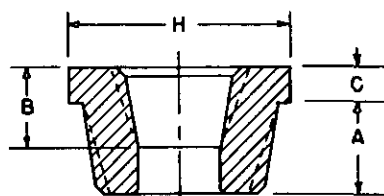
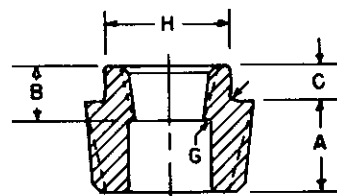


FED. SUP CLASS
4730

OUTSIDE HEAD



INSIDE HEAD

REVIEWER: CS, GL, ME, MU
USER: AT, MC, MI

DASH NO.	PIPE SIZE NOMINAL	A LENGTH OF EXTERNAL THREAD MIN	B LENGTH OF INTERNAL THREAD MIN	C HEIGHT OF HEAD MIN	H WIDTH OF HEAD MIN		G * METAL THICKNESS
					OUTSIDE	INSIDE	
1	1/4 x 1/8	.44	.26	.14	.64		
2	3/8 x 1/4	.48	.40	.16	.68		
3	3/8 x 1/8	.48	.25	.16	.68		
4	1/2 x 3/8	.56	.41	.19	.87		
5	1/2 x 1/4	.56	.32	.19	.87		
6	1/2 x 1/8	.56	.25	.19	.87		
7	3/4 x 1/2	.63	.53	.22	1.15		
8	3/4 x 3/8	.63	.36	.22	1.15		
9	3/4 x 1/4	.63	.32	.22	1.15		
10	1 x 3/4	.75	.50	.25	1.42		
11	1 x 1/2	.75	.43	.25	1.42		
12	1 x 3/8	.75	.36	.30		1.12	
13	1 x 1/4	.75	.32	.30		1.12	
14	1-1/4 x 1	.80	.58	.28	1.76		
15	1-1/4 x 3/4	.80	.50	.28	1.76		
16	1-1/4 x 1/2	.80	.43	.34		1.34	.185
17	1-1/4 x 3/8	.80	.36	.34		1.12	.185
18	1-1/2 x 1-1/4	.83	.71	.31	2.00		
19	1-1/2 x 1	.83	.58	.31	2.00		
20	1-1/2 x 3/4	.83	.50	.37		1.63	.200
21	1-1/2 x 1/2	.83	.43	.37		1.34	.200
22	2 x 1-1/2	.88	.70	.34	2.48		
23	2 x 1-1/4	.88	.67	.34	2.48		
24	2 x 1	.88	.58	.41		1.95	.220
25	2 x 3/4	.88	.50	.41		1.63	.220
26	2 x 1/2	.88	.43	.41		1.34	.220
27	2-1/2 x 2	1.07	.75	.37	2.98		
28	2-1/2 x 1-1/2	1.07	.70	.44	2.68		
29	2-1/2 x 1-1/4	1.07	.67	.44		2.39	.240
30	2-1/2 x 1	1.07	.58	.44		1.95	.240
31	3 x 2-1/2	1.13	.92	.40	3.86		
32	3 x 2	1.13	.75	.48	3.28		
33	3 x 1-1/2	1.13	.70	.48		2.68	.260
34	3 x 1-1/4	1.13	.67	.48		2.39	.260
35	4 x 3	1.22	.98	.50	4.62		

NOTES:

1. **MATERIAL:** Brass or bronze in accordance with the procurement specification.
2. **PROTECTIVE COATING:** None.
3. **DIMENSIONS:** All dimensions are in accordance with ANSI B16.15.
4. **THREADS:** The threads shall be American Standard Pipe Threads (NPT) in accordance with Screw-Thread Standards for Federal Service, Handbook H-28.
5. **PART NUMBER:** The MS part number consists of the MS number, plus the dash number.
Example: MS51847-1.
6. The heads of the bushings shall be either hexagonal or octagonal.
7. Bushings reducing to pipe sizes smaller than given are bushed from the smallest reduction appearing in the table.
8. These bushings are for use in application where pressures do not exceed 185 pounds.
9. For design feature purposes, this standard takes precedence over procurement documents referenced herein.
10. Referenced documents shall be of the issue in effect on date of invitation for bid.
11. The illustration is for identification and is not intended to restrict designs or shapes not designated.
- * 12. Metal thickness at no point shall be less than 90 percent of the thickness given in the tables.

(A) FULLY COORDINATED

P.A. WC	TITLE	MILITARY STANDARD
Other Cust YD 82	BUSHING, PIPE, SHOULDER	MS51847
PROCUREMENT SPECIFICATION (A) WW-P-460	SUPERSEDES: CPHX3	SHEET 1 OF 1