



Bell-Lock™

Serrated Joint Restraints

FOR DUCTILE IRON PIPE AND PVC PIPE

115

IMPORTANT LINKS

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Description:

A serrated restraint used for MJ, push-on type fittings and bell-and-spigot joints.

Application:

For restraining pipe bells, and MJ fittings.

Key Features:

- Recessed shoulders allow for single wrench installation
- Compatible with standard mechanical joint and some push-on style fittings
- Maintains full pipe deflection
- 360° of pipe support provided - uncompromised restraint
- Adaptable for new and/or existing pipeline applications
- Easily installs outside the trench
- Eliminates need for costly concrete thrust blocks

Materials Specifications (subject to change):

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

T-BOLTS & HEX NUTS: High strength, low alloy

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

FINISH: Shop Coat

Pipe Applications: Ductile Iron, PVC

Sizes (in inches): 4, 6, 8, 10, 12, 14, 16, 18, 20, 24

Pressure Ratings: Rated at the pressure of the PVC pipe it is used on up to 250 PSI



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For MJ Fittings and Push-On Joints (One Restraint and T-Bolt)

NOMINAL SIZE INCHES	DUCTILE IRON SIZE PIPE			IPS SIZE PIPE		
	PIPE O.D. INCHES	CATALOG NUMBER BOXED	WT. EACH LBS.	PIPE O.D. INCHES	CATALOG NUMBER BOXED	WT. EACH LBS.
4	4.80	115-04800000-000	7.80	4.50	115-04500000-000	8.30
6	6.90	115-06900000-000	10.20	6.63	115-06630000-000	11.10
8	9.05	115-09050000-000	15.50	8.63	115-08630000-000	17.30
10	11.10	115-11100000-000	25.50	10.75	115-10750000-000	27.80
12	13.20	115-13200000-000	27.60	12.75	115-12750000-000	30.80
14*	15.30	115-15300000-000	63.10			
16*	17.40	115-17400000-000	8.50			
18*	19.50	115-19500000-000	90.00			
20*	21.60	115-21600000-000	100.60			
24*	25.80	115-25800000-000	132.90			

*Bolts in sizes 14"-24" are all-thread instead of t-bolts. Suitable Bell-Lock applications for PVC are limited to SDR 26 or heavier wall pipe, as defined by ASTM D2241.

Pressure Ratings for PVC

ANSI/AWWA C900 DI OD		ANSI/AWWA C905 CI OD		ASTM D2241 IPS / Steel OD	
DR 14	200	DR 18	235	SDR 17	250
DR 18	150	DR 21	200	SDR 21	200
DR 25	100	DR 25	165	SDR 26	160
-	-	DR 32.5	125	-	-

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. Suitable Bell-Lock applications for PVC are limited to SDR 26 or heavier wall pipe, as defined by ASTM D2241.

Pressure Ratings for Ductile Iron Series 136 not for 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