

## Industrial Valves On/Off - Regulating - Control

*Applications in industry and industrial processes:*

*District Heating, Gas, Steam, Energy Power, Water/Waste, Pharmacy,  
Chemical-Petrochemical, Food, etc.*

Top manufacturers we represent-distribute in Romania:

### ADCA Valsteam (P)



#### Steam & Industrial processes expert

CE-3.1-ISO-EN-FAA-ATEX / threaded-flanges-welding ends  
Control/On-Off valves - DN15-200/2-3 way/250 bar/400 °C;  
P/T Reducing/regulating valves - DN15-200/2-3 way/250 bar/400 °C;  
Steam traps - DN15-150/PN16-250 bar/Tmax 580 °C;  
Steam ancillaries – actuators, strainers, dehumidification, field instrumentation, burners, mixers, etc.

### TOSACA SA (E)

**TOSACA**

#### Safety valves – CS/SS industrial applications

EN/ANSI-CE-3.1-ISO-ATEX / thread-flanges ends  
DN15x25÷200x300/PN16-100 (cls.150-2500)/Tmax 350 °C

### LDM (Cz)



#### Control/On-Off/Regulating valves

EN/ANSI-CE-3.1-ISO-ATEX / threaded-flanges-welding ends  
Control valves 2/3 way - DN15-600/PN16-63/Tmax 550 °C  
P/T regulators - DN15-150/PN16-25/Tmax 180 °C  
Direct/Pilot operated Safety Valves - DN15x25-400x600/PN16-100/450 °C  
On/Off valves - DN15-65/PN16-630/Tmax 650 °C

### BROEN LAB (DK)

**BROEN-LAB**

#### Emergency Showers & Eye Washers

Frost protected Emergency Showers & Eye Washers  
Sensor tap for cold, hot or tepid water  
*UniFlex fittings for Water, Burning Gases, Vacuum, 2.0 Technical Gases & Vacuum, 4.0 Technical Gases, Oxygen & Vacuum*  
*Quick Connect – Flexible Lab solution for technical gases purity 2.0, 4.0 & 5.0 • Vacuum • Burning gases • Water*

### ATAGOR (Pl)



Your expert in anticorrosion protection for industrial pipes, valves, accessories & structures.

FiberFlo® - complete system consist in composite pipes, fittings and tanks for industrial applications- DN25-2000/PN4-40/Tmax 150 °C.

For more details please visit our web page [www.firsttech.ro](http://www.firsttech.ro).

# **VALSTEAM – ADCA – ADCAPure – ADCAMat**

## **ADCA – Complete range for steam and industrial fluid systems**

### **Steam Traps**

- **Thermodynamic** DN10-25 / PN40 / 400 °C / threaded/flanged/welded ends / CS-SS
- **Float & Thermostatic** DN15-100 / PN16-40 / 250 °C / threaded/flanged/welded ends / CI-CS-SS
- **Inverted Bucked** DN15-50 / PN16-40 / 400 °C / threaded/flanged/welded ends / CI-CS-SS
- **Thermostatic** DN10-50 / PN16-40 / 250 °C / threaded/flanged/welded ends / Brass-CS-SS
- **Bimetallic** DN15-125 / PN16-100 / 525 °C / threaded/flanged/welded ends / CS-SS

### **Pressure Regulators**

- **Pressure reducing valves** DN15-150 / PN16-40 / 250 °C / threaded/flanged/welded ends / CI-CS-SS
- **Pressure sustaining valves** DN15-100 / PN16-40 / 300 °C / threaded/flanged/welded ends / CS-SS
- **Blanketing valves** DN15-25 / PN16 / 130 °C / flanged ends / SS
- **Pressure reducing stations**

### **Control Valves**

- **2-way control valves** DN15-200 / PN16-40 / 400 °C / threaded/flanged ends / CI-CS-SS
- **3-way control valves** DN15-150 / PN16-40 / 300 °C / flanged ends / CI-CS-SS
- **Blow down valves** DN20-50 / PN16-40 / 400 °C / flanged ends / CS-SS
- **TDS valves** DN15-40 / PN16-40 / 400 °C / flanged ends / CS-SS
- **Overflow valves** DN15-80 / PN16-40 / 400 °C / flanged ends / CS-SS

### **Self-acting temperature control valves**

- **Direct acting TR valves** DN15-25 / PN16-40 / 400 °C / flanged/threaded ends / CS-SS

**Instrumentation** – pressure transmitters, digital controllers, temperature probes, conductivity probes, 3/2 way solenoid valves, digital indicators, filter regulators, position indicators, etc.

**Pipeline ancillaries** – Air & Gas vents, Strainers, Check valves, On-Off valves, Vacuum breakers, Sight glasses, Pressure & level gauges, Cocks & Siphones

**Pneumatic and electric linear actuators & accessories**

**ADCAPure – Complete range for Pharmaceutical, Food, Cosmetic, Fine chemical industries, clean steam, clean air, nitrogen, oxygen, WFI, etc.**

### **Steam Traps**

- **Thermostatic** DN8-25 / PN6 / 165 °C / ASME-ISO-DIN Clamp ends / SS

### **Pressure Regulators**

- **Pressure reducing valves** DN8-80 / PN8-16 / 180 °C / ASME-ISO-DIN Clamp ends / SS
- **Pressure sustaining valves** DN8-50 / PN8 / 180 °C / ASME-ISO-DIN Clamp ends / SS
- **Blanketing valves** DN15-25 / PN6-16 / 130 °C / ASME-ISO-DIN Clamp ends / SS

### **Control Valves**

- **2-way control valves** DN15-100 / PN16 / 170 °C / ASME Clamp or ETO ends / SS
- **3-way control valves** DN15-100 / PN16 / 170 °C / ASME Clamp or ETO ends / SS

**Safety valves** DN20-40 / PN16 / 180 °C / ASME Clamp ends / SS

**Pipeline ancillaries** – Air vents, Check valves, On-Off valves, Vacuum breakers, Sight glasses, Pressure gauges

**ADCAMat – Mechanical or electric condensate recovery units, Flash steam heat recovery systems, Pressure reducing stations, Heat transfer stations, Sampling stations, Pumps & pump traps, Humidity separators, Steam injectors, Steam-water mixers, Packaged Units, Skids, Sample coolers, Direct steam humidifiers, etc**



## Tosaca

TOSACA is the specialist manufacturer of safety relief valves with a complete range of the size DN15-400 ( $\frac{1}{2}$  to 20"), rating PN16-100 (class150-2500), and all types of materials such as nodular, carbon steel, low temperature carbon steel, stainless steel, Inconel, Duplex, SuperDuplex and special coating in ECTFE/Halar/Niflon.

All TOSACA safety relief valves are designed, manufactured and certified according CE/ASME regulations. The products comply with the Pressure Equipment Directives 2014/68/EU and ATEX 2014/34/EU, as well as with the regulations in force for each of the sectors and corresponding Applications. They are designed and manufactured under strict quality control ISO 9001:2015

## OPERATION

TOSACA safety relief valves are a direct spring-loaded suitable for gas, liquid and steam service. The seat can be metal-metal, PTFE or Viton. The safety valves are set at ambient temperature.

Backpressure 10%. If backpressure is  $> 10\%$  of set pressure, then you must put bellows. The allowable tolerances or limits as applicable on the operating characteristics are as follows:

a) Set pressure:  $\pm 3\%$  of set pressure. The operating pressure should not exceed 90% of set pressure.

b) Lift: not lower than the value specified by the manufacturer.

c) Overpressure: Compressible fluids: 10%

Incompressible fluids: 25%

Fire case: 21%

d) Blowdown: not greater than the value stated by the TOSACA, but within the following limits:

MODEL 1216

MODEL 1216 B

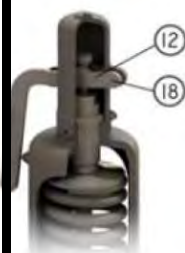
MODEL 1216 C

Compressible fluids: minimum 7% maximum 10%

Incompressible fluids: minimum: 7% maximum: 20%

## Options

Lifting device



Sealed packing lever



Open bonnet



Soft seat



Bellows





## Flow-Mon Ltd.

Manufacturer of Specialist Flow Instruments

Flow-Mon is a specialist manufacturer of flow indicators and switches, turbine meters and sight glasses producing cost effective and robust flow solutions to industry for almost 50 years.

Our range of products from simple low-cost sight indicators to large capacity flow rate indicators and switches for heavy industrial use. Our products are suitable for a wide range of applications including oil, water, chemicals and gas which are chemical resistant, accurate and can be fitted with several switch or output options for use in hazardous environments.

### Multi-Industry Flow Solutions (CE-PED / ISO9001 / ATEX)

Flow-Mon have supplied flow solutions for oil, water, compressed air, gas and steam applications to a broad range of industries including Steel Production, Power generation, Petrochemical, Automotive, Mining, Marine, Paper & Pulp for almost 50 years. We provide our customers with quality and reliable products with a long service life suited for the harshest of industrial environments.

## PRODUCTS RANGE

Double Window Sight Glass Indicator – DN8-400 / 250 °C / 40 bar / CS-SS / threaded-flanged-welded ends

Large Series - Flow Rate Indicator – DN8-200 / 350 °C / 200 bar / CI-CS-SS-PTFE-Al-Bz-PVC / threaded-flanged-welded ends / Flow 0-5000 l/min / +/-3% accuracy

Medium Series - Flow Rate Indicator – DN8-50 / 350 °C / 200 bar / CI-CS-SS-PTFE-Al-Bz-PVC / threaded-flanged/welded ends / Flow 0-800 l/min / +/-3% accuracy

Low Flow Series - Flow Rate Indicator – DN8-50 / 350 °C / 200 bar / CI-CS-SS-PTFE-Al-Bz-PVC / threaded-flanged ends / Flow 0-3500 l/min / +/-3% accuracy

Wafer - Flow Rate Indicator – DN80-300 / 350 °C / 200 bar / CI-CS-SS / Flow 0-3500 l/min / +/-3% accuracy

Plastic Sight Glass Indicator – DN8-25 / 80 °C / 10 bar / Polycarbonate / Flow 0-40 l/min / threaded ends

Rising Ball Sight Flow Indicator – DN8-40 / 200 °C / 16 bar / SS-Bz / threaded ends / Flow 0-450 l/min

Spinner Style Sight Flow Indicator – DN8-40 / 200 °C / 16 bar / SS-Bz / threaded ends / Flow 0-200 l/min

Small Series Flow Rate Indicator – DN8-25 / 330 °C / 200 bar / CI-CS-SS-PTFE-Al-Bz-PVC / threaded-flanged-wafer ends / Flow 0-800 l/min / +/-3% accuracy

Turbine Flowmeters – DN2-4500 / 280 °C / 250 bar / CI-CS-SS-PTFE-Al-Bz-PVC / threaded-flanged-TRI Clamp ends / Flow 0-800 l/min / +/-0,5% accuracy

- Accredited to ISO 9001

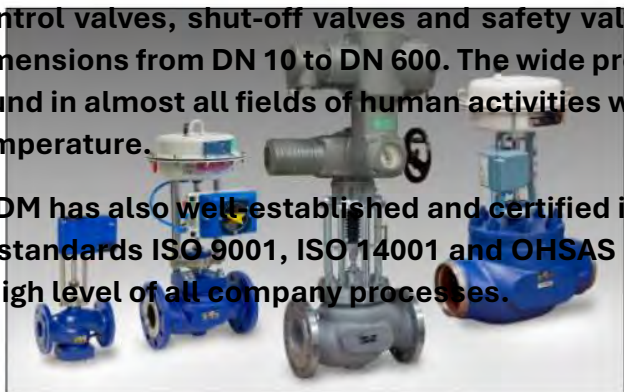
- Certified PED and ATEX



## LDM Valves

LDM is strongly export-oriented company with more than 220 employees and LDM industrial valves can be found worldwide particularly in power generation, industrial processes, heating, ventilation, air conditioning, gas industry and other applications. LDM product range includes control valves, shut-off valves and safety valves in pressure ranges from PN 6 to PN 630 and dimensions from DN 10 to DN 600. The wide product portfolio is a reason why LDM valves can be found in almost all fields of human activities where it is necessary to control a flow, pressure or temperature.

LDM has also well established and certified integrated quality management system according to standards ISO 9001, ISO 14001 and OHSAS 18001 which it is ensuring permanent quality and a high level of all company processes.



### PRODUCTS

#### Control & Shut-Off valves

**RV200 (2xx)** 2/3 ways, body material CI-CS-SS, DN15-600, flanges PN16-40, Tmax 500 °C, Ex  
**RV300 (3xx)** 2 ways, body material CS-SS, DN15-400, flanges-weldings PN16-63, Tmax 550 °C, Ex

#### Control valves

**RV100 (1xx)** 2/3 ways, body material Brass-CI, DN15-150, threaded-flanges PN16-25, Tmax 150 °C  
**RV700 / RV800 / RV900 / G** special application valves

#### Shut-off valves

**UV100 (1xx)** 2 ways, body material CI, DN15-300, flanges PN16, Tmax 300 °C  
**UV200 (2xx)** 2 ways, body material CI-CS-SS, DN15-400, flanges PN16-40, Tmax 400 °C, Ex  
**UV500/900** special application valves

#### Pressure & temperature regulators

**RD100 (1xxx)** 2 ways, body material Brass-CI, DN15-50, threaded-flanges PN16-25, Tmax 180 °C, differential-output-input  
**RD200 (2xxx)** 2 ways, body material CI, DN65-150, threaded-flanges PN16-25, Tmax 180 °C, differential-output-input-bypass

#### Safety valves

**PV61 (61xx)** body material CI-CS, DN15-400, flanges PN16-100, Tmax 450 °C, full lift open bonnet  
**PV63 (63xx)** body material CI-CS-SS, DN15-400, flanges PN16-100, Tmax 400 °C, full lift closed bonnet  
**PV25 (25xx)** body material CI-CS-SS, DN15-200, flanges PN16-40, Tmax 450 °C, proportional closed bonnet  
**SIZ1508/9** special safety valves & accessories

#### Check valves - Check closing valves

**ZV200** body material CS-SS, DN15-200, flanges PN16-40, Tmax 400 °C  
**UV/ZV926** body material CS, DN15-65, flanges-weldings PN16-630, Tmax 600 °C



## Other valves and accessories



# BROEN-LAB

BROEN-LAB is a leading producer of laboratory solutions and emergency shower systems. Our customers are laboratories and industrial companies, primarily in the pharmaceutical, food & beverage and educational sectors. BROEN-LAB delivers premium solutions focused on functionality, flexibility, compliance, durability, and safety. For over 50 years, our products have been integrated into diverse workplaces, laboratories, hospitals, and industrial sites, offering flexible features and a range of options tailored to each location.

Approvals: ISO9001/14001/45001; BSI; WRAS; CSA; SEFA; DVGW; KIWA; etc

## Emergency Showers & Eye Washes

Hand-Held Eye Showers & Eye/Face Showers  
 Recessed Emergency Showers  
 Body Showers  
 Combination Showers  
 Emergency Showers in Stainless Steel  
 Accessories for Emergency  
 Connections for Emergency Showers

## Frost Protected Emergency Showers & Eye Washes

Frost Protected Combination Showers  
 Frost Protected Body Showers  
 Frost Protected Eye/Face Showers  
 Heated Tank Showers  
 Mobile & Portable Emergency Showers  
 Accessories for Frost Protected Showers  
 FALCON - A Cloud-Based Monitoring System  
 Test Equipment for Emergency Showers

## BROEN-LAB Sensor tap for cold, hot or tepid water

The sensor tap offers handsfree distribution of potable cold, hot or tepid water. The sensor tap comes as a standalone version for a fixed water temperature or as a mixing version with either manual or thermostatic regulation of water temperature. It is coated with a chemical resistant polyester-based surface treatment, making it ideal for laboratories environments. The sensor tap has an automatic hygiene flush, which is automatically activated for 30 seconds 72 hours after the last use.

## BROEN-LAB UniFlex fittings for Water, Burning Gases, Vacuum, 2.0 Technical Gases & Vacuum, 4.0 Technical Gases, Oxygen & Vacuum – Premium & Basic Versions

Premium fittings for water are designed for laboratory use. The operation and the configuration of the fittings are highly adapted to the requirements of a modern laboratory. The fittings are surface treated with BROEN-LAB POLYCOAT powder coating, which is highly resistant to most chemicals, UV fading and heat. Most water fittings are as standard delivered with a removable hose nozzle with a loose union nut which offers quick and effortless assembly and disassembly when a hose has been fixed to the nozzle. As an option it is possible to get water fittings with integrated check valve which prevent backflow.

## BROEN-LAB Quick Connect - Technical gases Purity 2.0, 4.0 & 5.0 Vacuum • Burning gases • Water

BROEN-LAB Quick Connect is the new innovative and flexible lab solution, it has a compact design that increases the size of the "working area" and reduces the downtime of the laboratory. With BROEN-LAB Quick Connect you no longer have to finalise all processes in the laboratory layout from the outset. It lets you change both gas and fluid types as well as accessories, quickly and easily - with no need for external assistance. This flexibility means that you can convert for different types of tests or trials in the same room. In other words, it gives you several labs in one. This means that you are ready when the world changes.

BROEN-LAB Quick Connect features • Easy to install - 7 different ways of mounting • BROEN-LAB UniFlex inlet connection • Non-return valve in the outlet - Closes when the plug is disengaged Materials: • Body: Brass Products prepared for 4.0 and 5.0, all wetted materials are ultrasonic cleaned and packed in sealed bags. • Adaptable for changes • Flexible lab solution - Wide range of accessories • 100% safe • Unique key system - Colour coded according to the EN 13792 or SEFA norm.



# ATAGOR

## Active and passive corrosion protection for gas/power pipes & fittings

Since 15 years we proudly operate as leaders in our trade. We employ a variety of advanced anticorrosive pipeline protection systems. We are proud that during the same time we induced many technologies in gas and power industry, which become standards and significantly improved quality and safety of key installations.

- Inover Casing Filler technology which protects casing pipes;
- Viscoelasting coatings with exceptional insulation capabilities;
- Service repairs and pipeline reinforcement standards with use of composite materials;
- PUPP first automatized method of mechanical protection of field joints, used in drilling technology

**Inover Wax** – cold applied petrolatum tape complies with PN EN12068 (world's first passive corrosion prevention system for pipelines), -30...+50 °C, class A acc DIN30672 & EN12068;

**Inover Casing Filler** – preventing solution for new pipelines prevents electrolytes from entering the casing pipes or rehabilitation for existing pipelines by eliminating the electrolytic short circuits and stopping the corrosion process. Inside or outside casing pipes. Ecological safety approved by Hygienic Institute.

**PUR Polyurethane Coatings** – hand or cartridge applied PUR secures steel and cast iron pipelines, welded connections, induction bends, structures, containers and fittings in ground or above ground constructions. High abrasive, mechanical and chemical resistance (>13MPa).

## Pipes structural repair system – Composite & reinforcement materials

We provide both solutions that comply with EN ISO24817/2017 & ASME PCC-2

**MCU system (moisture cured)** - a high strength water activated fiberglass composite pre-impregnated systems. It is designed for restoring the structural strenght of degraded pipe varying geometries. It restores defects, adding up to 80% thickness up to 10MPa. The system also includes filler & primer in hydrophobic version.

**Wet lay-up system** – on-site applications that reinforce pipes in aggressive environments by containing hoop and axial loads. The high-strength composite repair system uses an epoxy resin and tri-axial glass or carbon fiber reinforcement for customizable operations.

## In field services and trenchless technologies

Live Leak Sealing – Coating & Rehab Jobs – Pipelines diagnostic & Survey

Inover & Inover F – in field or factory epoxy resin & glass fiber laminate of pipes

Cathodic protection

Centering spacers and accessories

## FiberFlo – Composite pipes and fittings system GRP for power generation & industry

GRP system benefits – high abrasion resistance, low pumping costs, low wight – low installing costs, low coefficient of thermal linear expansion (<0.2%), +150 °C, max PN40, high chemical resistance, long life service max 50 years, maintenance free.

### PRODUCTS

**Pipes** – DN25-2000, PN4-40, tmax 150 °C, connections flanged, laminated, glued, welding, type A, B, D & E according DIN16965-4 & DIN16965-5, thermal insulation and leak monitoring.

**Fittings** – elbows 30-45-90° (DIN16966-2), reducers (DIN16966-5), T joints (DIN16966-4), plugs (DIN16966 & EN1092-1), stub flanges (DIN16966-6 & EN1092-1), butt-joints (DIN16966-8), etc.

**Tanks & Vessels** – DN600-4000, L 0.5-12 m, PN16, vertical & horizontal oriented.

**Applications:** Heating & Geothermal industry, Waste -Incineration plants, Cellulose & paper industry, Ship building, Chemical industry, Sewage treatment, Water pumping stations, Mining, etc.



Composite piping  
systems for power  
generation and industry



## Industrial Valves On/Off - Regulating - Control

*Applications in industry and industrial processes:*

*District Heating, Gas, Steam, Energy Power, Water/Waste, Pharmacy,  
Chemical-Petrochemical, Food, etc.*

### International cooperation

#### **IBC Valves (Cz)**



**Industrial valves EN/API**

**EN/ANSI-CE-ISO-API-ATEX-3.1-EN12569 / threaded-flanges-wafer-welding ends**

**Gate Valves – DN8-1200/PN16-400/Tmax 550 °C**

**Globe Valves – DN6-500/PN16-400/Tmax 550 °C**

**Check Valves – DN8-1400/PN6-400/Tmax 550 °C**

**Butterfly Valves – DN32-2000/PN6-100/Tmax 550 °C**

**Ball Valves – DN3-1200/PN10-400/Tmax 550 °C**

**Strainers – DN15-600/PN16-400/Tmax 550 °C**

**Contact: [office@firsttech.ro](mailto:office@firsttech.ro)**

### Romanian Partners

#### **BROEN SEI srl**



**Specialized On/Off Ball Valves for District Heating & Gas**

**CE-EHP-EN488-3.1-ISO / threaded-flanges-welding ends**

**Above/underground applications**

**DN15-1000/PN16-100/Tmax 250 °C**

**Balancing Valves & Differential Pressure Transducers for district heating**

**Contact: [san@broen.ro](mailto:san@broen.ro)**

For more details please visit our web page [www.firsttech.ro](http://www.firsttech.ro).