



Pipe Restrainers series 9200

9200C Restrainers for C900/C909 PVC/PVCO Pipe and PVC Pressure Fittings w/Ductile Iron Pipe OD

NEW NAME; SAME GREAT PERFORMANCE

The 9200 was introduced in Canada first and has been well received. The product's better performance on AWWA C900 and C909 has resulted in this product becoming the company's new standard offering in 4" through 12". As the 1200 family is a widely recognized brand of pipe restraint, the 9200 has been renamed 1200G2. The 1200G2 is replacing the 1200C in sizes 12" and down for use on CI OD pipe.



Series 9100C for C900 PVC/C909 PVCO Pipe

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).



9200C 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

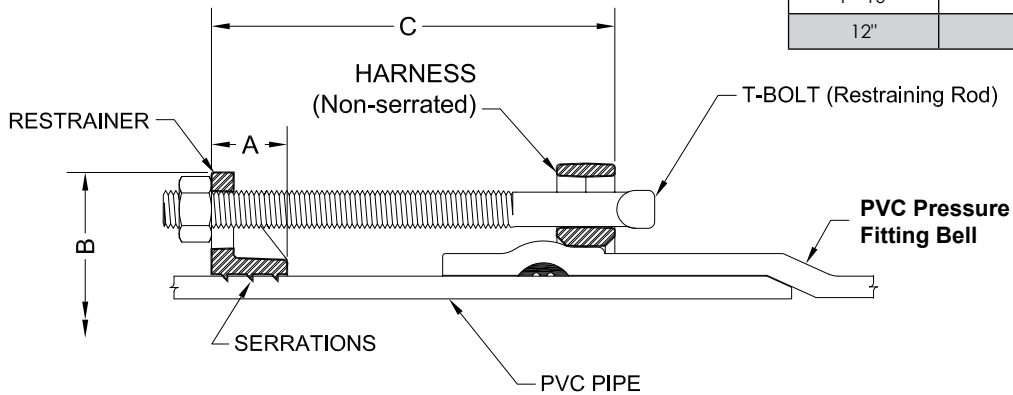


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TECHNICAL INFORMATION

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



4" - 12" SIZES

PIPE RESTRAINERS 9200 SPECIFICATIONS*									
NOM. SIZE ¹	PVC PIPE WITH DUCTILE IRON PIPE O.D. STYLE 9200C	A	B APPROX.	C MAX.	RESTRAINT BOLTS/RODS		CLAMPING BOLTS		APPROX WT. (LBS)
	O.D.				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	11.14	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.
 ** Contact Star for price and availability

NOM. SIZE (IN)	MAXIMUM WORKING PRESSURE RATING WITH OCCASIONAL & RECURRING SURGES			
	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.

