Permasert® Mechanical Couplings ® Permasert ® elster





Elster Perfection

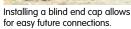
Permasert® Saves Time and Money

Increased competition in the energy market place is forcing natural gas utilities to monitor and evaluate all aspects of their cost structure.

Benefits

- Fast and easy installation. requires only one person.
- Total installed cost savings versus electrofusion and heat-fusion joined polyethylene.
- No special tools, costly installation equipment, or special training required to install.
- Smaller ditch required means lower excavation and restoration costs.
- Non-corrosive couplings eliminate the need for protective coatings and cathodic protection.
- Safe, dependable performance for over 30 years. More than 40 million installed worldwide.
- Minimal stress on PE tubing.
- Molded from industry leading PE4710/PE3408.
- Available in metric sizes.
- All weather installations.







Permasert outlets make connecting to valves and tees fast and easy.

Time Proven Products

Since its introduction, the Permasert Mechanical Coupling has become the number one polyethylene mechanical fitting in the world. In achieving and maintaining this valued leadership position, Elster Perfection has worked hard to earn the confidence of its customers. We're proud that with a 30-year track record and over 40 million Permasert couplings in use in every conceivable climate and soil condition, Permasert continues to deliver safe, reliable performance.

Saves Time and Money

One area of focus is the installation of new gas services and the repair of existing services. For this reason many utilities are re-evaluating their method of joining plastic pipe.

An ever increasing number of utilities, and their contractors, are arriving at the same conclusion...Permasert mechanical couplings offer significant total installed cost savings compared to alternate connection methods. Why? It's simple. Permasert takes one person only a few minutes to install...without any expensive equipment or extensive training. All you do is cut the PE piping, chamfer the end, mark the proper stab depth and insert the PE piping into the coupling. That's it. No torque requirements and no special tools. Fast, safe and easy...saving you time and money.

Easiest method for installation of EFVs into the service line.



Permasert couplings simplify repairing damaged service lines. for easy future connections.

Permasert® Mechanical Couplings

Connect with safety, integrity and speed. Connect with Elster Perfection.

Time Proven Products

Elster Perfection molds it's complete line of Permasert mechanical joining products from PE4710/PE3408. This resin shares many of the same properties as PE2406 and PE3408, while offering several significant performance enhancements. PE4710/PE3408 provides excellent resistance to Rapid Crack Propagation (RCP) and Slow Crack Growth (SCG). In fact, it is 20 and 60 times more resistant to SCG than typical PE2406 and PE3408. The resin also provides greater than 6,000 hours PENT (Pennsylvania Notch Test), which is 60 times the ASTM D 2513 requirement. In addition, PE4710 has a proven track record having been successfully used around the world for more than 20 years. All of which adds up to greater gas distribution integrity.

Our Complete System.. From Main To Meter

Only Elster Perfection has developed a complete mechanical polyethylene gas distribution system for installing a main-to-meter gas service. This family of easy-to-install products incorporates our Permasert couplings and allows you to make fast and safe piping connections without the use of special tools or expensive equipment.

Complementing the wide variety of couplings, we offer anodeless service line risers, PermaLock® Mechanical Tapping Tees, PSV™ polyethylene shut-off valves, and Perfection excess flow valve. Each of these products features Permasert coupling outlets and are available in a broad range of sizes.





Legend

- Permasert® Coupling: Molded from PE4710/PE3408 resin. Permasert meets or exceeds ASTM D 2513, category 1; US DOT Part 192; NFPA 58; EN 1555; and NF T 54 069/54 067; IAPMO®/UPC® listed; CSA B 137.4 and DVGW VP 600 (G94e153) certified.
- Thrust Washer: Provides even distribution of force on the collet.
- Support Ring: Stainless steel ring molded into body of coupling for added strength and support of the gripping collet.
- Stiffener: Zinc-plated steel stiffener guarantees proper alignment and adds support.
- 6 Moisture Seal: Prevents entry of dust, dirt and moisture.
- Collet: Tapered gripping collet prevents pipe pull-out.
- "O" Rings: BUNA-N (Nitrile) elastomer seals provide permanent leak-proof protection.
- Spacer Retainer Ring: Guarantees precise centering of pipe and increases the locking power of collet.

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- Gas Grade Polyethylene (PE4710/PE3408)
 Gripping Support Ring: Stainless Steel Collet: Acetal (POM) Thrust Washer: Polyethylene (PE) O-Rings: BUNA-N (Nitrile) Spacer Retainer Ring: Acetal (POM) Insert Stiffener: Zinc-plated Carbon Steel
Pull-out Resistance - 0.2"(5 mm)/min Full Restraint, pulls to PE yield Pull-out Resistance - 20"(500 mm)/min.
- Full Restraint, pulls to PE yield Hydrostatic

- 580 psi (4 MPa) hoop stress
- 176°F (80°C)
- No Failure >340 hrs.

Quick Burst (SDR 11): >493 psig (34 bar)

Pressure ratings Couplings are designed to meet or exceed the maximum design pressure requirements of the piping system.

Sizes 1/2" CTS through 2" IPS (20 mm through 63 mm)

About Elster Group

A world leader in advanced metering infrastructure, integrated metering, and utilization solutions to the gas, electricity and water industries. Elster's metering and system solutions reflect over 170 years of knowledge and experience in measuring precious resources and energy.

Elster provides solutions and advanced technologies to help utilities more easily, efficiently and reliably obtain and use advanced metering intelligence to improve customer service, enhance operational efficiency, and increase revenues. Elster's AMI solutions enable utilities to cost-effectively generate, deliver, manage, and conserve the life-essential resources of gas, electricity, and water.

Elster has a staff of over 7,500 serving customers globally in North America, Central America, South America, Europe, Asia, Africa and the Middle East.

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