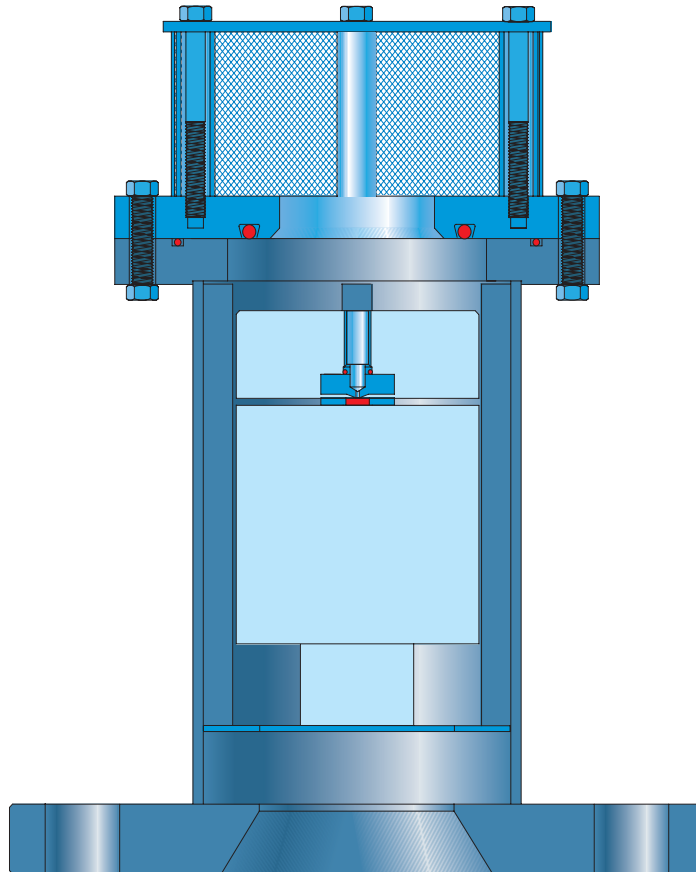


Water combination air valve class PN 64 Mod.FOX 3F - HP

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 electro welded steel** provided with internal ribs for consistent and accurate assembly guiding,
- Supplied with flanges in carbon steel PN 16/25/40/64.
- **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

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.

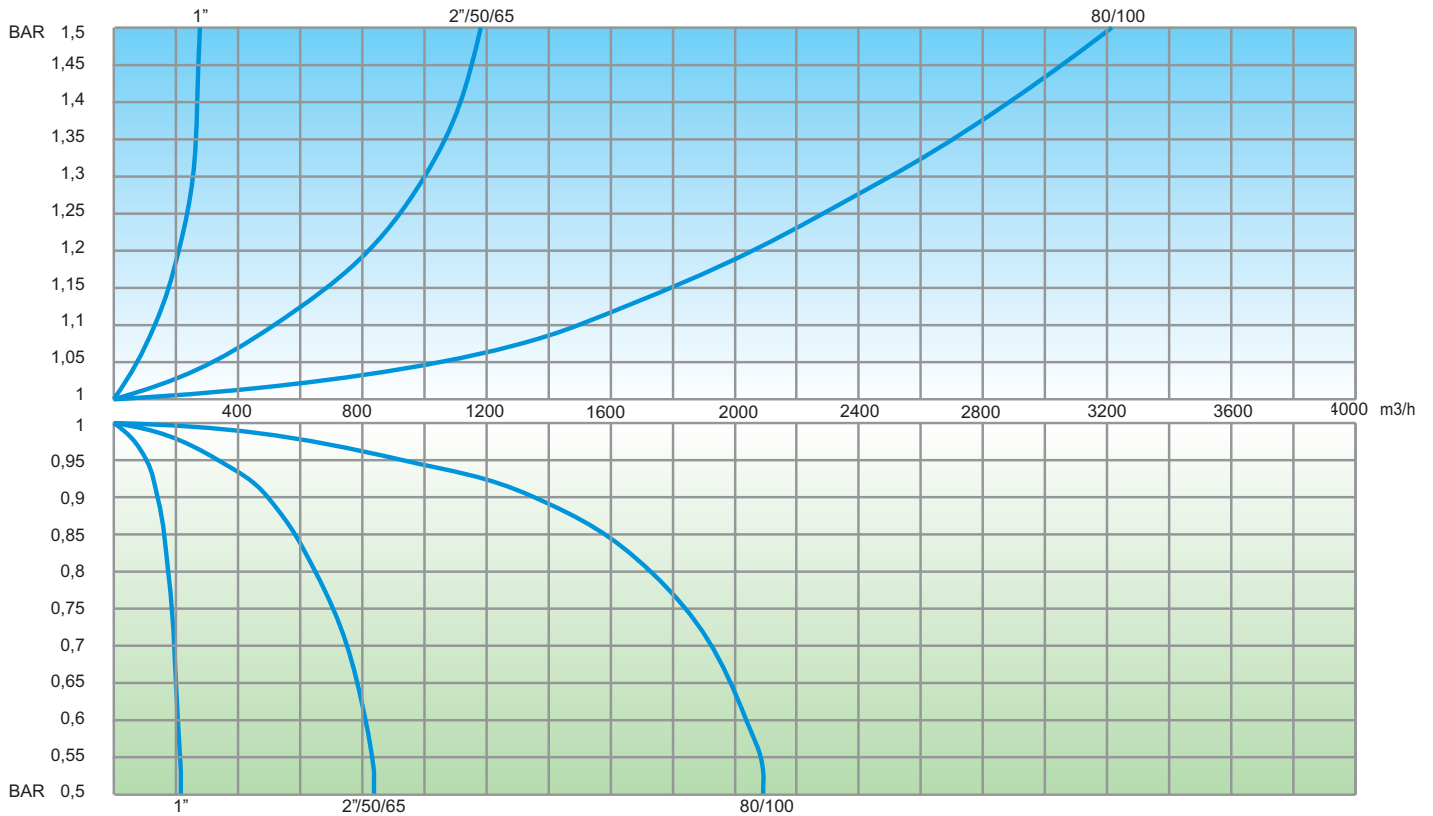
During operation, an air pocket is accumulated in the upper part of the valve, little by little it is compressed and its pressure arrives to water pressure, its volume increases pushing water downwards. Following Archimede's principle the float, no longer sustained by water thrust, will drop freeing 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-HP 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



AIR ENTRANCE DURING PIPE DRAINING

Working conditions

Potable water 70°C Max; Maximum pressure 64bar;
Minimum pressure 0,2 bar (**lower on request**)

Technical features

Body and flange

Electro welded steel epoxy powder coated using fluidized bed technology

Mesh and cap in stainless steel

Seat in stainless steel

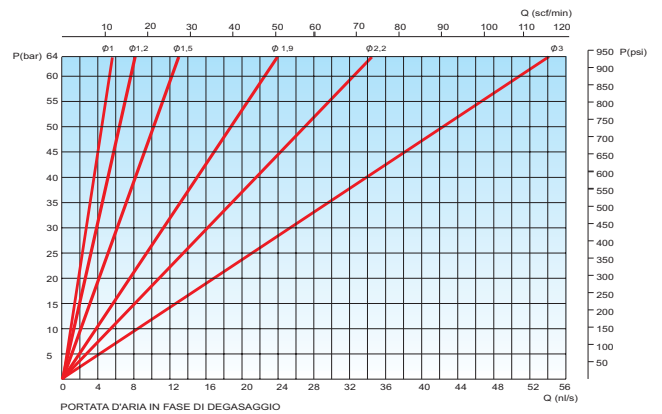
Upper flat in polypropylene

Nozzle in stainless steel

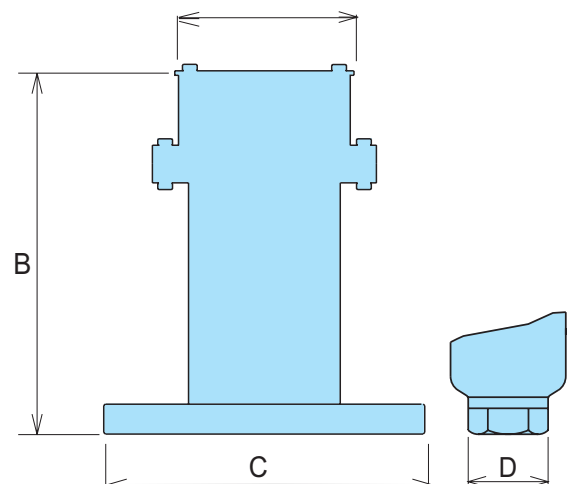
Float in polypropylene

Nuts and bolts in stainless steel

Gaskets in NBR



A



EXECUTION	A	B	C	D	Weight Kg
Filettata 1"	165	240	=	CH45	4,2
Filettata 2"	165	240	=	CH75	5,0
Flangiata 50	165	240	40	=	6,0
Flangiata 65	185	240	40	=	6,0
Flangiata 80	200	265	50	=	9,2
Flangiata 100	235	334	50	=	13,0