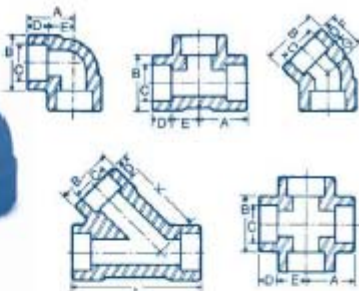


# SOCKET WELD FITTINGS

## CLASS 3000

## CLASS 6000

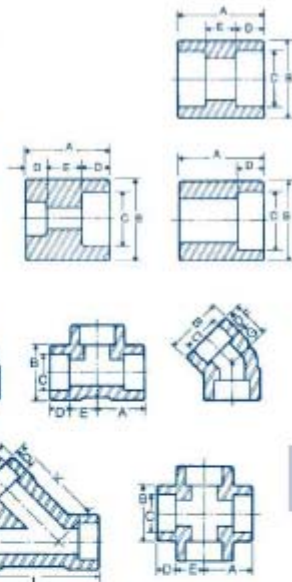
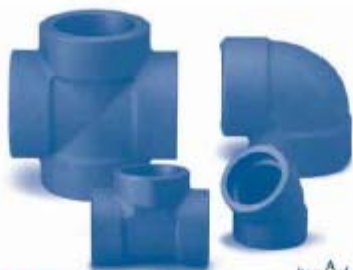


DIMENSIONS (inches)		NOMINAL PIPE SIZE												
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	
CLASS 3000 - Schedule 40 Bore	90°L TEE	A	7/8	7/8	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	3	3 3/8	4 3/16
	LAT	B	29/32	29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/16	4 5/16	5 3/4
	(MIN.) D	D	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	3/4
	45°L CROSS	A	7/8	7/8	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
	CROSS	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 3/4	5
	(MIN.) D	D	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 1/4	2 9/8
	F	3/4	3/4	3/4	1	1 1/8	1 1/4	1 5/16	1 3/8	1 11/16	2 1/16	2 1/2	2 1/2	3 1/8
	G	5/16	5/16	5/16	7/16	1/2	9/16	1 1/16	1 3/16	1	1 1/8	1 1/4	1 5/8	
	H	1 1/4	1 1/4	1 1/2	1 5/8	1 7/8	2 1/4	2 5/8	2 15/16	3 5/16				
	J	7/8	7/8	1	1 1/8	1 3/8	1 3/4	2	2 1/8	2 1/2				
	K			1 7/8	2 1/8	2 9/16	3	3 1/2	3 15/16	4 3/4				
L			2 11/16	3	3 9/16	4 1/8	4 13/16	5 3/8	6 7/16					
DIMENSIONS C (MINIMUM THICKNESS)		C	.420	.555	.690	.855	1.065	1.330	1.675	1.815	2.400	2.900	3.535	4.545
WEIGHT (pounds)														
	90° ELBOW		.125	.183	.270	.480	.698	.987	1.480	2.088	3.125	6.340	10.957	25.00
	45° ELBOW		.125	.198	.210	.440	.673	.935	1.365	1.63	2.71	6.75	10.50	18.188
	TEE		.25	.25	.345	.540	.825	1.307	2.00	2.640	4.070	8.75	12.50	27.80
	STREET ELBOW		.25	.25	.375	.50	.875	1.438	2.25	3.00	5.198			
	LATERAL		.25	.25	.625	1.00	1.500	2.375	3.75	4.125	6.295			
	CROSS		.25	.25	.375	.813	1.125	1.550	2.25	3.063	5.125	18.00	23.00	40.00

DIMENSIONS (inches)		NOMINAL 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		
CLASS 6000 - Schedule 160 Bore	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	5		
	(MIN.) D	D	3/8	3/8	3/8	3/8	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		
	F	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		
	G	5/16	5/16	7/16	1/2	9/16	1 1/16	1 3/16	1	1 1/8	1 1/4	1 5/8			
	H	1 1/4	1 1/2	1 5/8	1 7/8	2 1/4	2 5/8	2 15/16	3 5/16						
	J	7/8	1	1 1/8	1 3/8	1 3/4	2	2 1/8	2 1/2						
	K			2 1/8	2 9/16	3	3 1/2	3 15/16	4 3/4	5					
	L			3	3 9/16	4 1/8	4 13/16	5 3/8	6 7/16	6 5/8					
	DIMENSIONS C (MINIMUM THICKNESS)		C	.420	.555	.690	.855	1.065	1.330	1.675	1.815	2.400	2.900	3.535	4.545
	WEIGHT (pounds)														
	90° ELBOW				.598	1.440	2.348	3.188	5.25	6.660	11.875	19.25	32.70		
	45° ELBOW				.875	1.313	1.913	2.27	4.313	4.813	9.825	14.25	27.25		
	TEE				1.375	2.00	3.313	3.75	7.400	8.240	15.625	23.50	33.00		
	STREET ELBOW		.375	.438	1.00	1.525	2.50	3.688	6.438						
	LATERAL				2.00	3.063	5.125	8.25	11.938	12.5					
	CROSS				1.50	2.50	3.460	5.25	8.75	9.438	20.25	27.00	39.00		

# SOCKET WELD FITTINGS

## CLASS 9000



### CLASS 9000 XXS BORE- 90° ELBOW

#### DIMENSIONS (inches)

NOMINAL PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2
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
(MIN.) D	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 (pounds)

Weight	1.44	2.25	3.19	5.25	6.69	6.69
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### CLASS 9000 XXS BORE- TEE

#### DIMENSIONS (inches)

NOMINAL PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2
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
(MIN.) D	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 (pounds)

Weight	2.00	3.31	3.75	6.50	7.68	8.75
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### CLASS 9000 XXS BORE- 45° ELBOW

#### DIMENSIONS (inches)

NOMINAL PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2
B	1 27/32	2 7/32	2 1/2	3 1/32	3 3/8	4
(MIN.) D	5/8	9/16	9/16	13/16	3/4	35/16
F	1 1/4	1 5/16	1 3/8	1 11/16	1 3/4	2 1/16
G	5/8	3/4	13/16	7/8	1	1 1/8

#### WEIGHT (pounds)

Weight	1.31	2.06	2.50	4.31	4.81	9.52
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### CLASS 9000 XXS BORE- LATERAL

#### DIMENSIONS (inches)

NOMINAL PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2
B	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	
(MIN.) D	9/16	5/8	11/16	7/8	7/8	
K	3	3 1/2	3 15/16	4 3/4	5	
L	4 1/8	4 13/16	5 3/8	6 7/16	6 5/8	

#### WEIGHT (pounds)

Weight	1.75	2.38	3.75	6.88	6.68	
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### DIMENSIONS C - COMMON TO ALL FITTINGS (inches)

NOMINAL PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2
C	.655	1.065	1.330	1.675	1.915	2.406

### CLASS 9000 XXS BORE- CROSS

#### DIMENSIONS (inches)

NOMINAL PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2
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
(MIN.) D	1/2	5/8	3/4	1	1	1 1/8
F	1	1 1/8	1 1/4	1 3/8	1 1/2	2 1/8

#### WEIGHT (pounds)

Weight	2.50	4.12	4.12	5.12	9.44	22.19
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### CLASS 9000 XXS BORE- COUPLINGS- REDUCERS- HALF COUPLING

#### DIMENSIONS (inches)

NOMINAL PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2
A	1 3/8	1 1/2	1 3/4	1 7/8	2	2 1/2
B	1 13/16	2	2 3/8	2 3/4	3 1/16	3 5/8
(MIN.) D	1/2	9/16	5/8	11/16	3/4	7/8
E	3/8	3/8	1/2	1/2	1/2	3/4
F						

#### WEIGHT (pounds)

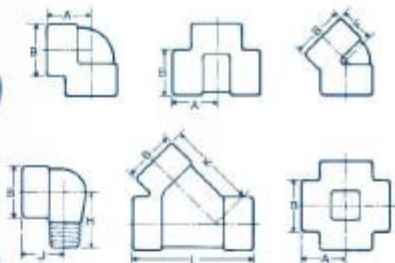
Coupling	.75	1.06	1.69	2.22	2.81	4.95
Reducer	.75	1.06	1.69	2.22	2.81	4.95
Half Coupling	.88	1.16	1.88	2.50	3.25	5.38

# THREADED FITTINGS

**CLASS 2000**

**CLASS 3000**

**CLASS 6000**



DIMENSIONS (inches)													
NOMINAL 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
90EL TEE STEL LAT	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 5/16
	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
	F		3/4	3/4	1	1 1/8	1 1/4	1 5/16	1 3/8	1 11/16	2 1/16	2 1/2	3 1/8
45EL CROSS	A		7/8	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		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 3/4	6
	F		3/4	3/4	1	1 1/8	1 1/4	1 5/16	1 3/8	1 11/16	2 1/16	2 1/2	3 1/8
WEIGHT (pounds)													
90° ELBOW	.25	.198	.293	.500	.773	1.013	1.550	2.180	3.140	5.50	10.925	26.575	
45° ELBOW	.125	.188	.236	.435	.740	1.058	1.375	1.740	2.883	7.75	11.313	19.125	
TEE	.25	.267	.373	.613	.963	1.355	2.030	2.900	4.450	9.530	12.900	28.700	
CROSS	.50	.50	.460	.777	1.125	1.680	2.460	3.188	5.590	16.438	19.50	32.688	

DIMENSIONS (inches)													
NOMINAL 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
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
H		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
F		1 1/4	1 1/4	1 1/2	1 5/8	1 7/8	2 1/4	2 5/8	2 15/16	3 5/16			
J	7/8	7/8	1	1 1/8	1 3/8	1 3/4	2	2 1/8	2 1/2				
K		1 7/8	2 1/8	2 9/16	3	3 1/2	3 15/16	4 3/4	5				
L		2 11/16	3	3 9/16	4 1/8	4 13/16	5 3/8	6 7/16	6 5/8				
WEIGHT (pounds)													
90° ELBOW	.236	.350	.592	.973	1.355	2.265	2.407	3.50	5.920	11.900	14.438	31.975	
45° ELBOW	.25	.290	.50	.75	1.188	1.988	2.235	3.00	4.930	7.375	13.558	19.063	
TEE	.325	.460	.753	1.270	1.830	3.025	3.620	7.040	7.550	13.125	23.100	40.000	
STREET ELBOW	.254	.242	.375	.595	1.048	1.438	2.340	3.00	5.461				
LATERAL		.625	1.313	1.75	2.75	4.625	5.50	10.813	11.5				
CROSS	.436	.567	.970	1.50	2.50	3.620	4.125	6.50	8.125	16.75	25.675	32	

DIMENSIONS (inches)													
NOMINAL 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
90EL TEE STEL LAT	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
	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
	F		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
	H		1 1/4	1 1/2	1 5/8	1 7/8	2 1/4	2 5/8	2 15/16	3 5/16			
45EL CROSS	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
	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
	F		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
J	7/8	1	1 1/8	1 3/8	1 3/4	2	2 1/8	2 1/2					
K			2 9/16	3	3 1/2	3 15/16	4 3/4	5					
L			3 9/16	4 1/8	4 13/16	5 3/8	6 7/16	6 5/8					
WEIGHT (pounds)													
90° ELBOW	.25	.625	1.023	1.625	2.825	3.50	6.75	7.50	13.438	20.875	38.050	38	
45° ELBOW	.25	.640	.50	1.438	2.188	2.750	4.688	5.75	9.50	15	30.563	29	
TEE	.50	.853	1.410	2.150	3.563	4.825	7.625	9.625	18.500	28.063	47.500	50	
STREET ELBOW		.375	.438	1	1.625	3.030	3.688	7.120					
LATERAL			2.075	3.25	5.430	7.180	12.313	15.95					
CROSS	.560	1.188	1.50	2.75	4.310	6.625	10.75	11.50	22.188	27.50	54	40.50	

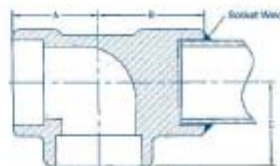


# QUIKLEG90™ - SOCKET WELD - THREADED - BUTT WELD

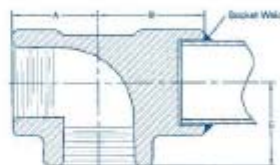
**CLASS 3000**

**CLASS 6000**

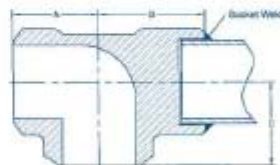
**STD-XSTG**



Socket Weld



Threaded



Butt Weld

CLASS 3000	DIMENSIONS (inches)	SOCKET WELD						THREADED					
	NOMINAL PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2	1/2	3/4	1	1 1/4	1 1/2	2
	A Nominal	-	1 1/2	1 1/2	1 3/4	2	2 3/8	1 1/2	1 1/2	1 3/4	2	2 3/8	2 1/2
B Nominal	-	1 7/8	1 7/8	2 3/16	2 1/2	3	1 7/8	1 7/8	2 3/16	2 1/2	3	3 1/8	
C Nominal	-	1 1/2	1 1/2	1 3/4	2	2 3/8	1 1/2	1 1/2	1 3/4	2	2 3/8	2 1/2	

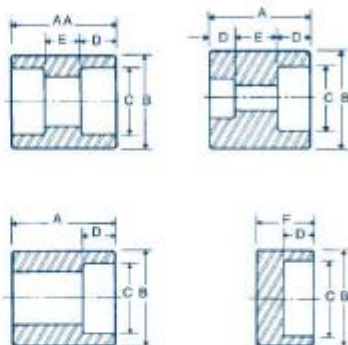
CLASS 6000	DIMENSIONS (inches)	SOCKET WELD						THREADED					
	NOMINAL PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2	1/2	3/4	1	1 1/4	1 1/2	2
	A Nominal	-	1 1/2	1 3/4	2	2 3/8	2 1/2	1 1/2	1 3/4	2	2 3/8	2 1/2	-
B Nominal	-	1 7/8	2 3/16	2 1/2	3	3 1/8	1 7/8	2 3/16	2 1/2	3	3 1/8	-	
C Nominal	-	1 1/2	1 3/4	2	2 3/8	2 1/2	1 1/2	1 3/4	2	2 3/8	2 1/2	-	

STD-XSTG	DIMENSIONS (inches)	BUTT WELD							
	NOMINAL PIPE SIZE	2	2 1/2	3	4				
	A Nominal	2 3/8	3	3 3/8	4 3/16				
B Nominal	3	3	3 3/8	4 3/16					
C Nominal	2 3/8	3	3 3/8	4 3/16					

# SOCKET WELD COUPLINGS, REDUCERS & CAPS

**CLASS 3000**

**CLASS 6000**



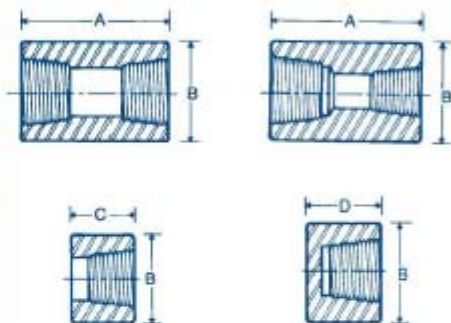
CLASS 3000	DIMENSIONS (Inches)												
	NOMINAL PIPE SIZE	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
A	1 5/8	1 1/8	1 1/8	1 3/8	1 1/2	1 3/4	1 3/4	1 7/8	2	2 1/2	2 1/2	2 3/4	3
AA	1 1/32	1 1/32	1 1/32	1 9/64	1 13/32	1 13/32	1 33/64	1 33/64	1 33/64	2 1/64	2 1/64	2 1/64	2 17/64
B	3/4	7/8	1 1/16	1 1/4	1 1/2	1 13/16	2 1/4	2 1/2	3	3 5/8	4 5/16	5 1/2	6 1/4
C	.420	.555	.690	.855	1.065	1.330	1.675	1.915	2.405	2.905	3.535	4.545	5.515
D	7/16	7/16	7/16	1/2	9/16	5/8	11/16	3/4	7/8	7/8	1	1 1/8	1 1/8
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	3/4
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	1 13/16	2 1/16
WEIGHT (pounds)													
COUPLING	.125	.125	.125	.189	.313	.563	.813	1	2	2.625	3.875	6.625	13.125
REDUCER	.125	.125	.125	.189	.313	.563	.813	1	2	2.625	3.875	6.625	13.125
HALF COUPLING	.125	.125	.125	.189	.313	.563	.813	1	2	2.625	3.875	6.625	13.125
PIPE CAP	.063	.063	.125	.189	.313	.563	.813	1.125	1.688	3	3.625	6.688	13.125

CLASS 6000	DIMENSIONS (Inches)												
	NOMINAL PIPE SIZE	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	
A	1 1/8	1 1/8	1 3/8	1 1/2	1 3/4	1 7/8	2	2 1/2	2 1/2	2 3/4	3	3	
AA	1 1/8	1 1/8	1 5/32	1 13/32	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	1 1/16	1 3/16	1 1/2	1 3/4	2 1/4	2 1/2	3	3 5/8	4 1/4	5	6 1/4	6 1/4	
C	.555	.690	.855	1.065	1.330	1.675	1.915	2.405	2.905	3.535	4.545	5.515	
D	7/16	7/16	1/2	9/16	5/8	11/16	3/4	7/8	7/8	1	1 1/8	1 1/8	
E	1/4	1/4	3/8	3/8	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	
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 1/16	2 1/16	
WEIGHT (pounds)													
COUPLING			.375	.563	1	1.438	2	3.875	5.50	6.625	13.125	13.125	
REDUCER			.375	.563	1	1.438	2	3.875	5.50	6.625	13.125	13.125	
HALF COUPLING			.375	.563	1	1.438	2	3.875	5.50	6.625	13.125	13.125	
PIPE CAP			.375	.50	1.125	1.125	2.25	3.50	5.625	6	13.50	13.50	

# THREADED COUPLINGS, REDUCERS & CAPS

**CLASS 3000**

**CLASS 6000**



CLASS 3000	DIMENSIONS (Inches)												
	NOMINAL 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
	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	
WEIGHT (pounds)													
COUPLING	.125	.125	.25	.25	.438	.625	1.563	2.188	3.125	4	6.75	16.75	
REDUCER	.125	.125	.25	.25	.438	.625	1.563	2.188	3.125	4	6.75	16.75	
HALF COUPLING	.063	.063	.188	.188	.25	.313	.75	1.125	1.563	2	3.375	8.375	
PIPE CAP	.031	.063	.125	.25	.313	.50	1	1.625	3.125	5	8.50	14	

CLASS 6000	DIMENSIONS (Inches)												
	NOMINAL 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
	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	
WEIGHT (pounds)													
COUPLING	.188	.188	.25	.50	1	2.125	2.375	4.375	7.75	10.75	13.50	24.50	
REDUCER	.188	.188	.25	.50	1	2.125	2.375	4.375	7.75	10.75	13.50	24.50	
HALF COUPLING	.094	.094	.125	.25	.50	1.063	1.188	2.188	3.875	5.375	6.75	12.25	
PIPE CAP	.125	.125	.188	.313	.438	.75	1.313	1.688	3.25				

# SOCKET WELD REDUCERS INSERTS (MSS-SP79)

**CLASS 3000**

**CLASS 6000**

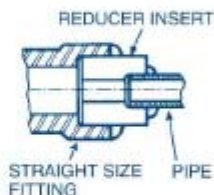
**CLASS 9000**



**TYPE 1**



**TYPE 2**



NOMINAL PIPE SIZE	CLASS 3000			CLASS 6000			CLASS 9000							
	C	D	Ftg. Type	A	B	E	Ftg. Type	A	B	E	Ftg. Type	A	B	E
3/8 x 1/4	.675	.555	1	7/16	3/4	15/16	1	7/16	7/8	1				
1/2 x 3/8	.850	.690	1	7/16	13/16	1 1/16	1	7/16	15/16	1 3/16				
1/2 x 1/4	.850	.555	1	7/16	15/16	15/16	1	7/16	7/8	1				
3/4 x 1/2	1.060	.855	1	7/16	7/8	1 5/16	1	7/16	1 1/16	1 3/8	1	7/16	1 3/16	1 3/4
3/4 x 3/8	1.060	.690	2	7/16	5/8	-	1	7/16	7/8	1 3/16				
3/4 x 1/4	1.060	.555	2	3/8	1 1/16	-	2	3/8	7/8	-				
1 x 3/4	1.325	1.065	1	9/16	15/16	1 1/2	1	9/16	1 1/8	1 11/16	1	9/16	1 1/4	2
1 x 1/2	1.325	.855	2	1/2	5/8	-	1	7/16	1 1/8	1 3/8	1	7/16	1 1/8	1 3/4
1 x 3/8	1.325	.690	2	7/16	1 1/16	-	2	1/2	7/8	-				
1 x 1/4	1.325	.555	2	3/8	3/4	-	2	3/8	15/16	-				
1 1/4 x 1	1.670	1.330	1	9/16	1	1 7/8	1	9/16	1 3/16	2	1	9/16	1 3/8	2 3/8
1 1/4 x 3/4	1.670	1.065	2	9/16	1 1/16	-	2	9/16	1 3/16	-	1	9/16	1 3/16	2
1 1/4 x 1/2	1.670	.855	2	1/2	3/4	-	2	1/2	7/8	-	2	1/2	7/8	-
1 1/4 x 3/8	1.670	.690	2	7/16	1 3/16	-	2	7/16	15/16	-				
1 1/4 x 1/4	1.670	.555	2	3/8	7/8	-	2	3/8	1	-				
1 1/2 x 1 1/4	1.910	1.675	1	9/16	1 1/8	2 1/4	1	9/16	1 3/8	2 3/8	1	9/16	1 5/8	2 3/4
1 1/2 x 1	1.910	1.330	2	5/8	1 1/16	-	1	9/16	1 3/16	2	1	9/16	1 3/8	2 3/8
1 1/2 x 3/4	1.910	1.065	2	9/16	3/4	-	2	9/16	1	-	2	9/16	1	-
1 1/2 x 1/2	1.910	.855	2	1/2	1 3/16	-	2	1/2	1 1/16	-	2	9/16	1	-
1 1/2 x 3/8	1.910	.690	2	7/16	7/8	-	2	7/16	1 1/8	-				
2 x 1 1/2	2.385	1.915	1	9/16	1 1/4	2 1/2	1	9/16	1 7/8	2 1 1/16	1	9/16	2 1/16	3
2 x 1 1/4	2.385	1.675	2	1 1/16	1 3/16	-	2	7/8	15/16	-	1	9/16	2	2 3/4
2 x 1	2.385	1.330	2	5/8	7/8	-	2	1 3/16	1	-	2	1 3/16	1	-
2 x 3/4	2.385	1.065	2	9/16	15/16	-	2	3/4	1 1/16	-	2	3/4	1 1/16	-
2 x 1/2	2.385	.855	2	1/2	1	-	2	1 1/16	1 1/8	-	2	1 1/16	1 1/8	-

Note: Socket Weld Reducer Inserts comply fully with MSS-SP79



# THREADED PLUGS & BUSHINGS

## CLASS 3000/6000



Round Head Plug



Hexagon Bushing



Square Head Plug



Hexagon Plug



Flush Bushing

DIMENSIONS (Inches)												
NOMINAL 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
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	17/32	11/16	27/32	11/16	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 7/16	1 13/16	2	2 1/2	3	3 3/4	4 5/8
D	1/4	1/4	5/16	5/16	3/8	3/8	9/16	5/8	11/16	3/4	13/16	1 1/4
E	7/16	1/2	9/16	11/16	3/4	27/32	7/8	15/16	1	1 1/4	1 9/16	1 21/32
F	9/32	3/8	7/16	9/16	5/8	1 3/16	1 5/16	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 3/8
J		5/8	11/16	7/8	1 1/16	1 7/16	1 13/16	2	2 1/2	3	3 3/4	4 5/8
K		3/16	3/16	3/16	1/4	1/4	3/8	3/8	3/8	1/2	13/16	1 1/4
L		1/2	9/16	11/16	3/4	27/32	7/8	15/16	1	1 1/4	1 9/16	1 21/32
M		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
N		3/8	7/16	1/2	9/16	5/8	3/4	13/16	13/16	7/8	1 1/16	1 1/4
WEIGHT (pounds)												
ROUND HEAD PLUGS	.125	.125	.188	.250	.375	.750	1.125	1.563	3.00	4.75	7.82	12.87
HEXAGON PLUGS	.063	.063	.125	.188	.313	.500	1.125	1.375	2.25	3.87	5.87	13.00
SQUARE HEAD PLUGS	.016	.031	.063	.125	.188	.313	.563	.875	1.50	2.25	2.87	7.18
HEXAGON BUSHINGS	.063	.063	.063	.125	.188	.375	.688	1.62	2.37	3.50	8.31	
FLUSH BUSHINGS	.063	.063	.063	.125	.125	.125	.188	.37	.62	1.00	2.00	

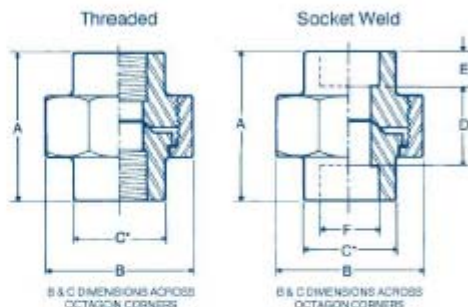
\* Dimension J for Hex Head Bushing and dimension C for Hex Head Plug are the same.



# MSS-SP-83 UNIONS - THREADED & SOCKET WELD

**CLASS 3000**

**CLASS 6000**



\* "C" dimension is across octagon corners or a diameter as applicable.  
The 2-1/2" and 3" 3000 and 2" 6000 sizes have octagonal male and female ends; the other sizes are round.

DIMENSIONS (Inches)												
CLASS 3000	NOMINAL PIPE SIZE	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	A	1 11/16	1 11/16	1 27/32	2	2 5/16	2 7/16	2 7/8	3	3 1/2	4 1/4	4 7/16
	B	1 31/64	1 31/64	1 11/16	1 15/16	2 0/8	2 25/32	2 23/64	2 23/32	4 27/64	5 15/64	6 5/32
	C	53/64	53/64	1	1 3/16	1 15/32	1 25/32	2 7/32	2 35/64	3 1/16	3 9/16	4 9/32
	D	25/32	25/32	31/32	1 3/32	1 5/32	1 3/8	1 45/64	1 7/8	2 1/16	2 3/8	2 7/16
	E	7/16	7/16	7/16	7/16	9/16	9/16	9/16	9/16	1 1/16	7/8	1
	F	.420	.555	.690	.855	1.085	1.330	1.675	1.915	2.408	2.905	3.535
WEIGHT PER UNION (pounds)		.38	.36	.50	.695	1.175	1.64	2.59	3.41	5.12	8.75	12.925

DIMENSIONS (Inches)												
CLASS 6000	NOMINAL PIPE SIZE	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2		
	A	1 11/16	1 27/32	2	2 5/16	2 7/16	2 7/8	3	3 1/2	4 1/8		
	B	1 31/64	1 11/16	1 15/16	2 3/8	2 25/32	2 23/64	2 23/32	4 27/64	5 15/64		
	C	53/64	1	1 3/16	1 15/32	1 25/32	2 7/32	2 35/64	3 1/16	3 9/16		
	D	25/32	31/32	1 3/32	1 5/32	1 3/8	1 45/64	1 7/8	2 1/16	2 3/8		
	E	7/16	7/16	7/16	9/16	9/16	9/16	9/16	1 1/16	7/8		
	F	.420	.555	.690	.855	1.085	1.330	1.675	1.915	2.408		
WEIGHT PER UNION (pounds)		.5	.56	.75	1.25	1.75	3	3.75	6.0	10.5		

# Rockwood Unions

**TYPE 601**

**TYPE 602**

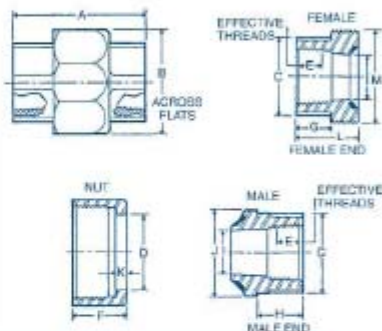
**TYPE 602B**

**TYPE 604**

- Ball to cone seats for smooth alignment.
- Can be cracked and rejoined repeatedly.
- Replaceable, interchangeable parts.
- Carbon Steel, coated to resist corrosion.
- Stays sealed, despite shock, vibration, expansion and rough wrenching.
- Silicon bronze and stainless steel seats double locked under 120,000 lb. psi.
- Conveniently packaged.
- Suitable for use with Schedule 40/80 pipe.
- 100% hydro tested.



\* Preferred over bronze to carbon steel seated unions.



**TYPE 601, 602, 604**

**DIMENSIONS (inches)**

NOMINAL PIPE SIZE	1/2 14#PT	1/2 16#PT	3/4 16#PT	1/2 14#PT	3/4 16#PT	1 1/2 12#PT	1 1/2 11 1/2#PT	1 1/2 11 1/2#PT	1 1/2 11 1/2#PT
A	1 3/4	1 3/4	2	2 1/4	2 7/16	2 11/16	2 31/32	3 1/8	3 11/16
B	1 1/4	1 1/4	1 7/16	1 21/32	2	2 3/8	2 3/4	3	3 23/32
C	3/4	3/4	7/8	1 3/32	1 25/64	1 5/8	2	2 9/32	2 51/64
D	51/64	51/64	15/16	1 11/64	1 7/16	1 23/32	2 3/32	2 11/32	2 7/8
E	25/4	4/2	4/8	5/4	5/8	6/8	7/7	7/4	7/7
F	3/4	3/4	13/16	1	1 1/16	1 3/32	1 19/64	1 21/64	1 15/32
G	1/2	1/2	9/16	1 1/16	3/4	27/32	7/8	1	1 7/32
H	19/32	19/32	3/4	25/32	29/32	1 1/16	1 5/32	1 7/32	1 7/16
I	21/64	3/8	1/2	5/8	27/32	1 1/16	1 13/32	1 21/32	2 1/16
J	29/32	29/32	1 1/16	1 5/16	1 37/64	1 13/16	2 1/4	2 1/2	3 1/16
K	1/8	1/8	1/8	3/16	7/32	7/32	9/32	9/32	19/64
L	7/8	7/8	15/16	1 1/8	1 3/16	1 5/16	1 7/16	1 1/2	1 25/32
M	1.035	1.035	1.164	1.437	1.693	1.975	2.415	2.649	3.221

STYLE NUT

Hex Hex Hex Hex Octagon Octagon Octagon Octagon Octagon

WEIGHT PER UNION (pounds)

.32 .30 .40 .72 1.10 1.5 2.2 2.6 4.6

**TYPE 602B**

**DIMENSIONS (inches)**

NOMINAL PIPE SIZE	1/2 14#PT	1/2 16#PT	3/4 16#PT	1/2 14#PT	3/4 16#PT	1 1/2 12#PT	1 1/2 11 1/2#PT	1 1/2 11 1/2#PT	1 1/2 11 1/2#PT
DEPTH SOCKET	7/16	7/16	7/16	1/2	1/2	9/16	9/16	9/16	1 1/16
SOCKET DIAMETER	420	555	590	855	1.065	1.330	1.675	1.915	2.406

STYLE NUT

Hex Hex Hex Hex Octagon Octagon Octagon Octagon Octagon

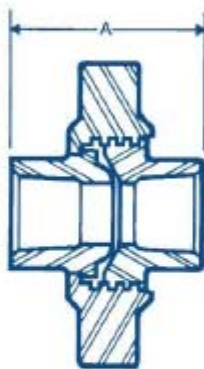
WEIGHT PER UNION (pounds)

.32 .30 .40 .72 1.10 1.5 2.2 2.6 4.6

# LUG NUT UNIONS

**CLASS 3000**

**CLASS 6000**



Lug Nut Unions from Bonney Forge are unions with modified Stub-Acme threads ideal for applications requiring rapid assembly and/or breakdown.

- Threaded and socket weld ends.
- Seating characteristics of AAR unions.
- Twin lugs in sizes up to 3/4" Class 3000 and 1/2 Class 6000.
- Tri-lug design in sizes from 1" - 4" Class 3000 and 3/4" - 2" Class 6000.
- Plated Lug Nut.

DIMENSIONS (inches)	CLASS 3000		CLASS 6000	
NOMINAL PIPE SIZE	A		A	
3/8	1.950		2.065	
1/2	2.085		2.375	
3/4	2.375		2.580	
1	2.580		2.950	
1 1/4	2.950		3.115	
1 1/2	3.115		3.575	
2	3.575		4.200	
2 1/2	4.200		-	
3	4.475		-	
4	6.50		-	