CERAM™ PNEUMATIC DIRECTIONAL CONTROL VALVE
ISO 5599/1 SIZES 1 - 4

Pneumatics
It’s that easy
Tough enough to survive, no matter where in the world you send it

The secret’s a ceramic seal. Inside the valve a pair of sliding ceramic plates form a nearly perfect, almost indestructible seal. The near diamond hard plates wipe themselves clean, shrugging off ingested dirt that destroys ordinary valves. The result makes the Ceram valve the toughest on the market.

The benefits

- **Extended life**
  Years of proven field service with Ceram™ valves verify an anticipated life of 150 million cycles even under adverse conditions. The ceramic plates are warranted for the life of the valve.

- **Just as tough with no lubrication**
  The Ceram valve is pre-lubed with grease. Its unique ceramic plate wiping action prevents wear even without line lubrication.

- **Global standard ISO mounting**
  ISO 5599/1 mounting dimensions mean that wherever you send it, it’s completely interchangeable with other ISO valves anywhere in the world.

- **Standard electrical connections**
  The solenoid versions operate with either AC 50 or 60 HZ service or DC voltages, using continuous duty plug-in solenoids with DIN 43 650 connectors. Lighted or non-lighted connectors are options. The Ceram valve meets NEMA 4 electrical specifications.

- **Complete offering**
  Four basic valve sizes ISO 1 through 4 with subbases and manifolds available for 1/4” through 1” in NPT or ISO G(BSPP) ports. Manifolds can be end or bottom ported with no special tie rods. Models include single or double solenoid, and single or double air pilot. Solenoids can be either internal or external pilot.

Some of the most popular Ceram valves are included in the AVENTICS Quick Ship Program.
A complete offering - Ceram™ valves fit the job

Choose the valve model that’s right for your application. Ceram offers lots of choices other than the four ISO sizes and solenoid vs. air pilot operation. You can have two- or three-position (closed center or exhaust open center) operation, even dual-pressure and vacuum operation if needed.

- **Ceramic Sliding Plates**: Warranted for the life of the valve. Near diamond hardness.
- **Bottom and End Ported Manifold**: Available for sizes 1 to 4 (ISO size 1 shown).
- **Single Side Ported Subbase**: Available for all sizes. Two port size choices for sizes 1 through 3.
- **Brad Harrison® Type Connector**: Available for all sizes in 3, 4 or 5 pin in single solenoid, and 4 or 5 pin in double solenoid.
- **Explosion Proof Solenoid Operator**: Available for all sizes. Standard with 1/2” conduit housing and 18” wire leads. Various U.L. and NEMA approvals.
A wide range of Accessories for you to choose from

Ceram™ valve accessories customized for your application. Everything pipes directly into the base. That makes it easy to add accessories like flow controls or a regulator, or even a maintenance plate that allows a valve to be serviced while the other valves on the manifold operate.

**Sandwich Flow Control**  
Available in all sizes. Adjust via screw on each side.

**Sandwich Regulator**  
Available for all sizes 1 through 3. Knob can lock in a given position.

**Dual Pressure Sandwich Regulator**  
Available for sizes 1 through 3. Provides two separate delivery pressures.

**Mating Solenoid Connectors**  
Full line of 1/2” conduit and stain relief connectors for all valve sizes. Lighted and non-lighted versions.

**Maintenance Plate**  
Available for sizes 1 through 3. Allows servicing of an individual valve in a manifold system.
Specified by industries that demand tough valves due to their harsh operating environment.

Ceram™ valves are very prevalent where ordinary valves just don’t last. Industries such as: tire plants, foundries, paper mills, steel plants, concrete batch plants, sawmills, plywood and board plants, automotive assembly, rubber and plastics glass manufacturers, smelting, sheet metal fabrication, etc.

- Elimates downtime from replacement of valves that stick
- Work in a wide range of industrial applications

<table>
<thead>
<tr>
<th>Valve size</th>
<th>Ports NPT, ISO G (BSPP)</th>
<th>C_v</th>
<th>S.C.F.M.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 1</td>
<td>1/4&quot;, 3/8&quot;</td>
<td>1.1</td>
<td>40 SCFM</td>
</tr>
<tr>
<td>Size 2</td>
<td>3/8&quot;, 1/2&quot;</td>
<td>2.4</td>
<td>86 SCFM</td>
</tr>
<tr>
<td>Size 3</td>
<td>1/2&quot;, 3/4&quot;</td>
<td>4.3</td>
<td>155 SCFM</td>
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<tr>
<td>Size 4</td>
<td>1&quot;</td>
<td>7.5</td>
<td>269 SCFM</td>
</tr>
</tbody>
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*Flow measured with 87 psi (6 bar) supply pressure and 14.5 psi (1 bar) pressure drop across the valve.
Valve sizes / Specifications

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<td>NPT, ISO G (BSPP)</td>
<td>1.1 40 SCFM</td>
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<tr>
<td>Size 2 3/8&quot;, 1/2&quot;</td>
<td>NPT, ISO G (BSPP)</td>
<td>2.4 86 SCFM</td>
</tr>
<tr>
<td>Size 3 1/2&quot;, 3/4&quot;</td>
<td>NPT, ISO G (BSPP)</td>
<td>4.3 155 SCFM</td>
</tr>
<tr>
<td>Size 4 1&quot;</td>
<td>NPT, ISO G (BSPP)</td>
<td>7.5 269 SCFM</td>
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