

STOCK KNIFE GATE VALVES

Part of the Stock Product Line



Stock Knife Gate Valves (KGV) are specially constructed valves designed for extreme service. These valves are used for the isolation of material feed downspouts located between the pulverizer and feeder, allowing safe access and maintenance of the feeders without exposure to dangerous hot air. The KGV is suitable for adverse conditions usually experienced in power plants and bulk material handling applications with operating temperatures up to 700°F. The knife gate valve is ideal for feeder discharge isolation, shut-off at the outlet of a fly ash hopper, or for processes where high temperatures and/or pressures are experienced.

Because of their positive shut-off capabilities, Stock KGVs are highly desirable for isolation in the burner line between a burner and pulverizer. This ability to isolate portions of the burner line allows routine maintenance to be performed safely.

Stock has developed a Knife Gate Burner Line valve in accordance with the National Fire Protection Association (NFPA) standard. The standard requires

burner line isolation at the pulverizer and at the burners to provide safety during the operation and maintenance of pulverized fuel firing systems.

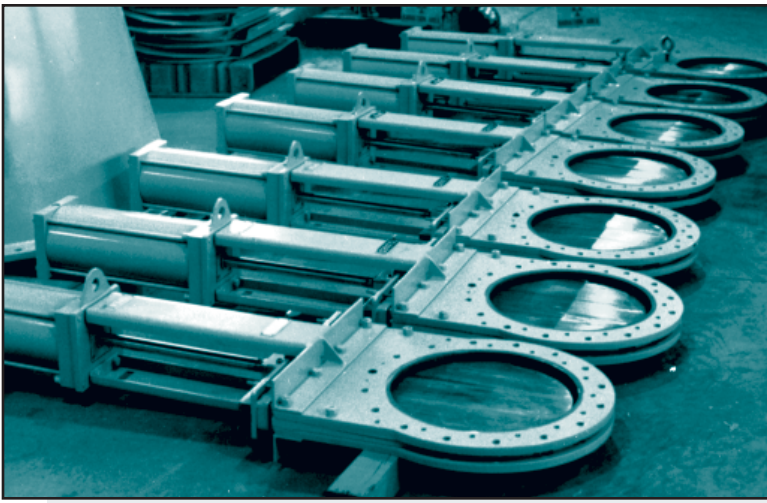
Stock Knife Gate Valves are designed for adverse conditions. They are made to handle high velocity material dust and fly ash contamination, limited maintenance access, and infrequent valve operation. These valves will maintain operational integrity after continuous exposure to internal flow of high velocity material and air mixture. Stock KGVs meet the individual requirements necessary to provide containment of explosion pressures as required by the NFPA standard.

Stock KGVs feature a low profile that adapts to new installations or retrofits. To isolate a pipe, the actuator turns the screw through its housing, which slides the knife gate into the pipe. As the valve seats, the gate seating cams lift and wipe the gate's edge clean for a tight seal. The packing gland keeps any dust from leaking out of the valve, and the tungsten carbide surface treatment slows valve surface wear. When retracted, no portion of the gate remains in the pipe, so the flowing coal does not wear the gate. Because of the tight seal provided by the gate seating cams, there is minimal leakage of gas, so workers can maintain the pulverizer without being subjected to extreme hot gases and dust.

Options

- Special metals, packing and paint can be used for operating temperatures up to 1,000°F.
- Custom operators can be designed to meet special requirements, such as fast closing time or minimum rim pull.
- Special bolting patterns and valve sizes can be designed to fit most custom and lined pipes.
- Complete pneumatic control packages with limit switches and solenoid valves can be piped and wired for immediate connection to power and control sources.

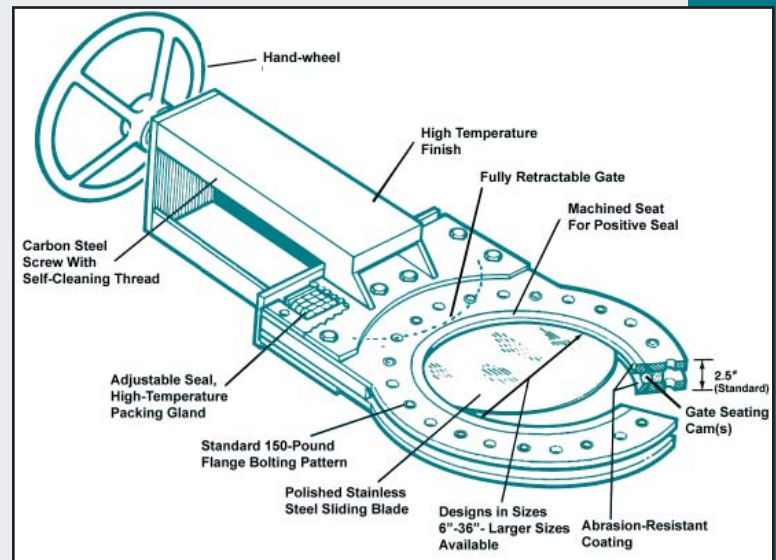
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Features of the

Stock Knife Gate Valve

- **Low Profile Design:** Maintains 2-1/2" or 3" flange-to-flange dimension to minimize space requirements. Adapts easily to new installations and retrofits.
- **Fully Retractable Gate:** Stainless steel gate is resistant to most corrosions and is polished to prevent damage to packing seal.
- **Gate Plow:** Cleans material from the gate guide during gate closure to prevent binding.
- **Tungsten Carbide Coated Wear Surfaces:** Protects the surface from abrasion to provide extended service life.
- **Gate Seating Cam(s):** Forces gate into a tight, metal-to-metal seal to minimize leakage.
- **Adjustable, High Temperature Packing:** Provides for external adjustments of the packing to compensate for wear. The packing is suitable for temperatures up to 700°F.
- **Self-Cleaning Actuator:** Cleans dust from threads as a screw passes through a thread-cutting actuator nut, to ensure minimum force is required to operate.
- **Anti-Friction Thrust Bearing:** Aligns and supports the actuator screw, reducing axial forces.
- **Manual Operator:** Come with standard hand-wheel operator. Optional operators include stub shaft (for use with pneumatic wrench), pneumatic cylinder, and electric motor actuator.
- **Standard Bolting Flanges:** Bolts to ANSI standard flanges for easy installation.
- **High Temperature Finish:** Protects the exterior surface from rust and corrosion, even at high temperatures.
- **Complete Factory Support:** Application assistance, Stock field service, and one-year warranty ensure complete satisfaction.



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