

GROOVED FITTINGS - SHORT PATTERN

STYLES F105, F106, F107, F135 & F155

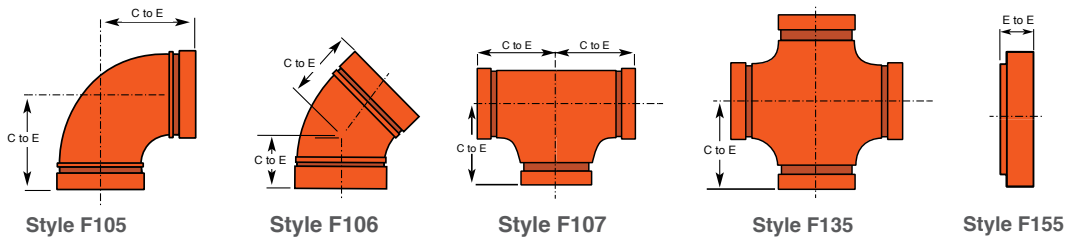


UL Listed Under File No. EX15591

- Sized to improve flow
- Designed to Fire Protection Industry standards for short patterned fittings
- Rated for 300 psi
- Made of durable, high-strength ductile iron conforming to ASTM A536; every lot is metallurgically tested for compliance
- Available with hot dipped galvanized coating

| FLOW DATA Frictional Resistance (Expressed as equivalent Straight Pipe in Ft.) | | | | | | | | |
|---|-----------|------|-----------|------|--------|------|------|------|
| Nominal Size (In) | 90° Elbow | | 45° Elbow | | Tee | | | |
| | STD | F105 | STD | F106 | Branch | | Run | |
| | | | | | STD | F107 | STD | F107 |
| 1 | 1.7 | 1.4 | 0.9 | 0.9 | 4.4 | 4.0 | 1.7 | 1.4 |
| 1½ | 2.3 | 1.8 | 1.2 | 1.0 | 5.8 | 4.2 | 2.3 | 1.8 |
| 1½ | 2.7 | 2.5 | 1.3 | 1.3 | 6.7 | 5.5 | 2.7 | 2.5 |
| 2 | 3.4 | 3.2 | 1.7 | 1.6 | 8.6 | 8.2 | 3.4 | 2.5 |
| 2½ | 4.1 | 3.9 | 2.1 | 2.0 | 10.3 | 10.1 | 4.1 | 3.9 |
| 3 | 5.1 | 4.8 | 2.6 | 2.4 | 12.8 | 12.5 | 5.1 | 4.8 |
| 4 | 6.7 | 6.5 | 3.4 | 3.2 | 16.8 | 16.0 | 6.7 | 6.5 |
| 5 | 8.4 | 8.4 | 4.2 | 4.0 | 21.0 | 20.5 | 8.4 | 8.2 |
| 6 | 10.1 | 10.0 | 5.1 | 4.8 | 25.3 | 24.0 | 10.1 | 9.6 |
| 8 | 13.3 | 13.0 | 6.7 | 6.5 | 33.3 | 33.0 | 13.3 | 13.0 |

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



| Pipe | | 90° Elbow No. F105 | | 45° Elbow No. F106 | | Equal Tee No. F107 | | Cross No. F135 | | End Cap No. F155 | |
|--------------|-------------------|--------------------|------------------------|--------------------|------------------------|--------------------|------------------------|----------------|------------------------|------------------|------------------------|
| Nominal Size | 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.) | E to E (In.) | Approx. Wgt. Ea. (lb.) |
| 1 | 1.66 | 2.362 | .80 | 1.73 | .70 | 2.362 | 1.10 | 2.75 | 2.1 | 0.99 | .33 |
| 1½ | 1.9 | 2.362 | 1.01 | 1.73 | .78 | 2.362 | 1.34 | 2.75 | 2.5 | 0.99 | 0.44 |
| 2 | 2.375 | 2.755 | 1.24 | 2.00 | 1.20 | 2.755 | 1.98 | 2.75 | 2.49 | 0.99 | 0.61 |
| 2½ | 2.875 | 2.992 | 2.03 | 2.24 | 1.63 | 2.992 | 2.82 | 2.99 | 3.19 | 0.99 | 0.85 |
| 3 | 3.5 | 3.368 | 2.53 | 2.52 | 2.38 | 3.386 | 3.90 | 3.38 | 5.09 | 0.99 | 1.01 |
| 4 | 4.5 | 3.996 | 3.74 | 3.00 | 3.84 | 3.996 | 5.72 | 3.99 | 7.22 | 0.99 | 1.42 |
| 5 | 5.563 | 4.803 | 7.20 | 3.28 | 5.74 | 4.803 | 9.52 | 4.80 | 7.23 | 0.99 | 2.80 |
| 6 | 6.625 | 5.5 | 9.06 | 3.51 | 8.11 | 5.5 | 14.13 | 5.5 | 15.97 | 0.99 | 4.40 |
| 8 | 8.625 | 6.889 | 20.52 | 4.25 | 14.27 | 6.889 | 27.07 | 6.88 | 28.66 | 1.181 | 9.30 |

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.