



# Full bore anti-surge wastewater combination air valve in stainless steel - Mod. CYCLOPS

The model guarantees the proper operation and safety of pressurized sewage systems allowing the release of air pockets in working conditions and the entrance of large quantities of air, in case of pipe bursting or draining phases. The air discharge velocity is maintained within a safety level by means of a anti-surge mechanism to prevent water hammer.



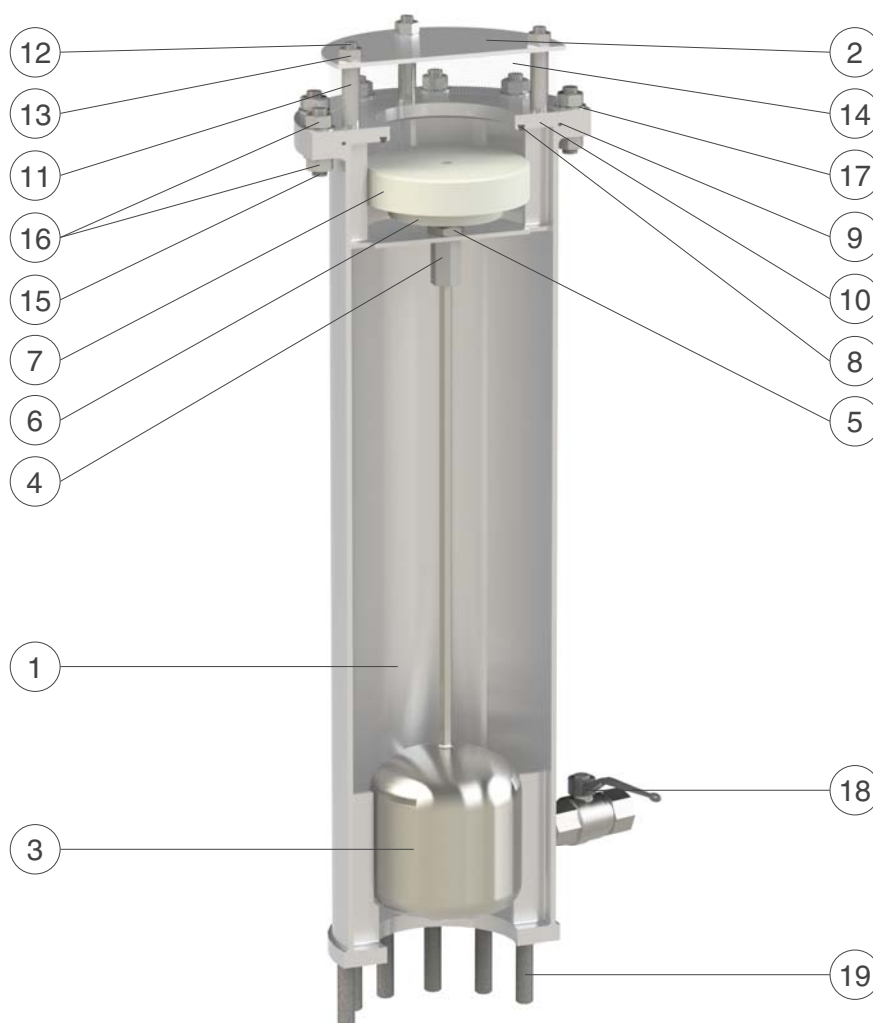
## Technical features and benefits

- Long full bore body entirely made in stainless steel, containing four ribs to guide the float.
- Mobile block including a large AISI 316 stainless steel float connected through a stainless steel rod to the air release system.
- Drainage valve for chamber control and draining.
- RFP (rapid filling preventer) anti-surge automatism of CSA composed of two flats in solid polypropylene, where the upper one will be automatically lifted in case of excessive air outflow, reducing the water approach velocity and avoiding potential water hammer events.
- Nozzle and gasket holder (patent pending) wear resistant thanks to gasket compression control.
- Maintenance can be easily performed from the top without removing the air valve from the pipe.

## Applications

- Sewage main transmission lines.
- Treatment plants.
- Irrigation systems in presence of solids/debris in suspension.
- Whenever the technology of air valves for treated water can't be used, for the risk of clogging and damages to the internal components, and the proper protection of the system has to be provided.

## Technical details



N.	Component	Standard material	Optional
1	Body with flange	stainless steel AISI 316	s.s. Duplex/Super Dupl.
2	Cap	stainless steel AISI 304	stainless steel AISI 316
3	Float with rod	stainless steel AISI 303	
4	Driving sleeve	stainless steel AISI 303	stainless steel AISI 316
5	Nut	stainless steel AISI 304	stainless steel AISI 316
6	Obturator flat with nozzle subset	polypropylene and stainless steel AISI 316	
7	Anti-surge (RFP) flat	polypropylene	
8	Seat gasket	NBR	EPDM/Viton/silicone
9	O-ring	NBR	EPDM/Viton/silicone
10	Seat	stainless steel AISI 316	s.s. Duplex/Super Dupl.
11	Spacers	stainless steel AISI 304	stainless steel AISI 316
12	Studs	stainless steel AISI 304	stainless steel AISI 316
13	Nuts	stainless steel AISI 304	stainless steel AISI 316
14	Screen	stainless steel AISI 304	
15	Studs	stainless steel AISI 304	stainless steel AISI 316
16	Nuts	stainless steel AISI 304	stainless steel AISI 316
17	Washers	stainless steel AISI 304	stainless steel AISI 316
18	Drainage ball valve	stainless steel AISI 316	
19	Studs	stainless steel AISI 304	stainless steel AISI 316

The list of materials and components is subject to changes without notice.