



Zirconia Lined Flow Control Valve for "Severe Service"

Double Sided, Variable Flow Choke Valve DSAC™

- **Mg-PSZ Zirconia is 6X more abrasion resistant & 10% tougher than Carbide**
- **Critical internal parts are constructed with Mg-PSZ Zirconia**
- **Valve is designed to have less turbulence than other chokes**
- **The zirconia cam is double sided & can be field changed**
- **The flow is fully adjustable**
- **Zirconia is the optimum material for erosion & corrosion resistance**
- **Increased life, reduced downtime= increased production efficiency**
- **This premium valve is THE most cost effective solution to current choke problems**

General Description: The Refractron Zirconia lined flow control valve is constructed with Mg-PSZ wetted parts & a double sided cam for extended life in the most severe oil & gas applications.

Design Specifications:

<i>Pressure Rating-</i>	API 2000- 15000 or ANSI 150- 2500 PSI
<i>Temperature Rating-</i>	-50 to 250 degrees F
<i>Valve Style-</i>	Zirconia (Mg-PSZ) Ceramic Trim, Double Sided Ceramic Cam
	Inline- 180 degree or Right Angle- 90 degree
<i>Connections-</i>	Threaded or Flange per ANSI or API Sizes 2 1/16" to 3 1/8" standard, others available
<i>Control Range-</i>	0-1.50" (depending on valve size)
<i>Indication-</i>	Graduated increments
<i>Quality -</i>	ISO 9000:2000 (Refractron Reg.# FM73894, BSI) Manufactured in accordance with API Standards
<i>Operation-</i>	Manual Gear Drive with hand wheel or Pneumatic or electric 180 deg actuator
<i>Options-</i>	17-7 PH Stainless Flanges or other special connections



Key Features:

- Mg-PSZ Zirconia is the optimum material for erosion and corrosion resistance
- Valve internal critical wetted parts like the inlet, outlet, body, sleeve, stem and cam are precision ground from high purity Magnesia-partially Stabilized Zirconia (MgPSZ).

Bottom line is LONGER LIFE, reduced down time, reduced maintenance and higher productivity due to the improved design & the superior Mg-PSZ Zirconia internal materials shown to the right.



Additional structural zirconia ceramic components produced by Refractron include: pump liners, sleeves, pistons, precision ceramic balls, spools, press tooling and extrusion tooling. Other specialty porous ceramic products include filters, diffusers and adsorbent filter/drier cores for refrigeration applications, dispersion parts, vacuum chucks, inkpads and gas probes.

Refractron works closely with our customers to define their needs and the requirements of each specific structural ceramic valve application. Our engineering and sales team is great at attacking technical design and process problems, then customizing an innovative solution using our broad range of ***advanced industrial ceramics***. Contact us with your “severe” application requirements.

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