

# Ultrahigh-pressure Valve

DATA SHEET

## Reliable Isolation Under Extreme Pressures

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Polymerising ethylene at extremely high pressures is a continual challenge and serious safety concern. MOGAS' high-pressure experts have worked closely with a large chemical company to design a dependable isolation valve for ultrahigh-pressure conditions.

These high-pressure components are used as isolation for specialty chemical injection, or as isolation of a compressor string. With over four decades of severe service experience in a variety of applications, MOGAS was chosen as their 'design partner' — with our valve design lasting **3 times longer** than their previous valves. This outstanding performance will help extend the plant's **overall output** and **minimize downtime**.

Valve Design Features	
Feature	Benefit
<b>Straight-through bore path</b>	Sealing surfaces not exposed to torturous effects of high pressure media
<b>Matched ball &amp; seat sets</b>	Mate lapped for 100% sealing contact and absolute shutoff Same materials and coating to match thermal expansion rates
<b>Two-piece forged body</b>	Designed to withstand high pressures and temperatures
<b>Rotary stem valve design</b>	Prevents process media from entering the packing area, minimizing leakage and extending packing life (for greater number of cycles)
<b>Live-loaded packing</b>	Ensures packing design meets environmental low emissions standards
<b>Dual stem guides</b>	Protects against side loads and maintains stem / ball alignment
<b>Locked-in seat</b>	Prevents solids from getting behind the seat
<b>Roller bearing</b>	Reduces torque
<b>Blowout proof stem</b>	Ensures industry safety standards
<b>Stem bushing</b>	Coated for wear resistance
<b>Seat spring</b>	Assisted by line pressure, provides constant mechanical force on ball against seat to maintain seal
<b>Rugged wall thickness</b>	Able to withstand ultrahigh design pressures in extreme conditions

