

PENSTOCK VALVES

Penstock valves are used in hydraulic installation such as dams, spillway, canals, Water treatment stations, amongst others.

Fucoli-Somepal has penstock valve suitable for drinking water or wastewater/sewage system in range of diameters from DN 100 to DN 1200, with circular or square opening.

This valve consists in a body ready to be installed in a vertical wall, an obturator which moves vertically and an exterior threaded stem. Various control options are available such manual or motorized.

The stem, the obturator seat and the body seat are made in AISI 303 stainless steel, for drinking water networks and AISI 316L for residual water, thus guaranteeing high levels of resistance to corrosion and consequently longer useful life.

This valve can be manually operated, with reduction gearbox, pneumatic cylinder or electric actuator.



Fucoli Somepal
FUNDIÇÃO DE FERRO, S.A.

SEIT
SINCE 1946



**Various
valves**



CONTROL OF THE ENTIRE PRODUCTION PROCESS

The two Fucoli-Somepal factories are located in Portugal, where is controlled the entire production process ensuring a constant quality of its products. The selection of raw materials sources is rigorous and careful. All raw materials before received are analyzed in our laboratory.

Using a modern automatic pouring system, all products are manufactured in ductile cast iron EN-GJS-500-7. (GGG50).

The mechanization of the products is carried out using the latest CNC Machining technologies.

CORROSION PROTECTION

All products has an internal and external excellent corrosion protection. The coating quality is controlled according to the requirements of DIN 30677 and GSK (RAL-GZ662).

Fucoli-Somepal has three coating systems - robotic, automatic and semi-automatic - which is electrostatically applied epoxy coating with a minimum thickness of 250µm.

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BALANCED FLOAT VALVES

The float valve designed by Fucoli-Somepal provides a constant level in the reservoir/tank. Is a angle valve automatic and externally controlled by a float for tanks level control.

Suitable for use in water distribution, water treatment, power plants and in industry.

This valve can be used on the feed either in a high position, or a submerged position.

It operates the closure of the water supply once the high level is achieved.

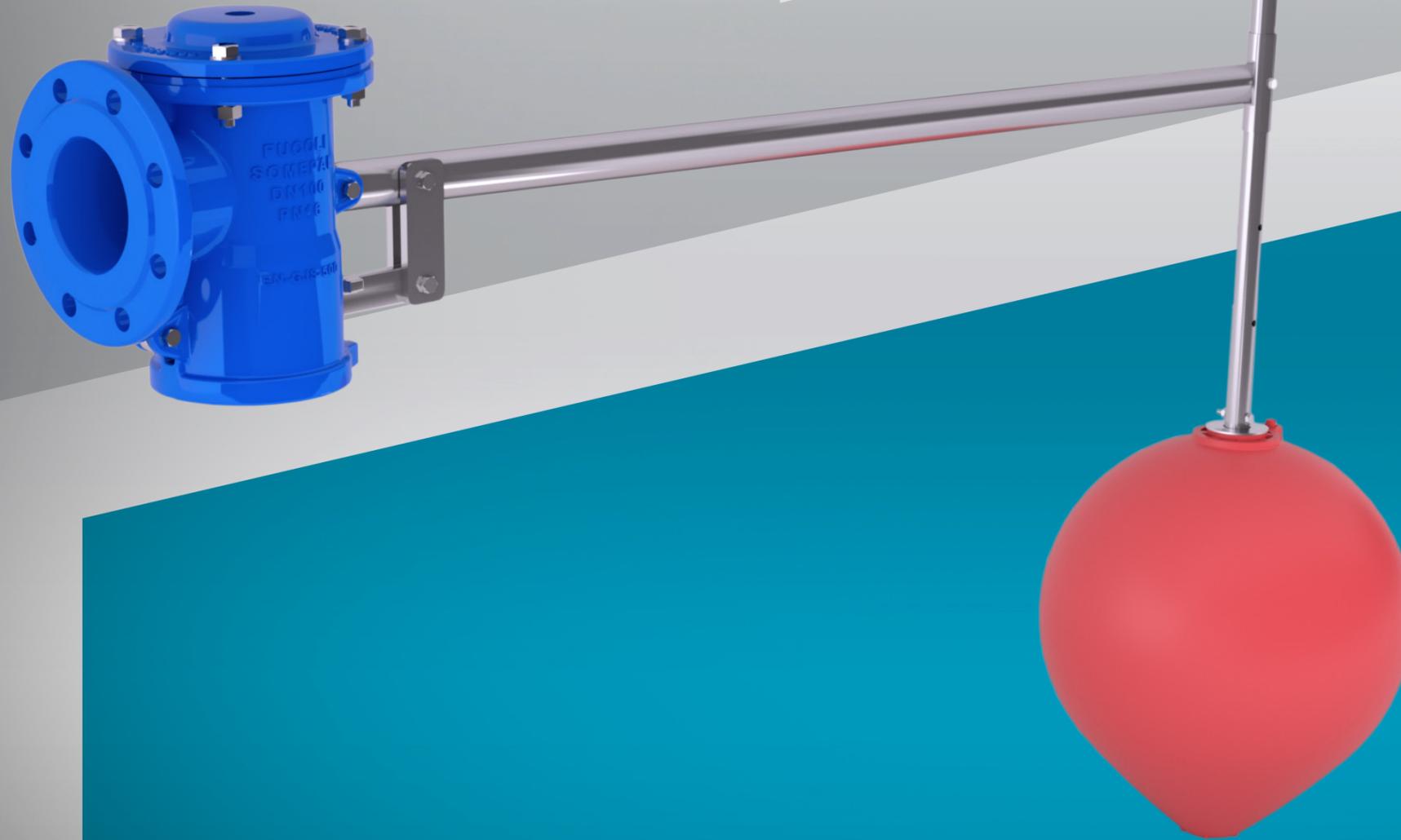
Due to its gradual opening and closing actions, depending on the level of water in the tank, the float valve prevents water hammer in the pipeline.

The Fucoli-Somepal Float Valve is available with nominal diameters range from DN 50 to DN 250 and pressure rating range from PN10 to PN16.

This valve has a body, bonnet and piston in ductile cast iron EN-GJS-500-7 (GGG50) epoxy coated with 250 microns minimum thickness and is available with a PVC or stainless steel float.

Advantages

- Rubber/metal sealing;
- Automatic actuated by float;
- Simple and robust valve with low maintenance needs;
- Prevents water hammer.



FLAP VALVE SERIES MOON

Fucoli-Somepal developed the flap valves series MOON.

This valve is to be installed on a wall or on the end of a flanged pipe to allow the flow of water out of the pipe/reservoir, but prevent anything from flowing back in, such as back flow water, sticks, leaves or other debris. Under direct pressure the valve will open, and it will close automatically when the pressure from outfall fluid is relieved.

The Flap valve series MOON is suitable for use in drinking water, wastewater/sewage or sea water and is available with and without counterweight and with flange drilling according EN 1092-2 from PN10 to PN25.



The valve has a body and bonnet in ductile cast iron EN-GJS-500-7 (GGG50) epoxy coated with 250 microns minimum thickness. The bonnet has a groove designed to fit a rubber sealing in EPDM (for water systems) or in NBR (for wastewater/sewage systems).

The sealing system of the flap valve Series MOON is a rubber/metal sealing and has a 8° sloping seat, to assure that flap bonnet returns to its position, closing automatically when the pressure from outfall fluid is relieved, making sufficient pressure to block the fluid back flow in the opposite direction.

various valves