

TECHNICAL INFORMATION



Logo marking:



MECH

#300 BLACK & GALVANIZED MALLEABLE IRON EXTRA-HEAVY PIPE FITTINGS

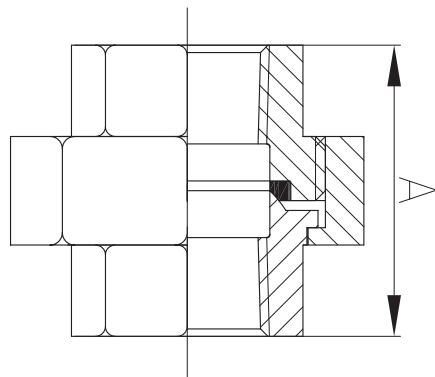
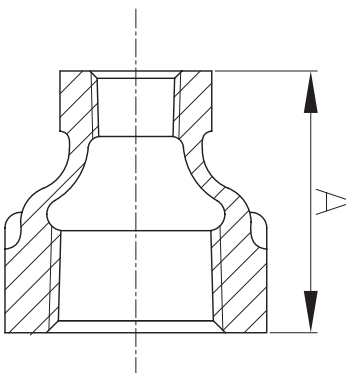
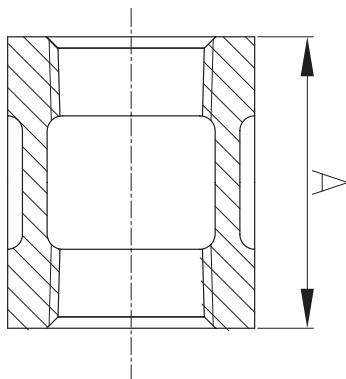




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Materials: ASTM A197 / A197M
Dimensions: Fittings ASME B16.3, B16.14
Unions B16.39
Threads: ASME B1.20.1 - NPT

CLASS: #300 EXTRA-HEAVY

COUPLINGS				
BLACK	GALV.	SIZE	A (inch)	Lb
20002	-	1/4	1.38	0.16
20003	-	3/8	1.63	0.27
20004	20604	1/2	1.88	0.43
20005	20605	3/4	2.13	0.65
20006	20606	1	2.38	0.97
20007	20607	1 1/4	2.88	1.61
20008	20608	1 1/2	2.88	1.93
20009	20609	2	3.63	3.18
20010	-	2 1/2	4.13	5.07
20011	-	3	4.13	6.81

REDUCING COUPLINGS				
BLACK	GALV.	SIZE	A (inch)	Lb
20016	-	3/8 x 1/4	1.44	0.20
20019	-	1/2 x 3/8	1.69	0.31
20020	-	1/2 x 1/4	1.69	0.28
20023	20623	3/4 x 1/2	1.75	0.49
20024	-	3/4 x 3/8	1.75	0.42
20027	20627	1 x 3/4	2.00	0.76
20028	20628	1 x 1/2	2.00	0.67
20031	20631	1 1/4 x 1	2.38	1.16
20032	-	1 1/4 x 3/4	2.38	1.10
20033	-	1 1/4 x 1/2	2.38	0.96
20035	20635	1 1/2 x 1 1/4	2.69	1.64
20036	20636	1 1/2 x 1	2.69	1.47
20037	-	1 1/2 x 3/4	2.69	1.38
20038	-	1 1/2 x 1/2	2.69	1.28
20040	20640	2 x 1 1/2	3.19	2.58
20041	20641	2 x 1 1/4	3.19	2.33
20042	20642	2 x 1	3.19	2.27
20047	-	2 1/2 x 1 1/2	3.69	3.65
20052	-	3 x 2	4.06	5.63

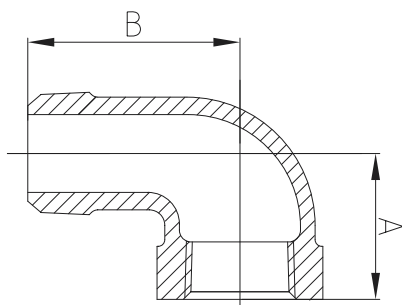
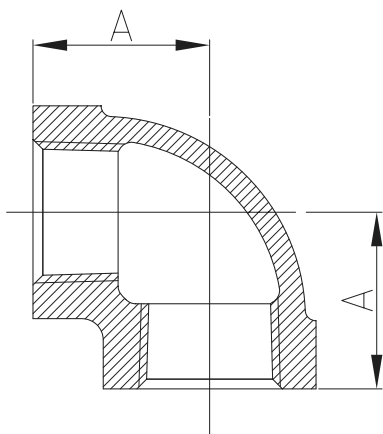
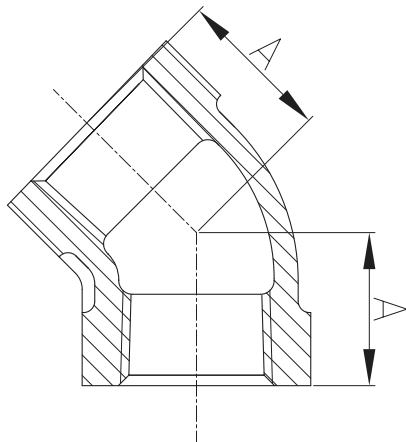
UNIONS (BRASS TO IRON)				
BLACK	GALV.	SIZE	A (inch)	Lb
20102	20122	1/4	1.56	0.30
20103	20123	3/8	1.71	0.47
20104	20124	1/2	1.81	0.53
20105	20125	3/4	2.13	0.84
20106	20126	1	2.30	1.13
20107	20127	1 1/4	2.66	1.81
20108	20128	1 1/2	2.85	2.54
20109	20129	2	3.23	3.66
20110	20130	2 1/2	3.33	5.14
20111	20131	3	4.09	8.14



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45° ELBOWS				
BLACK	GALV.	SIZE	A (inch)	Lb
20202	-	1/4	0.79	0.20
20203	-	3/8	0.88	0.25
20204	20224	1/2	1.00	0.40
20205	20225	3/4	1.13	0.62
20206	20226	1	1.31	1.00
20207	20227	1 1/4	1.50	1.52
20208	20228	1 1/2	1.69	2.18
20209	20229	2	2.00	3.30
20210	-	2 1/2	2.25	5.26
20211	-	3	2.50	7.29

90° ELBOWS				
BLACK	GALV.	SIZE	A (inch)	Lb
20302	20322	1/4	0.94	0.19
20303	20323	3/8	1.06	0.29
20304	20324	1/2	1.22	0.45
20305	20325	3/4	1.40	0.67
20306	20326	1	1.63	1.02
20307	20327	1 1/4	1.94	1.75
20308	20328	1 1/2	2.13	2.31
20309	20329	2	2.50	3.64
20310	-	2 1/2	2.94	5.52
20311	-	3	3.38	8.48

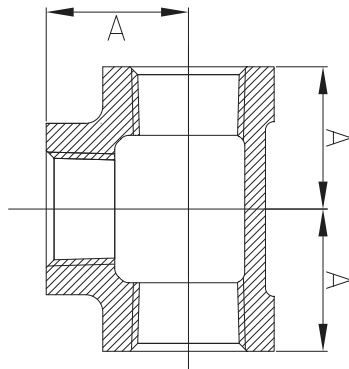
(M x F) STREET 90° ELBOWS					
BLACK	GALV.	SIZE	A (inch)	B (inch)	Lb
20372	-	1/4	0.94	1.44	0.15
20373	-	3/8	1.06	1.63	0.23
20374	-	1/2	1.25	2.00	0.37
20375	-	3/4	1.44	2.19	0.59
20376	-	1	1.63	2.56	0.94
20377	-	1 1/4	1.94	2.88	1.52
20378	-	1 1/2	2.13	3.13	2.07
20379	-	2	2.50	3.69	3.35



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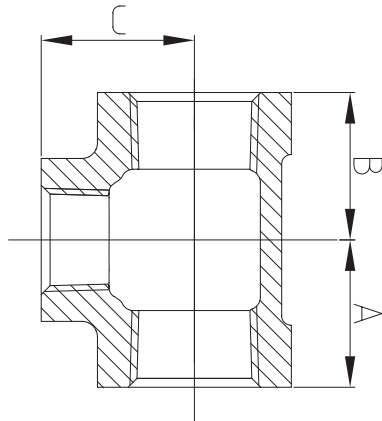
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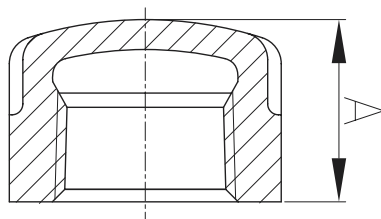
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 Unions B16.39
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TEES				
BLACK	GALV.	SIZE	A (inch)	Lb
20402	-	1/4	0.94	0.30
20403	-	3/8	1.06	0.38
20404	20704	1/2	1.25	0.66
20405	20705	3/4	1.40	1.05
20406	20706	1	1.63	1.48
20407	20707	1 1/4	1.94	2.31
20408	20708	1 1/2	2.13	3.30
20409	20709	2	2.50	4.89
20410	-	2 1/2	2.94	7.96
20411	-	3	3.38	11.86



REDUCING TEES (ON BRANCH)						
BLACK	GALV.	SIZE	A (inch)	B (inch)	C (inch)	Lb
20429	20729	3/4 x 3/4 x 1/2	1.30	1.30	1.38	0.83
20438	20738	1 x 1 x 3/4	1.50	1.50	1.56	1.26
20440	20740	1 x 1 x 1/2	1.44	1.44	1.50	1.17
20453	-	1 1/4 x 1 1/4 x 1	1.75	1.75	1.81	2.03
20454	20754	1 1/4 x 3/4	1.63	1.63	1.75	1.85
20455	-	1 1/4 x 1 1/4 x 1/2	1.50	1.50	1.69	1.68
20471	-	1 1/2 x 1 1/2 x 1 1/4	2.00	2.00	2.06	2.76
20472	20772	1 1/2 x 1 1/2 x 1	1.81	1.81	2.00	2.49
20473	20773	1 1/2 x 1 1/2 x 3/4	1.69	1.69	1.87	2.38
20474	-	1 1/2 x 1 1/2 x 1/2	1.63	1.63	1.81	2.14
20494	20794	2 x 2 x 1 1/2	2.25	2.25	2.38	4.22
20495	-	2 x 2 x 1 1/4	2.13	2.13	2.31	4.07
20496	-	2 x 2 x 1	2.00	2.00	2.25	3.79
20497	-	2 x 2 x 3/4	1.81	1.81	2.13	3.44
20498	-	2 x 2 x 1/2	1.75	1.75	2.06	3.17



CAPS				
BLACK	GALV.	SIZE	A (inch)	Lb
20504	20524	1/2	0.98	0.24
20505	20525	3/4	1.08	0.37
20506	20526	1	1.26	0.57
20507	20527	1 1/4	1.38	0.86
20508	20528	1 1/2	1.43	1.08
20509	20529	2	1.68	1.74
20510	-	2 1/2	2.06	2.97
20511	-	3	2.17	3.98



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Certifications:

FM: * Note below *
 UL: ASME B16.14 & ASME B16.3
 IAPMO: Drinking Water NSF/ANSI/CAN 61
 Lead Content NSF/ANSI/CAN 372

VERITAS: ISO 9001
 ISO 14001

Note: Most but not all products represented in this document are FM Approved.
 For listing/approval details and limitations, please contact your
 Sales Representative or visit <https://www.approvalguide.com>

Pressure/Temperature Rating

Temperature		Class #300 psig		
		Sizes		
°F	°C	1/4~1	1 1/4~2	2 1/2~3
-20~150	-29~66	2 000	1 500	1 000
200	93	1 785	1 350	910
250 ¹	121 ¹	1 575	1 200	825
300	149	1 360	1 050	735
350 ¹	177 ¹	1 150	900	650
400	204	935	750	560
450	232	725	600	475
500	260	510	450	385
550	288	300	300	300

¹ Permissible for service temperature up to 366 °F (186 °C), reflecting the temperature of saturated steam at 150 psig.

Please note that although products are designed using the ASME B16.3 standard which have a pressure rating up to 2 000 psi, FM approval is only for up to 175 psi and there are no temperature range requirements specified by the FM1920 standard.