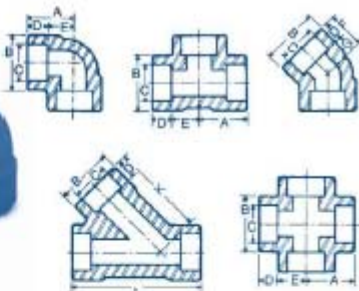


SOCKET WELD FITTINGS

CLASS 3000

CLASS 6000

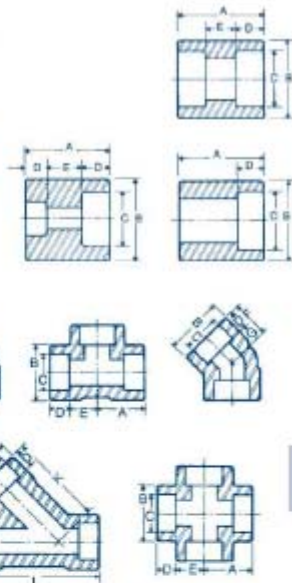
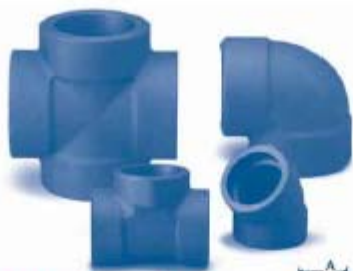


DIMENSIONS (inches)		NOMINAL PIPE SIZE											
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
CLASS 3000 - Schedule 40 Bore	90°EL TEE A	7/8	7/8	31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	3	3 3/8	4 3/16
	LAT B	29/32	29/32	1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/16	4 5/16	5 3/4
	(MIN.) D	3/8	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	3/4
	45°EL 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	3/8	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	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
	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	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)		.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	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	
	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 3/8	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)		.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)

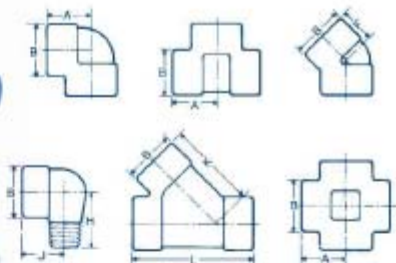
Coupling	.75	1.06	1.69	2.22	2.81	4.95
Reducer	.75	1.06	1.69	2.22	2.81	4.95
Half Coupling	.88	1.16	1.88	2.50	3.25	5.38

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	

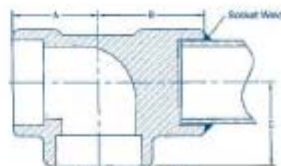
DIMENSIONS (inches)													
NOMINAL PIPE SIZE		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
90EL TEE STEL LAT	A		31/32	1 1/8	1 5/16	1 1/2	1 3/4	2	2 3/8	2 1/2	3 1/4	3 3/4	4 3/16
	B		1 1/16	1 5/16	1 9/16	1 27/32	2 7/32	2 1/2	3 1/32	3 11/32	4	4 3/4	5 3/4
	F		3/4	1	1 1/8	1 1/4	1 5/16	1 3/8	1 11/16	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

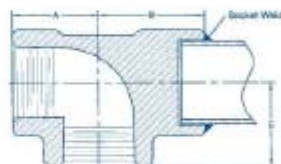
CLASS 3000

CLASS 6000

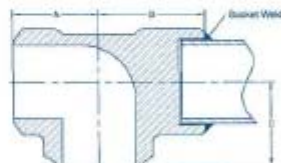
STD-XSTG



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	

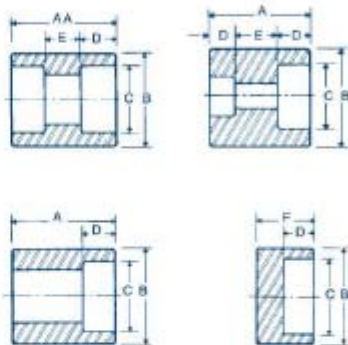
CLASS 6000	DIMENSIONS (Inches)	SOCKET WELD						THREADED					
	NOMINAL PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2	1/2	3/4	1	1 1/4	1 1/2	2
	A Nominal	-	1 1/2	1 3/4	2	2 3/8	2 1/2	1 1/2	1 3/4	2	2 3/8	2 1/2	-
B Nominal	-	1 7/8	2 3/16	2 1/2	3	3 1/8	1 7/8	2 3/16	2 1/2	3	3 1/8	-	
C Nominal	-	1 1/2	1 3/4	2	2 3/8	2 1/2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



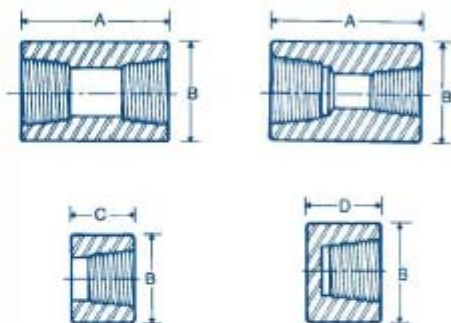
CLASS 3000	DIMENSIONS (Inches)												
	NOMINAL PIPE SIZE	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
	A	1 5/8	1 1/8	1 1/8	1 3/8	1 1/2	1 3/4	1 7/8	2	2 1/2	2 1/2	2 3/4	3
	AA	1 1/32	1 1/32	1 1/32	1 9/64	1 13/32	1 33/64	1 33/64	1 33/64	2 1/64	2 1/64	2 1/64	2 17/64
	B	3/4	7/8	1 1/16	1 1/4	1 1/2	1 13/16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

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	
	AA	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	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	
	C	.555	.690	.855	1.065	1.330	1.675	1.915	2.405	2.905	3.535	4.545	
	D	7/16	7/16	1/2	9/16	5/8	11/16	3/4	7/8	7/8	1	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	
	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	
	WEIGHT (pounds)												
COUPLING			.375	.563	1	1.438	2	3.875	5.50	6.625	13.125		
REDUCER			.375	.563	1	1.438	2	3.875	5.50	6.625	13.125		
HALF COUPLING			.375	.563	1	1.438	2	3.875	5.50	6.625	13.125		
PIPE CAP			.375	.50	1.125	1.125	2.25	3.50	5.625	6	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	1 1/16	3/4	15/16	1	1 3/16	15/16	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	1 1/16	3/4	15/16	1	1 3/16	15/16	1 9/16	1 11/16	1 13/16	2 1/8	2 3/8
D	1	1 1/16	1 1/16	15/16	1 1/2	1 11/16	1 3/16	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

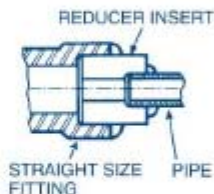
CLASS 9000



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	1 5/16	-	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

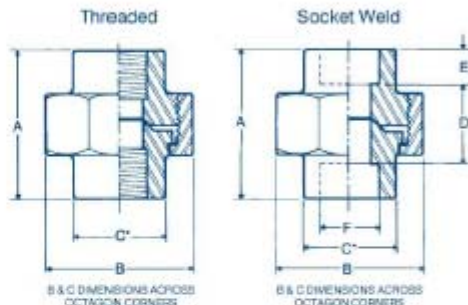
DIMENSIONS (Inches)												
NOMINAL PIPE SIZE	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
A	1 3/8	1 5/8	1 5/8	1 3/4	1 3/4	2	2	2	2 1/2	2 3/4	2 3/4	3
B	13/32	17/32	11/16	27/32	11/16	1 5/16	1 11/16	1 29/32	2 3/8	2 7/8	3 1/2	4 1/2
C *	7/16	5/8	11/16	7/8	1 1/16	1 7/16	1 13/16	2	2 1/2	3	3 3/4	4 5/8
D	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



B & C DIMENSIONS ACROSS OCTAGON CORNERS

B & C DIMENSIONS ACROSS OCTAGON CORNERS

* "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

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

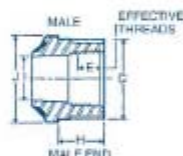
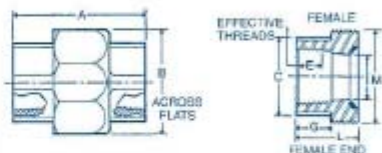
TYPE 602B

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

STYLE NUT

Hex	Hex	Hex	Hex	Octagon	Octagon	Octagon	Octagon	Octagon
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WEIGHT PER UNION (pounds)

.32	.30	.40	.72	1.10	1.5	2.2	2.6	4.6
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TYPE 602B

DIMENSIONS (inches)

NOMINAL PIPE SIZE	1/2 14#PT	3/4 14#PT	1 14#PT	1 1/2 14#PT	2 14#PT	2 1/2 14#PT	3 14#PT	4 14#PT	6 14#PT	8 14#PT
DEPTH SOCKET	7/16	7/16	7/16	1/2	1/2	9/16	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	2,406
STYLE NUT	Hex	Hex	Hex	Hex	Octagon	Octagon	Octagon	Octagon	Octagon	Octagon

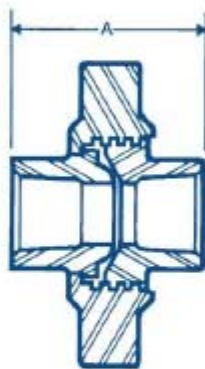
WEIGHT PER UNION (pounds)

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