Kepsēl® cartridge valves are designed for simple installation (no expensive machining for cavity) and offer the same outstanding performance as their counterpart Kep-O-seal® inline valves. These spring-operated poppet valves, with optional relief settings, allow free flow in only one direction and prevent backflow. They also are used for relief and by-pass functions. Kepner's Flexible Seal Seat™ ensures bubble-tight shutoff of liquid or gas, and long service life. Standard and specialty valve designs handle a wide variety of applications, and are ideal for use in subplate and manifold assemblies, pump inlet/outlet, and cylinder blocks.

**Features and Benefits:**

- **Flexible Seal Seat™** for zero leak (bubble-tight) seal at low and high pressures
- No threaded connections (avoid potential leakage)
- O-Ring seal positively secured
- Poppet stop inside valve body prevents spring from bottoming out
- Generous flow passages allow full flow with minimal pressure drop
- Compact, easy installation - Accessory Kepner Holding Device Kits available

**Valve Specifications:**

- Nominal Sizes: 1/16 inch to 2 inch (1.6 mm to 51 mm; 9 Sizes)
- Body Materials: Brass, Steel, 303 or 316 Stainless Steel
- O-Ring Seals: Buna-N, Neoprene, Viton®, EP, other materials available
- Temperature: -300°F to 450°F (-184°C to 232°C), O-Ring dependent
- Check Crack Pressure: 1 to 2 PSI (.07 bar to .14 bar)
- Relief/Check Crack Pressures: 5 PSI (.35 bar), 10 PSI (0.7 bar), 25 PSI (1.7 bar), 50 PSI (3.5 bar) and 65 PSI (4.5 bar), others available
- Operating Pressure: to 3000 PSI (207 bar)
- Flow: to 200 GPM (757 LPM)

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Cartridge Type
Insert Check Valves

Dimension Diagrams:

- **MODEL 2201 AND 2203**
  - **H INLET DIA.**
  - **H OUTLET DIA.**
  - **Ο C REF.**
  - **G**

- **MODELS 2206 TO 2232**
  - **H INLET DIA.**
  - **H OUTLET DIA.**
  - **Ο C REF.**
  - **DIRECTION OF FREE FLOW**

**NOTES:**
1) ALL DIMENSIONS (IN INCHES) ARE FOR REFERENCE ONLY.
2) VALVE MUST BE HELD END - FOR - END IN USE.

**Table:**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C REF</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>EXTERNAL SEAL O-RING SIZE</th>
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### Part Number and Flow Charts:

#### BASE MODEL NUMBER

#### NOMINAL SIZES

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<td>06</td>
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</tr>
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<td>32</td>
<td>2”</td>
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</table>

#### CONSTRUCTION MATERIALS

- B = BRASS
- D = 303 STAINLESS STEEL
- C = STEEL
- F = 316 STAINLESS STEEL

#### O-RING SEALS

- 1 = BUNA-N
- 9 = NEOPRENE
- 18 = VITON®
- 25 = ETHYLENE PROPYLENE
- OTHERS AVAILABLE

#### FLOW GALLONS PER MINUTE

- Test Fluid: MIL-H-5606A Hydraulic Oil
- Test Temp: 75°F

#### PRESSURE DROP - PSI

- Test Fluid: MIL-H-5606A Hydraulic Oil
- Test Temp: 75°F

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