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

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**
- Flow control
- Pressure control

**WATER TREATMENT**
- Flow control
- Pressure control

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

**SNOWMAKING**
- Pressure control
- Flow control

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

**INDUSTRY**
- Flow control
- Pressure control

**HYDROPOWER**
- By-pass valve
- Turbine control
- Turbine by-pass
- Safety overflow valve
- Pipe burst protection
**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.
“The most reliable solution for control”.

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

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

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

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

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

Replaceable bronze guides (AISI 316 + TPFE)

Self-locking worm gear unit

Replaceable bronze bushes (AISI 316 + TPFE)

Shaft, piston and seat in stainless steel (DUPLEX or SUPERDUPLEX on request)

Stainless steel fork (seamless construction)

Main seal in Technopolymer (TPU)

Bidirectional tightness (with ACMO design gasket)

Body in ductile cast iron GJS-500-7 (Stainless steel 1.4408 - 1.4308 on request)

Replaceable bronze bushes (AISI 316 + TPFE)

 Shaft, piston and seat in stainless steel (DUPLEX or SUPERDUPLEX on request)