

Pipe Restrainers series 1000C & 1100C

1000C & 1100C For Use On Ductile Iron Pipe



SUBMITTAL INFORMATION	
PROJECT NAME:	
ENGINEER:	
CONTRACTOR:	
SPEC. SECTION:	





FEATURES & ADVANTAGES

- Restrainers work with Mechanical Joint Fittings, Push-On Fittings, and Pipe-to-Pipe connections. Ductile iron pipe to be manufactured in accordance with ANSI/AWWA C151/A21.51.
- All restrainers are machined to exact tolerances
- Maintains full deflection on Mechanical Joint and Push-On Fittings
- Clamping Bolts: SAE J429 Grade 5

MATERIAL SPECIFICATIONS:

• Restrainer Castings: Ductile Iron per ASTM A536, Grade 65-45-12

PIPE RESTRAINER OPTIONS (Please check one):

SERIES 1000C (For use on Ductile Iron Pipe) SERIES 1100C (For use on Ductile Iron Pipe)

RESTRAINER CASTINGS FINISH OPTIONS (Please check one):

Standard: alkyd enamel coating

Optional: StarbondTM TGIC polyester powder coating applied by an electrostatic spray process

Optional: Other (specify)

COUNTRY OF ORIGIN OPTION (Please check one):

Import

Domestic - AIS Compliant

HARDWARE OPTIONS (Please check one):

STANDARD:

- Clamp Bolt: SAE J429 Grade 5
- Clamp Nut: SAE J995 Grade 2 or ASTM A563 Grade "A" or "B"
- Restraint Bolt/Rod/Nut: High strength low alloy steel per ANSI/ AWWA C111/A21.11
- Washer: carbon steel per ASTM F844

OPTIONAL SS ALLOY 304:

- Clamp Bolt: SS alloy 304 per ASTM A193 Grade B8, Class 2
- Clamp Nut: SS alloy 304 per ASTM A194 Grade 8, S1
- Restraint Bolt/Rod: SS alloy 304 per ASTM F593 CW
- Restraint Nut: SS alloy 304 per ASTM F594 CW
- Washer: SS alloy 304

OPTIONAL SS ALLOY 316:

- Clamp Bolt: SS alloy 316 per ASTM A193 Grade B8M, Class 2
- Clamp Nut: SS alloy 316 per ASTM A194 Grade 8M, S1
- Restraint Bolt/Rod: SS alloy 316 per ASTM F593 CW
- Restraint Nut: SS alloy 316 per ASTM A194 Grade 8M
- Washer: SS alloy 316

OPTIONAL STAR BLUE:

- Clamp Bolt: Fluoropolymer Star Blue coated SAE J429 Grade 5
- Clamp Nut: Fluoropolymer Star Blue coated SAE J995 Grade 2 or ASTM A563 Grade "A" or "B'
- Restraint Bolt/Rod/Nut: Fluoropolymer Star Blue coated high strength low alloy steel per ANSI/AWWA C111/A21.11
- Washer: Fluoropolymer Star Blue coated carbon steel per ASTM F844



TÜVRheinland

Certified to ISO 9001:2015

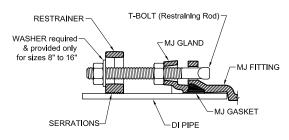




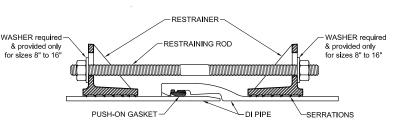
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TECHNICAL INFORMATION



Series 1000C 4"-16" Sizes with MJ Fittings



Series 1100C 4"-16" Sizes for Pipe to Pipe

Please check sizes:

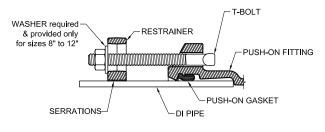
(DI Pipe to MJ Fitting)				
NOMINAL SIZE	MAXIMUM PRESSURE RATINGS (PSI)	CLAMP BOLT TORQUE (FT-LBS)		
4"	250	110 - 120		
6"	250	110 - 120		
8"	250	110 - 120		
10"	200	110 - 120		
12"	200	110 - 120		
14"	150	200 - 210		
16"	100	200 - 210		

SERIES 1000C

Please
check sizes:
check sizes.

(for Pipe-to-Pipe)		
NOMINAL SIZE	MAXIMUM PRESSURE RATINGS (PSI)	CLAMP BOLT TORQUE (FT-LBS)
4"	250	110 - 120
6"	250	110 - 120
8"	250	110 - 120
10"	200	110 - 120
12"	200	110 - 120
14"	150	200-210
16"	100	200-210

SERIES 1100C



Series 1000C 4"-12" Sizes with Push-On Fittings

Please check sizes:

(DI	SERIES 1000C (DI Pipe to Push-On Fitting)		
NOMINAL SIZE	MAXIMUM PRESSURE RATINGS (PSI)	CLAMP BOLT TORQUE (FT-LBS)	
4"	250	110 - 120	
6"	250	110 - 120	
8"	250	110 - 120	
10"	100	110 - 120	
12"	100	110 - 120	