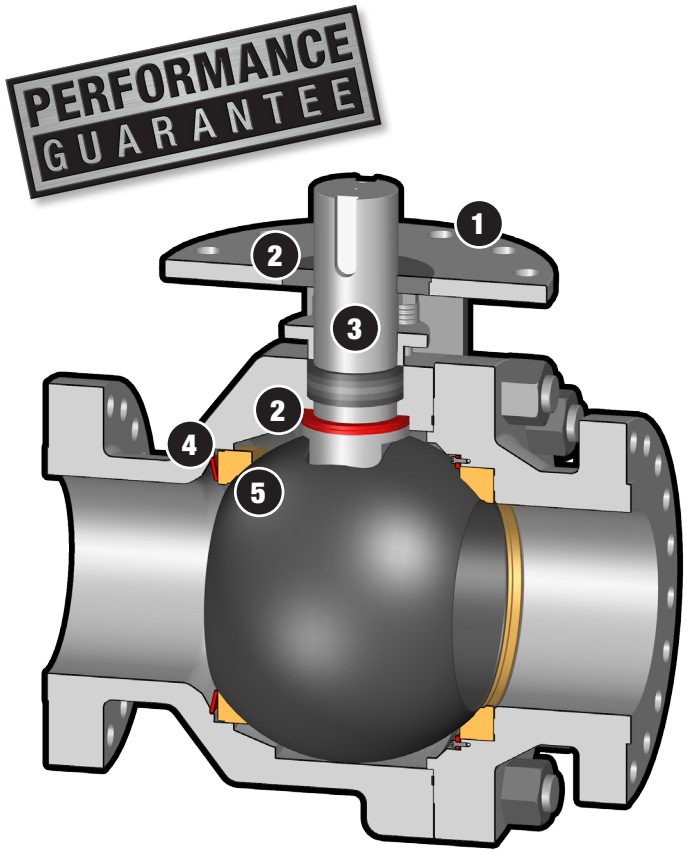
Valves for Gasification

Lockhopper Service

Model: CA-1AS

Metal-seated floating ball valve
ASME/ANSI B16.34 design
3 to 24 inch (80 to 600 DN)
ASME 600, 900 and 1500 Class



Features

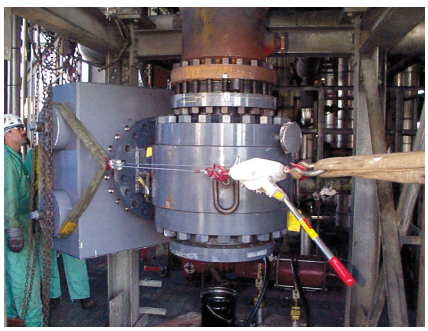
- Designed and built for high cycling
- True metal-to-metal sealing; no soft internal components
- Coatings optimized for lockhopper applications
- Performance Guarantee

1 Heavy-duty mounting flange provides actuator support and allows body to absorb torque load
2 Dual-guided stem design ensures precise alignment and eliminates lateral movement
3 Blowout-proof stem design meets industry safety standards
4 Simple conical-disc spring design provides pressure-energized sealing
5 Metal seats wipe sealing surface of ball clean during operation

Options

- Cast or forged body; 2 or 3-piece
- Process and customer-specific body & trim materials
- Process and customer-specific coatings
- Liners or inlays for through-bore or wetted surfaces
- Optimized purge system design
- Pneumatic or hydraulic actuation

Sample Installations



This 16-inch 600 ASME class valve was installed for 550° F at 1095 psig (290° C at 75 bar g) lockhopper isolation service. Several of these valves withstood over 50,000 cycles.

This 20-inch 900 ASME class valve with electrical-hydraulic actuator cycles every 30 minutes in operating conditions of 248° F at 1262 psig (120° C at 87 bar g.)

This 16-inch 900 ASME class valve was installed for slag water service, cycling every 30 minutes in operating conditions of 248° F at 943 psig (120° C at 65 bar g.)

MOGAS®
SEVERE SERVICE BALL VALVES

Valves for Gasification

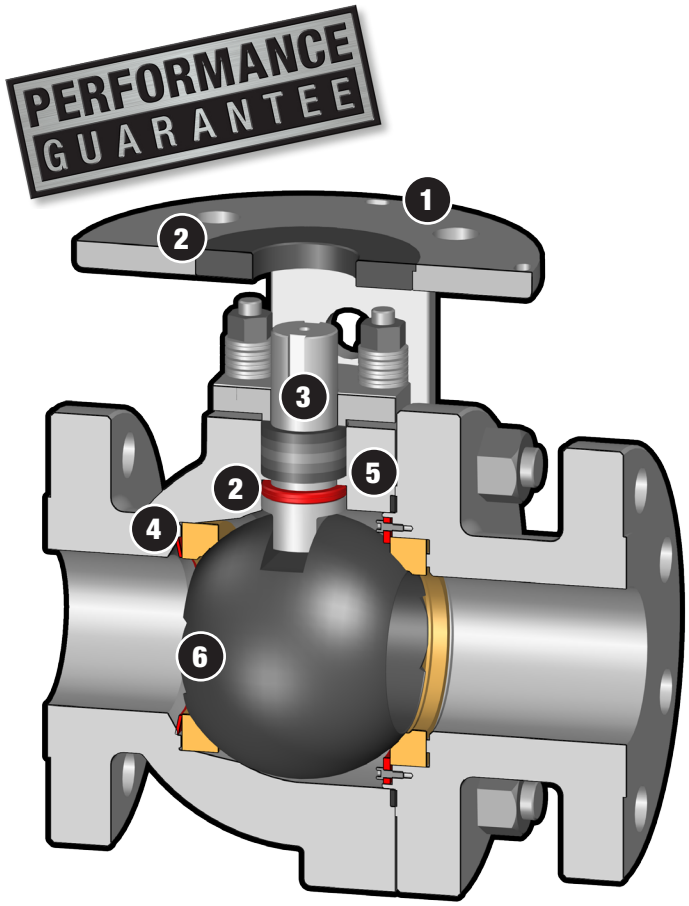
Oxygen Service – Floating Ball Design

Model: CA-1AS

Metal-seated floating ball valve
ASME/ANSI B16.34 design
3 to 24 inch (80 to 600 DN)
ASME 600, 900 and 1500 Class

Features

- Suitable for temperatures >400° F (>204° C)
- Fire safe design
- Low fugitive emissions
- In-house cleaning for oxygen service ensures quality control
- Performance Guarantee

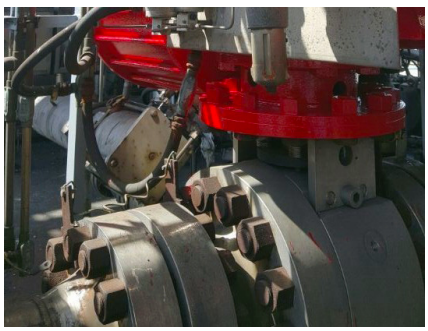


1 Heavy-duty mounting flange provides actuator support and allows body to absorb torque load
2 Dual-guided stem design ensures precise alignment and eliminates lateral movement
3 Blowout-proof stem design meets industry safety standards
4 Simple conical-disc spring design provides pressure-energized sealing
5 Body gaskets and stem packing are approved for oxygen service
6 Double arcuate cut ball modifies velocity profile

Options

- Cast or forged body; 2 or 3-piece
- Process and customer-specific body & trim materials
- Process and customer-specific coatings
- Pneumatic or hydraulic actuation

Sample Installations



Located at a gasification project in China, this 8-inch 1500 ASME Class valve is for high-temperature oxygen service.

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SEVERE SERVICE BALL VALVES

Valves for Gasification

DATA SHEET

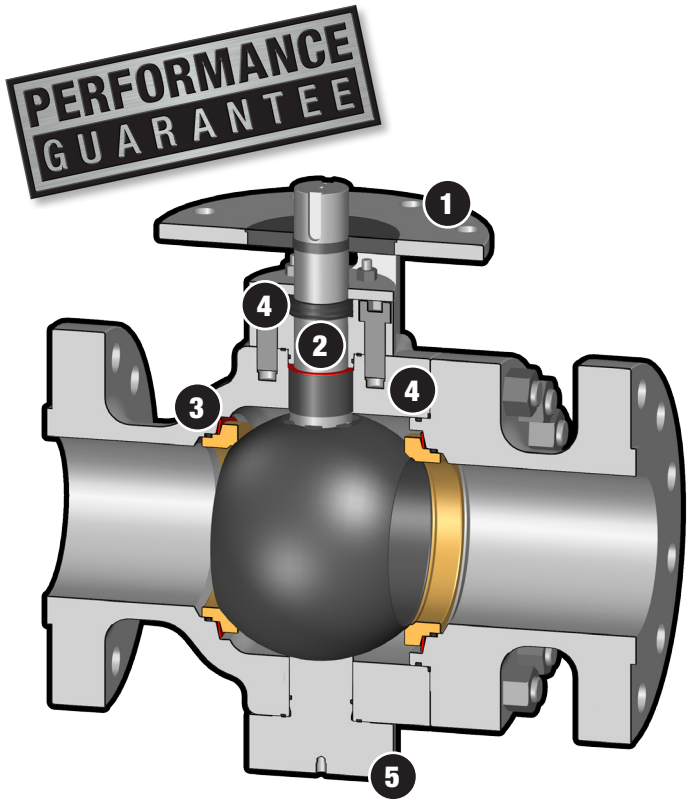
Oxygen Service – Trunnion Ball Design

Model: TMS

Metal-seated trunnion ball valve
API 6D design
2 to 24 inch (50 to 600 DN)
ASME 300 to 1500 Class

Features

- Suitable for temperatures <400° F (<204° C)
- Fire safe design
- Low torques required
- Low fugitive emissions
- In-house cleaning for oxygen service ensures quality control
- Performance Guarantee

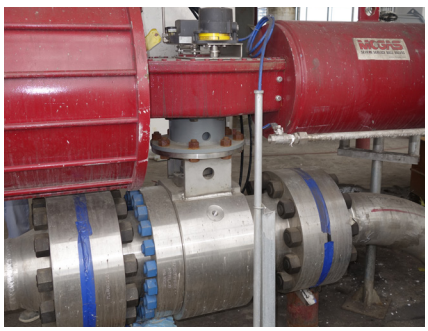


1 Independent actuator mounting pad allows body to absorb torque load
2 Blowout-proof and anti-static stem design with upper and lower stem bearings
3 Simple conical-disc spring design is particle tolerant and provides consistent support around seat circumference
4 Body gaskets and stem packing are approved for oxygen service
5 Plug style trunnion design enhances serviceability

Options

- Cast or forged body; 2 or 3-piece
- Process and customer-specific body & trim materials
- Process and customer-specific coatings
- Pneumatic or hydraulic actuation

Sample Installations



Located at a gasification project in China, this pneumatically actuated 10-inch 1500 ASME Class valve operates in conditions of 77° F at 1262 psig (25° C at 87 bar g.)

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