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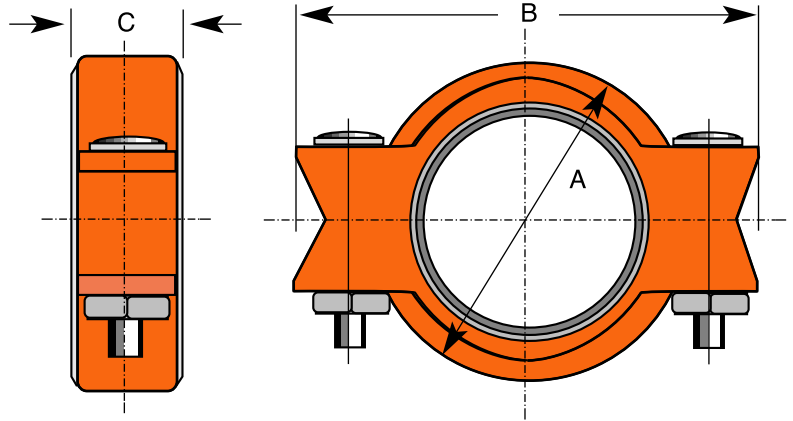
www.gemlockgrooved.com

## 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.) <sup>§</sup>	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:			