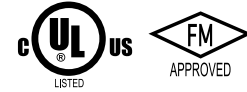


STANDARD GROOVED FITTINGS

STYLES 100, 101, 102, 103, 110 & 150

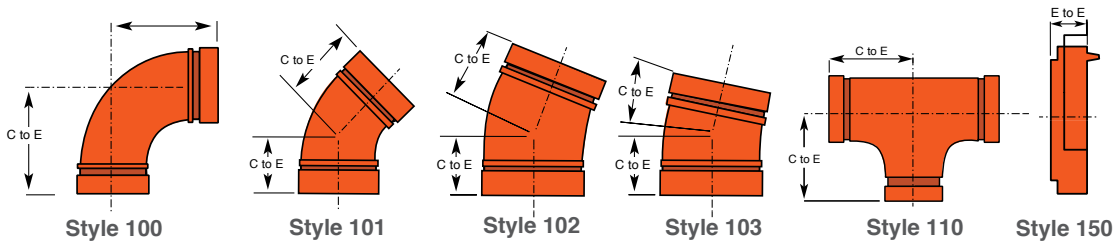


UL Listed Under File No. EX15591

- All fittings are full flow design
- Made of durable, high-strength ductile iron conforming to ASTM A536; every lot is metallurgically tested for compliance
- Available with hot dipped galvanized coating
- Suitable for HVAC, plumbing, & fire protection systems

FLOW DATA									
Frictional Resistance (Expressed as equivalent Straight Pipe in Ft.)									
Nominal Size (In.)	Elbow		Tee		Nominal Size (In.)	Elbow		Tee	
	90° Elbow	45° Elbow	Branch	Run		90° Elbow	45° Elbow	Branch	Run
1¼	2,3	1,2	5,8	2,3	5	8,4	4,2	21,0	8,4
1½	2,7	1,3	6,7	2,7	6	10,1	5,1	25,3	10,1
2	3,4	1,7	8,6	3,4	8	13,3	6,7	33,3	13,3
2½	4,1	2,1	10,3	4,1	10	16,7	8,4	41,8	16,7
3	5,1	2,6	12,8	5,2					
4	6,7	3,4	16,8	6,7					

Flow data is based upon the pressure drop of Sch. 40 pipe.



Pipe		90° Elbow No. 100		45° Elbow No. 101		22½° Elbow No. 102		11½° Elbow No. 103		Equal Tee No. 110		End Cap No. 150	
Nominal Size (In.)	Actual Size (In.)	C to E (In.)	Approx. Wgt. Ea. (lb.)	C to E (In.)	Approx. Wgt. Ea. (lb.)	C to E (In.)	Approx. Wgt. Ea. (lb.)	C to E (In.)	Approx. Wgt. Ea. (lb.)	C to E (In.)	Approx. Wgt. Ea. (lb.)	E to E (In.)	Approx. Wgt. Ea. (lb.)
1¼	1.66	2.24	0.93	1.73	0.70	1.732	.80	1.38	0.55	2.755	1.52	0.99	.33
1½	1.9	2.755	1.17	1.73	0.78	1.732	.84	1.38	0.63	2.755	1.74	0.99	.44
2	2.375	3.257	1.77	2	1.20	2	1.14	1.38	0.82	3.267	2.5	0.99	.62
2½	2.875	3.74	2.76	2.24	1.63	2	1.50	1.5	1.22	3.74	3.73	0.99	.86
3	3.5	4.251	3.44	2.52	2.38	2.24	2.53	1.5	1.62	4.251	6.24	0.99	1.01
4	4.5	5.0	5.32	3	3.84	2.87	3.91	1.89	2.63	5	8.70	0.99	1.42
5	5.563	5.51	8.0	3.28	5.74	2.87	5.10	2	3.90	5.511	12.44	0.99	2.80
6	6.625	6.496	14.31	3.51	8.11	3.11	7.16	2	4.78	6.496	18.21	0.99	2.0
8	8.625	8.755	21.63	4.25	14.27	3.86	11.88	2	7.10	7.755	33.25	1.181	7.31
10	10.75	9.015	37.04	4.76	22.00	4.37	30.0	2.13	14.5	9.015	46.35	1.259	9.33
12	12.75	10.0	57.25	31.50	10.0	—	—	—	—	10.0	59.50	1.26	13.25

NOTES: Allowable pipe end separation is for cut groove pipe for roll groove, figures will be one-half of the values listed at time of initial pressurization. □ - Bolts and Nuts are galvanized. * - Maximum pressure including surges and maximum end loads from all internal and external forces, to which a joint could be subject under normal working conditions. This rating provides a nominal safety factor of 1.5 times working pressure based on standard weight steel pipe. Maximum working pressure may be subjected to a one time field test of 1.5 times the figures indicated. Refer to installations and groove specifications when assembling any grooved product.