SECTION 4

PLUGS AND BUSHINGS

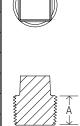
PLUGS

NPS	Thread Length A (min)	
1/8	0.37	
1/4	0.44	
3/8	0.48	
1/2	0.56	
3/4	0.63	
1	0.75	
1 1/4	0.80	
1 1/2	0.83	
2	0.88	
2 1/2	1.07	
3	1.13	
3 1/2	1.18	
4	1.22	
5	1.31	
6	1.40	
8	1.57	
10	1.92	

WARD Plugs and Bushings are produced in both Malleable Iron and Cast Iron grades. The iron from which they are made is held to strict formula by careful chemical analysis and control.

Tapping is done on the most modern type of threading machines. Every fitting is hand sorted and inspected to eliminate defective castings.

Ward plugs and bushings comply with the standards and specifications seen below.



SOLID PLUG



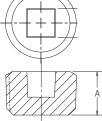


CORED BAR HEAD



SOLID BAR HEAD





COUNTERSUNK

Internal

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OUTSIDE HEAD

INSIDE HEAD

Material: ASTM A197 for malleable iron **ASTM A126 Class A Minimum** for cast iron **Dimensions: ASME B16.14** ANSI/ASME B1.20.1 Pressure ASME B16.3 for malleable iron ASME B16.4 for cast iron **Ratings**: **Coatings**: **ASTM A153 ASTM B633** Additional UL, ULC, FM, NSF 61 and **NSF 61 Annex G where applicable** Specifications:

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NPS	Thread Length (min)	Thread Length (min)	
1/4	0.44	0.32	
3/8	0.48	0.36	
1/2	0.56	0.43	
3/4	0.63	0.50	
1	0.75	0.58	
1 1/4	0.80	0.67	
1 1/2	0.83	0.70	
2	0.88	0.75	
2 1/2	1.07	0.92	
3	1.13	0.98	
3 1/2	1.18	1.03	
4	1.22	1.08	
5	1.31	1.18	
6	1.40	1.28	
8	1.57	_	
10	1.92	_	

BUSHINGS

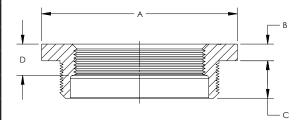
External

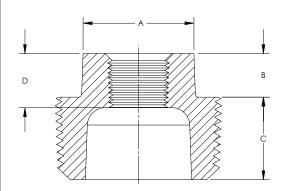
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CAST IRON HEXAGON BUSHINGS CLASS 125

NPS	Width of Head A	Height of Head B	Length of External Threads C (min)	Length of Internal Threads D (min)	Inside or Outside Head
1 1/4 x 3/4	1.76	0.28	0.80	0.50	Outside
1 1/4 x 1/2	1.34	0.34	0.80	0.43	Inside
1 1/4 x 3/8	1.12	0.34	0.80	0.36	Inside
1 1/4 x 1/4	1.12	0.34	0.80	0.32	Inside
*1 1/4 x 1/8	1.12	0.34	0.80	0.32	Inside
1 1/2 x 1	2.00	0.31	0.83	0.58	Outside
1 1/2 x 3/4	1.63	0.37	0.83	0.50	Inside
1 1/2 x 1/2	1.34	0.37	0.83	0.43	Inside
1 1/2 x 3/8					Inside
1 1/2 x 1/4	1.12	0.37	0.83	0.32	Inside
*1 1/2 x 1/8	1.12	0.37	0.83	0.32	Inside
2 x 1 1/4	2.48	0.34	0.88	0.67	Outside
2 x 1	1.95	0.41	0.88	0.58	Inside
2 x 3/4	1.63	0.41	0.88	0.50	Inside
2 x 1/2	1.34	0.41	0.88	0.43	Inside
2 x 3/8	1.12	0.41	0.88	0.36	Inside
2 x 1/4	1.12	0.41	0.88	0.32	Inside
*2 x 1/8	1.12	0.41	0.88	0.32	Inside
2 1/2 x 1 1/2	2.68	0.44	1.07	0.70	Outside
2 1/2 x 1 1/4	2.39	0.44	1.07	0.67	Inside
2 1/2 x 1	1.95	0.44	1.07	0.58	Inside
2 1/2 x 3/4	1.63	0.44	1.07	0.50	Inside
2 1/2 x 1/2	1.34	0.44	1.07	0.43	Inside
*2 1/2 x 3/8	1.34	0.44	1.07	0.36	Inside
3 x 2 1/2	3.86	0.40	1.13	0.92	Outside
3 x 2	3.28	0.48	1.13	0.75	Outside
3 x 1 1/2	2.68	0.48	1.13	0.70	Inside
3 x 1 1/4	2.390	0.48	1.13	0.67	Inside
3 x 1	1.95	0.48	1.13	0.58	Inside
3 x 3/4	1.63	0.48	1.13	0.50	Inside
3 x 1/2	_				Inside
*3 x 1/4	2.68	0.48	1.13	0.32	Inside
3 1/2 x 2 1/2	3.86	0.52	1.18	0.92	Outside
3 1/2 x 2	3.28	0.52	1.18	0.75	Inside









Continued on next page

* Manufactured to WARD specifications