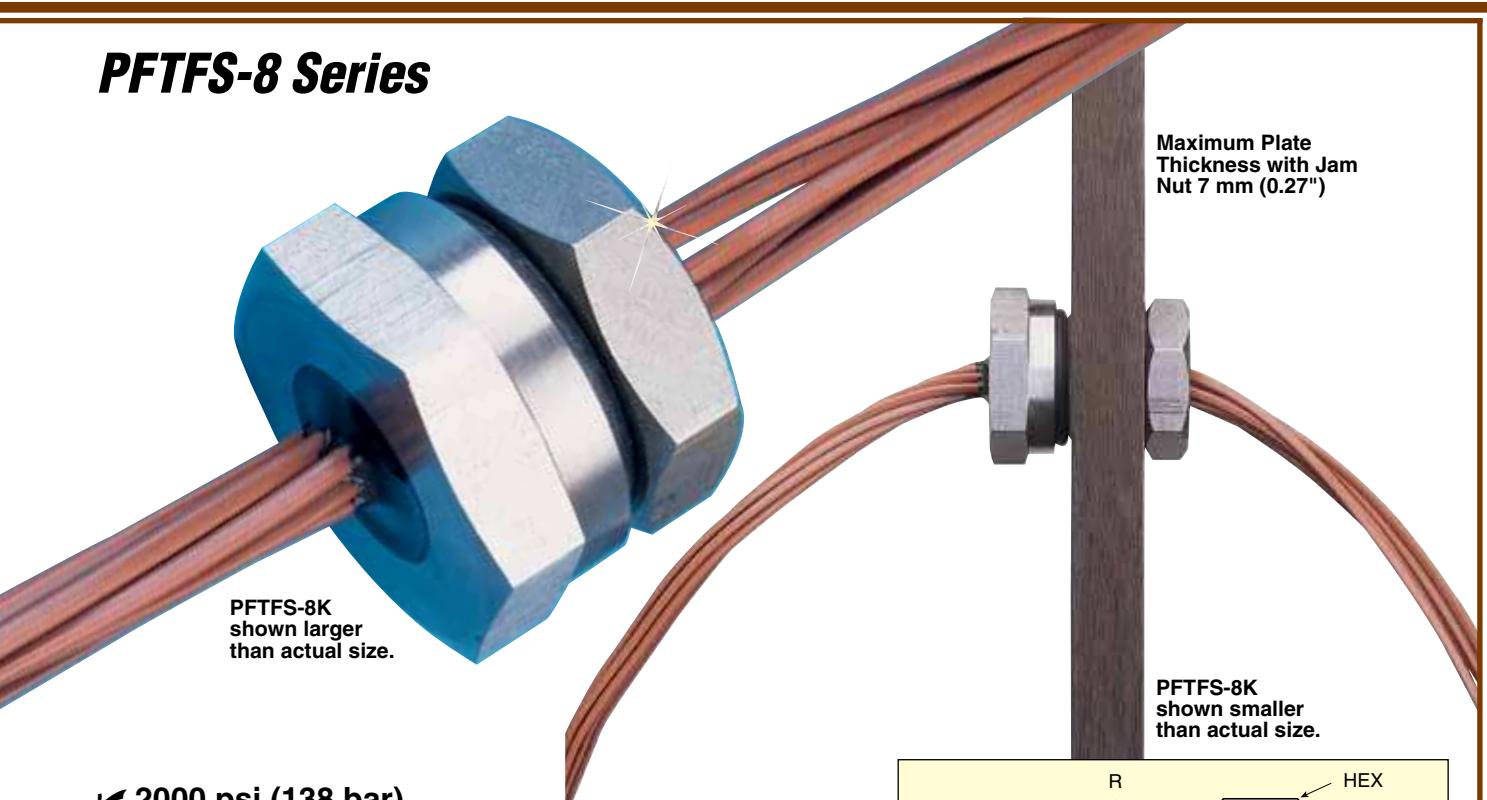


# VACUUM/PRESSURE FEEDTHROUGHS HERMETIC FACE SEAL

## PFTFS-8 Series

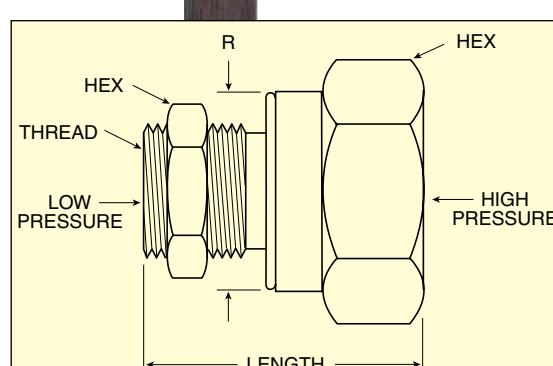


- ✓ 2000 psi (138 bar) Pressure Rating
- ✓  $10^{-8}$  torr Vacuum Rating
- ✓ Copper and Thermocouple Wire
- ✓ 8 Wire Pairs for 8 Thermocouples
- ✓ PTFE Insulated Wire
- ✓ Nitrile O-Ring and Jam Nut
- ✓ Each Unit Tested for Reliability

### 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 1/8-12	(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.

### 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:**  $1 \times 10^{-6}$  cc air/s at 2000 psi;  $1 \times 10^{-7}$  cc air/s at 29 inHg vacuum

**Vacuum Limit:**  $1 \times 10^{-8}$  torr

**Leak Rates, Vacuum:**  $1 \times 10^{-8}$  cc He/s at 15 psi;  $1 \times 10^{-8}$  cc He/s at  $10^{-8}$  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