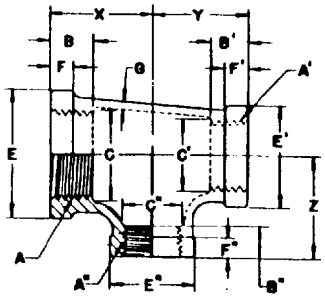
REDUCING PIPE TEES
GENERAL SPECIFICATIONS
M111



A × A' × A" Nominal Size and Taper Pipe Thread			B Thread Depth	B' Thread Depth	B" Thread Depth	C Inside Diameter	C' Inside Diameter	C' Inside Diameter	C' Inside Diameter	C" Inside Diameter	C" Inside Diameter	E Flange Diameter	E' Flange Diameter	E" Flange Diameter	F Flange Thickness	F' Flange Thickness	F" Flange Thickness	G Wall Thickness	X Center to End	X Center to End	Y Center to End	Y Center to End	Z Center to End	Z Center to End	GM PART NUMBERS Malleable Iron	GM PART NUMBERS Malleable Iron
			Min.	Min.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Plain	Zinc Dull
1/4	1/4	3/8	.32	.32	.38	.584	.540	.584	.540	.719	.675	.844	.844	1.015	.215	.215	.230	.090	.95	.85	.95	.85	.93	.83	218233	218234
3/8	1/4	1/4	.36	.32	.32	.719	.675	.584	.540	.584	.540	1.015	.844	.844	.230	.215	.215	.090	.93	.83	.86	.76	.95	.85	218239	218240
3/8	1/4	3/8	.36	.32	.36	.719	.675	.584	.540	.719	.675	1.015	.844	1.015	.230	.215	.230	.090	1.00	.90	.95	.85	1.00	.90	218237	218238
3/8	3/8	1/8	.36	.36	.25	.719	.675	.719	.675	.435	.405	1.015	1.015	.693	.230	.230	.200	.090	.86	.76	.86	.76	.90	.80	218235	218236
3/8	3/8	1/4	.36	.36	.32	.719	.675	.719	.675	.584	.540	1.015	1.015	.844	.230	.230	.215	.090	.93	.83	.93	.83	.95	.85	120279	179612
3/8	3/8	1/2	.36	.36	.43	.719	.675	.719	.675	.897	.840	1.015	1.015	1.197	.230	.230	.249	.094	1.09	.97	1.09	.97	1.10	.98	189393	179613
1/2	3/8	3/8	.43	.36	.36	.897	.840	.719	.675	.719	.675	1.197	1.015	1.015	.249	.230	.230	.094	1.10	.98	1.11	.99	1.09	.97	218243	179616
1/2	3/8	1/2	.43	.36	.43	.897	.840	.719	.675	.897	.840	1.197	1.015	1.197	.249	.230	.249	.094	1.18	1.06	1.09	.97	1.18	1.06	142364	179615
1/2	1/2	1/4	.43	.43	.32	.897	.840	.897	.840	.584	.540	1.197	1.197	.844	.249	.249	.215	.094	1.13	.91	1.13	.91	1.14	.92	187713	218242
1/2	1/2	3/8	.43	.43	.36	.897	.840	.897	.840	.719	.675	1.197	1.197	1.015	.249	.249	.230	.094	1.10	.98	1.10	.98	1.09	.97	143166	179614
1/2	1/2	3/4	.43	.43	.50	.897	.840	.897	.840	1.107	1.050	1.197	1.197	1.458	.249	.249	.273	.108	1.28	1.16	1.28	1.16	1.26	1.14	189439	218241
3/4	1/2	3/8	.50	.43	.36	1.107	1.050	.897	.840	.719	.675	1.458	1.197	1.015	.273	.249	.230	.108	1.18	1.06	1.10	.98	1.19	1.07	218253	218254
3/4	1/2	1/2	.50	.43	.43	1.107	1.050	.897	.840	.897	.840	1.458	1.197	1.197	.273	.249	.249	.108	1.26	1.14	1.18	1.06	1.28	1.16	187561	218252
3/4	1/2	3/4	.50	.43	.50	1.107	1.050	.897	.840	1.107	1.050	1.458	1.197	1.458	.273	.249	.273	.108	1.37	1.25	1.28	1.16	1.37	1.25	189775	218251
3/4	3/4	1/4	.50	.50	.32	1.107	1.050	1.107	1.050	.584	.540	1.458	1.458	.844	.273	.273	.215	.108	1.11	.99	1.11	.99	1.14	1.02	218249	218250
3/4	3/4	3/8	.50	.50	.36	1.107	1.050	1.107	1.050	.719	.675	1.458	1.458	1.015	.273	.273	.230	.108	1.18	1.06	1.18	1.06	1.19	1.07	218248	179618
3/4	3/4	1/2	.50	.50	.43	1.107	1.050	1.107	1.050	.897	.840	1.458	1.458	1.197	.273	.273	.249	.108	1.26	1.14	1.26	1.14	1.26	1.16	218246	218247
3/4	3/4	1	.50	.50	.58	1.107	1.050	1.107	1.050	1.385	1.315	1.458	1.458	1.771	.273	.273	.302	.121	1.52	1.38	1.52	1.38	1.44	1.30	218244	218245
1	1/2	1/2	.58	.43	.43	1.385	1.315	.897	.840	.897	.840	1.771	1.197	1.197	.302	.249	.249	.121	1.33	1.19	1.19	1.05	1.43	1.29	187720	179626
1	1/2	3/4	.58	.43	.50	1.385	1.315	.897	.840	1.107	1.050	1.771	1.197	1.458	.302	.249	.273	.121	1.44	1.30	1.29	1.15	1.52	1.38	218286	179625
1	1/2	1	.58	.43	.58	1.385	1.315	.897	.840	1.385	1.315	1.771	1.197	1.771	.302	.249	.302	.121	1.57	1.43	1.43	1.29	1.57	1.43	187560	179624
1	3/4	1/2	.58	.50	.43	1.385	1.315	1.107	1.050	.897	.840	1.771	1.458	1.197	.302	.273	.249	.121	1.33	1.19	1.27	1.13	1.43	1.29	218278	218283
1	3/4	3/4	.58	.50	.50	1.385	1.315	1.107	1.050	1.107	1.050	1.771	1.458	1.458	.302	.273	.273	.121	1.44	1.30	1.36	1.24	1.52	1.38	218259	179420
1	3/4	1	.58	.50	.58	1.385	1.315	1.107	1.050	1.385	1.315	1.771	1.458	1.771	.302	.273	.302	.121	1.57	1.43	1.52	1.38	1.57	1.43	218258	179623
1	1	3/8	.58	.58	.36	1.385	1.315	1.385	1.315	.719	.675	1.771	1.771	1.015	.302	.302	.230	.121	1.25	1.11	1.25	1.11	1.34	1.20	189369	179622
1	1	1/2	.58	.58	.43	1.385	1.315	1.385	1.315	.897	.840	1.771	1.771	1.197	.302	.302	.249	.121	1.33	1.19	1.33	1.19	1.43	1.29	187407	191133
1	1	3/4	.58	.58	.50	1.385	1.315	1.385	1.315	1.107	1.050	1.771	1.771	1.458	.302	.302	.273	.121	1.44	1.30	1.44	1.30	1.52	1.38	187772	179621
1	1	1-1/4	.58	.58	.67	1.385	1.315	1.385	1.315	1.730	1.660	1.771	1.771	2.153	.302	.302	.341	.130	1.74	1.60	1.74	1.60	1.66	1.51	218257	187408
1	1	1-1/2	.58	.58	.70	1.385	1.315	1.385	1.315	1.970	1.900	1.771	1.771	2.427	.302	.302	.368	.130	1.88	1.72	1.88	1.72	1.73	1.57	218255	218256
1-1/4	3/4	3/4	.67	.50	.50	1.730	1.660	1.107	1.050	1.107	1.050	2.153	1.458	1.458	.341	.273	.273	.130	1.52	1.38	1.38	1.24	1.69	1.55	218606	218607
1-1/4	3/4	1	.67	.50	.58	1.730	1.660	1.107	1.050	1.385	1.315	2.153	1.458	1.771	.341	.273	.302	.130	1.65	1.51	1.52	1.38	1.74	1.60	218604	218605
1-1/4	3/4	1-1/4	.67	.50	.67	1.730	1.660	1.107	1.050	1.730	1.660	2.153	1.458	2.153	.341	.273	.341	.130	1.82	1.68	1.69	1.55	1.82	1.68	218603	179629

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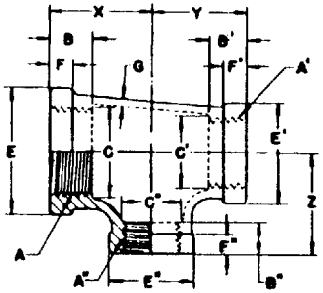

A x A' x A" Nominal Size and Taper Pipe Thread			B Thread Depth	B' Thread Depth	B" Thread Depth	C Inside Diameter		C' Inside Diameter		C" Inside Diameter		E Flange Diameter	E' Flange Diameter	E" Flange Diameter	F Flange Thickness	F' Flange Thickness	F" Flange Thickness	G Wall Thickness	X Center to End		Y Center to End		Z Center to End		GM PART NUMBERS Malleable Iron	
			Min.	Min.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Plain	Zinc Dull
1-1/4	1	3/4	.67	.58	.50	1.730	1.660	1.385	1.315	1.107	1.050	2.153	1.771	1.458	.341	.302	.273	.130	1.52	1.38	1.44	1.30	1.69	1.55	218601	218602
1-1/4	1	1	.67	.58	.58	1.730	1.660	1.385	1.315	1.385	1.315	2.153	1.771	1.771	.341	.302	.302	.130	1.65	1.51	1.65	1.51	1.74	1.60	218300	186553
1-1/4	1	1-1/4	.67	.58	.67	1.730	1.660	1.385	1.315	1.730	1.660	2.153	1.771	2.153	.341	.302	.341	.130	1.82	1.68	1.74	1.60	1.82	1.68	218299	179628
1-1/4	1-1/4	3/8	.67	.67	.38	1.730	1.660	1.730	1.660	.719	.675	2.153	2.153	1.015	.341	.341	.230	.130	1.33	1.19	1.33	1.19	1.51	1.37	218297	218298
1-1/4	1-1/4	1/2	.67	.67	.43	1.730	1.660	1.730	1.660	.897	.840	2.153	2.153	1.197	.341	.341	.249	.130	1.41	1.27	1.41	1.27	1.60	1.46	218296	187971
1-1/4	1-1/4	3/4	.67	.67	.50	1.730	1.660	1.730	1.660	1.107	1.050	2.153	2.153	1.458	.341	.341	.273	.130	1.52	1.38	1.52	1.38	1.69	1.55	218295	187114
1-1/4	1-1/4	1	.67	.67	.58	1.730	1.660	1.730	1.660	1.385	1.315	2.153	2.153	1.771	.341	.341	.302	.130	1.65	1.51	1.65	1.51	1.74	1.60	218294	179627
1-1/4	1-1/4	1-1/2	.67	.67	.70	1.730	1.660	1.730	1.660	1.970	1.900	2.153	2.153	2.427	.341	.341	.368	.140	1.96	1.80	1.96	1.80	1.90	1.74	218287	218293
1-1/2	3/4	1-1/2	.70	.50	.70	1.970	1.900	1.107	1.050	1.970	1.900	2.427	1.458	2.427	.368	.273	.368	.140	2.02	1.86	1.83	1.67	2.02	1.86	218623	218624
1-1/2	1	1	.70	.58	.58	1.970	1.900	1.385	1.315	1.385	1.315	2.427	1.771	1.771	.368	.302	.302	.140	1.73	1.57	1.58	1.42	1.88	1.72	189591	218622
1-1/2	1	1-1/2	.70	.58	.70	1.970	1.900	1.385	1.315	1.970	1.900	2.427	1.771	2.427	.368	.302	.368	.140	2.02	1.86	1.88	1.72	2.02	1.86	190957	218621
1-1/2	1-1/4	1	.70	.67	.58	1.970	1.900	1.730	1.660	1.385	1.315	2.427	2.153	1.771	.368	.341	.302	.140	1.73	1.57	1.66	1.50	1.88	1.72	218619	218620
1-1/2	1-1/4	1-1/4	.70	.67	.67	1.970	1.900	1.730	1.660	1.730	1.660	2.427	2.153	2.153	.368	.341	.341	.140	1.90	1.74	1.83	1.67	1.96	1.80	218617	218618
1-1/2	1-1/4	1-1/2	.70	.67	.70	1.970	1.900	1.730	1.660	1.970	1.900	2.427	2.153	2.427	.368	.341	.368	.140	2.02	1.86	1.96	1.80	2.02	1.86	192856	218616
1-1/2	1-1/2	1/2	.70	.70	.43	1.970	1.900	1.970	1.900	.897	.840	2.427	2.427	1.197	.368	.368	.249	.140	1.49	1.33	1.49	1.33	1.74	1.58	187371	218615
1-1/2	1-1/2	3/4	.70	.70	.50	1.970	1.900	1.970	1.900	1.107	1.050	2.427	2.427	1.458	.368	.368	.273	.140	1.60	1.44	1.60	1.44	1.83	1.67	218613	218614
1-1/2	1-1/2	1	.70	.70	.58	1.970	1.900	1.970	1.900	1.385	1.315	2.427	2.427	1.771	.368	.368	.302	.140	1.73	1.57	1.73	1.57	1.88	1.72	218610	218611
1-1/2	1-1/2	1-1/4	.70	.70	.67	1.970	1.900	1.970	1.900	1.730	1.660	2.427	2.427	2.153	.368	.368	.341	.140	1.90	1.74	1.90	1.74	1.96	1.80	192857	179630
1-1/2	1-1/2	2	.70	.70	.75	1.970	1.900	1.970	1.900	2.445	2.375	2.427	2.427	2.963	.368	.368	.422	.156	2.24	2.08	2.24	2.08	2.10	1.94	218608	218609
2	3/4	2	.75	.50	.75	2.445	2.375	1.107	1.050	2.445	2.375	2.963	1.458	2.963	.422	.273	.422	.156	2.33	2.17	2.05	1.89	2.33	2.17	218648	179634
2	1	1-1/2	.75	.58	.70	2.445	2.375	1.385	1.315	1.970	1.900	2.963	1.771	2.427	.422	.302	.368	.156	2.10	1.94	1.88	1.72	2.24	2.08	218646	218647
2	1	2	.75	.58	.75	2.445	2.375	1.385	1.315	2.445	2.375	2.963	1.771	2.963	.422	.302	.422	.156	2.33	2.17	2.10	1.94	2.33	2.17	218645	186554
2	1-1/4	1-1/2	.75	.67	.70	2.445	2.375	1.730	1.660	1.970	1.900	2.963	2.153	2.427	.422	.341	.368	.156	2.10	1.94	1.96	1.80	2.24	2.08	218641	218644
2	1-1/4	2	.75	.67	.75	2.445	2.375	1.730	1.660	2.445	2.375	2.963	2.153	2.963	.422	.341	.422	.156	2.33	2.17	2.18	2.02	2.33	2.17	218640	192665
2	1-1/2	1-1/4	.75	.70	.67	2.445	2.375	1.970	1.900	1.730	1.660	2.963	2.427	2.153	.422	.368	.341	.156	1.98	1.82	1.90	1.74	2.18	2.02	218638	218639
2	1-1/2	1-1/2	.75	.70	.70	2.445	2.375	1.970	1.900	1.970	1.900	2.963	2.427	2.427	.422	.368	.368	.156	2.10	1.94	2.02	1.86	2.24	2.08	218636	218637
2	1-1/2	2	.75	.70	.75	2.445	2.375	1.970	1.900	2.445	2.375	2.963	2.427	2.963	.422	.368	.422	.156	2.33	2.17	2.24	2.08	2.33	2.17	218634	218635
2	2	1/2	.75	.75	.43	2.445	2.375	2.445	2.375	.897	.840	2.963	2.963	1.197	.422	.422	.249	.156	1.57	1.41	1.57	1.41	1.96	1.80	218633	188425
2	2	3/4	.75	.75	.50	2.445	2.375	2.445	2.375	1.107	1.050	2.963	2.963	1.458	.422	.422	.273	.156	1.68	1.52	1.68	1.52	2.05	1.89	218632	179633
2	2	1	.75	.75	.58	2.445	2.375	2.445	2.375	1.385	1.315	2.963	2.963	1.771	.422	.422	.302	.156	1.81	1.65	1.81	1.65	2.10	1.94	218631	179632
2	2	1-1/4	.75	.75	.67	2.445	2.375	2.445	2.375	1.730	1.660	2.963	2.963	2.153	.422	.422	.341	.156	1.98	1.82	1.98	1.82	2.18	2.02	218629	218630
2	2	1-1/2	.75	.75	.70	2.445	2.375	2.445	2.375	1.970	1.900	2.963	2.963	2.427	.422	.422	.368	.156	2.10	1.94	2.10	1.94	2.24	2.08	218627	218628

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