

# AUTOMATIC CONTROL VALVES "HYDROFLUX" SERIES M



The image is a close-up, high-angle shot of a blue industrial valve assembly. The main body of the valve is painted a vibrant blue. A prominent feature is a circular metal ring with several large, triangular-shaped perforations, which appears to be part of the valve's internal mechanism or a protective guard. The lighting is bright, creating strong highlights and shadows that emphasize the metallic textures and the complex geometry of the components. The background is blurred, focusing attention on the valve's details.

**ACMO**

VALVES AND TECHNOLOGIES FOR WATER WORLD



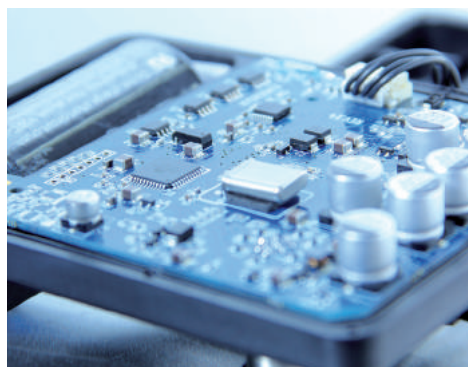
## MAIN FEATURES

- Main body based on the design of a low pressure losses globe valve.  
Class pressure PN16-PN25.  
Entirely made of ductile iron with internal components in stainless steel.  
There diaphragm valves, with pilots and various accessories, are used for an extensive range of applications that include pressure reducing, sustaining, pressure relief, flow control, level control and many other functions.
- Production range  
DN 50 to DN 1000 --> type M-AR900  
DN 50 to DN 800 --> type M-A900
- Pressure classes PN 16 - 25
- Temperature: +1°C +65°C
- Corrosion protection by FBE coating 300 microns, color RAL 5005.  
Potable water approved  
D.M.174 / WRAS / ACS
- Design & Manufacturing according to EN 1074-1, EN 1074-5, EN 1349
- Face-to-face according to EN 558-S1
- Flanges according to EN 1092-1/2 or ANSI B16.5 CL150
- Class A tightness  
According to EN 12266



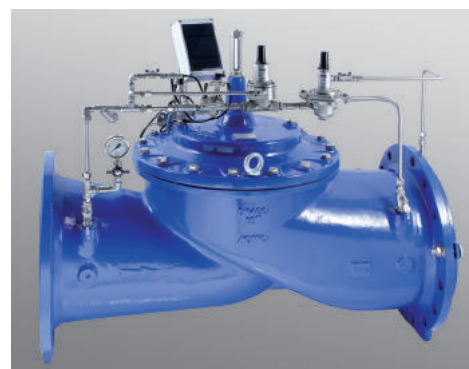
## PILOTS AND INTEGRATED SOLUTIONS

- A full range of stainless steel pilots.
- Integrated solutions for water saving.
- Electronic apparatus and integrated control data transmission (Ultra Low Power technology).
- Internal design and manufacturing of all electronic devices.



## ADVANTAGES

- Latest design.
- Accurate construction by use of cutting edge technologies for all the components.
- Long-Life valves with all internal and moving parts in stainless steel and with high resistance Epoxy FBE coating protection.
- Designed to optimize the flow with a very low pressure losses.
- Perfectly interfaced with any SCADA System.
- A full range pilots and solutions for any need.
- A smart system for a high performance "pressure management systems".



## APPLICATION FIELDS



**DRINKING WATER  
WATER TREATMENT**



**IRRIGATION**



**PRESSURE  
MANAGEMENT**



**INDUSTRY**



**HYDROPOWER  
DAMS**



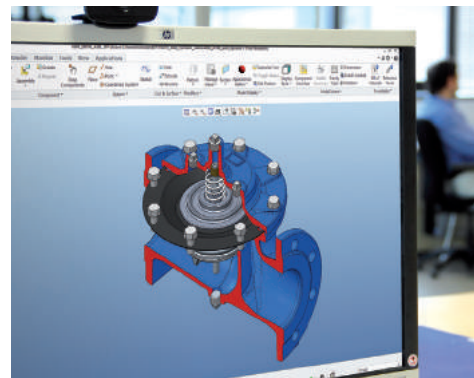
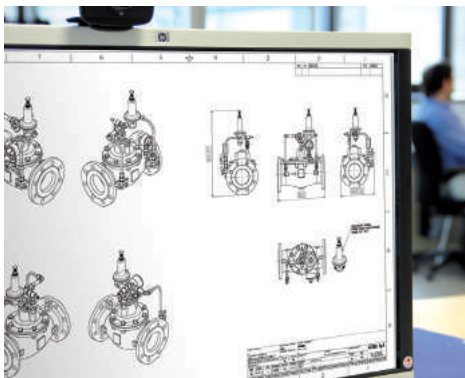
**FIRE  
PROTECTION**



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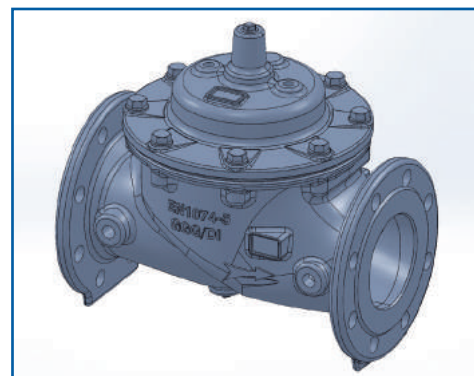
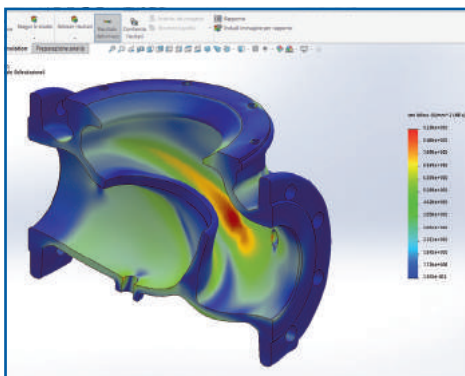
## DESIGN

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.

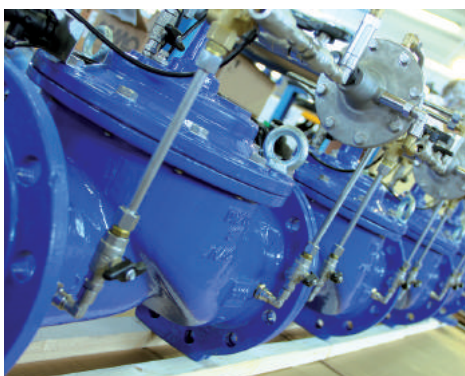


## MANUFACTURING

### 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.

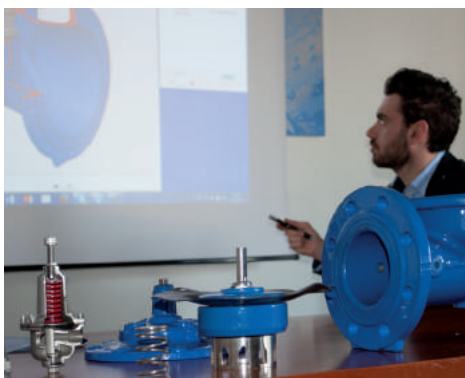
The quality parameters are carefully checked by highly qualified staff.



## TRAINING AND TECHNICAL SUPPORT

A highly skilled team of engineers is available for:

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

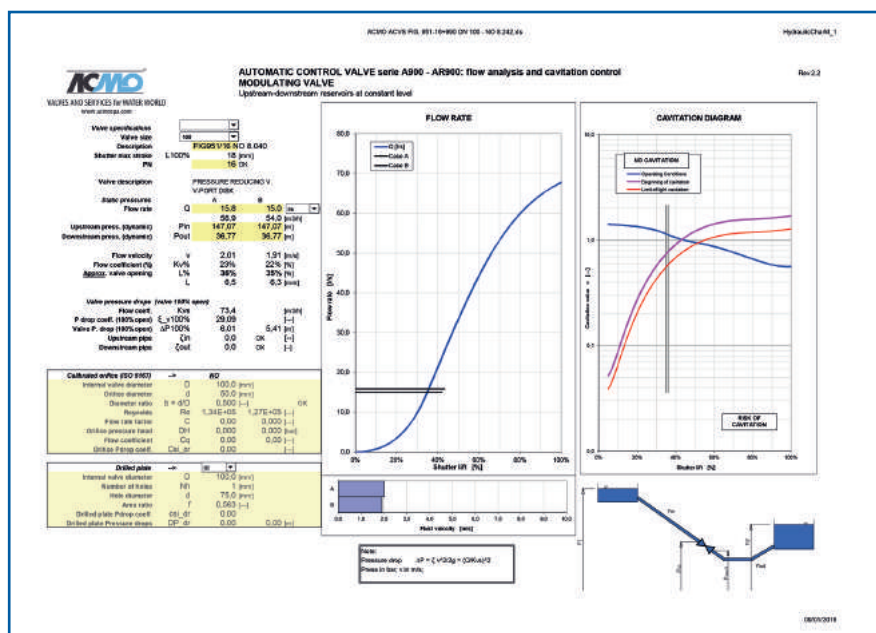
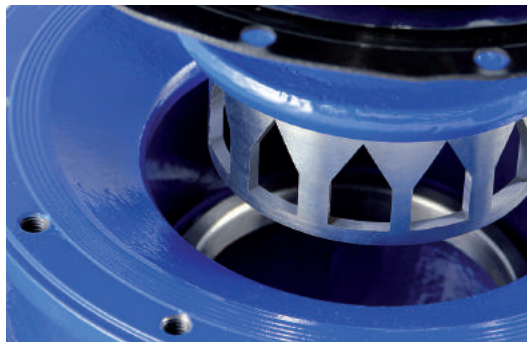




# AUTOMATIC CONTROL VALVES "HYDROFLUX" SERIES M

## A DEDICATED SOFTWARE FOR SIZING AND PREVENTION OF CAVITATION

A dedicated software is used for the correct sizing of each valve based on the real hydraulic characteristics of the plant. Simultaneously the analysis of cavitation ensures the efficiency of our equipment.



## MAIN FUNCTIONS



### DRINKING WATER WATER TREATMENT

- Pressure control
- Flow control
- Level control
- Solenoid controlled
- Pressure relief
- Surge anticipator
- Bursts control
- Multiple functions



### IRRIGATION

- Pressure control
- Flow control
- Level control
- Solenoid controlled
- Pressure relief
- Pump control
- Non return
- Prepayment system
- Multiple functions



### PRESSURE MANAGEMENT

- Dynamic pressure control
- SCADA controller
- Controller



### INDUSTRY

- Pressure control
- Flow control
- Level control
- Solenoid controlled
- Pump control
- Multiple functions



### HYDROPOWER DAMS

- Pressure control
- Pressure relief
- Solenoid controlled



### FIRE PROTECTION

- Pressure control
- Deluge valves

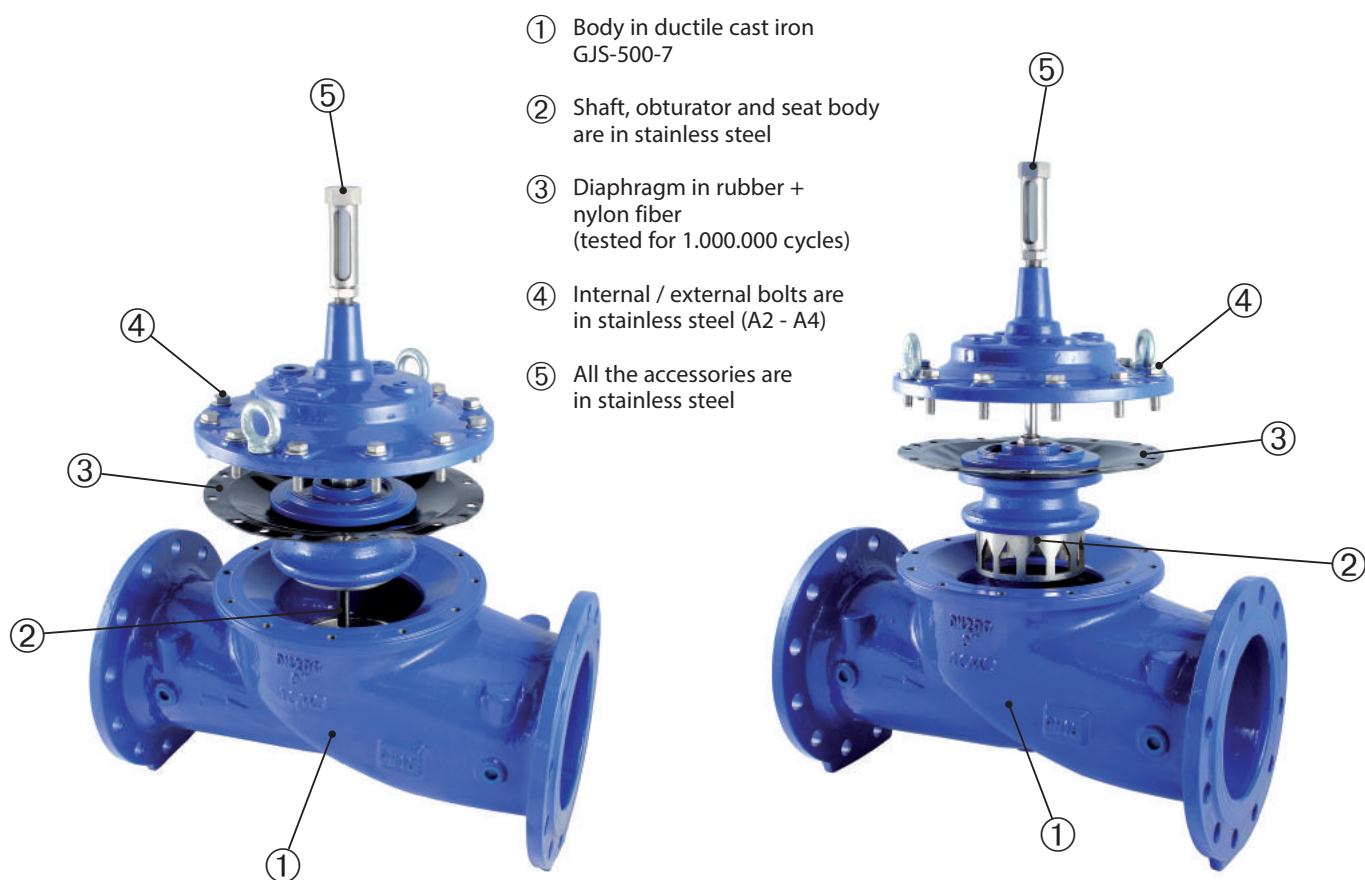
## AC.MO S.p.A. CERTIFICATIONS AND CONSTRUCTION STANDARD

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



DM 174

"A modern, reliable and complete product".

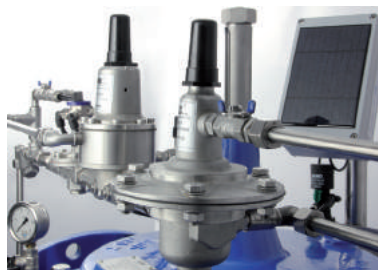


Solutions at the top for high performance product and long lasting valve.

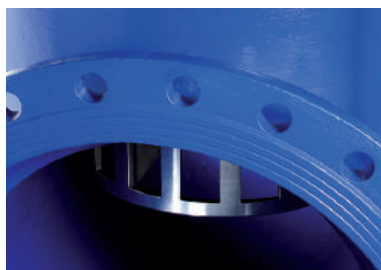


Heavy duty corrosion protection by FBE epoxy coating 300 microns (500 microns on request).

Replaceable seat in stainless steel.



ACMO SMART VALVES able to interface with SCADA SYSTEM and with a modern "stand alone" electronic system for a high quality and reliable "Pressure Manager" system.





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