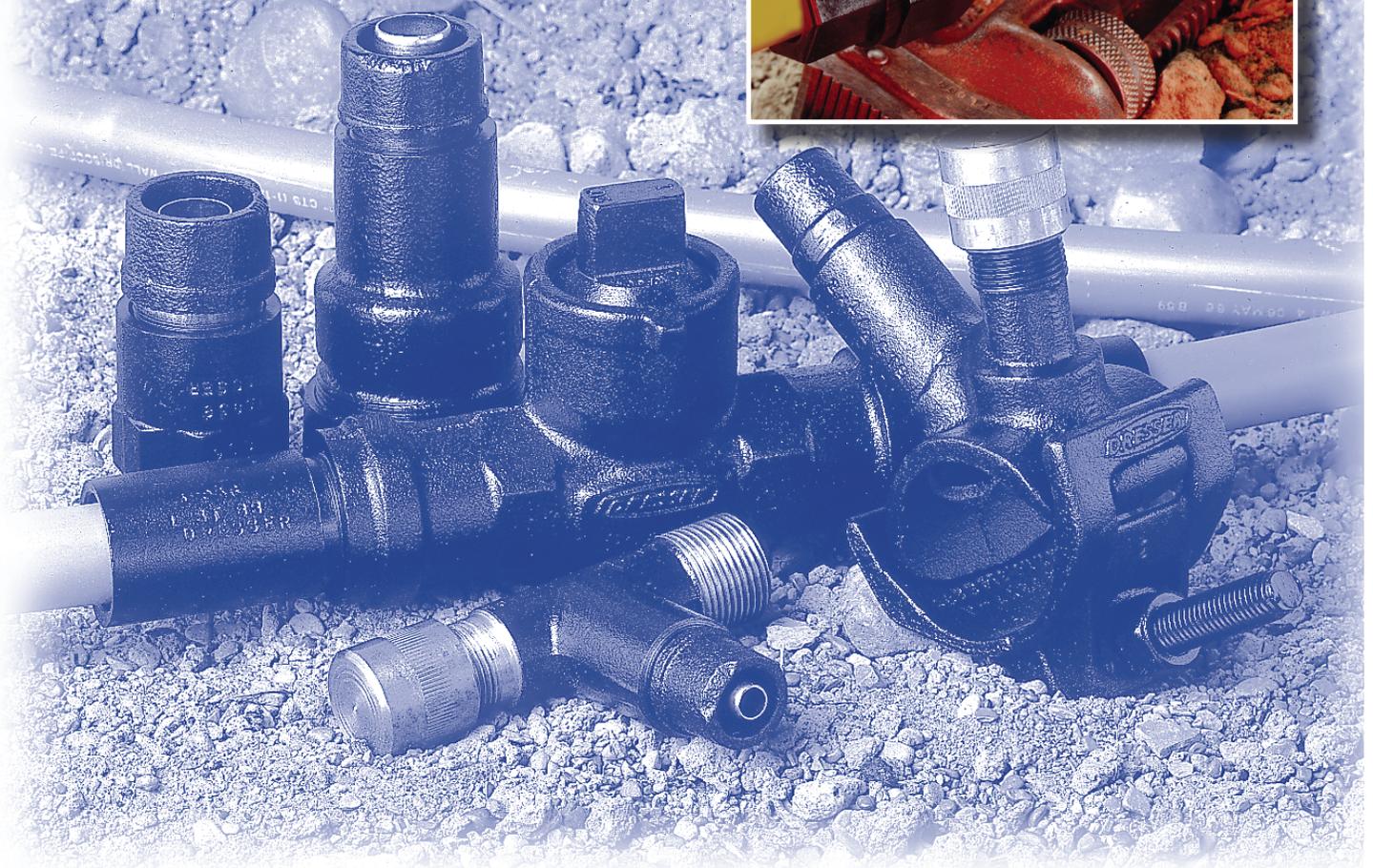


DRESSER SEAL-PLUS™

Seal & Restraining Compression Couplings & Fittings

Couplings, Fittings, Service Connectors,
Adapters and Line Caps for For PE to PE,
PE to Steel and PE to Copper Connections



Dresser SEAL-PLUS Couplings and Fittings are 100% compliant to
DOT 192.281(e)/ ASTM F1924 and F1948 Category 1 Regulations

Seal & Restraining Compression Coupling System

For PE to PE, PE to Steel and PE to Copper Connections

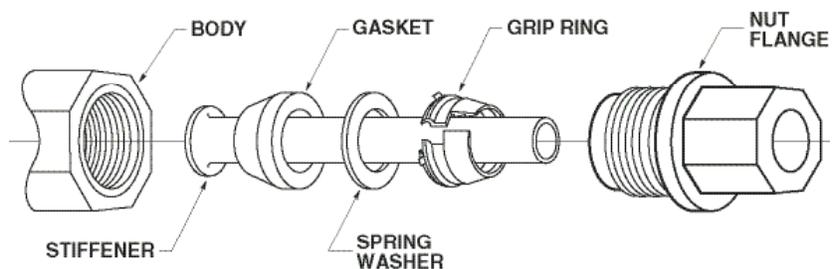
The design of the Dresser SEAL-PLUS restraining end delivers many proven features which contribute to both ease of installation and permanent, leak-free service. There's a proven wedge-shaped gasket, a Dresser benchmark for over 100 years. And a volume compensating spring washer that adjusts and maintains the gasket pressure, even at extremely low temperatures.

Visual verification of proper installation is attained through bottom-out tightening of the nut against the body. A color code on the insert verifies that it is properly sized for the wall thickness of the tubing on which it is being installed.

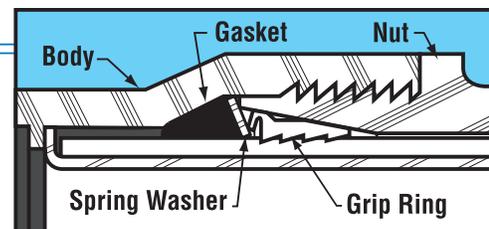
Of course, the SEAL-PLUS restraining end meets or exceeds all requirements of the applicable DOT codes for performance and safety.

The SEAL-PLUS Compression End Sealing Principle...

The exploded drawing below illustrates the SEAL-PLUS restraining end components in a typical Dresser Style 401 Coupling.



Cut-away drawing at right shows product components after tightening onto polyethylene pipe.



Check these features of SEAL-PLUS restraining ends...

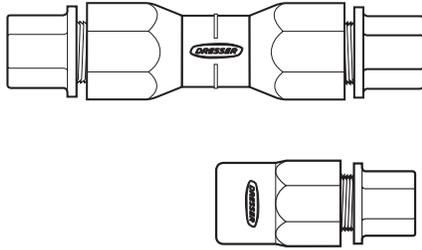
- A proven wedge-shaped gasket...a Dresser benchmark for over 100 years
- Common end assures uniform installation procedure for the entire product line...no need for additional training
- Mechanically loaded gasket pressure for a positive seal
- Volume compensating spring washer adjusts and maintains gasket pressure
- External grip on plastic...meets all DOT code requirements
- Bottom-out tightening provides a visual verification of proper installation...60 ft.lbs. adequate torque
- Simple, quick installation...easy stabbing at low temperatures
- Pressure and temperature ratings equal to the PE pipe



Dresser Utility Solutions reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation. Contact your Dresser sales representative for the most current information.

SEAL-PLUS™ restraining end is available in the following product styles

Style 401 Couplings & Line Caps



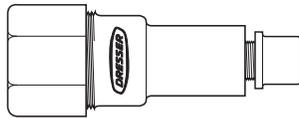
For PE to PE and PE to Copper service connections or repair of PE tubing

Dresser Style 401 couplings and fittings are ideal products for PE to PE and PE to copper natural gas piping connections. Simple and quick to install with ordinary pipe wrenches, they provide a totally dependable **seal and restraint** on both the PE and copper pipe ends.

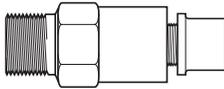
Style 401 couplings and fittings are designed for installation without disassembly. If an unsatisfactory joint is made, however, the fitting can be disassembled, the tubing recut, and the joint re-made. An added feature of the “401” coupling is its adaptability to use for “sleeving-in.” By removing the break-away pipe stops, the coupling can be slid back over one pipe end to facilitate installation of a cut-in section.

Style 501 Couplings & Fittings

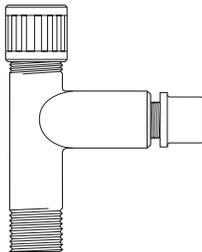
Reducing Couplings



Adapters



Service Tees



For joining PE service tubing to metallic pipe, fittings and service tees

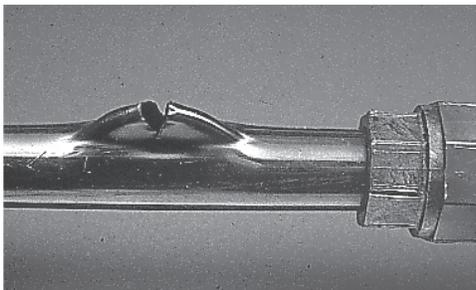
Dresser Style 501 products provide the ideal connection for those many transition points from metal pipe or piping components to PE service tubing. The Dresser family of Style 501 products include Steel x PE reducing couplings, male adapters, ells, and service tees.

Whether on new services from metallic mains or renewal services, whether making a connection at the main or service riser, nearly all the necessary transitions can be made using the same compression end and following the same installation procedures. Like the “401” coupling, the “501” can be disassembled, re-assembled, and the joint re-made, if necessary. Insert stiffeners are provided on the PE end. A color code on the insert verifies that it is properly sized for the wall thickness of the tubing on which it is being installed.

COLOR CODE	
Tubing Wall (Any Dia.)	Color
.062	Red
.077	Blue
.090	Silver
.099/.101/.103	Gold
.121	Black

Product Test Results

Shown below is the result of a “quick-burst” test on a Style 401 coupling; the pipe failed while the coupling continued to hold and seal.



NOTE: Always check insert stiffener to assure it is for wall thickness of tubing being used. (See color code chart at right)

The SEAL-PLUS™ Restraining Compression End product line has met the following test requirements:

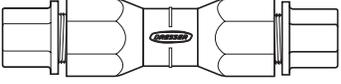
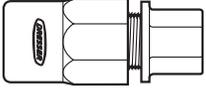
- Quick-burst
- Tensile
- Impact
- High and Low Temperature
- Sustained Pressure
- Dead Weight
- Conformance to ASTM and DOT Requirements (Certification)

SEAL-PLUS™ Product Configurations



Style 401 PE x PE and PE x Copper Service Connections*

Style 401 products listed below are fully compliant to DOT 192.281(e)/ ASTM F1924 Category 1

PRODUCT CONFIGURATION	SIZE (CTS)	OUTSIDE DIAMETER (OD)	PE Tubing Wall (In.)	PART NUMBER
 <p>Style 401 Coupling**</p>	1/2	5/8 X 5/8	0.090	04010006001
	1	1-1/8 X 1-1/8	0.090	04010014001
			0.099	04010015001
1-1/4	1-3/8 X 1-3/8	0.090	04010018001	
 <p>Style 401 Line Cap**</p>	1/2	5/8 x 5/8	0.090	04010081001
	1	1-1/8	0.090	04010090001
			0.099	04010089001
1-1/4	1-3/8	0.090	04010093001	

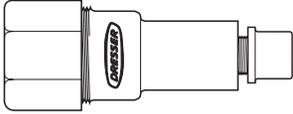
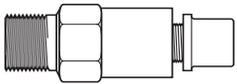
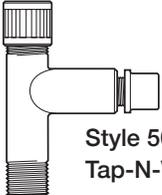
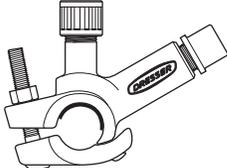
*INCLUDES INSERT FOR PE PIPE

Style 501 Compression x PE Transition Fittings

For Joining Steel Pipe to CTS Polyethylene Tubing

Style 501 products listed below are fully compliant to DOT 192.281(e)/ ASTM F1948 Category 1

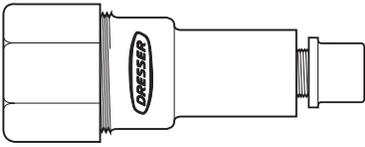
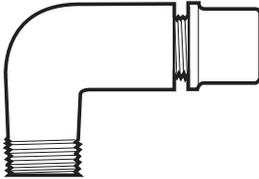
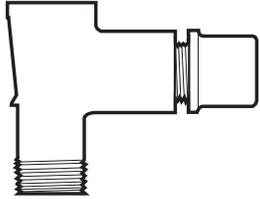
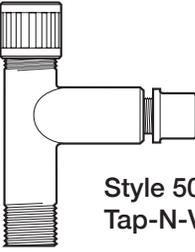


PRODUCT CONFIGURATION	Nom. Size	Description (5/8 OD)	PE Tubing Wall (In.)	PART NUMBER
 <p>Style 501 X 90 Compression Reducing Coupling*</p>	1/2"	3/4" IPS LOCK X 5/8 OD	0.090	05015602677
	1/2"	1" IPS LOCK X 5/8 OD	0.090	05015610677
	1/2"	1-1/4" IPS LOCK X 5/8 OD	0.090	05015618677
 <p>Style 501 Male Adapter*</p>	1/2"	3/4" MIPT X 5/8 OD	0.090	05010151005
	1/2"	1" MIPT X 5/8 OD	0.090	05010154005
 <p>Style 501 Tap-N-Valve Tee</p>	1/2"	3/4" WELD X 5/8 OD 3/8" TAPPING TOOL	0.090	05010130003
	1/2"	1" MIPT X 5/8 OD 3/8" TAPPING TOOL	0.090	05010104003
 <p>Style 501 Service Connector</p>	1/2"	2" ID X 5/8 OD 3/8" TAPPING TOOL	0.090	05010313015

Style 501 Compression x CTS PE Transition Fittings

For Joining Steel Pipe to CTS Polyethylene Tubing

Style 501 products listed below are fully compliant to DOT 192.281(e)/ ASTM F1948 Category 1

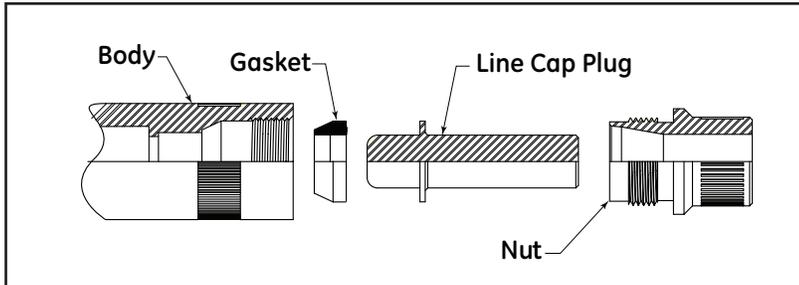
PRODUCT CONFIGURATION	Nom. Size	Description (1-1/8 OD)	PE Tubing Wall (In)	PART NUMBER
 <p>Style 501 x 90 Compression Reducing Coupling*</p>	1"	3/4" IPS LOCK X 1-1/8 OD	0.090	00905604677
	1"	3/4" IPS LOCK X 1-1/8 OD	0.099	00905605677
	1"	1" IPS LOCK X 1-1/8 OD	0.090	00905612677
	1"	1" IPS LOCK X 1-1/8 OD	0.099	00905613677
	1"	1-1/4" IPS LOCK X 1-1/8 OD	0.090	00905619677
	1"	1-1/4" IPS LOCK X 1-1/8 OD	0.099	00905620677
	1"	1-1/2" IPS LOCK X 1-1/8 OD	0.090	00905626677
	1"	1-1/2" IPS LOCK X 1-1/8 OD	0.099	00905627677
1"	2" IPS LOCK X 1-1/8 OD	0.099	00905636677	
 <p>Style 501 Threaded End 90-Degree Street Ell*</p>	1"	1" Plain-End X 1-1/8 OD	0.090	05010261005
	1"	1" Plain-End X 1-1/8 OD	0.099	05010262005
	1"	1" MIPT X 1-1/8 OD w/Shield Nut	0.090	05010261019
	1"	1" MIPT X 1-1/8 OD Brass	0.090	05010258012
	1"	1" MIPT X 1-1/8 OD Brass	0.099	05010259012
 <p>Style 501 90-Degree Street Tee*</p>	1"	1" FIPT X 1" MIPT X 1-1/8 OD	0.090	05010504005
	1"	1" FIPT X 1" MIPT X 1-1/8 OD w/Shield Nut	0.090	05010504019
	1"	1" FIPT X 1" MIPT X 1-1/8 OD	0.099	05010505005
	1"	1" FIPT X 1" MIPT X 1-1/8 OD	0.099	05010505019
 <p>Style 501 Tap-N-ValveTee*</p>	1"	3/4" WELD X 1-1/8 OD	0.090	05010134003
	1"	3/4" WELD X 1-1/8 OD	0.099	05010135003
	1"	1" MIPT X 1-1/8 OD	0.090	05010108003
	1"	1" MIPT X 1-1/8 OD 3/8" TAPPING TOOL	0.099	05010109003
<p>1-1/4" Nominal x 1-3/8 OD (1.375 Tubing) Reducing Couplings*</p> <p>90-Degree Plain-End Street Ell*</p>	1-1/4"	1-1/4" IPS LOCK X 1-3/8 OD	0.090	00905622677
	1-1/4"	1-1/2" ID X 1-3/8 OD	0.090	00905631677
	1-1/4"	2" IPS LOCK X 1-3/8 OD w/Anode Connector	0.090	00905649677
	1-1/4"	1-1/4" MIPS X 1-3/8 OD w/Shield Nut	0.090	05010269019

*INCLUDES INSERT FOR PE PIPE

Also Available...

Style 501 Line Cap Plugs

For use with Style 501 Couplings and Fittings (Consult factory for sizing specifications)



SPECIAL PRODUCT WARNINGS

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 gas that could ignite and cause property damage, serious injury or death.

WARNING

While Style 501 Line Cap Plug is restrained within the fitting body, pressure must NOT be applied to the line without proper anchorage or blocking sufficient to withstand the entire longitudinal thrust due to internal pressure at all joints of the capped line. Failure to do so could result in pullout at unrestrained joints, causing serious injury or death. Also, escaping line content could cause property damage, serious injury or death.

NOTE:

ALWAYS READ THE DRESSER INSTALLATION INSTRUCTIONS AND WARNINGS BEFORE INSTALLING ANY DRESSER PRODUCT!

Visit us at: www.dresserutility.com

Dresser Pipeline Solutions
41 Fisher Avenue
Bradford, PA 16701
T: 814.362.9300
F: 814.362.9344

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