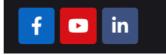


Product Catalog







About us

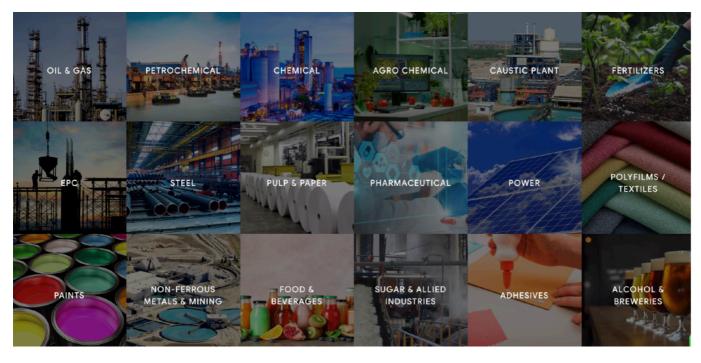


UCPL ("Uniflow")'s vision is to become one of the leaders in Control Valves segment by developing sustainable, innovative & world-class products thus always striving towards bringing in customer delight every time.



Uniflow Controls Pvt. Ltd. is committed to support its customers by providing superior products and services of exceptional value which help them gain competitive advantage in their markets.

Our Presence





2 Way Globe Control Valve



Key Features

- Precision Control & Tight Shut-off
- High flow capacity and rangeability
- Smart Investment castings up to 4"
- Top opening for easy trim inspection without disturbing insulation
- Range of supplementary noise control
- End connection to suit any pipe work.
- Wide selection of actuators
- Rigorously proven on-site performance
- Top an cage guided micro-flow trims
- Sturdy yoke design with Cast Steel (Investment Casting)

Benefits

- Provides easy access for on-line inspection, maintenance.
- Zero gland leakage

SERIES 2200

SIZE ¹⁄₂" (15 mm) to 20"(500 mm)

STANDARDS

ASME B16.34 & ANSI/FCI-70-2

RATING ANSI 150# to 2500# & equivalent

- Boiler feed water, Low pressure, and High-pressure steam
- High pressure, high temperature & high pressure drop applications
- Suitable for Services like Oxygen, Chlorine, Thermic Fluid and Sea water
- Highly preferred for sectors like Energy, Chemicals, Petrochemicals, Fertilisers, Paper, Sugar, Nuclear etc





PFA Lined Globe Control Valve



Key Features

- Emission free One piece valve body Standard PTFE Bellows & Heavy-Duty Bellows for an enhanced resistance to permeation Exchangeable PTFE Seat & PTFE plug, Easy top entry maintenance Superior long-term performance Maximum corrosion resistance in pure chemical Test connection for monitoring of the bellow primary seal & detecting leakage Wide range of lining material (PTFE, Antistatic PFA, FEP, PVDF) Wide range trim selection like PTFE, CFT, GFT, Modified PTFE
- All lined parts tested @ 15-20 kVA for spark testing

Benefits

- Zero leakage from gland packing; guarantees reliable & excellent protection against leaks or fugitive emission
- Use of expensive alloys is not necessary hence design becomes economical
- Stem sealed by PTFE bellow with an additional safety packing as secondary seal.

Lining thickness is maintained minimum 3.5mm to 4mm for long lasting life of valve

SERIES 2201

SIZE

¹⁄₂" (15 mm) to 6"

(150 mm)

STANDARDS

ASME B16.34 & ANSI/FCI-70-2

RATING

ANSI 150# & equivalent

- Corrosive chemical use, including most hazardous and toxic Fluids
- Ultimate performance handling Chlorine (Wet & Dry) and Bromine Hydrochloric, Sulphuric, Nitric and Hydrofluoric acids
- Industrial reagents, Alkaline and strong basic fluids and most organics





Total PTFE Metal Housed Globe Control Valve



Key Features

- Unibody (Single piece) PTFE construction minimises potential leak paths
- Isostatically compacted, high density PTFE body
- Inherent flow characteristics
- All wetted parts are machined from isostatically virgin PTFE
- Greater resistance to permeation & absorption under chemical attack
- Available with Micro trim for low flow applications
- Greater Safety under vacuum
- Greater safety in environmental protection when handling hazardous chemicals
- Double & Triple gland packing available optionally
- Low emission gland packing available optionally

Benefits

 Available with Micro trim for low flow applications

APPLICATIONS

Highly corrosive fluids

Vacuum service

Most organics

• Available with 300# ANSI pressure rating design to 4mm for long lasting life of valve

SERIES 2202

SIZE

1⁄2" (15 mm) to 6"

(150 mm)

STANDARDS

ASME B16.34 & ANSI/FCI-70-2

RATING ANSI 150# to 300# & equivalent

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Bellow Sealed Globe Control Valve



Key Features

Emission free

- Robust & compact design, high thrust
 One Piece, Non-rotating stem polished to ensure packing integrity & smooth operation
 Bellows fully housed in an extended bonnet for protection against erosion
- Great operational stability & low maintenance Fully entrapped body-bonnet gasket ensures joint integrity

Helium leak tested Bellows are provided.

Benefits

- Zero leakage from gland packing; guarantees reliable & excellent protection against leaks or fugitive emission
- Bellows are of stainless steel, Monel, Hastelloy C & Inconel to withstand high temperature, pressure & highly corrosive applications
- Bellows are available with 2 ply / 3 ply / 4 ply

SERIES

SIZE

½″ (15 mm) to 12″(300

mm)

STANDARDS

ASME B16.34, ANSI/FCI-70-2 & ISO15848-1&2

RATING ANSI 150# to 600#

- Suitable for Ammonia, Chlorine, Hydrogen, Sulphur and various acids.
- meant for hazardous and corrosive applications
- for Hot oils like Dowtherm, Therminol, Santotherm.



SUNIFICU TRUST OF PERFORMANCE SERIES-2203-M

Manual Bellow Sealed Globe Valve



Key Features

- Provides a barrier between the stem at its point of entry through the pressure boundary and the process fluid within the valve, to eliminate stem leakage.
- An anti-rotation device is provided in the bonnet to ensure bellow does not get twisted during assembly and disassembly or by vibration. Backed up with a standard stem packing set and a leakage monitoring port between the bellows and the packing to prevent catastrophic release of hazardous fluid in the event of a bellows leak. Act as an energy saver

Reduced operating and maintenance cost. It minimizes any loss of medium fluid .

Benefits

- Zero leakage from gland packing; guarantees reliable & excellent protection against leaks or fugitive emission
- Bellows are of stainless steel, Monel, Hastelloy C & Inconel to withstand high temperature, pressure & highly corrosive applications

Bellows are available with 2 ply / 3 ply / 4 plyHastelloy C & Inconel to withstand high temperature, pressure & highly corrosive applications

SERIES 2203-M

SIZE

¹/₂" (15 mm) to 6"(150

mm)

STANDARDS

ASME B16.34, ANSI/FCI-70-2 & ISO15848-1&2

RATING ANSI 150# to 600# & equivalent

APPLICATIONS

- Suitable for Nuclear & Thermal Power Industry: Helium, Vacuum, Heavy Water, High Pressure Steam, High Temperature Application
- Chemical & Petrochemical Industry: Ammonia, Chlorine, Hydrogen, Phosgene, Benzene, Cryogenics
- Food & Pharmaceutical Industry: Vegetable Oils, Cyanide Compounds, Argon, Steam,

Hydrocarbon, Fatty Acids





Cryogenic Globe Control Valve & Manual Valves



Key Features

- Cryogenic Spring-Loaded Seal Ring
- Stable Control
- Cost Effective Operation
- Economical & Easy Maintenance
- Cryogenic Design Features
- Fugitive Emission Protection
- Designed to eliminate leakages, maximize lifetime
- operation & reduce maintenance & spares cost
- Extended stem globe valve has a bolted bonnet, integral replaceable seat
- PTFE, CFT seal to always ensure tight shut-off
 Anti-blowout stem & one-piece high strength design for operator safety
- Control Valve with exception of the extension bonnet to keep cryogenic liquid out of the packing area

Benefits

- Allows easy maintenance, even in confined spaces
- Bellows seal option available to prevent heat conduction in the valve space and the valve stem from freezing up. Backup packing
- Lightweight ergonomic long diameter handwheel for ease in operation
- All valves are degreased for oxygen duty

APPLICATIONS

- Cryogenic Valves are specially designed for Cryogenic service. The construction is same as standard Globe Valve.
- Control Valve with exception of the extension bonnet to keep the cryogenic liquid out of the packing area
- Allowing building of gas in the warmer bonnet area.
- These cryogenic valves are designed to provide precise control of liquids and gases at cryogenic temperature of -198°C (-325°F).

SERIES 2205 / 2205M SIZE

1⁄2" (15 mm) to 8"(200

mm)

STANDARDS

ASME B16.34

RATING ANSI 150# to 600#





Y type Flush Bottom Valve





Key Features

- Crust Breaking
- Dead space free
- Sealing in atmosphere
- Contamination free
- Easily Flushable
- Robust design & construction

Benefits

Available with partial or full jacketing
Available with Bellows design
Available with PFA Lining for corrosive fluids

SERIES 2206

SIZE

1" x ¾", 1½"x1", 2" x 1½", 2½" x 2", 3"x2", 4"x3", 6"x4" , 8" x 6" mm)

STANDARDS

ASME B16.34 , Discharge Connection at 45°/ 60°, **Design**: Inside tank open, inside valve

RATING

ANSI 150#, 300#, 600#

APPLICATIONS

For tank and vessel draining or discharge.
 Pharmaceutical & Fine Chemical Industry







Bellow Sealed Globe Control Valve & Manual Valves *ECD



*Euro Chlor Design Only..Not approved yet

Key Features

Emission free

- Robust & compact design, high thrust Valve meets requirements of Euro Chlor / Chlorine Institute Pamphlet 6 standard Bellows fully housed in an extended bonnet for protection against erosion Added safety sealing to atmosphere by means of additional stuffing box
- Great operational stability & low maintenance Fully entrapped body-bonnet gasket ensures joint integrity.

Benefits

- Zero leakage from gland packing; guarantees reliable & excellent protection against leaks or fugitive emission.
- Stem Sealed by multi-wall, hydroformed bellows guaranteed for 50000 Nos. life cycles.
- Recommended for applications where bellows must be flushed by flow in case of risk of polymerization, crystallization, etc.

SERIES 2208 / 2208 M

SIZE 1/2" (15 mm) to 8"(200 mm)

STANDARDS ASMF B16.34

RATING ANSI 150# to 600#

- Suitable for Dry Chlorine (Cl2), Anhydrous hydrogen chloride (HCl), Ethylene Dichloride (EDC)
- Suitable for Isocyanites (MDI, TDI, HDI), Ammonia (NH3), Hydrogen Sulfides (H2S)Benzene (C6H6)
- Suitable for Heat-transfer fluids (Hot oils, molten sodium).





Diaphragm Valve (Weir)



Key Features

- It is a full bore straight through, give high flow performance with minimum
- turbulence
- Giving 100% leak tight closure
- Self-cleaning with no pockets, recesses, corners, grooves or sharp edges in the direction of flow.
- Can handle sticky and viscous fluids, slurries and highly corrosive and hazardous substances
- Perfect sealing and longer diaphragm life due to weir design

Benefits

Zero leakage
Contamination free
Corrosive resistance
Easy maintenancerisk of polymerization,

SERIES 2209

SIZE

1⁄2″ (15 mm) to 10″(250

mm)

STANDARDS

ASME B16.34

RATING ANSI 150# & equivalent

- Recommended for handling sticky and viscous fluids, slurries, and highly corrosive and hazardous substances and other hard to handle mediums or where tight closure is prime factor
- Suitable for fluids that require high purity and should remain free from contamination.





Pressure Regulating Valve



Key Features

- Glandless construction
- Wide range of Flow
- Easy for maintenance
- Self-actuating does not require any auxiliary supply
- Tight Sensitively & stability of controlled pressure
- Downstream as well as upstream applications

Benefits

- Wide range of body sizes and trim sizes available to satisfy varied flow requirements
- Tight sensitively and stability of controlled pressure
- Provides excellent tight shut off capability over long working life
- Compact design with minimum number of moving parts

SERIES 2210

SIZE

¹/₂" (15 mm) to 6"(150

mm)

STANDARDS

ASME B16.34

RATING ANSI 150# to 300# & equivalent

- Process services like Nitrogen, Hydrogen, Oxygen,
- Ammonia, HCL, LPG, Natural gas, Biogas
- Utility services like Water & Air
- Fertilizers, Chemical and Pharmaceutical Industries





Miniature (Pilot) Control Valve



Key Features

- Glandless construction
- Wide range of inter changeable trims
- Threaded Bonnet for quick assembly
- Bar stock bodies in exotic material
- Cooling finned bonnet available for higher temp.
- Extended Bonnet available for Cryogenic application

Benefits

- Wide range of body sizes and trim sizes available to satisfy varied flow
- requirements
- Tight sensitively and stability of controlled pressure
- Compact Size

SERIES 2212

SIZE

¼″ (6 mm), ½″ (15 mm) & ¾″ (20 mm)

STANDARDS

ASME B16.34

RATING ANSI 150# to 300# & equivalent

APPLICATIONS

- Widely used for research and process pilot plant on liquids, gases or steam to control fractional flows in smaller pipes.
- Its compact size makes it an ideal choice for additional injection, sampling or low flow Hydraulic system.
- Suitable for corrosive

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3-Way Globe Control Valve



Key Features

- Mixing / Diverting application
- High flow capacity
- High rangeability
- Bellows are available optionally of stainless steel, Monel, Hastelloy C & Inconel to withstand high temperature, pressure & highly corrosive applications

Benefits

Efficient and precise controlOptimizes flow conditions with large volumes

SERIES 3300

SIZE

¹⁄₂" (15 mm) to 12"(300

mm)

STANDARDS

ASME B16.34, ANSI/FCI-70-2

RATING ANSI 150# to 600#

- Textile industries application
- Thermic fluids (Dowtherm, Therminol, Santotherm)
- Pharmaceutical



SERIES-6000 & 6002

Segmented V-Port Ball Valves (Soft seated & Metal seated)



A Shearing effect between the ball and seal ensures tight shut-off, even on fibrous slurries. The unrestricted, straight - through flow design provides high capacity and wide Rangeability. Precise contouring of the V-notch balls provides a nearly equal percentage characteristic.

Option for Soft Seating & Metal Seating available Ball machined to a super smooth finish, hard chrome plated and polished to increase ball seal life.

Unibody design protect from effect of piping stress

Hard chrome facing on the segment and seat to reduce wear with High CV to body size ratio All testing is performed to the requirements of ASME B 16.34

Benefits

Capacity to handle fluids containing suspended particles

Handle fluids with solid particles causing erosionProvides accurate, reliable control in a broadrange of application

Achieves class IV shut-off with metal seal & class VI with soft seal

SERIES 6000/6002

SIZE

1" (25 mm) to 10"(250

mm)

STANDARDS

ASME B16.34, ANSI/FCI-70-2

RATING

ANSI 150# to 300# & Equivalent

- Fibrous pulp and Viscous fluids
- Basis weight application
- Sugar syrups, powders, paper plant liquors
- Digester System





PFA LINED V-NOTCH BALL VALVE



Key Features

- A Shearing effect between the ball and seal ensures tight shut-off, even on fibrous slurries. The unrestricted, straight - through flow design provides high capacity and wide Rangeability. Precise contouring of the V-notch balls provides a nearly equal percentage characteristic.
- Option for Soft Seating & Metal Seating available Ball machined to a super smooth finish, hard chrome plated and polished to increase ball seal life.
- Unibody design protect from effect of piping stress
- Hard chrome facing on the segment and seat to reduce wear with High CV to body size ratio All testing is performed to the requirements of ASME B 16.34

Benefits

- Capacity to handle fluids containing suspended particles
- Handle fluids with solid particles causing erosion
 Provides accurate, reliable control in a broad range of application
- Achieves class IV shut-off with metal seal & class VI with soft seal

SERIES 6001

SIZE

1" (25 mm) to 6"(150

mm)

STANDARDS

ASME B16.34, ANSI/FCI-70-2

RATING

ANSI 150# & Equivalent

- Fibrous pulp and Viscous fluids
- Basis weight application
- Sugar syrups, powders, paper plant liquors
- Digester System





O BALL VALVE





Key Features

High flow capacity with two piece or three-piece design
PTFE lined ball valves for corrosive fluids
Trunnion mounted design on request
Full bore and reduced bore design
Actuator mounting as per ISO 5211
Full circular passage
Prolonged operation even under high pressure
Locking Device (Open / Close)
Blow-out proof stem
Anti-Static Device

Benefits

Fire safe designLow Fugitive Emission

SERIES 6200

SIZE

1" (25 mm) to 6"(300

mm)

STANDARDS

ASME B16.34, ANSI/FCI-70-2

RATING ANSI 150# to 600# & Equivalent

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- Shut-off applications
- Preferred valve for pharmaceutical industries
- Low pressure steam & Hydrocarbon applications





PFA LINED BALL VALVE





Key Features

- Offers both reduced port & full port design Has floating ball design for reduced port and ball & stem integral design for full port ball valves Offers chevron packings (sintered packings) for both reduced port & full port valves & valves are subjected to helium leak test in case if the same is required Lining is anchored with dove tail groove and makes its valve suitable for both pressure & vacuum applications. Offers all metal components in investment casting, ensuring intact & homogeneous lining & having an overall even thickness of lining of intricate contours Valves are all with ISO mounting pad design, enables mounting if actuators very easy Lining of all valves by latest injection molding process
- and not by transfer molding process makes its lining more compact & reliable
- Provides all lining materials for corrosive applications such as PFA, ETFE, PVDF

Benefits

Standard body casting material is ASTM A 216 GR. WCB & upon requirement can also provide ASTM A 351 GR. CF8M.

SERIES 6201

SIZE

¹⁄₂" (15 mm) to 6"(150 mm)

STANDARDS ASME B16.34, ANSI/FCI-70-2

RATING

ANSI 150# & Equivalent

- Textile industries application
- Shut-off applications
- Preferred valve for pharmaceutical industries





SERIES-8000 & 8005

Double Offset & Sleeved Butterfly Valve



Key Features

- Compact and simple design.
- Low cost and maintenance free.
- Very high CV to body size ratio.
- Low operating Torque.
- Reliable smooth operation and flow control with
- assured product quality.
- Bubble tight shut off, API 598.
- Rangeability of 33:1 in the control range.
- Flow characteristic throttling for modulating duty.
- Replaceable elastomeric liner.
- Single piece Body.

Benefits

- Offset design eliminates the seating wear due to coming action of the disc during closing. The mechanical Stopper provided ensures precise valve closing.
- Has excellent Throttling characteristics with good low flow control capacity which offers an inherently higher rangeability.
- Low cost, light weight and space saving in combination with good flow characteristics
- PTFE Seat replacement without valve disassembly Long life, easy field replacement seat

SERIES 8000/8005

SIZE

2" (15 mm) to 36"(900

mm)

STANDARDS

ASME B16.34, ANSI/FCI-70-2

RATING

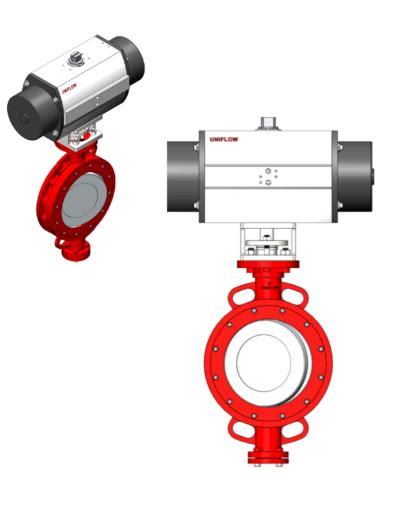
ANSI 150# & Equivalent

- Shut-off applications
- Preferred valve for pharmaceutical industries
- Low pressure steam & Hydrocarbon applications
- Steel, Sugar and Textile industries





Triple Offset Butterfly Valve



Key Features

Compact and simple design. Valves are meant for bubble tight shut-off Ideal for high temperatures Low cost and maintenance free. Very high CV to body size ratio. Low operating Torque. Reliable smooth operation and flow control with assured product quality. Bubble tight shut off, API 598. Rangeability of 33:1 in the control range. Flow characteristic throttling for modulating duty. Replaceable elastomeric liner. Single piece Body.

Benefits

Triple Offset design eliminates few shortcomings in double offset. Low operating torque Overlayed hardened metal Cost effective & SIL3 compliant Leak proof and frictionless closure Long service type

SERIES 8003

SIZE

2" (15 mm) to 36"(900

mm)

STANDARDS

ASME B16.34, ANSI/FCI-70-2

RATING

ANSI 150# & Equivalent

- Energy power plants
- Petroleum refineries
- Highly reactive chemicals plants
- Water treatment plants





PFA LINED BUTTERFLY VALVE



Key Features

Compact Design, Easy to install and dismantle. Soft sealing and Gas tight with Lined and Metallic Disc. Anti-adhesive wetted surface. Two-piece Body Lining Thickness ranging from 3 to 4 mm. High permeation resistance Vacuum Proof Maintenance free. Low Operating Torque. Circular moulded elastomer provides uniform contact pressure over the entire seat. Electrostatic Testing of Lined Components

Benefits

Non sticky properties of the liner ensure high performance of the valve under highly corrosive chemicals in conjunction with high pressure and temperature Avoids porosity problems Corrosion resistance The fully Circular elastomer and disc ensures bubble tight closing of the valve Eliminate maintenance cost

SERIES 8001

SIZE

2" (50 mm) to 24"(600

mm)

STANDARDS

ASME B16.34, ANSI/FCI-70-2

RATING

ANSI 150# & Equivalent

- Highly corrosive liquids, gases & Slurries
- Most organics
- Used for shut-off, throttling and control of corrosive,
- hazardous pure Liquids,
 Gases and Vapors





SLEEVED PLUG VALVE



Key Features

No lubrication, no seizing of plug PTFE-sleeve fully retained at top, bottom and around ports No maintenance cost Minimized body cavities for residuals or contamination Complete shut off

Benefits

Provide tight shut-off for liquids, gases, or slurries, plus corrosion resistance with the absence of product contamination. The low friction PTFE sleeve surrounding the plug permits quick and easy operation. Costly lubrication and maintenance are eliminated.

SERIES 9000

SIZE

¹⁄₂" (15 mm) to 6"(150 mm)

STANDARDS ASME B16.34, ANSI/FCI-70-2

RATING ANSI 150# & Equivalent

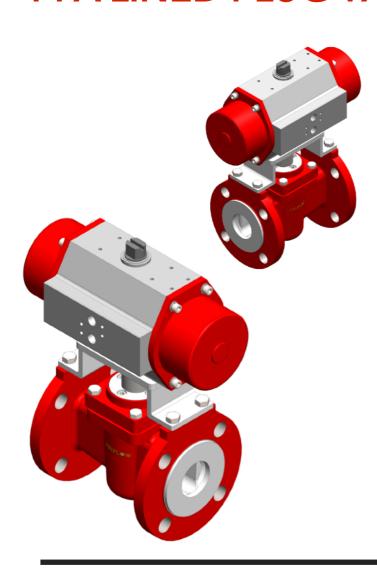
APPLICATIONS

 Suitable for chemicals and highly aggressive process media applications





SERIES-9001 PFA LINED PLUG VALVE



Key Features

- Cost-effective alternative to high-alloy body materials
- Reliable performance in extreme service conditions such as severe cycling,
- vacuum applications, and elevated temperatures ensured by T-slots and anchor holes that provide strong attachment of lining to body and plug Efficient, high-flow capacity due to large ports, which reduce friction losses and pressure drop High availability and easy maintenance with inline adjustment no disassembly is required to restore seating
- provide maximum corrosion resistance and the elimination of product contamination at reasonable costs.

Benefits

- Easy Maintenance
- Corrosion resistance
- The large sealing surfaces of this valve insure
- drop-tight shut-off
- Suitable for extreme service and vacuum
- conditions

SERIES 9001

SIZE

1/2" (15 mm) to 12"(300

mm)

STANDARDS

ASME B16.34, ANSI/FCI-70-2

RATING

ANSI 150# to 600#

APPLICATIONS

- Suitable for Clean Liquids and Gases
- Suitable for Corrosive & hazardous Liquids and Gases
- Suitable for Viscous Liquids
- Suitable for Fibrous Slurries & Dry Materials
- Suitable for Food/Pharmaceutical
- Vacuum Service

applications







