

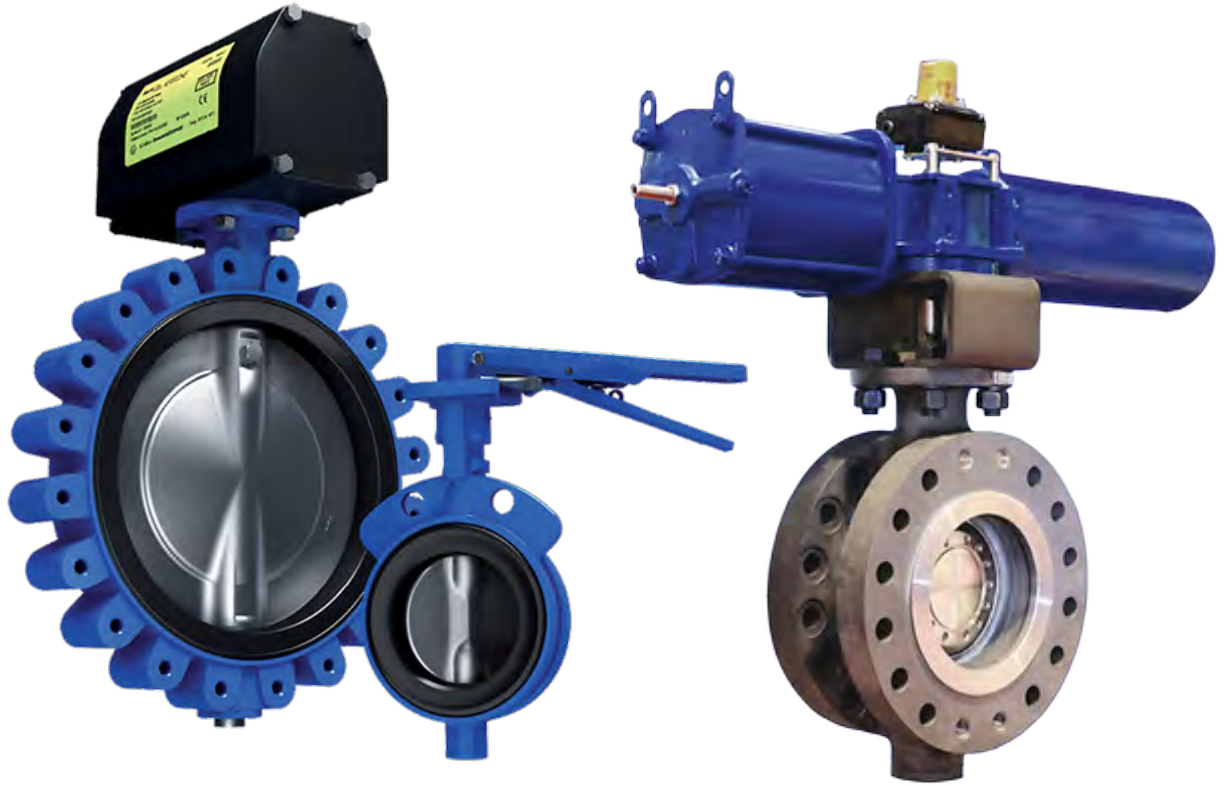
Valve  
Actuation

Steam

Instruments

Hot Water

Industrial  
PVF



**YOUR MOST  
VALUABLE PARTNER**

**FOR KEYSTONE  
PRODUCTS**

**PipeValves**  
Since 1963

[www.PipeValves.com](http://www.PipeValves.com)  
800.467.7122

Warning: Do not use this literature in place of reading, understanding, and following the manufacturer's spec sheets and operator's manual instructions which are available on their website.



## KEYSTONE

### Keystone Series 221/222 Butterfly Valves

#### Description:

This is an economical bonded resilient seated butterfly valve for bi-directional and end-of-line service. It is used with pumps, air, utilities, facilities evaporators, dryers, dust collection systems, cooling water, air circulation, balancing, blowers, compressors, and chillers.

#### Size:

- Ranges from 2" to 12"

#### Features and Benefits:

- An economical bonded resilient seated butterfly valve for bi-directional and end-of-line service
- F221 Wafer style valve • F222 Lugged style valve
- Ideal for building services and irrigation applications that require shut-off control.
- The valve has a molded in seat and can be used in full vacuum service.
- Bubble tight shut-off at full rated pressure in both directions.
- The F222 lugged version is suitable for bi-directional end-of-line service.
- Top and bottom bearings absorb side thrust loads.
- A molded-in O-ring in the seat for flange sealing eliminates the need for gaskets.
- Body locating holes for easy installation and centering between flanges.
- Standard actuation: Handles (F401) on NPS 2 - 8 valves.
- Gear operators (F427) on NPS 10 - 12 valves.

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## Keystone Series

### GR Resilient Seated Butterfly Valves

#### Description:

The GR series is a heavy duty industrial resilient seated butterfly valve. It is used with compressors, conveyors, cooling water, blowers, utilities, air circulation, storage systems, and conversion systems.

#### Size:

- Ranges from 2" to 36"

#### Features and Benefits:

- Wafer and lugged body design with face-to-face dimension, according to EN 558 Series 20 and API 609. Designed according to EN 593 and API 609.
- The seat is field replaceable and fully isolates the body and shaft from the flow.
- Primary shaft sealing exceeds the pressure rating of the valve and prevents leakage through shaft area to atmosphere.
- A secondary shaft sealing provides back-up safety.
- A molded-in O-ring in the seat for flange sealing eliminates the need for gaskets.
- Shaft seals prevent moisture penetrating the shaft area.
- The two-piece shaft allows for a thin disc and provides minimal obstruction to flow (up to DN 300/ NPS 12).
- Rounded polished disc edge gives full concentric sealing, lower torques, longer seat life and drop-tight shut-off.
- Body locating holes allow ease of installation and centering between the flanges.
- Extended body neck allows for pipe insulation.
- Top and bottom shaft bearings for optimized support and minimum friction and decreased torque.
- Top bushing absorbs actuator side thrust loads.
- All valves comply to Pressure Equipment Directive (2014/68/EU) Module B + D, CE Marking.
- Available approvals: NSF/ANSI 61, ACS, KIWA, WRAS, DVGW-G, ABS, CU-TR.
- GRW – Wafer body design; GRL – Lugged body design

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## Keystone K-Lok Series 36/37

### Double Offset High Performance Butterfly Valves

#### Description:

The Keystone K-LOK Series 36/37 is a high-performance butterfly valve rated to ASME Class 150 and 300, available in wafer, lugged and flanged style. The unique design does not rely on pressure to assist sealing and therefore seals at high and low pressures, as well as dirty services.

#### Features and Benefits:

- K-LOK polymer and elastomer seats provide bi-directional, drop-tight shut-off in vacuum as well as at full rated differential pressure. Its unique design does not rely on pressure to assist sealing therefore seals at high and low pressures, as well as dirty services. A variety of materials allows optimum seat life in all applications.
- Blow-out resistant shaft is standard on all valves for increased safety
- Unique packing design allows for use in pressure as well as vacuum without modification or special assembly.
- Disc taper pins are tangentially positioned half in disc and half in shaft, placing them in compression rather than shear, which eliminates potential for failure.
- Rocker-shaped gland bridge compensates for uneven adjustment of gland nuts reducing packing leaks.
- Integrally cast disc position stop perfectly locates the disc in seat, achieving maximum seat and seal life.
- Extended neck allows for 50 mm of pipeline insulation.
- Integrally cast mounting pad provides direct mounting of actuators eliminating the need for costly brackets and couplings.
- Flattened body bore at shaft journal ports positions shaft bearings near disc, providing maximum shaft support resulting in reduced wear and longer life.

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## KEYSTONE

### Vanessa Series 30000 Triple Offset Valves

#### Description:

The Vanessa triple offset design eliminates any rubbing action of the sealing elements during the 90 degrees of rotation. This valve is capable of handling isolation and process control across oil & gas, process, and power industries.

#### Features and Benefits:

- Robust & fire-resistant all-metal construction
- Stellite grade 21 seat overlays provide excellent durability
- Resilient metal seal ring ensures perfect seating force distribution around precision-machined seat circumference
- Easily replaceable multi-layered duplex and graphite seal rings
- Robust one-piece shaft designed to transfer/maintain torque efficiently
- Two-piece packing gland and graphite packing minimize external emission risk
- Key secured shaft-to-disc connection for maximum shaft integrity
- Heavy duty bearings withstand high pressure loads and wear
- Braided graphite bearing protectors prevent dirt intrusion, ensuring constant running torque and valve operability
- Internal and external shaft extrusion risk-handling complies with international standards
- Flange spot facing ensures bolting nut and washer planarity, increasing joint reliability and safety
- Open/closed disc references and external disc position indicator simplify installation/removal procedures to API 609

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## Keystone F89 Pneumatic Quarter-Turn Actuator

### Description:

The Keystone F89 is a pneumatic quarter-turn actuator for general purpose and hazardous area applications. The F89 is designed for simple, safe use and ultimate reliability, meeting EN15714-3 requirements and has been validated to 500,000 cycles under specified conditions.

### Features and Benefits:

- Direct mounting to all Keystone butterfly valves and ball valves.
- Valve connection compatible with Keystone (imperial and metric) and ISO 5211
- Double Rack and Pinion design nullifies side loads on the pinion shaft, minimizing bearing wear and extending life.
- Optimized product flow with standard mounted travel stops for valve position adjustment in open and close position
- Anodized aluminum body with electrostatic powder coating (ESPC) finish provides durable protection against corrosive environments.
- Double acting and spring return versions available for cost effective and safe operation.
- Up to 12 individual springs offer flexible torque range for both ball and butterfly valves.
- Pre-compressed spring design and anti-blowout drive pinion means safe maintenance and operation.

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## Keystone EPI 2 Electric Actuator

### Description:

The EPI2 series of electric actuators are compact, intelligent, quarter-turn electric actuators for the accurate control of valves with torques from 35 to 2000 Nm / 308 to 17,700 in. lbs.

### Features and Benefits:

- Separate terminal enclosure isolated from the electronics and motor compartment; only the wiring terminal is exposed during field installation
- Standard adjustable torque switches, from 50 to 100% of rated torque output (3 steps 50% - 75% - 100%)
- Manual override always engaged
- Standard protection IP66/68M and NEMA 4/4X/6 enclosure rating with CSA (C-US)
- Explosion proof protection Ex de IIB T5 Gb - FM
- Anodized aluminum with epoxy powder coat to help protect unit in most aggressive environments
- Visual mechanical position indicator for accurate visual reference of valve position
- Direct mounting or readily adaptable to other quarter-turn valves
- Permanently lubricated self-locking gear train helps eliminate the need for motor brakes
- Mechanical travel stops designed to prevent over-travel during hand wheel or motor operation
- Over temperature motor thermostat

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## Valuable Services

Pipe Valves offers the quality products and the best services to improve your bottom-line performance.

- Pipe Shop: We cut, bevel, groove, and thread
- Energy audits, steam trap surveys, live steam lab demonstrations
- Daily local truck routes, emergency delivery options
- Phone, counter, email, fax and e-commerce ordering options
- Express sales counter pickup and tool rental
- Vendor Managed Inventory options customized to your needs
- Product specialists and staff engineers assist with problem solving
- Kitting Services - we can bag and tag to your specifications
- Bin management, bar code scanning and labeling solutions available
- PV University Classes, Where Seeing Is Believing: Actuation, Valves, Steam
- 24/7 emergency service available in many areas