



**RUELCO “EX-1” MANUAL VAVLE  
MODEL 1702  
OPERATION MANUAL  
MANUAL # OMP- 1702 – 09 – 95  
(SEE SPEC. SHEET 1702)**

**I. PRINCIPLE OF OPERATION**

The Ruelco “EX-1” Quick Bleed is designed to rapidly exhaust the control pressure from an actuator or other pneumatic devices. It is typically used on safety valves or other devices that must respond quickly when the control signals are removed. Its in-line design and three (3) part construction make the quick bleed easy to install and maintain. No special tools are needed for repair and assembly. The Ruelco “EX-1” will improve equipment operation and reduce maintenance time.

**II. INSTALLATION**

The “EX-1” can be mounted either vertically or horizontally or supported by piping from any of its ports. If it's supported by piping, care should be taken that the strength of the pipe fitting used is adequate to prevent the fitting from breaking off in the valve body should the valve be inadvertently struck.

Proper pipe thread sealant should be used on any pipe fittings threading into the valve ports. If stainless steel fittings are used, a sealant that will prevent galling is required. Supply gas flowing through the valve body should be free of large dirt particles. If compressed air is used, it does not have to be lubricated. If natural gas is used, it should contain as little condensate as possible; this will extend the life of the bladder.

**III. DISASSEMBLY (REFER TO SPEC. SHEET 1702)**

Tools required are as follows:

- $\frac{3}{4}$ " and  $\frac{7}{8}$ " open end wrench or suitable adjustable wrench.
- 1) Place the  $\frac{3}{4}$ " wrench on the center spool (Item 1) and unscrew it from the body (Item 3). Remove the bladder (Item 2) from the center spool.
  - 2) The bladder (Item 2) on the center spool (Item 1) may now be replaced as per instructions given in the repair section of this manual.
  - 3) The valve is now ready to be cleaned and repaired.

**IV. REPAIR AND ASSEMBLY**

- 1) Using an appropriate safety solvent, clean all parts.
- 2) Verify that all bores are free of burrs, nicks or dings. Closely examine the edges of the holes in the body (Item 3) and be sure that they are free of burrs and/or sharp edges.
- 3) Examine the edges of the holes on the center spool (Item 1) and verify that they are smooth and free of burrs.

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| <p>4) The bladder (Item 2) shall have an OD that is smooth and free of imperfections.</p> <p>5) Examine all threads for gouges or excessive wear.</p> <p>6) Replacement bladder seal from a Ruelco <b>product repair kit</b> is required for proper valve performance.</p> | <p>7) Install the bladder onto the center spool. Verify that the bladder fits snug.</p> <p>8) Insert the center spool with bladder into the body and thread it as far as possible by hand.</p> <p>9) Using the 3/4" and 7/8" wrenches, firmly tighten the center spool to the body.</p> |
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**V. RECOMMENDED MAINTENANCE**

PROCEDURE

Operate Manually.  
 Disassemble and inspect.  
 Replace seals.

INTERVAL

Every 30 days.  
 Yearly or as required.  
 Every two (2) years or as required.