

PR

1/4" to 7/8" O.D.
(7 mm to 22 mm)
Pressures to 650 PSI
(44 BAR)



TUBE CONNECTORS – STRAIGHT TUBE

For pressure testing, vacuum dehydrating, and other applications requiring a quick, leak-free connection.

SPECIAL APPLICATIONS:
Don't See the Size or Configuration You Want? Contact Us.



Designed to provide the sealing necessary for the greater sensitivity of today's demanding leak detection techniques.

Specially designed for nitrogen, water, helium* and most refrigerants (R12, R22, R134A, R407, R409A, R410, AZ220, AZ250).

Capable of sealing a 10 micron vacuum, pressures to 650 PSI (44 BAR).

Exclusive design eliminates need for lubrication, allows easy seal replacement.

Withstands temperatures from -20° to 250° F (-29° to 121° C).

*Helium leak rate less than 1×10^{-7} cc/sec @ 150 PSI (10 BAR)

Automatic Self-Locking Retention

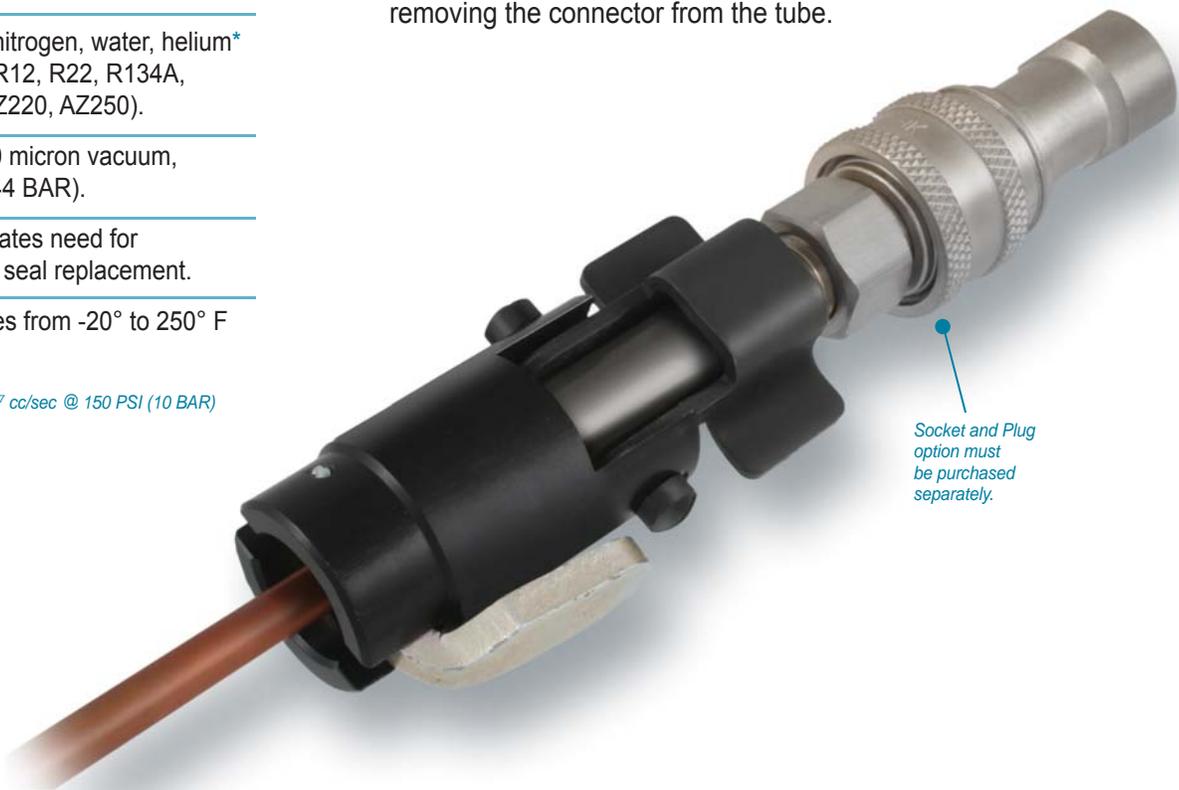
No adjustments other than routine maintenance by the operator are ever necessary.

Single 1/4" Long Seal

Lasts longer and provides a greater sealing surface which enables it to withstand the sensitivity of helium leak testing.

Independent Locking and Sealing Actuation

Allows the operator to safely release pressure before removing the connector from the tube.



The PR Tube Connectors feature the Tuthill automatic self-locking device, which instantly connects seal pressure and vacuum lines to straight end tubing creating a leak-free seal. These units work on the push-on, pull-off principle – the higher the pressure, the tighter the hold.

Connection to tube is instantaneous. Just connect unit to service line, depress the lock lever, push on over tubing, pressing firmly to stop position and actuate cam lever. This automatically locks the tube in place for a leak-free seal, ready for pressure testing, vacuum dehydrating or charging with refrigerant. To disconnect from tubing, relieve test pressure, actuate cam lever 90°, depress lock lever and pull off. It's that simple.

Simplified design eliminates lubrication requirements and allows easy seal replacement – only one seal which can be replaced in seconds.

The seal is compressed around the O.D. of tube and actuated by the cam lever independent of the locking mechanism. Since it's not an end type seal, the surface condition of the tube's cut-off end does not affect the seal. It lasts longer and has a greater sealing area to withstand the sensitivity of helium and freon testing.

A quick disconnect can be assembled directly to the male pipe thread inlet port without the need of a short nipple or adapter.

Recommended for a range of services including helium, air, water, vacuum, and most refrigerants. The PR is constructed with a heat treated and plated steel lock lever and neoprene seal suitable for temperatures from -20° to 250° F (-29° to 121° C).



Design allows full flow for quick evacuation and charging. No restrictive small seal or plunger.

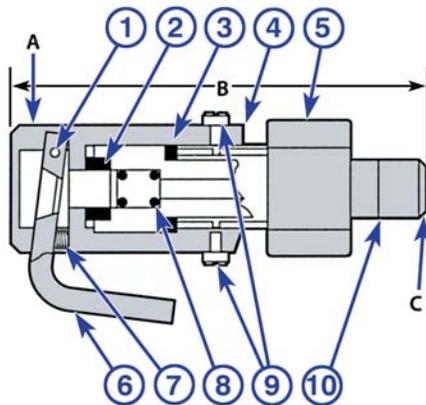
Two locking positions for highest possible secured seal.



Lock Lever



Locking Cam Lever compresses seal around O.D. of tube.



PART material

- ① LEVER PIN hardened and plated steel
- ② SEAL neoprene
- ③ WEAR WASHER hardened and plated steel
- ④ BODY anodized aluminium
- ⑤ CAM LEVER hardened and plated steel
- ⑥ LOCK LEVER hardened and plated steel
- ⑦ LEVER SPRING stainless steel
- ⑧ SPRING stainless steel
- ⑨ SCREWS hardened and plated steel
- ⑩ PISTON stainless steel

Part Number*	Tube Size	Minimum Tube Length	Connector Dimensions		
			O.D. (A)	Length (B)	Inlet (C)
PR SERIES					
PR0250-57	1/4"	1.00"	1.13" rd.	3.50"	1/4" NPT
PR0312-57	5/16"				
PR0375-57	3/8"				
PR0437-57	7/16"	1.13"	1.38" rd.	3.63"	1/4" NPT
PR0500-57	1/2"				
PR0625-57	5/8"				
PR0750-57	3/4"				
PR0875-57	7/8"	1.38"	2.00" hex	5.25"	3/4" NPT
MPR SERIES					
MPR5070-57	7 mm	25 mm	1.13" rd.	3.50"	1/4" NPT
MPR5080-57	8 mm				
MPR5100-57	10 mm				

* When ordering, please specify part number, tube O.D., minimum available tube length, test pressure, media and media temperature. Tube O.D. tolerance must be +.003/- .005 maximum.

