



FITTINGS FOR LiFE™

**Always** Seals  
Always **Safe**

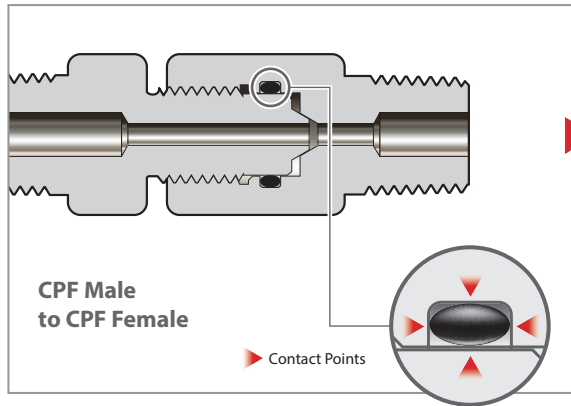
♦ U.S. Patent No. 8,794,677



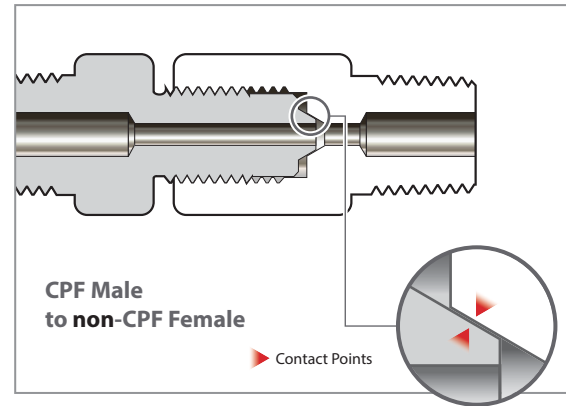
**AMETEK**®  
TEST & CALIBRATION INSTRUMENTS

# Improving on an Industry Standard

Now, **2** Ways to Seal: With Your Fingers, or with a Wrench



▶ **CPF to CPF O-Ring Seal**  
Finger-tight up to 10 000 PSI/  
700 bar/70 MPa (-20°C to 50°C)

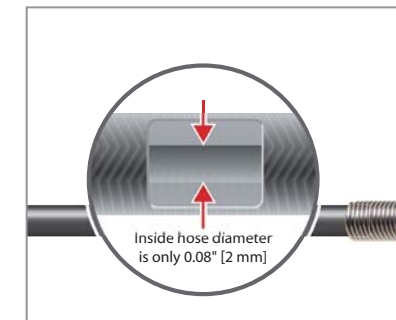


▶ **CPF to non-CPF Metal Seal**  
¼" medium pressure cone-type fittings lack an o-ring.  
Use a wrench to create a seal.

**Purpose Designed  
for Calibration and Testing**



**Super-Flexible,  
Lightweight Calibration Hose**



Small inner hose diameter reduces  
pumping effort and saves time.

**Safe • Made to Last**

**FITTINGS FOR LiFE™**

# 4 Ways CPF Fittings Keep You Safer

## Avoid Accidents



CPF Fittings and Hoses\* are machined in High-Strength 316 Stainless Steel to operate with a 4:1 Safety Factor at 10,000 PSI/700 bar/70 MPa. The Self-Venting Weep Hole alerts you, by leaking gas or test fluid, **BEFORE** you fully disconnect from a pressurized system. You'll never make *this mistake* again.

## No Leaks—Ever



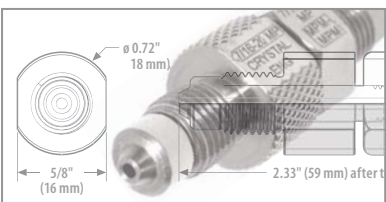
Should your O-ring leak in the field (due to chemicals or wear), simply pull it out and replace it, or use a wrench to create a metal-metal seal. Either way, you keep working safely.

## Clearly Marked—No Guessing



All CPF Fittings bear Laser Markings, indicating the thread type on both ends of the fitting, the part number, and the Maximum Allowable Working Pressure.

## Verified. Tested. Proven.



Experts assessed our design drawings and checked our calculations. An ASME Certified Inspector supervised our proof-pressure testing. The TSSA certified our compliance with ASME Pressure Vessel & Boiler Code. CPF is safe for you to use, **everyday**.

\*PATENT PENDING

## Have You Ever Done **This?**

**My test** had been running for the last 20 minutes. I started disconnecting my hoses and I was certain there was no pressure left in the system. I turned my wrench once – twice – three times... and bang! A jet of hot test fluid started spraying everywhere.

As I cranked the shut-off valve, I saw what had happened: I forgot to close one of my valves!

My clothes were soaked, and the equipment panel ten feet away showed a large dent, but no one was hurt.

*That could have been a lot worse!*

**CPF Fittings** feature an Early Warning Indicator to stop the next mistake before it starts.



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Dear Fitting User,

Several years ago we were working with a key customer at a tradeshow when the fitting we were using came apart, under pressure, in the middle of the test. It was embarrassing! And dangerous.

But when we walked over to the faulty fitting manufacturer's booth, they were not surprised or shocked at all. Instead, *they laughed!* **Wrong answer.** That following Monday, we made a decision.

After a year and a half of painstaking design and careful testing, we are proud to present **The Safest Calibration & Test Pressure Fittings on the Market: Crystal Pressure Fittings.** Using just your fingers, you can make safe, *reliable* connections up to 10,000 PSI/ 700 bar/ 70 MPa — without tools.

Plus, CPF Fittings and Hoses come with an industry-first 4:1 Safety Factor and a Self-Venting Weep Hole that alerts you *before* you disconnect from a pressurized system. (No one should disconnect pressurized fittings, but it happens.)

CPF Fittings are the safest, most reliable fittings you can find. They are made with the highest quality available. And yet, they still connect to common fittings from other vendors.

We're not replacing products from HiP and Autoclave Engineers. We simply improved on their standard by adding features that make CPF Fittings excellent for temporary, high pressure connections.

*We invite you to see for yourself:*

CPF Fittings & Hoses will outlast and outperform every other calibration fitting on the market. Order a Sample Kit and use them, just once. You will see and feel the difference.

With Your Safety in Mind,

The Crystal Team

## Always Have the Right Fitting Within Reach



**Connect to any process or device.**

One of the widest adapter selections available.

**Mate with all of your existing fittings.**

Directly compatible with HiP, Autoclave Engineers,  
and others.

**Choose a Standard Kit... or create your own.**

For detailed information  
go to [crystalengineering.net/cpf](http://crystalengineering.net/cpf)



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