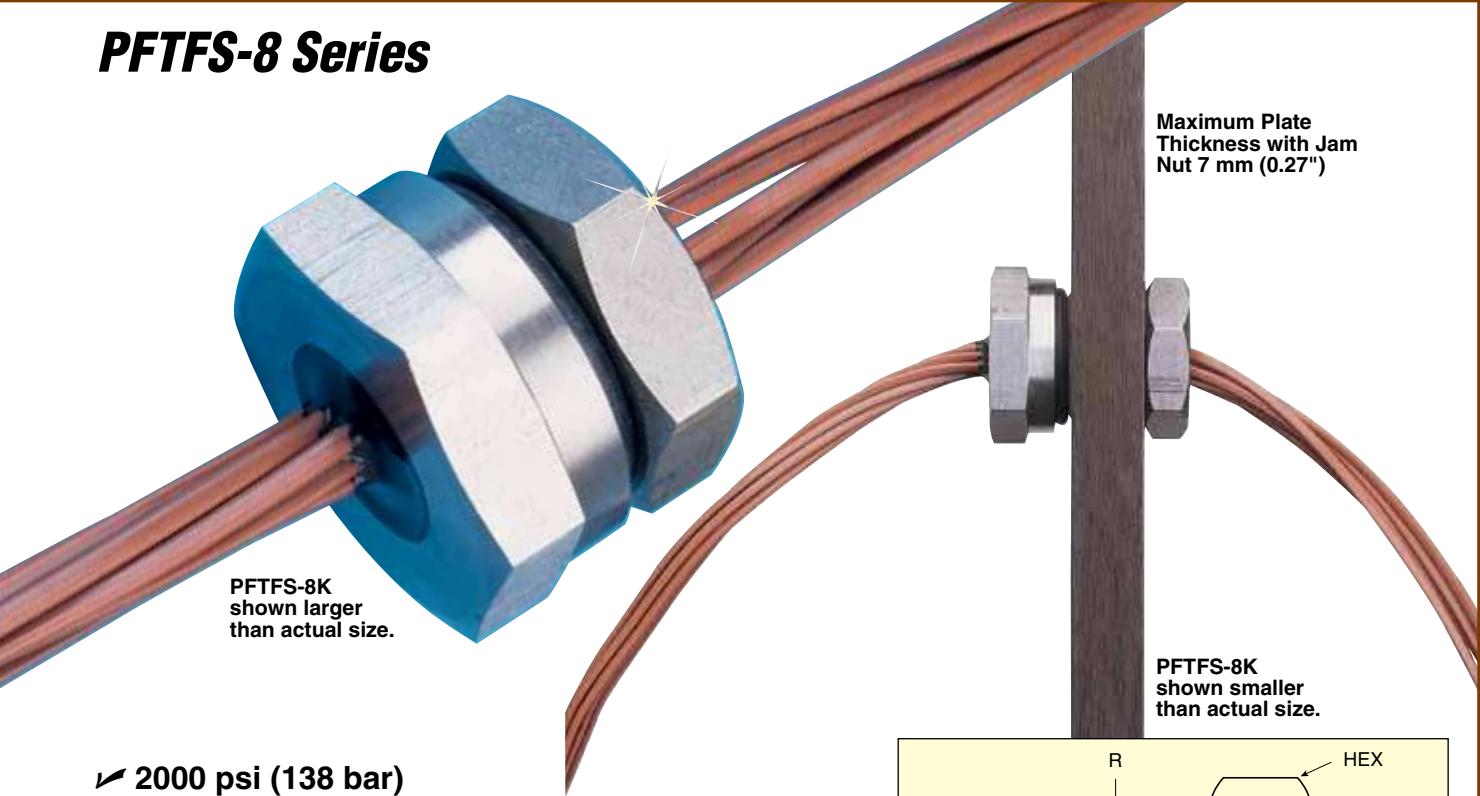


# VACUUM/PRESSURE FEEDTHROUGHS

## HERMETIC FACE SEAL

### PFTFS-8 Series



- ✓ 2000 psi (138 bar) Pressure Rating
- ✓ 10<sup>-8</sup> torr Vacuum Rating
- ✓ Copper and Thermocouple Wire
- ✓ 8 Wire Pairs for 8 Thermocouples
- ✓ PTFE Insulated Wire
- ✓ Nitrile O-Ring and Jam Nut
- ✓ Each Unit Tested for Reliability

### SPECIFICATIONS

**Note:** The face seal is the high pressure side, and the thread or jam nut is the low pressure side.

**Material:** 300 SS; nitrile O-ring

**Maximum Pressure:** 2000 psi (138 bar)

**Leak Rates, Pressure:** 1 x 10<sup>-6</sup> cc air/s at 2000 psi; 1 x 10<sup>-7</sup> cc air/s at 29 inHg vacuum

**Vacuum Limit:** 1 x 10<sup>-8</sup> torr

**Leak Rates, Vacuum:** 1 x 10<sup>-8</sup> cc He/s at 15 psi; 1 x 10<sup>-8</sup> cc He/s at 10<sup>-8</sup> torr

**Temperature Limits:** -40 to 120°C (-40 to 250°F)

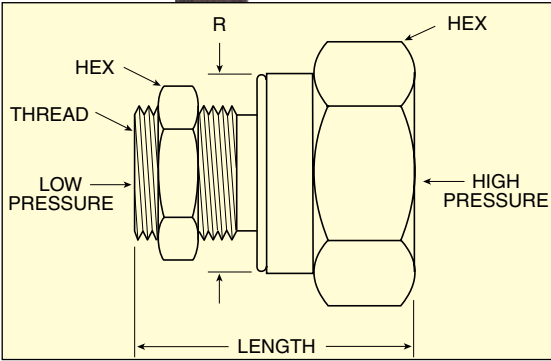
**Out Gassing:** <0.003% VCM; <0.34% weight loss; sample at 125°C, surface at 25°C

**Wire:** 20 AWG solid with PTFE insulation; 48 inL, -200 to 200°C rating

**O-Ring:** 2-121

### CHEMICAL EXPOSURE

Compatible: Oils, solvents, refrigerants, water, non-corrosive gases.  
Avoid: Strong acids and bases



Dimensions: mm (inch)

THREAD	ACROSS FLATS ON HEX	O-RING FACE R	LENGTH	LENGTH OF THREAD	ACROSS FLATS JAM NUT HEX	THICKNESS OF JAM NUT
1 $\frac{1}{16}$ -12	(1.50) 38.10	(1.49) 37.85	(1.40) 35.56	(0.75) 19.05	(1.38) 35.05	(0.41) 10.41

**To Order Visit [newportUS.com/pftfs](http://newportUS.com/pftfs) for Pricing and Details**

MODEL NO.	WIRE	NO. OF PAIRS
PFTFS-8CU	Cu	8
PFTFS-8E	E-Thermocouple	8
PFTFS-8J	J-Thermocouple	8
PFTFS-8K	K-Thermocouple	8
PFTFS-8T	T-Thermocouple	8

Comes complete with operator's manual.

**Ordering Examples:** PFTFS-8CU, hermetic feedthrough, face seal design, for 8 cu wire.  
PFTFS-8K, hermetic feedthrough, face seal design, for 8 Type K thermocouples.