

**Your trusted supplier of valves and process equipment since 1971**

*Transforming infrastructure for a healthy, thriving planet*



## PRODUCT CATALOG

**ISO9001 CERTIFIED**  
**Celebrating 27 years of ISO**

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**in Connect with us**



## A.R.I. Flow Control Accessories Ltd. Air Release Valve



- 1" to 8"
- High air discharge air release valve
- Patented conical body design
- Threaded and flanged ends
- Combination air/vacuum
- Kinetic/automatic air release

## AUMA Riester GmbH & Co. KG Electric Actuator and Valve Gearbox



- Multi-turn, quarter-turn actuators and gearboxes
- Lever and linear actuators
- Up to 265,000 ft-lbs

## Boehmer GmbH District Energy Ball Valve



- Sizes 1" to 48"
- Fully rated to PN25/ASME 150 Class
- Fully welded, forged body design
- Full penetration welds
- Spiral multi spring-assisted seat rings
- Trunnion-mounted starting at 6"
- Hot and chilled water
- Above ground and buried service
- Butt weld or flanged ends available upon request

## Boehmer GmbH Fully Welded Ball Valve



- 2" to 56"
- ASME Class 150 TO 2500
- Pipeline ball valve, double isolation and bleed
- Forged body, fully welded design
- Double or single piston, double block and bleed
- Emergency sealant injection
- PMSS sealing system
- Natural gas and hydrogen service
- Above ground and buried service (stem extension) for oil and gas
- [Certified hydrogen ready \(up to 100%\)](#)

## Boehmer GmbH Pre-Insulated District Energy Ball Valves



- 1" to 48"
- ASME B31.3 & EN488 design
- Fully rated to PN25/ASME 150 Class
- Hot water, buried service
- Fully welded, forged body design
- Built in leak detection (Nordic)
- Trunnion-mounted starting at 6"
- Customizable stem extensions/operators
- Polyurethane (PUR) insulation

## Brugg Pipes CALPEX Pre-insulated Flexible Pipe



- 3/4" to 6"
- PN: 6/10 bar (87/145 psi)
- Up to 80°C
- Lowest heat loss coefficient
- Cross-linked polyethylene (PEXa)
- CFC-free polyurethane (PUR) foam insulation
- Screwed, pressed, or electro-fusion fittings
- Single (UNO), twin (DUO), or quad (QUADRIGA)
- Low temp hot or potable water



### Brugg Pipes CASAFLEX Pre-insulated Flexible Pipe



- 3/4" to 4"
- PN: 25 bar (362 psi)
- Up to 160°C
- Self-cleaning/self-compensating
- Stainless steel spiral corrugated inner pipe
- CFC-free polyisocyanurate (PIR) foam insulation
- Stainless and rigid pipe connectors
- Hot water building connection

### Brugg Pipes EIGERFLEX Pre-insulated Flexible Pipe



- 3/4" to 4"
- PN 16 (232 psi)
- -30°C to 20°C
- Built-in self-adjusting frost protection strip
- Certified polyethylene (HDPE) PE100 inner pipe
- CFC-free polyurethane (PUR) foam insulation
- Cold water piping for above ground or frost line applications

### Brugg Pipes FLEXWELL Pre-insulated Flexible Pipe



- 3/4" to 6"
- PN 25 (362 psi)
- Only flexible pipe for directional drilling
- Patented double-walled steel pipe
- Self-cleaning SS spiral corrugated inner pipe
- CFC-free polyisocyanurate (PIR) foam insulation
- Stainless and rigid pipe connectors
- Buried water -170°C to 150°C

### Brugg Pipes PREMANT Pre-insulated Rigid Pipe



- 3/4" to 40"
- PN 25 (362 psi)
- Up to 144°C
- Available in 6m and 12m bars, in single (UNO) and twin (DUO) pipe
- Carbon steel pipe
- CFC-free polyurethane (PUR) foam insulation
- Buried hot water service, EN253, 448, 488 and 489

### CMO Valves Cement Valves



- 2" to 56"
- ANSI B 16.5 (class 150)
- Interchangeable seal
- Adjustable packing gland
- Flushing holes in the body
- Arrows for indicating flow direction
- Custom engineered solutions and larger sizes upon request
- A selection of diverse materials is available

### CMO Valves Dampers & Air and Gas Valves



- 1" to 120"
- Max working pressure 0.5 bar and temperature 600°C
- Valves with round, square or rectangular T-shaped damper design
- Watertight integrity between 97% and 100%
- Upon request, refractory lining suitable for hot air applications can be provided
- Various models are offered to accommodate customer requirements
- Custom engineered solutions and larger sizes upon request
- Various construction materials, seat and packing available



## CMO Valves Hydro-Mechanical Equipment



- 2" to 120"
- Maximum working pressure tailored to project requirements
- Square, round or rectangular section penstock designs
- Option of Uni-directional or Bi-directional valve
- Arrows on valve body indicate flow direction
- Three- or four-sided tightness available on specific models.
- Custom engineered solutions and larger sizes upon request
- Various models, materials and seals are offered to accommodate customer needs

## CMO Valves Industrial Water & Wastewater



- 2" to 24"
- ASME B16.5 (class 150)
- Bidirectional valve with one-piece cast body and integrated seat
- Stainless steel gate
- High flow rates with low load losses
- Various models are offered to accommodate customer requirements
- Custom engineered solutions and larger sizes upon request
- A diverse selection of materials is available

## CMO Valves Mining Valves



- 2" to 60"
- ASME B16.5 (class 150)
- Monoblock one-piece cast iron body
- Various sealing materials available
- Stainless steel gate with two screwed-down rubber sleeves
- Provides high flow rates with low load loss
- Custom engineered solutions and larger sizes upon request
- A selection of diverse materials is available

## CMO Valves Pulp & Paper Valves



- 2" to 48"
- ASME B16.5 (class 150)
- Unidirectional "LUG" guillotine valve
- Monobloc cast body with internal slides for smooth gate operation
- Provides high flow rates with low pressure drop
- Has an arrow on the body indicating the flow direction
- Custom engineered solutions and larger sizes upon request
- A selection of diverse materials is available

## Conval Inc. Bellows Seal Valve



### Technical Summary

- 1/2" through 4" (4" Reduced Port)
- Through ASME Class 2500
- Available in Angle, Y, or T pattern
- Pressure-assisted seal bonnet
- In-line repairable
- Zero Fugitive Emissions
- Cobalt free seat and disc options available
- Options: electric, pneumatic, and hydraulic actuators
- N Stamp Approved
- F91 Type 1 and Type 2

## Conval Inc. Camseal Ball Valve



- 1/2" to 4"
- ASME Class 900 to 4500
- Metal seated, top-entry, unibody construction
- Zero leakage
- Top entry, in-line renewable in minutes with cartridge assembly
- Integral gland wrench for simple packing adjustments
- Forged steel and alloy materials
- F91 Type 1 and Type 2



### Conval Inc. Clampseal Globe Valve



- 1/2" to 4"
- ASME Class 900 to 4500
- Available in Angle, Y, or T pattern
- Pressure-assisted seal bonnet
- In-line repairable
- Integral gland wrench for simple packing adjustments
- Forged steel and alloy materials
- Firesafe, NACE and LFE options
- F91 Type 1 and Type 2

### Conval Inc. Cryogenic Globe Valve



- 1/2" to 4"
- ASME Class 1500 and 2500
- Single-piece stainless steel gland
- Pressure-assisted seal bonnet
- Forged stainless steel body
- Solid Stellite seat and disc
- In-line repairable
- Integral gland wrench for simple packing adjustments
- F91 Type 1 and Type 2

### Conval Inc. Throttling Valve



- 1/2" to 4"
- ASME Class 900 and 2500
- Replaceable seat/orifice
- Easy-to-read micrometer position indicator
- Pressure-assisted seal bonnet
- Integral gland wrench for simple packing adjustments
- Available in tandem configuration
- F91 Type 1 and Type 2

### Conval Inc. Urea Service Valve



- 1/2" to 4"
- ASME Class 900 to 2500\* Available in Angle, Y, or T pattern
- Pressure-assisted seal bonnet
- In-line repairable
- Integral gland wrench for simple packing adjustments
- Specialty alloys and materials

### Hiltap/OPW SaVD Assembly



- 3/4" to 2"
- ASME Class 900 to 2500
- Pressure-assisted seal bonnet
- Integral gland wrench for simple packing adjustments
- Double isolation & bleed
- Secondary leak containment
- Hydrocarbon vent and drain applications
- F91 Type 1 and Type 2

### Dragon Valves Inc. 2Y Needle Valve



- 1/4", 3/8", 1/2"
- Rated for 6000psig @ 100F / 2500psi @ 800F
- High-pressure/temperature
- Carbon and 316 stainless steel body options
- Metal-to-metal seat (Stellite seat available)



### Flow Control Industries Inc. DeltaP SmartValve



- 2" to 8"
- Pressure independent control
- Real time flow, differential pressure & temperature and calculated BTU
- BACnet interface
- Guaranteed delta T performance
- 10-year warranty up to 8"
- Ductile iron bodies
- Heating to 250°F, chilled water, glycol

### Flow Control Industries Inc. DeltaP Valve (PICV)



- 1/2" to 16"
- Up to 250 °F
- Pressure independent control valve (PICV)
- Guaranteed delta T performance
- 10-year warranty on all 0.5" to 8" valves
- Brass ( ≤ 1.5") and ductile iron ( ≥ 2") bodies
- 3 pressure and temperature ports
- Heating, chilled water, glycol

### Goetze KG Armaturen Angle-Type Safety Valves



- 1/4" to 2"
- -270°C to +400 °C
- Compact design
- High Alloy Stainless steel or Gunmetal material
- Threaded or flange connections
- Also available for cryogenic and hygienic applications

### Goetze KG Armaturen Atmospheric Discharge Safety Valves



- 1/4" to 2"
- -76°F to +437°F
- Brass and stainless-steel materials
- Threaded connections

### Goetze KG Armaturen Overflow and Pressure Control Valves



- 1/2" to 4"
- -76°F to +437°F
- Pressures from 3 psi to 435 psi
- Threaded or flange connections

### Goetze KG Armaturen Pressure Reducing Valves



- 1/4" to 4"
- -40°F to +248°F
- Stainless steel and gunmetal materials available
- Inlet pressure up to 870 psi, Outlet pressure adjustable
- Threaded or flange connections



### Hiltap/OPW Burst Pup



- 2<sup>3</sup>/<sub>8</sub>" , 2<sup>7</sup>/<sub>8</sub>" , 3<sup>1</sup>/<sub>2</sub>" , 4<sup>1</sup>/<sub>2</sub>" , 5" , 5<sup>1</sup>/<sub>2</sub>"
- Threaded ends for easy installation
- Larger window for quicker, more efficient pip blocking
- Bolder design for more torsional load
- Retreated window to prevent premature failure
- Traceable ID for verification
- Built to ISO 9001-2015 standards

### Hiltap/OPW RapidLOK™ Series Safety Quick Coupling



- 3/4", 1", 2", 3", 4" and 6"
- Pressure ratings equivalent to ANSI 150/300
- Cannot disconnect under line pressure
- 1/4 turn on/off provides rapid engagement
- Leakproof operation
- Pressure locking ensures proper connection
- Stainless steel, low-temperature carbon steel, & aluminum

### HORA Regelarmenturen Attemperators/Desuperheater



- Several design types available, selected and sized for optimal performance:
- ASME Class 600 to 2500
- Multi-nozzle spray (standard and cooled) with integral control
- Steam atomized, venturi, and injection lance types with separated control function
- Electric and pneumatic actuation, instrumentation to suit the installation requirements

### HORA Regelarmenturen Automatic Pump Recirculation Valve



- 1-1/2" to 8", larger sizes available
- ASME Class 150 to 1500
- On/off recirculation flow control
- Ensures pump protection at minimum flow
- Low noise, single or multi-stage pressure let-down
- No pneumatic or electrical connections
- In-line repairable

### HORA Regelarmenturen Control Valve



- Up to 24"
- ASME Class 300 to 2500
- HP and LP control valves for standard and severe services
- Body, trim, seat and seals are sized and selected for optimal performance\*
- Buttweld or flange connection
- Pneumatic, electric, or hydraulic actuation
- Water, feedwater, and steam

### HORA Regelarmenturen Gas Control Valve



- Up to 10" (DN 250)
- ASME Class 150 to 1500
- Transmission and storage applications
- Turbine bypass valves
- Anti-surge and emergency shutdown for compressors
- Axial control valves for storage applications
- Gas pressure let down
- Zero-emission and H2 ready



## HORA Regelarmenturen Steam Conditioning Valve



- Combined pressure-reducing and desuperheating
- ASME Class 150 to 1500
- Globe, Angle, or Z-style body
- Carbon steel, stainless steel, and other alloys
- Butt weld or flanged ends

## HORA Regelarmenturen Turbine Bypass System



- Custom engineered
- ASME Class 150 to 2500
- 100% of capacity of turbine
- HP, IP, LP designs

## Hy-Lok Distribution Inc. Instrumentation Valves



- 1/8" to 1"
- Pressure rating up to 10000psig (689bar) at 100°F (38°C)
- Temperature rating -196 C to 1200 F with Grafoil packing
- Variety of body materials available
- Compact and rugged design
- 100% factory tested

## Hy-Lok Distribution Inc. Tube Fittings



- 1/16" to 2"
- Pressure rating up to 10000 psig (689 bar)
- -320°F (-196°C) to 998°F (537°C)
- Compression double ferrule
- Easy installation and re-assemblies
- Vibration resistance and gaugeability
- Complete interchangeability
- No special tools required
- ASTM F1387 and EC-79 certified

## Hy-Lok Distribution Inc. Tubing



- 1/8" to 2"
- Available in 304 and 316SS, specialty alloys upon request
- Wall thickness range .028 to .188

## Mascot Valves DiskFlo - High Performance Butterfly Valve



- 2" to 72"
- ASME Class 150 to 600; 900 upon request
- Double offset disc that reduces wear and leakage
- Flex lock seat that ensures tight shutoff
- Anti-blowout shaft
- Ease of maintenance
- High degree of interchangeability





## Mascot Valves

### EFlo - Eccentric Plug Valve



- 1" to 24"
- ASME Class 150 to 600; 900 upon request
- Extended rangeability for precise control
- Non-crossover shaft to enhances flow and prevent damage
- End-post design ensuring precision and preventing loss
- Low breakout torque
- Separate bonnet design
- Integral noise attenuation and cavitation control options

## Mascot Valves

### GFlo - Globe Control Valve



- 1/2" to 36"
- ASME Class 150 to 4500
- Top entry design for easy maintenance
- Various trim combinations available
- Non-galling design with exceptional shut-off
- Spring cylinder actuator for enhanced performance
- Custom body materials and end connections available

## Mascot Valves

### QuickFlo - Shut-off Ball Valve



- 1/2" to 24"
- ASME Class 150 to 300
- Anti-blowout & anti-static shaft
- Heavy duty design for fugitive emission control
- Various design variations available
- Firesafe low torque design
- Bubble tight shutoff with bi-directional flow
- Variety of packing options available

## Mascot Valves

### VFlo - Segmented Ball Valve



- 1" to 24"
- ASME Class 150 to 600; 900 upon request
- Flex-lock seal technology
- Anti-blowout shaft
- High degree of interchangeability
- Segmented V-Notch Ball
- Single piece body and retainer design
- Higher shell thickness

## Onyx Valve Company

### Duck Bill Check Valve



- 1" to 60"
- Exterior mount or internal installation
- Flanged or slip-on connection
- Open and enclosed designs
- NSF approved
- Available in a variety of elastomer compounds

## Onyx Valve Company

### Expansion Joint



- 1-1/4" to 20", custom available
- Prevents pipe displacement/stress and reduces noise and vibration
- Customizable to the application
- Single or multiple arches
- Standard design ships from stock



## Onyx Valve Company Pinch Valve



- 1/2" to 36"
- Full-round or pre-pinched
- Single or dual pinch
- Manual, electric, or pneumatic actuator
- On/off and modulating service
- Available in a variety of elastomer compounds

## Onyx Valve Company Pressure Sensor



- 1" to 42"
- Modular seals for in-line maintenance
- Up to 3 instruments per ring
- Combinations to suit the application
- Guaranteed to never clog or plug
- Flanged, screw-on, tri-clover connections
- Available with gauges, pressure switches, and transmitters

## OS&B Industrial OSB13L Butterfly Valve



- Ductile Iron Butterfly Valve
- 2"-24" Class 125 ASME B16.1
- 232PSI (2"-12"), 150PSI (14"-24")
- Lug body, stainless steel disc and stem, EPDM seat
- 10 position lever handle up to 8"
- Gear operator 10" and above
- NSF approved coating, EPDM seat
- Epoxy coated -optional NBR, VITON and PTFE seats
- ISO-5211 direct mount

## Persta High-Pressure Forged Valve



- 1/2" and larger
- ASME Class 900 to 4500
- Gate, globe, and check valves
- Forged steel and alloy materials
- High pressure / high temperature applications

## SchuF & Fetterolf Blowdown Valves



- 1" to 6" for standard offering, larger upon request
- ASME Class 150 to 1500
- Continuous and Intermittent blow down function
- Y- and Angle Body Patterns
- Wide range of materials available
- Replaceable seat, design allows for quick & easy maintenance
- Low fugitive emission design option

## SchuF & Fetterolf Cam-Set®, Cam-Slide®, Cam-Goggle®, and Stacey™ Line Blinds



- Up to 60", larger upon request
- ASME Class 150 to 1500; higher upon request
- Positive isolation; fast changeover
- No flange separation required for Cam-set/Slide/Goggle/Stacey
- Buttweld and flanged ends
- Carbon and stainless steel
- Lockable



### SchuF & Fetterolf Disc Bottom Outlet Valve



- 1" to 24"
- ASME Class 150 to 2500
- Metal-to-metal positive shut-off
- Wide range of materials and coatings available
- Disc lowering or rising design
- Dead space free and crust breaking

### SchuF & Fetterolf Diverter Valve



- 1" to 18"
- ASME Class 150 to 2500
- Combines process flows or switches media
- 3,4,5 and multiple inlets and outlets
- Metal-to-metal seated
- Dead space free
- Contoured ram, heating jacket, flushing ports optional
- Applications with highly viscous media / continuous backflush

### SchuF & Fetterolf Lift Plug Valve



- Up to size 36"
- ASME Class 150 to 2500
- IsoPlug design: isolates media flow
- SwitchPlug design: switches between 3 inlets
- TruePlug design: double block and bleed in one enclosed body
- Materials CS and C12a
- Ideal for high temperature, abrasive, and/or clogging applications

### SchuF & Fetterolf Piston Bottom Outlet Valve



- 1" to 24"
- ASME Class 150 to 2500
- Dead-space free positive or radial sealing arrangements to suit the application
- Flushing connection is standard
- Self-draining and dead space free at the inlet
- Wide range of materials and coatings available
- Multistage and cage release design for pressure letdown optional

### SchuF & Fetterolf Sampling Valve



- 1/2" to 1-1/2"
- ASME Class 600
- Simplifies extraction/injection of samples into vessels
- Metal-to-metal or PTFE positive shut-off
- Non-clogging / dead space free
- Ram and disc type
- PTFE or graphite packing
- Wafer and integral pipe design
- Bottle systems available

### SchuF & Fetterolf Severe Service Angle Control Valve



- 1" to 36"
- ASME Class 150 to 2500
- Suited for severe operating conditions
- Custom designed and optimized to suit process conditions
- Cast or forged body materials
- Special body/trim material; titanium, Hastelloy, Inconel, tungsten carbide, ceramic



### SchuF & Fetterolf Tank Emergency Shut-off (TESO) Valve



- Designed for storage tanks, as required by API 625
- Engineered to shut-off on loss of power, or valve damage
- Available in disc, bottom outlet, lift plug styles

### Somas Instrument AB Ball Segment Valve



- 1" to 10" standard, up to 28"
- ASME Class 150 to 600
- For control and on/off applications
- Stainless steel and exotic alloys, metal and soft seated options
- In wafer and flanged styles

### Somas Instrument AB Ball Valve



- 1" to 20"
- ASME Class 150 and 300 <2"
- For control and on/off applications
- Stainless steel body, configurable trim materials and designs
- Available with flanged end connections
- Repairable without removing the actuator

### Somas Instrument AB Triple Eccentric (TOV) Butterfly Valve



- 3" to 48"
- ASME Class 150 to 600
- High-performance, triple eccentric design
- For isolation and control applications
- Stainless steel and exotic alloys, metal and soft seated options
- Available in wafer, lug, and flanged styles

### Stainless Valve Co. O-Port Slide Gate Valve®



- Sizes 6 to 72 inch
- Pressure ANSI 150 to 1500 psi
- Temperature to 1000F
- Liquids, gases and solids flow
- Shut-off, flow control and line blind
- Straight thru flow
- Flat blades can be easily remachined

### VRG Controls Linear Control Valve



- 2" to 16"
- ASME 150 to 1500
- Flexible, top-entry design with interchangeable trim
- Balanced and unbalanced trim designs
- Options for Class IV to Class VI Shut-Off
- Wide range of material options



## VRG Controls Red Ox Regulator



- 2" to 8"
- ASME 150 to 600
- Compact, lightweight design
- Single moving part for minimal maintenance
- No atmospheric emissions
- Full stainless-steel construction
- Compatible with VRG Pilot Controllers
- Protected seat insert for shutoff reliability
- Wafer and top entry designs

## VRG Controls Rotary Control Valve



- 2 to 26"
- ASME 150 to 1500
- Trunnion mounted, bolted body
- Full port for maximum capacity
- Specialized trim options for noise attenuation
- Class V to Class VI Shut-Off options

## VRG Controls Valve Pilot Controls



- Pneumatic pressure control pilots
- 3 psig-1500 psig set points
- Compatible with most pneumatic actuators
- Field reversible without tubing change or hardware
- Double acting: No Vent Device "NVD" ensures ZERO emissions at full open and closed
- Single acting: ZERO emissions at steady state, full open, full closed



# SPECIALTY VALVES & PROCESS EQUIPMENT + 100s OF SOLUTIONS EVALUATED FOR QUALITY

### Gate, Globe & Check

- Forged, cast & special alloy
- Y, T, angle, globe
- Gate
- Knife gate
- Needle
- Checks - piston/nozzle/stop

### Plug

- Lubricated & non-lubricated
- Lift plugs

### Control

- Throttling
- Globe
- Steam conditioning
- Desuperheater/ attemperator
- Ball segment
- Pinch
- Butterfly
- Pressure independent control valves (PICVs)
- Automatic pump recirculation



Globe Valves



Ball Valves



Knife Gate Valves

### Ball

- API 6D trunnion (fully welded & split body)
- Floating
- Ball segment
- Metal & soft seated
- Ceramic lined
- Buried service pipeline

### Special Purpose

- Air release
- Bottom outlet
- Diverter & changeover
- Sampling
- Mixing
- Delayed coker
- Safety
- Hygienic

### Bulk Handling

- Knife gate, slide gate
- Pinch
- Rotary air lock
- Dump/flap
- Scavenger

### Butterfly

- Triple offset
- High performance
- Resilient seated



Line Blinds

**We supply custom valves to fit your specific application requirements.**  
**Contact: [customercare@armourvalve.com](mailto:customercare@armourvalve.com)**

## MEASUREMENT

- Electronic level gauges
- Visual level gauges
- Magnetic Level gauges
- Isolation rings

## SPECIAL PURPOSE

- Flame arrestors
- Quick change line blinds
- Quick disconnect fittings
- Back pressure regulator
- Pre-insulated flexible & rigid pipe

## ACTUATION

### Automation

- Quarter-turn & multi-turn
- Open-close & control
- Pneumatic
- Hydraulic
- Electro-hydraulic

### Accessories

- Air sets
- Limit switches
- Mounting kit
- Positioners
- Sensors
- Solenoid valves



Attemperators/  
Desuperheaters



### Value-added services for infrastructure solutions

- 100s of solutions for projects & day-to-day
- Engineered valve solutions—we can help
- Factory certified service department
- On-site & in-house service & repair
- Virtual or in-person maintenance training
- Sizing & selection support
- Complete valve assemblies
- All suppliers meet rigorous quality standards

### Mounting & configuration of all major actuator brands



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