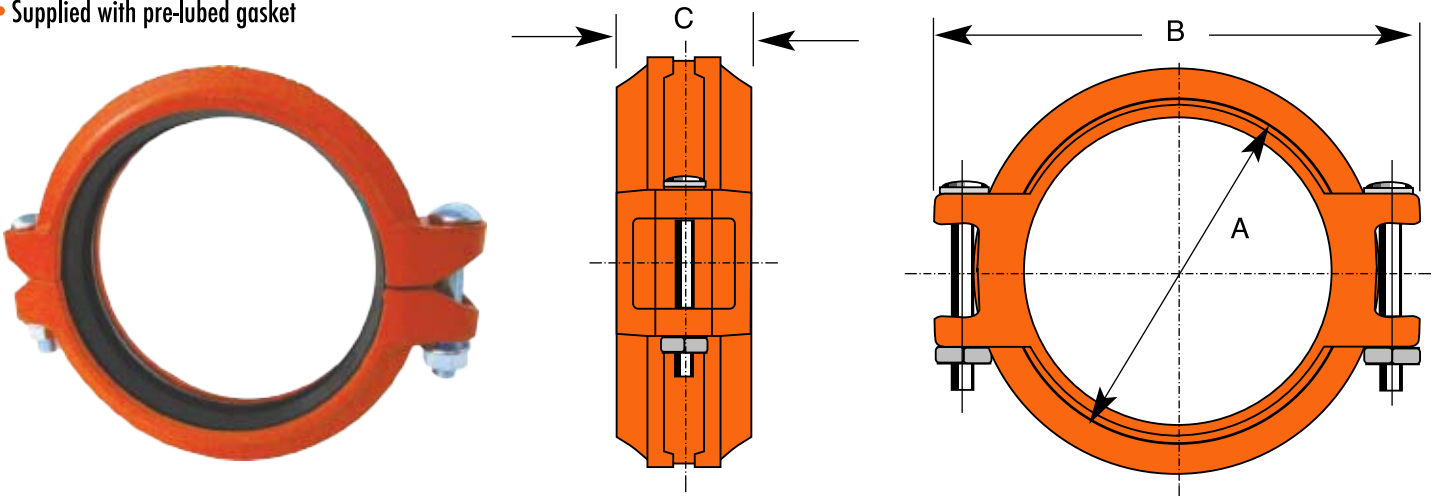


60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

www.gemlockgrooved.com

RIGID COUPLING - STYLE 5

- Provides joint rigidity, for the support and hanging requirements of ANSI B31.1 Power Piping Code; ANSI B31.9 Building Service Pipe Code and NFPA 13 Sprinkler Systems
- Tongue and groove arrangements in housings do not permit expansion, contraction or deflection
- Available with hot dipped galvanized coatings as optional
- Supplied with pre-lubed gasket



Pipe		Max Working Pressure (psi)*	Allow Pipe End Separation (In.) [‡]	Dimensions (In.)			Approx. Weight Each (lb.)
Nominal Size	Actual Size (In.)			A	B	C	
1"	1.315	400	0.10	2.188	3.858	1.732	1.2
1¼"	1.660	400	0.10	2.535	3.897	1.732	1.5
1½"	1.900	400	0.10	2.803	3.858	1.732	1.7
2"	2.375	400	0.10	3.283	5.00	1.732	1.9
2½"	2.875	400	0.10	3.842	5.433	1.732	1.9
3"	3.500	400	0.10	4.574	6.535	1.772	2.4
4"	4.500	400	0.16	5.416	7.598	1.889	3.2
5"	5.563	300	0.16	6.771	8.818	1.889	4.5
6"	6.625	300	0.16	7.874	9.921	1.889	5.8
8"	8.625	300	0.19	10.11	12.367	2.362	10.8



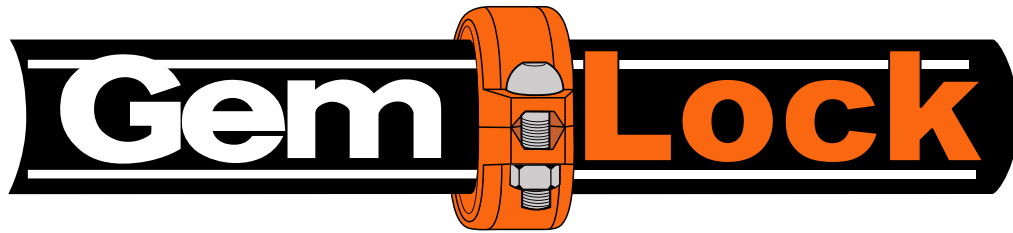
UL Listed Under File No. EX15592

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.

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			

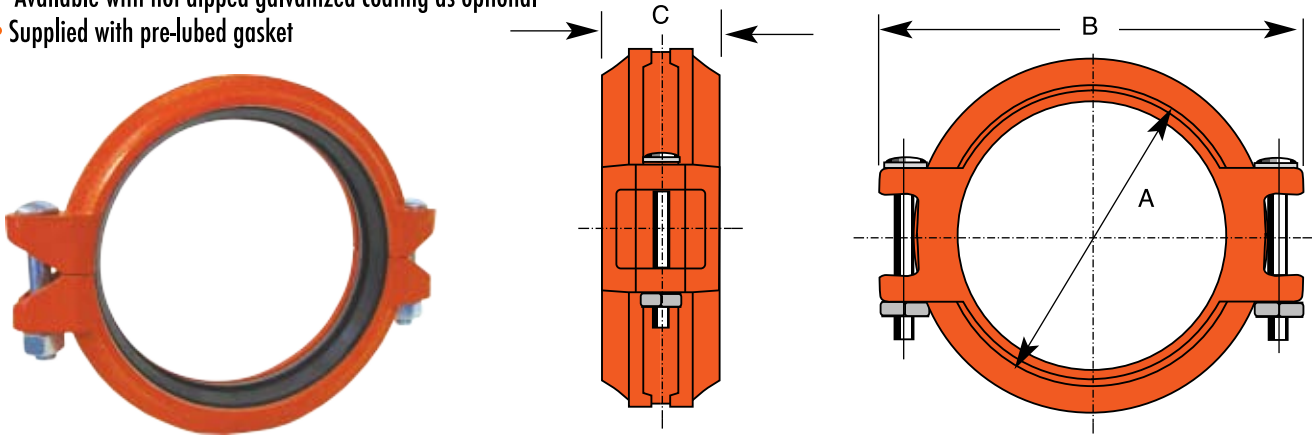


60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

www.gemlockgrooved.com

FLEXIBLE COUPLING - STYLE 12

- Provides joint flexibility required in some piping systems
- Conforms to the requirements of ANSI B31.1 Power Piping Code; ANSI B31.9 Building Service Pipe Code and NFPA 13 Sprinkler Systems
- Available with hot dipped galvanized coating as optional
- Supplied with pre-lubed gasket



Pipe		Max Working Pressure (psi)*	Allow Pipe End Separation (in.) [§]	Max Deflection from Center Line §		Dimensions (In.)			Approx. Weight Each (lb.)
Nominal Size	Actual Size (In.)			Per Coup. Deg.	Pipe (In.)	A	B	C	
1"	1.315	400	0.10	5°-26'	1.14	2.188	3.858	1.73	1.2
1¼"	1.660	400	0.10	4°-19'	0.90	2.535	3.897	1.732	1.3
1½"	1.900	400	0.10	3°-46'	0.79	2.803	4.527	1.732	1.5
2"	2.375	400	0.10	3°-1'	0.62	3.283	5.00	1.732	1.7
2½"	2.875	400	0.10	2°-29'	0.52	3.842	5.433	1.732	2.0
3"	3.500	400	0.10	2°-3'	0.43	4.574	6.535	1.772	2.6
4"	4.500	400	0.16	3°-11'	0.67	5.614	7.598	1.889	4.1
5"	5.563	300	0.16	2°-35'	0.54	6.771	8.818	1.889	5.7
6"	6.625	300	0.16	2°-10'	0.46	7.874	9.921	1.889	6.1
8"	8.625	300	0.19	1°-40'	0.34	10.71	12.637	2.362	11.9
10" *	10.75	300	0.19	0°-95'	0.13	12.91	16.54	2.52	21.5

*Standard weight coupling



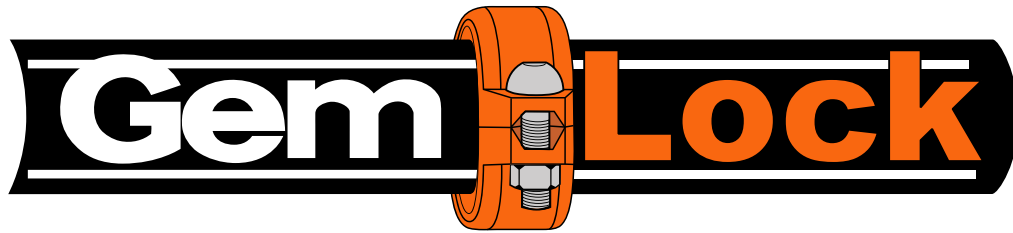
UL Listed Under File No. EX15592

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.

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			



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

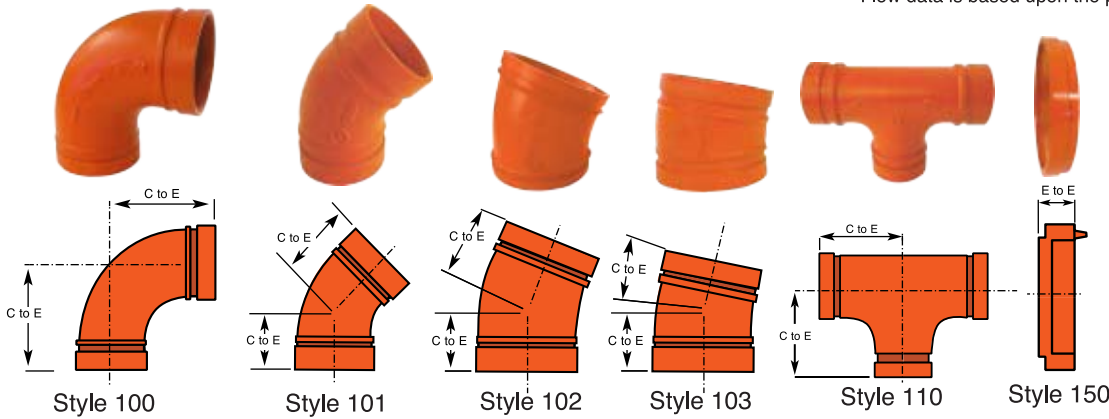
www.gemlockgrooved.com

STANDARD GROOVED FITTINGS STYLES 100, 101, 102, 103, 110 & 150

- All fittings are full flow design
- Pressure ratings of fittings tested to an operating pressure of 500 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.)	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	5.1	12	20.0	10.0	50.0	20.0
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		11¼° 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	1.660	2.75	0.9	1.75	0.6	1.75	0.7	1.38	0.5	2.75	1.4	.866	0.12
1½	1.900	2.75	1.1	1.75	1.0	1.75	0.8	1.38	0.7	2.75	1.8	.866	0.16
2	2.375	3.25	1.9	2.00	1.3	1.88	1.5	1.38	0.9	3.25	2.8	.866	0.26
2½	2.875	3.75	3.0	2.00	2.2	2.00	1.9	1.50	1.5	3.75	4.4	.866	0.37
3	3.500	4.25	4.7	2.50	3.2	2.25	3.2	1.50	2.0	4.25	6.5	.866	0.52
4	4.500	5.00	7.8	3.00	5.5	2.87	5.3	1.75	3.3	5.00	11.8	.99	0.70
5	5.563	5.50	12.1	3.25	8.5	2.88	7.2	2.00	5.0	5.50	19.2	.99	1.14
6	6.625	6.50	16.5	3.50	12.5	3.13	11.4	2.00	7.4	6.50	24.0	.99	1.68
8	8.625	7.75	33.1	4.25	21.8	3.88	17.8	2.00	10.0	7.75	51.8	1.181	3.51
10	10.750	9.00	61.1	4.75	28.9	4.38	30.0	2.13	14.5	9.00	77.1	1.259	26.0



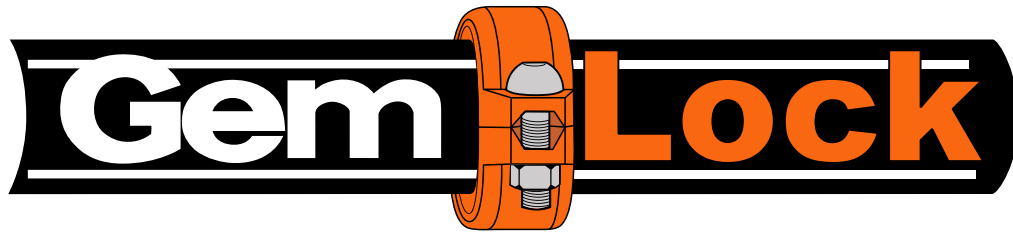
UL Listed Under File No. EX15591

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.

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			

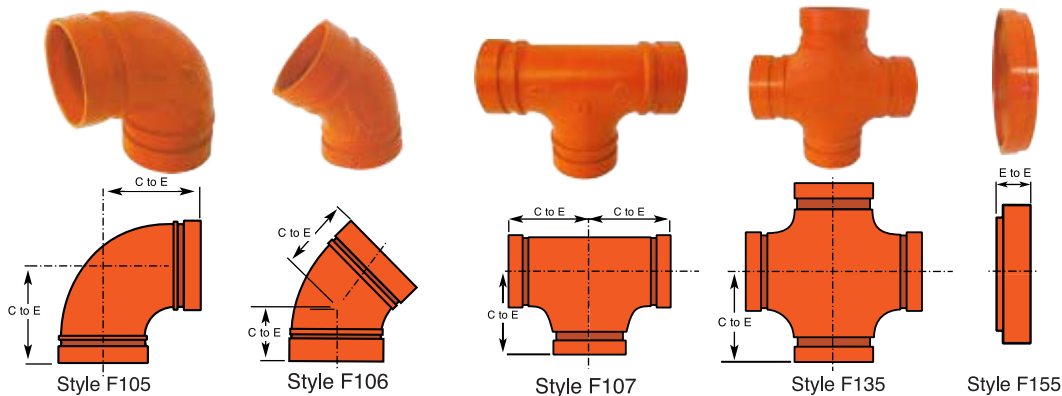


60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

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	2.7	2.5	1.3	1.3	6.7	5.5	2.7
2½	3.4	3.2	1.7	1.6	8.6	8.2	3.4
3	4.1	3.9	2.1	2.0	10.3	10.1	4.1
4	5.1	4.8	2.6	2.4	12.8	12.5	5.1
5	6.7	6.5	3.4	3.2	16.8	16.0	6.7
6	8.4	8.4	4.2	4.0	21.0	20.5	8.4
8	10.1	10.0	5.1	4.8	25.3	24.0	10.1
10	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:

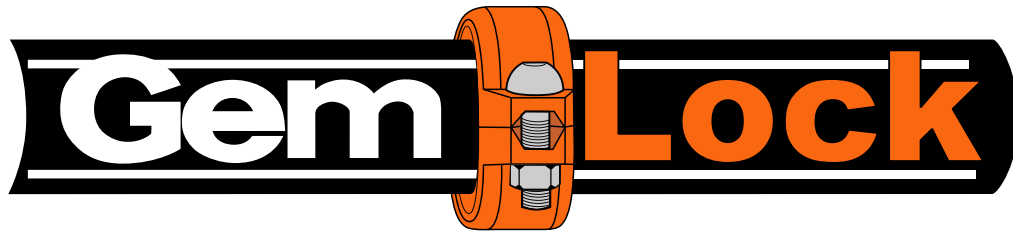
APPROVAL STAMP

☐ Approved

☐ Approved as noted

☐ Not approved

Remarks:



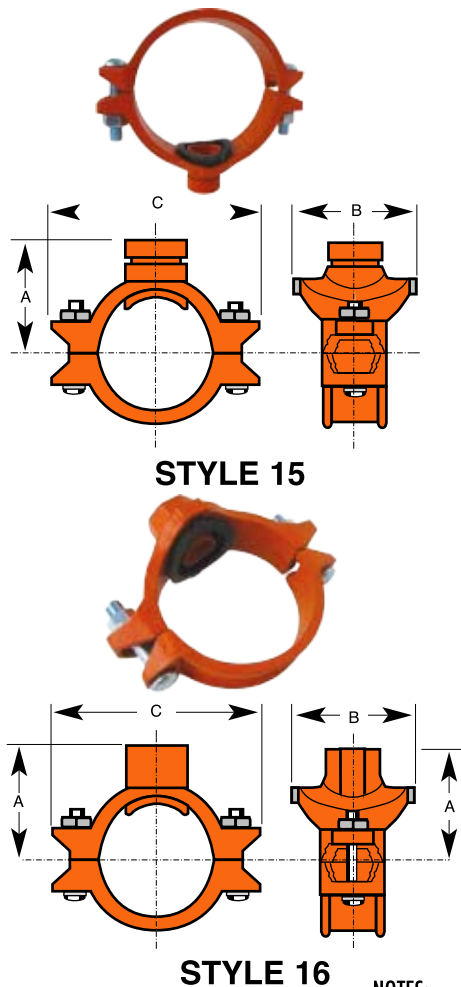
60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

www.gemlockgrooved.com

MECHANICAL TEES -

STYLE 15 GROOVED & STYLE 16 THREADED

- Mechanical Branchlet provides a direct branch connection at any location along the pipe run without welding. A hole cut along the center line of pipe will receive the hole locator collar to secure the outlet. A pressure responsive gasket molded to suit the run pipe insures leak tight joints. Cross type connections can be made utilizing upper housings only.



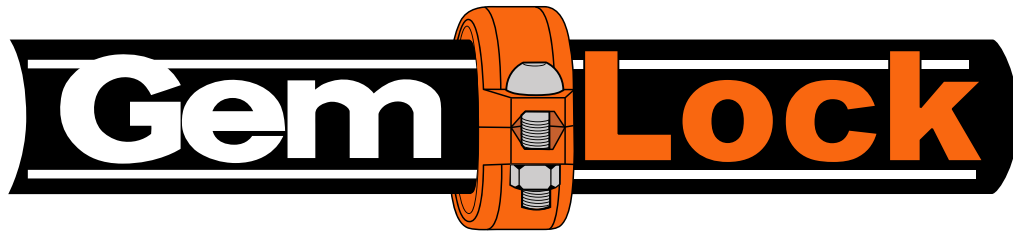
Run Size (In.)	Outlet Size (In.)	Max Working Pressure (psi)*	Hole Diameter		Grooved Dimensions (In.)			Threaded Dimensions (In.)			Approx. Weight Each	
			Hole Saw (in.)	Max Perm. (In.)	Grvd. A	B	C	Thrd. A	B	C	Grvd. lb.	Thrd. lb.
2	1/2	300	1.50	1.63	-	-	-	2.36	2.71	2.77	-	2.5
	3/4	300	1.50	1.63	-	-	-	2.36	2.71	2.87	-	2.2
	1	300	1.50	1.63	-	-	-	2.36	2.71	4.57	-	2.4
	1-1/4	300	1.75	1.81	2.32	2.71	4.57	2.36	2.71	4.57	2.5	2.5
	1-1/2	300	1.75	1.81	2.32	2.71	4.57	2.36	2.71	4.57	2.5	2.5
2½	1/2	300	1.50	1.63	-	-	-	2.76	3.03	5.67	-	3.5
	3/4	300	1.50	1.63	-	-	-	2.76	3.03	5.67	-	3.3
	1	300	1.50	1.63	-	-	-	2.76	3.03	5.67	-	3.3
	1-1/4	300	2.00	2.13	3.16	2.76	5.67	2.76	3.27	5.67	-	3.5
	1-1/2	300	2.00	2.13	3.16	2.76	5.67	2.76	3.27	5.67	-	3.5
3	1/2	300	1.50	1.63	-	-	-	3.23	3.03	5.98	-	4.0
	3/4	300	1.50	1.63	-	-	-	3.23	3.03	5.98	-	3.9
	1	300	1.50	1.63	2.76	3.07	5.98	3.23	3.03	5.98	-	3.9
	1-1/4	300	2.00	2.13	2.76	3.23	5.98	3.23	3.27	5.98	4.2	4.2
	1-1/2	300	2.00	2.13	2.76	3.58	5.98	3.23	3.62	5.98	4.2	4.2
	2	300	2.50	2.63	3.23	2.40	5.98	3.23	3.90	5.98	4.2	4.3
4	1/2	300	1.50	1.63	-	-	-	3.43	7.25	6.77	-	5.3
	3/4	300	1.50	1.63	-	-	-	3.43	7.25	6.77	-	5.1
	1	300	1.50	1.63	3.66	3.03	7.40	3.43	3.03	6.77	-	4.9
	1-1/4	300	2.00	2.13	3.66	3.27	7.32	3.43	3.27	6.77	5.4	5.1
	1-1/2	300	2.00	2.13	3.66	3.62	7.32	3.43	3.62	6.77	4.8	5.1
	2	300	2.50	2.63	3.66	3.82	7.40	3.43	3.81	6.77	5.1	4.8
	2-1/2	300	3.00	3.05	3.66	4.41	7.40	3.43	4.41	6.77	5.3	5.1
	3	300	3.50	3.63	3.66	4.80	7.40	3.43	4.80	6.77	6.4	6.4

UL Listed Under File No. EX15592

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.

PROJECT INFORMATION					APPROVAL STAMP	
Project:					<input type="checkbox"/> Approved	
Address:					<input type="checkbox"/> Approved as noted	
Contractor:					<input type="checkbox"/> Not approved	
Engineer:					Remarks:	
Submittal Data:						
Notes 1:						
Notes 2:						



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

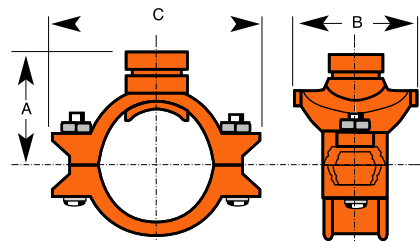
www.gemlockgrooved.com

MECHANICAL TEES - STYLE 15 GROOVED & STYLE 16 THREADED

• Mechanical Branchlet provides a direct branch connection at any location along the pipe run without welding. A hole cut along the center line of pipe will receive the hole locator collar to secure the outlet. A pressure responsive gasket molded to suit the run pipe insures leak tight joints. Cross type connections can be made utilizing upper housings only.

PERFORMANCE DATA

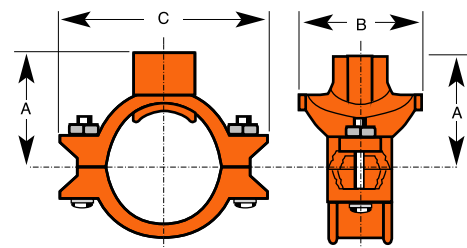
OUTLET SIZE Nominal Size (In.)	Cv Values	Equiv. Feet of Pipe	
		Grvd.	Female Thrd.
½	15	-	2.0
¾	18	-	4.0
1	22	-	5.0
1¼	39	5.5	6.0
1½	52	7.0	8.0
2	87	9.0	10.5
2½	117	11.0	12.5
3	173	13.5	15.5
4	346	20.0	22.0



STYLE 15



Cross Configuration



STYLE 16



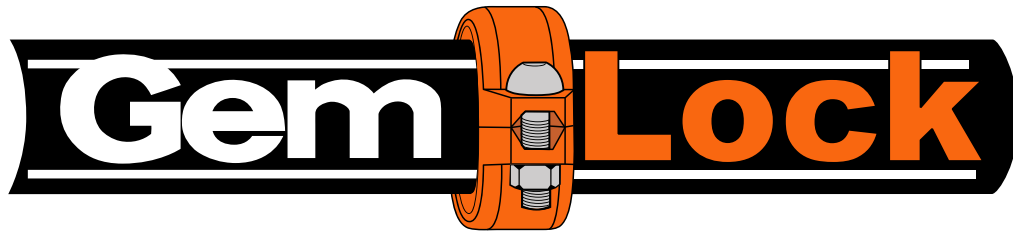
UL Listed Under File No. EX15592

Run Size (In.)	Outlet Size (In.)	Max Working Pressure	Hole Diameter		Grooved Dimensions (In.)			Threaded Dimensions (In.)			Approx. Weight Each	
			Hole Saw (in.)	Max Perm. (In.)	A	B	C	A	B	C	Grvd. lb.	Thrd. lb.
5	1¼	300	2.00	2.13	4.21	3.00	8.66	3.94	3.27	8.27	6.0	6.8
	1½	300	2.00	2.13	4.21	3.40	8.66	3.94	3.62	8.27	6.2	6.6
	2	300	2.50	2.63	4.21	3.82	8.66	3.94	3.82	8.27	6.6	6.8
	2½	300	2.75	2.88	4.21	4.41	8.66	3.94	4.41	8.27	7.5	7.9
	3	300	3.50	3.63	4.21	4.80	8.66	3.94	4.80	8.27	8.3	8.2
6	1¼	300	2.00	2.13	5.04	3.29	9.72	4.61	3.27	8.66	8.2	7.7
	1½	300	2.00	2.13	5.04	3.62	9.72	4.61	3.62	8.66	7.5	7.9
	2	300	2.50	2.63	5.04	3.86	9.72	4.61	3.82	8.66	7.7	8.2
	2½	300	3.25	3.35	5.04	4.76	9.72	4.61	4.41	8.66	7.7	8.3
	3	300	3.50	3.63	5.04	5.28	9.72	4.61	4.80	8.66	9.0	8.8
8	4	300	4.50	4.63	5.04	6.18	9.72	4.61	5.20	8.66	11.0	12.8
	2	300	2.50	2.63	5.75	3.82	12.20	5.35	3.82	12.20	11.0	11.5
	2½	300	2.75	2.88	5.75	4.41	12.20	5.35	4.41	12.20	10.0	10.8
	3	300	3.50	3.63	5.75	4.80	12.20	5.35	4.80	12.20	12.3	12.5
	4	300	4.50	4.63	5.75	5.28t	12.20	5.35	5.20	12.20	12.6	13.2

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.

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			



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

www.gemlockgrooved.com

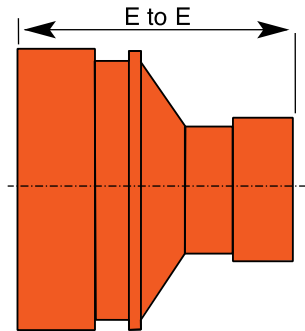
STANDARD CONCENTRIC REDUCER - STYLE 140

- All fittings are full flow design
- Pressure ratings of fittings tested to an operating pressure of 500 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

See Style 140TM and 140TF for threaded outlet.



Style 140



UL Listed Under File No. EX15591

Concentric Reducer - No.140		
Nominal Size (In.)	E to E (in.)	Approx. Wgt. Ea. (lb.)
1¼ x 1	2.50	0.6
1½ x 1	2.50	0.8
2 x 1	2.50	0.7
2 x 1¼	2.50	1.2
2 x 1½	2.50	1.0
2½ x 1	2.50	3.6
2½ x 1¼	2.50	3.3
2½ x 1½	2.50	3.6
2½ x 2	2.50	3.9
3 x 1	2.50	1.3
3 x 1¼	2.50	3.0
3 x 1½	2.50	5.1
3 x 2	2.50	1.6
3 x 2½	2.50	1.8
4 x 1	3.00	3.0
4 x 1¼	3.00	4.6
4 x 1½	3.00	6.9
4 x 2	3.00	2.4
4 x 2½	3.00	2.7
4 x 3	3.00	3.2
5 x 2	4.02	4.6

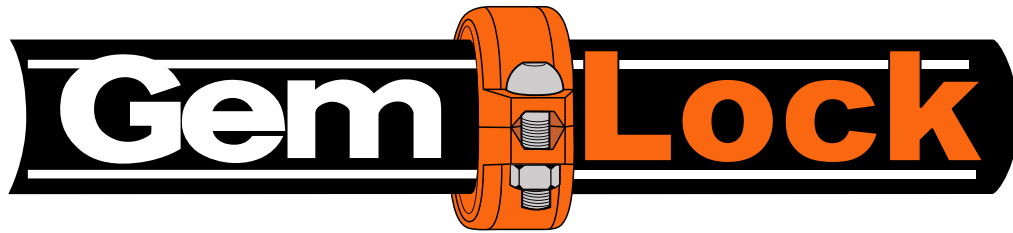
Concentric Reducer - No.140		
Nominal Size (In.)	E to E (in.)	Approx. Wgt. Ea. (lb.)
5 x 2½	4.02	4
5 x 3	4.02	4
5 x 4	4.02	4
6 x 2	4.02	4
6 x 2½	4.02	4
6 x 3	4.02	4
6 x 4	4.02	4
6 x 5	4.02	4
8 x 3	5.00	9.3
8 x 4	5.00	10.4
8 x 5	5.00	13.7
8 x 6	5.00	14.3
10 x 3	6.10	2.8
10 x 4	6.10	13.0
10 x 5	6.10	13.2
10 x 6	6.10	14.1
10 x 8	6.10	16.5

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.

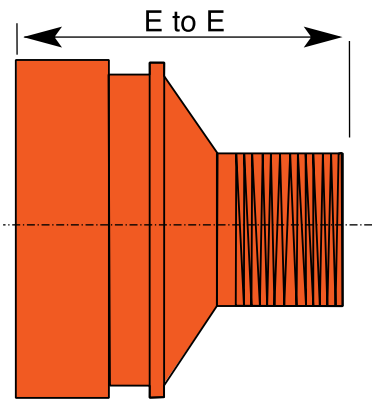
PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			



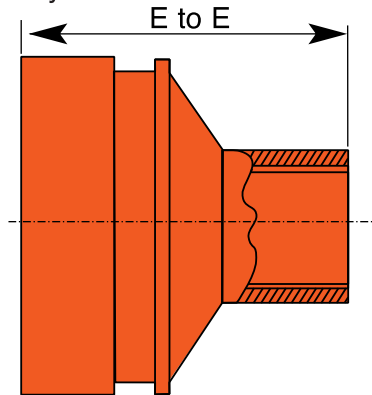
60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

www.gemlockgrooved.com

CONCENTRIC REDUCER - STYLE 140 TF, TM



Style 140 TM



Style 140 TF

UL Listed Under File No. EX15591

Nominal Size (In.)	E to E (In.)	Approx. Wgt. Each (lb.)
2 x 1	2.5	1.39
2 x 1¼	2.5	0.74
2 x 1½	2.5	0.74
2½ x 1	2.5	1.14
2½ x 1¼	2.5	1.14
2½ x 1½	2.5	1.14
2½ x 2	2.5	1.14
3 x 1	2.5	1.59
3 x 1¼	2.5	1.59
3 x 1½	2.5	1.59
3 x 2	2.5	1.38
4 x 1	3	2.28
4 x 1¼	3	2.28
4 x 1½	3	2.28
4 x 2	3	2.28
6 x 1	4	6.92
6 x 1¼	4	6.92
6 x 1½	4	6.92
6 x 2	4	6.92

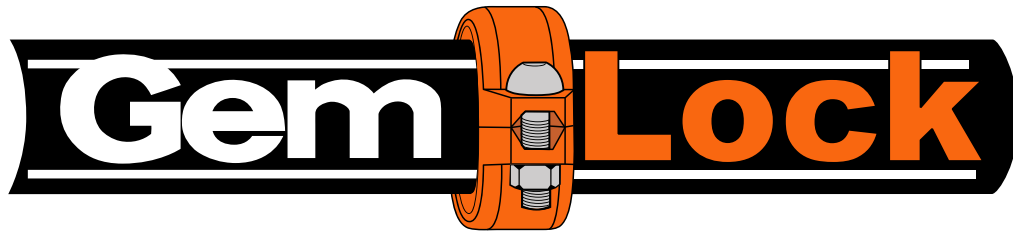
NOTES:

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.



PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			

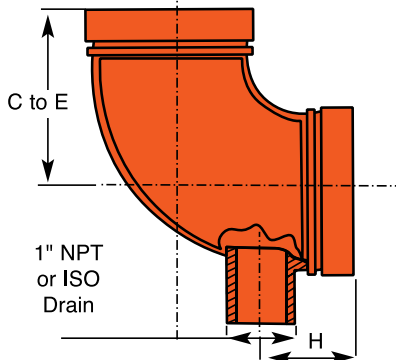


60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

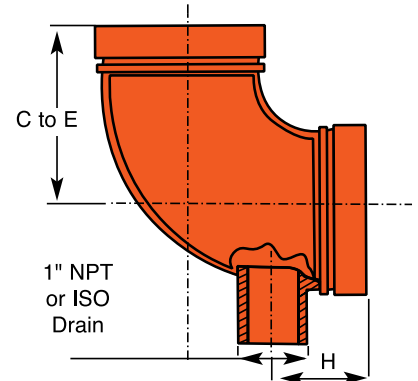
www.gemlockgrooved.com

DRAIN ELBOW - STYLE F100D & F105D

- Provides 1" NPT drain required on some fire protection stand pipes
- Smoother flow than fabricated segmented steel elbows
- Made of ductile iron conforming to ASTM A536
- Every lot is metallurgically tested to insure compliance
- Available with hot dipped galvanized coating
- Pressure rating of 300 lbs. with a 5 to 1 safety factor



Drain Elbow-Standard
Style F100D



Drain Elbow-Short Pattern
Style F105D

Drain Elbow-Standard - Style F100D

Pipe		Dimensions (In.)		Approx. Wgt. Ea. (lb.)
Nominal Size (In.)	Actual Size (In.)	C to E	H	
2	2.375	3.25	2.75	3.8
2½	2.875	3.75	2.75	5.2
3	3.500	4.25	2.75	5.3
4	4.500	5.00	2.75	8.8
6	6.625	6.50	2.75	18.7

FLOW DATA Equivalent Feet of Straight Pipe		
Nominal Size (In.)	90° Elbow	
	STD	Short Pattern
2	3.5	3.2
2½	4.3	3.9
3	5.0	4.8
4	6.8	6.5
6	10.0	10.0

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

Drain Elbow-Short Pattern - Style F105D

Pipe		Dimensions (In.)		Approx. Wgt. Ea. (lb.)
Nominal Size (In.)	Actual Size (In.)	C to E	H	
2	2.375	2.75	2.00	1.0
2½	2.875	3.00	2.00	1.7
3	3.500	3.50	2.00	2.5
4	4.500	4.00	2.00	5.3
6	6.625	5.50	2.00	13.9

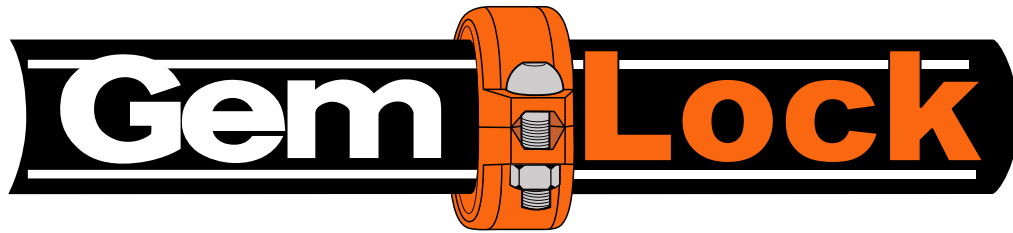
UL Listed Under File No. EX15591

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.



PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			

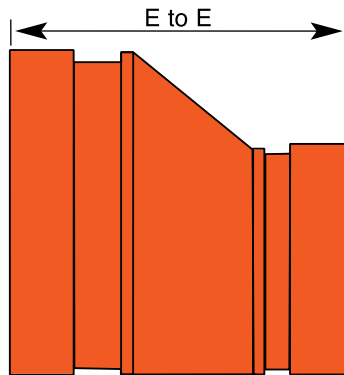


60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

www.gemlockgrooved.com

ECCENTRIC REDUCER - STYLE 145

- All fittings are full flow design
- Pressure ratings of fittings tested to an operating pressure of 500 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



Eccentric Reducer - No.145 Add TF after part number for Internal or TM for External threaded outlet.		
Nominal Size (In.)	E to E (in.)	Approx. Wgt. Ea. (lb.)
2 x 1¼	9	4.6
2 x 1½	9	4.6
2½ x 2	9.5	1.4
3 x 1¼	9.5	4.8
3 x 1½	9.5	5.0
3 x 2	9.5	1.8
3 x 2½	9.5	1.6
4 x 2	10	2.6
4 x 2½	10	2.8
4 x 3	10	3.3
5 x 2	11	5.2
5 x 2½	11	10.8
5 x 3	11	11.0
5 x 4	11	5.1
6 x 2	11.5	14.5
6 x 2½	11.5	14.1
6 x 3	11.5	14.9
6 x 4	11.5	6.6
6 x 5	11.5	9.4
8 x 3	12	22.0
8 x 4	12	22.9
8 x 5	12	26.5
8 x 6	12	30.8
10 x 3	13	29.7
10 x 4	13	31.9
10 x 5	13	34.6
10 x 6	13	36.5
10 x 8	13	38

NOTES:

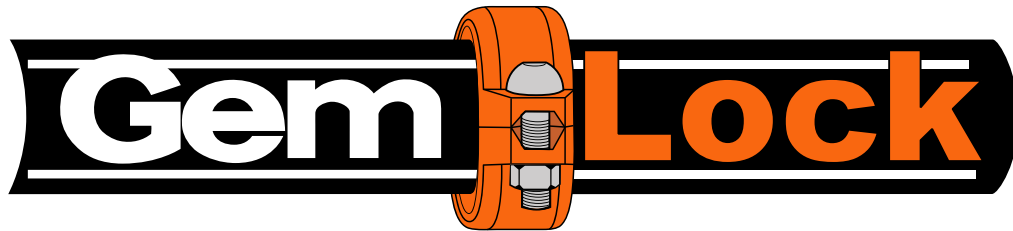
Allowable pipe end separation is for cut groove pipe for roll groove, figures will be one-half of the values listed at time of initial pressurization.

□ - 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	APPROVAL STAMP
Project:	<input type="checkbox"/> Approved
Address:	<input type="checkbox"/> Approved as noted
Contractor:	<input type="checkbox"/> Not approved
Engineer:	Remarks:
Submittal Data:	
Notes 1:	
Notes 2:	

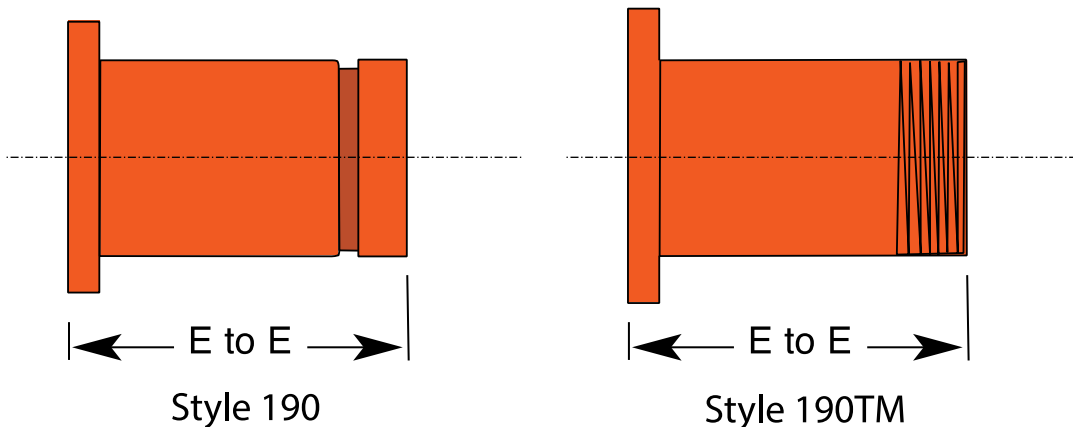


60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

www.gemlockgrooved.com

FLANGE ADAPTERS - STYLE F190 & STYLE F190 TM

- Conforms to Class ANSI 125 lb. flange
- Available with an external threaded or grooved end
- Every lot is metallurgically tested for compliance
- Available with hot dipped galvanized coating
- Pressure ratings of fittings conform to those of Style 5, Style 12, and Style 25 couplings



Nominal Size (In.)	Actual Size (In.)	E to E (In.)	Approx. Wgt. Ea. (lb.)
2	2.375	4.0	6.6
2½	2.875	4.0	8.8
3	3.500	4.0	11.0
4	4.500	6.0	19.8
5	5.563	6.0	22.0
6	6.625	6.0	28.6
8	8.625	6.0	43.0
10	10.750	8.0	60.5



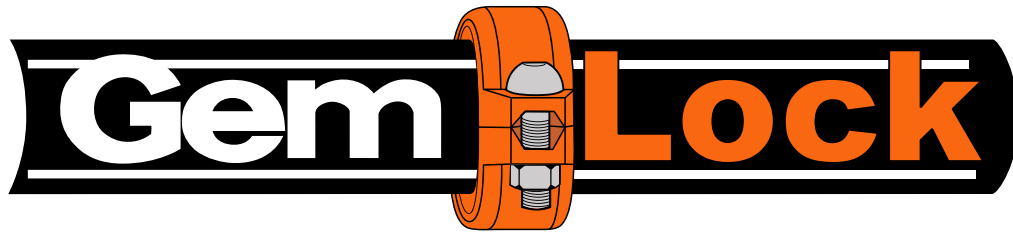
UL Listed Under File No. EX15591

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.

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			

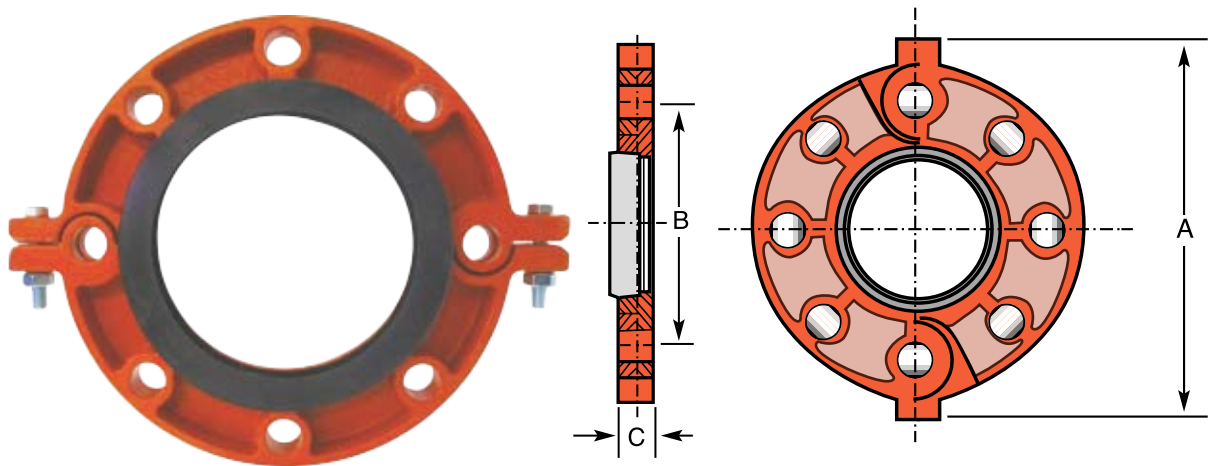


60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

www.gemlockgrooved.com

GROOVED FLANGE

- Designed to connect ANSI Class 125 or 150 flanged components to a grooved piping system
- Made of a ductile iron conforming to ASTM A-536. Every lot is metallurgically examined to insure compliance
- Provided with EPDM rubber gasket as standard, suitable for -30 ° F to 150 ° F (-34 ° C to 110 ° C)
- Available with hot dipped galvanized coating as optional



Pipe		Max Working Pressure (psi)*	Number and Bolt Size	Sealing Surface (In.)		Dimensions (In.)			Approx. Wt. Each (lb.)
Nominal Size	Actual Size (In.)			X Min.	Y Max.	A	B	C	
2"	2.375	300	4-5/8 x 2½	3.09	2.42	8.110	4.763	0.866	3.0
2½"	2.875	300	4-5/8 x 3	3.58	2.92	9.055	5.511	0.866	4.2
3"	3.500	300	4-5/8 x 3	4.21	3.56	9.527	5.984	0.944	4.4
4"	4.500	300	8-5/8 x 3	5.26	4.57	11.023	7.519	0.944	8.4
5"	5.563	300	8-¾ x 3½	6.41	5.65	12.795	8.503	0.964	9.0
6"	6.625	300	8-¾ x 3½	7.48	6.71	XX.110	X.763	X.866	10.4
8"	8.625	300	8-¾ x 3½	9.58	8.70	16.311	11.751	1.181	19.8



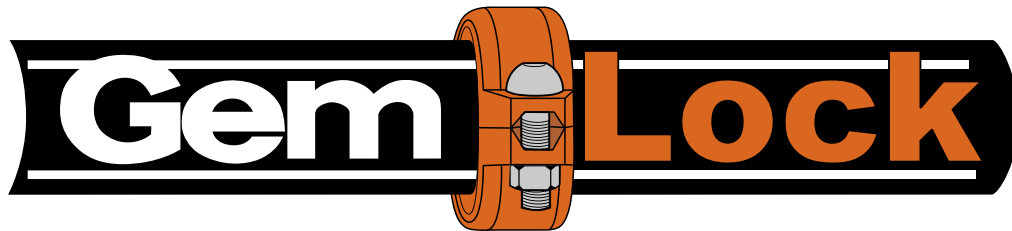
UL Listed Under
File No. EX15592

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.

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			

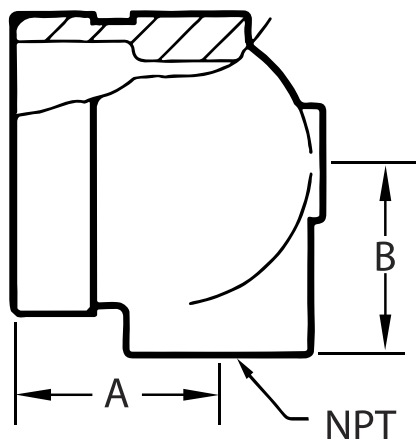


60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

www.gemlockgrooved.com

90° ADAPTER ELL

- Transitions From Grooved to Threaded Connection
- Direct Connection to Sprinkler Heads
- Available in Rust Inhibitive Black Paint & Galvanized Finish
- UL/FM Rated for 500psi.

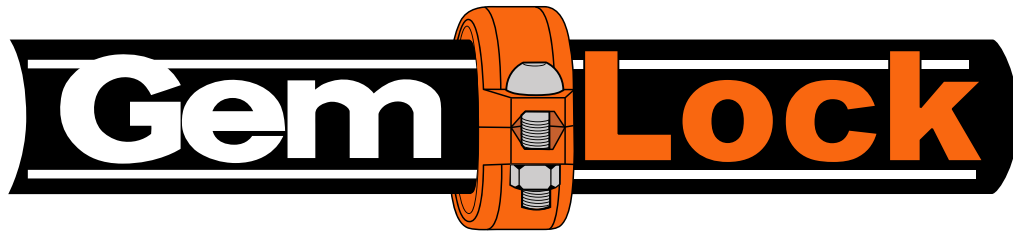


Nominal Size Inch	Max. Work Press. psi	Dimensions in.	
		A	B
1¼ x ½	500	1.77	1.20
1¼ x ¾	500	1.77	1.20
1¼ x 1	500	1.91	1.24
1½ x ½	500	1.77	1.32
1½ x ¾	500	1.77	1.32
1½ x 1	500	1.91	1.32
2 x ½	500	1.75	1.57
2 x ¾	500	1.77	1.57
2 x 1	500	1.91	1.63
2½ x ½	500	1.75	1.75
2½ x ¾	500	1.75	1.75
2½ x 1	500	1.91	1.81



UL Listed Under File No. EX15591

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			

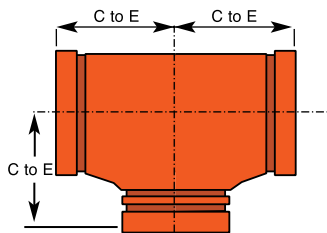


60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

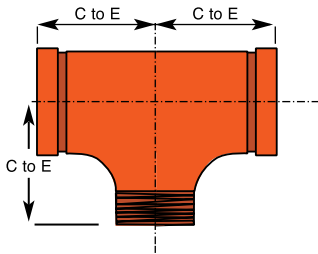
www.gemlockgrooved.com

REDUCER TEE - SHORT PATTERN - STYLE 115

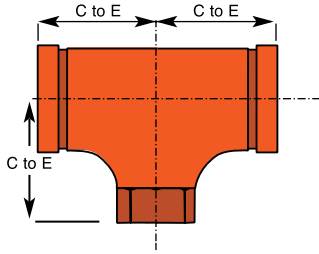
- All fittings are full flow design
- Pressure ratings of fittings tested to an operating pressure of 500 psi
- Made of durable, high-strength ductile iron conforming to ASTM A536; every lot is metallurgically tested for compliance
- Available with hot dipped galvanized coating



Style 115



Style 115TM



Style 115TF

Reducer Tee - No.115					
Add after part number the letters TF for internal or TM for external threaded outlet					
Nominal Size (In.)	C to E (In.)	Approx. Wgt. Ea. (lb.)	Nominal Size (In.)	C to E (In.)	Approx. Wgt. Ea. (lb.)
2 x 2 x 1 1/4	2.76	2.7	6 x 6 x 5	5.60	30.9
2 x 2 x 1 1/2	2.76	2.7	6 1/2 x 6 1/2 x 2	5.60	26.4
2 1/2 x 2 1/2 x 1	3.00	4.8	6 1/2 x 6 1/2 x 2 1/2	5.60	26.5
2 1/2 x 2 1/2 x 1 1/4	3.00	4.8	6 1/2 x 6 1/2 x 3	5.60	24.0
2 1/2 x 2 1/2 x 1 1/2	3.00	5.1	6 1/2 x 6 1/2 x 4	5.60	25.0
2 1/2 x 2 1/2 x 2	3.00	5.1	8 x 8 x 1 1/2	7.05	33.0
3 x 3 x 1	3.38	5.8	8 x 8 x 2	7.05	33.5
3 x 3 x 1 1/4	3.38	6.4	8 x 8 x 2 1/2	7.05	39.0
3 x 3 x 1 1/2	3.38	7.5	8 x 8 x 3	7.05	33.6
3 x 3 x 2	3.38	8.4	8 x 8 x 4	7.05	47.4
3 x 3 x 2 1/2	3.38	8.6	8 x 8 x 5	7.05	48.3
4 x 4 x 1	4.00	7.8	8 x 8 x 6	7.05	49.8
4 x 4 x 1 1/4	4.00	9.6	8 x 8 x 6 1/2	7.05	50.5
4 x 4 x 1 1/2	4.00	10.2	10 x 10 x 2	8.46	84.9
4 x 4 x 2	4.00	10.4	10 x 10 x 2 1/2	8.46	83.8
4 x 4 x 2 1/2	4.00	11.4	10 x 10 x 3	8.46	82.7
4 x 4 x 3	4.00	11.6	10 x 10 x 4	8.46	79.4
5 x 5 x 1 1/2	4.80	14.3	10 x 10 x 5	8.46	78.9
5 x 5 x 2	4.80	14.5	10 x 10 x 6	8.46	78.3
5 x 5 x 2 1/2	4.80	15.2	10 x 10 x 8	8.46	77.2
5 x 5 x 3	4.80	15.4			
5 x 5 x 4	4.80	16.1			
6 x 6 x 1 1/2	5.60	24.0			
6 x 6 x 2	5.60	26.4			
6 x 6 x 2 1/2	5.60	26.5			
6 x 6 x 3	5.60	26.5			
6 x 6 x 4	5.60	29.3			

FLOW DATA Frictional Resistance (Expressed as equivalent Straight Pipe in Ft.)					
Nominal Size (In.)	Reducer Tee		Nominal Size (In.)	Reducer Tee	
	Branch	Run		Branch	Run
1 1/4	5.8	2.3	5	21.0	8.4
1 1/2	6.7	2.7	6	25.3	10.1
2	8.6	3.4	8	33.3	13.3
2 1/2	10.3	4.1	10	41.8	16.7
3	12.8	5.1			
4	16.8	6.7			

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

Style 115TM and 115TF are available up to 8" run size and 2 1/2" outlet size. Max working pressure of Threaded Tee is 300 psi.

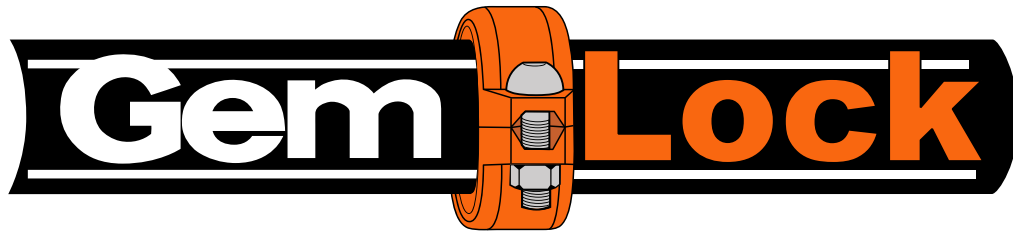


UL Listed Under File No. EX15591

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.

PROJECT INFORMATION	APPROVAL STAMP
Project:	<input type="checkbox"/> Approved
Address:	<input type="checkbox"/> Approved as noted
Contractor:	<input type="checkbox"/> Not approved
Engineer:	Remarks:
Submittal Data:	
Notes 1:	
Notes 2:	



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

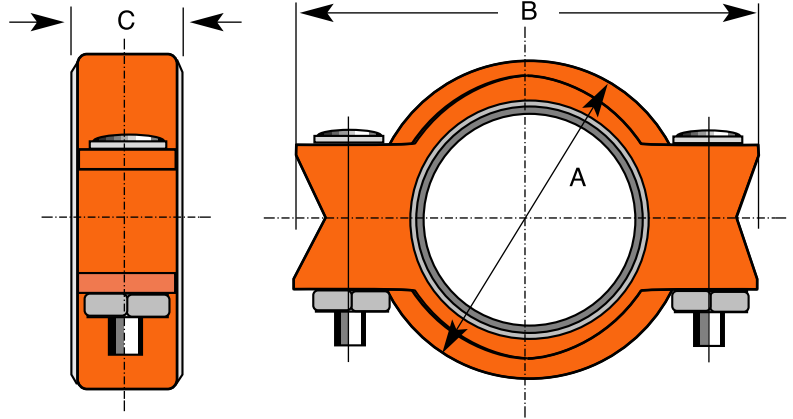
www.gemlockgrooved.com

REDUCING COUPLING - STYLE 25

- Replaces two couplings and in-line reducer (concentric or eccentric)
- Available with hot dipped galvanized coating as optional

HEAD LOSS

Size (In.)	Flow Reducing		Flow Expanding	
	CL Value	Equivalent Pipe Length (Smaller Dia.)	CL Value	Equivalent Pipe Length (Smaller Dia.)
6" x 4"	0.16	4.5 ft	0.08	2.3 ft
5" x 4"	0.14	3.0 ft	0.14	3.3 ft
4" x 3"	0.37	6.0 ft	0.15	2.5 ft
3" x 2½"	0.30	3.8 ft	0.19	2.5 ft
3" x 2"	0.50	5.5 ft	0.30	3.5 ft
2½" x 2"	0.18	1.9 ft	0.09	1.0 ft
2" x 1½"	0.25	1.9 ft	0.23	2.0 ft



In above table, $CL = \frac{2GH_L}{V^2}$

H_L = Head Loss in feet

V = Velocity in smaller pipe in feet/sec.

G = Acceleration due to gravity = 32.2 feet/sec.



UL Listed Under File No. EX15592

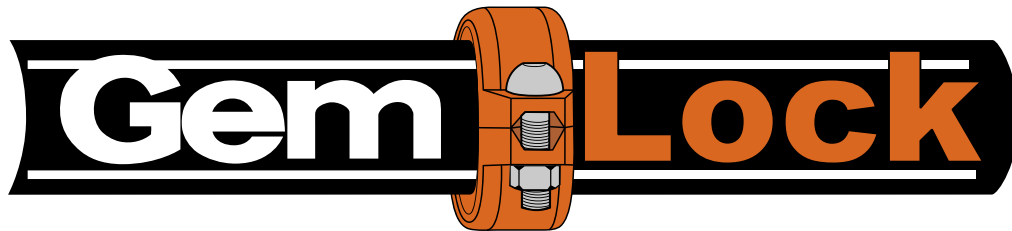
Pipe Nominal Size	Max Working Pressure (psi)*	Allow Pipe End Separation (in.) [§]	Max Deflection from Center Line §		Dimensions (In.)			Approx. Weight Each (lb.)
			Per Coup. Deg.	Pipe (In.)	A	B	C	
1½" x 1¼"	300	0.12	1°-53'	0.40	2.88	4.55	1.77	2.2
2" x 1¼"	300	0.12	1°-53'	0.40	3.543	5.079	1.85	2.2
2" x 1½"	300	0.12	1°-33'	0.40	3.543	5.079	1.85	2.0
2½" x 2"	300	0.12	1°-33'	0.32	3.976	5.394	1.89	3.1
3" x 2"	300	0.12	1°-17'	0.26	4.724	6.45	1.89	4.0
3" x 2½"	300	0.12	1°-17'	0.26	4.72	6.457	1.89	3.7
4" x 2"	300	0.25	2°-38'	0.55	5.906	7.677	1.929	6.4
4" x 2½"	300	0.25	2°-38'	0.55	5.906	7.677	1.929	6.2
4" x 3"	300	0.25	2°-38'	0.55	5.906	7.677	1.929	5.5
5" x 4"	300	0.25	2°-5'	0.44	6.969	8.74	1.909	10.8
6" x 4"	300	0.25	1°-44'	0.38	7.992	9.252	1.969	11.0
8" x 6"	300	0.25	1°-15'	0.26	10.394	12.32	2.362	18.5

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. EPDM gasket is supplied as standard.

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			

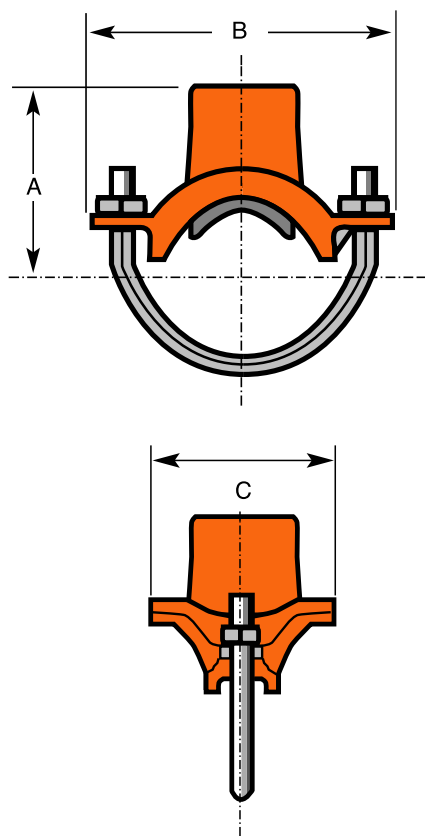


60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

www.gemlockgrooved.com

TEE LOCK - STYLE 13

- Molded gasket for each header size is made to insure a leak tight connection
- Wrap around casting is combined with a high tensile U-bolt flattened to prevent pipe deformation
- Rated for 300 psi. UL Listed and FM Approved
- Manufactured from Ductile Iron, per ASTM A536
- Grade E EPDM gasket rated for -30°F to 150°F

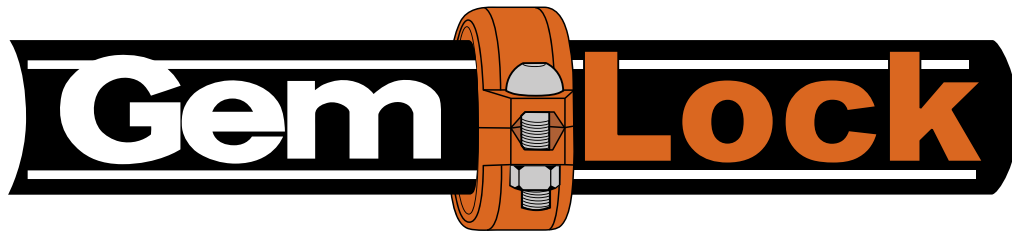


Nominal Size Inch	Max. Work Press. psi	Hole Saw inch	Dimensions inches		
			A	B	C
1¼ x ½	300	1 ³ / ₁₆	1.693	3.543	2.205
1¼ x ¾	300	1 ³ / ₁₆	1.772	3.543	2.205
1¼ x 1	300	1 ³ / ₁₆	1.969	3.543	2.20
1½ x ½	300	1 ³ / ₁₆	1.693	3.661	2.323
1½ x ¾	300	1 ³ / ₁₆	2.126	3.661	2.323
1½ x 1	300	1 ³ / ₁₆	2.283	3.661	2.323
2 x ½	300	1 ³ / ₁₆	2.126	3.780	2.323
2 x ¾	300	1 ³ / ₁₆	2.205	3.780	2.323
2 x 1	300	1 ³ / ₁₆	2.598	3.780	2.323
2½ x ½	300	1 ³ / ₁₆	2.362	4.331	2.323
2½ x ¾	300	1 ³ / ₁₆	2.480	4.331	2.323
2½ x 1	300	1 ³ / ₁₆	2.756	4.331	2.323
3 x ½	300	1 ³ / ₁₆	2.402	4.331	2.323
3 x ¾	300	1 ³ / ₁₆	2.638	4.331	2.323
3 x 1	300	1 ³ / ₁₆	2.913	4.331	2.323



UL Listed Under File No. EX15591

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			



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

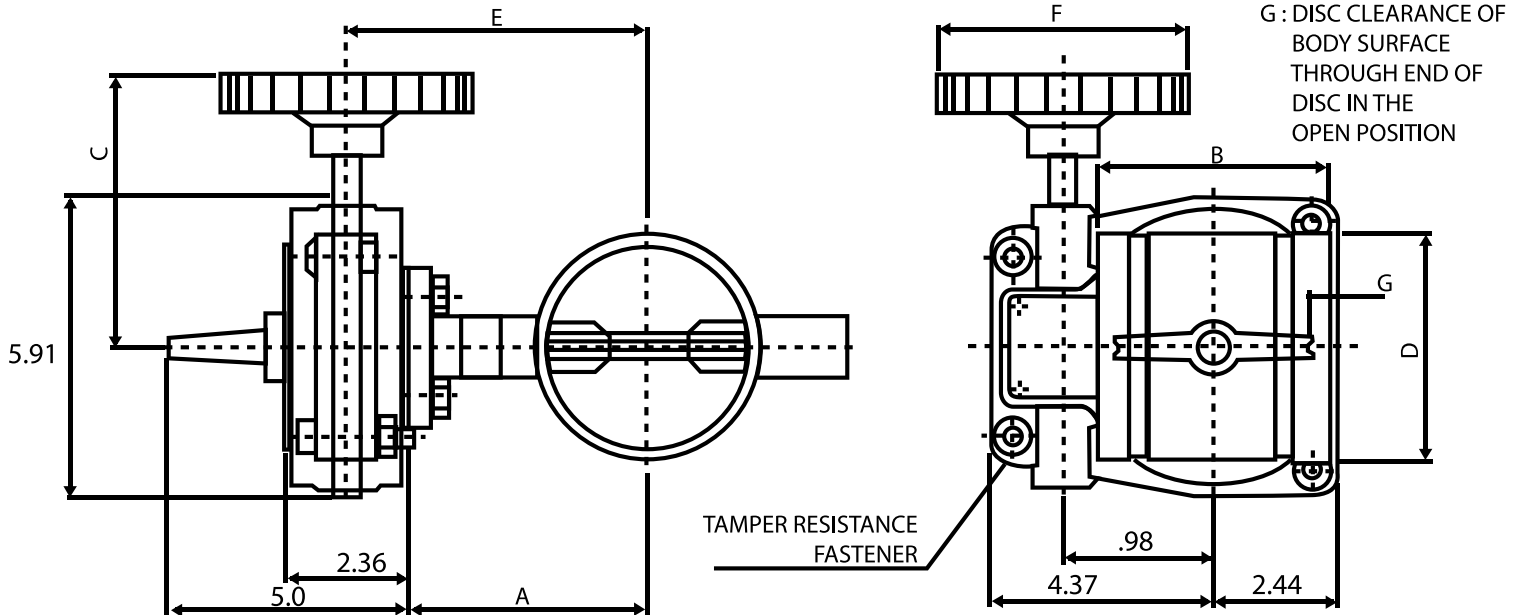
www.gemlockgrooved.com

GROOVED BUTTERFLY VALVE

Features:

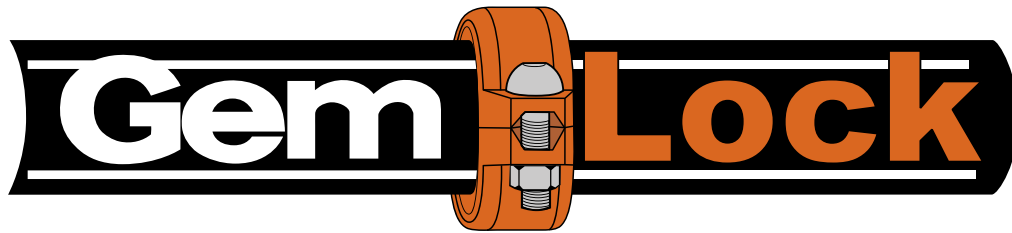
- Rated 300psi/ 20.7 BAR
- UL Listed/ FM Approved
- Indoor/ outdoor use
- Pre-wired Double tamper switches
- Eliminates water hammer
- Slow open/ slow close
- Flag type position indicator
- DI body encapsulated with a resistant durable polymer coating to ensure a long service life
- Disc is EPDM Coated with SS Stem

	DIMENSION DATA						UNIT: IN
	A	B	C	D	E	F	G
2 1/2	4.13	3.80	5.31	2.87	5.31	5.04	
3	4.41	3.87	5.31	3.50	5.59	5.04	
4	5.71	4.54	5.31	4.50	6.90	5.04	
6	7.05	5.21	7.60	6.63	8.23	8.66	.27
8	8.03	5.80	7.60	8.63	9.21	8.66	.95



LANSDALE
INTERNATIONAL

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			



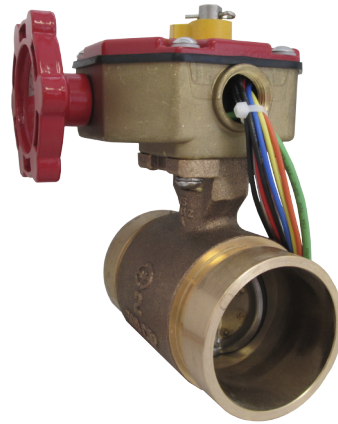
60 Cohoes Ave. Green Island, NY 12183 • Ph: (518) 270-2159 • Fax: (518) 270-8384

www.gemlockgrooved.com

POWERBALL 300 SPRINKLER CONTROL VALVE

Features:

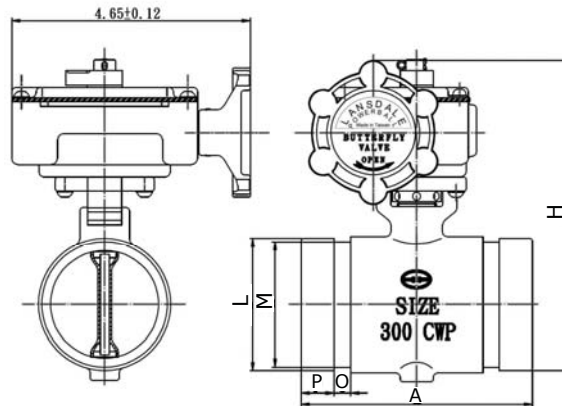
- Rated 300psi
- UL Listed/ FM Approved
- Indoor/ Outdoor use
- Integral tamper switch
- Eliminates water hammer
- Slow open/ Slow close



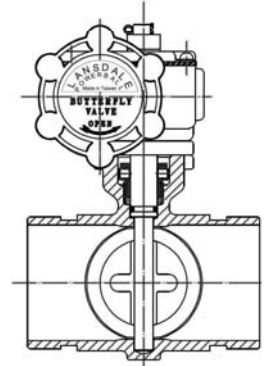
MAIN DIMENSIONS - UNIT: INCHES					
LPBG (Grooved Ends)					
Size	1"	1-1/4"	1-1/2"	2"	2-1/2"
A	N/A	3.86	4.02	4.09	4.49
H	N/A	5.20	5.47	6.07	6.58
P	N/A	0.63	0.63	0.63	0.63
O	N/A	0.31	0.31	0.31	0.31
M	N/A	1.54	1.78	2.25	2.72
L	N/A	1.67	1.90	2.37	2.87
MATERIAL LIST					
NO	NAME	MATERIAL LIST			
1	BODY	BRONZE ASTM 584 C83600			
2	DISC	SS304			
3	HANDWHEEL	ASTM A216 WCB			
4	SEAT	ASTM D2000 VITON			
5	INDICATOR	POWDER METAL FD0205 95HT			
6	HOUSING	BRASS ASTM B16 C36000			
7	COVER	BRASS ASTM B16 C36000			

NOTE: Grooved ends to AWWA C606 for steel pipe.

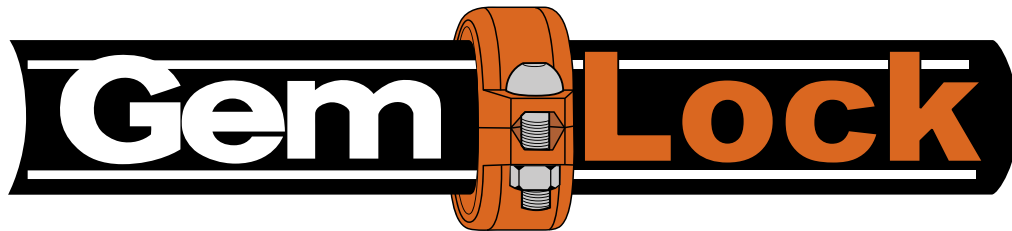
Packing Gland with Adjustable Glands shall be accessible for tightening stem seals without disassemble of the valve or operator parts
U.S. Patented 6629.683.82



LPBG (Grooved Ends)



PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			



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

www.gemlockgrooved.com

350 PSI GROOVED-END SWING CHECK VALVE

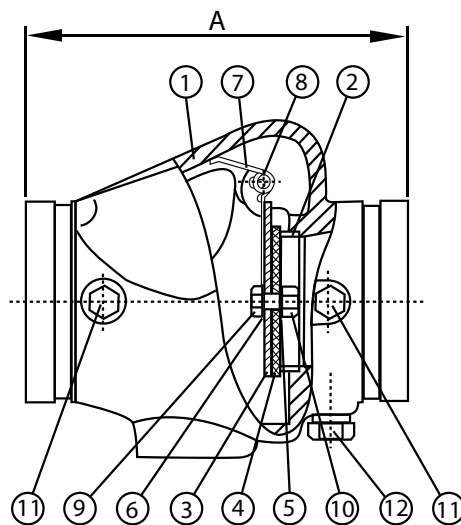
- Installed in both Horizontal or Vertical Line with Upward Flow
- Easier and Faster to Maintain and Install
- Low Pressure Drop
- EPDM non-stick leak tight sealing
- All Stainless Steel Wetted Parts to Provide Superior Corrosion Resistance
- FM Approved & UL/ULC Listed

Material Specifications

PART	SPECIFICATION
1. Body	Ductile Iron ASTM A 536
2. Seat	Bronze
3. Clapper	Stainless Steel 304
4. Facing Seal	EPDM Rubber
5. Clamping Ring	Stainless Steel 304
6. Gasket	EPDM Rubber
7. Spring	Stainless Steel 304
8. Hinge Pin	Stainless Steel 304
9. Bolt	Stainless Steel 304
10. Locknut	Stainless Steel 304
11. Plug 1/4" NPT	Carbon Steel
12. Plug 1/2" NPT	Carbon Steel

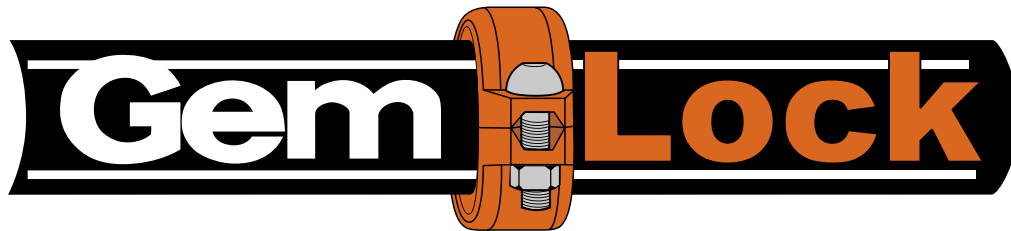
Dimension

size	A	Weight
In.	In.	lbs
2	6.65	5.5
2 1/2	7.20	8.8
3	7.80	13
4	8.58	20
6	10.63	42
8	12.80	77



LANSDALE
INTERNATIONAL

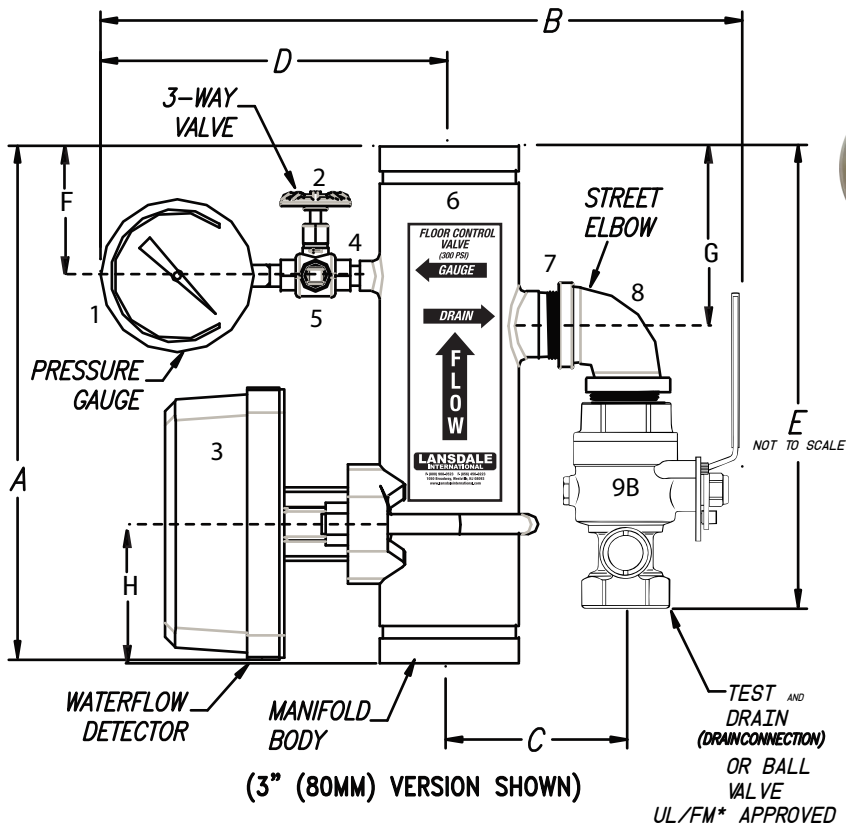
PROJECT INFORMATION		APPROVAL STAMP
Project:		<input type="checkbox"/> Approved
Address:		<input type="checkbox"/> Approved as noted
Contractor:		<input type="checkbox"/> Not approved
Engineer:		Remarks:
Submittal Data:		
Notes 1:		
Notes 2:		



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

www.gemlockgrooved.com

COMMERCIAL RISER



MATERIAL LIST

NO	Description	Qty
1	LANSDALE AIR / WATER - 3-1/2" DIA 0-300 PSI w/ STAINLESS STEEL CASE UL & FM approved	1
2	1/4" 3-Way VALVE	1
3	System Sensor Water Flow Switch w retard UL/FM Approved	1
4	1/4 x 2 Black Nipple	1
5	1/4 Black CI Plug	1
6	Commercial Riser Body Sch 40 A53 Steel Pipe	1
7	Black Nipple _x close	1
8	Galvanized Street Elbow (90 degree)	1
9A	Ball Valve 300 PSI, 600 WOG UL/FM approved	1
9B	Lansdale International or equal, Test & Drain UL/FM Approved	1

Nominal Size	2"	2.5"	3"	4"	6"
A	13"	13"	13"	13"	13"
B (Ball Valve)	13"	13 3/4"	15 3/4"	19 1/2"	20"
B (Test & Drain)	13 1/2"	14 1/4"	16 1/4"	19"	20 3/4"
C	5 1/4"	5"	5 1/2"	7"	8 1/4"
D	9 1/4"	9 1/2"	9 1/2"	10 3/8"	11"
E (Ball Valve)	5 5/8"	7 1/8"	9 7/8"	12 1/8"	13 1/2"
E (Test & Drain)	10"	10 1/4"	12 1/4"	14 3/4"	14 1/2"
F	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"
G	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
H	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"

* AVAILABLE WITH PRESSURE RELIEF OPTION

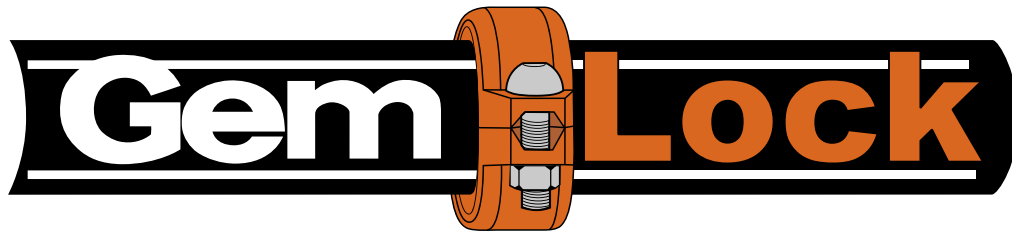
Body Size	2"	2.5"	3"	4"	6"
Ball Valve Size	1"	1.25"	1.25"	2"	2"
Test & Drain Size	1"	1.25"	1.25"	2"	2"

NOTE:

All tolerances (with exception of the grooves) plus or minus 1/4 of an inch.
 All Welds to be 1/4" fillet surface prep of body - SSPC-SP-7 finished with 2.5 mils
 Bengal Red TGIC/ Acrylic Epoxy powder coat, electrostatically applied.
 Commercial Riser can be installed vertically or horizontally



PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Data:			
Notes 1:			
Notes 2:			



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

www.gemlockgrooved.com

RESIDENTIAL RISER

Features:

- Lead Free stainless steel body construction with all brass trim
- Factory assembled
- Factory pressure tested at 200psi (13.8 bar)
- NPT (female x female) connections
- Slim design allows for easy installation
- Optimum sensitivity is assured through a dedicated FM approved/UL and ULC Listed Water Flow Detector
- Choice of 3 kinds of trim:

Basic Trim



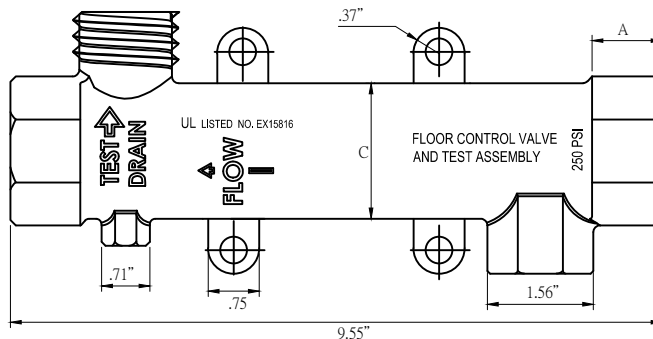
Basic Trim w/Test & Drain



Basic Trim w/Pressure Relief Kit



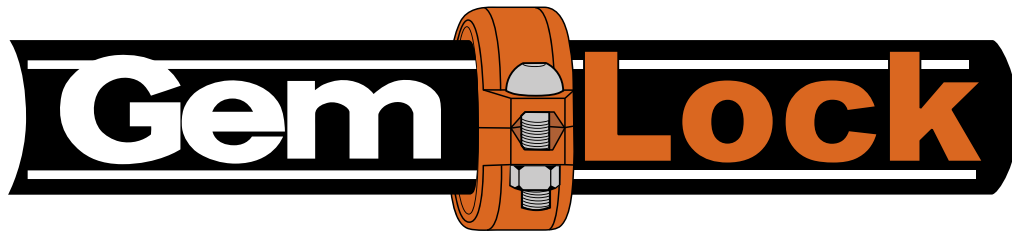
Size	Basic Trim	Basic Trim w/Test & Drain	Basic Trim w/Pressure Relief Kit
1"	650-375-00100	650-375-00280	650-375-00200
1¼"	650-375-00120	650-375-00740	650-375-00220
1½"	650-375-00160	650-375-00760	650-375-00240
2"	650-375-00180	650-375-00840	650-375-00260



Size	A
1"	.75"
1¼"	1.02"
1½"	1.02"
2"	1.02"

LANSDALE
INTERNATIONAL

PROJECT INFORMATION	APPROVAL STAMP
Project:	<input type="checkbox"/> Approved
Address:	<input type="checkbox"/> Approved as noted
Contractor:	<input type="checkbox"/> Not approved
Engineer:	Remarks:
Submittal Data:	
Notes 1:	
Notes 2:	



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

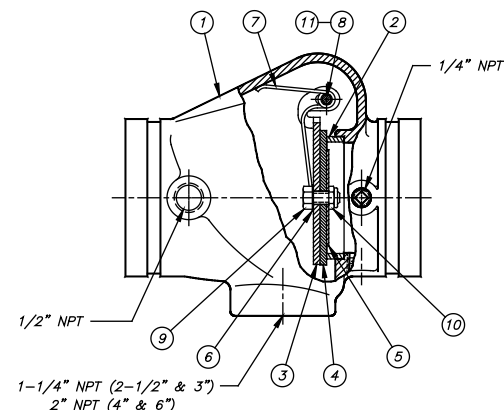
www.gemlockgrooved.com

RISER CHECK VALVE ASSEMBLY

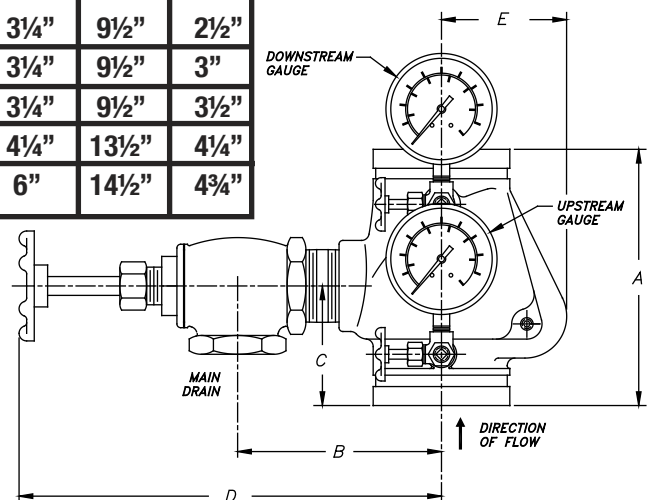
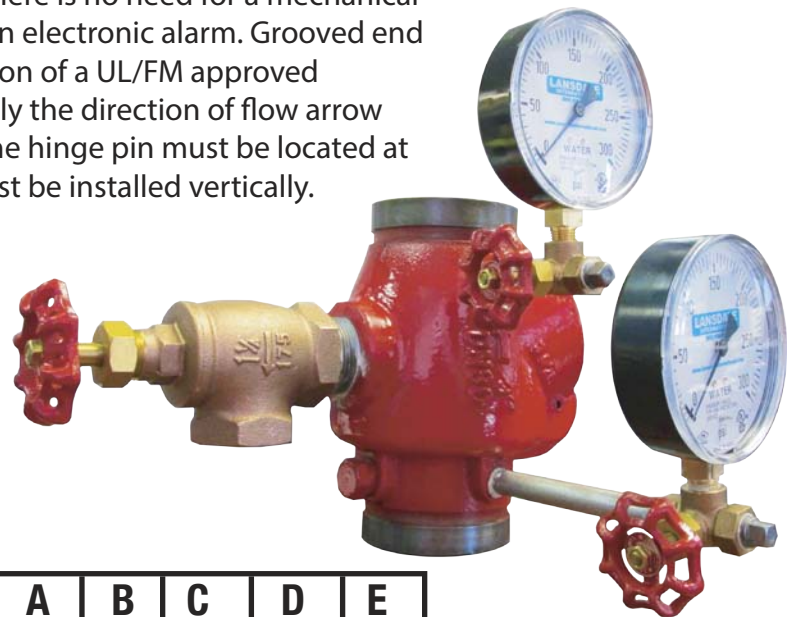
"Shotgun Riser"

Lansdale Riser Check Valve Assemblies are intended for use in wet pipe fire protection systems, as well as preaction systems where there is no need for a mechanical alarm. The use of a waterflow switch can provide an electronic alarm. Grooved end connections provide fast and economical installation of a UL/FM approved coupling, such as Gemlock. When installed vertically the direction of flow arrow should point upward. For horizontal installation, the hinge pin must be located at the top. If used in a preaction system the valve must be installed vertically. Rated for 200 PSI.

MATERIAL LIST	
1	Valve Body Gray Iron, ASTM-A48 Class 30A
2	Seat Bronze C83600 or C93200, ASTM-B505
3	Clapper Stainless Steel 304, ASTM-A240
4	Facing Seal ** EPDM Rubber
5	Clamping Ring Stainless Steel 304, ASTM-A240
6	Gasket ** EPDM Rubber
7	Spring Stainless Steel 302, ASTM-A313
8	Hinge Pin Stainless Steel 303, ASTM-A582
9	Bolt Stainless Steel 304, ASTM-F593
10	Locknut ** Stainless Steel 303, ASTM-F594
11	Plug, 1/2"NPT Steel



SIZE	A	B	C	D	E
2"	6.65"	5"	3 1/4"	9 1/2"	2 1/2"
2 1/2"	7"	5"	3 1/4"	9 1/2"	3"
3"	8"	5"	3 1/4"	9 1/2"	3 1/2"
4"	8 3/4"	7"	4 1/4"	13 1/2"	4 1/4"
6"	10 3/4"	8"	6"	14 1/2"	4 3/4"



PROJECT INFORMATION	APPROVAL STAMP
Project:	<input type="checkbox"/> Approved
Address:	<input type="checkbox"/> Approved as noted
Contractor:	<input type="checkbox"/> Not approved
Engineer:	Remarks:
Submittal Data:	
Notes 1:	
Notes 2:	