

FRISCH
ENGINEERED PRODUCTS INC.

CORPORATE OFFICE/PLANT

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Battleford, SK S0M 0E0

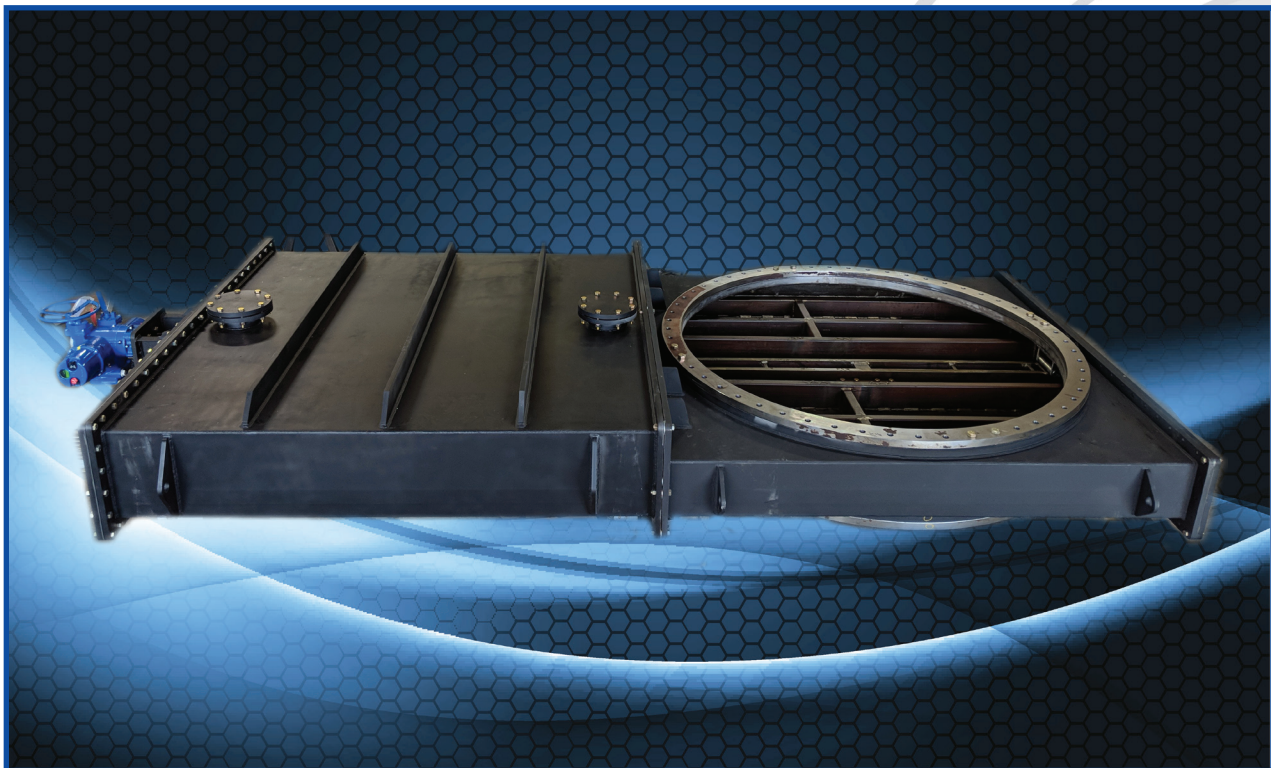
Canada

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www.frischvalves.com

Gate Valves



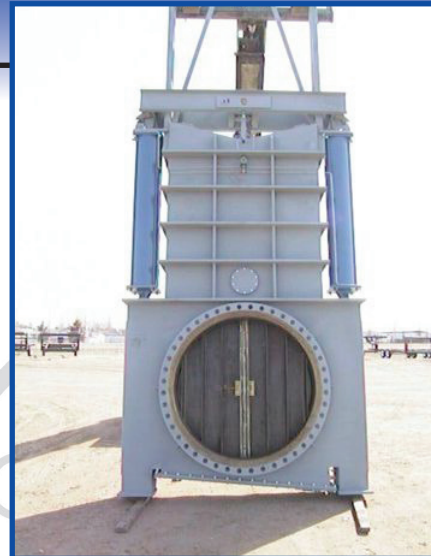
84" Non-Rising Stem Gate Valve

www.frischvalves.com

GATE VALVES



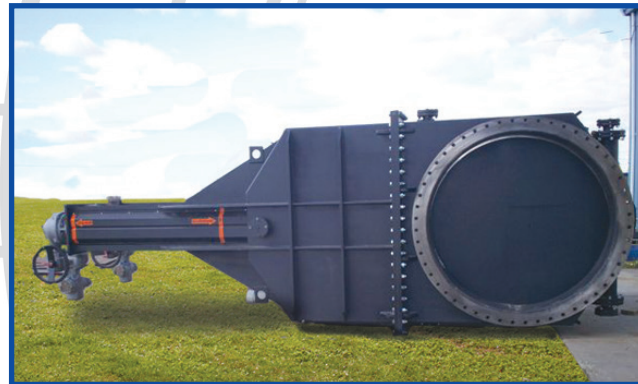
1700mm Flex Wedge Gate Valve



54" Rolling Slide Gate Valve for blower inlet isolation 7.6 PSIG @ 600°F



54" Double Block & Bleed Gate Valve



60" Double Disc Gate Valve



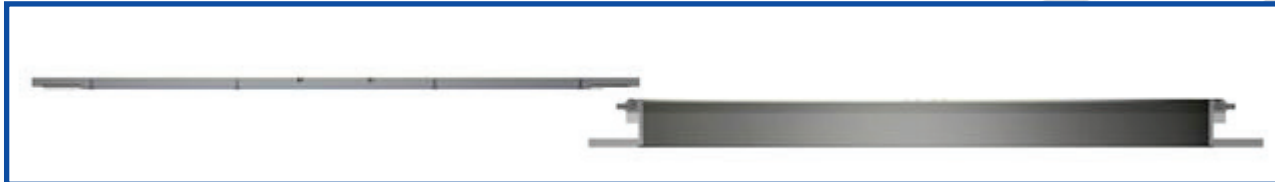
24" & 30" Zero Leakage Gate Valves



135"x70" Guillotine Gate

DESIGN OPTIONS

SEATS



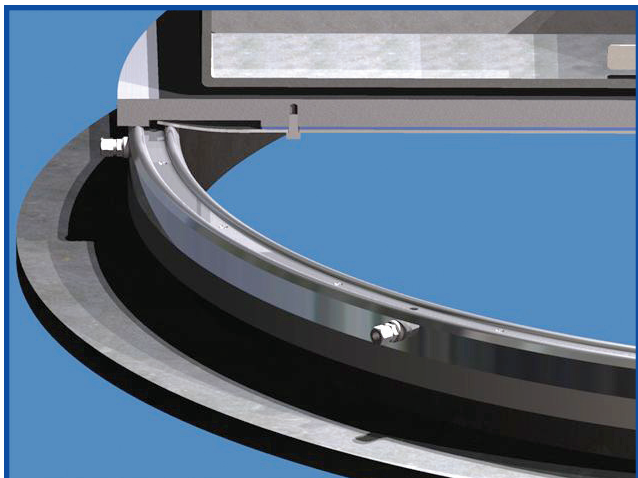
Gate Full Open



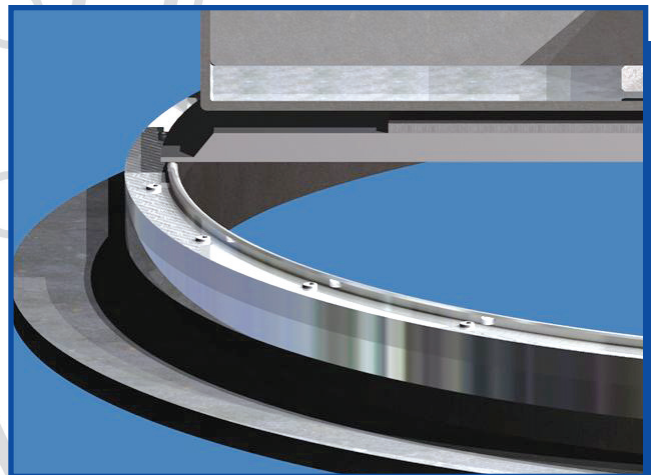
Positioned to Close (1st Stage)



Gate Fully Closed (2nd Stage)



Double Block & Bleed Seat



Single Seat

FEATURES

Two Stage Guided Opening and Closing

1st stage: The gate moves across the throat to the seating wedges

2nd Stage: The wedges force the gate on to the seat as it reaches the full closed position

- Gate assembly is on rollers
- Rounded seat profile
- Customized design and fabrication

BENEFITS

- Minimizes galling, associated with these operations in regular slide valves or guillotine dampers, helping to maintain the tight seal
- Ensures smooth travel of gate from full open to full closed position and vice versa
- Allows a single point metal to metal contact between gate and seat ensuring very tight seal
- Meets the exact requirements of each client

CORPORATE PROFILE

Frisch Engineered Products' Corporate Mission is to provide every customer with **reliable valves** for the **best price without compromising quality**. Our **corporate commitment** is to maintain a worldwide reputation of **distinction in the fabricated valve market**. Our **seasoned personnel, insightful and innovative management systems**, and a **tightly controlled quality assurance** program ensure timely delivery of the technologically advanced valves our customers can depend on.

Frisch's team is comprised of leaders in engineering, marketing, finance, and manufacturing. Since 1988 our products for **severe service applications** have been meeting the **most rigorous requirements** of world leaders in industry and government.

Frisch manufactures a complete range of valves for low pressure, high temperature, erosive and corrosive services. We also provide comprehensive packages for actuation and control. Each package is custom engineered to specific customer requirements. We are capable of supplying valves for services to **50 psi and 3000°F**.

The Frisch Team has serviced the following industries:

- Coal Gasification
- Carbon Black
- Metals Refining and Smelting
- Oil Refining
- Petro Chemical
- Power Generation
- Pulp and Paper
- Steel Mills
- Sulphuric Acid Plants
- Waste Incineration and Management
- Waste Water Treatment

The plants above use our products in the following areas:

- Bag Houses
- Catalytic Cracking Units
- CO Boilers
- Control or Isolation of Flue Gases
- Control and Isolation of Process Gases
- Dust Collection Systems
- Fume Collection & Incineration
- Reactor Inlet and Outlet
- Sulphur Burning Furnaces
- Sulphur Recovery
- Turbo Expander Isolation and Control
- Waste Gas Recovery Systems
- Waste Heat Boilers

Contact Frisch for assistance to solve **all your severe service** fluid control and shutoff problems.

PRODUCTS

Frisch valves and dampers include a wide variety of types and sizes of **butterfly, angle, diverter, guillotine, gate, and refractory lined** designs. Valve seats and seals of creative design configurations progress from swing-through for **precise low pressure flow** control to machined hard faced seats for **very tight shutoff** to FCI 70.2 Class V.

Sizes: 2' to 144" for the products listed to the right.

Pressure Classes to ANSI 1500

Services temperatures from -400°F to 3000°F.

We manufacture the following products:

Butterfly Valves

Rubber Seated, Metal Seated, Swing Through

Slide Gate Valves

Parallel, Wedge Type, Refractory Lined

Multi Blade Dampers

Parallel or Opposed Blade, Refractory Lined

Angle Valves

Metal Seated, Refractory Lined

Diverter & Mixing Valves

Y or T Configurations, 2, 3, or 4 Way

FRISCH FIGURE NUMBER SYSTEM

Eg.: 20 : 0010 : - RF : -AA : -AE

VALVE TYPE : DESIGN PRESSURE : BODY END STYLE : BODY MATERIAL : TRIM AREA

Butterfly Valve, designed for 10 PSI @ 800°F, with Raised Face Flanged Ends, Body is Carbon Steel, and Trim is 304 Stainless Steel

FRISCH VALVE TYPE

- 20 - Concentric Butterfly Valve or Damper
- 21 - Butterfly - O-Ring Single Offset
- 22 - Butterfly - Double Offset
- 23 - Triple Offset Valve
- 24 - Unassigned
- 25 - Refractory Lined Butterfly
- 30 - Plug/Jug Valve
- 31 - Poppet Valve
- 35 - Refractory Lined jug Valve
- 40 - Unassigned
- 50 - Multi Blade Louver
- 55 - Multi Blade Refractory Lined Louver
- 60 - Flex Wedge Gate Valve
- 62 - Double Block & Bleed Gate Valve
- 65 - Refractory Lined Gate Valve
- 70 - Check (discontinued)
- 80 - Diverter - T
- 85 - Diverter - T - Refractory
- 90 - Diverter - Y
- 95 - Diverter - Y - Refractory

DESIGN PRESSURE

0001- 1- 9999 Psig

BODY END CONNECTION/ BODY STYLE

- BW - Butt Weld Ends
- FF - Flat Face Flange
- RF - Raised Face Flange
- RT - Ring Type Joint Flange
- LG - Lugged Body
- WF - Wafer Flange
- ZZ - Other - Specify

BODY MATERIAL

- AA - A36/44W Carbon Steel
- AB - A516GR70/A216WCB/A105
- AC - A387GR11/A217WC6/A182F11
- AD - A387GR22/A217WC9/A182F22
- AE - A240T304/A351CF8/A182F304
- AF - A240T304H/A351CF8/A182F304H
- AG - A240T316/A351CF8M/A182F316
- AH - A240T347/A351CF8C/A182F347
- AI - Inconel 625/A494CW6MC/B564NO6625
- ZZ - Other - Specify

TRIM MATERIAL

Same Code As Body

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