Dresser Piping Specialties

DRESSER®

Style 711
Bolted Restraining Couplings

The Coupling That Seals and Restrains!

Available in Straight or Reducing Couplings, Flanged Adapter and Line Cap Configurations

DRESSER® Style 711

Bolted Restraining Couplings…

- A bolted coupling that seals and restrains
- Makes reliable joints on any combination of Steel and P.E. pipe
- Also Available for Cast-to-Steel and Cast-to-P.E. applications
- Conductive and Insulating Designs

FAQ's on the Dresser Style 711 Coupling…

Why use a coupling that seals and restrains?

Ordinary mechanical couplings provide only a seal on the pipe end when installed. They don't prevent the pipe from pulling out of the coupling. The Style 711 coupling provides both a seal and restraint. As the coupling bolts are tightened, the coupling followers compress the gaskets and then force the steel grip rings to collapse around the pipe end, providing restraint. This gripping action actually increases as the pipe attempts to pull out of the coupling.

Why use a bolted coupling?

There's no need for special tools with the Style 711 bolted coupling. With minimal training, any workman can make consistent, reliable joints in your gas distribution system, using ordinary ratchet or torque wrenches.

Are insert stiffeners readily available?

Insert stiffeners for P.E. pipe in all SDR sizes commonly used in gas piping systems can be furnished by Dresser. Dresser pipe inserts are color-coded to assist with the identification of proper SDR .

What about cathodic protection?

The Style 711 coupling is supplied with AL-CLAD® epoxy coating as standard. Applied under rigidly controlled factory conditions, this coating offers a quality and integrity no field applied coating can match. Each coupling also comes with a connector, should you choose to use it, for fast, easy anode or lead wire connections.

What about code compliance requirements for the Style 711?

The Dresser® Style 711 coupling exceeds the requirements of D.O.T. Code 192.283(b), provided the proper Dresser reinforcing insert stiffener is used in the P.E. pipe end.

Why specify a conductive or insulating coupling design?

Conductive Couplings are used on lines that are to be electrically joined so as to share cathodic protection. Pipe to pipe continuity is assured with specially pinned Dresser® Armored® gaskets.

Insulating Couplings are used on lines that are to be electrically isolated (or sectionalized) for cathodic protection, or for insulating between pipe of dissimilar metals. This is accomplished by insulating one pipe end from the coupling and other pipe end.

A seal plus pipe restraint...

The unique patented combination of components on the compression end(s) of the 711 product design results in the gaskets' ability to provide a "pressure seal" prior to the metallic gripping mechanism locking the pipe against pull-out. This patented engineering breakthrough offers the capability of a **"seal plus pipe restraint"** pipe joint with minimal components.

The convenience of an assembled stab product, eliminating the disassembly of any components, assures that all of the components are properly installed. The singular tightening of the bolts, resulting in the sealing and locking of the pipe joint, eliminates additional add-ons and reduces the installation time for the workman.

Available Style 711 Configurations

The Style 711 bolted restraining coupling is available in the following configurations:

- **Straight couplings** for P.E. to P.E., P.E. to steel and steel to steel pipe; Insulating sizes 1-1/4"thru 8"; Conductive sizes 1-1/4" thru 12".
- **Reducing Couplings** for P.E. to P.E., P.E. to steel and steel to steel pipe; Insulating sizes 2"thru 8"; Conductive sizes 2" thru 8".
- **Reducing Couplings** for cast iron to steel and cast iron to P.E. pipe; Insulating sizes 3"thru 8"; Conductive sizes 3" thru 8".
- **Flanged Adapters** for connecting flanged end pipe to steel or P.E. pipe; conductive sizes 1-1/4" thru 12".
- **Line Caps** to cap deadends for future extensions; Insulating sizes 4" thru 8"; Conductive sizes 2" thru 12".

Sizes and Technical Specifications

Style 711 Line Cap or Flanged Adapter for Steel (IPS) and P.E. Pipe

PIPE SIZE NOM.	DIAMETER	PRODUCT RATINGS		P.E. PIPE PULLOUT RESISTANCE UP TO THE MAX. WALL LISTED MEETS OR EXCEEDS D.O.T. 192.283 (b)		WEIGHT PER UNIT LESS INSERT	
		MAX. SEALING PRESSURE	MAX. STEEL PIPE PULLOUT RESISTANCE	TYPE 2306/2406	TYPE 3406/3408	LINE CAP	F/A
1-1/4 2	1.660 2.375	150 psi 150 psi	2,500 lbs 6,300 lbs	SDR 10 SDR 9.3	SDR 9.3 SDR 9.3	9 13	11 15
3 4 6	3.500 4.500 6.625	150 psi 150 psi 150 psi	13,000 lbs 14,000 lbs 22,000 lbs	SDR 9.3 SDR 9.3 SDR 11	SDR 9.3 SDR 9.3 SDR 11	16 20 29	20 26 39
8 10 12 12	8.625 10.75 12.750 12.750	150 psi 150 psi 150 psi 150 psi	37,300 lbs 69,000 lbs 50,800 lbs 100,000 lbs	SDR 11 NA SDR 13.5 SDR 11	SDR 11 SDR 11 NA SDR 11	38 70 87 115	53 87 100 129

Style 711 Line Cap or Flanged Adapter for C.I.P.

PIPE SIZE NOM.	DIAMETER	PRODUCT RATINGS		WEIGHT PER UNIT LESS INSERT	
		MAX. SEALING PRESSURE	MAX. C.I. PIPE PULLOUT RESISTANCE	LINE CAP	F/A
4 6 8 12	4.800 6.900 9.050 13.200	50 psi 50 psi 50 psi 50 psi	11,000 lbs 21,000 lbs 37,300 lbs 100,000 lbs	24 33 43 145	31 37 51 155

NOTE 1: For wall thickness greater than the SDR listed, contact Dresser for recommendation. The pipe pull-out resistances shown are based upon using Dresser reinforcing pipe inserts.

NOTE 2: When used on steel or CIP, the joint must be considered a rigid connection.

DRESSER® Style 711 CONDUCTIVE Sizes & Specifications

Style 711 Reducing P.E. to P.E., P.E. to Steel, Steel to Steel (Conductive)

PIPE SIZE NOM.	DIAMETER	PRODUCT RATINGS		P.E. PIPE PULLOUT RESISTANCE UP TO THE MAX. WALL LISTED MEETS OR EXCEEDS D.O.T. 192.283 (b)		WEIGHT PER COUPLING LESS INSERT
		MAX. SEALING PRESSURE	MAX. STEEL PIPE PULLOUT RESISTANCE	TYPE 2306/2406	TYPE 3406/3408	
2 x 1-1/4 3 x 2	2.375/1.66 3.50/2.375	150 psi 150 psi	2,500 lbs 6,300 lbs	SDR 10 SDR 9.3	SDR 9.3 SDR 9.3	14 17.5
4 x 2 4 x 3	4.50/2.375 4.50/3.50	150 psi 150 psi	6,300 lbs 13,000 lbs	SDR 9.3 SDR 9.3	SDR 9.3 SDR 9.3	20.5 20.5
6 x 4	6.625/4.50	150 psi	14,000 lbs	SDR 9.3	SDR 9.3	38
8 x 6	8.625/6.625	150 psi	22,000 lbs	SDR 11	SDR 11	45

NOTE: For wall thickness greater than SDR listed, contact Dresser for recommendation. Pull-out resistance is based on using Dresser reinforcing pipe inserts.

Style 711 Cast to P.E., Cast to Steel (Conductive)

PIPE SIZE NOM.	DIAMETER	PRODUCT RATINGS		P.E. PIPE PULLOUT RESISTANCE UP TO THE MAX. WALL LISTED MEETS OR EXCEEDS D.O.T. 192.283 (b)		WEIGHT PER COUPLING WITH ONE INSERT
		MAX. SEALING PRESSURE	MAX. STEEL PIPE PULLOUT RESISTANCE	TYPE 2306/2406	TYPE 3406/3408	
4 x 2 4 x 3 4 x 4	4.800/2.375 4.800/3.500 4.800/4.500	150 psi 150 psi 150 psi	6,300 lbs 13,000 lbs 14,000 lbs	SDR 9.3 SDR 9.3 SDR 9.3	SDR 9.3 SDR 9.3 SDR 9.3	29 30 32
6 x 4 6 x 6	6.900/4.500 6.900/6.625	150 psi 150 psi	14,000 lbs 22,000 lbs	SDR 9.3 SDR 11	SDR 9.3 SDR 11	45 51
8 x 6 8 x 8	9.050/6.625 9.050/8.625	150 psi 150 psi	22,000 lbs 37,300 lbs	SDR 11 SDR 11	SDR 11 SDR 11	56 60

NOTE: For wall thickness greater than SDR listed, contact Dresser for recommendation. Pull-out resistance is based on using Dresser reinforcing pipe inserts.

Style 711 P.E. to P.E., P.E. to Steel, Steel to Steel (Conductive)

PIPE SIZE NOM.	DIAMETER	PRODUCT RATINGS		P.E. PIPE PULLOUT RESISTANCE UP TO THE MAX. WALL LISTED MEETS OR EXCEEDS D.O.T. 192.283 (b)		WEIGHT PER COUPLING LESS INSERT
		MAX. SEALING PRESSURE	MAX. STEEL PIPE PULLOUT RESISTANCE	TYPE 2306/2406	TYPE 3406/3408	
1-1/4 2	1.660 2.375	150 psi 150 psi	2,500 lbs 6,300 lbs	SDR 10 SDR 9.3	SDR 9.3 SDR 9.3	5.2 8.4
3 4 6	3.500 4.500 6.625	300 psi 300 psi 300 psi	13,000 lbs 14,000 lbs 22,000 lbs	SDR 9.3 SDR 9.3 SDR 11	SDR 9.3 SDR 9.3 SDR 11	16.2 25 38
8 10 12 12	8.625 10.750 12.750 12.750	150 psi 150 psi 150 psi 150 psi	37,300 lbs 69,000 lbs 50,800 lbs 100,000 lbs	SDR 11 NA SDR 13.5 SDR 11	SDR 11 SDR 11 N/A SDR 11	54 107 93 132

NOTE 1: For wall thickness greater than SDR listed, contact Dresser for recommendation. Pull-out resistance is based on using Dresser reinforcing pipe inserts.

NOTE 2: For all sizes and configurations, please refer to your Dresser Price List or contact your Dresser Representative.

Sizes & Specifications are Continued on Page 4

DRESSER® Style 711 INSULATING Sizes & Specifications

Style 711 Reducing P.E. to P.E., P.E. to Steel, Steel to Steel (Insulating)

PIPE SIZE NOM.	DIAMETER	PRODUCT RATINGS		P.E. PIPE PULLOUT RESISTANCE UP TO THE MAX. WALL LISTED MEETS OR EXCEEDS D.O.T. 192.283 (b)		WEIGHT PER COUPLING LESS INSERT
		MAX. SEALING PRESSURE	MAX. STEEL PIPE PULLOUT RESISTANCE	TYPE 2306/2406	TYPE 3406/3408	
2 x 1-1/4 3 x 2	2.375/1.66 3.50/2.375	150 psi 150 psi	2,500 lbs 6,300 lbs	SDR 10 SDR 9.3	SDR 9.3 SDR 9.3	14 17.5
4 x 2 4 x 3	4.50/2.375 4.50/3.50	150 psi 150 psi	6,300 lbs 13,000 lbs	SDR 9.3 SDR 9.3	SDR 9.3 SDR 9.3	20.5 20.5
6 x 4	6.625/4.50	150 psi	14,000 lbs	SDR 9.3	SDR 9.3	38
8 x 6	8.625/6.625	150 psi	22,000 lbs	SDR 11	SDR 11	45

NOTE: For wall thickness greater than SDR listed, contact Dresser for recommendation. Pull-out resistance is based on using Dresser reinforcing pipe inserts.

Style 711 Cast to P.E., Cast to Steel (Insulating)

PIPE SIZE NOM.	DIAMETER	PRODUCT RATINGS		P.E. PIPE PULLOUT RESISTANCE UP TO THE MAX. WALL LISTED MEETS OR EXCEEDS D.O.T. 192.283 (b)		WEIGHT PER COUPLING WITH ONE INSERT
		MAX. SEALING PRESSURE	MAX. STEEL PIPE PULLOUT RESISTANCE	TYPE 2306/2406	TTYPE 3406/3408	
3 x 3 3 x 3	3.80/3.500 3.96/3.500	50 psi 50 psi	13,000 lbs 13,000 lbs	SDR 9.3 SDR 9.3	SDR 9.3 SDR 9.3	28 38
4 x 2 4 x 3 4 x 4	4.800/2.375 4.800/3.500 4.800/4.500	50 psi 50 psi 50 psi	6,300 lbs 13,000 lbs 14,000 lbs	SDR 9.3 SDR 9.3 SDR 9.3	SDR 9.3 SDR 9.3 SDR 9.3	29 30 32
6 x 4 6 x 6	6.900/4.500 6.900/6.625	50 psi 50 psi	14,000 lbs 22,000 lbs	SDR 9.3 SDR 11	SDR 9.3 SDR 11	45 51
8 x 6 8 x 8 12 x 12	9.050/6.625 9.050/8.625 13.200/12.750	50 psi 50 psi 50 psi	22,000 lbs 37,300 lbs 100,000 lbs	SDR 11 SDR 11 NA	SDR 11 SDR 11 SDR 11	56 60 140

NOTE: For wall thickness greater than SDR listed, contact Dresser for recommendation. Pull-out resistance is based on using Dresser reinforcing pipe inserts.

Style 711 P.E. to P.E., P.E. to Steel, Steel to Steel (Insulating)

PIPE SIZE NOM.	DIAMETER	PRODUCT RATINGS		P.E. PIPE PULLOUT RESISTANCE UP TO THE MAX. WALL LISTED MEETS OR EXCEEDS D.O.T. 192.283 (b)		WEIGHT PER COUPLING LESS INSERT
		MAX. SEALING PRESSURE	MAX. STEEL PIPE PULLOUT RESISTANCE	TYPE 2306/2406	TYPE 3406/3408	
1-1/4 2	1.660 2.375	150 psi 150 psi	2,500 lbs 6,300 lbs	SDR 10 SDR 9.3	SDR 9.3 SDR 9.3	5.2 8.4
3 4	3.500 4.500	150 psi 150 psi	13,000 lbs 14,000 lbs	SDR 9.3 SDR 9.3	SDR 9.3 SDR 9.3	16.2 25
6 8	6.625 8.625	150 psi 150 psi	22,000 lbs 37,300 lbs	SDR 11 SDR 11	SDR 11 SDR 11	38 54

NOTE 1: For wall thickness greater than SDR listed, contact Dresser for recommendation. Pull-out resistance is based on using Dresser reinforcing pipe inserts.

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