



# THE PROVEN GAS COUPLING

Now with Inner and Outer Seals

**Honeywell**

# PERMASERT MEANS PERFECTION INSIDE AND OUT

For more than 40 years and 50 million installations, Permasert couplings have meant safe, reliable gas distribution. And the Perfection Permasert 2.0 from Honeywell builds on that success with an innovative design that features ID and OD seals.

Faster connections at lower cost in virtually any weather, now with two layers of gas-tight protection against leaks and imperfections.

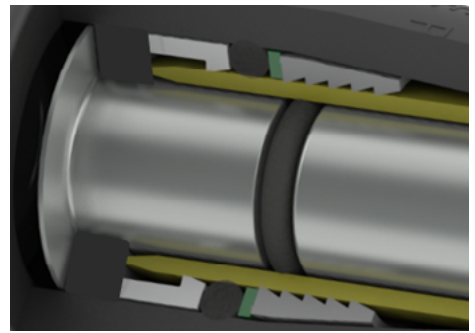
## PROTECTION INSIDE AND OUT

ID and OD seals provide greater protection against nuisance leaks and pipe variations.

**Inner diameter seal:** Helps protect against nuisance leaks from scratched pipe.

**Outer diameter seal:** Helps protect against variations in wall thickness.

**Two-piece stiffener:** More flexible than single-piece stiffeners to minimize gaps and stress.



## LOWER COSTS, FEWER HASSLES

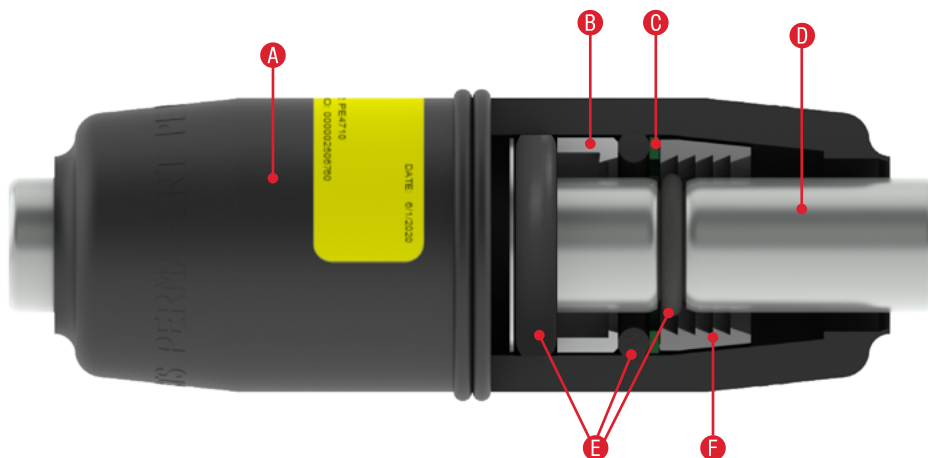
A Permasert fitting creates a permanent seal just as a fusion joint does – yet a Permasert installation is much faster. You'll also reduce your costs for tools and labor, and can complete installations in a wider range of conditions, with fewer limits and complications.

Easy installation in as few as 5 minutes with tools that fit in a pocket.

Get a permanent seal without rescheduling: Install in nearly any weather or other dirty conditions.

Training takes only 1 hour, vs. 4+ hours for electrofusion and conventional fusion fittings.

Cleaner and greener: No power source needed, no noise, no pollution.



- A** A Permasert 2.0 Coupling: Molded from PE4710 resin. Meets or exceeds US DOT Part 192; ASTM D2513, Category 1; ASTM F1924; NFPA 58; CSA 137.4. IAPMO/UPC listed.
- B** Spacer Retainer Ring: Centers pipe and provides a redundant activation mechanism for the collet.
- C** Thrust Washer: Provides even distribution of force on the collet.
- D** Stiffener: Zinc-plated steel stiffener guarantees proper alignment and adds support for full restraint.
- E** Seals: BUNA-N (Nitrile) elastomers provide a redundant sealing system.
- F** Collet: Tapered gripping collet prevents pipe pull-out.

## SPECIFICATIONS

### COUPLING COMPONENTS

Body : Gas Grade Polyethylene (PE4710)  
Collet: Acetal (POM)  
Thrust Washer: Polyethylene (PE)  
Seals: BUNA-N (Nitrile)  
Spacer Retainer Ring: Acetal (POM)  
Stiffener: Zinc-Plated Carbon Steel

### TESTING

**Pull-Out Resistance:** ASTM D2513 Category 1

- 0.2 ipm
- 20 ipm
- Full Seal + Full Restraint, PE Yields

**Hydrostatic:** ASTM D1598

- 670 psi (4.6 MPa) Hoop Stress
- 176°F (80°C)
- Pass
- **Quick Burst:** ASTM D1599
- Pass

### PRESSURE RATINGS

Couplings are designed to meet or exceed the maximum allowable operating pressure (MAOP) requirements of the piping system: 125 psig MAOP, or the rating of the installed tubing.

### SIZES

½ in. CTS through 2 in. IPS

## INSTALLATION PROCEDURE

Note: This quick-install image guide is for reference only. Permasert 2.0 couplings require training on the complete installation procedure before installing any Permasert 2.0 product.



1. Cut the tubing so that the end is square.



2. Wipe the tubing with a dry, clean cloth.

3. Inspect the tubing for surface defects.

Note: This quick-install image guide is for reference only. Permasert 2.0 couplings require training on the complete installation procedure before installing any Permasert 2.0 product.



4. Insert tube and rotate in chamfer tool until tube bottoms out.



5. Mark the stab depth.



6. Stab tubing into the coupling until it bottoms out.

7. Pressure test the finished joint according to your company's standard operating procedure

## THE COMPLETE MAIN TO METER SYSTEM

The Permasert 2.0 family of easy-to-install products enables you to make fast, safe piping connections without requiring special tools or expensive equipment. Permasert 2.0 products can be configured for virtually all gas-distribution applications.



- A** Anodeless Service Line Risers and Transition Fittings
- B** PSV Polyethylene Shut Off Valves
- C** EFV Excess Flow Valves
- D** Large Diameter Mechanical Couplings
- E** Servi-Sert™ Fittings
- F** Permalock™ Mechanical Tapping Tees

### Also available:

Prefabricated Meter Sets and Steel Products  
Custom Fittings and Accessories

## For more information

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 SAI GLOBAL  
ISO 14001  
Environmental



 SAI GLOBAL  
ISO 9001  
Quality



 SAI GLOBAL  
OHSAS 18001  
Health & Safety

All Permasert 2.0 configurations meet or exceed the requirements of ASTM D2513, US DOT Part 192, and CSA B137.4.

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FUTURE  
IS  
WHAT  
WE  
MAKE IT**

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