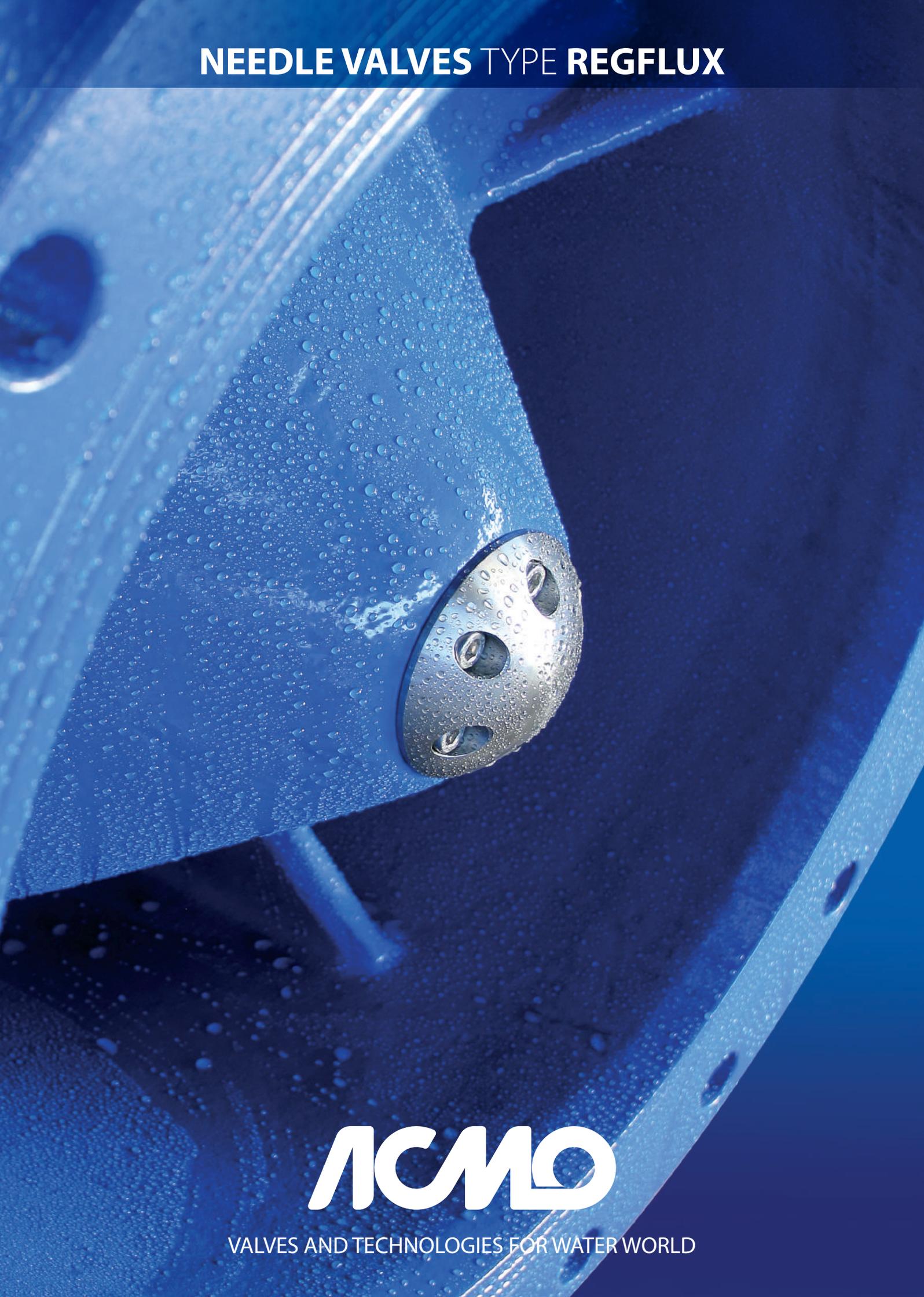


# NEEDLE VALVES TYPE REGFLUX

A close-up photograph of a needle valve assembly. The valve is a circular metal plate with three small circular ports, mounted on a blue metal surface. The entire scene is covered in numerous small water droplets, suggesting a wet or high-pressure environment. The lighting is dramatic, highlighting the metallic textures and the glistening water.

**ACMO**

VALVES AND TECHNOLOGIES FOR WATER WORLD

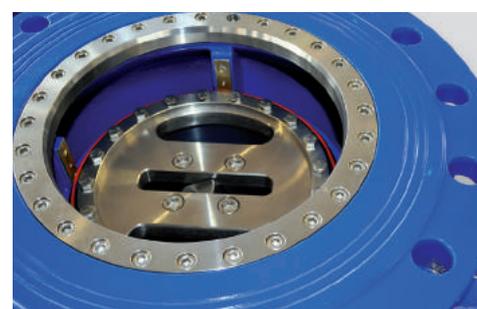
## MAIN FEATURES

- Product range from DN 80 to DN 2000
- Pressure classes PN 10-16-25-40-64-100
- Design & Manufacturing according to EN 1074-1 / EN 1074-5 / EN 1349
- Face-to-face according to EN 558 S15 (F5)
- Flanges according to EN 1092-1/2 or ANSI B16.5 CL 150/300/600
- Easy installation
- Reduced pressure loss
- Corrosion protection by FBE coating 300 microns, color RAL 5005. Potable water approved DM174 / WRAS / ACS
- Class A tightness According to EN 12266
- Control valve in straight way type
- Standardized face-to-face for the whole range
- ICIM Product Certificate: DN80÷1600 PN10-16 DN80÷1000 PN25



## ADVANTAGES

- State of the art design.
- Innovative design for flow optimization with a reduced pressure loss in open valve position. Reduced torque for low actuating moments aimed to facilitate the operations of all actuators.
- Long life of all sealing systems. All the gaskets are located safely in the no-flow zone.
- Long-Life of the valve in all conditions with all internal and moving parts in stainless steel. The body is completely protected by Heavy Duty Corrosion Protection FBE coating.
- Accurate construction completely made in Italy with the use of cutting edge technologies for all components.
- Linear flow control up to 96% of the total stroke of the valve.
- Cavitation prevention using sophisticate solutions in any condition.
- Advanced solutions for each application.
- Compact, lightweight and economic efficiency design.
- Wide and unique range of production.



## APPLICATION FIELDS



### DRINKING WATER WATER TREATMENT

- Flow control
- Pressure control



### SNOWMAKING

- Pressure control
- Flow control



### INDUSTRY

- Flow control
- Pressure control



### IRRIGATION

- Flow control
- Pressure control
- District Metering Area (DMA)
- Level control



### PRESSURE MANAGEMENT

- Dynamic pressure control
- District Metering Area (DMA)
- District Metering Zone (DMZ)



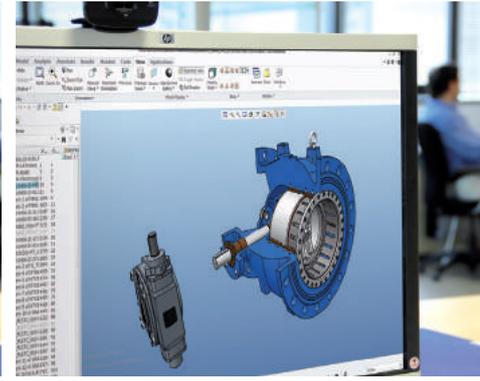
### HYDROPOWER

- By-pass valve
- Turbine control
- Turbine by-pass
- Safety overflow valve
- Pipe burst protection

# NEEDLE VALVES TYPE REGFLUX

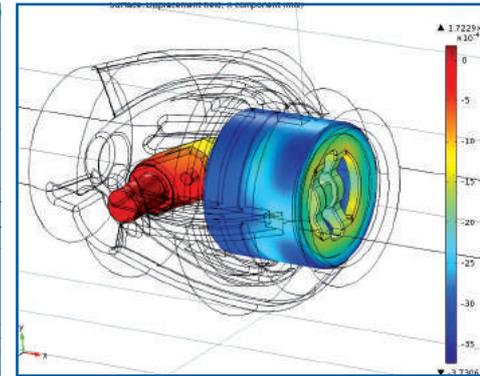
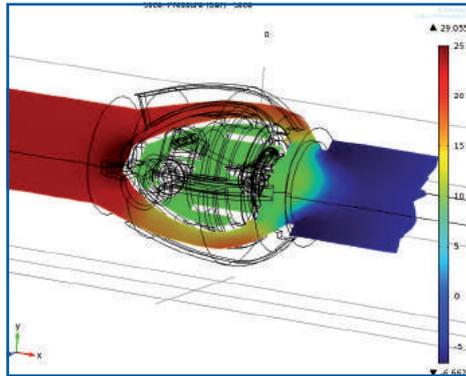
## DESIGN

State of the art design to guarantee a product at the top of the range. Use of the most sophisticated CAD-CAE programs available on the market (SolidWorks, Pro/E).



## KNOW-HOW

Thanks to a new design based on the calculation software COMSOL (FEM + FLUID DYNAMICS), AC.MO S.p.A. has done a big leap from theoretical fluid dynamics design to a simulate fluid dynamic design.



## MANUFACTURING

### HIGH QUALITY MATERIALS

- Casting
- Machining
- Painting
- Assembly

MADE IN ITALY



## QUALITY CONTROL

The quality control is carried out using the most modern equipment, static and dynamic test benches.

The quality parameters are carefully checked by highly qualified staff.



## TRAINING AND TECHNICAL SUPPORT

A highly skilled team of engineers is available for:

- training courses
- pre-post sale support
- technical assistance "on-site"



# NEEDLE VALVES TYPE REGFLUX

## CONFIGURATIONS



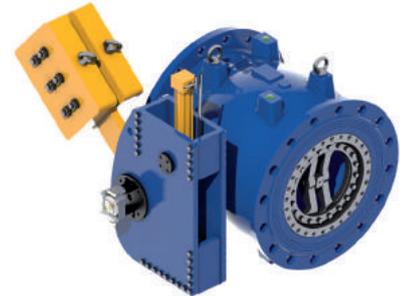
Worm gear box and handwheel



Electric actuator



Hydraulic brake and lift unit



Double acting hydraulic piston



Simple acting hydraulic piston



Double and single acting pneumatic actuator

## A DEDICATED SOFTWARE AND ACCESSORIES FOR SIZING AND PREVENTION OF CAVITATION

### • INTRUSIVE

Dissipating cylinder

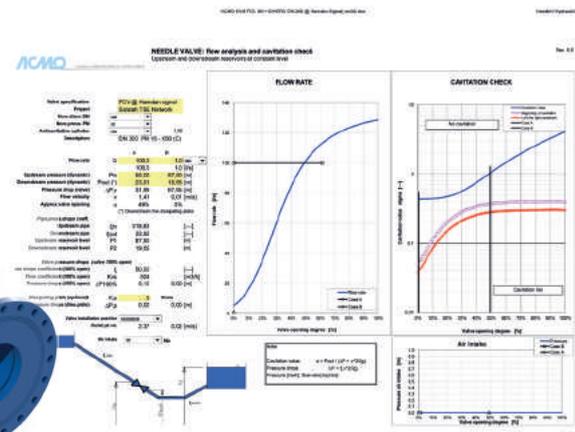


### • NON INTRUSIVE

Dissipating plate



Venting device



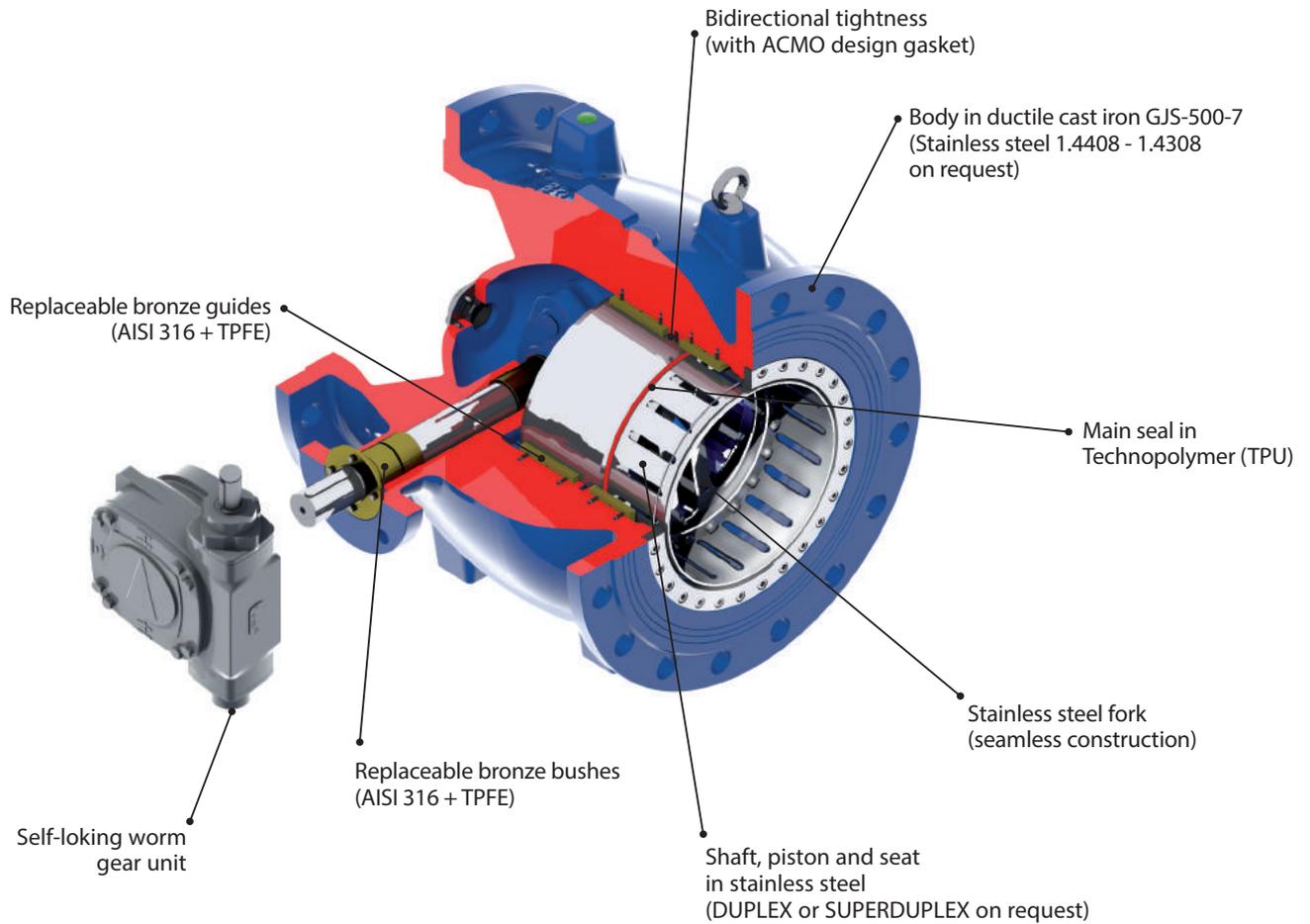
## AC.MO S.p.A. CERTIFICATIONS AND CONSTRUCTION STANDARD

The high quality standards and strict controls during the manufacturing have led to obtain major awards with internationally recognized certification bodies.

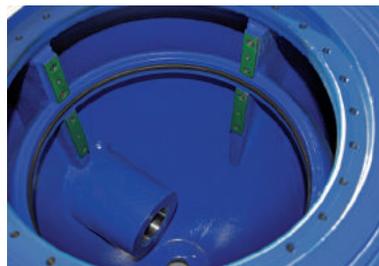


DM 174

“The most reliable solution for control”.



State of the art solutions for a high performance long lasting product.



A special and innovative internal gasket for a perfect and bidirectional seat.

High performance seal, located in no-flow zone, easy replaceable without disassembling the valve from the pipeline.



Compact piston with 4/6 bronze guide strips (replaceable).

One-piece body (L=DN+200 mm) EN 558 S15 (F5).



Heavy duty corrosion protection by FBE epoxy coating 300 microns (500 microns on request).



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