

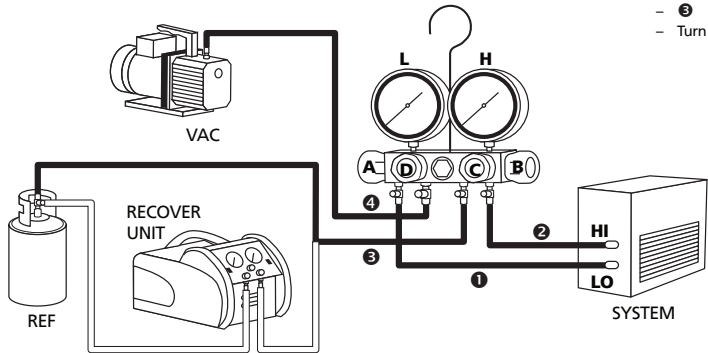
4-Way Diaphragm-Valve Manifold
OPERATION INSTRUCTIONS



Warning
Refrigerant and lubricant vapor or mist may cause injury, frostbite, irritate eyes, nose and throat. Avoid breathing or contact with skin.
Always point hoses away from you or people near around. Safety goggles should be worn at all times. Review the material safety data sheet (MSDS) provided by the refrigerant manufacturer for safe and proper handling information as well as instructions as to what to do if an emergency should arise. Improper procedures can cause refrigerant gas under pressure to explode violently. This equipment is intended for use by professional technicians in the refrigeration and or air conditioning field who are familiar with all safety practices in working with refrigerants and refrigerant equipment.

4-Way Diaphragm-Valve Manifold Function
– Diaphragm valves with swivel seats for surely seal and less wear.
– **A, B, C, D** knobs — Each control flow of hoses ①, ②, ③, ④.
– No need hose change during evacuating or charging.
– **L & H** – Flutter free pointer gauges indicate either vacuum & pressure, are calibrated at the factory before shipment. If calibration is required, remove the lens. Insert a straight blade screwdriver onto the adjusting screw of dial face and turn the screw until the dial pointer to zero.
– Large soft hand knobs easily turn on or off the valve.
– Visibility the refrigerant flow from sight-glass.

Hook-UP for System Diagnosis
– **A, B, C, D** Closed
– ①, ②, ③, ④ Connected as shown
– Turn A/C system on, select at the most cool and fan to high. Observe pressures in manifold gauges and refer to your A/C system manual for proper diagnosis.

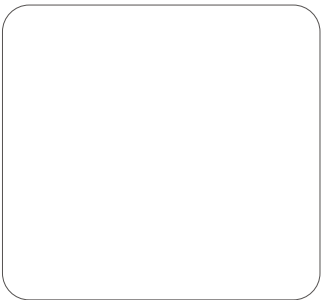


System Evacuation & Vacuum Test
Noted: It's unlawful to discharge or exhaust refrigerant into atmosphere. Strongly recommends the practice of recovery before evacuating.
– **A, B, C, D** Opened
– ①, ②, ③, ④ Connected as shown
– Valve at the refrigerant Cylinder – Closed
– Turn on Vacuum pump for time desired. After system has been evacuated to gauge reading of 29"Hg-in (-1 bar), suggest continuously run vacuum pump for 20 minutes.
– **A, B, C, D** Close
– Read the L gauge to check if pointer hold

Charging Refrigerant from Suction Side (After system evacuation and vacuum test)
– **A, B, C, D** Closed
– ①, ②, ③ Connected as shown, open valve at refrigerant cylinder (REF)
– Turn A/C system on and open valve **C**, slowly open valve **A** until pressure reach 2.8bar (40psi). Do not exceed 40psi pressure during the charging or could damage the compressor.

To Purge Hoses
– **A, B** Opened
– **C, D** Closed
– ①, ② Connected as shown, but not tightened at the opposite end of manifold
– ③ Connected as shown to REF (opened)
– **C** Open begin to purge and tighten ①, ② after

To Recover System
– **A, B, C** Opened
– **D** Closed
– ①, ② Connected as shown
– ③ Connect to Ref cylinder via Recover unit
– Turn on the recover unit and refrigerant recovered



OIS-4DVM

Warranty and Repair Policy
This equipment is free of manufacturing and material defects to the original owner for one year from the date of purchase. It will be repaired or replaced (at our option) at no charge as it failed during the guarantee period. The warranty does not apply to this equipment which have been altered, misused. All repaired equipment will carry an independent 90 days warranty.

Diaphragm Valve Manifold Service Parts Kit
#700-EP External Spare Parts Kit -
Knob, Screw, Labels, Retaining Nut, Stem Screw (+ Round Tip)
#700-IP Internal Spare Parts Kit -
Labels, Spring, Actuator, Diaphragm - Teflon (2), Mylar (2), Ring
#780-SP Sight Glass Spare Parts Kit -
Sight Glass Nut, Glass, Washer Ring - Nylon & Teflon