



Hybrid solution for uninterrupted flow control...



## Valves & Valve Automation Product Portfolio

[www.ABtork.com](http://www.ABtork.com)



## About Us

**"ABtork Valves"** is a start-up aiming one window solutions consist manufacturing, consulting, trading & servicing the valves and valve automation for hassle free experience to our prestigious customers. Hoping our 15 year's industry experience of manufacturing, assembling, consulting & selling industrial products will benefits our customers in all. We at **"ABtork Valves"** dedicated to our product quality & service for best outcomes as whole and sole supplier for your all industrial product requirements.

We **"ABtork Valves"** specialize in designing and manufacturing a wide range of customized high performance manually operated, automated ON-OFF and actuated Ball Valves, Butterfly Valves, Globe Valves, Gate valve, Check Valves, Solenoid valves & Control Valves for any kind of fluid handled in the Oil, Gas, Water, Steam, Pharmaceutical and Power Generating Industry.

**"ABtork Valves"** is a privately owned medium-size firm, which favors a partnering approach with both customers and suppliers and grants flexibility and quick response times for all inquiries, clarification and support.

Within our own facility, we are currently capable of designing, assembling and testing in accordance with almost all the recognised standards and Customer specifications. ABtork's range of production includes the use of such materials like Cast Iron, Cast Steel, Stainless Steel, Super Duplex, Duplex, Monel, Inconel and many other alloys.

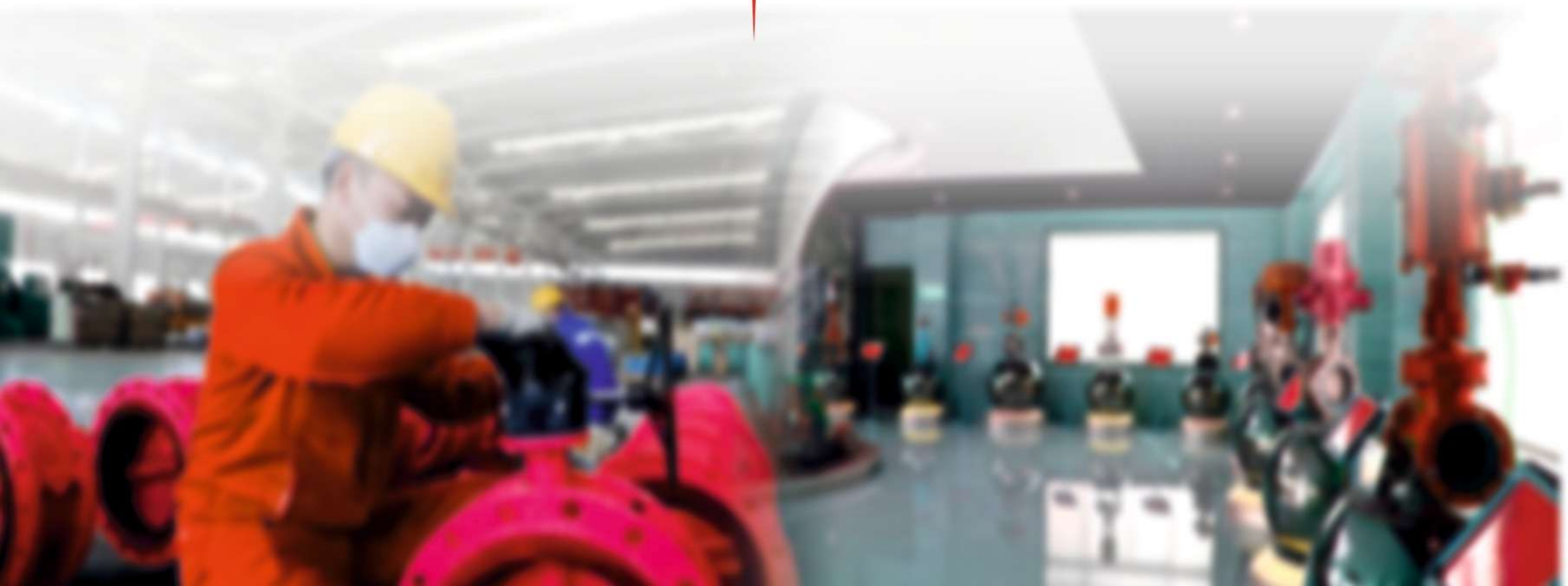
Technical expertise, design and experience in producing valves are our strong assets, thanks to a highly experienced team of valve engineers, a professional approach to the technical aspects of valve designing & a deep knowledge of the most advanced CAD-3D software in the market.

**"ABtork Valves"** have gained a reputation for achieving exceptional customer service by combining experience, proven technology, high-end engineering solutions..at competitive prices.

## **INDUSTRIES WE SERVE**

**POWER PLANTS, STEEL PLANTS,  
PAINT, CEMENT,  
PAPER & PULP,  
WATER WORKS, HVAC,**

**CHEMICAL, FERTILIZERS,  
FOOD & PHARMA,  
BIO-WASTE, OIL & GAS REFINERIES,  
EPCS AND OEMS...**



## Mission



"To be the preferred partner for sustainable flow control solutions, supplying high-performance valves that optimize industrial efficiency and set new standards for excellence."

## Vision



"To empower India's growing industries with highly reliable valves, built on a foundation of innovative engineering and comprehensive quality verification."

## Quality Assurance & Technical Expertise

ABtork Valves, quality is the foundation of our engineering process. Quality execution is non negotiable. All activities carried out within ABtork adhere to strict, documented procedures specified in our Quality System Manual, ensuring every task is accomplished only by qualified personnel.

Technical know-how and design experience represent the core assets of ABtork. We maintain a professional, data-driven approach to valve design, incorporating the most advanced CAD-3D and trending market technologies

Operational efficiency is driven by a comprehensive, computerized production management system. This system ensures full oversight and traceability of the entire product lifecycle: raw material receipt, CNC machining, assembly, hydrostatic/Pneumatic testing, and final documentation/packing



## Why ABtork Valves ?

### FLEXIBILITY

Our lean and fully integrated organization, together with our special Business relationship with some key and strategic suppliers, allow us to deal with any kind of customer's request and ensure the best industry delivery time

### RELIABILITY

A team of highly knowledgeable and capable people, coupled with strong processes, allows us to design, manufacture and deliver a large range of high quality valves, everyday, everywhere. We are committed to walk our talks.

### PASSION

We treat your operational success as our own. By deeply understanding the need of the fluid control industry, we move beyond being a vendor to becoming a strategic partner. We are committed to earning your trust by delivering precision engineering that exceeds expectations.



"ABtork" Make Manual & Actuator operated Ball Valves are precision-engineered to meet stringent industry-specific requirements and comply with the latest international standards. Designed for longevity and high-cycle performance, our valves ensure hassle-free operation across both critical isolation and precise regulating duty applications.



## Technical Specifications

▶ <b>Size Range</b>	<b>15MM to 250MM</b>
▶ <b>Design/construction</b>	<b>Single piece / Two piece / Three piece</b>
▶ <b>End Connections</b>	<b>Screwed End / Flanged End / SW / BW / TC</b>
▶ <b>Flow paths/Ports</b>	<b>2 Way / 3 Way / 4 Way</b>
▶ <b>Design &amp; Manufacturing standards</b>	<b>ASME B16.34 / BS 5351 / BS EN ISO 17292 / API6D</b>
▶ <b>Valve Face to Face Dimensions</b>	<b>ASME B16.10 / API6D</b>
▶ <b>Flange Standard Conformity / Pressure Rating</b>	<b>ASME B16.5 Class 150/300/600/800</b>
▶ <b>Inspection &amp; Testing</b>	<b>API 598 / BS EN ISO 17292 / BSEN 12266-1</b>

## Features / Benefit

Full Bore, Reduce Bore, Blow Out Proof Stem, Low Torque, Anti-static Device, Extended Stem, Floating Ball, Fire Safe Test Requirement as per API 607 & API 6FA, ISO Mounting Pad, Locking Arrangement on request

## Materials Availability

Body: A105, WCB, CF8, CF8M, Super Duplex, LCB etc.  
 Ball : CF8 (SS 304), CF8M (SS 316), CF3M (SS 316L)  
 Seat : PTFE , RPTFE, GFT, CFT, Peek, Metal etc.

## Operation

Manual, Gear, Pneumatic, Electric (Motorised), etc.

## Accessories Available On Request.

- Solenoid Valve in all Standard Coil Voltage (Flameproof Coil On Request)
- Pneumatic & Electro - Pneumatic Valve Positioner
- De-clutchable Manual Over-Ride
- Limit Switch for On/Off Indicator at panel Board
- Filter + Regulator with Pressure Gauge
- Air Lock Valve, etc.

At "ABtork", we bridge the gap between complex industrial demands and reliable fluid control. Leveraging decades of industry-oriented expertise, we provide comprehensive design and manufacturing services tailored to your specific technical needs. Whether for bubble-tight isolation or precise modulating duty, our valves deliver consistent, high cycle performance in the most demanding environments. Our high-performance butterfly valves are the backbone of critical processes in Water Works, Steel & Power Generation, Chemical processing, and Food & Pharma & other plants. Partner with us for expert consultation & world-class products that ensure your operational continuity

## Technical Specifications

▶ <b>Size Range</b>	<b>50mm to 1200mm (2 Inch to 48 Inch)</b>
▶ <b>Design/construction</b>	<b>Concentric / Double Eccentric / Triple Eccentric</b>
▶ <b>End Connections</b>	<b>Wafer/ Full Lug &amp; Semi Lug / Double Flanged</b>
▶ <b>Design &amp; Manufacturing standards</b>	<b>BS5155 / BSEN 593 / IS 13095 / AWWA C 504 / API 609 CAT A &amp; B</b>
▶ <b>Valve Face to Face Dimensions</b>	<b>BSEN 593, IS 13095, AWWA C 207, API 609 CAT A &amp; B</b>
▶ <b>Flange Standard Conformity</b>	<b>ASME B16.5 Class 150/300/600/800</b>
▶ <b>Pressure Rating</b>	<b>PN6 / PN10 / PN16 / PN20 / PN24</b>
▶ <b>Inspection &amp; Testing</b>	<b>API / BSEN / AWWA Stds.</b>



**Centric Disc  
Actuator Operated**

## Features / Benefit

Top Mounting Pad as per ISO 5211, Unique Stem retention design & easy assembly & disassembly of valves, Heavy Duty square grooved seat design with moulded O-ring seals to act as flange gasket, Selfenergizing seating design Through flow disc design for large size Butterfly Valves, Different Lining and Metallurgy to suit a wide variety of applications including sea water & water desalination plants

## Materials Availability

- Body:** Cast Iron, WCB, CF8, CF8M, Hast Alloy, Super Duplex, Alloy 20, LCB etc
- Disc:** Ductile Iron, WCB, CF8, CF8M, Hast Alloy, Super Duplex, etc.
- Seals:** EPDM, Nitrile, Viton, PTFE, Metal Seated etc



**Centric Disc  
Double Flanged Design**

## Operation

Manual, Gear, Pneumatic, Electric (Motorised), etc.

## Accessories Available On Request.

- Solenoid Valve in all Standard Coil Voltage (Flameproof Coil On Request)
- Pneumatic & Electro - Pneumatic Valve Positioner
- De-clutchable Manual Over-Ride
- Limit Switch for On/Off Indicator at panel Board off
- Filter + Regulator with Pressure Gauge
- Air Lock Valve, etc



**Off-set Disc  
Actuator Operated**



**Off-set Disc  
Manual Operated**



**Wafer Type**



**Lug Type**



**Lug  
Type Act. Ope.**

# "ABtork" Make Range of Gate & Globe Valves



"ABtork" manufactured Gate and Globe valves are designed and manufactured in strict accordance with international industry standards. Engineered for durability, "ABtork" Gate and Globe valves combine high-quality metallurgy with precision manufacturing which built to meet global industrial benchmarks. Available in diverse sizes and pressure ratings to match your exact requirements. Optimized for dimensional accuracy and a superior service life, reducing your total cost of ownership.

## Technical Specifications

➤ <b>Size Range</b>	15mm to 600mm (up to 24" Inch) above on request
➤ <b>Design/construction</b>	OS & Y Construction / Rising –Non rising Spindle
➤ <b>End Connections</b>	Screwed end / Butt Weld End / Flanged End
➤ <b>Design &amp; Manufacturing standards</b>	Gate Valve –API 600, BS 1414, Globe Valve –BS 1873
➤ <b>Valve Face to Face Dimensions</b>	ASME B16.10
➤ <b>Flange Standard Conformity / Pressure rating</b>	ASME B16.5 Class 150/300/600/800
➤ <b>Inspection &amp; Testing</b>	API 598, ISO 5208



## Features / Benefit

### "Gate Valve"

- Flexible Wedge Design (Choice of Solid or Split Wedge Available)
- Full Port Design
- Renewable Seat Rings & Integral Seat Rings
- Burnish Finish Stem for Low Operating Torque
- Pressure Seal Bonnet or Welded Bonnet on request for High Pressure

### "Globe Valve"

- Renewable Seat Rings, Integral Seat Rings
- Pressure Seal Bonnet or Welded Bonnet, Bellow sealed design on request for High Pressure and critical applications

## Materials Availability

**Body:** A105 / Cast Iron / SG Iron / WCB (cast Steel) / CF8(SS 304) / CF8M (SS 316) / Hast Alloy / Super Duplex Grades, LCB etc.

**Trim:** 13 % Cr / Stellite / CF8 & CF8M / Bronze etc

## Operation

Manual, Gear, Pneumatic, Electric (Motorised), etc.

## Accessories Available On Request.

On/off Indicator / Solenoid Valve / Pneumatic & Electro -Pneumatic Valve Positioner / Manual Over-Ride / Limit Switch for On/Off Indicator at panel Board / Filter + Regulator Combination with Pressure Gauge/ Air Lock Valve, etc. available on request.



We offer a comprehensive portfolio of check valves, each engineered for specific industrial applications:

**Dual Plate Check Valve**

This high-performance variant features heavy-duty springs designed for rapid response to flow changes, providing dynamic control and preventing water hammer. It is designed with a convenient bolt-on top for streamlined installation and maintenance, maximizing operational uptime.



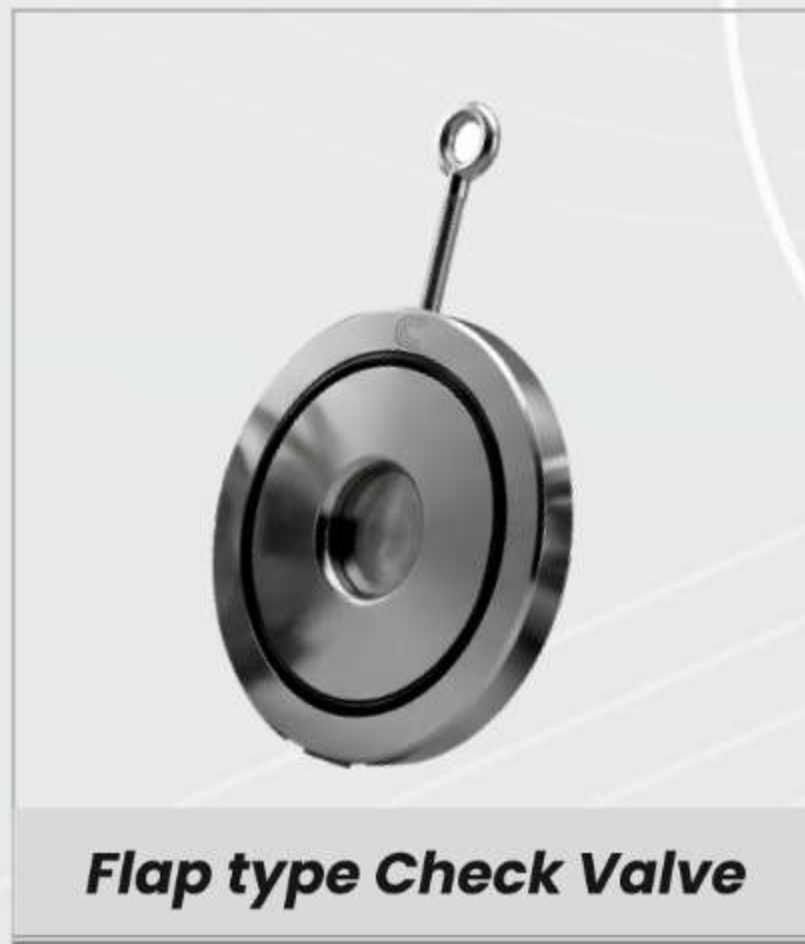
**Wafer Check Valve**

Intricately engineered for efficiency and robust functionality. This design utilizes a responsive disc (swing cap) mechanism that precisely regulates flow and maintains steady operation relative to line pressure, minimizing pressure drop without compromising function



**Swing Check Valve**

The core value proposition of this robust design is its unparalleled durability and reliability in demanding services. This variant features easily renewable and integral seat rings, simplifying field adjustments and extending the valve's service life.



**Technical Specifications**

<b>Application</b>	<b>Non Return Flow</b>
<b>Features / Benefit</b>	<b>Swing Type Design, Renewable Seat Rings, Integral Seat Rings, Lifting Bolt Provided for easy installation</b>
<b>Ansi Class / Rating</b>	<b>150#, 300#</b>
<b>Design Standard</b>	<b>API 594, API 6D</b>
<b>Testing Standard</b>	<b>API 598</b>
<b>F to F Standard</b>	<b>ASME B16.10</b>
<b>End Connection Standard</b>	<b>Wafer OR Flanged end to suit ASME B 16.5 Flange</b>
<b>Size</b>	<b>50 mm to 600 mm (Up to 24")</b>

**Materials Availability**

**Body :** CI, DI, WCB, CF8, CF8M,  
**Disc :** SG IRON, WCB, CF8, CF8M  
**Seat :** EPDM, Nitrile, Metal to Metal

**Ends**

Flange End , Wafer End

**Operation**

Self/Auto

"ABtork" Manufactured Pharma & Sanitary valves are designed to meet the high hygienic and zero-leakage requirements of the pharmaceutical, food, and dairy industries. "ABtork" make Pharma & Sanitary valves like **Sanitary Ball Valves (TC End)**, **Sanitary Butterfly Valves**, **Diaphragm Valves** are used for food, beverage, pharmaceutical, and other applications requiring sanitary construction and quick, clamp-style connections.



## Technical Specifications

<b>Size Range</b>	<b>Ball Valve - 15 mm to 100 mm (1/2" to 4")</b> <b>Butterfly Valve - 25mm to 300 mm (1" to 12")</b> <b>Diaphragm Valve - 15 mm to 80 mm (1/2" to 3")</b> <b>Flush Bottom Valve - 25mm to 100 mm (1" to 4")</b> <b>Sight Glass Valve - 25mm to 100 mm (1" to 8")</b>
<b>Common Applications</b>	<b>Drug Manufacturing &amp; Formulation</b> <b>Biotechnology &amp; Cosmetics</b> <b>Sterile Processing &amp; Cleanrooms</b> <b>Dairy, Beverage, Food Processing</b>
<b>End Connections</b>	<b>Triclover End / SMS Union End / Wafer Type / Flanged End</b>
<b>Pressure Rating</b>	<b>Generally PN 10 and PN 16</b>



Valve Type	Application
<b>Pharma Ball Valve</b>	: Full-port flow & Quarter-turn isolation
<b>Pharma Butterfly Valve</b>	: Large diameter flow control
<b>Pharma Diaphragm Valve</b>	: Precise flow modulation & throttling
<b>Flush Bottom Valves</b>	: Specialized reactor & tank drainage
<b>Sight Glass Valve</b>	: Visually indicating fluid flow and level within closed systems

## Features / Benefit

- **Material**: Stainless steel (SS304, SS316, SS316L) is the standard, offering excellent corrosion resistance.
- **Sealing OR Lining**: PTFE (Polytetrafluoroethylene) or Food Grade EPDM/Viton seats and seals are preferred for their chemical resistance and ability to provide a zero-leak seal, which is critical in maintaining hygiene and preventing contamination.
- **Design**: Features like a full-bore design and mirror-finished internal surfaces help prevent product holdup and bacterial growth, facilitating easier and more effective Clean-in-Place (CIP) processes.

## Materials Availability

**Body**: CF8 / CF8M / CF3M (PFA/FEP encapsulated)  
**Seal/Seat/Diaphragm**: PTFE / VITON / EPDM etc

## Operation

Manual, Gear, Pneumatic, Electric (Motorised), etc.

"ABtork" make Knife Gate Valves are precision-engineered in accordance with international industrial standards for reliable ON-OFF isolation in the most demanding environments. Specifically designed to handle thick, abrasive, and clogging media, our valves are the preferred solution for **sludge, slurry, pulp, heavy liquids, and bulk solids handling.**

## # Key Features :

**Optimized Geometry :** The sharpened bottom edge of the gate (the "knife") is specifically engineered to shear through semi-solids and viscous media, ensuring a bubble-tight seal and preventing media buildup.

**Space-Efficient Design :** The compact, lightweight architecture minimizes the installation footprint while ensuring ease of operation and simplified maintenance.

**Heavy-Duty Performance :** Built to withstand high-wear applications, reducing downtime and extending service life in extreme process conditions.

Pneumatic Operated Knife Gate Valve



## Technical Specifications

▶ <b>Size Range</b>	<b>50mm to 600mm (up to 24" Inch)</b>
▶ <b>Design/construction</b>	<b>Uni-directional / Bi-Directional</b>
▶ <b>End Connections</b>	<b>Wafer / Semi &amp; Full Lugged / Flanged End</b>
▶ <b>Flow paths/Ports</b>	<b>Full port / V Port</b>
▶ <b>Design &amp; Manufacturing standards</b>	<b>MSS SP 81 / MSS SP 148</b>
▶ <b>Flange Standard Conformity / Pressure Rating</b>	<b>PN 10 Table D / ASME B16.5 Class 150</b>
▶ <b>Pressure rating</b>	<b>Generally PN6 / PN10</b>
▶ <b>Inspection &amp; Testing</b>	<b>MSS SP 81 / API 598 / PN6 / PN10</b>

## Features / Benefit

- ▶ Metal to Metal Seated and Soft seated option available
- ▶ Gate can be offered with surface coating based on customer demand like Hard facing, Nitriding, Chrome plating etc.
- ▶ Replaceable seat design for easy maintenance at site
- ▶ Low Operating torque compares to other valves
- ▶ Deflection cone, V Orifice, Stem Extension, Stem Protection air purging port available on request

## Materials Availability

**Body :** Cast Iron / Ductile Iron / WCB (cast Steel) / CF8(SS 304) / CF8M (SS 316) etc.

**Gate / Knife :** 13 % Cr / CF8 / CF8M (Hard facing on request)

## Operation

Manual, Gear, Chain Wheel, Pneumatic, Electric (Motorised), etc.



**Wafer Type**

**Lug Type**

**Double Flange Type**

"ABtork" manufactures a wide range of Quick Shut-Off Valves, available in both Angle-Type and Straight-Pattern configurations. These valves are precision-engineered to meet stringent industry standards for mission-critical applications. Designed for high-cycle reliability, our series ensures leak-tight isolation and precise regulating duty across a variety of media, including Air, Water, Gas, and Steam. Partner with "ABtork" for flow control solutions that combine rapid response with maintenance-free longevity.



**Y Type (Flange End)**



**Y Type (Screwed End)**



**Y Type (Screwed End)  
Plastic Cap**



**Y Type (Flange End)  
Plastic Cap**

## Technical Specifications

▶ <b>Size Range</b>	<b>15 mm to 100 mm (Upto 4")</b>
▶ <b>Application</b>	<b>Quick Shut-Off</b>
▶ <b>End Connections</b>	<b>Screwed End / Flanged End / TC</b>
▶ <b>Flow paths/Ports</b>	<b>Angle Type / Straight pattern 2 Way / 3 Way</b>
▶ <b>Pressure Range</b>	<b>10 bar / 16 bar / Up to 40 Bar available on request</b>

## Features / Benefit

**Used in :** Steam, Air, Water, Chemical, Gases, Oil, Diesel, Hot Water

**Temperature range :** -10°C to 180°C

**Life :** More than ten million cycle

## Materials Availability

**Body & Plug :** CF8 (SS 304), CF8M (SS 316), CF3M (SS316L)

**Seat :** PTFE, RPTFE, GFT, CFT etc.

**Actuator Cap :** SS / Aluminium / Plastic

## Operation

Manual, Pneumatic, Electric (Motorised), etc.



**Straight Pattern Type  
(Flange End)  
Plastic Cap**

## Accessories Available On Request.

- ▶ On-Off Indicator
- ▶ Solenoid Valve in all Standard Coil Voltage
- ▶ Limit Switch
- ▶ Filter + Regulator with Pressure Gauge etc.

“ABtork” offer a comprehensive range of Solenoid valves specifically designed to meet the rigorous and varied demands of process industries. Our selection process accounts for all critical operational parameters, including the media type, pressure, and temperature

Our solenoid valves are compatible with all standard AC/DC current voltages. They provide an easy, compact, and economical solution for managing a wide spectrum of media—from normal water to high-temperature steam—requiring only an AC or DC current source to operate effectively

**Technical Specifications**



**(Screwed End -SOV)**

<b>Application</b>	<b>On-off with AC/DC Current (For Pure/Clean Medias like Air, Gases, Water, Oil, Steam etc.)</b>
<b>Pressure Rating</b>	<b>Generally PN10 &amp; PN16 (Higher pressure valve available on request)</b>
<b>Coil Enclosures</b>	<b>Weather Proof to IP67 (Water proof IP 69 Coil Available on request) Flame Proof (Explosion Proof) to Class F / Class H</b>
<b>End Connections</b>	<b>Screwed end BSP(F) or NPT(F) / Flange End to 150#</b>
<b>Size</b>	<b>15 mm to 100 mm (Up to 24")</b>



**(Flanged End -SOV)**

**Features / Benefit**

**Fast Response :** Typically switch states in less than 0.5 to 1 second.

**Temperature Ranges :** Standard models handle up to 80°C to 85°C, with specialized steam versions reaching up to 180°C.

**Voltage :** Broad compatibility with standard AC (110V, 230V) and DC (12V, 24V) currents.

**Normally Closed (NC) :** The valve remains closed without power.

**Normally Open (NO) :** The valve remains open without power.

**Materials Availability**

**Body & Bonnet :** BRASS / CF8 / CF8M,

**Diaphragm :** NBR / NITRILE / VITON / PTFE

**Operation**

Direct Acting, Internal Pilot Operated, Semi-Pilot operated



**(Direct Acting -SOV)**



**Pulse Valve (Std)**



**Tank Mounted Pulse Valve**

In chemical, pharmaceutical, and fertilizer industries, the process lines handle some of the most aggressive fluids known to engineering—including concentrated acids, strong alkalis, and high-purity solvents. **Lined Valves** are the primary solution for these environments, acting as a bridge between the mechanical strength of metal and the chemical inertness of high-performance polymers.

"ABtork" have Product portfolio of **High-Performance PFA/FEP Lined Valves** Engineered for Maximum Chemical Resistance and Zero Leakage:



**Lined Ball Valve**



**Lined Butterfly Valve**

Valve Type	Application
PFA/FEP Lined Ball Valves & Plug Valves	Full-port flow & Quarter-turn isolation
PFA/FEP Lined Butterfly Valves	Large diameter flow control
PFA/FEP Lined Globe Valves & Diaphragm Valve	Precise flow modulation & throttling

## Technical Specifications

▶ <b>Size Range</b>	<b>15 mm to 400 mm</b>
▶ <b>Design/construction</b>	<b>Single piece / Two piece</b> <b>Lining Thickness: 3mm to 5mm (minimum)</b>
▶ <b>End Connections</b>	<b>Wafer Type / Flanged End</b>
▶ <b>Design &amp; Manufacturing standards</b>	<b>Ball Valve - ASME B16.34 / API 608</b> <b>Butterfly Valve - API 609 / MSS SP-67</b>
▶ <b>Valve Face to Face Dimensions</b>	<b>ASME B16.10 / API 609 / DIN EN 558-1</b>
▶ <b>Flange Standard Conformity / Pressure Rating</b>	<b>ASME B16.5 Class 150 / PN10 Table D</b>
▶ <b>Pressure Rating</b>	<b>Generally PN10 and PN16</b>
▶ <b>Inspection &amp; Testing</b>	<b>API 598 / BS EN ISO 17292 / BSEN 12266-1</b>



### Features / Benefit

Full Bore, Reduce Bore, Cavity-Free Design (Ball & Plug Valves)  
Integrated Ball & Stem, Blow Out Proof Stem, Low Torque,  
Anti-static Device, ISO 5211 Mounting Pad, Locking Arrangement on request

### Quality Assurance Standard

"Every Valve Undergoes a 15-20 KV Spark Test On The Lining To Ensure 100% Integrity And Zero Pinholes Before It Leaves Our Facility."

### Materials Availability

**Body :** DI / WCB / CF8 / CF8M (PFA/FEP encapsulated)  
**Ball :** CF8 / CF8M / CF3M (PFA/FEP encapsulated)

### Operation

Manual, Gear, Pneumatic,  
Electric (Motorised), etc.

Fabricated multi-louver and butterfly dampers are essential components in ducting systems for controlling the flow of air, flue gas, and other low-pressure media. While both regulate flow, they differ significantly in construction and control precision.



**Fabricated Butterfly Damper Valve**

**Fabricated Multi Louver Damper**

A Butterfly Damper (often called a "Single-Blade Damper") uses a single disc rotating on a central shaft. It is a cost-effective solution for round ducts where full shut-off or coarse modulation is needed

The multi louver damper consists of multiple blades (mounted on parallel shafts) It is specifically designed for high volume airflow and precise modulation in large rectangular or round ducts

### Technical Specifications

▶ <b>Size Range</b>	<b>50mm to 3000mm (2 Inch to 120 Inch)</b>
▶ <b>Design/construction</b>	<b>Fabricated (Single Blade / Multi blades)</b>
▶ <b>End Connections</b>	<b>Wafer / Double Flanged (Other on request)</b>
▶ <b>Design &amp; Manufacturing standards</b>	<b>As per manufacturer std. or customised as per clients requirement</b>
▶ <b>Valve Face to Face Dimensions</b>	
▶ <b>Flange Standard Conformity</b>	<b>Usually EN 1092 and Various Drilling std. Tables or customised as per clients requirement</b>
▶ <b>Leakage Efficiency</b>	<b>95% to 98% (Metal-to-Metal) sealing across the duct</b>
▶ <b>Pressure rating</b>	<b>Multi-Louver -Up to 50 kPa (0.5 bar) Higher on request. Damper Butterfly Valve -Low pressure (typically PN 0.6 to PN 2.5)</b>

### Features / Benefit

High Control Accuracy : Capable of modulating flow with  $\pm 2\%$  precision & Fast Actuation  
 Low Operating Torque & Lower in weight better suitable for ducting lines  
 Cost-Effective & Less maintenance compared to traditional valves

### Materials Availability

**Body & Disc :** Mild Steel (MS / IS 2062 Carbon Steel), SS 304, SS 316

**Seals :** Seat less with C Stopper / Metal-to-Metal (standard) or Soft-Seated (Silicone, Viton, or EPDM for low-temp) on request

### Operation Manual

**Manual:** Hand lever or Gearbox with Hand wheel.

**Pneumatic:** Actuators or with Cylinders (often with positioners for 4-20mA control).

**Electric:** 230V/440V AC actuators for slow, steady modulation.

## Pneumatic Rack & Pinion Actuator options to choose from :



### Double-Acting Rack & Pinion Actuators

**Mechanism :** Air is used for both opening and closing (via two ports).

**Fail-Safe :** Stay in the last position if air fails.

**Applications :** Preferred for high-cycle, high-speed, or high-torque, heavy-duty industrial tasks.

### Single-Acting (Spring Return) Rack & Pinion Actuators

**Mechanism :** Air drives the piston, while internal springs return it, using only one air port.

**Fail-Safe :** Yes; the spring returns the actuator to a default (safe) position (fail-close/open)

### COMPACT DESIGN

- ▶ The Pratt Industrial rack & pinion Pneumatic actuator produces linear torque output in a compact design utilizing the same body and end caps for double acting and spring return units.

### NAMUR MOUNTING

- ▶ NAMUR VDI/VDE 3845 and ISO 5211 dimensions on all sizes. No special blocks are required to mount solenoid valves, limit switches or positioners.

### RUGGED TOOTH DESIGN

- ▶ The pinion teeth are engaged the full length and stroke of the piston. The pinion height allows manual override without disturbing the indicated positions.

### HIGH VISIBILITY POSITION INDICATION

- ▶ External open/close indicator as standard, available for all the rotations.

### TRACEABILITY

- ▶ All units are externally stamped with a progressive traceable serial number.

### QUALITY ASSURANCE

- ▶ 100% of all units are factory pressure and leak tested, and individually boxed for shipment.

### BEST WARRANTY IN THE INDUSTRY

- ▶ ABtork Pneumatic Actuators are covered by the best warranty in the industry. Contact your representative for more details.

## Electric/Motorised Actuator options to choose from :



### Quarter-Turn

- ▶ These rotate the valve stem 90 degrees (one quarter of a full circle). They are built for **speed**, often completing operations in seconds, and are ideal for quick on/off control. These actuators are compatible with **Ball, Butterfly, and Plug Valves**. These valves use a rotating disc or ball to control flow

### Multi-Turn

- ▶ These rotate the valve stem multiple times, often exceeding 360 degrees. They typically convert rotary motor motion into linear motion via a threaded stem to open or close the valve gradually. These are required for **Gate, Globe, and Knife Gate Valves**. These valves typically have rising stems that must be turned several times to move the obstructer.

### FEATURES :

**Single-Phase AC :** 24V DC or single-phase AC (110V/220V)

**Three-Phase AC :** 415V, 50 Hz

**Manual Override (Hand wheel)**

**Status Indication :** LED lights or LCD screens

Streamline your procurement with our integrated supply chain. We leverage our technical expertise to source and supply a wide range of process industry items, ensuring compatibility, quality control, and a single point of accountability for your entire project.



**Pneumatic Cylinders**



**Gear Boxes**



**Limit Switches**



**Regulators & AFR**



**Namur-Non Namur Solenoid valves**



**Positioners**



**Flow Control / Pressure Reducing Valves**



**Diaphragm Valves**



**Safety Valve**



**Strainers (Angel/Basket/Pot Type)**



**Tubing-Fittings and accessories**

**Note:**

We reserve the right to modify product designs, technical data, and pricing at any time without prior notice. To ensure the perfect fit for your application, we recommend consulting our technical team during the selection process. Please contact us to request comprehensive data sheets, technical drawings, and full product specifications



Hybrid solution for uninterrupted flow control...

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**Contact Us:**

**ABtork Valves, Ahmedabad, Gujarat**