

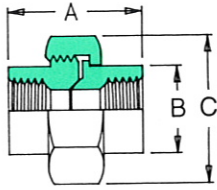
# Forged Unions - Union Elbows - Union Tees

## THREADED and SOCKET WELD

IN ACCORDANCE WITH MSS STANDARD PRACTICE, SP-83 \*

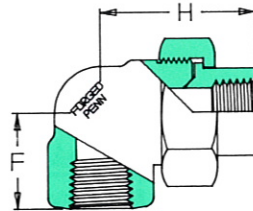
(\* - SP-83 FOR 3000 CLASS ONLY)

**MSS THREADED UNION**



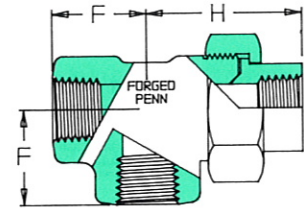
CLASS 3000 FIGURE NO. 03017  
CLASS 6000 FIGURE NO. 06017

**FEMALE THREADED UNION ELBOW**



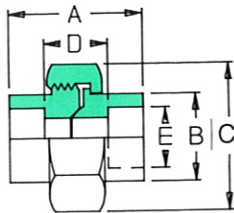
CLASS 3000 FIGURE NO. 30059  
CLASS 6000 FIGURE NO. 60059

**FEMALE THREADED UNION TEE**



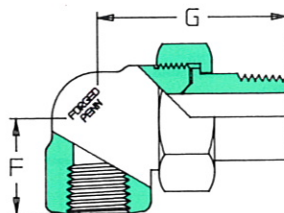
CLASS 3000 FIGURE NO. 30017  
CLASS 6000 FIGURE NO. 60017

**MSS SOCKET-WELD UNION**



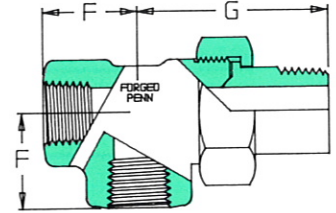
CLASS 3000 FIGURE NO. 13017  
CLASS 6000 FIGURE NO. 16017

**MALE THREADED UNION ELBOW**



CLASS 3000 FIGURE NO. 30058  
CLASS 6000 FIGURE NO. 60058

**MALE THREADED UNION TEE**



CLASS 3000 FIGURE NO. 30017  
CLASS 6000 FIGURE NO. 60017

### 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
Dimension A	1-11/16	1-11/16	1-13/16	1-15/16	2-1/4	2-7/16	2-13/16	3	3-3/8	4-1/32	4-5/16
Dimension B	55/64	55/64	1-1/32	1-15/64	1-15/32	1-51/64	2-11/64	2-7/16	2-31/32	3-39/64	4-5/16
Dimension C*	1-3/8	1-3/8	1-5/8	1-13/16	2-1/4	2-9/16	3-1/16	3-7/16	4-1/16	4-7/8	5-11/16
Dimension D	13/16	13/16	15/16	15/16	1-1/8	1-3/16	1-7/16	1-1/2	1-5/8	2-1/4	2-5/16
Dimension E	.426	.560	.693	.859	1.071	1.335	1.682	1.922	2.410	2.910	3.536
Dimension F	1-1/8	1-1/8	1-1/8	1-5/16	1-1/2	1-3/4	2-3/8	2-3/8	3	3-3/4	4-3/16
Dimension G	2-5/8	2-5/8	2-7/8	3-7/32	3-9/16	4-3/32	4-7/8	4-31/32	6	6-11/16	7-27/32
Dimension H	1-15/16	1-15/16	2-1/32	2-9/32	2-9/16	2-31/32	3-13/16	3-13/16	4-3/4	5-11/16	6-13/32
Wt. of Union	.40	.38	.52	.73	1.19	1.66	2.66	3.42	5.36	9.12	12.58
Wt. of Union Elbow	.96	.94	.98	1.30	1.90	3.00	3.88	6.63	8.13	22.50	27.20
Wt. of Union Tee	1.15	1.13	1.18	1.56	2.28	3.60	4.66	7.90	9.20	27.30	32.30

### CLASS 6000

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
Dimension A	1-11/16	1-13/16	1-15/16	2-1/4	2-7/16	2-13/16	3	3-3/8	4-1/32	4-5/16	--
Dimension B	55/64	1-1/32	1-15/64	1-15/32	1-51/64	2-11/64	2-7/16	2-31/32	3-39/64	4-5/16	--
Dimension C*	1-3/8	1-5/8	1-13/16	2-1/4	2-9/16	3-1/16	3-7/16	4-1/16	4-7/8	5-11/16	--
Dimension D	13/16	13/16	15/16	15/16	1-1/8	1-3/16	1-7/16	1-1/2	1-5/8	2-1/4	--
Dimension E	.426	.560	.693	.859	1.071	1.335	1.682	1.922	2.410	2.910	--
Wt. of Union	.48	.56	.75	1.35	2.01	3.17	3.92	6.60	10.12	14.00	--

AVAILABLE IN A COMPLETE RANGE OF CARBON,

STAINLESS, ALLOY STEELS, AND NON-FERROUS METALS.

ANY COMBINATION OF THREADED AND SOCKET WELD ENDS CAN BE FURNISHED. (MALE x FEMALE, ETC.)

\*C dimension is across octagon or hexagon flats.

Union Elbows and Tees can be furnished with any combination of union outlets.

### 9000 CLASS AVAILABLE

DIMENSIONS IN INCHES  
WEIGHTS IN POUNDS