



# Pipe Restrainers series 1200G2

1200G2C Restrainers for C900/C909 PVC/PVCO Pipe and PVC Pressure Fittings w/Ductile Iron Pipe OD (Formerly Series 9200)



1200G2C Restrainers for C900/C909 PVC Pipe with C907 Fitting Bell

### SUBMITTAL INFORMATION

PROJECT NAME:

ENGINEER:

CONTRACTOR:

SPEC. SECTION:



### FEATURES & ADVANTAGES

- 360° contact, no pipe distortion or point loading
- Made of Ductile Iron - ASTM Grade 536, Grade 65-45-12
- Restrainers work with either
  - PC235 psi molded AWWA C907 PVC pressure fittings or
  - PR235 psi fabricated PVC pressure fittings.
- All restrainers are machined to exact tolerances.
- The safety factor is twice (2:1) the maximum pressure rating listed on next page.
- Supports wall of pipe with 360 degree contact
- Can be installed outside the trench, to ease installation
- T-Bolts/Rods/Hex Nuts: low alloy steel per ANSI/AWWA C111/A21.11
- Clamping Bolts: SAE J429 Grade5
- Standard gland color is Graphite Black (RAL 9011).
- Originally introduced as the 9200, this improved design (Gen 2) provides increased performance and is rated to the new, higher pressure classes in latest editions of AWWA C900 and C909 (see table on next page).



1200G2C Restraint

### MATERIAL SPECIFICATIONS:

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

### RESTRAINT CASTINGS FINISH OPTIONS (Please check one):

- Standard: alkyd enamel coating
- Optional: Starbond™ TGIC polyester powder coating applied by an electrostatic spray process
- Optional: Other (specify) \_\_\_\_\_

### HARDWARE OPTIONS (Please check one):

- Standard: T-bolts, rods and nuts are high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11-00
- Optional: T-bolts, rods and nuts are alloy SS 304 per ASTM F593
- Optional: T-bolts, rods and nuts are alloy SS 316 per ASTM F593
- Optional: T-bolts, rods and nuts are Fluoropolymer Star-Blue coated high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11-00



STAR® PIPE PRODUCTS

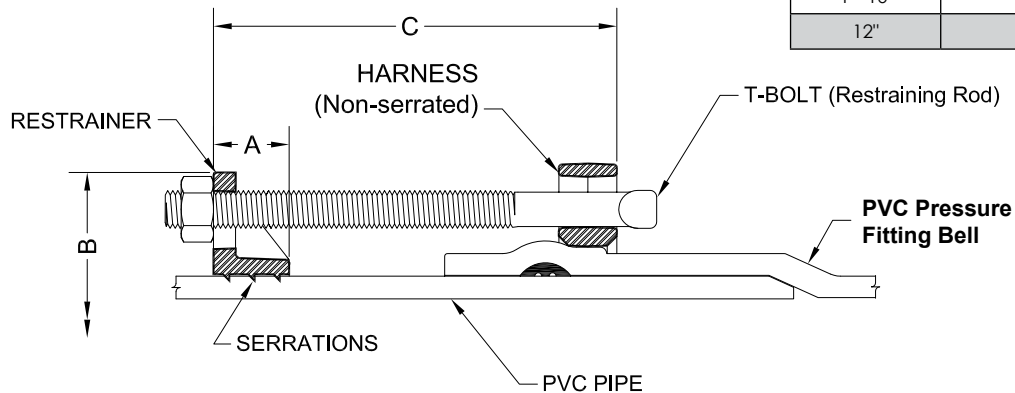


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## TECHNICAL INFORMATION

NOMINAL SIZE	RECOMMENDED CLAMP BOLT TORQUE (FT-LBS)
4" - 10"	100
12"	130



4" - 12" SIZES

PIPE RESTRAINERS 1200G2C SPECIFICATIONS*									
NOM. SIZE	PVC/PVCO PIPE WITH DUCTILE IRON PIPE O.D. STYLE 1200G2C O.D.	A	B APPROX.	C MAX.	RESTRAINT BOLTS/RODS		CLAMPING BOLTS		APPROX WT. (LBS)
					QTY	SIZE	QTY	SIZE	
4	4.80	1.44	9.32	8.00	2	3/4 x 9	4	5/8 x 3-1/2	13.58
6	6.90	1.50	11.26	8.00	2	3/4 x 9	4	5/8 x 3-1/2	16.84
8	9.05	2.00	14.76	11.00	2	3/4 x 12	4	3/4 x 4	28.28
10	11.10	2.38	17.26	11.00	4	3/4 x 12	4	7/8 x 5	43.10
12	13.20	2.38	20.00	11.00	4	3/4 x 12	4	7/8 x 5	54.38

Please check sizes:

\* All dimensions in inches except where indicated.

MAXIMUM WORKING PRESSURE RATING WITH OCCASSIONAL & RECURRING SURGES				
NOM. SIZE (IN)	C900			C909
	DR14+	DR18	DR25	PC 235
4	235	235	165	235
6	235	235	165	235
8	235	235	165	235
10	235	235	165	235
12	235	235	165	175

+ Derated due to rating of PVC pressure fitting.

