

Risers and Transitions: Compression Risers

Since 1978, Georg Fischer Central Plastics has been providing the polyethylene piping industry with a line of steel compression fittings that offer a safe and simple method of connecting and transitioning PE pipe to steel pipe. Compression Risers offer the ability to transition PE piping from a below-ground application to an above-ground piping system. Compression fittings allow the user to connect and/or transition PE to steel without the need for fusion equipment.

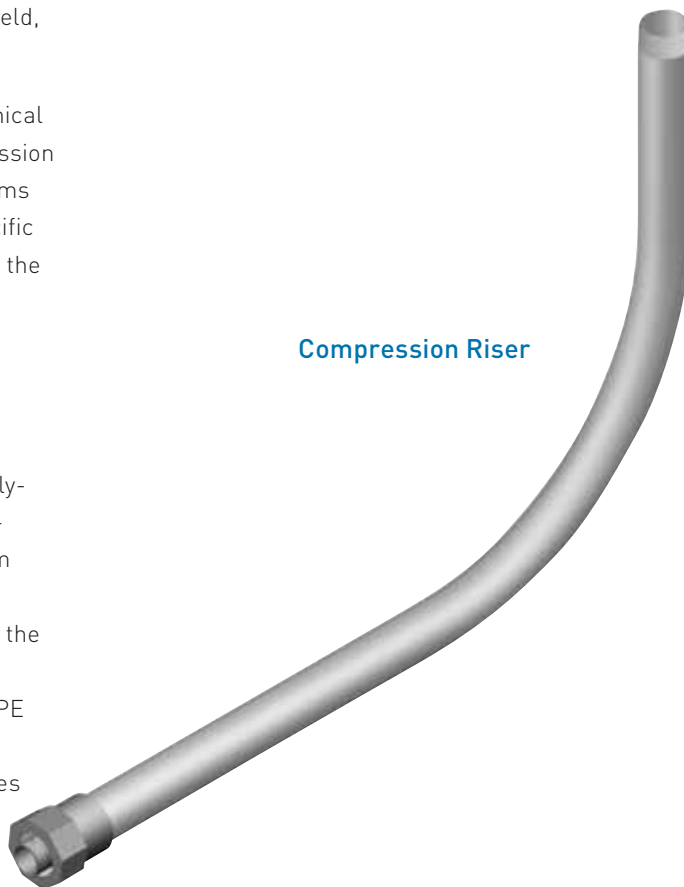
These fittings have been safely and effectively used in natural gas plumbing, pool and spa applications, oilfield, oil & gas gathering and LP FGs markets.

Proper installation of these fittings provide a mechanical joint that is stronger than the PE pipe itself. Compression Fittings can be selected from a group of standard items or can be manufactured to meet the customer's specific requirements. A wide variety of options ensures that the customers needs are fully met.

Features and Benefits

- One-piece design
- "Built-In" floating stiffener
- All products are protected with an electrostatically-applied fusion-bonded epoxy powder coating specifically designed for the exterior of gas petroleum pipelines.
- The steel-to-PE mechanical joint is stronger than the PE pipe
- PE pipe will fail prior to the failure of the steel to PE joint
- Can be supplied with anode connectors and anodes

Compression Riser



Risers and Transitions: Compression Risers (continued)

Available Options

- Custom Dimensions
 - Custom Vertical Range 15" to 52"
 - Custom Horizontal Range 15" to 40"
 - Inlet PE Pipe ½" CTS to 2" IPS
 - Outlet Steel Size ½" NPT to 4" NPT
- Other Options
 - Tracer Wire Connectors
 - Factory Installed Gas Valve
 - Shear Protection Sleeves
 - UV Protection Sleeves
 - Attached Anodes

Testing and Compliance

All Georg Fischer Central Plastics Compression Risers meet or exceed the following applicable standards and are subjected to an extensive testing program to ensure consistent performance in the field that is safe, robust and reliable.

Meets or Exceeds Applicable Standards

- DOT Code of Federal Regulations, Title 49, Part 192
- ASTM D2513 - Standard Specification for Thermoplastic gas pressure pipe, tubing, and fittings qualified Category 1 requirements
 - ASTM D1598 - Test Method for Time to Failure of plastic pipe under constant internal pressure (Sustained Pressure Test)
 - ASTM D1599 - Test Method for resistance to short term hydraulic pressure of plastic pipe, tubing and fittings (Quick Burst)
 - ASTM D638 - Test Method for Tensile Testing
- ASTM F1973 - Standard Specification for Factory Assembled Anodeless Risers and Transition Fittings.
 - ASTM E515 - Test Method for Leak Testing
 - ASTM D638 - Test Method for Tensile Testing
 - ASTM F1588 - Test Method Constant Tensile Load Test
 - ASTM F1973, 7.4 - Test Method for Temperature Cycling Test
- Complies with CSA B137.4
- Listed with IAPMO/UPC (where applicable)

Technical Specifications

- Steel gas carrier - ASTM A53 / API 5L
- Pipe threads - ANSI B1.20.1
- Compression gasket - ASTM D2000
- Protective coating

All parts are protected with an electrostatically applied fusion-bonded epoxy powder coating specifically designed for the exterior of gas petroleum pipelines.

- 8 mil minimum thickness
- AGA 49 grey
- Cathodic disbondment testing per ASTM G8
- Salt spray testing per ASTM B117
- Impact resistance testing per ASTM G14

Compression Risers



COMPRESSION RISERS

Size	Description	Part Number	Wt.	Box / Pallet
1/2" MPT x 1/2" IPS	24V x 36H	610505024000	4.66	10/140
3/4" MPT x 3/4" IPS	30V x 30H	10003247	5.80	8/112
3/4" MPT x 3/4" IPS	24V x 36H	610757524000	5.80	8/112
3/4" MPT x 3/4" IPS	36V x 24H	610757536000	5.80	8/112
1" MPT x 1" IPS	24V x 36H	610010124000	8.38	6/84
1" MPT x 1" IPS	30V x 30H	6100020	8.38	6/84
1" MPT x 1" IPS	36V x 24H	610010136000	8.38	6/84
1" MPT x 1 1/4" IPS	36V x 24H	610011236000	8.96	6/84
1 1/4" MPT x 1 1/4" IPS	24V x 36H	610121224000	11.35	5/70
1 1/4" MPT x 1 1/4" IPS	30V x 30H	10003254	11.35	5/70
1 1/4" MPT x 1 1/4" IPS	36V x 24H	610121236000	11.35	5/70
1 1/2" MPT x 1 1/2" IPS	24V x 36H	10002381	13.98	4/56
1 1/2" MPT x 1 1/2" IPS	30V x 30H	10003248	13.98	4/56
1 1/2" MPT x 1 1/2" IPS	36V x 24H	10002382	13.98	4/56
2" MPT x 2" IPS	24V x 36H	10002384	19.58	2/28
2" MPT x 2" IPS	30V x 30H	10003249	19.58	2/28
2" MPT x 2" IPS	36V x 24H	10002385	19.58	2/28

Sizes listed are standard stocking sizes.
 Sizes not listed can be furnished on request.

Compression Riser with Anodes



COMPRESSION RISERS w/ANODES

Size	Description	Part Number	Wt.	Box / Pallet
¾" MPT × ¾" IPS	DR11 24V × 36H	610757524004	8.01	6/84
¾" MPT × ¾" IPS	DR11 30V × 30H	6100063	7.83	6/84
1" MPT × 1" IPS	DR11 24V × 36H	610010124004	10.35	5/70
1" MPT × 1" IPS	DR11 30V × 30H	6100001	10.20	5/70
1" MPT × 1" IPS	DR11 36V × 24H	610010136004	10.20	5/70
1¼" MPT × 1¼" IPS	DR11 24V × 36H	610121224004	13.50	4/56
1¼" MPT × 1¼" IPS	DR11 30V × 30H	6100002	13.12	4/56
1¼" MPT × 1¼" IPS	DR11 36V × 24H	610121236004	13.50	4/56
1½" MPT × 1½" IPS	DR11 24V × 36H	10002383	15.08	2/28
2" MPT × 2" IPS	DR11 24V × 36H	10002386	21.60	2/28
2" MPT × 2" IPS	DR11 30V × 30H	10002387	21.60	2/28

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