



Bell-Lock™

Serrated Joint Restraints

FOR DUCTILE IRON PIPE AND PVC PIPE

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IMPORTANT LINKS

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Description:

A serrated restraint used for restraining bell-and-spigot joints on PVC or Ductile Iron.

Application:

Restraining (holding) bell-and-spigot joints.

Key Features:

- Designs deliver almost 360° of engagement (grip)
- Comes in several bolt configurations
- Recessed shoulders promote single wrench installations
- Maintains full pipe deflection
- Can adapt to new and/or existing pipeline applications
- Easily installs outside the trench

Materials Specifications (subject to change):

GLAND: 65-45-12 Ductile Iron (ASTM A536)

RODS: High strength, low alloy or alloy Steel meeting ASTM A193 GRB7. *Optional: 304 Stainless Steel Hardware*

CLAMPING BOLTS: SAE Grade 5, ASTM A449 Type 1, or approved equivalent

FINISH: Shop Coat

Pipe Applications: Ductile Iron and PVC

Sizes:

DUCTILE IRON: 4, 6, 8, 10, 12, 14, 16

PVC: 4, 6, 8, 10, 12, 14, 16, 18, 20, 24

Pressure Ratings on Ductile Iron:

ANSI/AWWA C151 DI OD

4"-6" 350 PSI

8" 300 PSI

10" 250 PSI

12" 200 PSI

14" 150 PSI

16" 100 PSI

Pressure Ratings on PVC:

ANSI/AWWA C905 CI OD

DR 14 200 PSI

DR 18 150 PSI

DR 25 100 PSI

ANSI/AWWA C905 CI OD

DR 18 235 PSI

DR 21 200 PSI

DR 25 165 PSI

DR 32.5 125 PSI

ASTM D2241

SDR 17 250 PSI

SDR 21 200 PSI

SDR 26 160 PSI



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For Bell and Spigot Joints (Two restraints with rods)

NOMINAL SIZE INCHES	PIPE O.D. INCHES	DUCTILE IRON SIZE PIPE		PIPE O.D. INCHES	IPS SIZE PIPE	
		CATALOG NUMBER BOXED	WT. EACH LBS.		CATALOG NUMBER BOXED	WT. EACH LBS.
4	4.80	165-04800000-000	15.60	4.50	165-04500000-000	16.60
6	6.90	165-06900000-000	20.30	6.63	165-06630000-000	22.10
8	9.05	165-09050000-000	31.00	8.63	165-08630000-000	34.60
10	11.10	165-11100000-000	52.10	10.75	165-10750000-000	56.70
12	13.20	165-13200000-000	56.30	12.75	165-12750000-000	62.70
14*	15.30	165-15300000-000	123.00			
16*	17.40	165-17400000-000	133.70			
18*	19.50	165-19500000-000	175.60			
20*	21.60	165-21600000-000	201.30			
24*	25.80	165-25800000-000	265.80			

Suitable Bell-Lock applications for PVC are limited to SDR 26 or heavier wall pipe, as defined by ASTM D2241. Pressure ratings are for ordinary waterworks with transient surges only. Bell-Locks larger than 16" are not recommended for use on Ductile Iron pipe. Standard safety factor (SF) is 2:1. SF is derated on 10" and 12" push-on type fittings which will not accommodate all of the restraining T-Bolts.