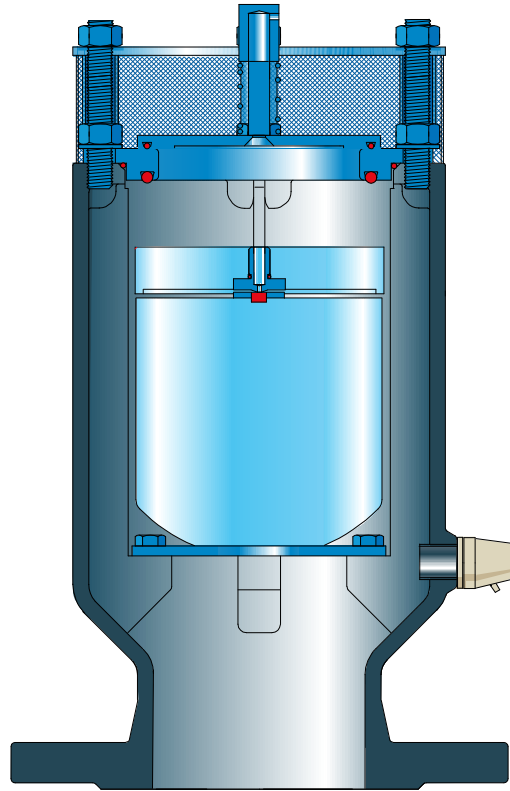




# Exit only water combination air valve Mod. FOX 3F - EO

The air valve will ensure the proper operation of the pipeline networks allowing the release of the air pockets during working conditions and the evacuation of large volumes of air in case of filling 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) NP 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.
- **Mesh and cap** in stainless steel

## Operating principle

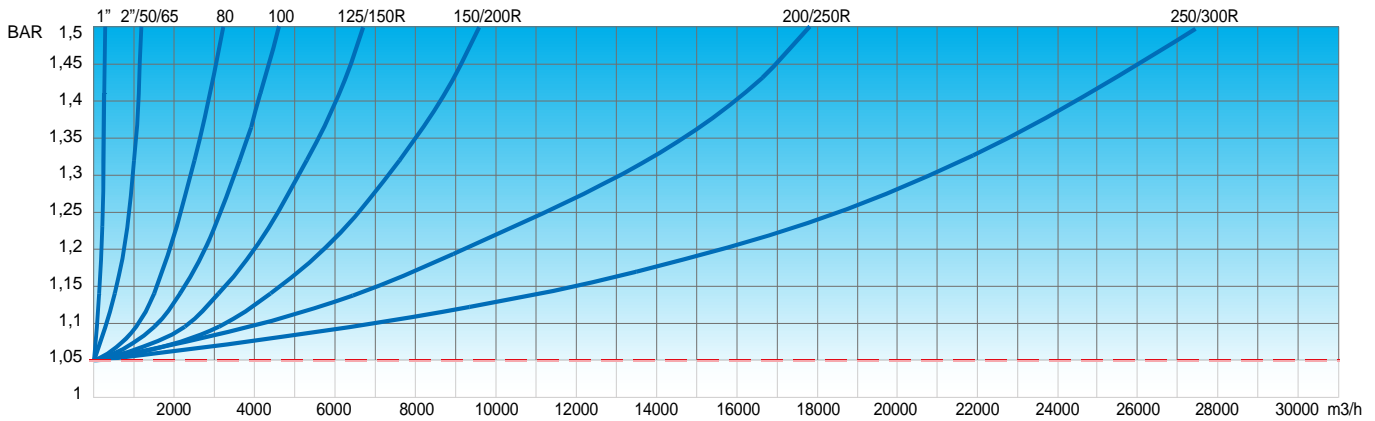
During pipe filling it is necessary to discharge as much air as water flows in. FOX 3F-EO will make sure to perform this task allowing the release **during working conditions**. During operation, an air pocket is accumulated in the upper part of the valve, little by little it is compressed and its pressure arrives to water pressure, its volume increases pushing water downwards. Following Archimede's principle the float, no longer sustained by water thrust, will fall down to free the nozzle hole helping the release of the air pocket, while the upper disk will close the main orifice due to internal pressure. FOX 3F-EO will avoid the air entrance thanks to a special system, composed of a spring, flat and o-ring, whose high sensitivity and accuracy allows the air discharge with a DP across the valve between 0,03 and 0,05 bar.

For air flow performances of FOX 3F-EO 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 perfectly vertical thrust;

## Air flow performance charts.

AIR DISCHARGE DURING PIPE FILLING

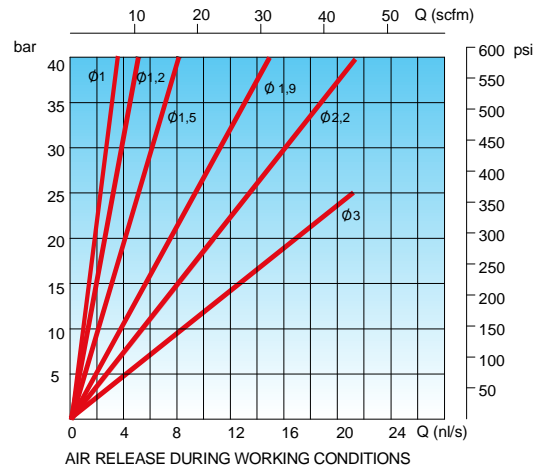


### Working conditions

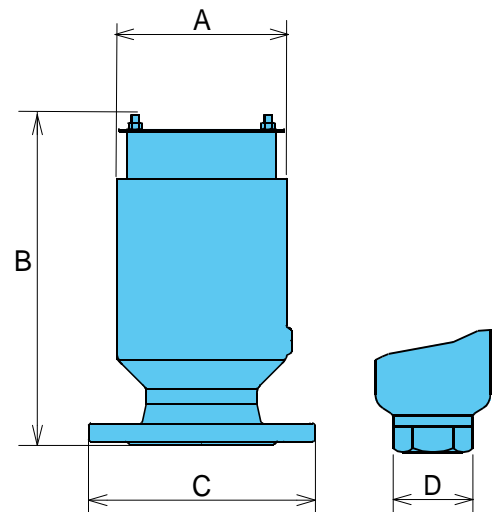
Potable water 60°C/158 °F Max; Maximum pressure 40 bar/580 psi;  
 Minimum pressure 0.3 bar/4.35 psi  
 On request minimum pressure of 0,15 bar with the high sensitivity low pressure version

### Technical features

**Body and flanges** in GS 400-15 epoxy powder coated using fluidized bed technology  
**Cap and mesh** in stainless steel  
**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.  
**Spring** in stainless steel.  
**Flat** in stainless steel / brass.



EXECUTION	A	B	C (M.F.)*	C (F.F.)*	D	Weight Kg.
Threaded 1"	93	217	=	=	CH45	3,3
Threaded 2"	118	277	=	=	CH75	6,1
Flanged 50	118	290	165	165	=	8,1
Flanged 65	118	290	185	185	=	8,6
Flanged 80	142	322	200	205	=	11,1
Flanged 100	180	364	220	235	=	18,5
Flanged 150R	218	435	285	300	=	34,5
Flanged 150	261	500	285	300	=	49,0
Flanged 200R	261	500	340	375	=	51,0
Flanged 200	333	574	340	375	=	94,0
Flanged 250R	333	574	=	400	=	102,0
Flanged 250	414	735	=	450	=	121,0
Flanged 300R	414	735	=	455	=	127,0



\* M.F. = mobile flanges version

\* F.F. = fixed flanges version