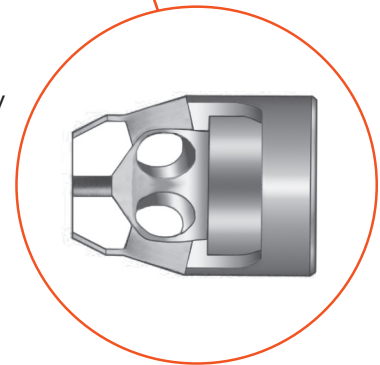
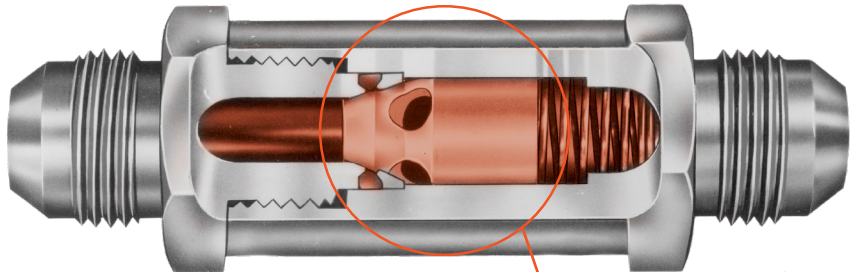
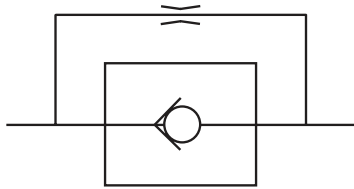




## Fixed Orifice Flow Control Restrictor Valves

Page 1 of 3



Fixed Orifice Controls provide free flow in one direction and restricted (metered) flow in the reverse direction. They are standard Kep-O-seal<sup>®</sup> or Kepsel<sup>®</sup> check valves equipped with a calibrated orifice drilled through the valve poppet nose. Kepner's bubble-tight Flexible Seal Seat<sup>™</sup> ensures that the reverse flow is precisely controlled by confining it to the calibrated orifice. Such valves are often used in charging lines for cylinders, containers, or accumulators where it is desired to rapidly charge and then bleed back the charged fluid at a pre-determined rate. These valves can handle many other applications.

### Features and Benefits

- Generous flow passages allow full free-flow with minimal pressure drop
- Metered reverse flow
- Tamperproof internal orifice
- Rugged and dependable

### Valve Specifications

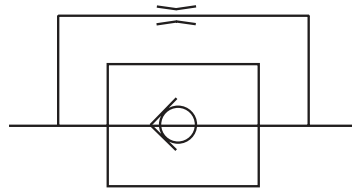
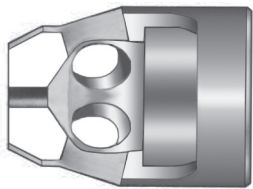
- Fixed Orifice Flow Control Restrictor sizes and specifications are the same as those shown for the standard Kep-O-seal<sup>®</sup> or Kepsel<sup>®</sup> check valves, except for cracking pressure and internal leakage which obviously do not apply.
- The valve orifice is drilled to customer's specifications within standard tolerances.

(continued on page 2)

Consult Factory or Distributor for more help. Customer/user is solely responsible to select products suitable for their specific application requirements and to ensure proper installation, operation and maintenance of these products. Improper selection or use of products can cause personal injury or property damage. All sales are subject to Kepner Products Company Standard Terms and Conditions of Sale. Designs are subject to change without notice.

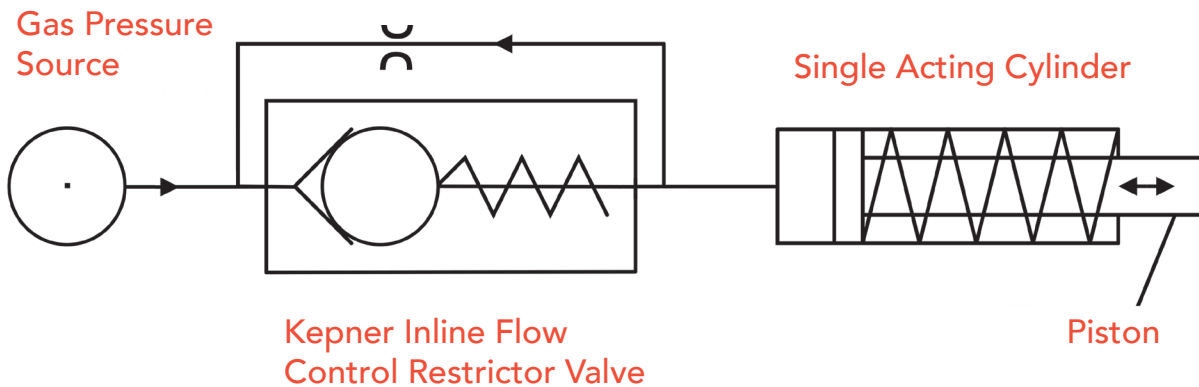


## Fixed Orifice Flow Control Restrictor Valves



ANSI Symbol

### Flow Control Restrictor Valve Application



Differential gas pressure across the inline flow control restrictor valve causes gas to flow through the check valve portion of the valve causing the piston in the single acting cylinder to move to the right. As the pressure is reduced, flow through the restrictor portion of the control valve continues allowing the piston in the cylinder to move to the left at a predetermined rate based on the size of the restrictor orifice and the piston spring force. The piston retracts (moves to the left) until it returns to the original position.

(continued on page 3)

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## Fixed Orifice Flow Control Restrictor Valves

Part Numbers: Kep-O-seal® Inline and Kepsel® Cartridge Type Insert  
Fixed Orifice Flow Control Restrictor Valves\*

### 1/8" to 3" Sizes – Part Number Example

4 06 C – 1 – 25    (.062)

See **Kep-O-seal®** Inline Check and Relief Check Valves and add the Orifice Size to the Part Number as shown in the Part Number Example.

**Orifice Size** (Thousandths of an inch)

### 1/16" to 2" Nominal Sizes – Part Number Example

22 06 C – 1 – 25    (.062)

See **Kepsel®** Cartridge Check and Relief Check Valves and add the Orifice Size to the Part Number as shown in the Part Number Example.

**Orifice Size** (Thousandths of an inch)

**\* Note: All poppet designs can be converted to Flow Control Restrictor Valves by adding an Orifice Designator as shown in the Part Number Examples above.**

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