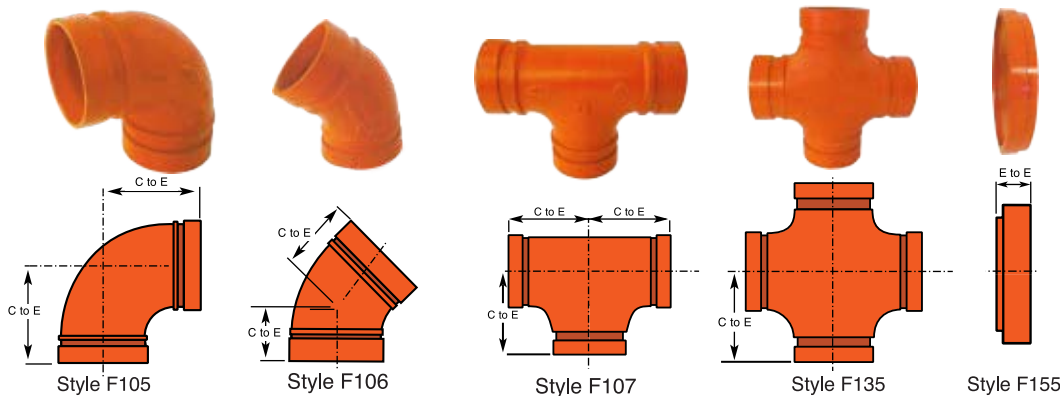


60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

www.gemlockgrooved.com

GROOVED FITTINGS - SHORT PATTERN STYLES F105, F106, F107, F135 & F155

- Sized to improve flow
- Designed to Fire Protection Industry standards for short patterned fittings
- Rated for 300 lbs. operation with a 5 to 1 safety factor
- Made of durable, high-strength ductile iron conforming to ASTM A536; every lot is metallurgically tested for compliance
- Available with hot dipped galvanized coating
- Usage of these fittings with Style 5, Style 12 and Style 25 couplings should be evaluated properly due to bolt pad interference of couplings



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

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 (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.)	E to E (In.)	Approx. Wgt. Ea. (lb.)
1½	1.660	2.362	0.9	1.732	0.5	2.362	1.0	-	-	.866	0.4
1½	1.900	2.362	1.1	1.732	0.9	2.362	1.5	-	-	.866	0.5
2	2.375	2.755	1.3	2.007	1.1	2.755	1.9	2.755	2.2	.866	0.6
2½	2.875	3.00	2.0	2.007	1.8	3.00	2.6	3.00	3.3	.866	0.7
3	3.500	3.5	2.6	2.519	2.2	3.5	4.2	3.5	5.1	.866	1.1
4	4.500	4.00	5.1	2.992	4.0	4.00	6.6	4.00	7.5	.99	1.8
5	5.563	4.803	6.8	3.543	6.4	4.803	9.0	4.803	13.7	.99	2.9
6	6.625	5.50	12.8	3.74	9.3	5.50	20.9	5.5	19.7	.99	4.2
8	8.625	6.80	22.7	4.881	16.3	6.95	32.9	7.047	34.4	1.181	7.9

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. For dry systems, TRI Seal gaskets are recommended. EPDM gasket is supplied as standard. For other gaskets contact us.



UL Listed Under File No. EX15591

PROJECT INFORMATION

Project:

Address:

Contractor:

Engineer:

Submittal Data:

Notes 1:

Notes 2:

APPROVAL STAMP

☐ Approved

☐ Approved as noted

☐ Not approved

Remarks: