KIT ALIM

Automatic filling kit for boilers with non-controllable backflow preventer CA-a type

Technical Datasheet

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Description

The “Alim CA” Filling kit with non-controllable type CA-a backflow preventer Is designed for filling single-family or multi-family heating systems with a capacity of less than 70kW.

The CA9C backflow preventer is a device with 2 check valves separated with a zone connected to the atmosphere.
The CA9C backflow preventer prevents the return of polluted fluid back into the drinking water network. Equipped with a pre-filter, polluted water is ejected to the outside without contaminating the drinking water network, making it possible to identify any malfunction and take immediate action quickly.

- Time saving: full package, assembled, tight and tested
- Safety: automatic supply adjustable from 0,3 to 0,4 bar
- Sanitary compliant : drinking water network protected by a CA-a backflow preventer
- Practical: isolation valves and control pressure gauge

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DN		Connection	PFA (in bar)	Ref.	Weight Kg
“	mm				
1/2	15	F/F	10	2230702	1,53

Technical features	
Permissible operating temperature (PFA)	10 bar
Min. pressure	1 bar
Max operation temperature	65°C (40° for the automatic supply)
Connection	F/F
Max flow	1800 L/h
Setting pressure	0.3 to 4 bar
Mediums	Drinking water

Delivered with manometer (0 to 4 bar)
Air gap connection: Ø40

Nomenclature et matériaux

N°	Description
1	Ball valve F/F 1/2"
2	Automatic filling valve M/F 1/2"
3	Manometer M 1/4" radial MR50
4	Backflow preventer CA9C
5	Ball valve M/F 1/2"
6	Nuts M/M 1/2"

Approvals

ACS

International construction standards :
- EN1717 - EN14367
- ISO 228

Application

The “Alim CA” Filling kit with non-controllable type CA-a backflow preventer Is designed for filling single-family or multi-family heating systems with a capacity of less than 70kW.

The CA-a type backflow preventer with non-controllable pressure zones is intended within the limits defined by the health authority to protect drinking water networks against the return of polluted fluids that do not present major toxic or microbiological risks for human health (fluid from category 3).

The Alim kit is recommended for filling and protecting heating systems below 70kW.

Installation

- The backflow preventer CA must be installed by qualified technician in accordance with the instructions given in the packaging and following current local regulations.
- The backflow preventer CA must be installed horizontally after an isolating valve (with draining tap) upstream and an inspectable strainer, another isolating valve must be installed downstream.
- The device must be installed in an accessible area that is large enough to preven it getting submerged by any accidental flooding.
- A Ø40mm pipe is required to evacuate any fluid that may be discharged from the unit.
- Check the discharge pipe to ensure you of the correct operation of the flow.
- During installation it is necessary to respect the direction of flow indicated by the arrow on the body of the device
- To protect the water network, the Alim kit should be installed at the edge of areas where contamination may occur, e.g. filling central heating systems...

This protection system is subject to the annual maintenance and upkeep obligations prescripted by health regulations.

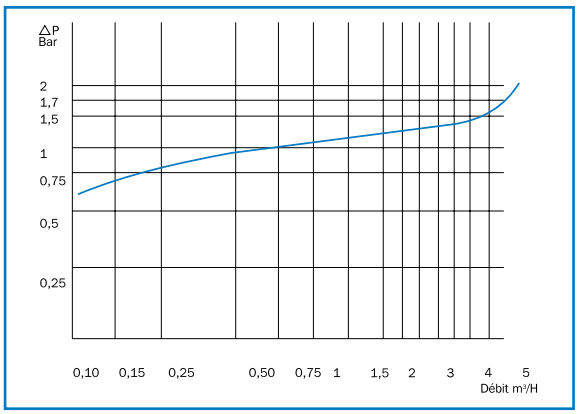
Maintenance

It is recommended that the CA-a backflow preventer device should be inspected at least once a year. The first indication of malfunction, generally caused by foreign debris (sand, copper, or calcium…) is revealed with a permanent leak from the drain.

In the case of leakage at the drain, it is recommended to generate a major flow of circulation by opening some taps for a few minutes: this is often sufficient to expel any foreign debris and bring everything back to normal situation. This leak is merely an early warning and definitely does not put the safety of the device at risk, but it requires removing and cleaning the device an upstream trainer.

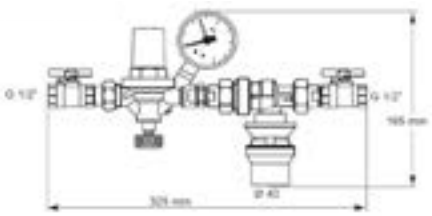
Operation

CA 9C Headloss chart



Sizing

Ref.	DN	Length (mm)	Height (mm)	Depth (mm)
2230702	15	325	165	58



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