GemLock

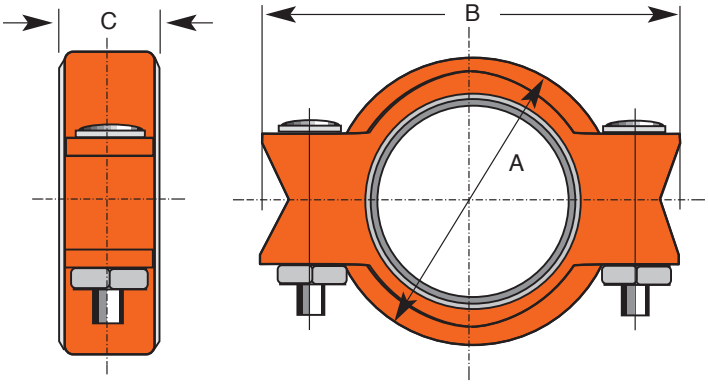
60 Cohoes Ave. Green Island, NY 12183 • www.gemlockgrooved.com • Ph: (518) 270-2159 • Fax: (518) 270-8384

REDUCING COUPLING

STYLE 25

- Replaces two couplings and in-line reducer (concentric or eccentric)
- Available with hot dipped galvanized coating
- Provided with EPDM gasket suitable to 230°F
- Made from ductile iron conforming to ASTM A536
- Supplied with steel insert for ease of installation

UL Listed
Under File No. EX15592



HEAD LOSS				
Size (In.)	Flow Reducing		Flow Expanding	
	C_L Value	Equivalent Pipe Length (Smaller Dia.)	C_L 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 2-1/2	0.30	3.8 ft	0.19	2.5 ft
3 x 2	0.50	5.5 ft	0.30	3.5 ft
2-1/2 x 2	0.18	1.9 ft	0.09	1.0 ft
2 x 1-1/2	0.25	1.9 ft	0.23	2.0 ft

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

H_L = Head Loss in feet

V = Velocity in smaller pipe in feet/sec.

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

Pipe Nominal Size (In.)	Max. Working Pressure (psi)	Allow Pipe End Separation (In.)	Max. Deduction from Center Line		Dimensions (In.)			Approx. Weight Each (Lb.)
			Per Coup Deg.	Pipe (In.)	A	B	C	
1-1/2 x 1-1/4	300	0.12	1°-53'	0.4	2.88	4.55	1.77	1.75
2 x 1-1/4	300	0.12	1°-53'	0.4	3.543	5.079	1.85	1.88
2 x 1-1/2	300	0.12	1°-33'	0.4	3.543	5.079	1.85	1.95
2-1/2 x 2	300	0.12	1°-33'	0.32	3.976	5.394	1.8	2.50
3 x 2	300	0.12	1°-17'	0.26	4.724	6.45	1.89	3.64
3 x 2-1/2	300	0.12	1°-17'	0.26	4.72	6.457	1.89	3.27
4 x 2	300	0.25	2°-38'	0.55	5.906	7.677	1.929	4.74
4 x 2-1/2	300	0.25	2°-38'	0.55	5.906	7.677	1.929	4.55
4 x 3	300	0.25	2°-38'	0.55	5.906	7.677	1.929	4.16
5 x 4	300	0.25	2°-5'	0.44	6.969	8.74	1.909	6.65
6 x 4	300	0.25	1°-44'	0.38	7.992	9.252	1.969	8.16
8 x 6	300	0.25	1°-15'	0.26	10.394	12.32	2.362	15.15

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	APPROVAL STAMP
PROJECT:	☐ APPROVED
ADDRESS:	☐ APPROVED AS NOTED
ENGINEER:	☐ NOT APPROVED
SUBMITTAL DATA:	REMARKS:
NOTES 1:	
NOTES 2:	