PR* 1/4″ to 7/8″ O.D. (7 mm to 22 mm)

TUBE CONNECTORS — STRAIGHT TUBE

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

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.

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

- Especially designed for nitrogen, water, helium** and most new 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 1x10 cc/sec @150 PSI

* US Patent Number 4759572

THE PR TUBE CONNECTOR

features the Tuthill automatic self-locking device, which instantly connects seal pressure and vacuum lines to straight end tubing creating a leak-free seal. The unit works on the push-on, pull-off principle — the higher the pressure, the tighter the hold.

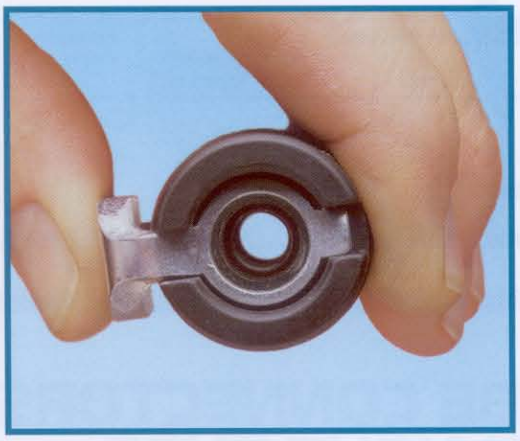
Connection to tube is instantaneous. Just connect unit to service line, depress the lock lever, push on over tubing, pressing firmly to stop position and actuate cam lever. This automatically locks the tube in place for a leak-free seal, ready for pressure testing, vacuum dehydrating or charging with 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 1/4" 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.

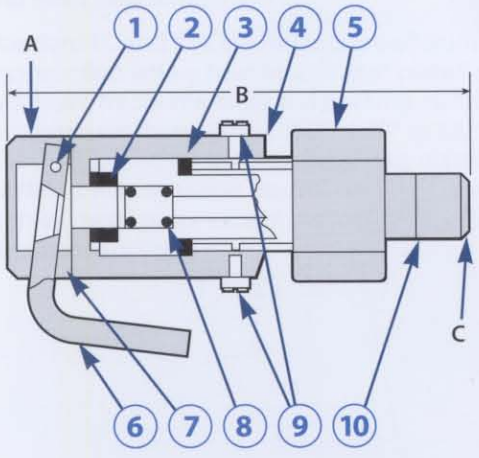
A quick disconnect can be assembled directly to the 1/4" male pipe thread inlet port without the need of a short nipple or adapter.

Recommended for a range of services including helium, air, water (with stainless piston), vacuum, and most new 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.

Cam lock 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 aluminum*
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*

Model Number◆	Minimum Tube Length	Tube Size O.D.	A O.D.	B O.A.L.	C NPT Inlet
PR 0250 57 PR 0312 57 PR 0375 57	1"	1/4" 5/16" 3/8"	1 1/8" rd.	3 1/2"	1/4"
PR 0437 57 PR 0500 57 PR 0625 57	1 1/8"	7/16" 1/2" 5/8"	1 3/8" rd.	3 5/8"	1/4"
PR 0750 57 PR 0875 57	1 3/8"	3/4" 7/8"	2" hex	5 1/4"	3/4"

Note: Adaptable to nominal metric dimensions.

◆ *When ordering, please specify model number, minimum available tube length, test pressure, media and media temperature. Tolerance of bore must be +.003/-.005 maximum.*