

Style 90 Insulated Restraining Couplings

For Cathodic Protection on Seal & Restraining Steel to Steel and Steel to PE Pipe* Connections

The time-proven Dresser Style 90 Coupling now offered in an insulating version. This coupling can be used to make quick pipe joints when positive restraint AND electrical isolation are required. The Dresser Style 90 Insulated Restraining coupling joins steel to steel and steel to polyethylene pipes listed in ASTM D2513.

Installation is Quick, Easy...

Like the Style 90 fitting, the insulating coupling is easily installed using only a common pipe wrench. Pipe ends are stabbed without disassembling the coupling, thus reducing the risk of lost parts in the ditch. The Style 90 restraining couplings are rated for working pressures up to 150 PSI and a temperature range from -20 to +140°F.

Positive Pipe Restraint...

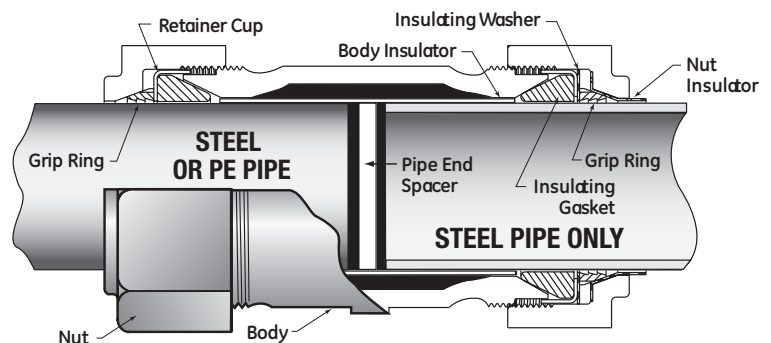
The Style 90 restraining design creates a positive pipe restraint. As the installer tightens the nut, the gasket is compressed and the grip ring engages the pipe end creating a strong grip. This gripping action increases as internal pressure, thermal contraction of the pipe or other forces attempt to pull the pipe out of the coupling. Pipe joints made in accordance with the Dresser Style 90 Insulated Restraining installation instructions meet or exceed the requirements of DOT 192.281(e).

Electrical Isolation...

Dresser Grade 41 gaskets and dielectric plastic components provide electrical isolation of the coupling from the pipe on which it is installed. These materials have been employed for many years in other Dresser natural gas products when electrical isolation is required.

Factory-applied Coatings...

Style 90 Insulated Restraining couplings can be supplied with E-Coat or Plastisol coating, which offers quality no field coating can approach. Anode connectors can also be supplied, when required, for additional corrosion control.



NOTE: These Style 90's are compliant to Category 1 requirements for plastic pipe joints. However, as shown in above illustration only steel pipe can be used on the Insulating End

Sizes and Configurations...

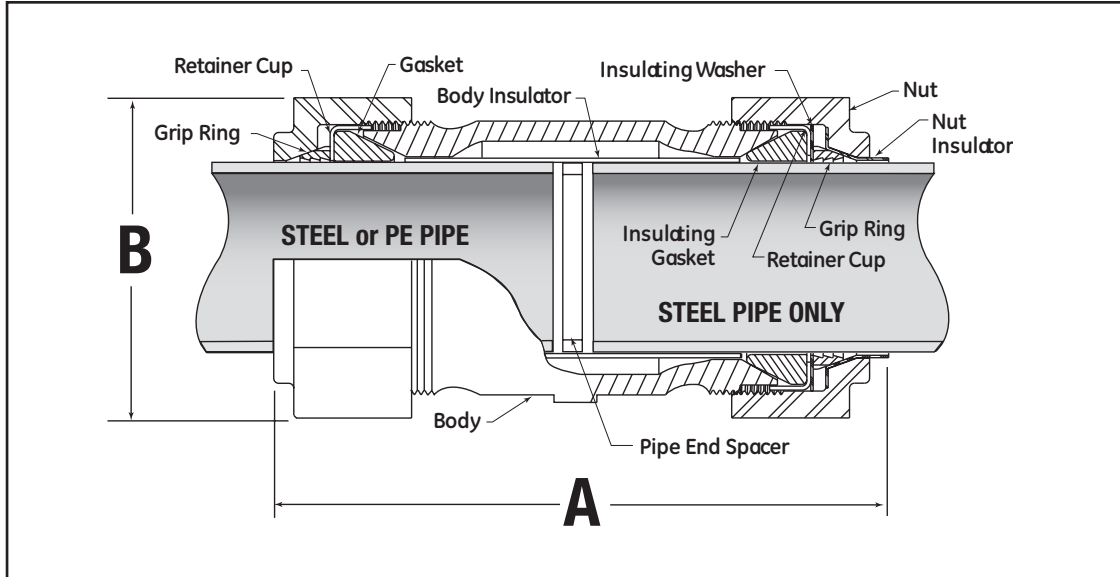
The Style 90 Insulated Restraining coupling is available in 3/4", 1", 1-1/4", 1-1/2" and 2" nominal IPS sizes. Dresser furnishes insert stiffeners in all SDR sizes commonly used in polyethylene piping systems. The insulating restraining end connection can also be supplied on reducing couplings, IPS by CTS transitions, service tees, valves and threaded adapters.

(See chart on back for size specifications)

*For use on Polyethylene Pipe as listed in ASTM D2513. Proper Dresser insert stiffener must be used.

Style 90 Insulating Restraining Couplings

Size Specifications 3/4" thru 2"



WARNING

You **MUST** mark and stab the pipe into the fitting to the proper stab depth. Failure to do so could result in escaping line content that could cause property damage, serious injury or death.

WARNING

Use proper insert in P.E. pipe end. Improper insert could result in escaping line content that could cause property damage, serious injury or death.

WARNING

Do not butt pipe ends in the coupling. Butted steel pipe ends will result in escaping gas that could ignite and cause property damage, serious injury or death.

Pipe Nominal Size (ID) (In.)	Outside Diameter (OD) (In.)	Dresser Part Number	Overall Length (A)	Overall Height (B)	Quantity Per Carton	Weight Per Carton
3/4"	1.050	0090-7677-632	7-1/16	2-7/32	20	58
1"	1.315	0090-7678-632	7-1/16	2-9/16	16	54
1-1/4"	1.660	0090-7679-632	7-1/16	3	14	57
1-1/2"	1.900	0090-7680-632	7-1/8	3-3/8	10	52
2"	2.375	0090-7681-632	7-1/4	4	6	42

Product Rating for restraining couplings with same pipe diameter on both ends

Pipe Size Nom.	Pipe Size O.D.	Max. Sealing Pressure*	Max. Steel Pipe Pullout Resistance	Polyethylene Pipe Pullout Resistance up to Max. wall listed in table meets or exceeds the requirements as specified in DOT 192.281 (e). Note 1	
				Type 2406/2708 PE 80	Type 3408/4710 PE 100
3/4"	1.050	150 PSI	1300 lbs.	SDR 11	Schedule 40
1"	1.315	150 PSI	2100 lbs.	SDR 11	SDR 9.3
1-1/4"	1.660	150 PSI	3200 lbs.	SDR 10	SDR 9.3
1-1/2"	1.900	150 PSI	3700 lbs.	SDR 11	SDR 11
2"	2.375	150 PSI	6600 lbs.	SDR 9.3	SDR 9.3

NOTE 1 - Pullout resistance is based on using Dresser reinforcing pipe inserts.

NOTE 2* - Unless noted on body.

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