



Float valve with balanced single seat Mod. ATHENA 1"- 1 1/4"

In order to offer a reliable solution for regulation and control of small tanks, CSA has designed the new float valve Mod. ATHENA 1"-1 1/4" PN 16. Thanks to its exclusive technology, with upstream pressure balanced single seat, and the new patented self cleaning piston technology, this valve brings the concept of reliability and performance to the highest standards.



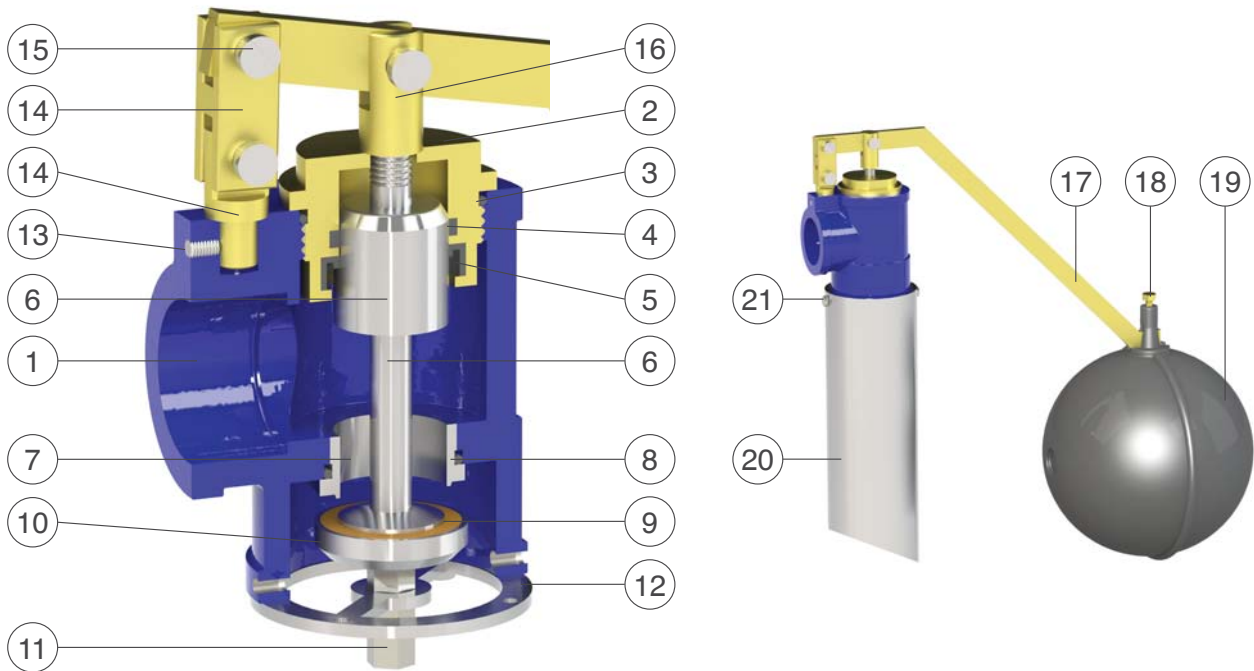
Technical features and benefits

- Body in GJS 500-7 PN 16.
- Cover in brass provided with the self cleaning piston technology driving system.
- Mobile block containing the piston and obturator, both in stainless steel.
- The lever mechanism is made in Fe42 tropicalized or stainless steel and composed of a rod which, thanks to a system of pivots, puts the main shaft in communication with the float allowing the opening or closing of the valve
- Designed for angle pattern installation only and to allow flow conveyance through the outlet.
- Thanks to the balanced single seat the valve will perform with high sensitivity, perfect water tightness even with low pressure values.
- The movements of the obturator during opening and closing are not affected by the incoming water pressure, meaning that transient effects are avoided.
- Pipe (available on request) Ø 76,1X1,5 mm in stainless steel to convey the flow in the tank.

Applications

- Water distribution systems.
- Fire protection storage tanks.
- Irrigation systems.
- Whenever the constant level regulation and control function is required.

Technical details



N.	Component	Material	Standard
1	Body	ductile cast iron	GJS 500-7
2	Cap	brass/stainless steel	OT 58/AISI 304/316
3	O-ring	NBR/EPDM	
4	Guiding ring	PTFE	
5	Gasket	NBR/EPDM	
6	Piston	stainless steel	AISI 304/316
7	Seat	stainless steel	AISI 304/316
8	O-ring	NBR/EPDM	
9	Plane gasket	NBR/polyurethane	
10	Obturator	stainless steel	AISI 304/316
11	Tightening nut	stainless steel	AISI 304/316
12	Lower guiding ring	stainless steel	AISI 304/316
13	Plug	stainless steel	A2/A4/AISI 316
14	Upper and lower coupling	steel/stainless steel	Fe 37 double galvanized/AISI 316
15	Pivot	stainless steel	AISI 304
16	Shaft coupling	steel/stainless steel	Fe 37 double galvanized/AISI 316
17	Float lever	steel/stainless steel	Fe 37 double galvanized/AISI 316
18	Screw	steel/stainless steel	Fe 37 double galvanized/AISI 316
19	Float	polyethylene	
20	Conveying pipe (optional)	stainless steel	AISI 304
21	Screws (optional)	stainless steel	A2/A4/AISI 316

Working conditions and head loss

Maximum temperature 70°C.

Maximum pressure PN 16.

To avoid cavitation, max. Δp across the valve should be limited to 8 bar.

The K_v of the valve, meaning the flow rate expressed in m^3/h producing a head loss of 1 bar, is 12,6.

Standard

Designed in compliance with EN-1074/4 .

Threaded connections according to ISO standard.

Epoxy painting applied through fluidized bed technology blue RAL 5005.

