



*Directional Control Valves for Hazardous and Corrosive Environments.*

## INSTALLATION, OPERATING & MAINTENANCE INSTRUCTIONS

VALVE TYPES: PCV/04x .....  
PCV/06x .....  
PCV/08x .....  
PCV/12x .....  
PCV/16x .....

DESCRIPTION: ALL `PCV` TYPE CHECK VALVES

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## 1.0 **INTRODUCTION**

The following procedures apply to all in-line mounting, pneumatic or low pressure liquid service, check valves. Refer to the specific valve installation drawings for the operating parameters.

## 2.0 **INSTALLATION**

Valves can be mounted in any attitude. Check that the connecting tube fittings or valve have a compatible thread form. Standard valves have an NPT thread form; this taper thread requires the use of a thread sealant. NB It is not a dry-seal thread form.

Bifold Fluidpower strongly recommend that tube fittings are sealed into the fluid ports using thread sealant, Loctite 577 or equivalent, and that PTFE tape is not used.

Particular attention should be paid to ensure the correct fluid port connections are made;

**1** = Inlet    **2** = Outlet

A direction of flow arrow is clearly marked on the valve body.

## 3.0 **OPERATION**

Valves are supplied tested at 1.1 times the maximum working pressure marked on the valve body. Do not exceed this pressure during system proof pressure testing, or the stated working pressure under normal operating conditions.

**NOTE** The maximum permissible working pressure varies according to the valve model number.

The control element is a poppet with an integral elastomer O-ring to a metal seat. The sealing integrity of the valve element is exceptionally good provided high standards of fluid cleanliness are maintained. However, as for all poppet valves, the control element is susceptible to damage from fluid borne particulate matter. Bifold Fluidpower recommends that all tubing is thoroughly flushed or blown through prior to the valve being installed, and that for liquid service a fluid cleanliness level equal to or better than NAS 1638 Class 9 / ISO 4406 Class 18/15 is maintained.

## 4.0 **MAINTENANCE**

No annual maintenance is necessary on pneumatic or low pressure hydraulic service check valves.