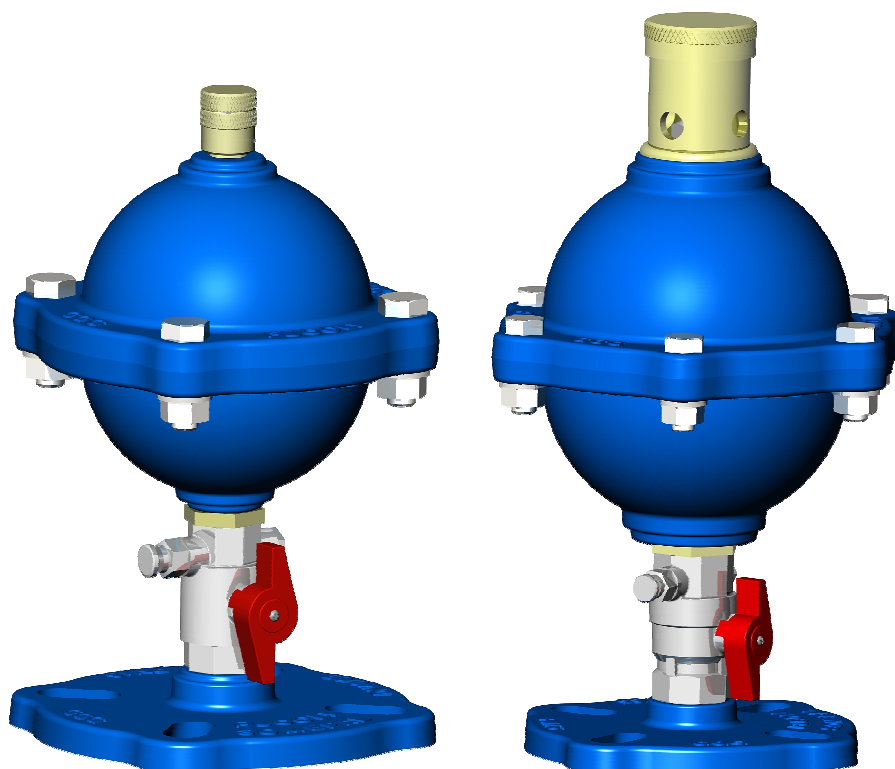




Fucoli - Somepal
FUNDIÇÃO DE FERRO, S.A.

OPERATIONS MANUAL



SINGLE FUNCTION AIR VALVE **Series WIND** **DOUBLE FUNCTION AIR VALVE** **Series DOUBLE WIND**



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1. DESCRIPTION

The Single Function Air Valve **Series WIND**, is an air valve designed to evacuate small debt of air, allowing the entry of air in case of depression in the pipe.

The Double Function Air Valve **Series DOUBLE WIND**, is an air valve designed to evacuate small or medium debt of air, allowing the entry of air in case of depression in the pipe.

The body and cover of this Air Valves are composed in DUCTILE IRON EN-GJS-500, and floats in steel covered with EPDM elastomer.

The coating inside and outside of air valve is in EPOXY POTABLE PAINT.

These Air Valves allow full protection at a high point of a section of water pipeline. They are installed on the vertical perforations at high points of water pipelines. This type of Air Valves is equipped with an isolation valve, allowing the air valve removal for maintenance service.

2. POTENTIAL RISK IDENTIFICATION

There were not identified any potential use risks during its development.

In marketing and servicing, are not associated or identified any risks in the assembly and operation.

3. INSTALLATION AND HANDLING

Handling should be made by trained / authorized personnel only.

The valve must be fully open for proper operation. These Air Valves have a drain plug that allows you to verify its operation or the existence of water or air in the pipe.

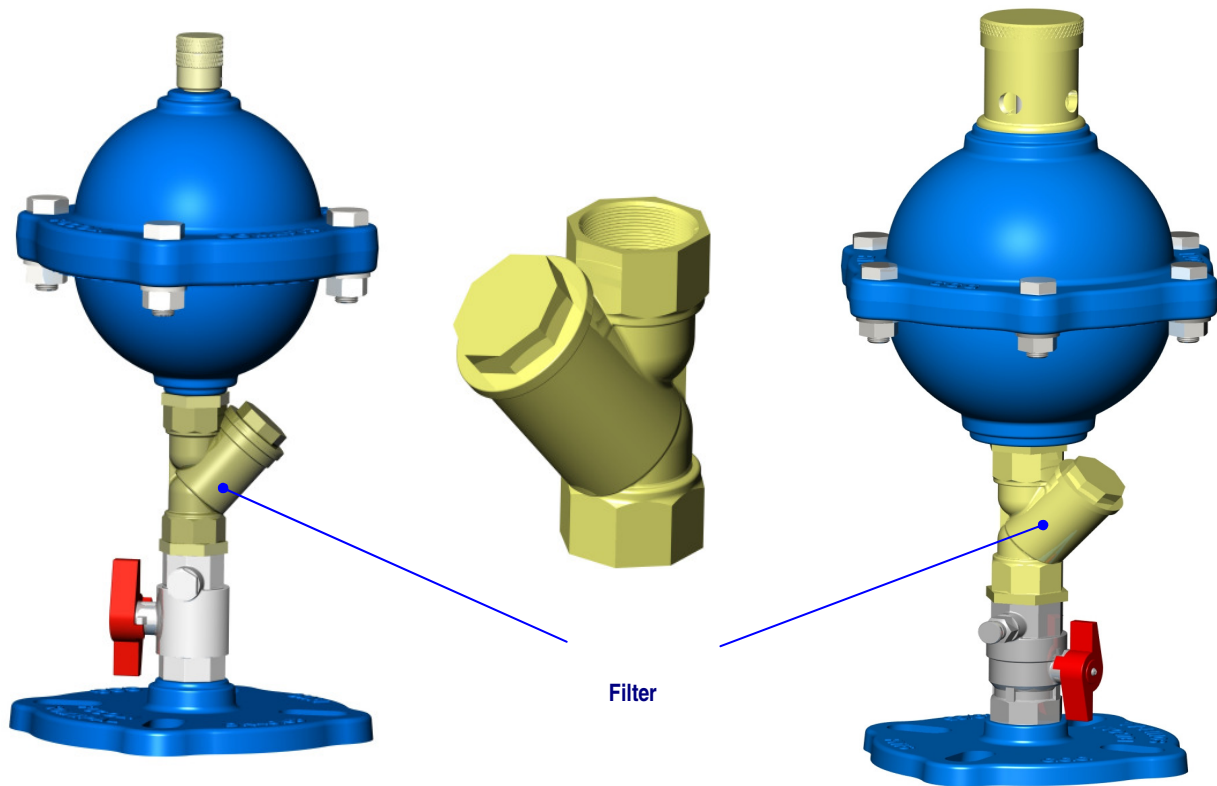
4. MAINTENANCE

In normal operation conditions - with filter incorporated -, is maintenance free.

However there may be a possibility of accumulation of debris inside the filter, due to their assembly be made on the highest points of the pipeline.

In case of malfunction of the air valve is recommended the fully close of the isolation valve, remove the bonnet of the air valve to make the inside components cleaning.

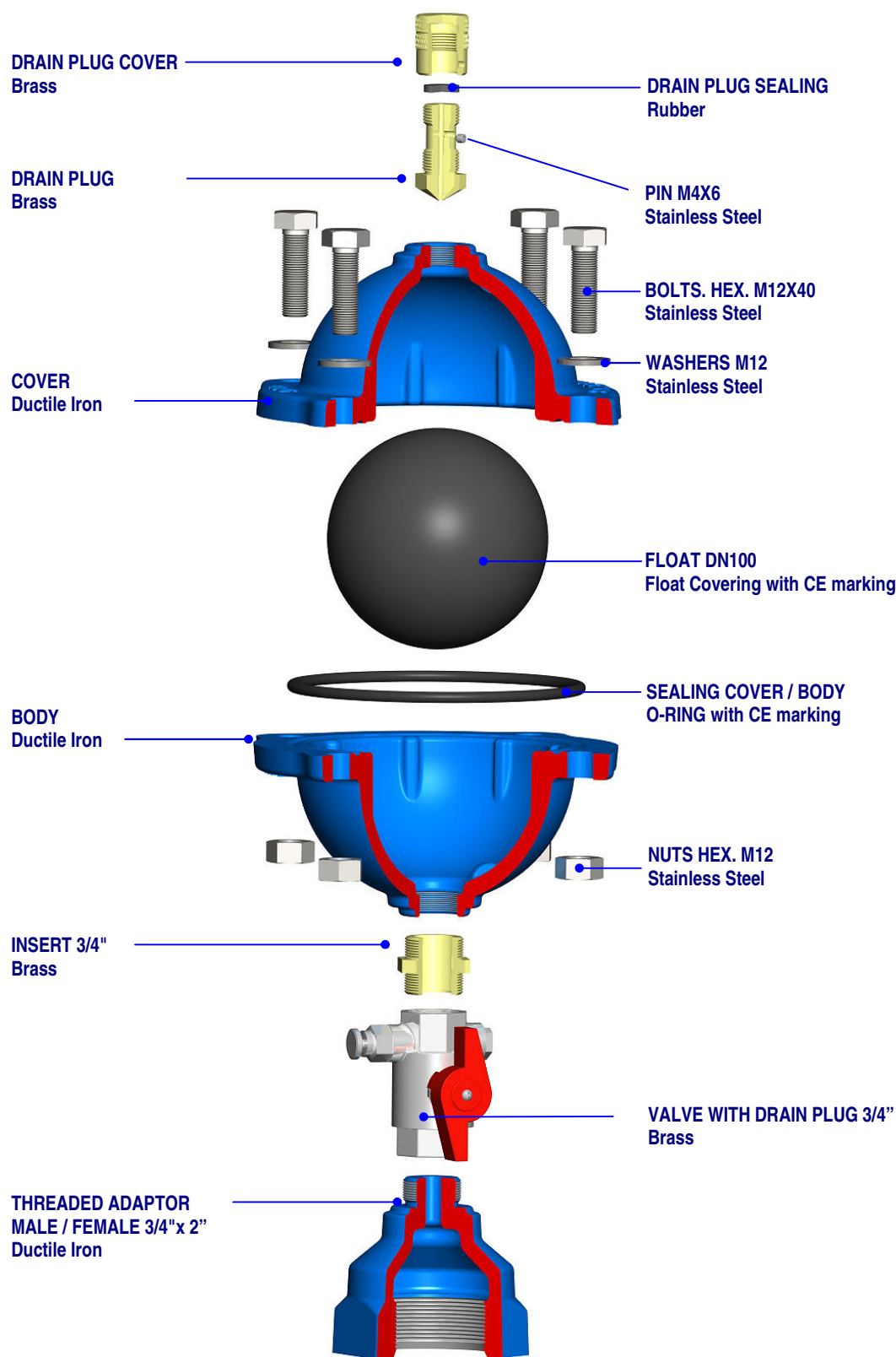
Should be used pressure water or compressed air to remove any deposits which may exist in the components.



To work properly, we recommend the use of single and double function air valves with filter.

SINGLE FUNCTION AIR VALVE

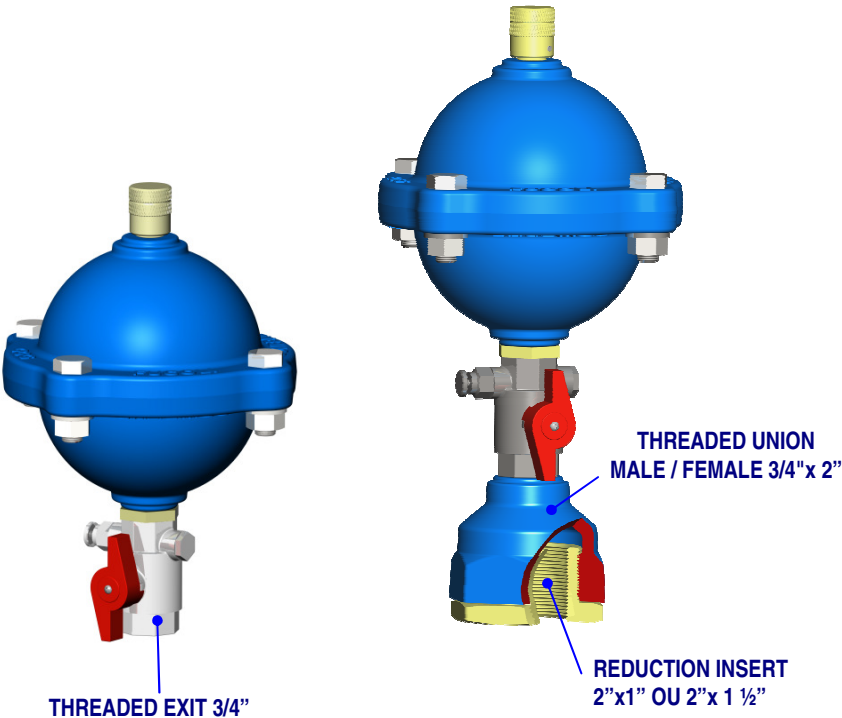
"Series WIND"



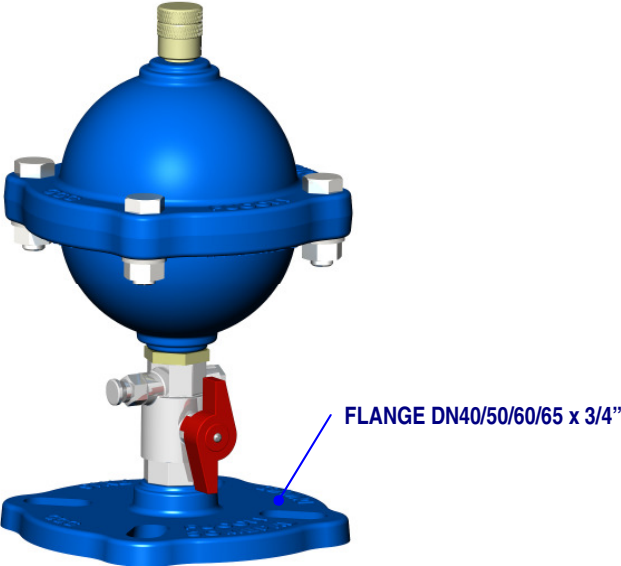
THREADED AIR VALVE 2"



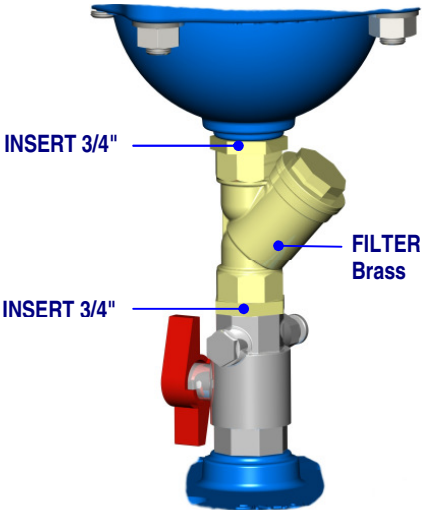
THREADED AIR VALVE 1" OR 1 1/2"



FLANGED AIR VALVE DN40/50/60/65

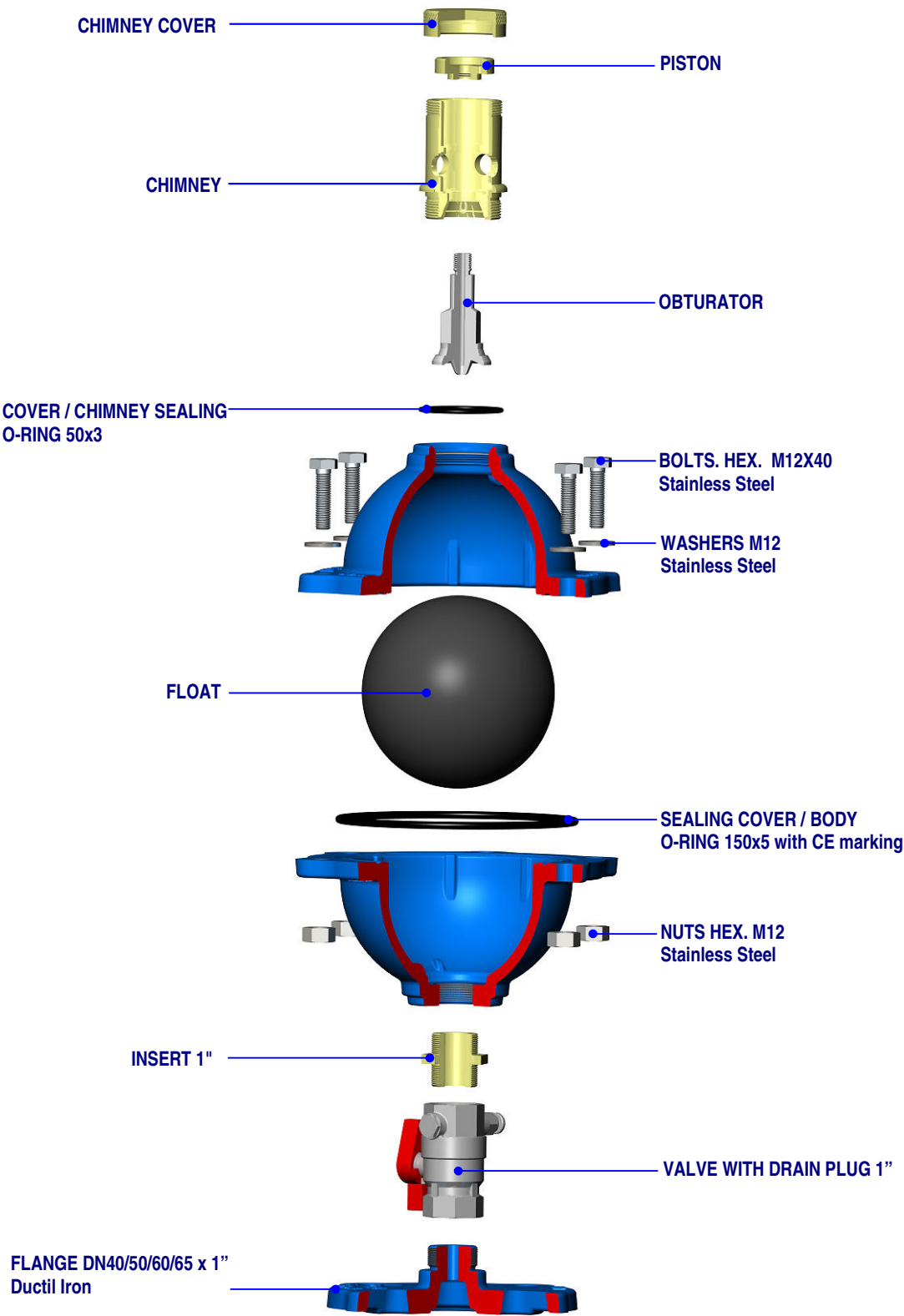


AIR VALVE WITH FILTER

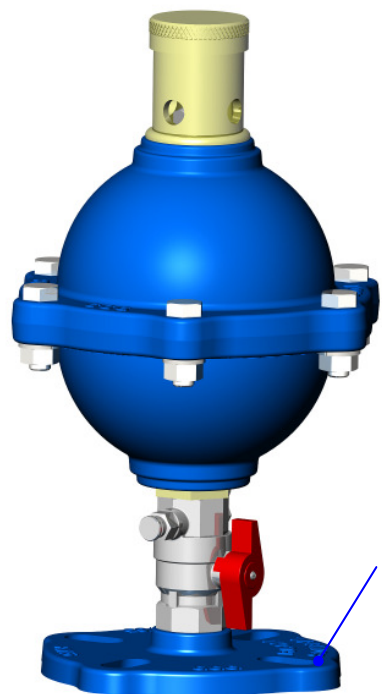


The assembly of the filter is made between the Air Valve body and Valve with drain plug 3/4"

DOUBLE FUNCTION AIR VALVE
"Series DOUBLE WIND"

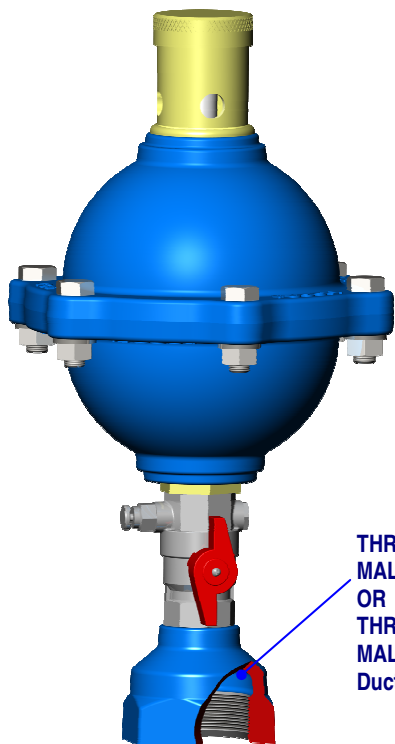


FLANGED AIR VALVE DN40/50/60/65



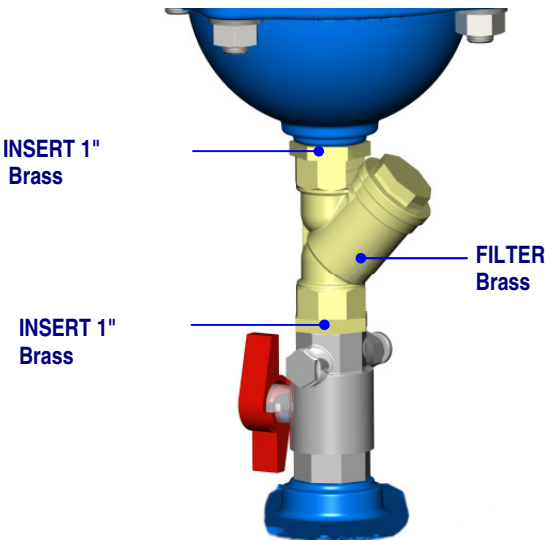
FLANGE DN40/50/60/65 x 1"
Ductil Iron

THREADED AIR VALVE 1" a 2 ½"



THREADED ADAPTOR
MALE / FEMALE 1"x 2"
OR
THREADED ADAPTOR
MALE / FEMALE 1"x 2 ½"
Ductil Iron

AIR VALVE WITH BUILT-IN FILTER



INSERT 1"
Brass

FILTER
Brass

INSERT 1"
Brass

The assembly of the filter is made between the Air Valve
body and Valve with drain plug 1"