Trinity Valves

Trinity Valves & Controls

INNOVATIVE VALVES FOR RELIABLE PERFORMANCE

Engineered for Excellence.
Built for Durability,
Trusted for Every Application.

- Superior Quality Materials
- Precision Engineering & Advanced Technology
- Durable, Reliable & Long Lasting
- High Performance in Every Condition

BUTTERFLY VALVES

BALL VALVES

PNEUMATIC ACTUATORS

PNEUMATIC CYLINDERS

KNIFE GATE VALVES

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Trinity Valves & Controls

AN ISO 9001:2015 CERTIFIED COMPANY

At Trinity Valves, we engineer precision, build reliability, and deliver performance you can trust.

15+ MORE THAN YEARS OF EXPERIENCE

If your application requires special considerations, Trinity's engineered product and design capabilities, combined with diversity in manufacturing, allow for practical, value-oriented customized solutions.

OUR PRODUCTS

We manufacture a comprehensive range of industrial valves designed to meet the diverse needs of our global clients.


Gate Valves


Globe Valves


Ball Valves


Butterfly Valves


Check Valves


Plug Valves


Strainers

Materials

- Alloy Steel
- Carbon Steel
- Stainless Steel

INDUSTRY EXPERTISE. ADVANCED TECHNOLOGY.

With years of industry expertise, Trinity Valves combines deep technical knowledge with advanced technology to deliver world-class valve solutions.

Our team of skilled engineers and technicians. brings a wealth of experience, enabling us to provide products that are innovative and application-specific.

We leverage the latest advancements in manufacturing technology, from precision machining to automated testing.

Every valve we produce is built to perform reliably under the most challenging conditions.

We are committed to maintaining our reputation as a trusted partner in delivering high-quality, technologically advanced solutions to our clients.

VISION & QUALITY

VISION

At Trinity Valves our vision is to become a global leader in valve solutions, delivering products that empower industries with efficiency, safety, and sustainability.

We aim to continuously innovate and set the benchmark in valve manufacturing, ensuring every solution we deliver exceeds client expectations and meets the highest standards of performance, durability, and reliability.

By fostering a culture of excellence and forward-thinking engineering, we aspire to transform the industrial landscape with solutions that contribute to a more resilient and energy-efficient world.

QUALITY

Quality is the cornerstone of our operations at Trinity Valves. Every product we manufacture undergoes rigorous testing and quality assurance processes, ensuring that our valves meet the most demanding industry standards.

Our dedication to quality extends to every stage, from sourcing premium-grade materials, such as Alloy Steel, Carbon Steel, and Stainless Steel, to implementing state-of-the-art production techniques and thorough inspection protocols.

We are committed to delivering reliable, precision-engineered valves that provide long-lasting performance, safety, and exceptional value to our clients.

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GATE VALVE

Trinity Gate Valves are engineered for reliable shut-off and long-lasting performance in the most demanding industrial applications. Manufactured with precision and built to international standards, our gate valves ensure zero leakage, high durability and optimal flow control.

TECHNICAL SPECIFICATIONS

- **Valve sizes: 2" to 36"**
  Class: 150-2500
- **Material of construction**
  Ductile Iron, WCB, CF8, CF8M, WC6, WC9, LCB, LCC
- **Standard gate valves**
  Solid wedge, Flexible wedge, Split wedge
- **Parallel slide gate valves and Knife edge gate valve**
- **Through conduit gate valves**
- **Single and double expanding gate valves**
- **Bolted bonnet, pressure seal and cryogenic designs are available**
- **Designed to meet requirements of**
  Design as per API600, API6D, API 602, 6A / ASME B16.34
- **Face to face**
  ASME B16.10 / ISO 5752 / En558
- **Flanged end connection std**
  ASME B16.5/16.47 A & B, MSS SP-44 & EN1092-1 Used For European Buttweld End Connection As Per ASME B 16.25
- **Pressure Temperature rating**
  ASME B16.34
- **Testing standard**
  API-598, ISO 5208

GATE VALVE TYPES

SOLID WEDGE GATE VALVE

FLEXIBLE WEDGE GATE VALVE

THROUGH CONDUIT GATE VALVE

APPLICATIONS

- Water & Waste Water Treatment
- Chemical & Petrochemical Industry
- Oil & Gas Industry
- Pulp & Paper Industry
- A Power Plants
- Marine & Ship Building

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CONCENTRIC BUTTERFLY VALVE

Reliable Performance | Tight Shut-off | Long Service Life

OVERVIEW

Trinity Concentric Butterfly Valves are designed for efficient flow control and tight shut-off in a wide range of industrial applications. With a robust construction and precision engineering, these valves ensure durable performance, low maintenance and excellent corrosion resistance.

TECHNICAL SPECIFICATIONS

Sizes
2" to 48" DN 50 to 1200

Pressure rating
PN3.5, PN6, PN10, PN12, AND PN 16.

Material
Body-Cast iron, ductile iron, WCB, CF8, CF8M, DUPLEX, SUPER DUPLEX.

Seat Material
EPDM, NBR, VITON, SILICON.

Rubber Seat Temperature Range
NBR: -20°C~+80°C
EPDM: -29°C~+135°C
VITON: -20°C~+200°C

Design Standard
API 609, BS EN 593, EN1092-1 & 2, ASME B16.5 CLASS 150.

Ends
WAFER, LUG AND FLANGED.

Flange Drilling
ASME B16.5 Cl150
PN10, 16 | JIS 10K

Top Actuator Mounting
ISO 5211

FEATURES & BENEFITS

Tight Shut-off
Ensures zero leakage and reliable performance.

Robust Construction
Strong body and seat design for long service life

Corrosion Resistance
Available in a wide range of materials for various media.

Versatile Application
Suitable for water, oil, gas, chemical and industrial applications.

Easy Operation
Smooth operation with manual, pneumatic or electric actuators.

Water & Waste Water Treatment | Chemical & Petrochemical | Oil & Gas Industry | Pulp & Paper Industry | Power Plants | Marine & Ship Building

Suitable for

Water, Steam, Air, Oil, Gas, Chemicals, Vacuum and other non-abrasive services.

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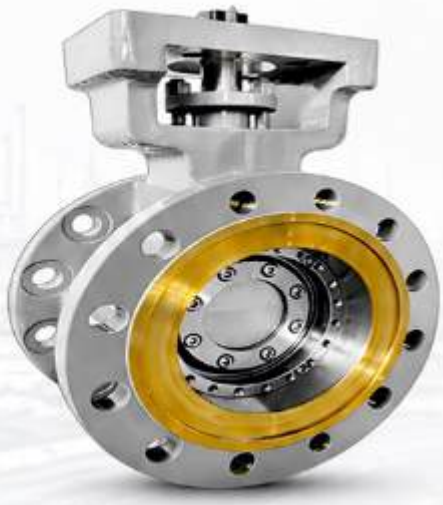
DOUBLE & TRIPLE OFFSET BUTTERFLY VALVE

Precision Engineered. Reliable Performance.

OVERVIEW

Trinity Double & Triple Offset Butterfly Valves are engineered for high performance in critical applications requiring zero. leakage, tight shut-off and extended service life. Designed with advanced technology and precision manufacturing, these valves deliver superior control and reliability even in the most demanding environments.



TECHNICAL SPECIFICATIONS

Sizes	2" to 48" DN 50 to 1200
Pressure rating	Class 150, 300, 600
Class	Class 150 & 300-2" to 48" Class 600-2" to 24"
Material	Body WCB, CF8, CF8M, DUPLEX, SUPER DUPLEX.
Soft Seat Material	PTFE, CFT, GFT
Metal Seat Material	SS, Inconel, PTFE + SS 316, RPTFE Ss316 Graphite Laminated
Design Std	API 609, BS EN 593, EN12516-1 & 2, ASME B16.5 CLASS 150
Face to Face	ASME B16.10/API 609/ISO 5752
Testing	API 598 / FCI - 70-2
Ends	WAFER, LUG AND FLANGED.
Flange Drilling	B 16.47, PN10, 16 JIS 10K, EN1092-1
Top actuator Mounting	ISO 5211

ADVANTAGES

Zero Leakage
Triple offset design ensures bubble-tight shut-off.

High Performance
Excellent for high temperature, high pressure & corrosive media.

Long Service Life
Precision components & premium materials for extended durability.

Low Maintenance
Robust design reduces wear and maintenance dowritime.

Versatile Application
Suitable for on/off and throttling services.

APPLICATIONS

- Water & Waste Water Treatment
- Chemical & Petrochemical
- Oil & Gas Industry
- Pulp & Paper Industry
- Power Plants
- Marine & Ship Building

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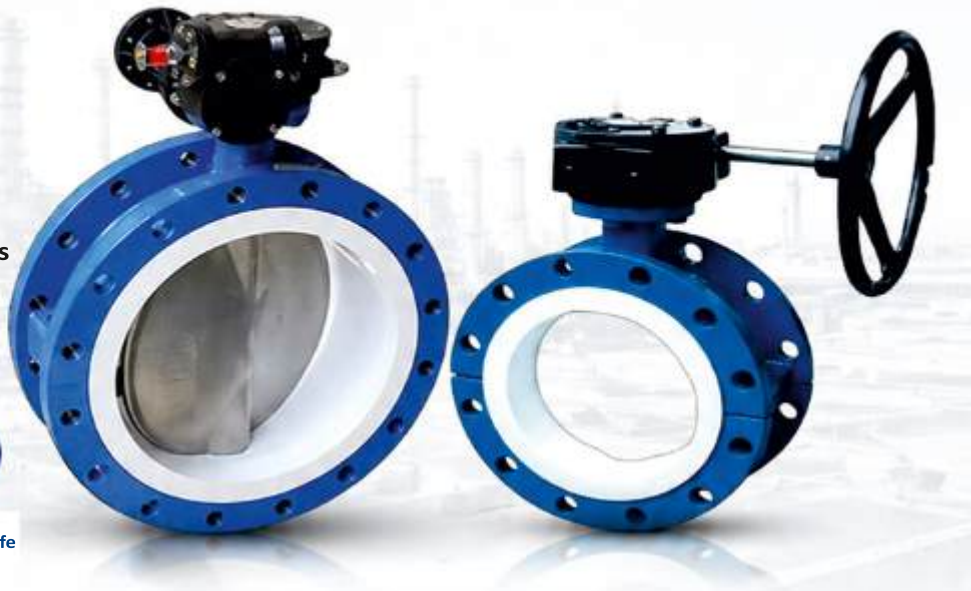
PFA LINED BUTTERFLY VALVE

Resistant | Zero Leakage | Superior Performance

OVERVIEW

PFA Lined Butterfly Valves are engineered for handling highly corrosive chemicals and ultra-pure applications. The PFA lining provides exceptional chemical resistance, zero leakage and long service life. These valves are ideal for applications in industries where safety, reliability and purity are critical.



- Corrosion Resistant
- Zero Leakage
- Low Maintenance
- Long Service Life

TECHNICAL SPECIFICATIONS

Size Range	NPS 2" to 24" DN 50 to 600
Temperature Range	-20°F to 320°F | -29°C to 160°C
Pressure Rating	NPS 2 to 6: Up to 232 psi DN 50 to 150: Up to 16 bar NPS 8 to 24: Up to 150 psi DN 200 to 600: Up to 10 bar
Body Style	2-piece / Wafer, Lug / Flanged
Valve Design	MSS SP-155 MSS SP-67
Seat Tightness	API 598 | ISO 5208
Face-to-Face	API 609 | ISO 5752 EN 558 Series 20
Flange Drilling	PN10, 16 JIS 10K
Top Flange	ISO 5211

MATERIAL OF CONSTRUCTION

- **Body**
  WCB, CF8, CF8M, DUPLEX, SUPER DUPLEX
- **Lining**
  PFA (Perfluoroalkoxy)
- **Disc**
  CF8/CF8M/CF3M/DUPLEX/SUPER DUPLEX with PFA Lining
- **Stem**
  SS 316/SS 316L/DUPLEX
- **Seat Material**
  EPDM, NBR, VITON, SILICON (PFA Encapsulated)
- **Bush**
  PTFE/SS 316

APPLICATIONS

- Chemical Processing
- Pharmaceutical & Biotech
- Petrochemical Industry
- Water & Waste Water Treatment
- Acid & Alkali Handling
- Semiconductor Industry
- Pulp & Paper Industry

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BALL VALVE FLOATING

Reliable Performance | Zero Leakage | Fire Safe

OVERVIEW

Floating ball valves are designed for accurate flow control and tight shut-off in various industrial applications.
These valves ensure durability, safety and long service life even in demanding environments.

- **TIGHT SHUT-OFF** — Ensures bubble-tight sealing for leak-free performance.
- **FIRE SAFE DESIGN** — Compliant with API 607/API 6FA standards
- **ANTI-STATIC DEVICE** — Prevents static build-up for safe operation.
- **ACTUATOR READY** — Mounting as per ISO 5211 for easy automation.
- **BLOW-OUT PROOF STEM** — Prevents stem ejection for safe and reliable eperation.

TECHNICAL SPECIFICATIONS

Design Type	1Pc/2Pc/3Pc design floating, full port
Size Range	½" to 2"
End Connection	Screwed End and socked weld
Pressure Rating	Class 150, 300, 600 & 800 /1500/2500
Temperature	-20°C to 180°C (-20°F to 356°F)
Seat	PTFE, RPTFE, CFT, GFT, GRAFOIL, PEEK, DEVLON
Anti-Static Device	Yes
Fire Safe	Compliant with API 607 / API 6FA
Actuator Mounting	As per ISO 5211
Stem Design	Blow-out proof design
Material	WCB, CF8, CF8M, CF3, CF3M, A105, F316, F304 and Gun Metal
Codes & Standerds	ISO 17292/ Bs5351/ASME B 16.34

MATERIAL OPTIONS

ACTUATION OPTIONS (AS PER ISO S211)

APPLICATIONS

Chemical Industry | Oil & Gas Industry | Water Treatment Plants | Pharmaceutical Industry | Food & Beverage Industry | HVAC Systems | Steam & Gas Systems | General Industrial Applications

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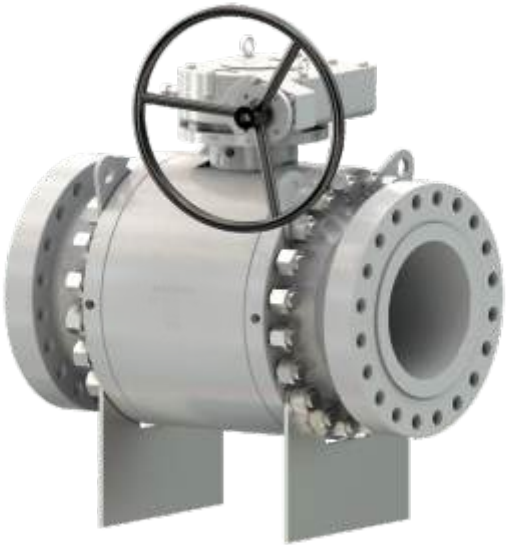
TRUNNION MOUNTED BALL VALVE

Reliable Performance | Zero Leakage | Fire Safe

OVERVIEW

Trunnion mounted ball valves are engineered for high pressure and large diameter applications.
The trunnion design supports the ball at both the top and bottom, reducing operating torque and ensuring superior performance, reliability and safety.

- High Strength Trunnion Design
- Zero Leakage
- Fire Safe API 607 / API 6FA
- Low Torque Operation
- Actuator Mounting ISO 5211
- Blow-out Proof Stem



TRUNNION MOUNTED DESIGN
Top & bottom supported ball for stability and low operating torque

FULL BORE & REDUCE BORE
Available in full port & reduce port for versatile applications.

HIGH PRESSURE CAPABILITY
Suitable for high pressure services up to Class 2500

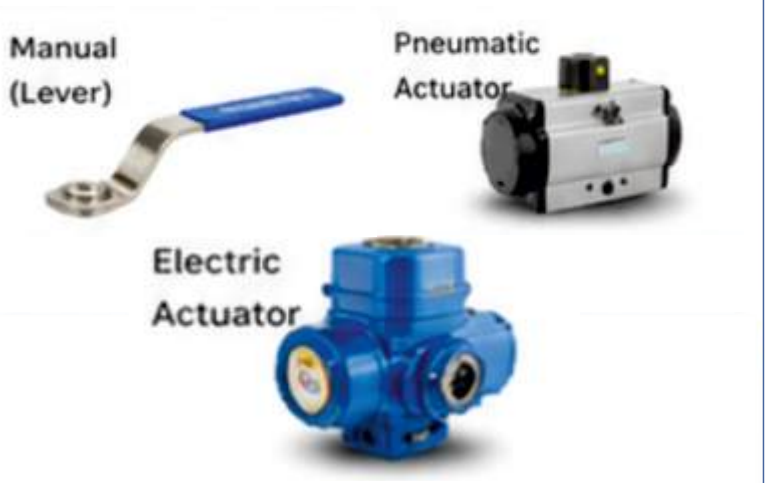
DURABLE & RELIABLE
Robust construction for long service life in harsh conditions.

WIDE RANGE OF APPLICATIONS
Ideal for Oil & Gas, Petrochemical, Power and Process Industries.

TECHNICAL SPECIFICATIONS

Design Type	Two- and three-piece design trunnion mounting, full port and reduce port
Size	2" (DN50) to 24" (DN 600)
Pressure Rating	CLASS150,300,600,900,1500 & 2500
Seat	PTFE, RPTFE, CFT, GFT, GRAFOIL, SS316, INCONEL (TC COATING/CRC COATING) For Matel Setad
Temperature	-20° C to 550° C
End Connection	Flanged End
Anti-static Device	Yes
Fire Safe	Compliance with API 607 / API 6FA
Actuator Mounting	As per ISO 5211
Blow-out Proof Stem	Yes
Material	WCB, CF8, CF8M CF3, CF3M, A105, F316, F304 AND GUN METAL
Codes & Standards	ISO 17292 / BS5351/API6D/ASME B 16.34 / ISO 5211

ACTUATION OPTIONS (AS PER ISO 5211)



APPLICATIONS

- Oil & Gas Industry
- Petrochemical Industry
- Refinery Industry
- Power Generation
- Chemical Processing
- Water Treatment Plants
- Pulp & Paper Industry
- LNG & Cryogenic Applications

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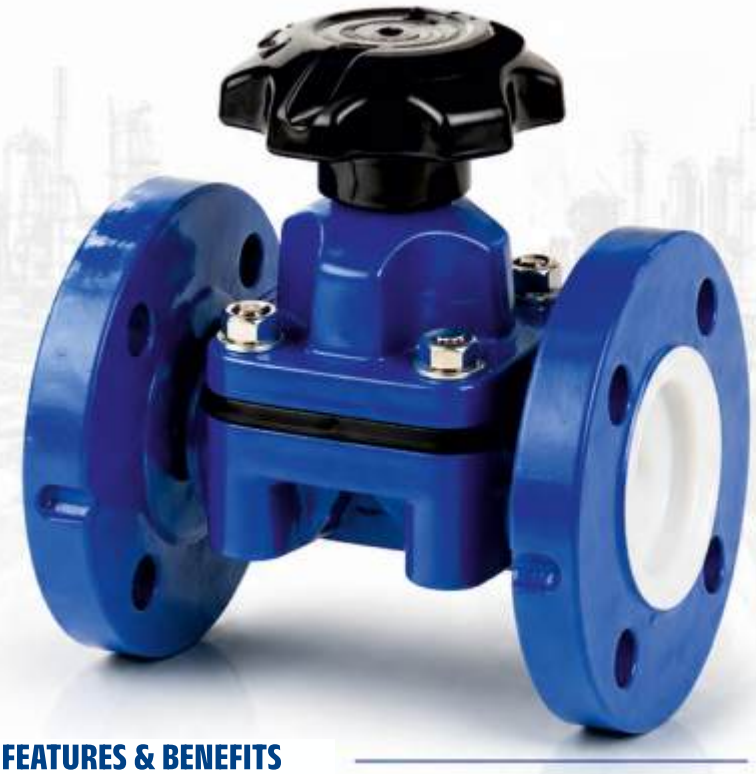
DIAPHRAGM ACTUATOR

Reliable. Durable. Efficient.

OVERVIEW

Diaphragm actuators are used to operate a wide variety of valves in industrial applications. Designed for reliable performance, long service life and excellent sealing capability, these actuators ensure accurate control and maintenance-free operation.



100% BUBBLE TIGHT
Ensures zero leakage and high reliability.

EMISSION LESS
Environment friendly design for a cleaner tomorrow.

LOW MAINTENANCE
In line maintenance with minimal downtime.

LONGER LIFE
Nylon reinforced diaphragm for extended service life.

VISIBLE ON-OFF INDICATION
Easy status identification for better process control.

TECHNICAL SPECIFICATIONS

Seat	PTFE, RPTFE, CFT, GFT, GRAFOIL
Temperature	-20°C to 180°C
Maintenance	In line maintenance
Tightness	100% Bubble Tight

FEATURES & BENEFITS

- Valve sizes:- 1/2" to 8"
- Material :- cast Iron, SGI, WCB, CF8, CF8M
- Pressure :- PN3 TO PN16 Barg.
- Operating:- Manual and auto both.
- 100% Bubble Tight
- Emission less
- Linings Wide range of Diaphragms and Linings
- Can be used in any orientation/position
- In line maintenance
- Longer Diaphragm Life due to Nylon Reinforcement.
- Moulded Open design of Diaphragm for Longer Life.
- Visible On-off Indication on the valve.
- Lubrication reservoir provided for smooth

APPLICATIONS

Oil & Gas Industry | Petrochemical Industry | Refinery Industry | Power Generation | Chemical Processing | Water Treatment Plants | Pulp & Paper Industry | LNG & Cryogenic Applications

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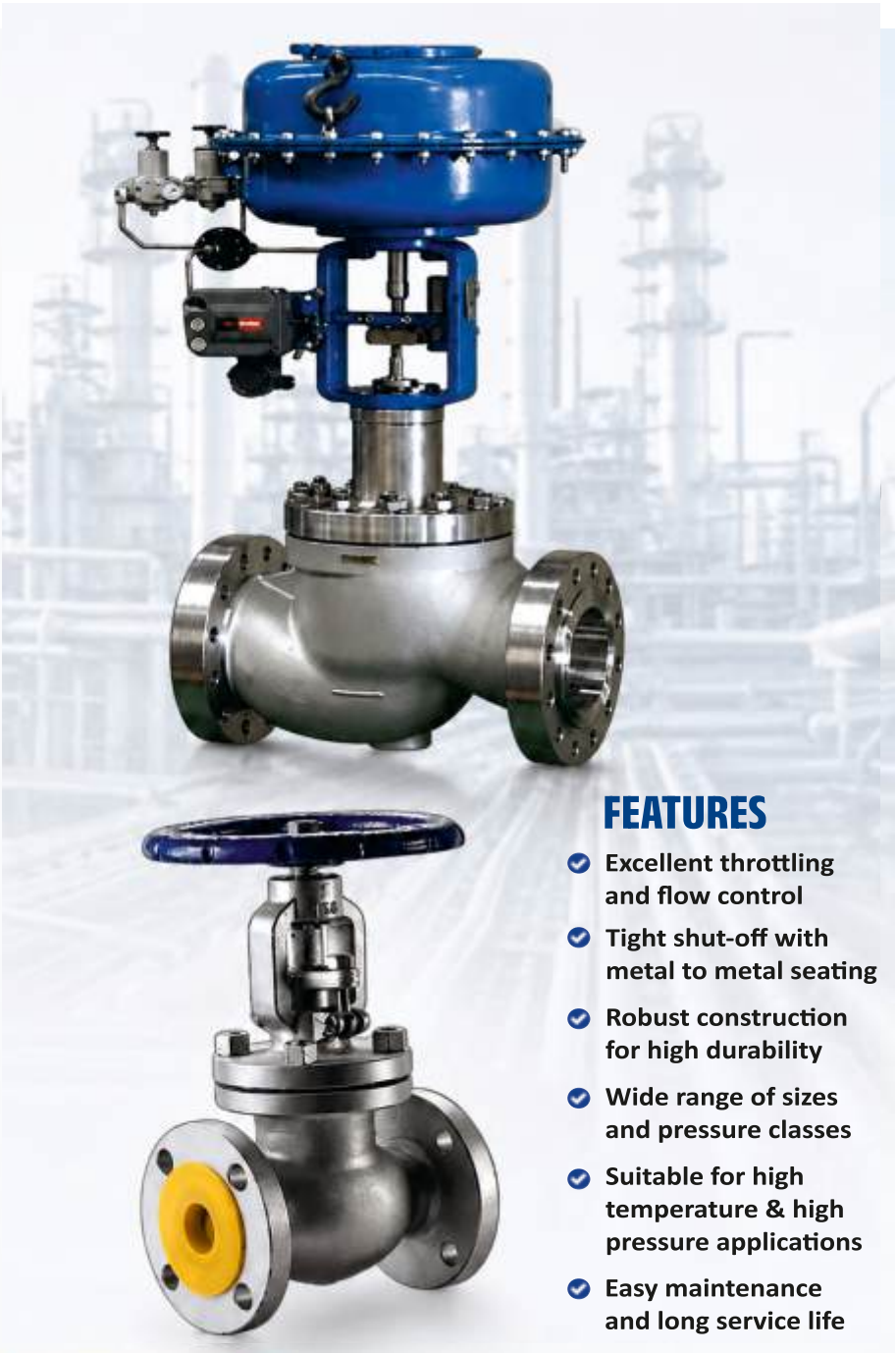
GLOBE VALVE

Precise Control | High Performance | Long Lasting

OVERVIEW

Trinity Globe Valves are designed for throttling and regulating flow in a wide range of industrial applications. Built with robust materials and precision engineering, our globe valves ensure excellent shut-off, tight sealing and long service life even in severe operating conditions.



TECHNICAL SPECIFICATIONS

- **Valve Sizes:** 2" to 12"
- **Class:** 150, 300, 600, 900
- **Material of Construction:** Ductile Iron, WCB, CF8, CF8M
- **Designed to meet requirements of** Design as per API 6D, BS1873 ASMEB16.34, 6A
- **Face to Face** ASME B16.10/ISO 5752
- **Flanged end Connection Std** ASME B16.5 & API 602
- **Buttweld End Connection Std** ASME B 16.25
- **Pressure - Temperature Rating** ASME B16.34
- **Testing Standard** API-598, ISO 5208

FEATURES

- Excellent throttling and flow control
- Tight shut-off with metal to metal seating
- Robust construction for high durability
- Wide range of sizes and pressure classes
- Suitable for high temperature & high pressure applications
- Easy maintenance and long service life

APPLICATIONS

- Water & Waste Water Treatment
- Chemical & Petrochemical
- Oil & Gas Industry
- Pulp & Paper Industry
- Power Plants
- Marine & Ship Building

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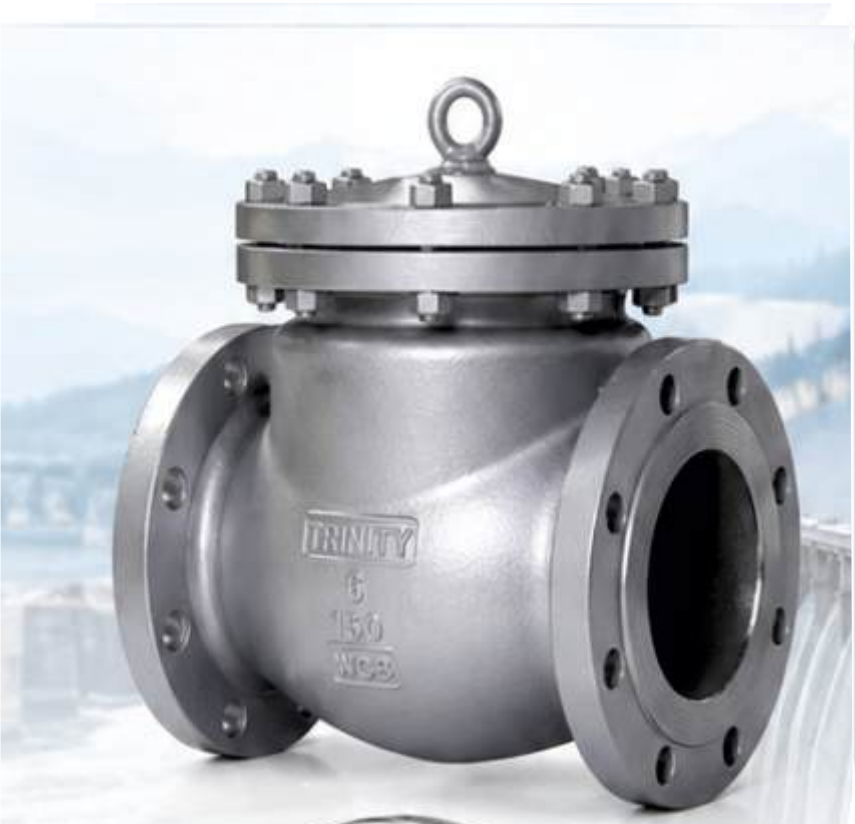
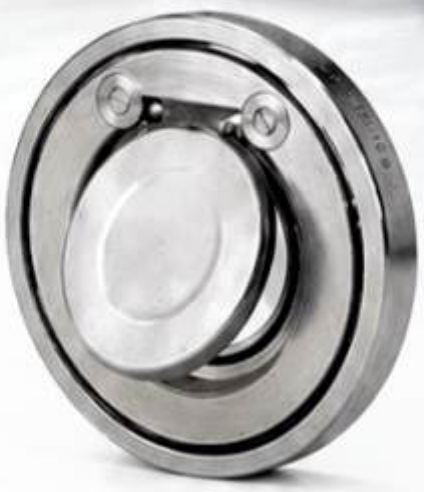
CHECK VALVE

Reliability in Flow | Trust in Performance





TECHNICAL SPECIFICATIONS

- **Valve Sizes:** 2" to 36"
- **Class:** 150–2500
- **Material of Construction:** Ductile Iron, WCB, CF8, CF8M
- **Designed to meet** requirements of Design as per: API 6D, BS 1868 API 594
- **Face to Face -** ASME B16.10 / ISO 5752 / API 6D
- **Flanged End Connection Std:** ASME B16.5 / 16.47 A & B
- **Buttweld End Connection Std:** ASME B16.25
- **Pressure-Temperature** Rating:ASME B16.34
- **Testing Standard -** API-598, ISO 5208

FEATURES & BENEFITS

Prevent Backflow
Automatically prevents reverse flow in the system.

High Durability
Bonnet Cover Robust construction ensures long service life even in tough conditions.

Leak Tight Performance
Precision seating ensures zero leakage.

Versatile Applications
Suitable for water, oil, gas, chemical and various industrial applications.

Low Maintenance
Simple design for easy installation and minimal maintenance.

APPLICATIONS

- Water & Waste Water Treatment
- Chemical & Petrochemical
- Oil & Gas Industry
- Pulp & Paper Industry
- Power Plants
- Marine & Ship Building

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LIFT - CHECK VALVE

Reliable. Durable. Efficient.

LIFT- CHECK VALVE

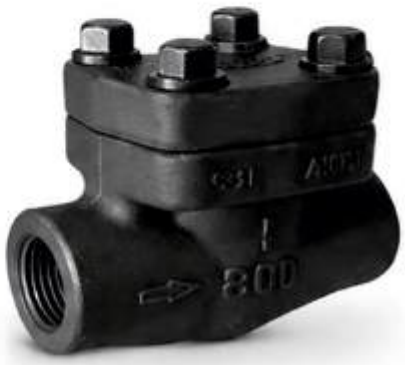
Forged steel check valves are designed for high pressure, high temperature and demanding applications where reliability and durability are critical.

HIGH STRENGTH
Forged steel body for excellent durability and strength.

HIGH PRESSURE RATING
Designed for Class 800/1500/2500 applications.

LEAK TIGHT PERFORMANCE
Screwed & socket weld ends for leak-proof service.

RELIABLE & SAFE
Ensures unidirectional flow and protects the system from backflow.



Petrochemical Industry | Oil & Gas Industry | Power Plants | Process Industry

TECHNICAL SPECIFICATIONS

Valve size	DN15(1/2") to DN50 (2")
Pressure rating	Class 800/1500/2500
Ends	Screwed & Socket Weld
Body	Forged Steel A105, F304, F316, F11, F22
Trim	SS304, 316, AISI 410
Design Standard	API 602
Testing Standard	API 598
Temperature Range	-29°C to 425°C (Depending on material)

HIGH PRESSURE NEEDLE VALVE

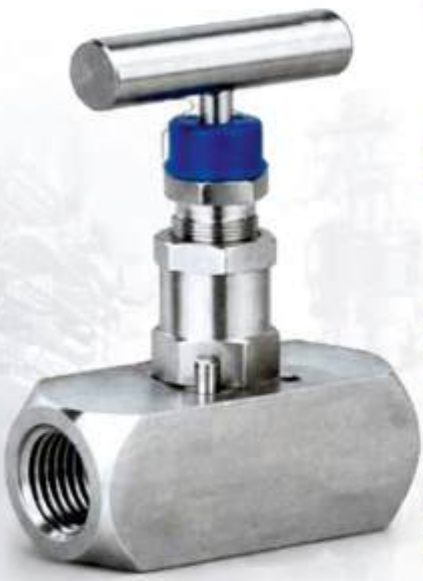
High pressure needle valves are precision engineered for accurate flow control in high pressure and high temperature applications. Ideal for instrumentation and throttling services.

TECHNICAL SPECIFICATIONS

Valve size	DN6 (1/4") to DN50 (2")
Pressure rating	1000/3000/6000/9000 PSI
Ends	Screwed
Body	SS 304/316
Trim	SS304,316
Stem Type	Rising Stem
Packing	PTFE / Graphite
Operation	Manual
Temperature Range	-54°C to 232°C (Depending on material & pressure)

APPLICATIONS

Instrumentation Systems | Process Control | Hydraulic Systems | Gas & Liquid Services | High Pressure Applications



PRECISE FLOW CONTROL
Provides accurate flow regulation in high pressure systems.

HIGH PRESSURE CAPACITY
Suitable for up to 9000 PSI working pressure.

CORROSION RESISTANT
SS 304/316 construction ensures long service life and corrosion resistance.

COMPACT & RELIABLE
Compact design for easy installation and maintenance

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SCOTCH YOKE ACTUATOR

Powerful Actuation. Reliable Performance.

Scotch Yoke Actuators are designed for quarter-turn operation of ball, butterfly and plug valves. Engineered for high torque output, long life and low maintenance, these actuators deliver reliable performance in demanding industrial applications.

HIGH TORQUE OUTPUT
Delivers high starting and running torque for smooth valve operation

RELIABLE & DURABLE
Robust construction ensures long service life and continuous reliability.

LOW MAINTENANCE
Simple and compact design reduces downtime and maintenance requirements.

WIDE TEMPERATURE RANGE
Built to perform in extreme hot and cold environments.

FLEXIBLE APPLICATION
Suitable for on/off and modulating service in various industries.

FEATURES & BENEFITS

- Double acting :- Stay put.
- Single acting :- Fail safe condition close and open.
- Torque range: 2000Nm to 200000Nm.
- Design standard :- EN ISO 15714-3 / API 6DX
- Valve mounting standard :- ISO 5211
- Pressure :- Min. Operating pressure 2 bar.
  Max. Operating pressure 8 bar.
- Temperature rating deg. - NORMAL - NITRILE-20°C and +80°C
- HIGH - VITON -20°C and +149°C
- Low - silicon -up to -49°C
- TRAVEL STOP :- +/- 5 deg.
- Extra travel stop arrangement :- 100% opening and closing travel stop arrangement.
- Bottom valve stem drive:- Standard square drive with star for 90 deg. And diagonal.
- Body :- Ductile iron or mild steel
- Piston and end cal:- Mild steel and stateless steel
- Piston rod :- En24 with electro nickel plated. (ENP)
- Bearings :- Bronze filled PTFE self lubricated for long life.
- O ring :- High quality NBR/VITON/SILICON
- Spring:- En47 spring with powder coated.
- MOR-H/W, WORM HW,HYDRAULIC

APPLICATIONS

OIL & GAS INDUSTRY | CHEMICAL INDUSTRY | POWER PLANTS | WATER TREATMENT | MARINE & OFFSHORE | GENERAL INDUSTRY

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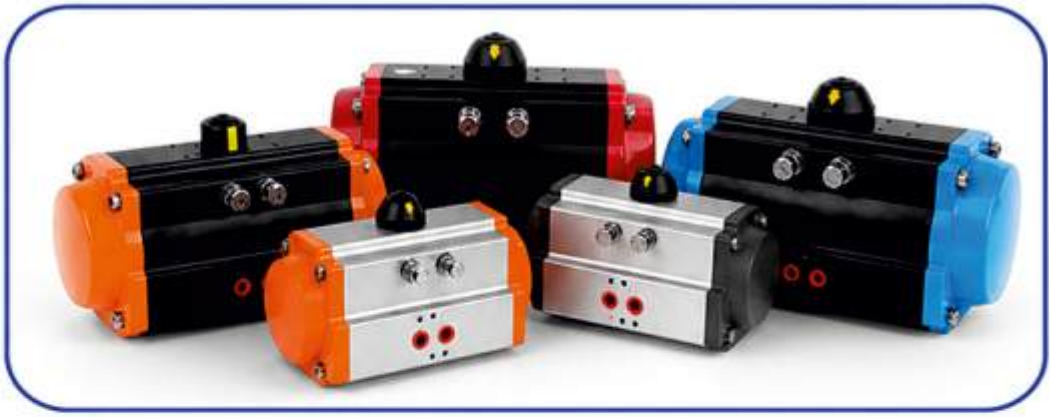
RACK AND PINION ACTUATOR

Compact Design. High Performance. Long Life.

Rack and Pinion Actuators are compact, lightweight and highly efficient actuators suitable for quarter-turn operation of ball, butterfly and plug valves. Designed for reliability, precision and long service life in all industrial applications.



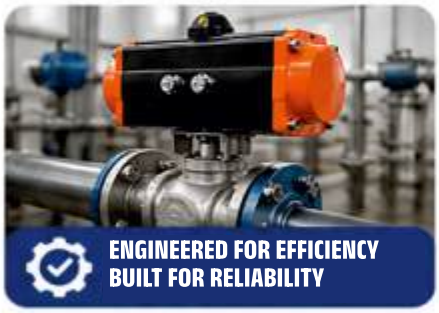
COMPACT & LIGHTWEIGHT
Space saving design with high power-to-weight ratio.

RELIABLE & DURABLE
Built with premium materials for long service life and consistent performance.

HIGH PERFORMANCE
Precise rack and pinion mechanism for accurate quarter-turn operation.

WIDE TEMPERATURE RANGE
Designed to operate in extreme hot and cold environments.

EASY MAINTENANCE
Simple modular design allows quick and easy maintenance on site.



ENGINEERED FOR EFFICIENCY
BUILT FOR RELIABILITY

TECHNICAL SPECIFICATIONS

Double acting:	Stay put.
Single acting:	Fail safe condition close and open.
Torque range:	5 nm to 4800 nm
Design standard:	EN ISO 15714-3 / API 6DX
Valve mounting standard:	ISO 5211
Pressure:	Min. Operating pressure 2 bar. Max. Operating pressure 8 bar.
Temperature rating deg.:	NORMAL NITRILE - 20 deg * C and 80 deg * C HIGH - VITON - 20 deg * C and 149 deg * C LOW - SILICON - up to - 49 deg * C
Travel stop:	+/- 5 deg
Extra travel stop arrangement:	100% opening and closing travel stop arrangement.
Bottom valve stem drive	Standard square drive with star for 90 degree And diagonal.
Body:	Extruded aluminium with hard anodised body.
Piston and end cal.:	Aluminium die cast.
Pinion:	En8 with electro nickel plated. (Enp)
Bearings:	Bronze filled ptfe for long life.
O ring:	High quality NBR/VITON/SILICON
Spring:	Preloaded cartridge type spring design with powder coated (easily replace on site)

APPLICATIONS

OIL & GAS INDUSTRY | CHEMICAL INDUSTRY | POWER PLANTS | WATER TREATMENT | MARINE & OFFSHORE | GENERAL INDUSTRY

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PISTON ACTUATOR (HEAVY DUTY)

Engineered for Power. Built for Perfermance.

Heavy duty piston actuators are designed for precise control and reliable operation in demanding industrial applications.
Built with robust materials and advanced engineering to ensure long service life, safety and superior performance.

HIGH PERFORMANCE
Delivers high output torque and smooth operation for control and gate valves.

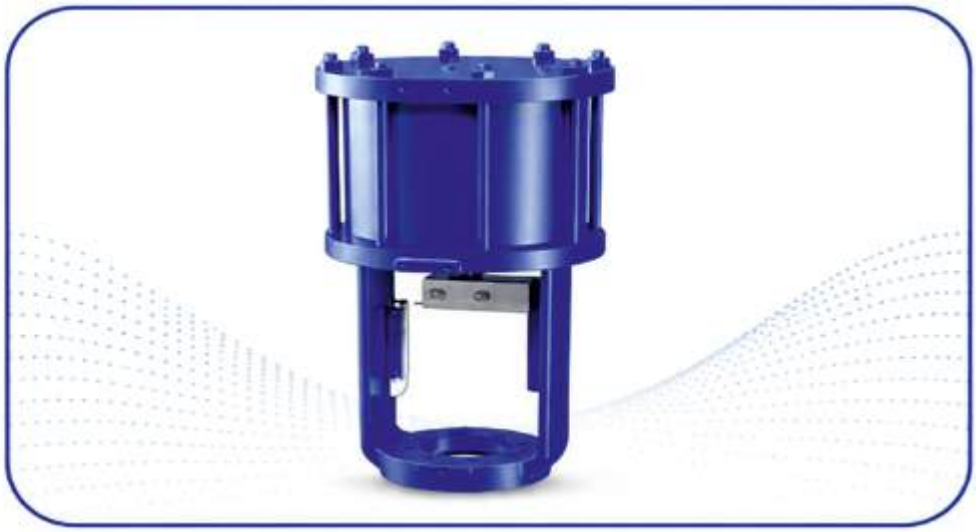
HEAVY DUTY CONSTRUCTION
Manufactured using premium materials for extended service life in harsh environments.

WIDE TEMPERATURE RANGE
Designed to operate efficiently in extreme hot and cold conditions.

LOW MAINTENANCE
Self lubricated components minimize wear and ensure trouble free operation.

PRECISE CONTROL
Suitable for control valve and gate valve applications with inner operation.

BUILT FOR RELIABILITY
ENGINEERED FOR EXCELLENCE



TECHNICAL SPECIFICATIONS

Double Acting	Stay put.
Single Acting	Fail safe condition close and open.
Design Standard	EN ISO 15714-3 / API 6DX
Valve Mounting Standard	As per customer requirement
Pressure	Min. Operating pressure 2 bar. Max. Operating pressure 8 bar.
Temperature Rating Deg.	NORMAL - NITRILE -20°C and +80°C HIGH - VITON -20°C and +149°C LOW - SILICON -up to -49°C
Extra Travel Stop Arrangement	100% opening and closing travel stop arrangement.
Body	Mild steel and carbon steel
Piston	Mild steel / Stainless steel
Piston Rod	EN24 with electro nickel plated. (ENP)
Bearings	Bronze filled PTFE self lubricated for long life.
O Ring	High quality NBR/SILICON/VITON
Spring	EN47 spring with powder coated.
Valve Type	Control valve and gate valve. And liner operation.

APPLICATIONS

OIL & GAS INDUSTRY | CHEMICAL INDUSTRY | POWER PLANTS | WATER TREATMENT | MARINE & OFFSHORE | GENERAL INDUSTRY

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ELECTRICAL ACTUATOR

Smart Actuation. Reliable Performance.

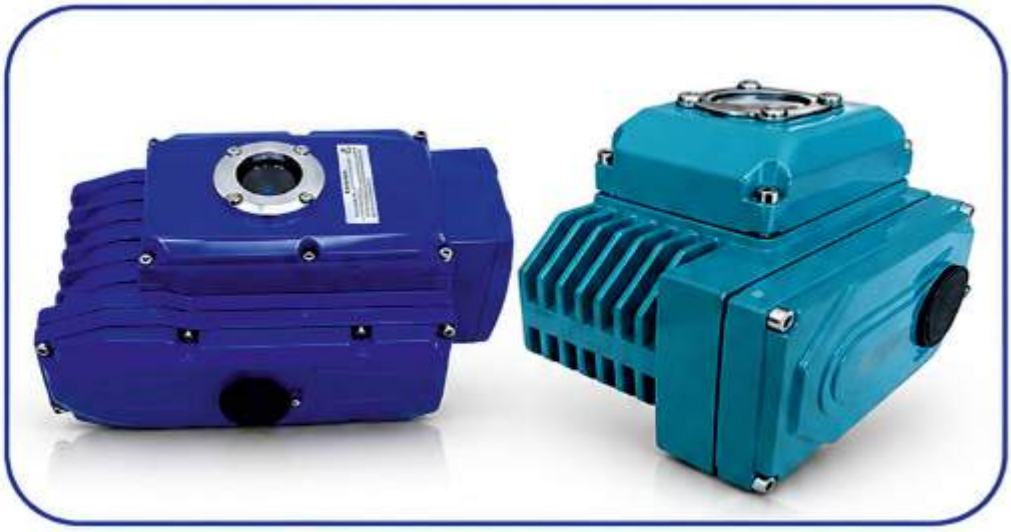
COMPACT & POWERFUL
Compact design with high performance and long service life.

DURABLE & RELIABLE
Premium materials ensure maintenance-free operation even in aggressive environments.

MODULAR DESIGN
Modular construction allows easy addition of optional features as per application needs.

LOW THERMAL LOADING
Engineered to ensure low thermal loading on the actuator for enhanced durability and safety

DIRECT MOUNTING
Direct mounting on quarter-turn valves (ball and butterfly valves).



The electrical rotary actuator Type 9003 is a compact and powerful actuator system with a long service life. Materials and components have been chosen for a maintenance-free operation even in aggressive environments and ensure low thermal loading on the actuator. The modular design offers many additional features to be added to the basic device such as extra limit switches, potentiometers and emergency power. With the control actuator version the input signals as well as the output signals (e.g., 4...20 mA, 0...20 mA, 0...10 V) can be programmed. Heating resistors and torque limiters are standard features. Direct mounting on quarter-turn valves (ball and butterfly valves)

KEY FEATURES

- Manual override in standard
- Adjustable limit switches
- Multi-voltage
- Torque switches
- Torque Range 10Nm to 500Nm

APPLICATIONS

- OIL & GAS INDUSTRY
- CHEMICAL INDUSTRY
- POWER PLANTS
- WATER TREATMENT
- MARINE & OFFSHORE
- GENERAL INDUSTRY

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QUARTER-TURN MANUAL GEAR BOX

FOR MANUAL OPERATION Reliable. Robust. Efficient.

HIGH EFFICIENCY
Designed for higher efficiencies and lower input effort on handwheel.

HIGH TORQUE CAPACITY
12 models up to 60,000 Nm torque capacity.

RUGGED & RELIABLE
Rugged design with high performance components for long service life.

SMOOTH OPERATION
High performance axial bearings for smooth and easy operation.

WEATHER PROOF
Enclosure sealed to IP-65 for protection in harsh environments.

WIDE TEMPERATURE RANGE
Operates efficiently in temperatures from -20°C to +120°C.

VERSATILE OPTIONS
Multiple material, mounting and operation options to suit various applications.

DESCRIPTION & FEATURES

◆ High Efficiency	:	Designed for higher efficiencies and lower input effort on handwheel
◆ Torque Capacity	:	12 models up to 60,000 Nm torque capacity.
◆ Worm Shafts	:	Alloy steel worm shafts
	:	
◆ Design	:	Rugged design
◆ Bearings	:	High performance axial bearings
◆ Coating	:	Polyurethane coating
◆ Top Flange	:	Integral top flange (ISO drive coupling available on request)
◆ Enclosure Protection	:	Enclosure sealed to IP-65
◆ Temperature Range	:	- 20 deg * C (- 4 deg * F) to 120 deg * C (248 deg * F)
◆ Handwheel Coating	:	Powder coated handwheels for smooth and easy operation
◆ Stroke	:	0 - 90 deg (+ 5 deg adjustable)
◆ Clutch Mechanism	:	Smooth and easy clutch - declutch mechanism
◆ Housing Material	:	Ductile iron / Stainless steel
◆ Materials Options	:	Worm shaft, fasteners and hand wheel material option available in stainless steel
◆ Worm Wheel Material	:	Aluminum bronze option available
◆ High Temp. Variant	:	Up to 200°C(392°F)
◆ Low Temp. Variant	:	Down to - 52°C(- 58°F)
◆ Marine Application	:	All exposed shafts and fasteners in stainless steel
◆ Finish	:	Finish painting available on request
◆ Padlock Arrangement	:	Option available
◆ Operation Type	:	Chainwheel operation available

APPLICATIONS

OIL & GAS INDUSTRY | CHEMICAL INDUSTRY | POWER PLANTS | WATER TREATMENT | MARINE & OFFSHORE | GENERAL INDUSTRY

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DE-CLUTCHABLE QUARTER-TURN

MANUAL OVERRIDES FOR PNEUMATIC ACTUATION Reliable. Robust. Efficient.

HIGH EFFICIENCY
Designed for higher efficiencies and lower input effort on handwheel

HIGH TORQUE CAPACITY
11 models up to 35,000 Nm torque capacity.

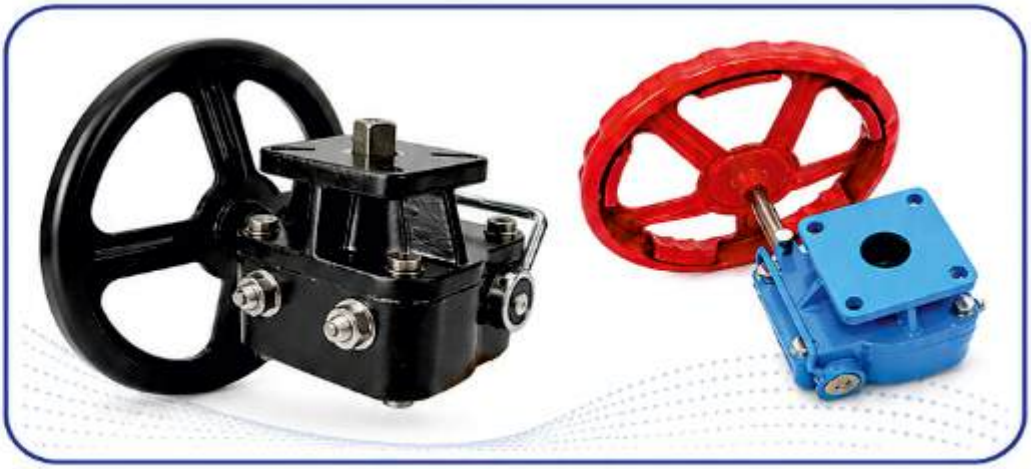
RUGGED & RELIABLE
Rugged design with high performance components for long service life.

WEATHER PROOF
Enclosure sealed to IP-65 for protection in harsh environments.

WIDE TEMPERATURE RANGE
Operates efficiently in temperatures from -20°C to +120°C.

EASY OPERATION
Smooth and easy clutch -declutch mechanism for safe manual operation.

VERSATILE OPTIONS
Multiple material, mounting and operation options to suit various applications.



DESCRIPTION & FEATURES

Higher Efficiency	Designed for higher efficiencies and lower nput effort on handwheel
Torque Capacity	11 models up to 35,000 Nm torque capacity.
Worm Shafts	Alloy steel worm shafts
Design	Rugged design
Bearings	High performance axial bearings
Coating	Polyurethane coating
Top Flange	Integral top flange (ISO drive coupling available on request)
Enclosure Protection	Enclosure sealed to IP-65
Temperature Range	- 20 deg * C (- 4 deg * F) to 120 deg * C (248 deg * F)
Handwheel Coating	Powder coated handwheels for smooth and easy operation
Stroke	0 - 90 deg 5 deg adjustable)
Clutch Mechanism	Smooth and easy clutch - declutch mechanism
Housing Material	Ductile iron / Stainless steel
Materials Options	Worm shaft, fasteners and hand wheel material option available in stainless steel
Worm Wheel Material	Aluminum bronze option available
High Temp. Variant	Up to 200°C(392°F)
Low Temp. Variant	Down to - 52°C (- 58°F)
Marine Application	All exposed shafts and fasteners in stainless steel
Finish	Finish painting available on request
Padlock Arrangement	Option available
Operation Type	Chainwheel operation available

APPLICATIONS

OIL & GAS INDUSTRY | CHEMICAL INDUSTRY | POWER PLANTS | WATER TREATMENT | MARINE & OFFSHORE | GENERAL INDUSTRY

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LIMIT SWITCH BOX

Reliable Indication. Durable Protection Engineered for Performance.

DURABLE CONSTRUCTION
Built with high quality materials for long service life and reliability.

WEATHER PROOF
IP 65, IP 67, or IP 68 rated enclosures for harsh environments

WIDE TEMPERATURE RANGE
Operates efficiently in temperatures from -20°C to 80°C.

EASY WIRING
1½" conduit entries for quick and secure installation.

HIGH SWITCH RATING
Suitable for AC and DC applications with various voltage & current ratings.

CORROSION RESISTANT
High corrosion resistance with robust polycarbonate dome.

STANDARD MOUNTING
NAMUR mounting as standard. VDI/VDE 3845 compliant.

ATEX CERTIFIED
Weather proof IP 65/IP67 / ATEX for safe operation in hazardous areas.

SPECIFICATIONS

Body Material	Limit switch boxes can be made from aluminium die cast, polyamide, or glass reinforced resin
Enclosure Protection	Limit switch boxes can be weatherproof with an IP 65, IP 67, or IP 68 rating
Temperature Range	Limit switch boxes can operate in temperatures ranging from -20°C to 80°C
Conduit Entry	Limit switch boxes can have 1/2" conduit entries
Switch Rating	Limit switch boxes can have an AC switch rating of 250V 3A or 125V 5A, or a DC switch rating of 250V 0.2A, 125V 0.4A, 30V 4A, 14V 5A, or 8V 5A
High corrosion resistance.	Ensures durability even in aggressive environments.
Polycarbonate dome.	Provides clear and reliable position indication.
(2) 1½" conduit entries.	Standard dual conduit entries for easy installation.
Namur mounting as standard. VDI/VDE 3845	Universal mounting for easy integration with actuators and valves.
Weather proof IP 65/IP67/ATEX.	ATEX certified for use in hazardous and explosive atmospheres.

APPLICATIONS

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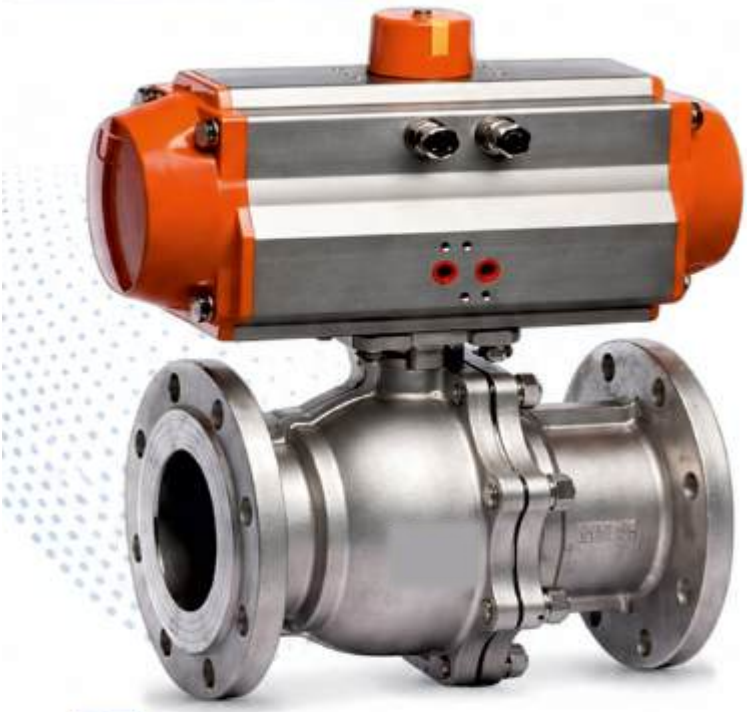

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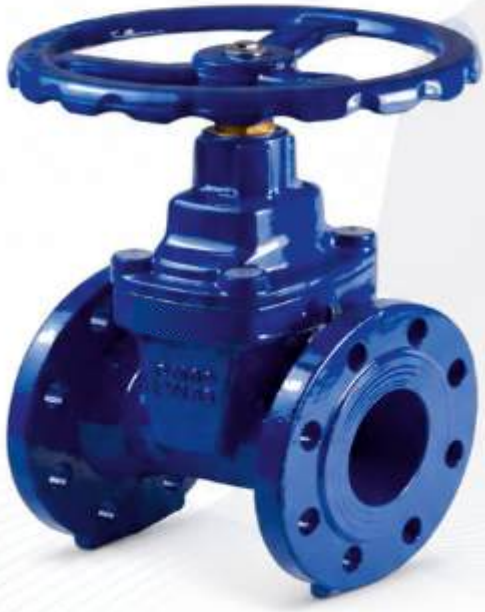
- Heavy Engineering
- Boiler Manufacturers
- Equipment MFGR's
- Sugar Plant MFGR's
- Petroleum Refineries
- Fertilizers
- Power Plant

INDUSTRIES SERVED

- Steel & Allied Industry
- Chemical Industry
- Oil & Gas
- Cement
- Dairy
- Pharmaceuticals
- Sewage Treatment
- Water Treatment
- Textile Industry



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