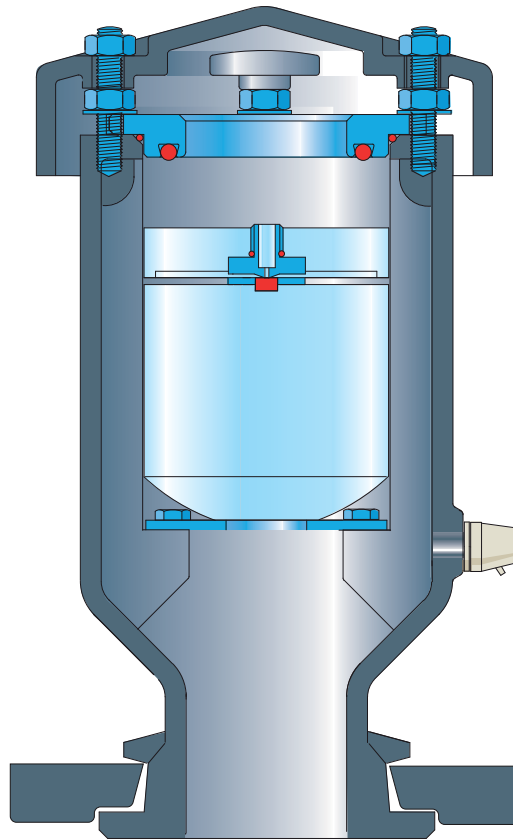


Water combination Air-valve

Typ FOX 3F-C

The air valve will ensure the proper operation of the pipeline network allowing the release of the air pockets during working conditions, the evacuation and the entrance of large volumes of air during filling and draining operations.



Construction and advantages

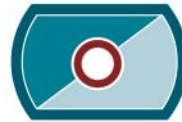
- **Body in ductile cast iron** provided with internal ribs for consistent and accurate assembly guiding, **NP 40**.
- Supplied with **fixed** or **mobile flanges** drilled according to ISO standard (other drillings on request) PN 10/16/25/40.
- **Drainage valve** for chamber control and draining.
- **Mobile block** group formed by a full polypropylene cylindrical float (**) and an upper disk in Polypropylene.
- Nozzle and gasket holder (pat. pending) wear resistant thanks to **gasket compression control**.
- **Maintenance** can be easily performed from the top without removing the air valve from the pipe.
- ***Cap** in ductile cast iron.

Operating principle

- 1) Discharge of large volumes of air**
During pipe filling it is necessary to discharge as much air as water flows in.
- 2) Entrance of large volumes of air**
During pipeline draining or bursting phases it is necessary to bring in as much air as the quantity of out-flowing water to avoid vacuum conditions.
- 3) Air release during working conditions.**
During operation, an air pocket is accumulated in the upper part of the valve, little by little it is compressed and its pressure arrives to water pressure, its volume increases pushing water downwards. Following Archimede's principle the float, no longer sustained by water thrust, will drop freeing the nozzle hole helping the release of the air pocket, while the upper disk closes the main orifice due to internal pressure.

For air flow performances of FOX 3F-C please refer to the chart depicted on the next page.

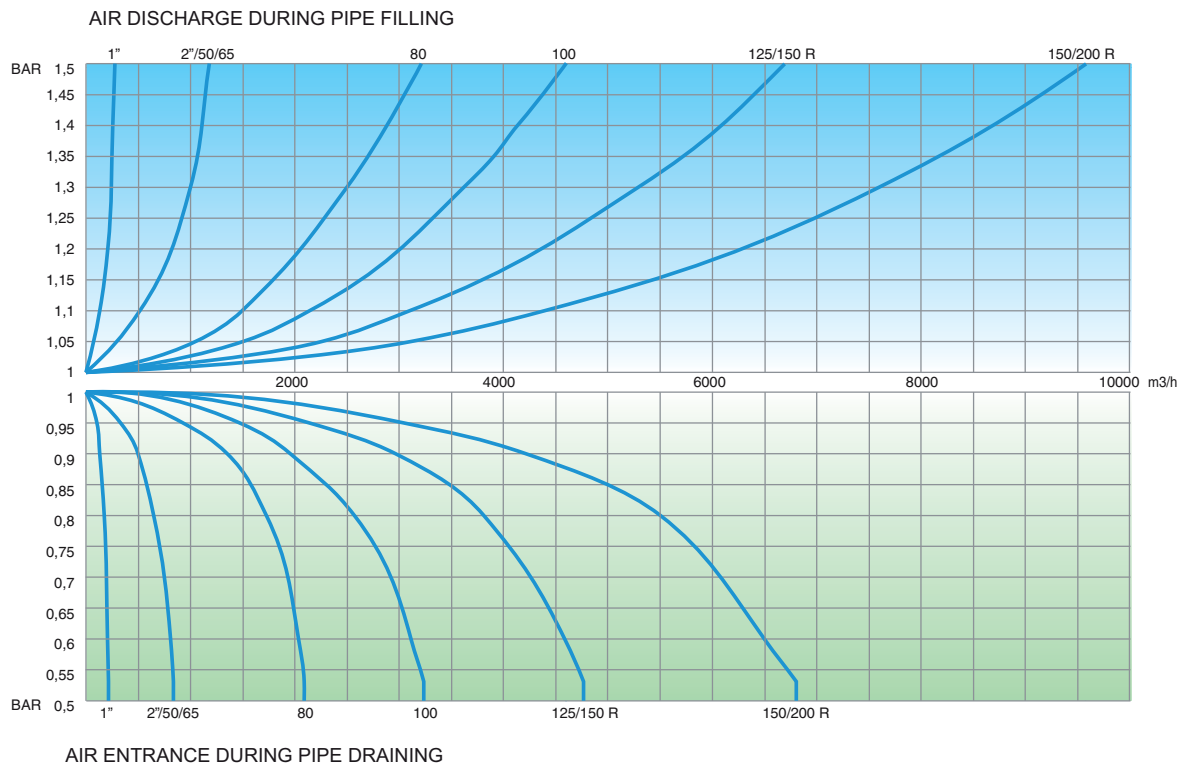
(**) Full polypropylene cylindrical floats to avoid deforming phenomena at high pressure and lathe shaped to guarantee:
 a) a greater sliding precision inside the body processed ribs;
 b) a perfect vertical thrust;



Water combination Air-valve

Typ FOX 3F-C

Air flow performance charts.



Working conditions

Potable water 60°C;
 Maximum pressure 40bar
 Minimum pressure 0.3 bar

Technical features

Body, cover and flange

GJS 500-7 epoxy powder coated
 using fluidized bed technology

Seat in stainless steel

Upper flat in polypropylene

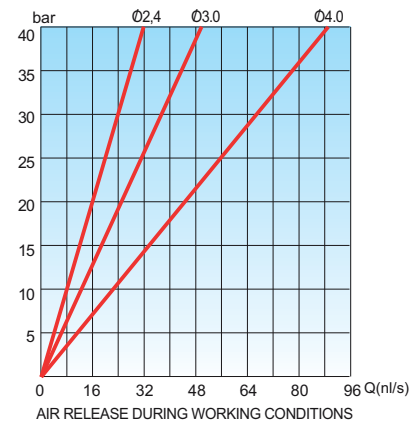
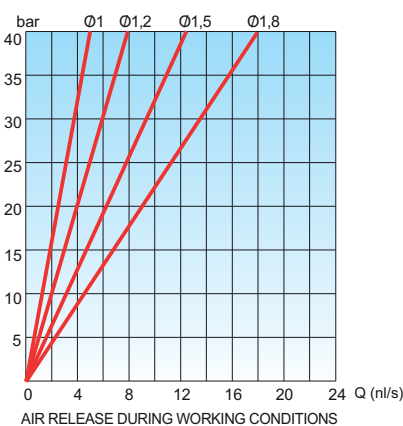
Nozzle in stainless steel

Float in polypropylene

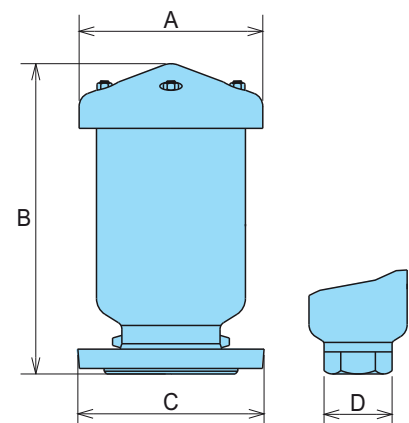
Nuts and bolts in stainless steel

Gaskets in NBR

Drainage valve in stainless steel



EXECUTION	A	B	C (M.F.)*	C (F.F.)*	D	Weight Kg.
Threaded 1"	113	205	=	=	CH45	3,2
Threaded 2"	142	260	=	=	CH75	6,2
Flanged 50	142	275	165	165	=	8,6
Flanged 65	142	275	185	185	=	9,0
Flanged 80	174	300	200	205	=	12,4
Flanged 100	217	350	220	235	=	19,7
Flanged 125	267	425	250	=	=	33,0
Flanged 150R	267	425	285	300	=	36,0
Flanged 150	325	490	285	300	=	56,0
Flanged 200R	325	490	340	375	=	58,0



* M.F. = mobile flanges version

* F.F. = fixed flanges version