

FORGED STEEL
FITTINGS
& UNIONS





TABLE OF CONTENTS

90° Elbow – Class 2000, 3000, 6000 & 9000	6
45° Elbow – Class 2000, 3000, 6000 & 9000	7
Tee – Class 2000, 3000, 6000 & 9000	8
Cross – Class 2000, 3000, 6000 & 9000	9
Lateral – Class 3000, 6000 & 9000	10
SP-83 Union – Class 3000 & 6000	11
Socket Weld Couplings, Reducers and Caps – Class 3000, 6000 & 9000 ..	12
Threaded Couplings, Reducers and Caps – Class 3000 & 6000	13
Plugs & Bushings – Class 3000/6000	14
Socket Weld Reducer Inserts (MSS-SP-79) – Class 3000, 6000 & 9000 ..	15



Socket Weld/Threaded Fittings

- Threaded - Available in Class 2000, 3000, & 6000
- Socket Weld - Available in Class 3000, 6000 & 9000



90° Elbow

Threaded

Class 2000 - 1/4" to 4"
Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"

Socket Weld

Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"
Class 9000 - 1/2" to 2"



45° Elbow

Threaded

Class 2000 - 1/4" to 4"
Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"

Socket Weld

Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"
Class 9000 - 1/2" to 2"



Tee

Threaded

Class 2000 - 1/4" to 4"
Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"

Socket Weld

Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"
Class 9000 - 1/2" to 2"



Cross

Threaded

Class 2000 - 1/4" to 4"
Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"

Socket Weld

Class 3000 - 1/8" to 4"
Class 6000 - 1/2" to 3"
Class 9000 - 1/2" to 2"



Lateral

Threaded

Class 3000 - 1/4" to 2"
Class 6000 - 1/2" to 1 1/2"

Socket Weld

Class 3000 - 3/8" to 2"
Class 6000 - 1/2" to 2"
Class 9000 - 1/2" to 1 1/2"



QuikLeg 90°

Threaded

Class 3000 - 1/2" to 2"
Class 6000 - 1/2" to 1 1/2"

Socket Weld

Class 3000 - 1/2" to 2"
Class 6000 - 3/4" to 2"



Boss w/Lip

Threaded

Class 3000 - 1/4" to 3"
Class 6000 - 1/8" to 3"

Socket Weld

Class 3000 - 1/4" to 3"
Class 6000 - 1/8" to 3"



Round Plug

1/8" to 4"



Hexagon Plug

1/8" to 4"



Square Plug

1/8" to 4"



Hexagon Bushing

1/4" to 4"



Flush Bushing

1/4" to 4"

Additional sizes available on request

Couplings, Reducers & Caps

Available in class 3000 and 6000.



Pipe Cap

Threaded

Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"

Socket Weld

Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"



Half Coupling

Threaded

Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"

Socket Weld

Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"
Class 9000 - 1/2" to 2"



Coupling

Threaded

Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"

Socket Weld

Class 3000 - 1/8" to 4"
Class 6000 - 1/8" to 4"
Class 9000 - 1/2" to 2"



Reducer

Threaded

Class 3000 - 1/4" to 4"
Class 6000 - 1/4" to 4"

Socket Weld

Class 3000 - 1/4" to 4"
Class 6000 - 1/4" to 4"
Class 9000 - 1/2" to 2"

REDUCER INSERTS

Socket weld reducer inserts available in class 3000, 6000 and 9000. Inserts stocked in various materials. Consult factory for special applications.



Type 1

Nominal pipe sizes
from 1/4" x 1/8"
to 2" x 1 1/2"



Type 2

Nominal pipe sizes
from 1/2" x 1/4"
to 2" x 1 1/4"

UNIONS

Bonney Forge MSS-SP-83 threaded and socket weld unions in class 3000 and 6000. Use Bonney Forge Rockwood Unions for the ultimate in operation and durability.



MSS-SP-83

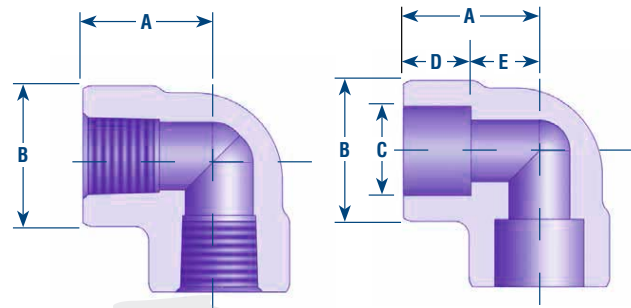
Accommodates 1/8" to 3" pipe class 3000
and 1/4" to 2" pipe class 6000.

CLASS 2000

CLASS 3000

CLASS 6000

CLASS 9000



SPECIFICATIONS:
ASME B16.11
ASME B1.20.1 - (NPT)

Threaded

CLASS	DIMENSIONS	SIZES (INCHES)											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
2000	A		7/8	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
	B		29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 5/8	4 5/16	5 3/4
	WEIGHT		0.23	0.29	0.48	0.75	1.08	1.59	2.19	3.52	7.09	11.33	25.08
3000	A	7/8	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
	B	29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	4	4 3/4	6
	WEIGHT	0.27	0.35	0.58	0.97	1.42	2.29	2.77	5.43	5.87	11.03	17.50	33.20
6000	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	4 1/2
	B	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	4	4 3/4	5 3/4	6
	WEIGHT	0.37	0.65	1.05	1.64	2.69	3.62	6.13	7.84	14.40	22.95	37.12	33.42

Socket Weld

CLASS	DIMENSIONS	SIZES (INCHES)											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
3000	A	7/8	7/8	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
	B	29/32	29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/16	4 3/8	5 3/4
	C	0.420	0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
	D MIN.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
	E	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
	WEIGHT	0.25	0.21	0.26	0.45	0.75	1.05	1.52	2.08	3.37	6.67	11.08	22.59
6000	A	7/8	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
	B	29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	4	4 3/4	6
	C	0.420	0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
	D MIN.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
	E	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 3/4
	WEIGHT		0.26	0.59	0.97	1.42	2.33	2.96	5.71	6.42	12.16	18.69	34.15
9000	A				1 1/2	1 3/4	2	2 3/8	2 1/2	3			
	B				1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	3 11/16			
	C				0.855	1.065	1.330	1.675	1.915	2.406			
	D MIN.				3/8	1/2	1/2	1/2	1/2	5/8			
	E				1	1 1/8	1 1/4	1 3/8	1 1/2	2 1/8			
	WEIGHT				1.70	2.79	3.81	5.71	8.15	11.26			

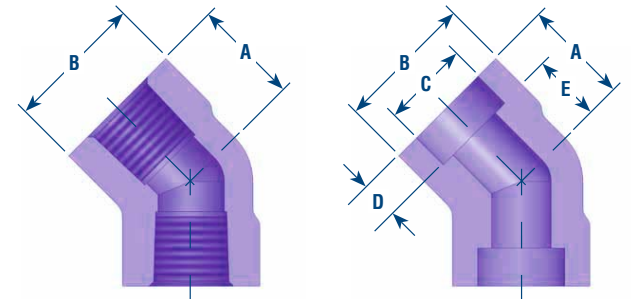
Note: 1. All Dimensions are in inches
2. Weights based on carbon steel (A105)

CLASS 2000

CLASS 3000

CLASS 6000

CLASS 9000



SPECIFICATIONS:
ASME B16.11
ASME B1.20.1 - (NPT)

Threaded

CLASS	DIMENSIONS	SIZES (INCHES)											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
2000	A		3/4	3/4	1	1 1/8	1 1/4	1 5/16	1 3/8	1 3/4	2 1/16	2 1/2	3 1/8
	B		29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	4	4 3/8	6
	WEIGHT		0.21	0.24	0.47	0.73	1.03	1.46	1.77	3.03	8.07	9.46	24.57
3000	A	3/4	3/4	1	1 1/8	1 1/4	1 5/16	1 3/8	1 11/16	1 3/4	2 1/16	2 1/2	3 1/8
	B	29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 5/16	4	4 3/4	6
	WEIGHT	0.23	0.30	0.58	0.91	1.29	2.02	2.29	4.54	5.26	7.83	12.99	24.75
6000	A	3/4	1	1 1/8	1 1/4	1 5/16	1 3/8	1 11/16	1 3/4	2 1/16	2 1/2	3 1/8	3 1/8
	B	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 5/16	4	4 3/4	6	6
	WEIGHT	0.56	0.58	0.91	1.54	2.25	2.84	5.12	6.82	10.28	15.00	35.20	24.75

Socket Weld

CLASS	DIMENSIONS	SIZES (INCHES)											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
3000	A	3/4	3/4	3/4	1	1 1/8	1 1/4	1 5/16	1 3/8	1 3/4	2 1/16	2 1/2	3 1/8
	B	29/32	29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	4	4 3/8	6
	C	0.420	0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
	D MIN.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
	E	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
	WEIGHT	0.22	0.19	0.22	0.42	0.70	0.95	1.39	1.68	2.96	7.76	8.55	24.06
6000	A	3/4	3/4	1	1 1/8	1 1/4	1 5/16	1 3/8	1 3/4	1 27/32	2 1/16	2 1/2	3 1/8
	B	29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 3/8	4	4 3/4	6
	C	0.420	0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
	D MIN.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
	E	5/16	5/16	7/16	1/2	9/16	11/16	13/16	1	1 1/8	1 1/4	1 3/8	1 5/8
	WEIGHT		0.22	0.48	0.89	1.26	2.00	2.29	4.49	5.57	8.69	14.20	24.06
9000	A				1 1/4	1 5/16	1 3/8	1 3/4	1 27/32	2 1/16			
	B				1 27/32	2 7/32	2 1/2	3 1/32	3 3/8	4			
	C				0.855	1.065	1.330	1.675	1.915	2.406			
	D MIN.				3/8	1/2	1/2	1/2	1/2	5/8			
	E				5/8	3/4	13/16	7/8	1	1 1/8			
	WEIGHT				1.31	2.37	2.91	4.31	6.89	10.84			

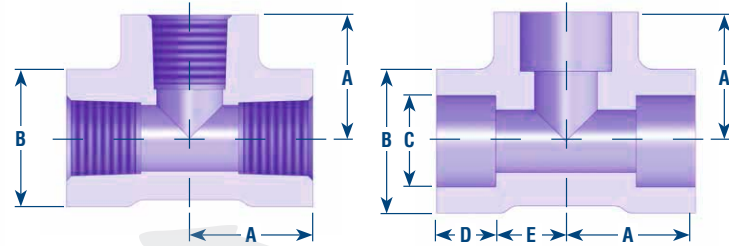
Note: 1. All Dimensions are in inches
2. Weights based on carbon steel (A105)

CLASS 2000

CLASS 3000

CLASS 6000

CLASS 9000



SPECIFICATIONS:
ASME B16.11
ASME B1.20.1 - (NPT)

Threaded

CLASS	DIMENSIONS	SIZES (INCHES)											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
2000	A		7/8	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
	B		29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/16	4 5/16	5 3/4
	WEIGHT		0.29	0.38	0.63	0.95	1.41	2.13	2.91	4.41	9.89	14.17	29.70
3000	A	7/8	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
	B	29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	1 11/32	4	4 3/4	6
	WEIGHT	0.36	0.47	0.77	1.29	1.89	3.08	3.73	7.00	7.63	14.67	22.65	40.08
6000	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	4 1/2
	B	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	4	4 3/4	5 3/4	6
	WEIGHT	0.47	0.87	1.45	2.24	3.71	4.92	8.13	10.11	19.16	30.43	47.55	47.77

Socket Weld

CLASS	DIMENSIONS	SIZES (INCHES)											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
3000	A	7/8	7/8	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
	B	29/32	29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/16	4 3/8	5 3/4
	C	0.420	0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
	D MIN.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
	E	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
	WEIGHT	0.33	0.27	0.34	0.59	0.94	1.29	2.04	2.77	4.11	8.68	13.79	28.60
6000	A	7/8	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
	B	29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	4	4 3/4	6
	C	0.420	0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
	D MIN.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
	E	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 3/4
	WEIGHT		0.34	0.80	1.27	1.91	3.17	4.04	7.55	8.19	16.15	24.43	42.79
9000	A				1 1/2	1 3/4	2	2 3/8	2 1/2	3			
	B				1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	3 11/16			
	C				0.855	1.065	1.330	1.675	1.915	2.406			
	D MIN.				3/8	1/2	1/2	1/2	1/2	5/8			
	E				1	1 1/8	1 1/4	1 3/8	1 1/2	2 1/8			
	WEIGHT				2.31	3.62	5.20	7.55	10.78	15.79			

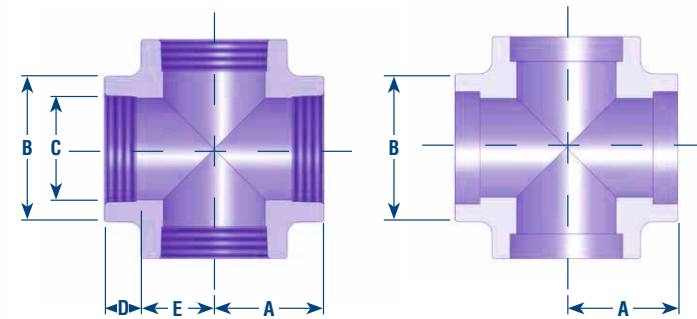
Note: 1. All Dimensions are in inches
2. Weights based on carbon steel (A105)

CLASS 2000

CLASS 3000

CLASS 6000

CLASS 9000



SPECIFICATIONS:
ASME B16.11
ASME B1.20.1 - (NPT)

Threaded

CLASS	DIMENSIONS	SIZES (INCHES)											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
2000	A		31/32	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	3 1/4	3 3/4	4 1/2
	B		1 1/16	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	4	4 3/4	6
	WEIGHT		0.56	0.47	0.83	1.19	1.64	2.46	3.51	5.50	18.32	26.41	45.76
3000	A	31/32	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
	B	1 1/16	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	4	4 3/4	6
	WEIGHT	0.65	0.58	0.97	1.60	2.28	3.65	4.54	8.47	9.10	17.69	26.13	47.37
6000	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 1/2	4 1/2
	B	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	4	4 3/4	6	6
	WEIGHT	0.65	1.19	1.60	2.65	4.34	5.92	10.50	12.12	23.15	28.13	54.00	43.50

Socket Weld

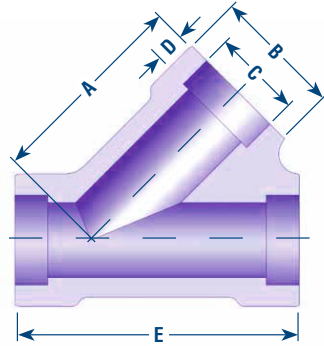
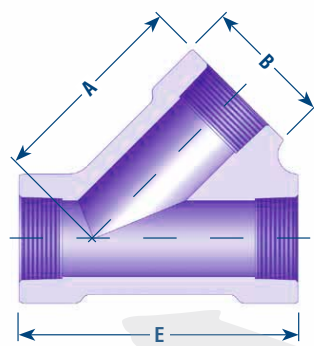
CLASS	DIMENSIONS	SIZES (INCHES)											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
3000	A	15/16	15/16	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	3 1/4	3 3/4	4 1/2
	B	1 1/16	1 1/16	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	4	4 3/4	6
	C	0.420	0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
	D MIN.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
	E	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
	WEIGHT	0.25	0.25	0.42	0.72	1.17	1.49	2.38	3.25	5.08	15.78	24.73	40.00
6000	A				1 5/16	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	
	B				1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	4	4 3/4	
	C				0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	
	D MIN.				3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	
	E				3/4	7/8	1 1/16	1 1/4	1 1/2	1 5/8	2 1/4	2 1/2	
	WEIGHT				1.55	2.31	3.74	5.25	8.80	9.66	16.75	23.00	
9000	A				1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4			
	B				1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	4			
	C				0.855	1.065	1.330	1.675	1.915	2.406			
	D MIN.				3/8	1/2	1/2	1/2	1/2	5/8			
	E				1	1 1/8	1 1/4	1 3/8	1 1/2	2 1/8			
	WEIGHT				1.75	4.12	5.25	5.12	8.75	22.19			

Note: 1. All Dimensions are in inches
2. Weights based on carbon steel (A105)

CLASS 3000

CLASS 6000

CLASS 9000



SPECIFICATIONS:
ASME B16.11 - (SOCKET ENDS ONLY)
ASME B1.20.1 - (NPT)

Threaded

CLASS	DIMENSIONS	SIZES (INCHES)							
		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
3000	A	1 7/8	2 1/8	2 9/16	3	3 1/2	3 15/16	4 3/4	5
	B	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32
	E	2 11/16	3	3 9/16	4 1/8	4 13/16	5 3/8	6 7/16	6 5/8
	WEIGHT		1.00	1.99	2.73	4.43	5.45	11.10	11.70
6000	A			3	3 1/2	3 15/16	4 3/4	5	
	B			1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	
	E			4 1/8	4 13/16	5 3/8	6 7/16	6 5/8	
	WEIGHT			2.38	3.25	5.44	7.19	12.31	

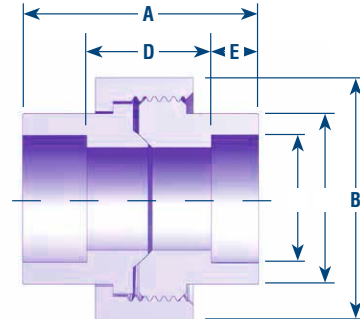
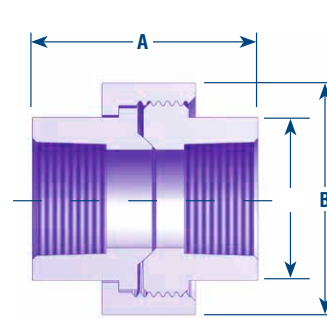
Socket Weld

CLASS	DIMENSIONS	SIZES (INCHES)							
		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
3000	A		1 7/8	2 1/8	2 9/16	3	3 1/2	3 15/16	4 3/4
	B		1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32
	C		0.690	0.855	1.065	1.330	1.675	1.915	2.406
	D MIN.		3/8	3/8	1/2	1/2	1/2	1/2	5/8
	E		2 11/16	3	3 9/16	4 1/8	4 13/16	5 3/8	6 7/16
	WEIGHT		1.00	0.88	1.56	2.08	3.08	4.22	6.89
6000	A			2 9/16	3	3 1/2	3 15/16	4 3/4	5
	B			1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32
	C			0.855	1.065	1.330	1.675	1.915	2.406
	D MIN.			3/8	1/2	1/2	1/2	1/2	5/8
	E			3 9/16	4 1/8	4 13/16	5 3/8	6 7/16	6 5/8
	WEIGHT			2.00	3.07	4.85	6.25	11.94	12.50
9000	A			3	3 1/2	3 15/16	4 3/4	5	
	B			1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	
	C			0.855	1.065	1.330	1.675	1.915	
	D MIN.			9/16	5/8	11/16	7/8	1/2	
	E			4 1/8	4 13/16	5 3/8	6 7/16	6 5/8	
	WEIGHT			1.75	2.38	3.75	6.88	6.88	

Note: 1. All Dimensions are in inches
2. Weights based on carbon steel (A105)

CLASS 3000

CLASS 6000



SPECIFICATIONS:
ASME B16.11
ASME B1.20.1 - (NPT)

CLASS	DIMENSIONS	SIZES (INCHES)										
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
3000	A	1 45/64	1 23/32	1 7/8	2	2 9/32	2 1/2	2 7/8	3 1/32	3 1/2	4 3/64	4 19/64
	B	1 3/8	1 3/8	1 9/16	1 13/16	2 11/64	2 9/16	3 1/8	3 1/2	4 1/4	4 7/8	5 3/4
	C	7/8	7/8	1 1/32	1 15/64	1 31/64	1 13/16	2 15/64	2 31/64	3 1/32	3 21/32	4 13/32
	D	61/64	31/32	1 1/8	1 1/4	1 9/32	1 1/2	1 7/8	2 1/32	2 1/4	2 51/64	3 3/64
	E MIN.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8
	F	0.420	0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535
	WEIGHT	0.41	0.38	0.54	0.79	1.25	1.80	2.88	3.64	5.81	8.77	12.98
6000	A		1 7/8	1 63/64	2 19/64	2 1/2	2 7/8	3 1/64	3 17/32	4 17/64		
	B		1 37/64	1 13/16	2 13/64	2 37/64	3 7/64	3 27/64	4 3/32	4 7/8		
	C		1 1/32	1 15/64	1 15/32	1 51/64	2 11/64	2 15/32	3 1/32	3 21/32		
	D		1 1/8	1 15/64	1 35/64	1 1/2	1 7/8	2 1/64	2 17/32	3 1/64		
	E MIN.		3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8		
	F		0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406		
	WEIGHT		0.59	0.84	1.42	2.09	3.40	4.09	7.18	12.44		

Note: 1. The "B" Dimensions is measured across the flats of the union nut.
2. All Dimensions are in inches
3. Weights based on carbon steel (A105)

BRIVAMEX

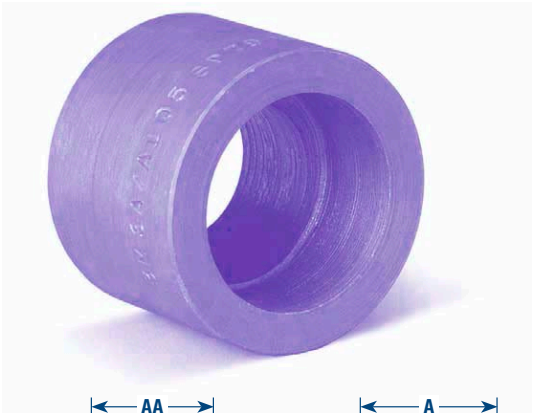


Socket Weld Couplings, Reducers and Caps

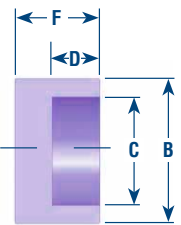
CLASS 3000

CLASS 6000

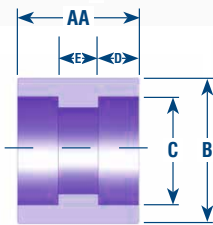
CLASS 9000



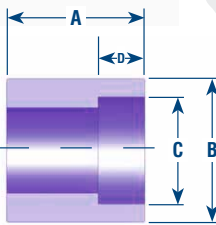
SPECIFICATIONS:
ASME B16.11



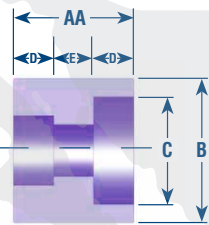
Cap



Coupling



Half Coupling



Reducing Coupling

Socket Weld

CLASS	DIMENSIONS	SIZES (INCHES)											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
3000	A	1 1/16	1 1/16	1 1/8	1 3/8	1 1/2	1 3/4	1 7/8	2	2 1/2	2 9/16	2 3/4	3
	AA	1 1/32	1 1/32	1 1/32	1 3/16	1 13/32	1 33/64	1 33/64	1 33/64	2 1/64	2 1/64	2 1/64	2 17/64
	B	3/4	7/8	1 1/16	1 1/4	1 1/2	1 13/16	2 1/4	2 1/2	3	3 5/8	4 5/16	5 1/2
	C	0.420	0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
	D MIN.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
	E	1/4	1/4	1/4	3/8	3/8	1/2	1/2	1/2	3/4	3/4	3/4	3/4
COUPLING	F	11/16	3/4	3/4	7/8	1	1 1/16	1 3/16	1 1/4	1 1/2	1 9/16	1 13/16	2 1/16
	WEIGHT	0.09	0.12	0.16	0.24	0.39	0.57	0.90	1.04	1.79	2.42	4.06	5.73
HALF COUPLING	WEIGHT	0.10	0.13	0.18	0.32	0.46	0.75	1.24	1.33	2.38	3.55	6.24	8.30
REDUCER	WEIGHT		0.12	0.16	0.24	0.39	0.57	0.90	1.04	1.79	2.42	4.06	5.73
CAP	WEIGHT	0.07	0.10	0.14	0.22	0.36	0.55	1.01	1.27	1.99	3.38	6.30	12.08

6000	A	1 1/16	1 1/16	1 1/8	1 3/8	1 1/2	1 3/4	1 7/8	2	2 1/2	2 9/16	2 3/4	3
	AA	1 1/16	1 1/8	1 1/8	1 5/32	1 13/32	1 33/64	1 33/64	1 33/64	2 1/64	2 1/64	2 1/64	2 17/64
	B	7/8	1 1/16	1 5/16	1 1/2	1 3/4	2 1/4	2 1/2	3	3 5/8	4 1/4	5	6 1/4
	C	0.420	0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
	D MIN.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
	E	1/4	1/4	1/4	3/8	3/8	1/2	1/2	1/2	3/4	3/4	3/4	3/4
COUPLING	F		15/16	15/16	1	1 1/16	1 1/4	1 5/16	1 3/8	1 5/8	1 11/16	1 15/16	2 5/16
	WEIGHT		0.23	0.33	0.45	0.67	1.27	1.37	2.09	3.85	4.93	6.69	8.00
HALF COUPLING	WEIGHT				0.56	0.80	1.58	1.72	2.99	4.99	5.44	9.50	12.64
REDUCER	WEIGHT		0.23	0.33	0.45	0.67	1.27	1.37	2.09	3.85	4.93	6.69	8.00
CAP	WEIGHT		0.20	0.27	0.42	0.58	1.18	1.41	2.19	3.65	5.63	8.78	14.25

9000	A				1 3/8	1 1/2	1 3/4	1 51/64	2	2 1/2			
	AA				1 3/8	1 1/2	1 3/4	1 51/64	2	2 1/2			
	B				1 13/16	2	2 3/8	2 3/4	3 1/16	3 5/8			
	C				0.855	1.065	1.330	1.675	1.915	2.406			
	D MIN.				3/8	1/2	1/2	1/2	1/2	5/8			
	E				3/8	3/8	1/2	1/2	1/2	3/4			
COUPLING	WEIGHT				0.62	1.04	1.71	1.69	2.93	4.61			
HALF COUPLING	WEIGHT				0.88	0.80	1.74	2.22	2.93	4.99			
REDUCER	WEIGHT				0.62	1.04	1.71	1.69	2.93	4.61			

- Note:
1. All dimensions are in inches.
 2. Weights based on carbon steel (A105)
 3. Reducer weights shown are based on full coupling sizes.
 4. Reducers smaller than 1/4" are not offered.



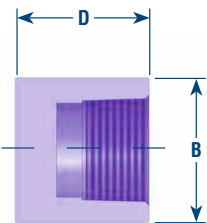
Threaded Couplings, Reducers and Caps

CLASS 3000

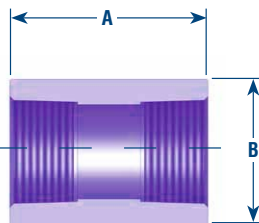
CLASS 6000



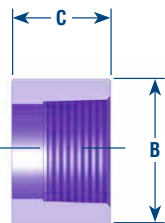
SPECIFICATIONS:
ASME B16.11
ASME B1.20.1 - (NPT)



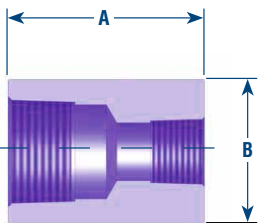
Cap



Coupling



Half Coupling



Reducing Coupling

Threaded

CLASS	DIMENSIONS	SIZES (INCHES)											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
3000	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
	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
	C	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
	D	15/16	1	1	1 1/4	1 7/16	1 5/8	1 3/4	1 3/4	1 7/8	2 3/8	2 9/16	2 11/16
COUPLING	WEIGHT	0.13	0.11	0.13	0.29	0.42	0.85	1.60	2.26	2.95	4.61	6.89	12.48
HALF COUPLING	WEIGHT	0.06	0.05	0.06	0.13	0.21	0.42	0.79	1.12	1.53	2.34	3.26	6.48
REDUCER	WEIGHT		0.11	0.13	0.29	0.42	0.85	1.60	2.26	2.95	4.61	6.89	12.48
CAP	WEIGHT	0.10	0.09	0.10	0.24	0.37	0.74	1.35	1.64	2.40	4.45	7.14	12.42

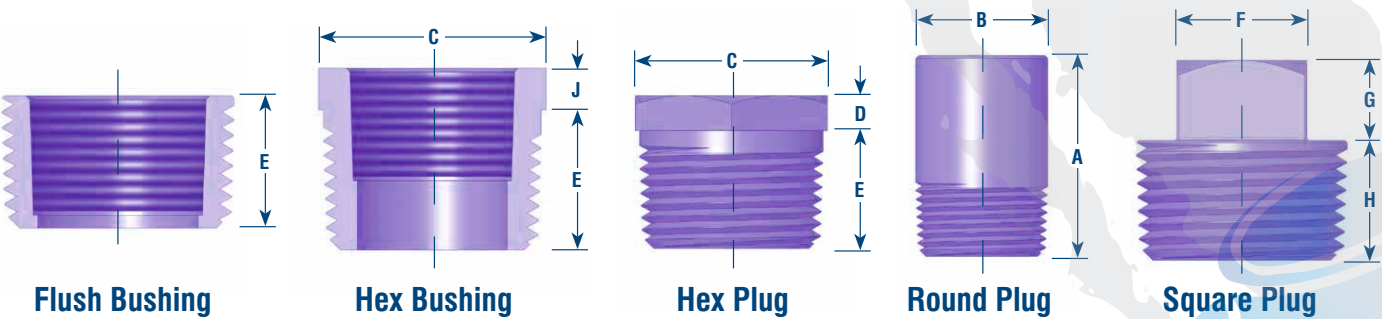
6000	A	1 1/4	1 3/8	1 1/2	1 7/8	2	2 3/8	2 5/8	3 1/8	3 3/8	3 5/8	4 1/4	4 3/4
	B	7/8	1	1 1/4	1 1/2	1 3/4	2 1/4	2 1/2	3	3 5/8	4 1/4	5	6 1/4
	C	5/8	11/16	3/4	15/16	1	1 3/16	1 5/16	1 9/16	1 11/16	1 13/16	2 1/8	2 3/8
	D	1	1 1/16	1 1/16	1 5/16	1 1/2	1 11/16	1 13/16	1 7/8	2	2 1/2	2 11/16	2 15/16
COUPLING	WEIGHT	0.18	0.28	0.39	0.70	0.95	1.93	2.28	4.20	6.00	8.65	13.41	21.86
HALF COUPLING	WEIGHT	0.10	0.12	0.19	0.35	0.49	0.97	1.15	2.08	3.05	4.35	6.83	7.05
REDUCER	WEIGHT		0.28	0.39	0.70	0.95	1.93	2.28	4.20	6.00	8.65	13.41	21.86
CAP	WEIGHT	0.16	0.23	0.31	0.55	0.78	1.55	1.90	2.79	4.35	8.10	10.73	15.58

- Note:
1. All dimensions are in inches.
 2. Weights based on carbon steel (A105)
 3. Reducer weights shown are based on full coupling sizes.
 4. Reducers smaller than 1/4" are not offered.



PLUGS & BUSHINGS

CLASS 3000
CLASS 6000



SPECIFICATIONS:
ASME B16.11
ASME B1.20.1 - (NPT)

CLASS	DIMENSIONS	SIZES (INCHES)											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
3000/6000	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
	B	13/32	9/16	11/16	13/16	1 1/16	1 5/16	1 11/16	1 29/32	2 3/8	2 7/8	3 1/2	4 1/2
	C	7/16	5/8	11/16	7/8	1 1/16	1 3/8	1 3/4	2	2 1/2	3	3 3/4	4 7/8
	D MIN.	1/4	1/4	5/16	5/16	3/8	3/8	9/16	5/8	11/16	3/4	13/16	1
	E	7/16	1/2	9/16	11/16	3/4	27/32	7/8	15/16	1	1 1/4	1 11/16	1 25/32
	F	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
	G	1/4	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	1 1/4
	H	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
	J MIN.		3/16	3/16	3/16	1/4	1/4	3/8	3/8	3/8	1/2	7/16	1
	WEIGHT	0.05	0.11	0.18	0.25	0.41	0.73	1.20	1.57	3.10	5.01	7.40	13.25
ROUND PLUG	WEIGHT	0.03	0.06	0.09	0.16	0.27	0.48	0.93	1.35	2.26	3.84	7.08	12.07
SQUARE PLUG	WEIGHT	0.02	0.04	0.06	0.12	0.19	0.35	0.61	0.83	1.41	2.33	3.57	6.28
HEX BUSHING	WEIGHT		0.03	0.04	0.06	0.12	0.21	0.38	0.37	0.77	1.31	3.78	7.31
FLUSH BUSHING	WEIGHT		0.05	0.07	0.03	0.06	0.09	0.17	0.19	0.39	0.62	1.00	1.88

Note: 1. All Dimensions are in inches
2. Weights based on carbon steel (A105)

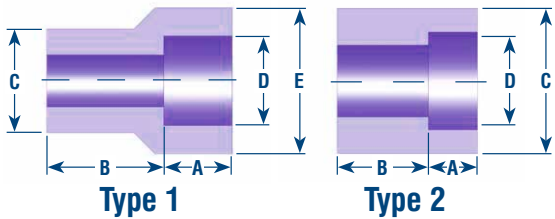


SOCKET WELD REDUCER INSERTS (MSS SP-79)

CLASS 3000
CLASS 6000
CLASS 9000



SPECIFICATIONS:
MSS SP-79
ASME B16.11 - (SOCKET DIMENSIONS ONLY)



SIZE	C	D	Fig. Type	3000			Fig. Type	6000			Fig. Type	9000			WEIGHT		
				A (Min.)	B	E		A (Min.)	B	E		A (Min.)	B	E	3000	6000	9000
3/8 x 1/4	0.685	0.555	1	3/8	3/4	15/16	1	3/8	27/32	1					0.12	0.20	
1/2 x 3/8	0.850	0.690	1	3/8	13/16	1 1/16	1	3/8	29/32	1 3/16					0.16	0.19	
1/2 x 1/4	0.850	0.555	1	3/8	13/16	15/16	1	3/8	13/16	1					0.17	0.19	
3/4 x 1/2	1.060	0.855	1	3/8	7/8	1 5/16	1	3/8	1	1 3/8	1	3/8	1 3/16	1 3/4	0.26	0.36	0.62
3/4 x 3/8	1.060	0.690	2	3/8	5/8		1	3/8	7/8	1 3/16					0.19	0.25	
3/4 x 1/4	1.060	0.555	2	3/8	11/16		2	3/8	7/8						0.23	0.27	
1 x 3/4	1.325	1.065	1	1/2	15/16	1 17/32	1	1/2	1 1/8	1 11/16	1	1/2	1 1/4	2	0.38	0.60	1.10
1 x 1/2	1.325	0.855	2	3/8	5/8		1	3/8	1 1/8	1 3/8	1	3/8	1 1/8	1 3/4	0.32	0.49	0.74
1 x 3/8	1.325	0.690	2	3/8	11/16		2	3/8	7/8						0.37	0.41	
1 x 1/4	1.325	0.555	2	3/8	3/4		2	3/8	15/16						0.41	0.50	
1 1/4 x 1	1.670	1.330	1	1/2	1	1 7/8	1	1/2	1 3/16	2	1	1/2	1 3/8	2 3/8	0.62	0.89	1.44
1 1/4 x 3/4	1.670	1.065	2	1/2	11/16		2	1/2	13/16		1	1/2	1 3/16	2	0.54	1.04	1.81
1 1/4 x 1/2	1.670	0.855	2	3/8	3/4		2	3/8	7/8		2	3/8	7/8		0.65	0.95	1.14
1 1/4 x 3/8	1.670	0.690	2	3/8	13/16		2	3/8	15/16						0.70	1.04	
1 1/4 x 1/4	1.670	0.555	2	3/8	7/8		2	3/8	1						0.75	1.14	
1 1/2 x 1 1/4	1.910	1.675	1	1/2	1 1/8	2 1/4	1	1/2	1 3/8	2 3/8	1	1/2	1 5/8	2 3/4	0.80	1.23	1.90
1 1/2 x 1	1.910	1.330	2	1/2	11/16		1	1/2	1 5/32	2 1/16	1	1/2	1 3/8	2 3/8	0.68	1.13	1.13
1 1/2 x 3/4	1.910	1.065	2	1/2	3/4		2	1/2	1		2	1/2	1		0.84	1.04	1.23
1 1/2 x 1/2	1.910	0.855	2	3/8	13/16		2	3/8	1 1/16		2	3/8	1		0.97	1.15	1.33
1 1/2 x 3/8	1.910	0.690	2	3/8	7/8		2	3/8	1 1/8						1.00	1.25	
2 x 1 1/2	2.385	1.915	1	1/2	1 1/4	2 1/2	1	1/2	1 17/32	2 11/16	1	1/2	2 1/16	3	1.24	1.93	2.43
2 x 1 1/4	2.385	1.675	2	1/2	13/16		2	1/2	15/16		1	1/2	2	2 3/4	1.16	1.36	1.96
2 x 1	2.385	1.330	2	1/2	7/8		2	1/2	1		2	1/2	1		1.50	1.86	1.54
2 x 3/4	2.385	1.065	2	1/2	15/16		2	1/2	1 1/16		2	1/2	1 1/16		1.69	1.82	1.82
2 x 1/2	2.385	0.855	2	3/8	1		2	3/8	1 1/8		2	3/8	1 1/8		1.81	1.92	1.92

Note: 1. All dimensions are in inches.
2. Weights based on carbon steel (A105)
3. Larger sizes are available upon request, and are supplied in accordance to MSS SP-79.