



Your selection of valve technology, matters.



**Isolation Valves**  
Product Portfolio Overview





# Isolation valve technology

## Engineered for your business success

The isolation valves you install in your facility have a direct impact on the performance and profitability of your operations. Your selection of valve technology matters if you are looking to:

- Improve process quality and efficiency
- Increase uptime and throughput
- Minimize fugitive emissions; and
- Eliminate safety risks

Emerson offers a portfolio of superior isolation valve technology that is defined by exceptional sealing tightness, reliable operation, minimal maintenance and a lower total cost of ownership. Our technology is backed by the expertise of our global engineering teams and delivered with the experience of your local partner.

Trust Emerson as your expert partner to optimize your isolation valve assets to help you achieve project delivery success and meaningful improvements in your business performance.

Our leading brands:

**VANESSA**  
**AEV**  
**CLARKSON**  
**KEYSTONE**  
**KTM**  
**NEOTECHA**  
**K-BALL**  
**LUNKENHEIMER**



## Contents

Triple Offset Valves	4
C-Ball Valves	6
Knife Gate Valves	8
Butterfly Valves	12
Process Ball Valves	16
Lined Products	20
Check Valves	21
Angle Slurry & Isolation Valves	22
Global Strength, Local Expertise	24
Automated Valve Solutions	25
Lifecycle Services	26
QuickShip	27

# Triple Offset Valves

Triple Offset

## Triple Offset Valves

Triple offset valves are an alternative solution to traditional process valves providing premium performance, long service life and minimum maintenance in extreme operating conditions.

### Vanessa™

Vanessa triple offset valves are lighter, easier to install and virtually maintenance free, with advanced reliability, durability and reduced total cost of ownership.

\*According to 'Leakage Rate A' when tested with high pressure water and low pressure air of ISO 5208 and EN 12266-1 standards and the 'Resilient Seat Valves' requirement of API 598.

## Automated Valves from a single source

Emerson isolation valves are available as complete automated valve solutions supplied as a single product rather than packaged components.

See page 25 for more details.



### Vanessa Series 30,000 Triple offset valve.

Featuring an integral-to-body seat, these valves are suitable for a wide range of applications including zero leakage\* isolation, on-off, emergency shutdown and pressure/flow control.

#### Features

- Full metal construction.
- Stellite® grade 21 seat overlays provide excellent durability.
- Resilient metal seal ring ensures perfect seating force distribution.
- The one-piece shaft ensures high pressure containment safety/maximum torque seating integrity.
- Two-piece packing gland and graphite packing minimize external emission risk.
- Heavy duty bearings withstand high pressure loads and wear.

#### Technical Data

##### Size range:

DN 80 to 3450 / NPS 3 to 138

##### Pressure rating:

ASME Class 150 to 1500,

EN PN 10 to 250

##### Temperature rating:

-254°C to 815°C / -425°F to 1500°F

#### Industries

Oil and gas, LNG, gas treatment, chemical and petrochemical, power, district heating (HVAC), desalination and water

### Vanessa Series 30,000 Basic configuration.

Suitable for temperatures between -50°C / -58°F and 425°C / 800°F, the Series 30,000 basic configuration is extremely robust and inherently fire-resistant thanks to its all metal construction.



### Vanessa Series 30,000 High temperature configuration.

The high temperature configuration is suitable for applications up to 815°C / 1500°F. The valve is designed to compensate for the thermal expansion of components and to withstand 'material creep' at temperatures over 600°C / 1112°F. The extended bonnet helps to maintain the packing operating temperature which greatly reduces the risk of fugitive emissions.



**Vanessa Series 30,000**  
Cryogenic configuration.

Series 30,000 cryogenic valves feature an extended bonnet, which meets the requirements of BS 6364, and are constructed from materials carefully selected to match pipe specification and project requirements while also being unaffected by cryogenic conditions and severe temperature fluctuations.



**Vanessa Series 30,000**  
Cryogenic butt weld top entry.

When an inline maintenance capability is mandatory, this design allows for access without removing the valve body from the line. The entire valve trim can be removed from the body and individual valve parts can be accessed in total safety.



**Vanessa Series 30,000**  
Liquid oxygen (LOX).

This Vanessa Series 30,000 Triple Offset Valve configuration features a full metal construction, frictionless trim rotation, and torque seating. This, combined with innovative material selection and a dedicated manufacturing process, ensures outstanding isolation and control functions at cryogenic temperatures in liquid oxygen (LOX) applications.



**Vanessa Series 30,000**  
Molten salt solutions.

A 'molten salt' valve has been specifically designed for solar power generation applications. The butt weld body style features an extremely compact design that fully integrates with the pipeline and significantly reduces thermal dissipation simplifying the piping insulation design.



**Vanessa Series 30,000**  
Sulfur recovery solutions.

Series 30,000 valves featuring a thermal jacket, bearing flushing and with suitable material selection have long proven to be the key solution for both ON-OFF and by-pass functions within the catalytic section of SRUs and for the handling of tail gas.



**Vanessa Series 30,000**  
Gaseous oxygen (GOX).

This Vanessa Series 30,000 Triple Offset Valve configuration features a full metal construction, frictionless trim rotation, and torque seating. This, combined with innovative material selection and a dedicated manufacturing process, ensures outstanding isolation and control functions at high pressures in gaseous oxygen (GOX) applications.

# C-Ball Valves

## C-Ball Valves

A double eccentric C-ball valve is similar in principle to a conventional ball valve, but with a half ball that makes a "C" shape. This C-shaped ball rotates on two planes of motion with energy from the stem to close and seal against a fixed seat.

## AEV™

Emerson's latest innovation, the AEV C-Ball Valve, is set to revolutionize the way you think about ball valves in the isolation of your cryogenic and critical service processes. With its breakthrough "C" shaped ball design, the <sup>2</sup>XC™ ball valve delivers positive isolation, with improved safety, reliability and long term trouble-free operation.

## Automated Valves from a single source

Emerson isolation valves are available as complete automated valve solutions supplied as a single product rather than packaged components.

See page 25 for more details.

## Double Eccentric C-Ball



## AEV <sup>2</sup>XC™

Double eccentric C-ball valve.

The AEV <sup>2</sup>XC deploys a breakthrough C-ball design that delivers unrivalled torque and position seated isolation, with improved safety, reliability and performance.

## Features

- The "C" shaped ball design eliminates the ball cavity and with it, the inherent risk of trapped product.
- The unique combination of torque and position seating achieves bi-directional tight shut-off through mechanical sealing.
- Reduce emissions with the torque seated design that eliminates dynamic seals and also features an ultra low emission packing system.
- Enjoy a high cycling life with non-rubbing rotation and a cavity-free design.
- Engineer cost out of your project with this true bi-directional valve that requires no venting, allowing streamlined pipe routing and fewer isolation valves.
- Designed and tested to meet and exceed the most stringent industry standards and is certified to Shell TAT, SIL 3 capable, Fire-safe and Fugitive Emissions.

## Technical Data

### Size range:

DN 15 to 1050 / NPS 1/2 to 42

### Pressure rating:

ASME 150 to 4500

EN PN 10 to 400

### Temperature range:

-254°C to 538°C / -425°F to 1000°F

## Applications

Cryogenic process isolation, rocket engine testing, critical service, polymers

## AEV <sup>2</sup>XC

Cryogenic.

Optimize your cryogenic processes with superior ball valve technology. The AEV <sup>2</sup>XC design eliminates the ball cavity to improve safety and enables mechanically assured shut-off for zero leakage performance, despite extremes in temperature and pressure.



## AEV <sup>2</sup>XC

Rocket engine testing.

The <sup>2</sup>XC is in a class of its own when it comes to reliable, rapid sealing performance in extreme cryogenic applications. Emerson also has the experience and application expertise to custom-engineer bespoke solutions.



**AEV 2XC**  
Critical service.

Achieve ultimate dependability in critical service applications. The 2XC's design ensures reliable isolation and long service life with non-rubbing rotation and zero cavity for particulate build up that can cause the serious reliability issues seen in traditional ball valves.



**AEV 2XC**  
Mini.

The 2XC Mini delivers the same revolutionary safety and performance in a compact cryogenic valve ideal for OEM's, Marine LNG, and LNG Bunkering.



# Knife Gate Valves

## Knife Gate Valves

Emerson manufactures knife gate valves for light to heavy slurry service in the mining and mineral processing, power, pulp and paper, waste water and chemical industries. Customers rely on our knife gate valves for reliability, longer service life and lower total cost of ownership.

### Clarkson™

Designed for light to medium and arduous duty service suitable in water, process and mining industries, Clarkson high performance knife gate valves can be relied on to deliver a 100% bubble-tight isolation shut off where absolute zero downstream leakage is essential.

## Automated Valves from a single source

Emerson isolation valves are available as complete automated valve solutions supplied as a single product rather than packaged components.

See page 25 for more details.

## General Purpose



### Clarkson Figure 952 General purpose knife gate valve.

Compact, unidirectional valve for high flow rates with low pressure drops.

#### Features

- Self-aligning gland box.
- One-piece 316 SS integral cast body, chest and lugs.
- Integral cast in gate wedges minimize flow obstructions.
- High quality gate finish for optimum sealing.
- Integral RTFE gate scraper and gate guides to support gate.
- Complies with MSS SP-81 face-to-face dimensions.

#### Technical Data

##### Size range:

DN 50 to 600 / NPS 2 to 24

##### Pressure rating:

10 bar / 150 psi

##### Temperature rating:

316 SS seat: 230°C / 445°F

RTFE seat: 150°C / 300°F

FKM seat: 150°C / 300°F

#### Applications

Pulp and paper, metals and mining, oil and gas, power and water

## Perimeter Seated



### Clarkson PCS17 Resilient seated knife gate valve.

A bi-directional valve that ensures zero leakage in either direction.

#### Features

- Unique drop-in perimeter cartridge seats ensure zero leakage and quick and cost-effective maintenance.
- Seat geometry and precision moulding process ensure zero water leakage at low or high pressures.
- In-line replaceable seat.
- Solid cast, one-piece 316 stainless steel body for optimum performance and reliability.
- Complies with MSS SP-81 face-to-face and full port design to Schedule 40.

#### Technical Data

##### Size range:

DN 50 to 750 / NPS 2 to 30

##### Pressure rating:

DN 50 to 600 / NPS 2 to 24: 10 bar / 150 psi

DN 750 / NPS 30: 6 bar / 100 psi

##### Temperature rating:

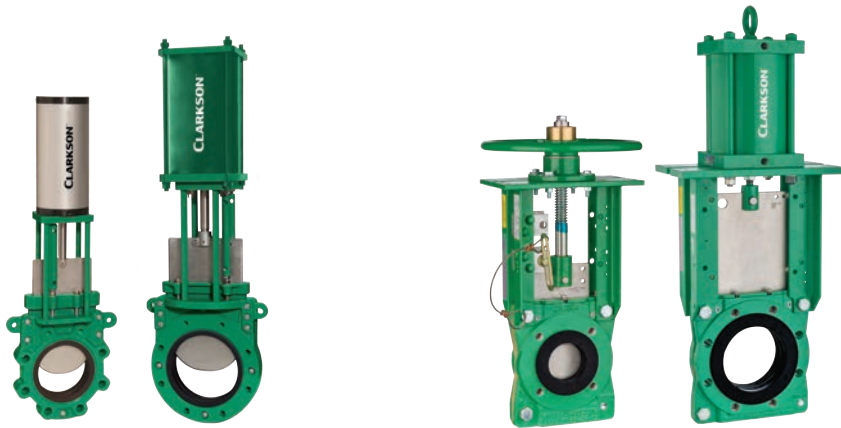
EPDM seat: 150°C / 300°F

NBR seat: 120°C / 250°F

FKM seat: 205°C / 400°F

#### Applications

Pulp and paper, metals and mining, oil and gas, power and water



**Clarkson SU10R/SU16R**  
Slurry knife gate valve.

Bi-directional isolation with a field replaceable snap-in liner that completely protects the wetted area from abrasion and corrosive slurries.

**Features**

- True bi-directional flow and shut-off.
- Unique one-piece, precision molded high strength polyurethane liner protects the wetted parts, from corrosion and abrasion.
- The liner has integral sealing beads to support and wipe slurry from the gate.
- It can replace conventional and short pattern slurry knife gate valves.
- Compact two-piece split body construction for easy maintenance.
- SU10R is offered with 316 SS gate, with optional 17-4 ph for improved resistance.
- SU16R is offered with a 2205 gate for added corrosion resistance and increased pressure.
- Complies with MSS SP-81 face-to-face dimensions.

**Technical Data**

**Size range:**

DN 50 to 600 / NPS 2 to 24

**Pressure rating:**

SU10R: 1000 kPa / 150 psi at CWP (non-shock)

SU16R: 1600 kPa / 232 psi at CWP (non-shock)

Not suitable for vacuum service

**Temperature rating:**

Standard liner: 50°C / 120°F

High temp liner: 120°C / 250°F

**Applications**

Mining, mineral processing, coal preparation, chemicals and wastewater

**Clarkson KGD**  
Slurry knife gate valve.

A wafer style slurry knife gate valve that offers the latest in elastomer technology with the Clarkson Mark III sleeve design.

**Features**

- 100% isolation, bubble-tight shut-off results in absolutely zero downstream leakage.
- Double-seated design provides bi-directional flow and shut-off.
- Unobstructed flow eliminates turbulence, minimizes pressure drop across valve.
- No seat cavity where solids can collect and prevent full gate closure.
- No gate or stem packing is required, eliminating packing leakage and maintenance.
- No metal parts in contact with the flowing slurry.

**Technical Data**

**Size range:**

DN 50 to 600 / NPS 2 to 24

**Pressure rating:**

DN 50 to 400 / NPS 2 to 16: 10 bar / 150 psi

DN 450 to 600 / NPS 18 to 24: 6 bar / 90 psi

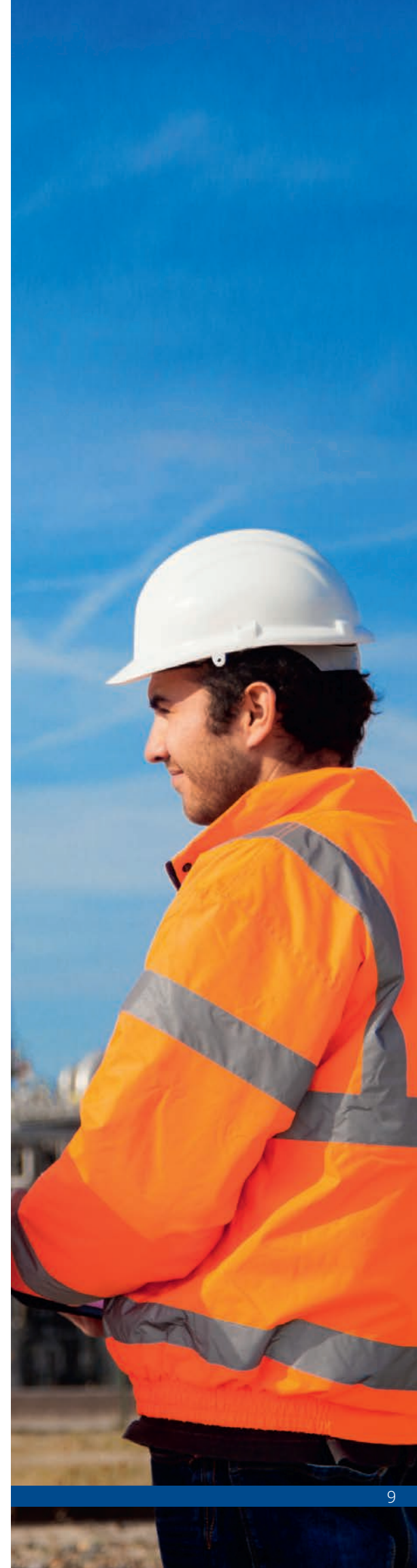
Higher pressure ratings available with select gate materials.

**Temperature rating:**

Up to 150°C / 300°F

**Applications**

Metals and mining and power





#### Clarkson KGA+ Slurry knife gate valve.

A heavy duty slurry valve with new features including an improved secondary seal and full face flanges.

##### Features

- Improved secondary seal is capable of being lubricated without disassembly, simplifying valve maintenance.
- Full flange body design with available flange drilling including ASME B16.5, PN 10 and PN 16 (per DIN and BS standards), and Australian Table D and E (per AS 2129) among others.
- Simplified two-piece body design allows for easier rebuilds.
- Can be used in wet or dry services easily dealing with large, heavy particles and tramp material.
- 100% isolation; bubble tight shut-off results in absolutely zero downstream leakage.
- Heavy duty, field replaceable elastomer sleeves with internal stiffener.

##### Technical Data

###### Size range:

DN 80 to 1500 / NPS 3 to 60

###### Pressure ratings:

DN 80 to 600 / NPS 3 to 24: 7 bar / 100 psi

DN 650 to 1050 / NPS 26 to 42: 5 bar / 75 psi

DN 1200 to 1350 / NPS 48 to 54:

3.5 bar / 50 psi

DN 1500 / NPS 60: 2 bar / 30 psi

###### Temperature ratings:

Up to 205°C / 400°F

##### Applications

Metals and mining and power



#### Clarkson KGF/KGH Slurry knife gate valve.

A heavy-duty, full port elastomer sleeves for isolation against heavy slurries.

##### Features

- 100% isolation bubble-tight shut-off results in absolute zero downstream leakage.
- Double-seated design provides bi-directional flow and shut-off. Field replaceable elastomer sleeves.
- Dynamic, self-adjusting secondary seal.
- Unobstructed flow helps eliminate turbulence and minimizes pressure drop across valve.
- No seat cavity where solids can collect and prevent full gate closure.
- No metal parts in contact with the flowing slurry.
- No gate or stem packing is required, eliminating packing leakage and maintenance.
- Adaptable frame (yoke) design, featuring a top-removal stem nut, can be field modified to an air cylinder or bevel gear in the field.

##### Technical Data

###### Size range:

DN 80 to 900 / NPS 3 to 36

###### Pressure ratings:

KGF: 20 bar / 290 psi max.

Optional gate materials provide

31 bar / 450 psi pressures.

KGH: 51 bar / 740 psi max.

###### Temperature ratings:

Up to 150°C / 300°F

##### Applications

Metals and mining and power



#### Clarkson KS1 Severe service knife gate valve.

A true bi-directional, zero-leakage ASME Class 150 Knife Gate Valve designed for the rigors of severe service applications.

##### Features

- True bi-directional flow and zero leakage shut-off; can be installed in either direction.
- Heavy cross section precision-molded elastomer seat provides more surface area for superior isolation.
- Field-adjustable, patented gate edge seal system prevents leakage through top of valve.
- Enclosed body design prevents any leakage to the outside environment.
- Full round port and seat design offers low pressure drop across valve and longer service life in abrasive applications.
- Standard inlet and outlet replaceable, rotatable Ni-resist wear rings extend service life.
- Modular frame design allows for installation of any standard accessory without modification.
- Fully piggable.
- Available in raised or flat face.

##### Technical Data

###### Size range:

DN 50 to 750 / NPS 2 to 30

###### Pressure ratings:

ASME Class 150

###### Temperature rating:

Up to 205°C / 400°F depending on elastomer

##### Applications

Mining and mineral processing, oil sands processing, pulp and paper, coal preparation, power and steel processing



### Clarkson KS3

#### Severe service knife gate valve.

A true bi-directional, zero-leakage ASME Class 300 Knife Gate Valve designed for the rigors of severe service applications.

#### Features

- True bi-directional flow and zero leakage shut-off; can be installed in either direction
- Heavy cross section precision-molded elastomer seat provides more surface area for superior isolation
- Field-adjustable, patented gate edge seal system prevents leakage through top of valve
- Enclosed body design prevents any leakage to the outside environment
- Full round port and seat design offers low pressure drop across valve and longer service life in abrasive applications
- Standard inlet and outlet replaceable, rotatable Ni-resist wear rings extend service life
- Modular frame design allows for installation of any standard accessory without modification
- Fully piggable
- Available in raised or flat face

#### Technical Data

##### Size range:

DN 80 to 750 / NPS 3 to 30

##### Pressure ratings:

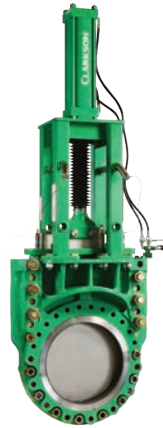
ASME Class 300

##### Temperature rating:

Up to 205°C / 400°F

#### Applications

Mining and mineral processing, oil sands processing, pulp and paper, coal preparation, power and steel processing



### Clarkson ZP300

#### Zero pocket knife gate valve.

An ASME Class 300 rated Zero Pocket bi-directional valve designed for the rigors of high pressure slurry and oil sands applications.

#### Features

- Full round port, adaptable to match specific pipe I.D.s offers lowest possible pressure drop across the valve
- Zero Pocket design reduces downstream turbulence offering longer service life of valve and pipework in abrasive applications
- Shut off conforms to ASME Class V
- Compliance to MSS-SP135 (Long Pattern) and ASME B16.34 Class 300
- Integral flow rings provide protection of castings and provide longer service life
- True bi-directional flow and shut-off, can be installed in either direction
- Suitable for dead end service up to full rated pressure of valve
- Designed as a repairable asset for total lower cost of ownership

#### Technical Data

##### Size range:

DN 50 to 1200 / NPS 2 to 48

##### Pressure ratings:

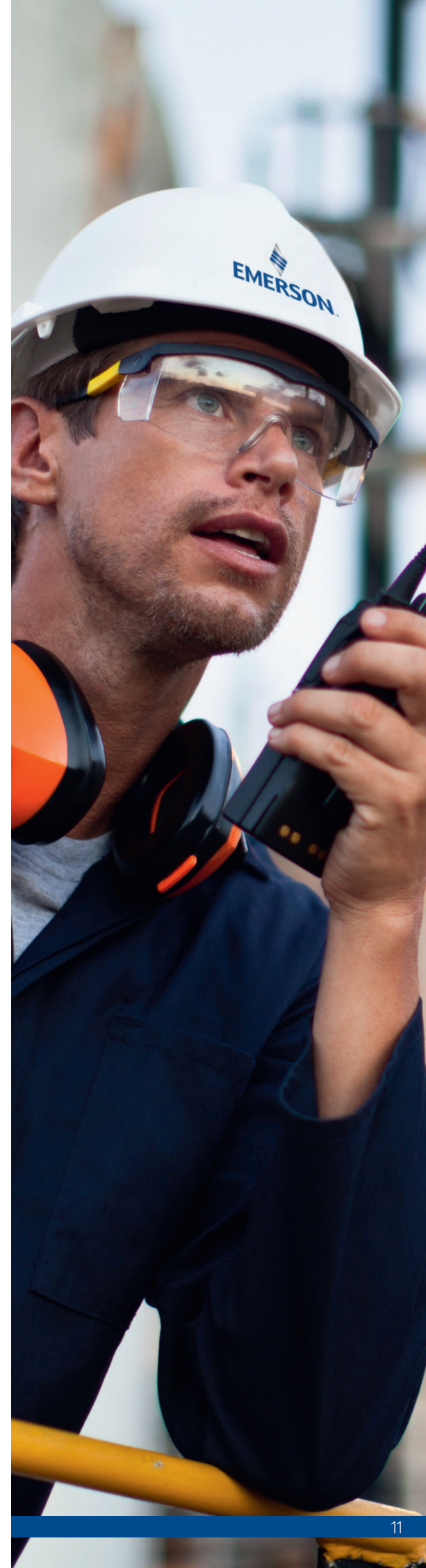
ASME Class 300

##### Temperature rating:

Up to 205°C / 400°F depending on elastomer

#### Applications

Mining, mineral processing and oil sands tailings



# Butterfly Valves

## Butterfly Valves

Emerson manufactures a complete range of butterfly valves from general purpose through to heavy duty and high performance models. This includes resilient seated valves for long service life and tight shut-off; high performance valves capable of temperatures of 538°C / 1000°F and pressures to PN 50 (Class 300); double flanged valves in sizes up to DN 3000 / NPS 120 and lined valves suitable for highly corrosive liquids, gases and slurries.

### Keystone™

Keystone butterfly valves set the standard, with a reliable and robust construction and have a higher cycle life with lower total cost of ownership than comparable products.

## Automated Valves from a single source

Emerson isolation valves are available as complete automated valve solutions supplied as a single product rather than packaged components.

See page 25 for more details.

## Resilient Seated



### Keystone Series GR Resilient seated butterfly valves.

A heavy duty resilient seated butterfly valve with a field replaceable seat.

#### Features

- Designed acc. to EN 593 / API 609.
- Field replaceable seat isolates the body and shaft from media.
- Rounded polished disc edge gives full concentric sealing, lower torques and longer seat life.
- Top and bottom shaft bearings for decreased torque and increased valve life.
- A molded-in O-ring on face of the seat eliminates flange gaskets.

#### Technical Data

##### Size range:

Lug and wafer: DN 50 to 900 / NPS 2 to 36

Double flanged: DN 600 to 1800 / NPS 24 to 72

##### Pressure rating:

16 bar to DN 300 / 230 psi to NPS 12

10 bar to DN 1800 / 150 psi to NPS 72

##### End-of-line:

10 bar to DN 300 / 150 psi to NPS 12

6 bar to DN 1800 / 90 psi to NPS 72

##### Temperature:

-40°C to 160°C / -40°F to 320°F

#### Applications

General industrial such as air, water and dry media

### Keystone Figure 221/222/320/322 Resilient seated butterfly valves.

An economical resilient seated butterfly valve with a moulded in seat.

#### Features

- Bubble tight shut-off at full rated pressure in both directions.
- Lugged version is suitable for full rated bi-directional end-of-line service.
- Moulded-in seat isolates the body and shaft from the media.
- Top and bottom bearings assure longer life and lower torques.
- A moulded-in O-ring on face of the seat eliminates flange gaskets.
- Figure 221/222 to ASME standards.
- Figure 320/322 to ISO standards.

#### Technical Data

##### Size range:

DN 50 to 300 / NPS 2 to 12

##### Pressure rating:

16 bar / 250 psi

Full 16 bar / 250 psi end-of-line shut-off capabilities with lugged valve

##### Temperature:

-30°C to 150°C / -20°F to 300°F

#### Applications

Building and construction, irrigation, utilities and water



**Keystone Figure 990/920**  
Resilient seated butterfly valves.

A split body butterfly valve utilizing a one-piece disc stem and field replaceable seat.

**Features**

- One-piece wafer-thin disc-stem provides high strength, positive disc control and the minimum obstruction to flow.
- Thin disc profile provides a larger open area, increased flow capacity and control capability.
- Field replaceable seat fully isolates the body and stem from flow.
- A moulded-in O-ring on face of the seat eliminates flange gaskets.
- Rubber and PFA molded discs available for light abrasion or chemical resistance.

**Technical Data**

**Size range:**

DN 25 to 500 / NPS 1 to 20

**Pressure rating:**

10 bar to DN 300 / 150 psi to NPS 12

5 bar to DN 500 / 75 psi to NPS 20

Coated Disc 7 bar DN 50 to 300 /

100 psi NPS 2 to 12

**Temperature rating:**

-40°C to 150°C / -40°F to 300°F

**Applications**

Chemical, pharmaceutical, pulp and paper, food and beverage and modulating services



**Keystone OptiSeal**  
Resilient seated butterfly valves.

A split body butterfly valve utilizing a one-piece disc stem and field replaceable seat.

**Features**

- Thin disc profile provides a larger open area, increased flow capacity and control capability.
- Rounded polished disc edge gives full concentric sealing, lower torques and longer seat life.
- Field replaceable seat fully isolates the body and stem from flow.
- Primary stem sealing exceeds the pressure rating of the valve and prevents leakage through shaft area.
- Top and bottom shaft bearings for minimum friction up to DN 300 (except cast iron).

**Technical Data**

**Size range:**

DN 40 to 300 / NPS 1 1/2 to 12

**Pressure rating:**

16 bar (CI body 10 bar)

**Temperature rating:**

-40°C to 160°C / -40°F to 320°F

**Applications**

Chemical, pharmaceutical, pulp and paper, food and beverage and modulating services



**Keystone CompoSeal**  
Resilient seated butterfly valves.

A highly engineered composite material valve providing excellent chemical resistance while being lightweight and simple to install.

**Features**

- Patented wafer style body and disc in high engineered composite results in excellent internal and external chemical resistance.
- Light weight construction results in lower cost and simplified installation.
- No extra pipe support needed when installed in plastic or GRP piping.
- Bubble tight shut-off in both directions, in accordance with EN 12266-1 leak rate A.
- Valve can be used in high line velocity applications up to 12 m/sec.
- High  $K_v$  ( $C_v$ ) value.
- No need for flange gaskets.
- Primary stem sealing exceeds the pressure rating of the valve and prevents leakage through the shaft area to atmosphere.

**Technical Data**

**Size range:**

DN 40 to 300 / NPS 1 1/2 to 12

**Pressure rating:**

10 bar | 16 bar / 145 psi | 232 psi

**Temperature rating:**

-40°C up to 150°C / -40°F up to 300°F

**Applications**

Building services, hot water applications, industrial waste water and industrial water treatment



**Keystone K-LOK® Series 36/37**  
High performance butterfly valves.

A high performance butterfly valve available with ASME Class 150 and 300 pressure ratings.

**Features**

- High cycle life and lower cost of ownership is achieved by high quality upper and lower shaft bearings.
- Packing integrity and a lower cost of maintenance is achieved by a unique packing gland bridge which eliminates the need for even packing adjustment.
- Extended neck allows for two inches of pipeline insulation.
- Polymer, elastomer and fire-safe seats provide bi-directional, drop-tight closure throughout all pressure ranges.
- Unique seat design does not rely on line pressure to energize the sealing and therefore will seal in low pressures as well as vacuum applications.
- Increased safety of field personnel is obtained by the use of a blow-out resistant shaft.

**Technical Data**

**Size range:**  
DN 50 to 900 / NPS 2 to 36

**Pressure rating:**  
ASME 150 and 300

**Temperature rating:**  
-40°C to 538°C / -40°F to 1000°F

**Applications**

Chemical and pharmaceutical, food and beverage, marine, metals and mining, oil and gas, power and water



**Keystone K-LOK® Figure 360/370**  
High performance butterfly valves.

A high performance butterfly valve available with ASME Class 150 and 300 pressure ratings.

**Features**

- Integrally cast mounting pad provides direct mounting of many actuators.
- Rocker-shaped gland bridge compensates for uneven adjustment of gland nuts.
- Extended neck allows for two inches of pipeline insulation.
- Flattened body bore at shaft journal ports positions shaft bearings near disc, providing maximum shaft support.
- Tangentially positioned disc taper pins place them in compression rather than shear, eliminating potential for failure.
- K-LOK polymer, elastomer, and fire-safe seats provide bi-directional, drop-tight closure in vacuum and throughout all pressure ranges, as well as at full rated differential pressure. A variety of materials allows optimum seat life in all applications.

**Technical Data**

**Size range:**  
DN 50 to 900 / NPS 2 to 36

**Pressure rating:**  
ASME 150 and 300

**Temperature rating:**  
-29°C to 538°C / -20°F to 1000°F

**Applications**

Chemical and pharmaceutical, food and beverage, marine, metals and mining, oil and gas, power and water



**Keystone K-LOK® Series 38**  
High performance butterfly valves.

Engineered to NAMUR Recommendation NE 167 for the European chemical industry.

**Features**

- Bi-directional, drop-tight shut-off in vacuum as well as at full rated differential pressure.
- Integrally cast-in disc position stop perfectly locates the disc in the seat, achieving maximum seat and seal life.
- Enhanced alignment of disc and shaft reduces seat wear and further extends cycle life.
- Certified for low emissions to ISO 15848-1 Tightness Class BH Endurance Class C03.
- Unique gland bridge design compensates for uneven adjustment of gland nuts, reducing packing leaks.
- Extended neck allows access to packing gland while accommodating up to 100 mm of pipeline insulation.

**Technical Data**

**Size range:**  
DN 50 to 400 / NPS 2 to 16

**Pressure rating:**  
PN 10, 16, 25

**Temperature rating:**  
-29°C to 200°C / -20°F to 392°F

**Applications**

Chemical and petrochemical processing, purified gas, steam, vacuum, water and utilities



**Keystone Figure 638**  
Slurry control valves.

An extreme heavy duty slurry control valve, with an extended body style and replaceable body sleeve.

#### Features

- Robust construction with optimized materials to extend valve life in corrosive, erosive service.
- Full reparability with replaceable internals for significantly extending valve life.
- Extended body for protection of down stream piping.
- Swing through disc for minimal leakage at elevated temperatures.
- Wing-style disc for optimum flow and wear resistance.
- Venturi liner for improved flow control and thicker liner for wear resistance.
- Improved mechanical seal to prevent the ingress of media to the bearing journals.
- Direct mounting of Keystone actuators and with in-line actuator removal.

#### Technical Data

##### Size range:

DN 40 to 600 / NPS 1 1/2 to 24

##### Pressure rating:

ASME B16.34  
Class 150, 300 and 600

##### Temperature rating:

Up to 230°C

#### Applications

Bauxite slurries, coal washeries, tailing dispersal, cement, caustic, sugar industry and tailings, mud and sand dispersal, and mineral sands



**Keystone Figure 634/635/637**  
Slurry control valves.

Short body, wafer style valves for the control of liquids, gases, and light/medium slurries where scaling is present.

#### Features

- Robust construction with optimized materials to extend valve life in scaling service.
- Bi-directional slurry control.
- Swing through disc for minimum leakage.
- Adjustable PTFE gland packing.
- Direct mounting of Keystone actuators with in-line actuator removal.
- Full reparability with replaceable internals that can significantly extend valve life.
- Manufactured under quality system ISO 9001:2015, Certificate No. 10109459.

#### Technical Data

##### Size range:

F634: DN 40 to 600 / NPS 1 1/2 to 24

F635: DN 50 to 500 / NPS 2 to 20

F637: DN 50 to 600 / NPS 2 to 24

##### Pressure rating:

F634/F635/F637: ASME B16.34 Class 150

##### Temperature rating:

F634/F635/F637: Up to 230°C

#### Applications

Ideally suited for use on light/medium slurries including liquor service in the alumina industry or other scaling applications.



**Keystone Figure 2000**  
Slurry control valves.

Wafer style valve with steel reinforced resilient seat for control of light/medium slurries.

#### Features

- Wafer style body.
- Bi-directional tight shut off up to 1400 kPa.
- Steel reinforced seat.
- Extensive size range available.
- High wear resistance materials.
- Replaceable components.
- Maintenance friendly.
- Direct mounting to Keystone actuators eliminates the need for mounting brackets.
- Top bushing absorbs actuator side thrust loads.
- Body locating holes provide easy installation and centering between flanges.

#### Technical Data

##### Size range:

DN 50 to 500 / NPS 2 to 20

##### Pressure rating:

Full vacuum to 1400 kPa (Tight shut-off)

##### Temperature rating:

- 20°C to 120°C (SBR) / 150°C (EPDM)

#### Applications

Ideal for the control of light to medium density mineral processing slurries where tight shut-off is required.

# Process Ball Valves

## Process Ball Valves

With an outstanding portfolio of proven products, Emerson manufactures and markets an extensive range of full and reduced bore process ball valves serving a wide spectrum of applications in the downstream oil and gas, petrochemical, chemical, pharmaceutical and allied process industries. Emerson's ball valve portfolio includes a diverse range of standard and customized designs that can be configured to suit most process applications or project packages.

### KTM™

KTM soft and metal seated designs are capable of a million cycles a year, making them the reliable, efficient and long lasting solution in arduous conditions.

### Automated Valves from a single source

Emerson isolation valves are available as complete automated valve solutions supplied as a single product rather than packaged components.

See page 25 for more details.

## Two-Piece



### KTM Series EB1 Floating ball valves.

High performance two-piece ball valve where fire-safe and fugitive emission compliance is mandatory.

#### Features

- Soft E-seat copolymer, Gratitude®, Metaltite® and Cryogenic designs.
- Compliance to ASME B16.34, API 608 and ISO 17292.
- Full and reduced bore options.
- Fire-tested and certified to API 607 and ISO 10497 (soft and metal seated).
- Fugitive emission compliant stem seal design to ISO 15848-1 Class BH C03 and API 641.
- Cryogenic design to -196°C / -321°F.
- Anti-static design acc to ISO 17292.
- Tightness to API 598 soft seat, ISO 5208 Rate A for soft seat and Rate B for metal seat, EN 12266-1 Rate A for soft seat and Rate B for metal seat.

#### Technical Data

##### Size range:

Full bore: DN 15 to 200 / NPS 1/2 to 8  
Reduced bore: DN 150 to 250 / NPS 6 to 10

##### Pressure rating:

ASME Class 150 and 300

##### Temperature range:

-196°C to 500°C / -321°F to 932°F  
(seat dependent)

#### Applications

Petrochemical, chemical



### KTM Novatite Extreme™ Metal-seated ball valves.

The first ever metal-seated ball valves to undergo Design Validation Testing for the entire -50°C to 500°C range.

#### Features

- API 608 and API 598 compliant.
- Extended bonnet design for API 607 (8th edition) / ISO 10497-2022 compliant fire-safe valve.
- Fugitive emissions performance compliant with API 641 / ISO 15858-1.
- Design Validation Testing, which involves mechanical and thermal cycling over entire temperature range, conducted from -50°C to 500°C using a single configuration.
- Surface hardening of ball and seat with Chrome Carbide via HVOF.

#### Technical Data

##### Size range:

Full bore: DN 15 to 200 / NPS 1/2 to 8  
Reduced bore: DN 80 to 250 / NPS 3 to 10

##### Pressure rating:

ASME Class 150 and 300

##### Temperature range:

-50°C to 500°C / -58°F to 932°F

#### Applications

Sequencing; high temperature, high frequency, high operating speed, thermal cycling; mechanical cycling; clean fluids, dirty fluids, high viscosity, scaling fluids, corrosive, erosive waste treatment, sludge, saturated steam, super-heated steam.



### KTM Novatite Extreme™ Cryogenic Metal-seated ball valves.

Performance exceeding the requirements of international cryogenic service standards with low wear and maintenance.

#### Features

- Meets requirements of BS 6364 and ISO 28921-2.
- Short/long extended bonnets meet ISO 28921-1 mandated temperature limits.
- Fugitive emissions certified as per ISO 15848-1 Class BH CO3.
- Unidirectional sealing capability offered as standard; bi-directional sealing capability available on request.
- Ball and seat hardened with Chrome Carbide / Tungsten Carbide.

#### Technical Data

##### Size range:

Full bore: DN 15 to 200 / NPS 1/2 to 8

Reduced bore: DN 80 to 250 / NPS 3 to 10

##### Pressure rating:

ASME Class 150 and 300

##### Temperature range:

-196°C to 150°C / -321°F to 300°F

#### Applications

Cryogenic service where low maintenance and flanged ends are desired in Oil & Gas, Chemical & Petrochemical, Air Separation, Medical/Laboratory, Aerospace industries while handling cryogenic Propane, Ethane, Ethylene, Methane, LNG, Oxygen, Nitrogen



### KTM Series EB7 Floating ball valves.

KTM Fire-safe and Anti-Static ASME 150/300 one-piece, end entry, flanged ball valve for oil, gas, petrochemical and chemical industries.

#### Features

- Designed to ASME B16.34, API 608 and ISO 17292.
- Optional testing to API 6D / ISO 14313.
- Single piece end entry body design complies with ASME B16.34.
- ISO 5211 top mounting flange.
- Face-to-Face to API 6D / ASME B16.10 / BS 2080 / BS EN 558.2.
- One-piece body offers total pipe integrity minimizing the number of potential leak paths.
- Carbon steel or stainless steel body.
- Precision 316 stainless steel ball as standard.
- Blowout proof shouldered stem.
- Anti-static device.

#### Technical Data

##### Size range:

DN 15 to 200 / NPS 1/2 to 8

##### Pressure rating:

ASME Class 150 and 300

##### Temperature Rating:

-29°C to 232°C / -20°F to 450°F

#### Applications

Chemical, petrochemical, oil and gas



### KTM Series RA Floating ball valves.

Allows in-line welding without disassembly and one-bolt-removal for ease of maintenance.

#### Features

- Soft, metal and cryogenic seating options.
- Bubble-tight sealing to API 598 and EN 12266-1 Rate A.
- Integrated ISO top flange for easy automation.
- Cast body materials.
- Carbon steel and stainless steel body, stainless steel trim.
- Reduced and full bore options.
- Swing-out center for easy seat and gasket replacements.
- Butt weld, socket weld, threaded ends and flanged versions (EU only).

#### Technical Data

##### Size range:

DN 8 to 250 / NPS 1/4 to 10

##### Pressure rating:

Up to PN 100

##### Temperature range:

-196°C to 400°C / -321°F to 752°F

#### Applications

Chemical and pharmaceutical, food and beverage, marine, metals and mining, oil and gas, power and water



### K-Ball Series 110 / 120

Floating ball valves.

Economical, investment cast, stainless steel floating ball valves with threaded ends.

#### Features

- Investment cast.
- Stainless steel construction.
- Threaded ends to BSPP, BSPT, NPT.
- Blow-out proof shaft.
- Locking device.
- Series 110
  - One-piece
  - Reduced bore
- Series 120
  - Two-piece
  - Full bore
  - DIN 3202 M3 face-to-face
  - Adjustable shaft packing

#### Technical Data

##### Size range:

DN 8 to 50 / NPS 1/4 to 2

##### Pressure rating:

69 bar / 1000 psi

##### Temperature range:

Consult data sheet P/T curves

#### Applications

General industrial applications including water, oil, gas and chemical processes



### K-Ball Series 155 / 172 / 182

Floating ball valves.

Three-piece, full and reduced bore floating ball valves.

#### Features

- Carbon steel or stainless steel bodies.
- Blow-out proof stem.
- Locking device.
- Tightness to EN 12266-1 Rate A and API 598.
- End connections:
  - Threaded ends to BSPP, BSPT, NPT.
  - Butt weld.
  - Socket weld.
  - Tri-clamp (F172 only).
- Seat material options available.
- Fire-tested valves available.
- Body construction - investment casting.

#### Technical Data

##### Size range:

DN 8 to 100 / NPS 1/4 to 4

##### Pressure rating:

F155/F172: Up to 69 bar / 1000 psi

F182: ASME Class 300 to 600

##### Temperature range:

Consult data sheet P/T curves

#### Applications

General industrial applications including water, oil, gas and chemical processes



### K-Ball Series 194

Floating ball valves.

Full bore, two-piece, split-body floating ball valves with flanged ends.

#### Features

- Carbon steel or stainless-steel bodies.
- Fire safe configuration tested to API 607 8th Edition.
- Blow-out proof shaft.
- ISO 5211 top mounting plate.
- Anti-static design according to EN 1983 / ISO 17292.
- Tightness to API 598 / ISO 5208 Rate A / EN 12266-1 Rate A.
- Locking device (without lock).
- Available in ASME and AS 2129 Table E flange drillings.

#### Technical Data

##### Size range:

DN 15 to 200 / NPS 1/2 to 8

##### Pressure rating:

ASME Class 150 / 300

PN 10 / 16 / 25 / 40

##### Temperature:

-29°C to 200°C / -20°F to 392°F

#### Applications

General industrial applications including water, oil, gas and chemical processes



### KTM Series E01

Trunnion mounted ball valves.

Two-piece, bi-directional, cast body trunnion ball valves.

#### Features

- Energized soft and metal seated.
- Metaltite® metal seated option to 500°C / 932°F.
- Fully adjustable gland packing per API 608.
- Locking device.
- Cavity relief.
- Positive shut-off.
- Blow-out proof stem.
- Fugitive emission certified to ISO 15848-1, Class BH CO3 and API 641.
- Fire-safe construction.
- ISO integral mounting flange.
- Sulfide stress cracking resistant (compliant to NACE MR-01-75-2002).
- Suitable for cryogenic, vacuum and lethal/toxic services.

#### Technical Data

##### Size range:

DN 50 to 600 / NPS 2 to 24

##### Pressure rating:

ASME Class 150 to 1500

##### Temperature range:

-196°C to 500°C / -321°F to 932°F

#### Applications

Oil and gas, chemical, petrochemical, refineries, pulp and paper and power



### KTM Series PDS

Powder discharge system ball valves.

Suitable for high speed and high frequency powder handling applications.

#### Features

- Superior seating to ANSI/FCI 70-2 Class V.
- Spring loaded seat assures tight sealing even at low pressure.
- Scraper design minimizes residual powder between ball and seat to maintain seal and smooth open-close action.
- Powder proof devices around seat areas shield against contaminants.
- Non-lubricated dry PEEK bearing with low friction provides high abrasion resistance.

#### Technical Data

##### Size range:

DN 15 to 350 / NPS 1/2 to 14

##### Pressure rating:

ASME Class 150 to 600

##### Temperature:

-46°C to 180°C / -51°F to 356°F

#### Applications

High cycle powder applications such as polyethylene and polypropylene production



# Lined Products

## Lined Valves

Emerson supplies a range of butterfly valves and sampling products, the wetted parts of which are lined for resistance to corrosion in a multitude of applications in industries such as chemical, petrochemical, pharmaceutical, pulp and paper, semiconductor (UPW), foundries and mining.

## Neotecha™

Neotecha PTFE, TFM and PFA lined valves are designed for highly corrosive media. The molding technique of applying PFA over a metal core achieving mechanical strength from the core and chemical resistance from the encapsulation has given Neotecha valves a worldwide reputation for reliability in the most severe corrosive applications.

## Automated Valves from a single source

Emerson isolation valves are available as complete automated valve solutions supplied as a single product rather than packaged components.

See page 25 for more details.

## Butterfly



## Neotecha NeoSeal Lined butterfly valve.

Lined butterfly valve for highly corrosive liquids, gases and slurry.

### Features

- TA-Luft approved valve with continuous loaded mechanical stem seals.
- Ultra pure water approved with assembly in clean room (level 8).
- Machined to close tolerances for low torque and reduced stress/deformation during operation.
- Excellent sealing properties using elastomer pads behind the liner.
- Improved protection using thick lining on disc (3 mm).
- Serrated body flanges reducing the cold flow of the seat.

### Technical Data

#### Sizes:

DN 40 to 900 / NPS 1 1/2 to 36

#### Pressure class:

Full vacuum to PN 10

#### Temperature range:

-40°C to 200°C / -40°F to 392°F

### Applications

Chemical and pharmaceutical, semiconductor and food and beverage

## Sampling



## Neotecha In-line Sampling Systems

Compact, complete sampling systems designed to handle highly corrosive liquids in a closed environment, without process interruption.

### Features

- Engineered for sampling accuracy.
- Precision PTFE, PFA or glass linings available of all wetted parts to ensure maximum life.
- Various sample collection methods to suit your specific application.
- Security features available to prevent unauthorized sampling.
- Simple assembly/disassembly to allow easy access cleaning for more reliable sampling.
- Various international approvals in place.

### Technical Data

#### Sizes:

DN 25 to 100 / NPS 1 to 4

#### Pressure:

Vacuum to 10/16 bar / 145/232 psi

#### Temperature range:

Up to 200°C / 392°F

### Applications

Chemical and pharmaceutical, pulp and paper, food and beverage

# Check Valves

## For Process and Oil & Gas Applications

Emerson supplies engineered check valve solutions for reliable reverse prevention in the upstream oil and gas, power and petrochemical markets.

### Keystone™

Keystone check valves are purpose designed to provide reliable and fast acting prevention of reverse flow to protect your critical assets such as pumps.

## Automated Valves from a single source

Emerson isolation valves are available as complete automated valve solutions supplied as a single product rather than packaged components.

See page 25 for more details.

## Swing Check



### Keystone Figure 85 Swing type wafer check valves.

The Keystone Figure 85 is a wafer style swing check valve with short face-to-face dimensions and is suitable for use in a range of gas and liquid applications.

#### Features

- The compact wafer thin body provides extreme low weight.
- Minimum width of body allows installation between various flange standards.
- Seating O-ring placed in dove-tail groove of disc is easily replaceable.
- Low pressure shut-off.
- This check valve offers positive shut-off even at very small differential pressure, due to rotational axis location. Disc weight acts to fully close valve.

#### Technical Data

##### Size range:

DN 40 to 300 / NPS 1 1/2 to 12

##### Pressure rating:

16 bar / 232 psi

##### Temperature rating:

-60°C to 204°C / -76°F to 399°F

#### Applications

Oil, gas and water, chemical handling, fire protection systems, municipal water systems, natural gas systems, and HVAC

## Spring Loaded



### Keystone Figure 86 Spring loaded wafer check valves.

The Keystone Figure 86 is a high capacity, spring loaded wafer style swing check valve designed to prevent back flow in a variety of applications including pump and multi-pump systems.

#### Features

- Lightweight, wafer type check valve with face-to-face dimensions according ISO 5752, table 5 long.
- High flow capacity featuring a special shaped disc with a large opening angle resulting in high  $K_v$  values.
- Spring loaded disc for positive shut-off.
- Choice of cast iron or stainless steel body types.
- Field replaceable O-ring seat.
- Internal travel stop prevents the disc from slamming against the pipe.
- Excellent low pressure shut-off; The standard low pressure shut-off is less than 0.1 bar / 10 kPa.

#### Technical Data

##### Size range:

DN 40 to 300 / NPS 1 1/2 to 12

##### Pressure rating:

16 bar / 232 psi

##### Temperature rating:

-40°C to 190°C / -40°F to 374°F

#### Applications

Back flow prevention in pump or multi-pump systems, high slam risk systems up to flow deceleration of 25 m/s<sup>2</sup>, combined low line velocity and low pressure tightness, vacuum breaker for storage tank protection, high capacity/low pressure drop to ensure economical use, not suitable for pulsating applications

# Angle Slurry & Isolation Valves

## Angle Slurry & Isolation Valves

Angle slurry / isolation valves are designed and engineered specifically for the mining and process industry or other applications where built up scale or settled slurries need to be cleared to allow flow. These include: Alumina - bauxite slurries, digestion slurries, flash vessel vapor return, green and spent liquors, washer underflow/overflow, tertiary and secondary thickeners, press filter isolation, mudline disposal; precipitation; filtrate underflow; hydrate slurry storage.

### Lunkenheimer™

Lunkenheimer high quality isolation valves are used in severe applications such as alumina, nickel and gold mining, they are relied on for critical isolation preventing expensive downtime.

## Automated Valves from a single source

Emerson isolation valves are available as complete automated valve solutions supplied as a single product rather than packaged components.

See page 25 for more details.

## Angle Slurry



### Lunkenheimer Figure 603-607 Isolation and check valves.

Specially designed for severe service in alumina and mining applications where scale and erosion are present.

#### Features

- Valves can be reground in-line.
- Designed to ASME B16.34.
- Heavy duty wall and flange thickness well in excess of ASME B16.34 and ASME B16.5.
- Pads for fitting drain ports.
- Tested to API 598.
- Large stem diameters for strength and stiffness.
- Stellite® 6 hardfacing as standard on disc and seat surfaces.
- Hard facing available on stem.
- Documentation to EN 10424 1999 Type 3.1B (DIN 50409).

#### Technical Data

##### Size range:

DN 50 to 600 / NPS 2 to 24

##### Pressure rating:

ASME Class 150 to 600

##### Temperature rating:

up to 345°C / 650°F

#### Applications

Alumina refining, mining

## Isolation



### Lunkenheimer Figure K4050/4250 Isolation valves.

Specially designed for severe service in alumina and mining applications where scale and erosion are present.

#### Features

- Venturi style inlet throat design increases fluid velocity across seating area to reduce scale formation.
- Split body design allows for easy maintenance.
- Bolted bonnet.
- Body, connector and yoke in CS.
- Design offers low torque and easy manual operation.
- Replaceable surface-hardened Stellite® facing disc and seats.
- Design to ASME B16.34; tested as per API 598.

#### Technical Data

##### Size range:

DN 50 to 500 / NPS 2 to 20

##### Pressure rating:

ASME Class 150

##### Temperature range:

-29°C to 425°C / -20°F to 797°F

#### Applications

Alumina refining, mining



# Global strength **Local expertise**

## **Global Leader**

Emerson's world-class valve manufacturing facilities and engineering centers of excellence drive industry-leading innovation and the highest levels of quality. These facilities deliver superior product performance, reliability and safety, backed by decades of field-proven experience and rigorous testing standards, to meet the most challenging process isolation and control demands.

## **In-Region Availability**

Regional fulfillment centers enable local product availability, customization to market specifications, and complete valve automation solution, all with rapid lead times. This localized approach allows Emerson to meet your specific needs efficiently, ensuring you receive the right solutions, precisely when you need them.

## **Your Local Partner**

Emerson's local sales and service channels offer personalized support, ensuring we're always nearby to assist you. Trust in our comprehensive global network that harmonizes vast resources with intimate local knowledge, providing you with responsive, effective solutions. Choose Emerson for unmatched expertise, dependable service, and a commitment to driving your success.





## Complete automated valve solutions from a single source

When it comes to providing complete automated valve solutions, Emerson is the only partner you need to know.

Forget juggling multiple vendors or the complexities of valve component integration. Emerson can supply the fully engineered, integrated and calibrated automated valves you need, from a single source.

### Consider the advantages of a single supplier:

- Emerson can manage, administer and produce your automated valves as a 'product' and not as packaged components.
- Emerson's automated valves are designed to function as one optimized solution, eliminating integration complexity.
- All valves are fully tested to a global set of standards.
- Emerson manufactures its own components. This makes us totally accountable for the solutions we supply, irrespective of the parts integrated into each solution.
- A single supplier minimizes commissioning and startup risk, ensuring project certainty.
- Modular automated valve solutions allow streamlined maintenance and inventory planning.





## Lifecycle Services

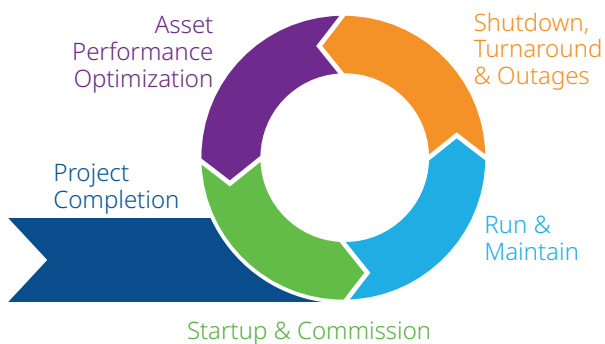
Emerson's comprehensive service capabilities provide expert support to plan and execute plant maintenance, as well as optimize valve reliability at all stages of the plant lifecycle. Emerson's OEM engineering expertise, scalable and proven solutions, global reach, digital efficiency tools, and breadth of valve, actuator, regulator, and instrumentation product offering are unmatched -- which allows you to achieve your key performance indicators and work towards Top Quartile performance.

When we look across the full lifecycle of a plant, we can see critical areas where there are improvement opportunities related to valve assemblies. Valves matter because they have a significant impact on both unplanned shutdowns and slowdowns -- and they're one of the assets that require the most operational and maintenance spend. As your strategic partner, we can help you uncover areas of focus that impact your ability to achieve operational excellence and help you find the right solution.

### Capabilities

With service centers strategically located, available 24/7/365, and a fleet of fully stocked service vehicles, Emerson can support you anywhere you need us - from the field to our own state-of-the-art production facilities. Our pickup and delivery services assist you with your service and repair needs with minimal downtime.

## Strategic Support Throughout the Lifecycle of Your Plant



**Only Emerson has what it takes to provide you complete support throughout each stage of your plant cycle.**

- Start up and commissioning support after a new build or an outage
- Day-to-day strategies as you run and maintain your process
- Shutdown, turnaround or outage (STO) planning and execution
- Proven asset performance optimization tools and processes



## QuickShip Everyday

With the rapid changes in today's business environment, you can't afford to slow down - especially when it comes to product repair and replacement.

### What if you could:

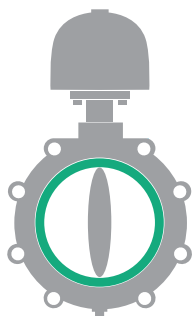
- Get the items you need with shorter lead times?
- Reduce the impact of unexpected, late-stage changes in your project?
- Backfill spares and build inventory faster?

The **QuickShip Everyday** tier of Emerson's QuickShip program delivers all this and for no additional cost on everyday items you need.

QuickShip Everyday provides market-leading production and shipment services designed to reduce lead time on your commonly-ordered products and parts, ensuring fast, convenient and reliable delivery. You can select from a list of available items, and place orders that will ship from your nearest Emerson regional fulfillment center within five business days from receipt of an order.

Put Emerson's wealth of resources and expertise to work for you to resolve all your part and product shipping needs, no matter the circumstances.

Contact your local Emerson sales representative for more information and the range of available products.



**THOUSANDS**  
of possible  
isolation valve  
configurations...

Available to  
ship in **FIVE**  
**days or**  
**less!**



**QuickShip** is a world-class fulfillment program offered by Emerson with tiered service levels that allow for fast shipment of parts and products to maximize speed and responsiveness, while optimizing cost.

It leverages our global infrastructure, local presence and commitment to service to help you avoid downtime, stay on schedule, respond to the unexpected, and control costs in today's challenging environments.

For faster shipment options, ask your local Emerson representative about the availability of QuickShip Expedite and QuickShip Emergency premium shipment services.

Visit [Emerson.com/QuickShip](https://www.emerson.com/QuickShip) to learn more.

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