

SM

Copper Fitting For ASTM B280

Burst Pressure For wrought (ASME B16.22) and CAST (ASME B16.18)

Standard For ASTM B88	Standard For ASTM B280	Burst Pressure
1/4	3/8	3640
3/8	1/2	3100
1/2	5/8	2880
5/8	3/4	2520
3/4	7/8	2320
1	1 1/8	1960
1 1/4	1 3/8	1740
1 1/2	1 5/8	1620
2	2 1/8	1440
2 1/2	2 5/8	1340
3	3 1/8	1260
3 1/2	3 5/8	1200
4	4 1/8	1160
5	5 1/8	1060
6	6 1/8	1000



Coupling - Roller Stop



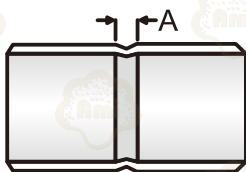
Fitting Reducer



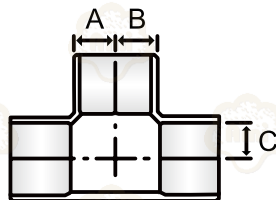
Tee



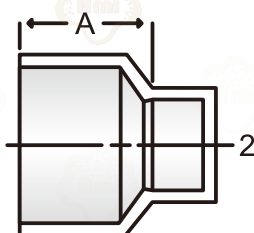
Elbow 90° - Short Radius



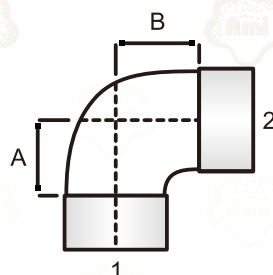
Coupling - Roller Stop



Tee



Fitting Reducer



Elbow 90° - Short Radius

Rated Internal Working Pressure

Standard For ASTM B88	Standard For ASTM B280	-20 to 100°F	150°F	200°F	250°F	300°F	350°F	400°F
1/4	3/8	910	770	725	725	710	605	455
3/8	1/2	775	660	620	620	610	515	385
1/2	5/8	720	610	575	575	565	480	360
5/8	3/4	630	535	505	505	490	420	315
3/4	7/8	580	490	465	465	455	385	290
1	1 1/8	490	420	395	395	385	325	245
1 1/4	1 3/8	435	370	350	350	340	290	215
1 1/2	1 5/8	405	345	325	325	315	270	200
2	2 1/8	360	305	290	290	280	240	180
2 1/2	2 5/8	335	285	265	265	260	220	165
3	3 1/8	315	265	250	250	245	210	155
3 1/2	3 5/8	300	255	240	240	235	200	150
4	4 1/8	290	245	230	230	225	195	145
5	5 1/8	265	225	215	215	210	175	130
6	6 1/8	250	210	200	200	195	165	125

The fitting pressure applies to the largest opening of the fitting.

Fittings manufactured to the Standard shall have an ambient bursting strength of at least four times the 100° F rated internal working pressure.

Fittings Rating (rated internal working pressures for annealed temper ASTM B 88 type L copper water tube are calculated as follows :

$$P = (2 \cdot S \cdot t) / (D - 0.8 \cdot t)$$

where:

P = rated working pressure at temperature (psi)

S = allowable stress at temperature (psi) from ASME B31.1 or ASME

t = minimum wall thickness (in) from annealed temper ASTM B 88 for

D = maximum outside diameter (in) from annealed temper ASTM B 88

S values are found in ASME B 31



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