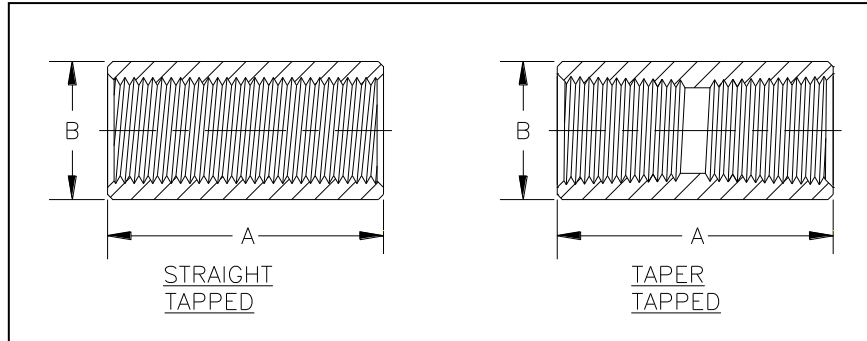


Couplings, Standard Merchant



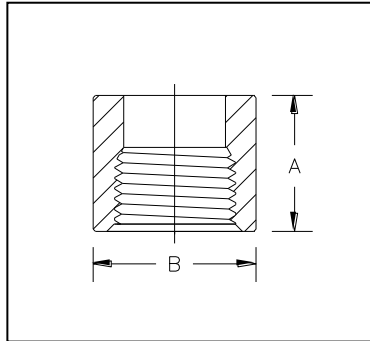
Material: AISI C1010 Sizes 1/8" to 1"
 ASTM A53 Type F Sizes 1-1/4" to 3"
 ASTM A106 Grade B Sizes 3-1/2" to 6"
 Conforms to: ASTM A865, ASME B1.20.1

Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
A	0.812	1.188	1.188	1.562	1.625	2.000	2.062	2.062	2.125
B	0.562	0.719	0.875	1.062	1.312	1.576	1.900	2.200	2.750
Approx Weight	0.05	0.07	0.09	0.17	0.26	0.40	0.48	0.67	1.05

Pipe Size	2-1/2	3	3-1/2	4	5	6
A	3.125	3.250	3.375	3.500	3.750	4.000
B	3.250	4.000	4.625	5.000	6.296	7.390
Approx Weight	2.09	3.35	4.82	4.61	8.52	11.27

Notes: Unless otherwise specified, Standard Merchant Couplings are furnished straight tapped in sizes in sizes 1/8" to 2" inclusive.
 Standard Merchant Couplings in 2" size are available Taper Tapped as special.
 Standard Merchant Couplings in sizes 2-1/2" to 6" are furnished Taper Tapped.
 Galvanized couplings are Electro Zinc Plated.
 Black couplings are phosphate coated.

Half Couplings, Standard Merchant



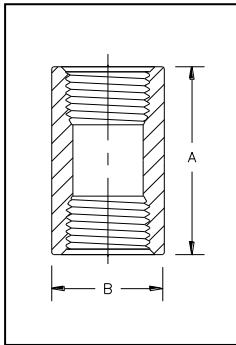
Material: ASTM A53 Type F Sizes 1/8" to 3"
 ASTM A106 Grade B Sizes 3-1/2" to 6"
 Conforms to: ASTM A865, ASME B1.20.1

Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
A	0.344	0.531	0.531	0.719	0.750	0.937	0.969	0.969	1.000
B	0.562	0.719	0.875	1.062	1.312	1.576	1.900	2.200	2.750
Approx Weight	0.02	0.04	0.05	0.08	0.12	0.18	0.23	0.32	0.47

Pipe Size	2-1/2	3	3-1/2	4	5	6
A	1.500	1.562	1.625	1.688	1.750	1.875
B	3.250	4.000	4.625	5.000	6.296	7.390
Approx Weight	0.96	1.60	2.22	2.11	3.80	5.28

Notes: Unless otherwise specified, Standard Merchant Half Couplings are furnished
 Taper Tapped in sizes 1/8" to 1" inclusive.
 Straight Tapped in sizes 1-1/4" to 2" inclusive and Taper Tapped in sizes 2-1/2" to 6" inclusive.
 Galvanized couplings are Electro Zinc Plated.
 Black couplings are phosphate coated.

Couplings, XH No Recess, Threaded



Material: ASTM A105

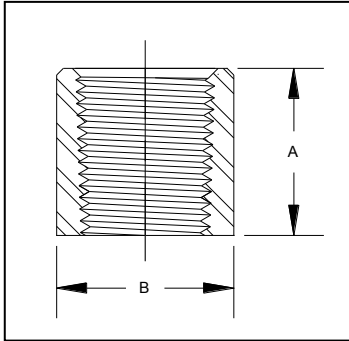
Dimensions: AAR 404, ASME B1.20.1

Pipe Size	1/8 *	1/4	3/8	1/2	3/4	1	1-1/4
A	1.062	1.625	1.625	2.125	2.125	2.625	2.750
B	0.562	0.719	0.875	1.062	1.312	1.576	2.054
Approx Weight	0.04	0.09	0.14	0.25	0.36	0.68	1.08

Pipe Size	1-1/2	2	2-1/2	3	3-1/2 *	4 *	5 *	6 *
A	2.750	2.875	4.125	4.250	4.375	4.500	4.625	4.875
B	2.200	2.875	3.375	4.000	4.625	5.200	6.296	7.390
Approx Weight	0.95	2.01	3.53	4.61	6.25	8	10.51	13.74

Note: Sizes marked " * " not covered under AAR 404

Half Couplings, XH No Recess, Threaded



Material: ASTM A105 or Seamless Tubing

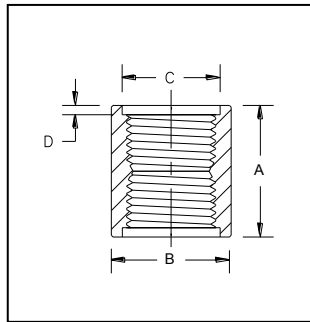
Dimensions: AAR 404, ASME B1.20.1

Pipe Size	1/8 *	1/4	3/8	1/2	3/4	1	1-1/4
A	0.468	0.750	0.750	1.000	1.000	1.250	1.312
B	0.562	0.719	0.875	1.062	1.312	1.576	2.054
Approx Weight	0.02	0.04	0.06	0.11	0.17	0.35	0.51

Pipe Size	1-1/2	2	2-1/2	3	3-1/2 *	4 *	5 *	6 *
A	1.312	1.375	2.000	2.062	2.125	2.188	2.188	2.312
B	2.200	2.875	3.375	4.000	4.625	5.200	6.296	7.390
Approx Weight	0.45	0.92	1.72	2.12	2.97	3.84	4.85	6.85

Note: Sizes marked " * " not covered under AAR 404

API Line Pipe Couplings



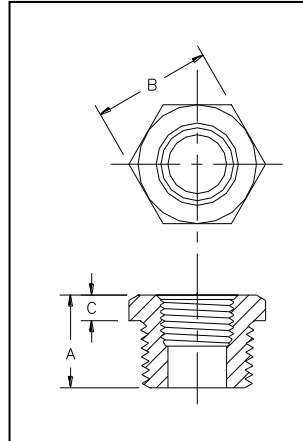
Material: API 5L Section 8

Dimensions: API 5L, API 5B

Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
A	1.062	1.625	1.625	2.125	2.125	2.625	2.750	2.750	2.875
B	0.562	0.718	0.875	1.062	1.312	1.576	2.054	2.200	2.875
C	0.468	0.603	0.738	0.903	1.113	1.378	1.723	1.963	2.469
D	0.052	0.120	0.115	0.158	0.152	0.224	0.228	0.244	0.238
Approx Weight	0.04	0.09	0.13	0.24	0.34	0.54	1.03	1.30	1.86

Pipe Size	2-1/2	3	3-1/2	4	5	6	8	10	12
A	4.125	4.250	4.375	4.500	4.625	4.875	5.250	5.750	6.125
B	3.375	4.000	4.625	5.200	6.296	7.390	9.625	11.750	14.000
C	2.969	3.594	4.094	4.594	5.657	6.719	8.719	10.844	12.844
D	0.492	0.471	0.466	0.492	0.505	0.586	0.677	0.739	0.787
Approx Weight	3.27	4.09	5.92	7.59	9.98	12.92	23.18	31.55	49.27

Hex Bushings, Standard Pressure

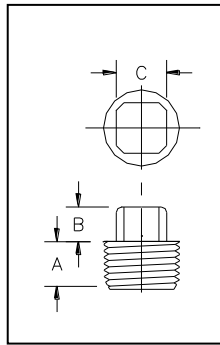


Material: AISI C1010
 Conforms to: ASME B16.14, ASME B1.20.1

Pipe Size	1/4	3/8	1/2	3/4	1
A	0.640	0.700	0.880	0.970	1.190
B	0.620	0.690	0.880	1.060	1.380
C	0.140	0.190	0.190	0.220	0.310
Approx. Weight	0.02	0.05	0.11	0.21	0.36

Sizes Available: 1/4 x 1/8 3/4 x 1/2 1 x 3/4
 3/8 x 1/4 3/4 x 3/8 1 x 1/2
 3/8 x 1/8 3/4 x 1/4 1 x 3/8
 1/2 x 3/8 3/4 x 1/8 1 x 1/4
 1/2 x 1/4 1 x 1/8
 1/2 x 1/8

Pipe Plugs, Standard Pressure, Square Head

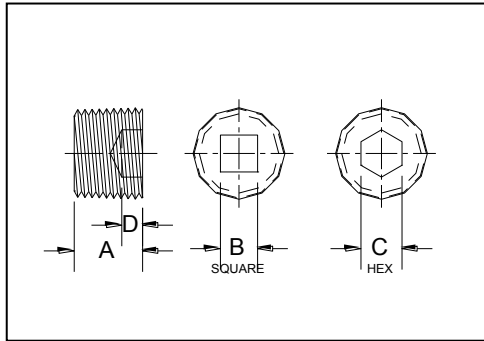


Material: AISI C1008-C1010,
 Conforms To: SAE J531, ASME B1.20.3

Pipe Size	1/8	1/4	3/8	1/2	3/4
A	0.375	0.500	0.500	0.688	0.688
B	0.250	0.281	0.312	0.375	0.437
C	0.281	0.375	0.437	0.562	0.625
Approx Weight	0.02	0.04	0.06	0.12	0.19

Notes: Dimensions conform to SAE J531
 Threads conform to NPTF tolerances specified in ASME B1.20.3
 Materials conform to AISI C1008-1010
 All sizes available in raw black phosphated with rust inhibitor or electro-zinc plated

Pipe Plugs, Standard Pressure, Square & Hex Counter Sunk



Material: AISI C1008-C1010, AISI C12L14

Conforms To: SAE J531, ASME B16.14, ASME B1.20.3

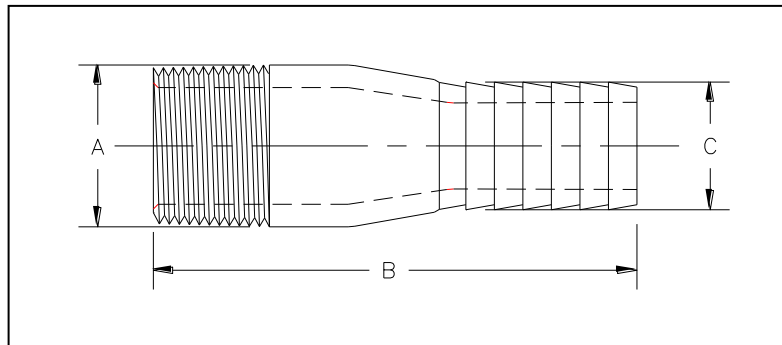
Dimensions: SAE J531, ASME B16.14, ASME B1.20.3

Pipe Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
A	0.312	0.469	0.469	0.625	0.812	0.781	0.812	0.844	0.891
B	0.188	0.250	0.328	0.359	0.500	0.500	0.750	0.750	0.875
C	0.188	0.250	0.312	0.375	0.562	0.625	0.750	1.000	1.000
D	0.125	0.188	0.188	0.250	0.312	0.375	0.422	0.406	0.406
Approx. Weight	0.01	0.02	0.03	0.06	0.10	0.20	0.33	0.46	0.88

Notes:

- Dimensions of sizes from 1/8" through 1" conform to SAE J531
- Dimensions of sizes from 1-1/4" through 2" conform to ASME B16.14
- Threads conform to NPTF tolerances specified in ASME B1.20.3
- Materials for sizes 1/8" through 1-1/4" conform to AISI C1008-1010
- Materials for sizes 1-1/2" through 2" conform to AISI C12L14
- All sizes available in raw black phosphated with rust inhibitor or electro-zinc plated

Serrated Male Adapters for Plastic Pipe

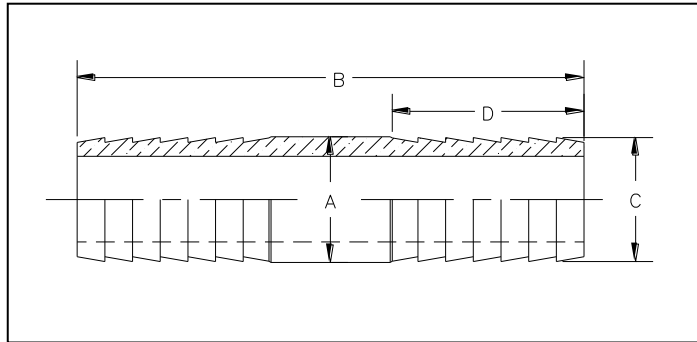


Material: ASTM A53 Galvanized Pipe, ASTM B43 Red Brass

Part Number	M-10	M-20	M-30	M-40	M-50	M-60	M-70	M-80	M-90
Pipe Size	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
A	0.840	1.050	1.315	1.660	1.900	2.375	2.875	3.500	4.500
B	3.125	3.375	3.500	3.500	4.250	4.250	5.375	5.875	7.000
C	0.645	0.845	1.075	1.405	1.640	2.095	2.505	3.100	4.060
Approx Weight	0.14	0.23	0.34	0.50	0.64	0.90	2.00	2.50	4.50

Notes: Use with Schedule 40 Plastic Pipe
 Plastic Pipe must be secured to Adapter with One or Two Worm Type Hose Clamps
 Pressure Rating equals that of Plastic Pipe

Serrated Adapters Insert Couplings



Material: ASTM A53 Galvanized Pipe, ASTM B43 Red Brass

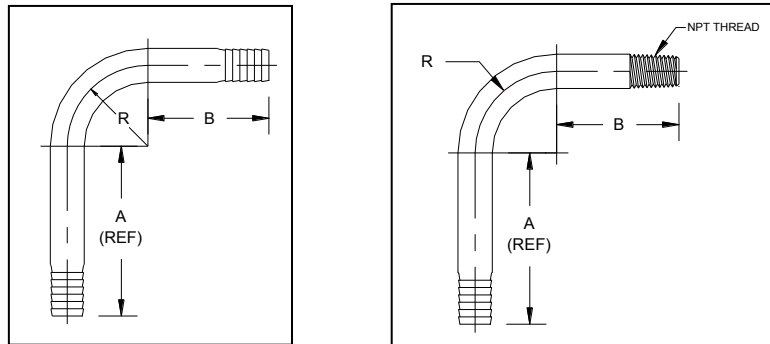
Dimensions: Serrated Dimensions per ASTM D2609

Part No.	C-10	C-20	C-30	C-40	C-50	C-60	C-70	C-80	C-90
Pipe Size	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4.000
A	0.675	0.840	1.075	1.525	1.660	2.162	2.505	3.100	4.060
B	3.375	3.375	3.625	3.625	3.750	3.750	5.500	6.000	7.750
C	0.645	0.845	1.075	1.405	1.640	2.095	2.505	3.100	4.060
D	1.281	1.281	1.281	1.281	1.281	1.281	2.250	2.750	3.500
Approx Weight Steel	0.10	0.18	0.38	0.36	0.60	1.21	1.50	2.50	5.75
Approx Weight Brass	0.09	0.19	0.30	0.46	0.62	1.07	1.50	2.50	5.75

Notes:

- Use with Schedule 40 Plastic Pipe
- Plastic Pipe must be secured to Adapter with One or Two Worm Type Hose Clamps
- Pressure Rating equals that of Plastic Pipe

Serrated Adapters, Well Seal Elbows



Styles: Both Ends Serrated or One End Serrated x NPT Pipe Threads

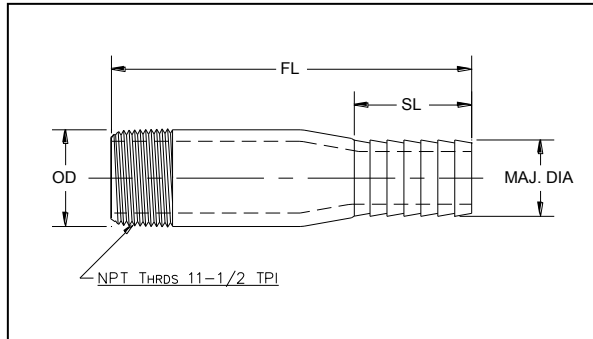
Material: ASTM A53 Galvanized Pipe, ASTM B43 Red Brass

Dimensions: Serrated Dimensions per ASTM D2609, NPT Pipe Threads per ASME B1.20.1

Pipe Size	Part No.	Dim A Ref	Dim B	R	
				Steel	Brass
1	W-30	5-1/4	3-3/4	3	2-1/4
1-1/4	W-40	5-1/4	3-3/4	4-7/8	3-7/8

Notes: Use with Schedule 40 Plastic Pipe
 Plastic Pipe must be secured to Adapter with One or Two Worm Type Hose Clamps
 Pressure Rating equals that of Plastic Pipe

Serrated Adapters Male Venturi



Material: ASTM A53 Galvanized Pipe

Dimensions: Serrated Dimensions per ASTM D2609, NPT Pipe Threads per ASME B1.20.1

Pipe Size	Part No.	OD	FL	SL	Maj. Dia.
1	MV-310	1.315	10	1-9/32	1.075
1-1/4	MV-410	1.660	10	1-9/32	1.405

Notes: Use with Schedule 40 Plastic Pipe
 Plastic Pipe must be secured to Adapter with One or Two Worm Type Hose Clamps
 Pressure Rating equals that of Plastic Pipe