Design Flexibility
C-Series Valve Adapts to Applications

Common Features for the MOGAS C-Series Valve Line

1 Floating ball design
   • Rotating ball does not displace volume or solids
   • Straight-through bore path protects sealing surfaces

2 Pressure-energized sealing
   • Seat springs maintain constant sealing contact between ball and seats
   • Allows for thermal expansion of trim
   • Metal seats wipe sealing surface of ball clean during operation

3 Wide seat sealing surface
   • SphereSeal™ lapping process on ball and seat set provides 100% sealing contact through the full transition between the open and closed position
   • Greater sealing contact area withstands minor scratches or abrasions

4 Independent replaceable seats
   • Minimizes maintenance and repair costs

5 Blowout-proof stem design
   • One piece design meets industry safety standards
   • Withstands severe service torques and maximum working pressures

6 Dual-guided stem design
   • Pressure-energized inner stem seals serve as thrust bearing and lower stem guide
   • Valve stem bushing serves as upper stem guide
   • Eliminates lateral movement of valve stem
   • Prevents media migration
   • Prevents stem packing leaks and risk of fugitive emissions

7 Forged body & end connections
   • Greater wall thickness in critical areas provides longer valve life
   • 2- or 3-piece designs

8 Heavy-duty mounting flange
   • Machined after attaching to ensure precise stem alignment
   • Provides structural support for operator mounting
   • Provides visual inspection for confirmation of ball position

Application Specific Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seat designs</td>
<td>Engineered for maximum performance in application-specific conditions</td>
</tr>
<tr>
<td>Live-loaded packing</td>
<td>Ensures constant packing energization</td>
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<tr>
<td></td>
<td>Prevents stem packing leaks and risk of fugitive emissions</td>
</tr>
<tr>
<td>Body Gaskets</td>
<td>Pressure energized body gasket available to meet industry codes</td>
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<tr>
<td>Materials</td>
<td>Application-specific materials available, including exotics</td>
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<td></td>
<td>Extends valve life</td>
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<tr>
<td>Coatings</td>
<td>Application-specific coatings provide enhanced erosion and corrosion resistance</td>
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<tr>
<td>Liners and inlays</td>
<td>Liners and inlays can be applied to the through-bore or wetted surfaces</td>
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<tr>
<td>Purge ports</td>
<td>Purge ports are available</td>
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<tr>
<td>End connections</td>
<td>Available end connections include flanged, welded, hub/clamp or RTJ</td>
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</tbody>
</table>

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C-Series Features & Benefits