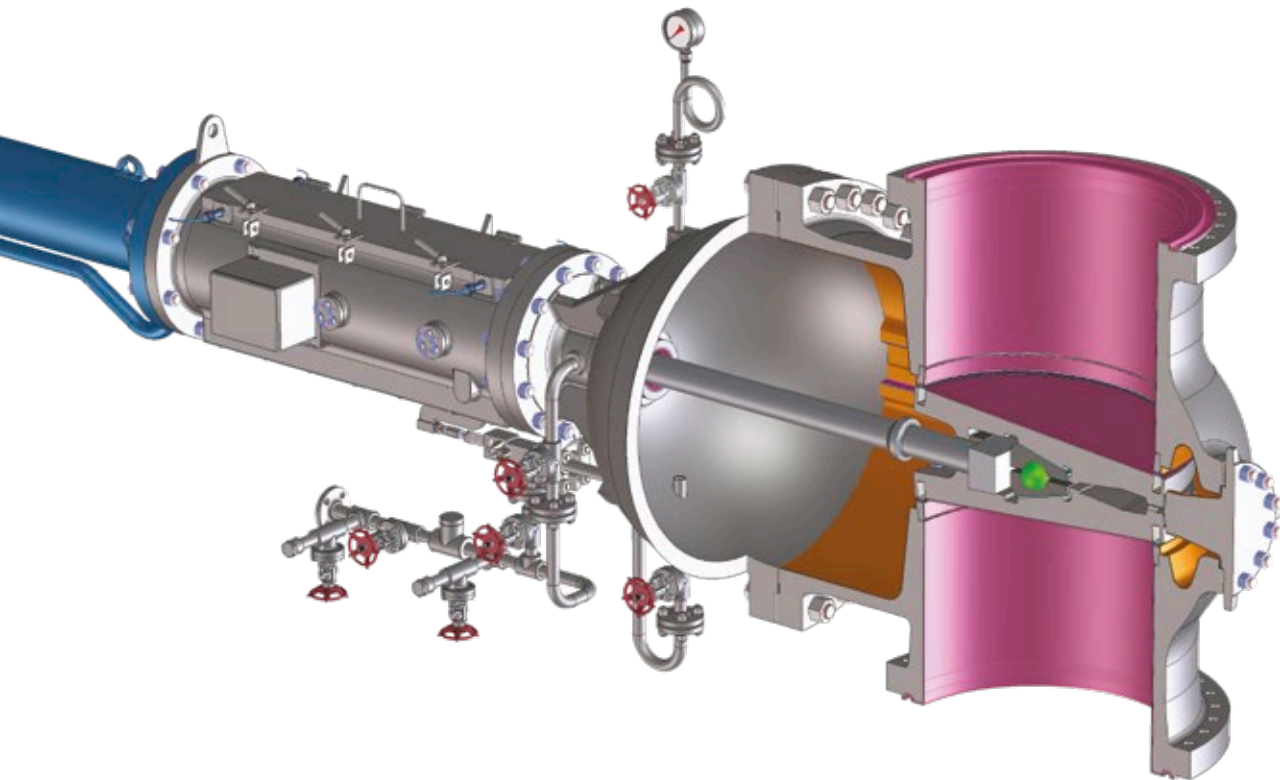


Wedge-within-Wedge Isolation Valve



Double Disc Wedge-within-Wedge

Wedge-within-Wedge Type Gate Valve

IMI Z&J introduced the wedge-within-wedge gate valve to the market and we have more than 60 years of experience in the industry. Its design is most suitable for extreme operating conditions of high temperature, high pressure, line stresses and high frequency of operation.

Key features

- > Double disc design available as:
 - double block and purge
 - double block and bleed
- > Metal to metal seating
- > Rising stem (O&Y type)
- > Round, oval or flat valve designs available
- > With flanges or butt-weld ends



IMI Z&J have been producing valves for over 100 years

Benefits

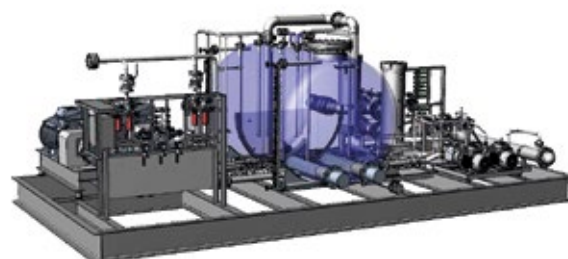
- > No jamming of the discs, even under the most stringent operating conditions
- > During actuation of the wedges the discs collapse and are free to be moved
- > Tightness and flexibility are achieved by the discs being pressed via a central ball between the internal wedges
- > Minimum wear due to very short travel contacts on the sealing seats
- > Under low differential pressure seat surfaces free of wear due to axial pressing in closed position
- > Available with electric, hydraulic or pneumatic actuator



Can be designed as a round, oval or flat type valve

Applications

- > Dehydrogenation / Olefin Conversion plants
- > Isosiv / TIP-units
- > Cyclic Powerformer units
- > Reactor Isolation



Hydraulic Power Units are used to actuate Isolation Valves in many processes

Product details

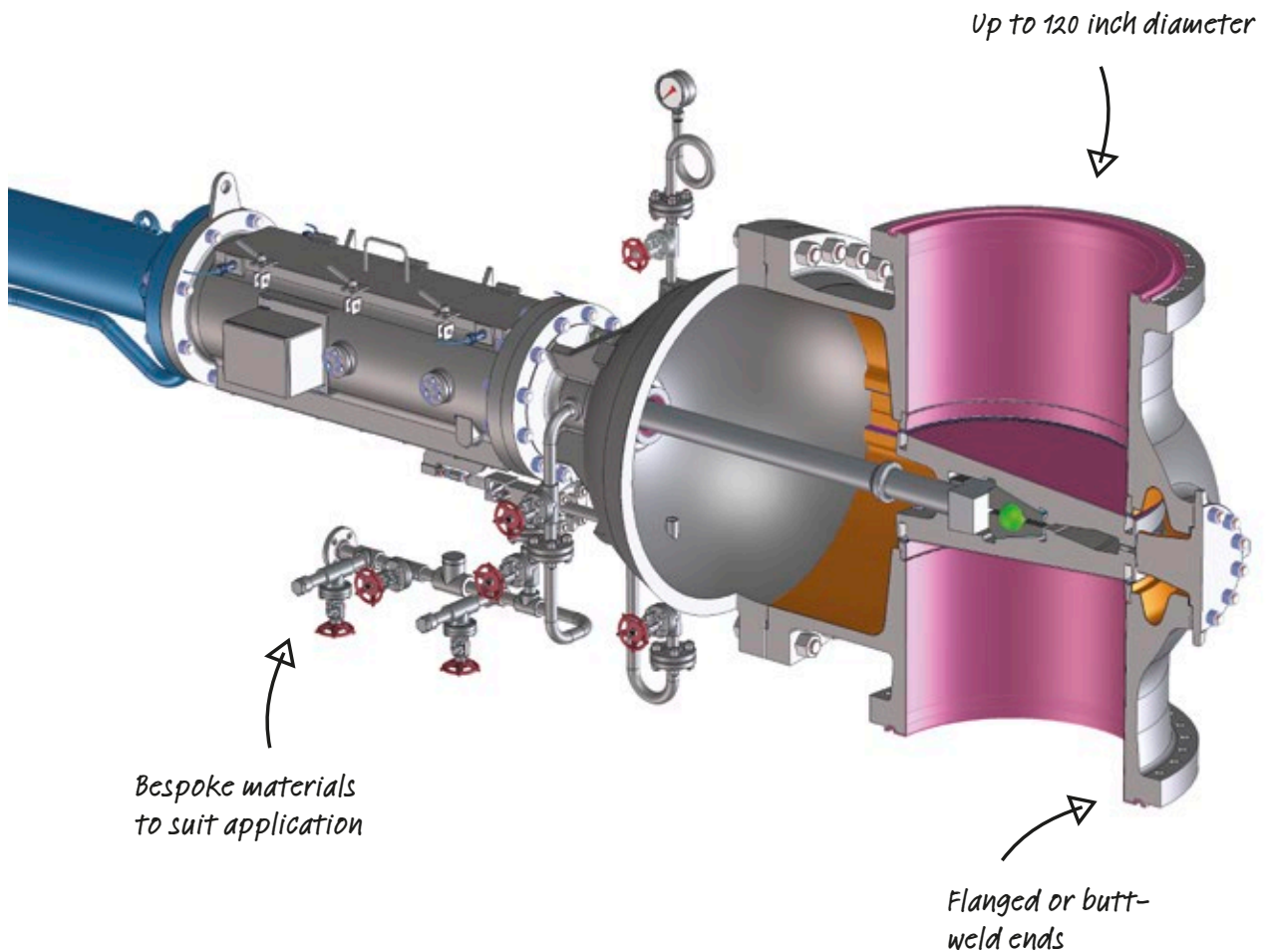
- > Engineering and materials according to operating conditions and licensors specifications
- > Rating up to 600 lbs
- > Operating temperature up to 1900 °F (1050 °C)
- > Sizes up to nominal diameter 120 inch
- > In accordance with German, ANSI or other standards



A hydraulic control unit used to actuate Isolation Valves in dehydrogenation processes

Hydraulic system

- > According to specification and optimized for reactor sequence
- > Redundant main pump & circulation circuit
- > Optimized fluid conditioning (level, temperature, monitoring)
- > Piston accumulator station with additional nitrogen bottles
- > Control panel for each reactor valve
- > Automatic control via solenoid valves (manual override optional)
- > Pneumatic driven emergency portable cart



IMI Z&J Germany

Z&J Technologies GmbH
Bertramsweg 6
D-52355 Düren
Germany
Tel: +49 (0)2421 691 0
Fax: +49 (0)2421 691 200
E-Mail: imizandj.germany@imi-critical.com
www.imi-critical.com

IMI Z&J Houston

4525 Kennedy Commerce Drive
Houston
TX 77302
USA
Tel: +1 281 446 8000
E-Mail: imizandj.usa@imi-critical.com
www.imi-critical.com

IMI Critical Engineering

Lakeside, Solihull Parkway
Birmingham Business Park
Birmingham B37 7XZ
United Kingdom
Tel: +44 (0)121 717 3700
Fax: +44 (0)121 717 3701
www.imi-critical.com