

TECHNICAL INFORMATION

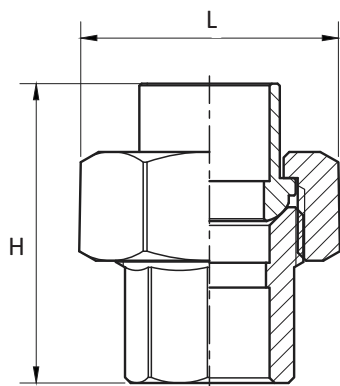


**SOLDER FITTINGS
PRESSURE TYPE**

**LEAD FREE
CAST COPPER ALLOY**

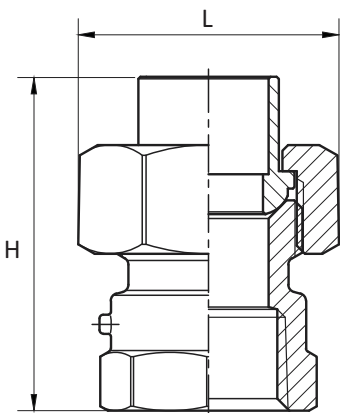


COPPER ALLOY CAST PRESSURE FITTINGS



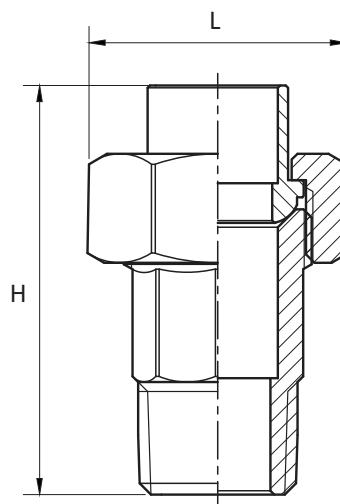
C x C CAST UNIONS				
BMI#	SIZE	L	H	Lb
25104	1/2	1.35	1.57	0.220
25105	3/4	1.64	2.02	0.342
25106	1	1.96	2.39	0.485
25107	1 1/4	2.20	2.59	0.738
25108	1 1/2	2.54	2.98	1.076
25109	2	3.22	3.31	1.759
25110	2 1/2	3.74	3.84	2.911
25111	3	4.22	4.31	4.020

In inch



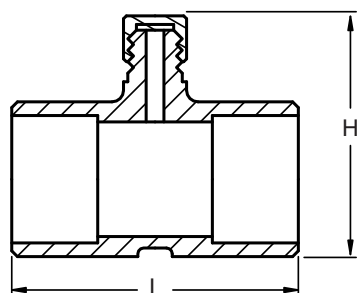
C x FIPS CAST UNIONS				
BMI#	SIZE	L	H	Lb
25124	1/2	1.35	1.75	0.271
25125	3/4	1.64	2.08	0.392
25126	1	1.96	2.50	0.608
25127	1 1/4	2.20	2.81	0.930
25128	1 1/2	2.54	3.22	1.364
25129	2	3.22	3.40	2.076

In inch



C x MIPS CAST UNIONS				
BMI#	SIZE	L	H	Lb
25134	1/2	1.35	2.15	0.264
25135	3/4	1.64	2.67	0.412
25136	1	1.96	3.07	0.606
25137	1 1/4	2.20	3.48	0.954
25138	1 1/2	2.54	3.97	1.380
25139	2	3.22	4.15	2.085

In inch

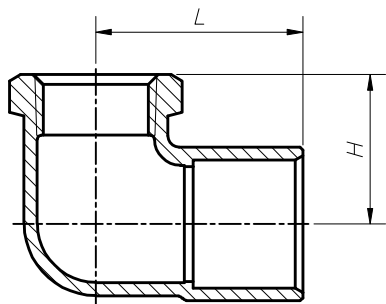


C x C CAST DRAIN COUPLINGS				
BMI#	SIZE	L	H	Lb
25084	1/2	1.27	1.15	0.066

In inch

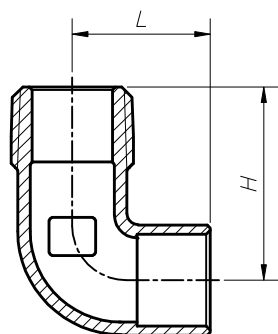


COPPER ALLOY CAST PRESSURE FITTINGS



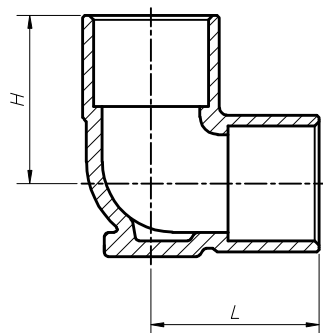
C x FIPS CAST 90° ELBOWS				
BMI#	SIZE	L	H	Lb
25384	1/2	1.08	0.89	0.172
25385	3/4	1.40	1.08	0.253
25386	1	1.64	1.55	0.421
25390	3/4 x 1/2	1.30	0.91	0.238
25391	1/2 x 3/4	1.30	0.94	0.209
25392	1/2 x 3/8	0.92	0.77	0.106

In inch



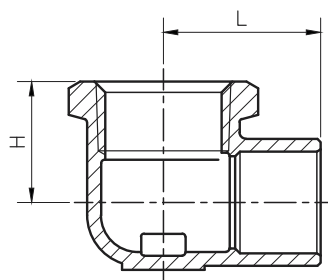
C x MIPS CAST 90° ELBOWS				
BMI#	SIZE	L	H	Lb
25364	1/2	0.94	1.32	0.134
25365	3/4	1.20	1.48	0.212
25366	1	1.64	1.73	0.353
25367	3/4 x 1/2	1.54	1.30	0.154

In inch



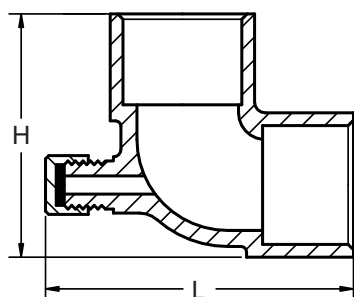
C x C CAST 90° ELBOWS DROPEAR				
BMI#	SIZE	L	H	Lb
25360	1/2	0.92	0.92	0.128
25361	3/4	1.26	1.26	0.216

In inch



C x FIPS CAST 90° ELBOWS DROPEAR				
BMI#	SIZE	L	H	Lb
25399	1/2	0.97	0.75	0.163
25375	3/4	1.28	0.98	0.256
25377	1	1.62	1.14	0.458
25376	1/2 x 3/8	1.09	0.80	0.176

In inch

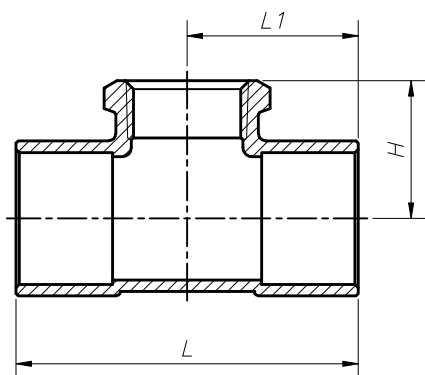


C x C CAST 90° VENT ELBOWS				
BMI#	SIZE	L	H	Lb
25583	1/2	1.89	1.28	0.110
25584	3/4	2.27	1.76	0.203

In inch

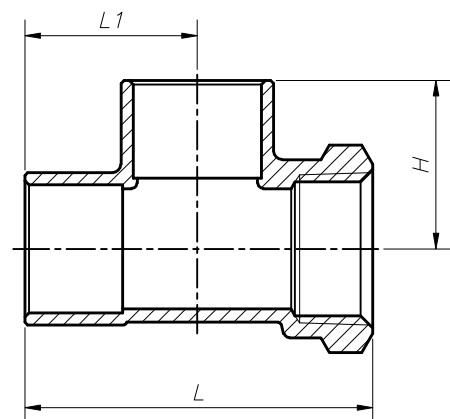


COPPER ALLOY CAST PRESSURE FITTINGS



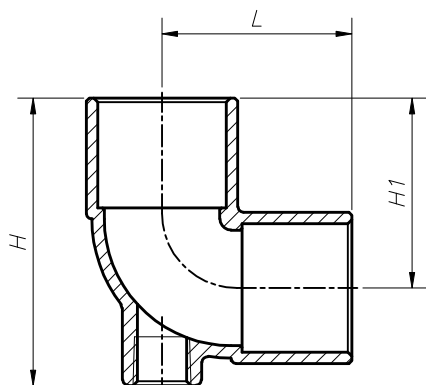
C x C x FIPS CAST TEES					
BMI#	SIZE	L	H	L1	Lb
25591	1/2	2.09	0.89	1.04	0.176
25592	3/4	2.76	0.96	1.38	0.276
25599	1/2 x 1/2 x 3/4	2.37	0.81	1.25	0.287
25593	3/4 x 3/4 x 1/2	2.64	0.94	1.32	0.154
25597	1 x 1 x 3/4	2.93	1.18	1.46	0.397
25577	1 x 1 x 1/2	2.91	1.15	1.45	0.353
25573	1 1/4 x 1 1/4 x 1/2	3.11	1.21	1.56	1.232
25574	1 1/4 x 1 1/4 x 3/4	3.31	1.36	1.65	1.258
25576	1 1/2 x 1 1/2 x 3/4	3.56	1.44	1.78	1.490

In inch



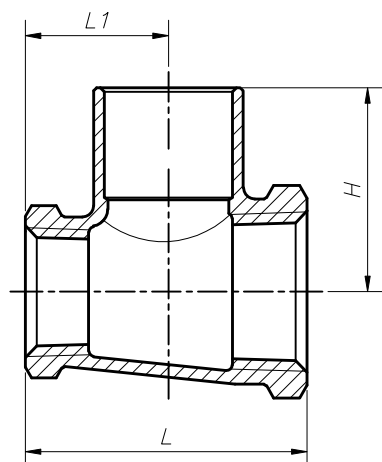
C x FIPS x C CAST TEES					
BMI#	SIZE	L	H	L1	Lb
25595	1/2	1.77	0.98	0.89	0.154
25596	3/4	2.38	1.15	1.18	0.331
25598	3/4 x 1/2 x 3/4	2.22	1.26	1.30	0.264
25594	1 x 3/4 x 1	1.65	1.57	1.66	0.397
25578	1 x 1/2 x 1	2.76	1.67	1.66	0.353

In inch



C x FIPS x C CAST BASEBOARD TEES					
BMI#	SIZE	L	H	H1	Lb
25579	1/2 x 1/8 x 1/2	0.94	1.52	0.94	0.128
25580	3/4 x 1/8 x 3/4	1.30	1.97	1.30	0.203
25581	1 x 1/8 x 1	1.63	2.40	1.63	0.368
25582	1 1/4 x 1/8 x 1 1/4	1.81	2.59	1.81	0.423

In inch

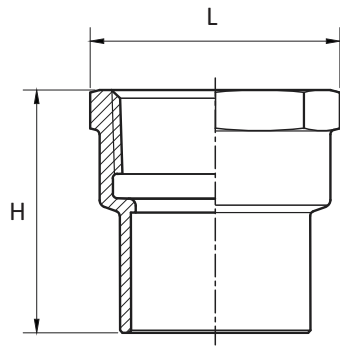


FIPS x FIPS x C CAST TEES					
BMI#	SIZE	L	H	L	Lb
25586	3/4	1.75	1.43	0.88	0.298
25587	3/4 x 3/4 x 1/2	1.75	1.21	0.88	0.287
25588	3/4 x 1/2 x 3/4	1.93	1.40	0.98	0.276
25589	3/4 x 1/2 x 1/2	1.71	1.17	0.83	0.276

In inch

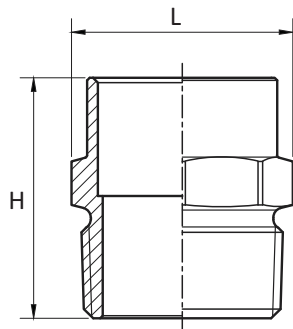


COPPER ALLOY CAST PRESSURE FITTINGS



C x FIPS CAST ADAPTERS				
BMI#	SIZE	L	H	Lb
25704	1/2	1.16	1.14	0.110
25705	3/4	1.44	1.37	0.176
25706	1	1.65	1.77	0.298
25707	1 1/4	2.05	1.99	0.463
25708	1 1/2	2.34	2.14	0.588
25709	2	2.85	2.44	0.926

In inch

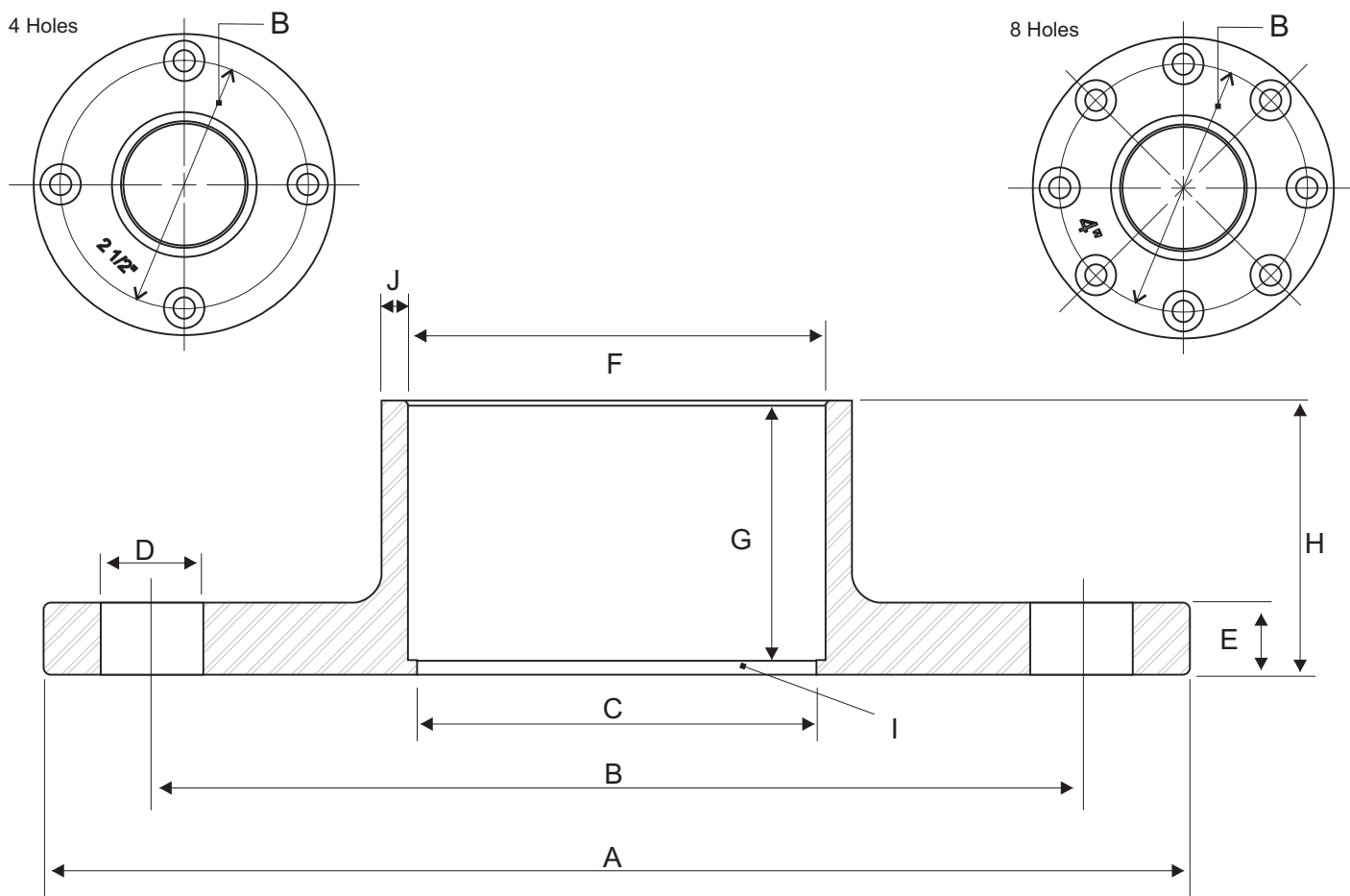


C x MIPS CAST ADAPTERS				
BMI#	SIZE	L	H	Lb
25804	1/2	0.98	1.15	0.088
25805	3/4	1.20	1.42	0.132
25806	1	1.81	1.81	0.220
25807	1 1/4	1.81	1.97	0.403
25808	1 1/2	2.03	2.13	0.441
25809	2	2.57	2.50	0.734

In inch



COPPER ALLOY CAST PRESSURE FITTINGS



#125 Bronze Companion Flanges

Bronze Alloy: Lead Free = C89844

Lead Free Bronze														
	BMI#	Size	Holes	A	B	C	D	E	F Min. - Max.	G	H	I	J	Lb
	25606	1"	4	4.25	3.12	1.02	0.62	0.19	1.130~1.134	0.91	1.01	0.15	0.07	1.01
	25607	1 1/4"	4	4.63	3.50	1.26	0.62	0.19	1.378~1.382	0.97	1.20	0.15	0.07	1.13
	25608	1 1/2"	4	5.00	3.88	1.50	0.62	0.25	1.630~1.634	1.09	1.26	0.14	0.08	1.60
	25609	2"	4	6.00	4.75	1.90	0.75	0.31	2.130~2.134	1.34	1.48	0.15	0.09	2.62
	25610	2 1/2"	4	7.00	5.50	2.46	0.75	0.31	2.630~2.634	1.47	1.66	0.15	0.10	3.80
	25611	3"	4	7.50	6.00	2.94	0.75	0.38	3.130~3.134	1.66	1.92	0.20	0.11	4.34
	25612	4"	8	9.00	7.50	3.90	0.75	0.38	4.130~4.134	2.16	2.26	0.18	0.13	7.11

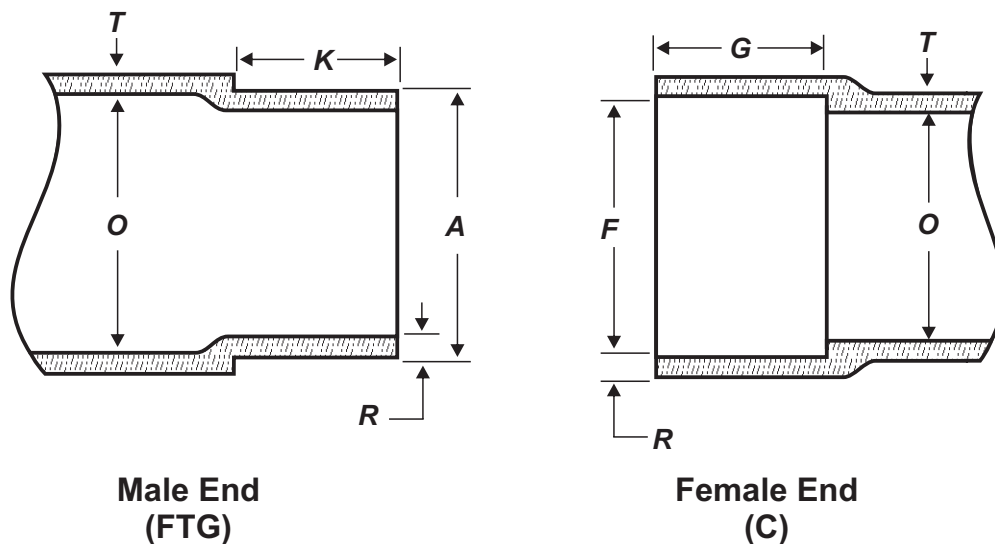
In inch

#150 Bronze Companion Flanges

Lead Free Bronze														
	BMI#	Size	Holes	A	B	C	D	E	F Min. - Max.	G	H	I	J	Lb
	25638	1 1/2"	4	5.00	3.88	1.50	0.62	0.44	1.630~1.634	1.09	1.46	0.09	0.08	2.46
	25639	2"	4	6.00	4.75	1.90	0.75	0.50	2.130~2.134	1.34	1.42	0.09	0.09	4.05
	25640	2 1/2"	4	7.00	5.50	2.46	0.75	0.56	2.630~2.634	1.47	1.66	0.12	0.10	5.88
	25641	3"	4	7.50	6.00	2.94	0.75	0.62	3.130~3.134	1.66	1.79	0.12	0.11	7.35
	25642	4"	8	9.00	7.50	3.90	0.75	0.69	4.130~4.134	2.16	2.31	0.12	0.13	10.84

In inch

COPPER ALLOY CAST PRESSURE FITTINGS



Standard Water Tube Size	Male End			Female End			Wall Thickness		Inside Diam. of Fitting 'O'
	Outside Diameter 'A'		Length 'K'	Inside Diameter 'F'		Depth 'G'	Body	Joint	
	Min.	Max.		Min.	Max.		'T'	'R'	
1/4	0.373	0.376	0.380	0.377	0.381	0.310	0.080	0.050	0.310
3/8	0.497	0.501	0.440	0.502	0.506	0.380	0.090	0.050	0.430
1/2	0.622	0.626	0.560	0.627	0.631	0.500	0.090	0.050	0.540
3/4	0.872	0.876	0.810	0.877	0.881	0.750	0.100	0.060	0.780
1	1.122	1.127	0.910	1.128	1.132	0.910	0.110	0.070	1.020
1 1/4	1.372	1.377	1.030	1.378	1.383	0.970	0.120	0.070	1.260
1 1/2	1.621	1.627	1.160	1.628	1.633	1.090	0.130	0.080	1.500
2	2.121	2.127	1.410	2.128	2.133	1.340	0.150	0.090	1.980
2 1/2	2.621	2.627	1.530	2.628	2.633	1.470	0.170	0.100	2.460
3	3.121	3.127	1.720	3.128	3.133	1.660	0.190	0.110	2.940
4	4.121	4.127	2.220	4.128	4.133	2.160	0.220	0.130	3.900
6	6.121	6.127	3.220	6.128	6.133	3.090	0.340	0.200	5.840

In inch

Dimensions in mm

Complies with:

Materials: ASME/ASTM B584
Alloy C89844 (Lead Free)

Dimensions: ASME/ASTM B16.18
MSS SP-106 (Flanges)

Threads: ASME/ASTM B1.20.1

Drinking water: ANSI/NSF 61

Lead content: ANSI/NSF 372

TEMPERATURE - PRESSURE RATINGS (psi) OF SOLDER JOINTS					
ALLOYS USED FOR JOINTS	SERVICE TEMPERATURE °F / °C	STANDARD TUBE SIZE, TYPES K, L AND M			
		WATER AND NON-CORROSIVE LIQUIDS & GASES			
		1/4"~1"	1 1/4"~2"	2 1/2"~4"	5"~8"
50% Tin / 50% Lead Solder Joints (Not to be used in potable water systems)	100 / 38	200	175	150	135
	150 / 66	150	125	100	90
	200 / 93	100	90	75	70
	250 / 121	85	75	50	45
95% Tin / 5% Antimony Solder	100 / 38	1090	850	705	660
	150 / 66	625	485	405	375
	200 / 93	505	395	325	305
	250 / 121	270	210	175	165
Alloy E Solder	100 / 38	710	555	460	430
	150 / 66	475	370	305	285
	200 / 93	375	290	240	225
	250 / 121	320	250	205	195
Alloy HB Solder	100 / 38	1035	805	670	625
	150 / 66	710	555	460	430
	200 / 93	440	345	285	265
	250 / 121	430	335	275	260

Note: Ratings are those given in ASME B 16.22 "Wrought Copper and Copper Alloy Solder Joint Pressure Fittings." (a) Solder alloys are covered by ASTM Standard Specification B32. The Safe Drinking Water Act Amendment of 1986 prohibits the use of any solder having a lead content in excess of 0.2% for potable water systems.

