

## IMPORTANT RECEIVING INSTRUCTIONS

Visually inspect all components for shipping damage. If any shipping damage is found, notify carrier at once. Shipping damage is NOT covered by warranty. The carrier is responsible for all repair or replacement costs resulting from damage in shipment.

## SAFETY INFORMATION

To avoid personal injury or property damage during system operation, read and follow all CAUTIONS, WARNINGS, and INSTRUCTIONS included with or attached to each product. ENERPAC CANNOT BE RESPONSIBLE FOR DAMAGE OR INJURY RESULTING FROM UNSAFE USE OF PRODUCT, LACK OF MAINTENANCE, OR INCORRECT PRODUCT AND SYSTEM APPLICATION. Contact Enerpac when in doubt about safety precautions or applications.



### **WARNING**

The system operating pressure must not exceed the pressure rating of the lowest rated component in the system.

## DESCRIPTION

MV-72 and MVM-72 check valves are used to hold the load in the event of a loss of system pressure. They are normally used with double-acting systems, in which the pilot port receiving signal pressure, allowing the valve to open.

## SPECIFICATIONS

| Model Number            | MV-72                 | MVM-72                |
|-------------------------|-----------------------|-----------------------|
| Max. Operating Pressure | 5,000 psi [350 bar]   | 5,000 psi [350 bar]   |
| Pilot Ratio             | 7:1                   | 7:1                   |
| Flow Capacity           | 10 GPM [37.85 l/min.] | 10 GPM [37.85 l/min.] |
| Ports                   | .250-19 BSPP          | manifold mounted      |

# INSTALLATION

## Mounting

### MV-72

Mount the MV-72 in any position, using the 0.281 in. [7,14 mm] diameter mounting hole.

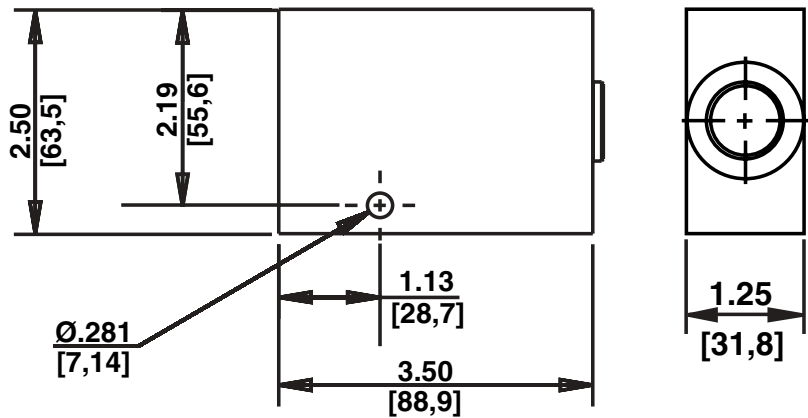


Figure 2

### MVM-72

MVM-72 is a manifold mount model. See page 3 for port locations. To prevent leakage, manifold mounting surface should have a flatness within .004 in. [.10 mm] and surface roughness average ( $R_a$ ) not to exceed 63  $\mu$ m. [1,6  $\mu$ m]. Prior to mounting the valve, lubricate the o-rings installed in the counterbores around the ports. Mount the MVM-72 on the manifold using the four M6 x 45,0 mounting screws shipped with the valve. Torque mounting screws to 16-18 ft-lbs. [21,5 - 25 Nm].

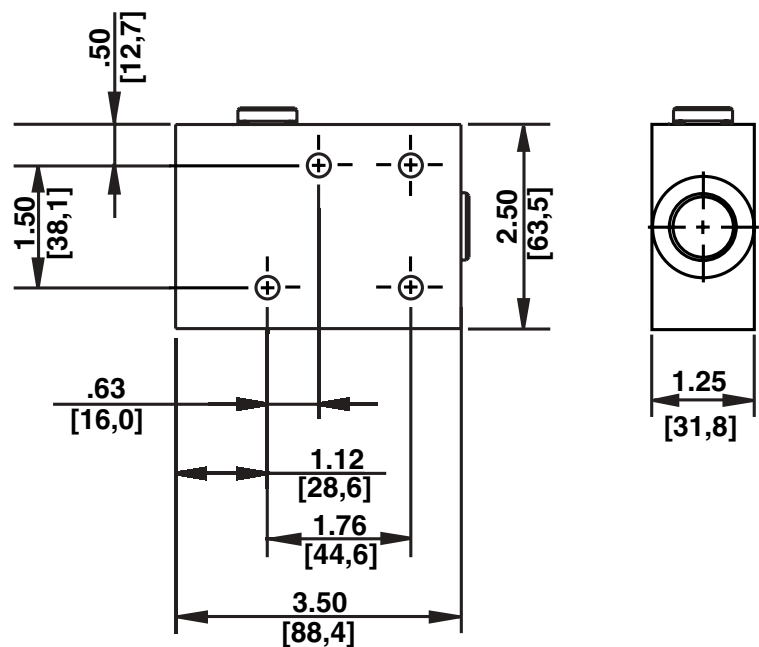


Figure 3

## Hydraulic Connections

A typical system circuit and cut-away view for both valves are shown below.

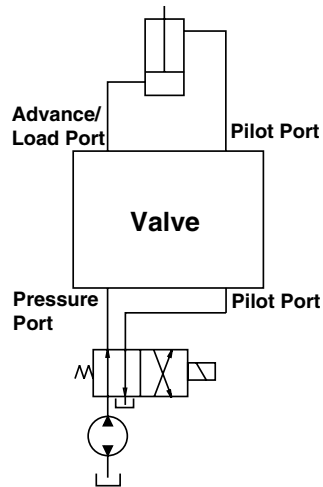


Figure 4

### MV-72

Valve ports are identified in Figure 5. Remove thread protectors. Remove plug from retract port for use in double-acting systems. Connect pressure and pilot ports to the pump. Connect advance and retract ports to the load.

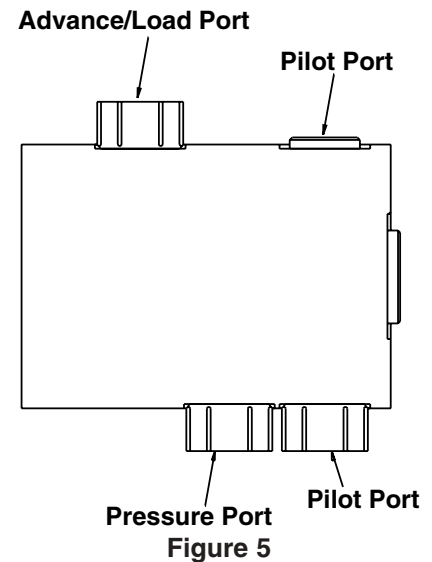


Figure 5

### MVM-72

Valve ports are identified below.

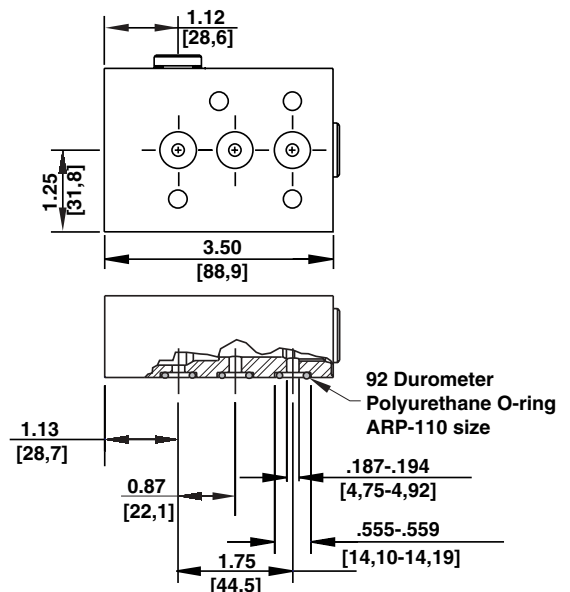
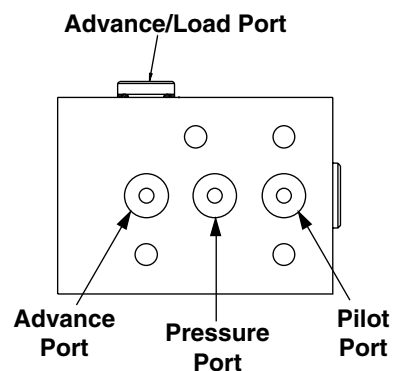


Figure 6

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