0.218	47.70
<input type="checkbox"/>	24	24.000	27.250	6	1/16	23.500	0.250	58.27

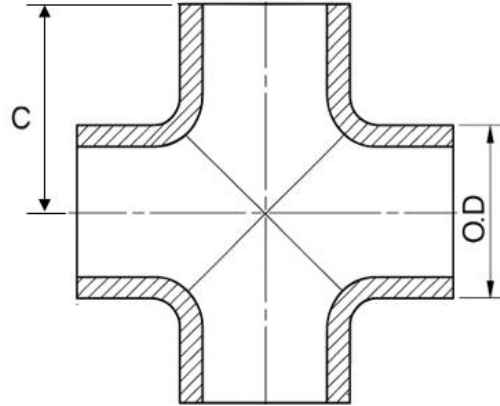
ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_

Job #: \_\_\_\_\_

## ASTM A403, B16.9

### CROSS



Grade:  304L     316L     \_\_\_\_\_  
 Seam:  Welded     Seamless     WPWX  
 Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

## DIMENSIONS

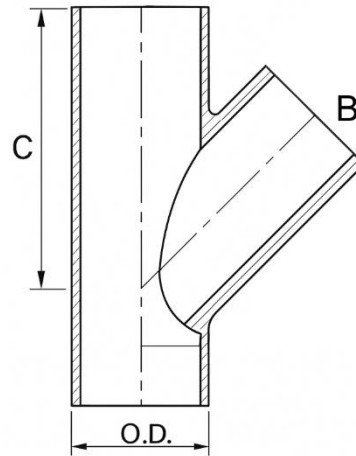
UOM: Inches/LBS

SCHEDULE 10S <input type="checkbox"/> < SELECT					
SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)clo	WALL (SCH 10S)	CENTER-TO-END (C)	APPROX WEIGHT
<input type="checkbox"/>	1	1.315	0.109	1.75	0.6
<input type="checkbox"/>	1 1/2	1.900	0.109	2.50	1.2
<input type="checkbox"/>	2	2.375	0.109	2.75	1.8
<input type="checkbox"/>	2 1/2	2.875	0.120	3.50	2.8
<input type="checkbox"/>	3	3.500	0.120	4.00	3.8
<input type="checkbox"/>	4	4.500	0.120	5.25	6.5
<input type="checkbox"/>	5	5.563	0.134	6.00	9.5
<input type="checkbox"/>	6	6.625	0.134	7.50	16.0
<input type="checkbox"/>	8	8.625	0.148	9.00	26.0
<input type="checkbox"/>	10	10.750	0.165	11.00	40.0
<input type="checkbox"/>	12	12.750	0.180	13.00	55.0

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
 (= Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
 Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**LATERAL**



Grade:  304L     316L     \_\_\_\_\_  
 Seam:  Welded     Seamless     WPWX  
 Source:  Import     Domestic     BAA     AIS     \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

SCHEDULE 10S <input type="checkbox"/> < SELECT						
SELECT	NOMINAL PIPE SIZE	OUTSIDE DIAMETER (O.D.)	WALL (SCH 10S)	CENTER-TO-END (C)	BRANCH CENTER-TO-END (B)	APPROX WEIGHT
<input type="checkbox"/>	1	1.315	0.109	1.50	1.50	0.4
<input type="checkbox"/>	1 1/2	1.900	0.109	2.25	2.25	0.8
<input type="checkbox"/>	2	2.375	0.109	2.50	2.50	1.2
<input type="checkbox"/>	2 1/2	2.875	0.120	3.00	3.00	1.8
<input type="checkbox"/>	3	3.500	0.120	3.38	3.38	2.4
<input type="checkbox"/>	4	4.500	0.120	4.13	4.13	3.8
<input type="checkbox"/>	5	5.563	0.134	5.00	5.00	5.5
<input type="checkbox"/>	6	6.625	0.134	6.00	6.00	7.8
<input type="checkbox"/>	8	8.625	0.148	7.00	7.00	12.0
<input type="checkbox"/>	10	10.750	0.165	8.50	8.50	18.0
<input type="checkbox"/>	12	12.750	0.180	10.00	10.00	25.0

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9 (≠ Wall) & MSS SP-43