

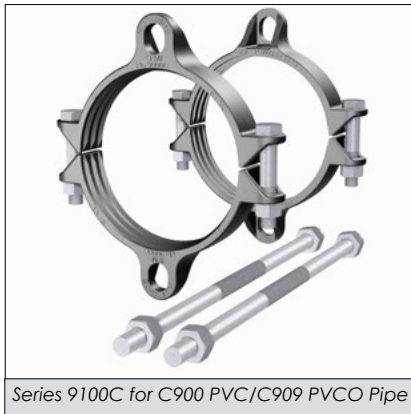


# Pipe Restrainers series 9100

9100C Bell Restrainers for AWWA CI OD C900/C909 PVC/PVCO Pipe Joints

### NEW NAME; SAME GREAT PERFORMANCE

The 9100 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 1100 family is a widely recognized brand of pipe restraint, the 9100 has been renamed 1100G2. The 1100G2 is replacing the 1100C 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 Push-On Pipe Bells.
- For use on 4" - 12" C900 PVC and C909 PVCO pipe.
- All restrainers are machined to exact tolerances.
- The safety factor is twice (2:1) the maximum pressure rating listed on next page.
- Can be installed outside the trench, to ease installation
- Rods/Hex Nuts: low alloy steel per ANSI/AWWA C111/A21.11
- Clamping Bolts: SAE J429 Grade 5
- Series 9100C is approved by Factory Mutual Research in sizes 4"- 12" for use on C900 PVC DR18 for 150 PSI.
- Standard color is Graphite Black (RAL 9011).

### 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):

Standard: Restraint rods and nuts are high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11-00

Optional: Restraint rods and nuts are alloy SS 304 per ASTM F593

Optional: Restraint rods and nuts are alloy SS 316 per ASTM F593

Optional: Restraint rods and nuts are Fluoropolymer Star-Blue coated high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11-00



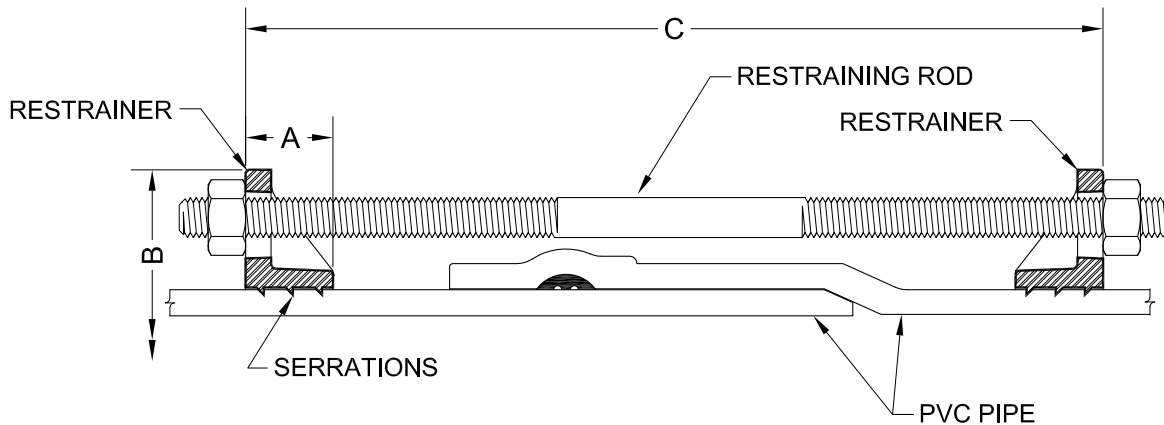
STAR® PIPE PRODUCTS



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## TECHNICAL INFORMATION



### 4" - 12" Sizes

PIPE RESTRAINERS 9100 SPECIFICATIONS*									
NOM. SIZE	PVC PIPE WITH DUCTILE IRON PIPE O.D. STYLE 9100C	A	B APPROX.	C MAX.	RESTRAINT RODS		CLAMPING BOLTS		APPROX WT. (LBS)
	O.D.				QTY	SIZE	QTY	SIZE	
4 **	4.80	1.44	9.32	15.00	2	3/4 x 17	4	5/8 x 3 1/2	12.63
6 **	6.90	1.50	11.14	15.00	2	3/4 x 17	4	5/8 x 3 1/2	14.35
8	9.05	2.00	14.76	22.00	2	3/4 x 24	4	3/4 x 4	27.45
10	11.10	2.38	17.26	22.00	4	3/4 x 24	4	7/8 x 5	48.21
12	13.20	2.38	20.00	22.00	4	3/4 x 24	4	7/8 x 5	56.57

Please check sizes:

\* All dimensions in inches except where indicated.  
 \*\* Contact Star for price and availability.

MAXIMUM WORKING PRESSURE RATING WITH OCCASSIONAL & RECURRING SURGES				
NOM. SIZE (IN)	C900			C909
	DR14	DR18	DR25	PC 235
4	305	235	165	235
6	305	235	165	235
8	305	235	165	235
10	305	235	165	235
12	305	235	165	235

