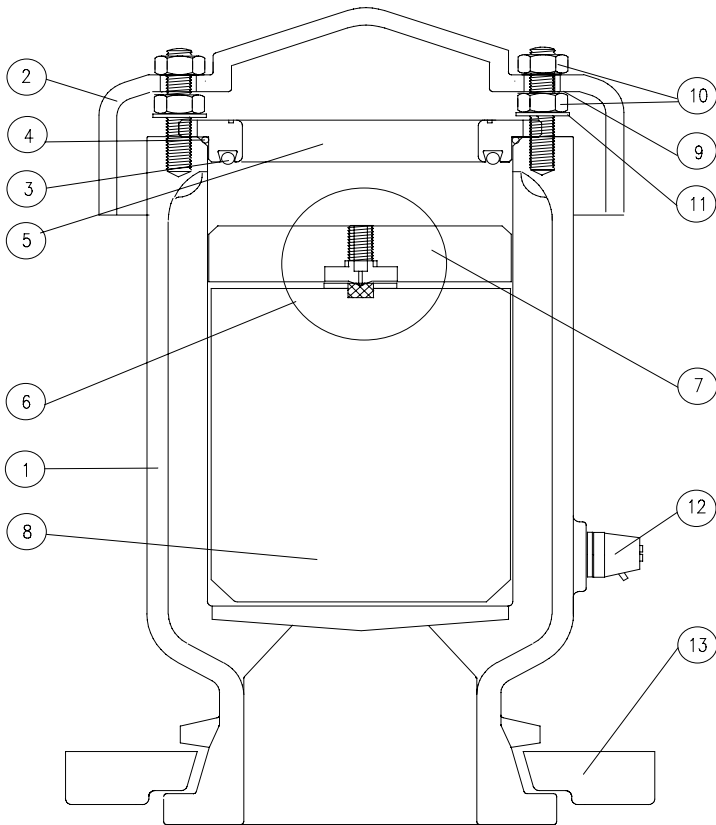


Maintenance, set up and installation instructions

Air vent for aqueducts - Mod. "FOX - 3 functions" - DN 125-150-200



POS.	DESCRIZIONE	MATERIALE
1	Body	GS400-12
2	Cap	GS400-12
3	O-ring	NBR
4	O-ring	NBR
5	Seat	Bronze
6	Nozzle subset	
a	Nozzle	Brass
b	Gasket holder	Brass
c	Gasket	Silicone
d	O-Ring	NBR
e	Bolts M3	Stainless steel
f	Washer M3	Stainless steel
7	Upper wedge	Polipropilene
8	Float	Polipropilene
9	Studs	Zinc. steel/A2
10	Bolts	Zinc. steel/A2
11	Washers	Zinc. steel/A2
12	Discharge cock 3/8	Nichel. brass
13	Mobile flange	GS400-12
Mobile block spare parts 3-4-6-7-8		

Installation

Before installing the air valve it is necessary make sure that all the pipes of the system are properly cleaned to avoid that rubbles or debris could damage its internal part.

Make sure the pit is large enough and easy to access to carry out inspection procedures, it will be provided with a drain for maintenance. The air valve must be placed in a vertical position on a Te piece and separated by the main pipe by a gate valve.

The pipe must be filled with a max velocity of 1 m/sec, in particular during the final phase we have to pay attention slowing down the incoming water because its abrupt stop could cause high overpressures likely to damage the entire hydraulic system.

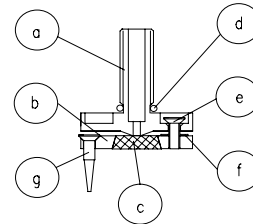
Maintenance

The air valve design is quite simple and sturdy and for that it doesn't need a particular maintenance, we strongly recommend though to check it regularly at least twice per year. All our air valves are equipped with a drainage cock (12) to relief the pressure during maintenance. Operated by a screw-driver, it will indicate us the perfect functioning of the product allowing the exit of water when opened, in case of air coming out there will be some problems that need to be solved. To do so it is mandatory to close the gate valve positioned below, and relief the pressure through the drainage cock. Now proceed operating on the internal components, easy to be replaced from above, as follows:

- Unscrew the nuts (10) on the, pull out the cover (2), loosen the nuts underneath (10) and pull out the washers (11);
- Extract the sealing seat(5) and make sure that the lateral o-ring (4) and the one on the upper flat (3) are not ruined.
- Open the gate valve just a little bit to let the water enter the air vent pushing up the internal mobile block (6-7-8) to pull it out .
- Loosen the upper flat (7) from the nozzle cleaning it up
- Clean the float (8) and act on the air releasing device as explained below.

To reassemble the air vent simply proceed backwards

How to service the air releasing device "nozzle - gasket holder"



Put the float on a rigid surface and proceed as follows using the picture above :

- Loosen the three M4 (e);
- Pull out and clean the three washers (f) underneath;
- Clean the nozzle (a), if necessary using a strip of sand paper, and check the o-ring (d) washing it as well;
- Check the gasket (c) status and clean it, replacing it if necessary. If so loosen the three screws (g) and extract the gasket holder (b) out of its seal, then replace it making sure that the larger part lays on the float surface.

To reassemble it simply follow the instructions below:

- Screw the gasket holder (b), the gasket inside of it, inside the float's receptacle and tight the three screws properly.
- Position the three washers in ss on the basket holder corresponding holes. Now put the nozzle with its o-ring (d) to make its holes match with the gasket holder's ones.
- Screw the three M4 (e) with a little bit of LOCTITE 50 until they reach the float's surface, and make sure their flat tip don't stretch out of the nozzle when it is squeezed on the gasket holder.
- Try to lift the nozzle manually and make sure it comes up without any friction, doing that check for a minimum lift of 2mm. Should you need any spare parts please refer to the legend.

Working conditions

Max temperature : 70°C
 Max internal pressure : 40 bar
 Minimum internal pressure : 0.5 bar