

# LEE SUPPLY



# FORGED STEEL FITTINGS

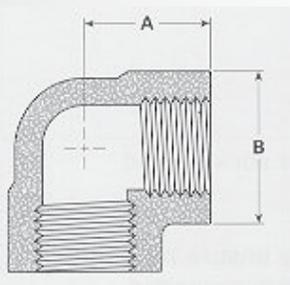


**Technical Specifications**

### THREADED FITTINGS

#### 90 ° ELBOWS

ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 2000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	3	3 3/8	4 3/16
Dimension B	7/8	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 11/16	4 3/8	5 3/4
Approx. Wt. #	.17	.17	.28	.49	.70	1.03	1.63	2.04	3.38	6.56	10.00	22.50

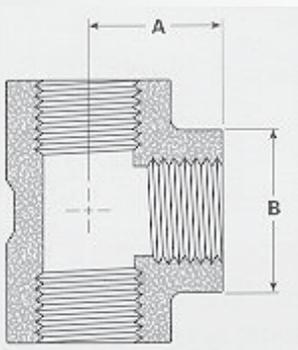
CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 1/2
Dimension B	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	4	4 3/4	6
Approx. Wt. #	.21	.31	.60	.91	1.43	2.28	2.88	4.88	5.44	10.00	17.13	29.25

CLASS 6000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 3/16	—
Dimension B	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	4	4 3/4	5 3/4	—
Approx. Wt. #	.25	.66	1.00	1.59	2.54	3.56	5.88	7.06	13.00	21.78	36.22	—

### THREADED FITTINGS

#### TEES

ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 2000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	3	3 3/8	4 3/16
Dimension B	7/8	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 5/8	4 5/16	5 3/4
Approx. Wt. #	.23	.26	.34	.69	.95	1.35	2.10	2.75	4.25	9.06	13.50	32.50

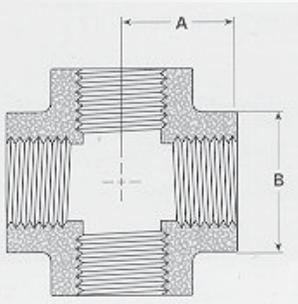
CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 1/2
Dimension B	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	4	4 3/4	6
Approx. Wt. #	.28	.43	.84	1.23	1.85	3.00	3.63	6.83	7.00	13.75	21.00	38.00

CLASS 6000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 3/16	—
Dimension B	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	4	4 3/4	5 3/4	—
Approx. Wt. #	.44	.92	1.38	2.16	3.63	4.83	7.75	9.75	17.38	28.90	49.60	—

### THREADED FITTINGS

#### CROSSES

ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 2000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	3	3 3/8	4 3/16
Dimension B	7/8	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 3/16	2 7/16	2 31/32	3 11/16	4 5/16	5 3/4
Approx. Wt. #	.50	.50	.40	.80	1.05	1.65	2.35	3.28	5.00	17.20	22.10	32.70

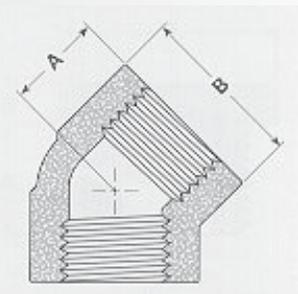
CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 1/2
Dimension B	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 3/16	2 7/16	2 31/32	3 5/16	4	4 3/4	6
Approx. Wt. #	.59	.50	.96	1.43	2.30	3.73	4.40	8.13	8.31	16.94	20.75	34.13

CLASS 6000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 3/16	—
Dimension B	1 3/64	1 5/16	1 1/2	1 13/16	2 3/16	2 7/16	2 31/32	3 5/16	4	4 3/4	5 3/4	—
Approx. Wt. #	.50	1.12	1.55	2.59	4.21	5.64	9.58	11.39	21.37	28.32	55.88	—

### THREADED FITTINGS

#### 45 ° ELBOWS

ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 2000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	13/16	3/4	7/8	1	1 1/8	1 5/16	1 3/8	1 11/16	2 1/16	2 1/2	3 1/8
Dimension B	---	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	3 1/32	3 1/32	4	4 5/8	5 3/4
Approx. Wt. #	---	.14	.23	.45	.59	.90	1.40	1.65	2.63	7.63	12.00	---

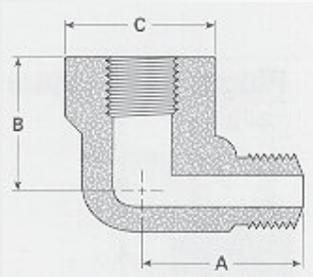
CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	3/4	3/4	7/8	1	1 1/8	1 5/16	1 3/8	1 11/16	1 13/16	2 1/8	2 9/16	3 1/8
Dimension B	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	4	4 3/4	5 3/4
Approx. Wt. #	.18	.26	.54	.75	1.18	2.03	2.13	4.05	4.25	7.63	12.00	19.75

CLASS 6000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	3/4	7/8	1	1 1/8	1 5/16	1 3/8	1 11/16	1 13/16	2 1/8	2 9/16	3 1/8	---
Dimension B	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	4	4 3/4	5 3/4	---
Approx. Wt. #	.25	.59	.85	1.34	2.25	2.59	4.56	5.75	9.63	15.46	31.21	---

### THREADED FITTINGS

### STREET ELBOWS

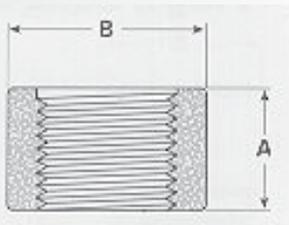
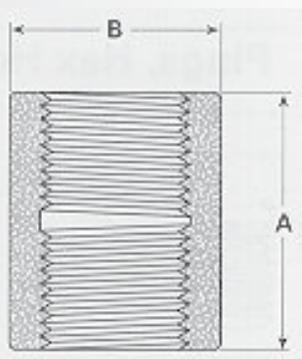
ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	1 1/4	1 1/2	1 5/8	1 7/8	2 1/4	2 5/8	2 13/16	3 5/16	---	---	---
Dimension B	---	7/8	1 1/8	1 1/4	1 3/8	1 3/4	2	2 1/8	2 1/2	---	---	---
Dimension C	---	1	1 5/16	1 1/2	1 3/4	2	2 7/16	2 3/4	3 5/16	---	---	---
Approx. Wt. #	---	.25	.36	.53	.85	1.38	2.25	2.81	5.09	---	---	---

## THREADED FITTINGS FULL AND HALF COUPLINGS

ASTM / ANSI A/SA105  
ASME B 16.11



## FULL COUPLING, REDUCER

### CLASS 3000 (Weight # refers to Full Coupling Only)

Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	1 1/4	1 3/8	1 1/2	1 7/8	2	2 3/8	2 5/8	3 1/8	3 3/8	3 5/8	4 1/4	4 3/4
Dimension B	3/4	3/4	7/8	1 1/8	1 3/8	1 3/4	2 1/4	2 1/2	3	3 5/8	4 1/4	5 1/2
Approx. Wt. #	.11	.10	.13	.28	.42	.85	1.50	2.19	3.02	4.56	6.79	12.00

### CLASS 6000 (Weight # refers to Full Coupling Only)

Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	1 1/4	1 3/8	1 1/2	1 7/8	2	2 3/8	2 5/8	3 1/8	3 3/8	3 5/8	4 1/4	4 3/4
Dimension B	7/8	1	1 1/4	1 1/2	1 3/4	2 1/4	2 1/2	3	3 5/8	4 1/4	5	6 1/4
Approx. Wt. #	.18	.14	.40	.69	.90	1.88	2.31	4.00	7.50	9.25	13.44	22.13

## HALF COUPLING

### CLASS 3000

Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	5/8	11/16	3/4	15/16	1	1 3/16	1 5/16	1 9/16	1 11/16	1 13/16	2 1/8	2 3/8
Dimension B	3/4	3/4	7/8	1 1/8	1 3/8	1 3/4	2 1/4	2 1/2	3	3 5/8	4 1/4	5 1/2
Approx. Wt. #	.06	.05	.06	.14	.21	.43	.75	1.09	1.57	2.28	3.40	6.00

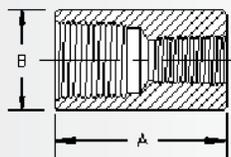
### CLASS 6000

Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	5/8	11/16	3/4	15/16	1	1 3/16	1 5/16	1 9/16	1 11/16	1 13/16	2 1/8	2 3/8
Dimension B	7/8	1	1 1/4	1 1/2	1 3/4	2 1/4	2 1/2	3	3 5/8	4 1/4	5	6 1/4
Approx. Wt. #	.09	.07	.20	.35	.45	.94	1.15	2.00	3.75	4.62	6.72	11.06

## THREADED FITTINGS

### REDUCERS

ASTM / ANSI A/SA105  
ASME B 16.11

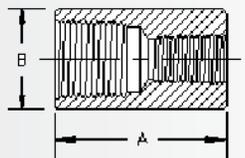


Class 3000.			
Pipe Size	Dimension A	Dimension B	Approx. Wt. #
1/4 X 1/8	1 3/8	3/4	0.1
3/8 X 1/8 3/8 X 1/4	1 1/2	7/8	0.13
1/2 X 1/8 1/2 X 1/4 1/2 X 3/8	1 7/8	1 1/8	0.28
3/4 X 1/8 3/4 X 1/4 3/4 X 3/8 3/4 X 1/2	2	1 3/8	0.42
1 X 1/8 1 X 1/4 1 X 3/8 1 X 1/2 1 X 3/4	2 3/8	1 3/4	0.85
1-1/4 X 1/8 1-1/4 X 1/4 1-1/4 X 3/8 1-1/4 X 1/2 1-1/4 X 3/4 1-1/4 X 1	2 5/8	2 1/4	1.50
1-1/2 X 1/8 1-1/2 X 1/4 1-1/2 X 3/8 1-1/2 X 1/2 1-1/2 X 3/4 1-1/2 X 1 1-1/2 X 1-1/4	3 1/8	2 1/2	2.19
2 X 1/8 2 X 1/4 2 X 3/8 2 X 1/2 2 X 3/4 2 X 1 2 X 1-1/4 2 X 1-1/2	3 3/8	3	3.02

## THREADED FITTINGS

### REDUCERS

ASTM / ANSI A/SA105  
ASME B 16.11

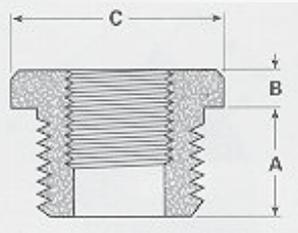


Class 3000.			
Pipe Size	Dimension A	Dimension B	Approx. Wt. #
2-1/2 X 1/8 2-1/2 X 1/4 2-1/2 X 3/8 2-1/2 X 1/2 2-1/2 X 3/4 2-1/2 X 1 2-1/2 X 1-1/4 2-1/2 X 1-1/2 2-1/2 X 2	3 5/8	3 5/8	4.56
3 X 1/8 3 X 1/4 3 X 3/8 3 X 1/2 3 X 3/4 3 X 1 3 X 1-1/4 3 X 1-1/2 3 X 2 3 X 2-1/2	4 1/4	4 1/4	6.79
4 X 1/8 4 X 1/4 4 X 3/8 4 X 1/2 4 X 3/4 4 X 1 4 X 1-1/4 4 X 1-1/2 4 X 2 4 X 2-1/2 4 X 3 4 X 3-1/2	4 3/4	5 1/2	12.00

### THREADED FITTINGS

### HEX BUSHINGS

ASTM / ANSI A/SA105  
ASME B 16.11



**Bushings are not identified by class. They may be used for ratings up to and including class 6000.**

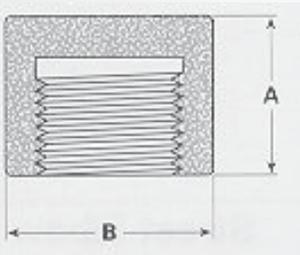
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	1/2	33/64	11/16	23/32	7/8	7/8	15/16	31/32	1 3/16	1 3/8	1 9/16
Dimension B	---	1/8	3/16	3/16	7/32	1/4	5/16	5/16	3/8	1/2	9/16	9/16
Dimension C	---	5/8	11/16	7/8	1/16	1 3/8	1 3/4	2	2 1/2	3	3 5/8	4 5/8
Approx. Wt. #	---	.063	.063	.063	.125	.188	.375	.688	1.62	2.37	3.50	8.31

### THREADED FITTINGS

#### CAPS

ASTM / ANSI A/SA105  
ASME B 16.11

Class 3000.												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	1 1/16	1 1/16	1 5/16	1 1/2	1 11/16	1 25/32	1 15/16	2 1/8	2 3/8	2 9/16	2 11/16
Dimension B	3/4	3/4	7/8	1 1/8	1 3/8	1 3/4	2 1/4	2 1/2	3	3 5/8	4 5/16	5 1/2
Approx. Wt. #	.08	.09	.11	.24	.39	.72	1.32	1.54	2.34	4.05	5.84	10.08



### THREADED FITTINGS

#### PLUGS

ASTM / ANSI A/SA105  
ASME B 16.11

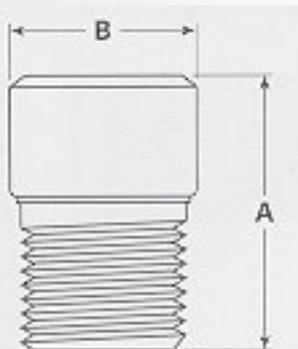
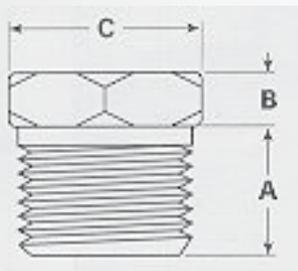
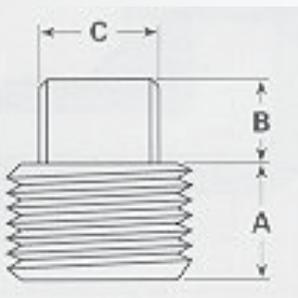
SOLID SQUARE HEAD*												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	3/8	7/16	1/2	9/16	5/8	3/4	13/16	13/16	7/8	1 1/16	1 1/8	1 1/4
Dimension B	1/4	1/4	5/16	3/8	7/16	1/2	5/8	5/8	3/4	3/4	13/16	1
Dimension C	9/32	3/8	7/16	9/16	5/8	13/16	15/16	1 1/8	1 5/16	1 1/2	1 11/16	2 1/2
Approx. Wt. #	.016	.031	.063	.0125	.188	.313	.563	.875	1.50	2.25	2.87	7.18

HEX HEAD*												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	7/16	19/32	33/64	11/16	23/32	7/8	7/8	15/16	31/32	1 3/16**	1 3/8**	1 9/16**
Dimension B	1/4	1/4	5/16	5/16	3/8	3/8	9/16	5/8	11/16	3/4	13/16	3/4
Dimension C	7/16	5/8	11/16	7/8	1 1/16	1 3/8	1 3/4	2	2 1/2	3	3 1/4	4 5/8
Approx. Wt. #	.06	.06	.07	.19	.30	.58	1.10	1.54	2.54	2.34	6.24	11.0

SOLID ROUND HEAD*												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	1 3/8	1 5/8	1 5/8	1 3/4	1 3/4	2	2	2	2 1/2	2 3/4	2 3/4	3
Dimension B	7/16	9/16	3/4	7/8	1 1/16	1 5/16	1 11/16	2	2 1/2	3	3 5/8	4 5/8
Approx. Wt. #	.06	.11	.20	.30	.44	.77	1.27	1.78	3.48	5.50	8.04	14.28

\* Plugs are not identified by class. They may be used for ratings up to and including class 6000.

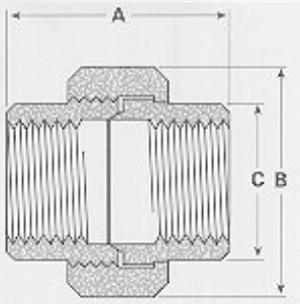
\*\* Not B16.11



### UNIONS

#### THREADED UNIONS

ASTM / ANSI A/SA105  
ASME B 16.11



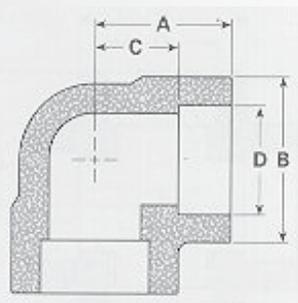
CLASS 3000 MSS-SP-83												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	1.69	1.69	1.85	1.96	2.28	2.49	2.82	3.05	3.45	4.13	4.31	--
Dimension B	1.38	1.38	1.57	1.85	2.20	2.56	3.06	3.42	4.09	4.88	5.75	--
Dimension C	0.88	0.88	1.03	1.23	1.46	1.80	2.18	2.47	3.03	3.65	4.40	--
Approx. Wt. #	.34	.34	.49	.68	1.19	1.68	2.54	3.33	5.30	8.60	12.70	--

CLASS 6000 Steel to Steel Seat												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	1.69	1.85	1.96	2.28	2.49	2.82	3.05	3.45	4.13	--	--	--
Dimension B	1.38	1.57	1.85	2.20	2.56	3.06	3.42	4.09	4.88	--	--	--
Dimension C	0.88	1.03	1.23	1.47	1.80	2.18	2.47	3.03	3.65	--	--	--
Approx. Wt. #	.36	.55	.75	1.36	2.00	3.10	5.85	6.55	10.50	--	--	--

### SOCKET WELD FITTINGS

#### 90 ° ELBOWS

ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	3	3 3/8	4 3/16
Dimension B	7/8	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 11/16	4 3/8	5 3/4
Dimension C	7/16	7/16	17/32	5/8	3/4	7/8	1 1/16	1 1/4	1 1/2	1 5/8	2 1/4	2 5/8
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	.20	.16	.25	.48	.68	1.06	1.59	2.13	3.78	6.74	10.94	24.13

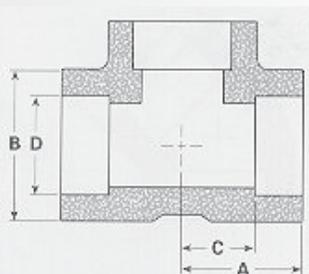
CLASS 6000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 1/2
Dimension B	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	4	4 3/4	6
Dimension C	7/16	17/32	5/8	3/4	7/8	1 1/16	1 1/4	1 1/2	1 5/8	2 1/4	2 1/2	2 7/8
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	.16	.25	.48	.88	1.38	2.63	3.00	5.31	6.00	10.47	18.84	31.54

CLASS 9000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	---	---	1 1/2	1 3/4	2	2 3/8	2 1/2	3	---	---	---
Dimension B	---	---	---	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	3 11/16	---	---	---
Dimension C	---	---	---	1	1 1/8	1 1/4	1 3/8	1 1/2	2 1/8	---	---	---
Dimension D	---	---	---	.855	1.065	1.330	1.675	1.915	2.406	---	---	---
Approx. Wt. #	---	---	---	1.44	2.25	4.09	5.25	6.69	12.00	---	---	---

### SOCKET WELD FITTINGS

#### TEES

ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	3	3 3/8	4 3/16
Dimension B	7/8	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 11/16	4 3/8	5 3/4
Dimension C	7/16	7/16	17/32	5/8	3/4	7/8	1 1/16	1 1/4	1 1/2	1 5/8	2 1/4	2 5/8
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	.23	.19	.33	.71	.87	1.44	2.19	2.98	4.57	8.60	13.00	31.30

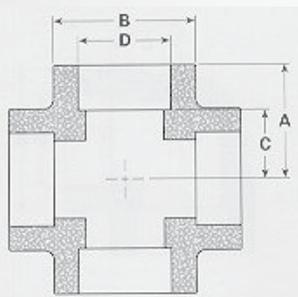
CLASS 6000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 1/2
Dimension B	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	4	4 3/4	6
Dimension C	7/16	17/32	5/8	3/4	7/8	1 1/16	1 1/4	1 1/2	1 5/8	2 1/4	2 1/2	2 7/8
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	---	---	---	1.16	1.94	3.17	3.95	7.13	7.72	15.30	23.10	34.90

CLASS 9000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	---	---	1 1/2	1 3/4	2	2 3/8	2 1/2	3	---	---	---
Dimension B	---	---	---	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	3 11/16	---	---	---
Dimension C	---	---	---	1	1 1/8	1 1/4	1 3/8	1 1/2	2 1/8	---	---	---
Dimension D	---	---	---	.855	1.065	1.330	1.675	1.915	2.406	---	---	---
Approx. Wt. #	---	---	---	2.37	4.00	5.35	6.50	7.88	8.75	---	---	---

### SOCKET WELD FITTINGS

#### CROSSES

ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	3	3 3/8	4 3/16
Dimension B	7/8	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 11/16	4 5/16	5 3/4
Dimension C	7/16	7/16	17/32	5/8	3/4	7/8	1 1/16	1 1/4	1 1/2	1 5/8	2 1/4	2 5/8
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	.47	.45	.34	.83	1.03	1.68	2.56	3.46	5.6	13.70	21.10	35.00

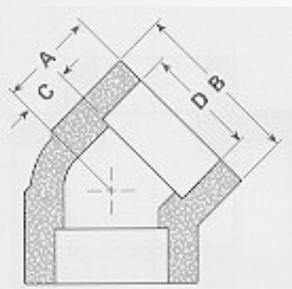
CLASS 6000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 1/2
Dimension B	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	4	4 3/4	6
Dimension C	7/16	17/32	5/8	3/4	7/8	1 1/16	1 1/4	1 1/2	1 5/8	2 1/4	2 1/2	2 7/8
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	---	---	---	1.38	2.29	3.75	4.65	8.70	9.30	18.10	24.10	38.80

CLASS 9000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	---	---	1 1/2	1 3/4	2	2 3/8	2 1/2	3	---	---	---
Dimension B	---	---	---	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	3 11/16	---	---	---
Dimension C	---	---	---	1	1 1/8	1 1/4	1 3/8	1 1/2	2 1/8	---	---	---
Dimension D	---	---	---	.855	1.065	1.330	1.675	1.915	2.406	---	---	---
Approx. Wt. #	---	---	---	2.50	4.12	1.12	5.12	9.44	22.19	---	---	---

### SOCKET WELD FITTINGS

#### 45 ° ELBOWS

ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	13/16	3/4	7/8	1	1 1/8	1 5/16	1 3/8	1 11/16	2 1/8	2 9/16	3 1/8
Dimension B	7/8	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	4	4 3/4	5 3/4
Dimension C	5/16	5/16	5/16	7/16	1/2	9/16	11/16	13/16	1	1 1/8	1 1/4	1 5/8
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	.15	.13	.20	.43	.58	.89	1.40	1.70	2.69	7.88	11.25	20.75

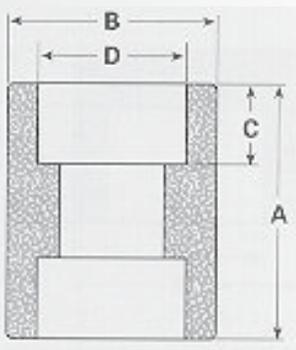
CLASS 6000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	13/16	3/4	7/8	1	1 1/8	1 5/16	1 3/8	1 11/16	1 13/16	2 1/8	2 9/16	3 1/8
Dimension B	7/8	1 3/64	1 5/16	1 1/2	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	4	4 3/4	5 3/4
Dimension C	5/16	5/16	7/16	1/2	9/16	11/16	13/16	1	1 1/8	1 1/8	1 1/4	1 5/8
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	---	---	---	.68	1.14	2.03	2.25	4.22	5.03	8.88	12.76	23.45

CLASS 9000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	---	---	1 1/8	1 5/16	1 3/8	1 11/16	1 13/16	2 1/16	---	---	---
Dimension B	---	---	---	1 13/16	2 1/4	2 1/2	3 1/32	3 5/16	4	---	---	---
Dimension C	---	---	---	5/8	3/4	13/16	7/8	1	1 1/8	---	---	---
Dimension D	---	---	---	.855	1.065	1.330	1.675	1.915	2.406	---	---	---
Approx. Wt. #	---	---	---	1.42	2.06	2.50	4.31	6.51	10.44	---	---	---

### SOCKET WELD FITTINGS

FULL COUPLING,  
REDUCER

ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	---	---	1 5/32	1 13/32	1 15/16	1 15/16	1 15/16	2	---	---	---
Dimension B	3/4	1	1 1/16	1 1/4	1 1/2	1 7/8	2 1/4	2 1/2	3	3 5/8	4 5/16	5 15/32
Dimension C	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	.09	.16	.16	.24	.39	.63	.80	.90	1.60	2.32	2.84	4.88

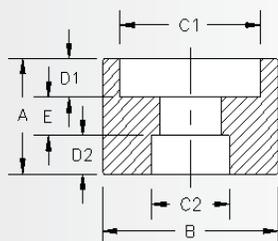
CLASS 6000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	---	---	1 5/32	1 13/32	1 15/16	1 15/16	1 15/16	2	---	---	---
Dimension B	7/8	1	1 1/8	1 3/8	1 11/16	2	2 1/2	2 3/4	3 5/8	4 1/4	5	6
Dimension C	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	.14	.16	.19	.34	.59	.83	1.26	1.44	3.63	4.60	6.04	8.53

CLASS 9000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	---	---	1 5/32	1 13/32	1 15/16	1 15/16	1 15/16	2	---	---	---
Dimension B	---	---	---	1 11/16	2	2 1/2	2 3/4	3	3 5/8	---	---	---
Dimension C	---	---	---	3/8	1/2	1/2	1/2	1/2	5/8	---	---	---
Dimension D	---	---	---	.855	1.065	1.330	1.675	1.915	2.406	---	---	---
Approx. Wt. #	---	---	---	.61	1.00	1.65	1.78	2.00	3.51	---	---	---

## SOCKET WELD FITTINGS

### REDUCERS

ASTM / ANSI A/SA105  
ASME B 16.11

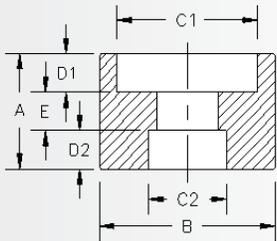


Class 3000.								
Pipe Size	Dimension A	Dimension B	Dimension C1	Dimension C2	Dimension D1	Dimension D2	Dimension E	Approx. Wt. #
1/4 X 1/8	1.030	0.875	.555/.575	.420/.430	0.395	0.395	0.250	0.18
3/8 X 1/8 3/8 X 1/4	1.030	1.063	.690/.710	.420/.430 .555/.575	0.395	0.395	0.250	0.18
1/2 X 1/8 1/2 X 1/4 1/2 X 3/8	1.095	1.250	.855/.875	.420/.430 .555/.575 .690/.710	0.395	0.395	0.380	0.26
3/4 X 1/8 3/4 X 1/4 3/4 X 3/8 3/4 X 1/2	1.335	1.500	1.065/1.085	.420/.430 .555/.575 .690/.710 .855/.875	0.515	0.515	0.380	0.41
1 X 1/8 1 X 1/4 1 X 3/8 1 X 1/2 1 X 3/4	1.415	1.875	1.330/1.350	.420/.430 .555/.575 .690/.710 .855/.875 1.065/1.085	0.515	0.515	0.500	0.65
1-1/4 X 1/8 1-1/4 X 1/4 1-1/4 X 3/8 1-1/4 X 1/2 1-1/4 X 3/4 1-1/4 X 1	1.415	2.250	1.675/1.695	.420/.430 .555/.575 .690/.710 .855/.875 1.065/1.085 1.330/1.350	0.515	0.515	0.500	0.82
1-1/2 X 1/8 1-1/2 X 1/4 1-1/2 X 3/8 1-1/2 X 1/2 1-1/2 X 3/4 1-1/2 X 1 1-1/2 X 1-1/4	1.415	2.500	1.915/1.935	.420/.430 .555/.575 .690/.710 .855/.875 1.065/1.085 1.330/1.350 1.675/1.695	0.515	0.515	0.500	0.92
2 X 1/8 2 X 1/4 2 X 3/8 2 X 1/2 2 X 3/4 2 X 1 2 X 1-1/4 2 X 1-1/2	1.905	3.000	2.406/2.426	.420/.430 .555/.575 .690/.710 .855/.875 1.065/1.085 1.330/1.350 1.675/1.695 1.915/1.935	0.635	0.635	0.750	1.62

## SOCKET WELD FITTINGS

### REDUCERS

ASTM / ANSI A/SA105  
ASME B 16.11

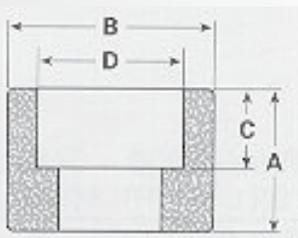


Class 3000.								
Pipe Size	Dimension A	Dimension B	Dimension C1	Dimension C2	Dimension D1	Dimension D2	Dimension E	Approx. Wt. #
2-1/2 X 1/8 * 2-1/2 X 1/4 * 2-1/2 X 3/8 * 2-1/2 X 1/2 * 2-1/2 X 3/4 * 2-1/2 X 1 * 2-1/2 X 1-1/4 * 2-1/2 X 1-1/2 * 2-1/2 X 2 *	1.865	3.625	2.906/2.931	.420/.430 .555/.575 .690/.710 .855/.875 1.065/1.085 1.330/1.350 1.675/1.695 1.915/1.935 2.406/2.426	0.635	0.635	0.750	2.61
3 X 1/8 * 3 X 1/4 * 3 X 3/8 * 3 X 1/2 * 3 X 3/4 * 3 X 1 * 3 X 1-1/4 * 3 X 1-1/2 * 3 X 2 * 3 X 2-1/2 *	1.865	4.312	3.535/3.550	.420/.430 .555/.575 .690/.710 .855/.875 1.065/1.085 1.330/1.350 1.675/1.695 1.915/1.935 2.406/2.426 2.906/2.931	0.635	0.635	0.750	3.13
3-1/2 X 1/8 * 3-1/2 X 1/4 * 3-1/2 X 3/8 * 3-1/2 X 1/2 * 3-1/2 X 3/4 * 3-1/2 X 1 * 3-1/2 X 1-1/4 * 3-1/2 X 1-1/2 * 3-1/2 X 2 * 3-1/2 X 2-1/2 * 3-1/2 X 3 *	2.125	5.000	4.040/4.055	.420/.430 .555/.575 .690/.710 .855/.875 1.065/1.085 1.330/1.350 1.675/1.695 1.915/1.935 2.406/2.426 2.906/2.931 3.535/3.550	0.765	0.765	0.750	4.15
4 X 1/8 * 4 X 1/4 * 4 X 3/8 * 4 X 1/2 * 4 X 3/4 * 4 X 1 * 4 X 1-1/4 * 4 X 1-1/2 * 4 X 2 * 4 X 2-1/2 * 4 X 3 * 4 X 3-1/2 *	2.125	5.500	4.545/4.570	.420/.430 .555/.575 .690/.710 .855/.875 1.065/1.085 1.330/1.350 1.675/1.695 1.915/1.935 2.406/2.426 2.906/2.931 3.535/3.550 4.040/4.055	0.765	0.765	0.750	5.17

### SOCKET WELD FITTINGS

#### HALF COUPLING

ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	1 1/32	1 1/32	1 1/32	1 9/32	1 15/32	1 5/8	1 11/16	1 3/4	2 1/4	2 15/16	2 3/8	2 5/8
Dimension B	3/4	1	1 1/16	1 1/4	1 1/2	1 7/8	2 1/4	2 1/2	3	3 5/8	4 5/16	5 15/32
Dimension C	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	.10	.17	.19	.30	.45	.78	1.05	1.26	2.11	3.27	4.26	7.06

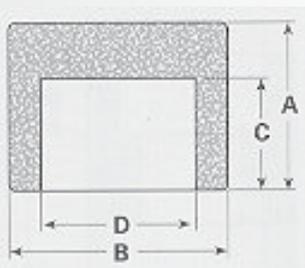
CLASS 6000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	1 1/32	1 1/32	1 1/32	1 9/32	1 15/32	1 5/8	1 11/16	1 3/4	2 1/4	2 15/16	2 3/8	2 5/8
Dimension B	7/8	1	1 1/8	1 3/8	1 11/16	2	2 1/2	2 3/4	3 5/8	4 1/4	5	6
Dimension C	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	.15	.18	.24	.42	.71	1.06	1.65	2.01	4.67	6.27	8.57	12.38

CLASS 9000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	---	---	1 9/32	1 15/32	1 5/8	1 11/16	1 3/4	2 1/4	---	---	---
Dimension B	---	---	---	1 11/16	2	2 1/2	2 3/4	3	3 5/8	---	---	---
Dimension C	---	---	---	3/8	1/2	1/2	1/2	1/2	5/8	---	---	---
Dimension D	---	---	---	.855	1.065	1.330	1.675	1.915	2.406	---	---	---
Approx. Wt. #	---	---	---	.74	1.14	1.99	2.34	2.76	4.85	---	---	---

## SOCKET WELD FITTINGS

### CAPS - ASME B16.11

ASTM / ANSI A/SA105  
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CLASS 3000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	11/16	11/16	3/4	13/16	15/16	1 1/16	1 1/16	1 1/8	1 5/16	1 7/16	1 5/8	1 7/8
Dimension B	3/4	1	1 1/16	1 1/4	1 1/2	1 7/8	2 1/4	2 1/2	3	3 5/8	4 5/16	5 1/2
Dimension C	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	.07	.14	.14	.20	.34	.64	.84	1.12	1.80	2.95	5.00	8.77

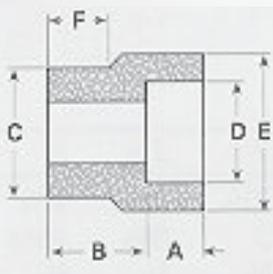
CLASS 6000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	3/4	3/4	13/16	13/16	1	1 1/8	1 1/8	1 3/16	1 3/16	1 9/16	2 11/16	2 11/16
Dimension B	7/8	1	1 1/8	1 3/8	1 11/16	2	2 1/2	2 3/4	3 5/8	4 1/4	5	6
Dimension C	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	.12	.14	.19	.30	.50	.79	1.22	1.56	3.47	5.20	7.64	12.75

CLASS 9000												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	---	---	---	1 1/16	1 3/16	1 1/4	1 1/4	1 3/8	1 9/16	---	---	---
Dimension B	---	---	---	1 1/16	2	2 1/2	2 3/4	3	3 5/8	---	---	---
Dimension C	---	---	---	3/8	1/2	1/2	1/2	1/2	5/8	---	---	---
Dimension D	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
Approx. Wt. #	---	---	---	.59	.93	1.58	1.81	2.30	3.87	---	---	---

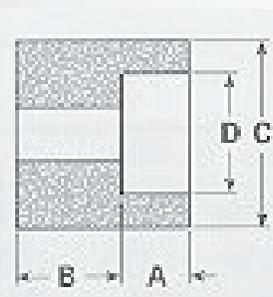
## SOCKET WELD FITTINGS

### REDUCER INSERTS MSS-SP-79

ASTM / ANSI A/SA105  
ASME B 16.11



Type 1



Type 2

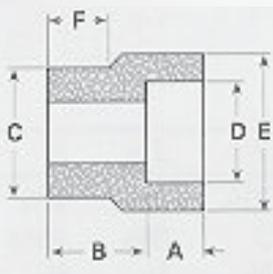
### Class 3000 - Schedule 40 BORE FOR USE WITH SCHEDULE 40 OR 80 PIPE

Pipe Size	Type	A	B	C	D	E	F
1/2 x 3/8	1	7/16	13/16	0.840	0.695	1 1/16	5/8
1/2 x 1/4	1	3/8	13/16	0.840	0.560	7/8	5/8
1/2 x 1/8	1	3/8	13/16	0.840	0.425	7/8	11/16
3/4 x 1/2	1	1/2	7/8	1.050	0.860	1 1/4	11/16
3/4 x 3/8	2	7/16	5/8	1.050	0.695	---	---
3/4 x 1/4	2	3/8	11/16	1.050	0.560	---	---
3/4 x 1/8	2	3/8	11/16	1.050	0.425	---	---
1 x 3/4	1	9/16	15/16	1.313	1.070	1 1/2	3/4
1 x 1/2	2	1/2	5/8	1.313	0.860	---	---
1 x 3/8	2	7/16	11/16	1.313	0.695	---	---
1 x 1/4	2	3/8	3/4	1.313	0.560	---	---
1 1/4 x 1	1	9/16	1	1.665	1.335	1 7/8	13/16
1 1/4 x 3/4	1	9/16	11/16	1.665	1.070	1 3/4	13/16
1 1/4 x 1/2	1	7/16	3/4	1.665	0.860	1 3/4	13/16
1 1/2 x 1 1/4	1	1/2	1 1/8	1.900	1.680	2 3/16	7/8
1 1/2 x 1	1	1/2	11/16	1.900	1.335	2	7/8
1 1/2 x 3/4	1	1/2	3/4	1.900	1.070	2	7/8
1 1/2 x 1/2	1	3/8	13/16	1.900	0.860	2	7/8
2 x 1 1/2	1	1/2	1 1/4	2.375	1.920	2 1/2	1
2 x 1 1/4	1	1/2	13/16	2.375	1.680	2 1/2	1
2 x 1	1	1/2	7/8	2.375	1.335	2 1/2	1
2 x 3/4	1	1/2	15/16	2.375	1.070	2 1/2	1
2 x 1/2	1	3/8	1	2.375	0.860	2 1/2	1

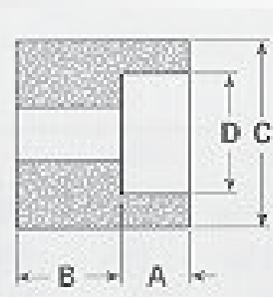
## SOCKET WELD FITTINGS

### REDUCER INSERTS MSS-SP-79

ASTM / ANSI A/SA105  
ASME B 16.11



Type 1



Type 2

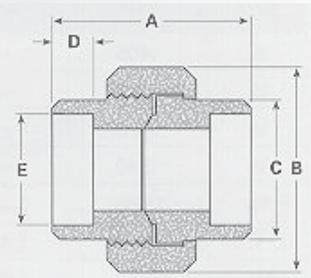
### Class 6000 - Schedule 160 BORE FOR USE WITH SCHEDULE 160 PIPE

Pipe Size	Type	A	B	C	D	E	F
1/2 x 3/8	1	7/16	13/16	0.840	0.695	1 1/8	5/8
1/2 x 1/4	1	3/8	13/16	0.840	0.560	1	5/8
1/2 x 1/8	1	3/8	13/16	0.840	0.425	7/8	11/16
3/4 x 1/2	1	1/2	1	1.050	0.860	1 3/8	3/4
3/4 x 3/8	2	7/16	5/8	1.050	0.695	---	---
3/4 x 1/4	2	3/8	7/8	1.050	0.560	---	---
3/4 x 1/8	2	3/8	11/16	1.050	0.425	---	---
1 x 3/4	1	9/16	1 1/8	1.313	1.070	1 3/4	13/16
1 x 1/2	1	1/2	1 1/8	1.313	0.860	1 3/8	13/16
1 x 3/8	2	7/16	7/8	1.313	0.695	---	---
1 x 1/4	2	3/8	15/16	1.313	0.560	---	---
1 1/4 x 1	1	5/8	1 3/16	1.665	1.335	2	7/8
1 1/4 x 3/4	2	9/16	13/16	1.665	1.070	1 3/4	7/8
1 1/4 x 1/2	2	1/2	7/8	1.665	0.860	1 3/4	7/8
1 1/2 x 1 1/4	1	11/16	1 3/8	1.900	1.680	2 1/2	1
1 1/2 x 1	1	5/8	1 1/16	1.900	1.335	2	1
1 1/2 x 3/4	2	9/16	1	1.900	1.070	2	1
1 1/2 x 1/2	2	1/2	1 1/16	1.900	0.860	2	1
2 x 1 1/2	1	3/4	11/16	2.375	1.920	2 3/4	1 1/8
2 x 1 1/4	2	11/16	15/16	2.375	1.680	---	---
2 x 1	2	5/8	1	2.375	1.335	---	---
2 x 3/4	2	9/16	1 1/16	2.375	1.070	---	---
2 x 1/2	2	1/2	1	2.375	0.860	---	---

### UNIONS

#### SOCKET WELD UNIONS

ASTM / ANSI A/SA105  
ASME B 16.11



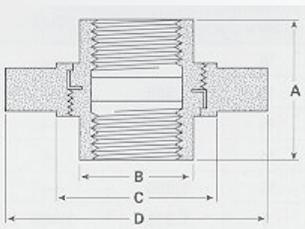
CLASS 3000 Steel to Steel Seat or Steel to Brass Seats · MSS-SP-83 SCH. 40 BORE FOR USE WITH SCH. 80 PIPE												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	1.69	1.69	1.85	1.96	2.28	2.49	2.82	3.05	3.45	4.13	4.31	--
Dimension B	1.38	1.38	1.57	1.85	2.20	2.56	3.06	3.42	4.09	4.88	5.75	--
Dimension C	0.88	0.88	1.03	1.23	1.47	1.80	2.18	2.47	3.03	3.65	4.40	--
Dimension D	.438	.438	.563	.500	.562	.625	.687	.750	.875	.875	1.00	--
Dimension E	.425	.560	.695	.860	1.070	1.335	1.680	1.920	2.411	2.914	3.543	--
Approx. Wt. #	.34	.34	.49	.68	1.19	1.68	2.54	3.33	5.30	8.60	12.70	--

CLASS 6000 · Steel to Steel Seat FOR SCH. 160 OR XXH PIPE												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	1.69	1.83	1.96	2.28	2.49	2.82	3.05	3.45	4.13	--	--	--
Dimension B	1.38	1.57	1.85	2.20	2.56	3.06	3.42	4.09	4.88	--	--	--
Dimension C	0.88	1.03	1.23	1.46	1.80	2.18	2.47	3.03	3.74	--	--	--
Dimension D	.438	.438	.563	.563	.625	.750	.812	.875	1.00	--	--	--
Dimension E	.425	.560	.695	.860	1.070	1.335	1.680	1.920	2.411	--	--	--
Approx. Wt. #	.34	.49	.68	1.19	1.68	2.54	3.33	5.30	8.60	--	--	--

### UNIONS

#### LUG UNIONS

ASTM / ANSI A/SA105  
ASME B 16.11



CLASS 3000 Steel to Steel Seat · Threaded and Socket Weld												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	--	--	--	1.96	2.28	2.49	2.82	3.05	3.45	4.13	4.31	8.00
Dimension B	--	--	--	1.23	1.47	1.80	2.18	2.47	3.03	3.75	4.40	5.38
Dimension C	--	--	--	1.85	2.20	2.56	3.06	3.42	4.09	4.88	5.75	7.13
Dimension D	--	--	--	3.09	3.73	4 11/32	4.93	5 7/8	6 13/16	7 13/16	9.00	1.50
Approx. Wt. #	--	--	--	.83	1.41	1.97	3.25	3.90	6.50	10.63	14.60	32.60

CLASS 6000 · O - Ring												
Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Dimension A	--	--	--	2.00	2.32	2.52	2.84	3.08	3.47	4.15	4.34	--
Dimension B	--	--	--	1.23	1.47	1.80	2.18	2.46	3.03	3.65	4.40	--
Dimension C	--	--	--	1.85	2.25	2.56	3.06	3.50	4.21	4.94	5.82	--
Dimension D	--	--	--	3.05	3.70	4.34	4.93	5.87	6.84	7.81	9.00	--
Approx. Wt. #	--	--	--	.83	1.41	1.97	3.25	3.90	6.50	10.63	14.60	--

Note: Socket bore dimensions - Refer to Socket Weld Union data