



HybridOX
Automation LLP.
Inspired By Innovation



+91 70215 57109
+91 88500 39676

**MANUFACTURER & SUPPLIER OF
VALVE AUTOMATION
PRODUCTS AND
ACCESSORIES**

Product Catalogue

**“INSPIRED BY
INNOVATION”**

**MANUFACTURER, SUPPLIER & EXPORTER OF
PREMIUM QUALITY INDUSTRIAL CONTROL VALVES**

HybridOX Automation LLP. (Previously HybridOX Automation UK Ltd.), focusing on innovation and industry compliance, our solutions are designed to enhance operational reliability while maximizing return on investment. Whether it's pressure control, flow management, or system automation, we ensure seamless integration into your processes.



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ABOUT US

At HybridOX Automation LLP. (Previously HybridOX Automation UK Ltd.), we take pride in engineering high-performance control valves that blend safety, precision, and durability. With a deep-rooted commitment to technological innovation and engineering excellence, we deliver cutting-edge solutions that meet the most stringent IBR and Non-IBR industry standards.

Our products are designed to enhance operational efficiency, reduce downtime, and ensure long-term reliability. Whether you need precision flow control for oil & gas, power plants, chemical processing, or manufacturing, HybridOX Automation LLP. provides tailor-made solutions that exceed expectations.



OUR VISION

To be a global leader in industrial flow control solutions, pioneering innovative technologies that set new industry standards for performance, sustainability & efficiency.

OUR MISSION

To deliver high-quality, precision-engineered control valves and accessories that enhance efficiency, reliability, and safety across industries while ensuring maximum return on investment for our customers.



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OUR RANGE OF PRODUCTS

TWO-WAY GLOBE CONTROL VALVE

TECHNICAL SPECIFICATION

DESIGN: ASME B16.34 VALVE

SIZE: 15 to 450 mm (1/2" to 18")

RATING: 150 to 2500 ANSI

END CONNECTION: Flanged, screwed, Buttweld, Socket weld.

MATERIAL: Carbon Steel, Stainless Steel, Monel, Duplex, Alloy 20, Hastelloy B/C, Aluminium Bronze, PFA Lined, etc.

TRIM FORMS: Top guided Contoured, Splined Micro flow V- Ported (Balanced / Unbalanced)
Low Noise (Upto four Stage Pressure Reduction Balanced / Unbalanced)

TRIM MATERIAL: Stainless Steel, Alloy20, Monel, Duplex Hastelloy B/C, Stellite.

FLOW CHART: Equal, Linear & Quick opening

SEAT LEAKAGE: Class III, IV, V, & VI (FCI-70.2)

STANDARD LEAKAGE RATES

Metal to Metal Seating Class IV-less than 0.01% of rated Cv

Metal to Soft Seating Class VI-Bubble tight (Zero Leakage)

GLAND PACKING: Grafoil or PTFE Chevron

ACTUATOR: Diaphragm, Piston or Electrical

ACTUATOR ACTION: Direct / Reverse Acting

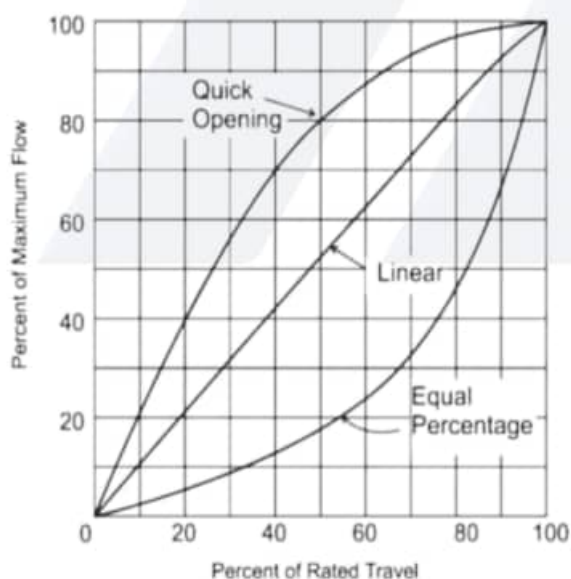


KEY FEATURES AND BENEFITS

- Heavy Duty Top Guided
- High Flow Capacity
- Large Variety of trim Design
- Tight Shut-off & soft seated option
- Easy Maintenance

AREAS OF APPLICATION

All Industry Segments, Power, Nuclear, Oil & Gas, Refining, Fertilizer, Chemical, Pharmaceuticals, Aerospace, etc.



PNEUMATIC BALL VALVE

TECHNICAL SPECIFICATIONS

DESIGN STANDARD: BS EN ISO 17292 (BS 5351).

SIZE: 15mm to 300mm.

PRESSURE RATING: 150#, 300# (Other Pressure Rating are available on Request)

BODY MATERIALS: CI, WCB, CF8, CF8M, CF3M, Hastelloy C/B
(Other Material Grade are available on request)

SEAT: PTFE, Reinforced PTFE, PEEK & Metal seated

TYPE: Ball Type ON-OFF

ACTUATOR: Rack & Pinion, Scotch yoke both in Single Acting & Double Acting, Electric Motorized.

ACCESSORIES: Valve Positioner (Pneumatis Electro Pneumatic, and Smart Positioner), Air set, Solenoid Valve, Air Lock, Limit Switches.

SPECIAL FEATURES: Suitable for High Pressure & High Temperature Service/ Low Torque.

END CONNECTION: Flanged end ANSI B 16.5, 150#, 300#, (RF, RTJ &TG),
(Other Class are available on Request).



KEY FEATURES AND BENEFITS

Resistance to Corrosion.

Fine Finish and Compact Design with Declutchable Handwheel.

Easily Replaceable PTFE seats and Packing.

Prolonged successful operation even under High Pressures.

APPLICATION

Air, Gas, Water, Chemicals, Pharma, Oil, Acid, Foods, Vacuum, Heat Treatment, Paper and Sugar Industries.

PNEUMATIC BUTTERFLY VALVE



TECHNICAL SPECIFICATIONS

DESIGN: Wafer type

VALVE SIZE: 50 to 600 mm (2" to 24")

BODY TYPE: Metal to Metal / Double Offset /Triple Offset /Sleeve Design

SEAT LEAKAGE: II to VI (FCI-70.2)

BODY: Cast Iron, Carbon Steel, Stainless Steel, etc.

VANE / DISC: Stainless Steel, (Other on Request)

BODY SLEEVE: Nitrile, EPDM, (Other on Request)

ACTUATOR: Diaphragm, Rotary or Electrical

GLAND PACKING: PTFE V Ring upto 180°C, Grafoil upto 400°C.

KEY FEATURES AND BENEFITS

Heavy Duty Top Guided, Large Variety of Trim Design, Tight Shut-off & Soft Seated Option, Easy Maintenance.

AREAS OF APPLICATIONS

All Industry Segments, Power, Nuclear, Oil & Gas, Refining, Fertilizer, Chemical, Pharmaceuticals, Aerospace, etc.



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THREE-WAY CONTROL GLOBE VALVE

TECHNICAL SPECIFICATIONS

DESIGN: ASME B16.34

BODY FORM: Globe Type with Tail piece to provide third port

VALVE SIZE: 15 to 300 mm (1/2" to 12")

RATING: 150 to 1500 ANSI

TRIM FORM: Linear, V-Port Skirt Guided

FLOW CHART: Linear, On/Off

SEAT LEAKAGE: V, V & VI (FCI-70.2)

ACTUATOR: Diaphragm, Piston or Electrical

ACTUATOR ACTION: Direct / Reverse Acting

KEY FEATURES AND BENEFITS

Heavy Duty Top Guided / High Flow Capacity / Easy Maintenance

Large Variety of Trim Design / Tight Shut-off & Soft Seated Option

AREAS OF APPLICATIONS

All Industry Segments, Power, Nuclear, Oil & Gas,
Refining, Fertilizer, Chemical, Pharmaceuticals, Aerospace etc.



PNEUMATIC FLUSH BOTTOM VALVE

TECHNICAL SPECIFICATIONS

DESIGN: Plug Type

VALVE SIZE: 1/2" to 14" (15MM - 350MM)

PRESSURE RATING: 150# to 300# other standards are available on request.

MATERIAL: Fabricated in Carbon Steel, SS 304, SS 316, SS 304L, SS 316L.

DESIGN TEMPERATURE: -20°C to 280°C.

KEY FEATURES AND BENEFITS

Customized designs as per customer requirement

High flow capacity and Zero material clogging

Heavy Duty Construction for longer life

Temperature sensor attachment in plug

AREAS OF APPLICATIONS

Petrochemical industry

Pharmaceutical

Chemicals

Process Industry

and more.



ANGLE CONTROL VALVE

TECHNICAL SPECIFICATIONS

SIZE: 15mm to 80mm

BODY MATERIAL: CF8, CF8M, CF3M (Others are available on request)

TRIM / SPINDLE: Stainless Steel SS304, SS316, SS316L

END CONNECTION: Female Screwed to BSP or NPT Ends, Flanged ends, Triclover.

LEAKAGE: Drop Tight/Bubble Tight, Class IV ANSI B16.104 - 1976

ACTUATOR

BODY: SS 304 Pressed

COVER FLANGE: ASTM A351 Gr. CF8 (SS304) Investment Die-Cast

SPRING: Spring Steel (IS 4454 Gr. III)

PORT CONNECTION: 1/4" BSP (NPT on request)

OPERATING PRESSURE: 3.5 to 7 Bar(g)

OPERATING CYCLES: 350 to 650 Cycles / Hr.



DESUPERHEATER

TECHNICAL SPECIFICATIONS

Steam Line Size: 25 mm to 400 mm NB

Connection Size: Steam Side Mounting Flange - 80 NB

Water Side Flange: 25 mm, 40 mm NB

Pressure Rating: 150# to 2500#

Body MOC: Carbon Steel / Alloy Steel / Stainless Steel

Nozzle MOC: SS 316 (Stellited optional)

Actuator: Pneumatic / Electrical

Rangeability: 40: 1

End Connections: Flanged



APPLICATIONS

Mechanical atomizing type Desuperheaters are generally used to lowering the temperature of superheated steam to the required set point by injecting atomized water in to the superheated steam flow with Spray Nozzle.

PRESSURE REGULATING VALVE

TECHNICAL SPECIFICATIONS

Valve Size: 1/2" to 2" (15MM - 50MM)

Pressure Rating: 150# to 300# other standards are available on request.

Material: ASTM A216 Gr WCB, A351 CF8 (Ss304), A351 CF8M (SS316)

End Connection: Flanged and Screwed.

KEY FEATURES AND BENEFITS

Safe operation at high pressure, Accurate outlet pressure, Tight Shut-off, and zero leakage, Customised Design as per customer's requirement, Easy for maintenance.



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PRESSURE RELIEF VALVE (SAFETY VALVE)



TECHNICAL SPECIFICATIONS

Valve Size: 1" to 4" (25MM - 100 MM)

Pressure Rating: 150# and 300#

End Connection: Flanged and Screwed and TC End

Material: ASTM A216 Gr WCB, A351 CF8 (SS304), A351 CF8M (SS316)

KEY FEATURES AND APPLICATIONS

Features: Ideal For High Pressure and High Temperature Services, Valve size can Standardized according to set pressure, High efficiency and better performance.

Applications: Vapour, Gas and liquid for over pressure protection.

VALVE AUTOMATION ACCESSORIES



Pneumatic Actuator



Limit Switch



Positioner



Air Filter Regulator



Solenoid Valve



Gear Box

PRESSURE REDUCING AND DESUPERHEATING STATION (PRDS)

We also design and manufacture PRDS stations tailored to the specific requirements of our customers.

SIZE: 1" to 12" (25mm to 300mm)

CLASS: 150# to 600#





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MANUFACTURER, SUPPLIER & EXPORTER OF PREMIUM QUALITY INDUSTRIAL CONTROL VALVES

CHANNEL PARTNERS


We collaborate with trusted distributors, resellers, and technology partners to expand our reach and provide seamless support to our customers. If you're interested in partnering with us, get in touch to explore opportunities for mutual growth.


INDIA: Chennai, Kerala, Punjab, Rajasthan, Delhi


Global Partners: Singapore, Hong Kong, UK, Dubai


LET'S CONNECT

 +91 70215 57109
(Call, WhatsApp, SMS)

 +91 88500 39676
(Call, WhatsApp, SMS)

 sales@hybridox.in
hybridoxautomation@gmail.com

 **OFFICE:** 53, Shree Manoshi Complex, Plot No. 5 & 6,
Sector 3, Opp. Ghansoli Railway Station, Ghansoli (E),
Navi Mumbai, (MH) 400701.

 **FACTORY:** Unit No. 9, Scientific Complex,
Near Shilphata, Thakurpada, Shilphata,
Navi Mumbai, Thane, (MH) 421204

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