

ALIM KIT

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

Technical Data sheet



Description

The CAa supply kit is a “ready-to-install” solution for filling domestic boilers or individual heat pumps while ensuring the safety of the drinking water network.

The CAa type backflow preventer protects drinking water networks against the backflow of hazardous fluids up to category 3 in accordance with standards NF EN1717 and EN14367.

The feeder enables automatic filling of the boiler and maintains water pressure in the heating system.

The unit is delivered assembled, glued and tested, and offers numerous advantages:

- Time saving: complete kit ready to install
- Safety: automatic feeder adjustable from 0.3 to 4 bar
- Sanitary compliance: drinking water network protection ensured by a CAa type backflow preventer
- Practical: isolation valves and control pressure gauge included.



ALIM KIT

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

DN	Connection	PFA (in bar)	Reference	Weight (in kg)
“ 1/2 mm	F/F	10	2230704	1.382

Technical features

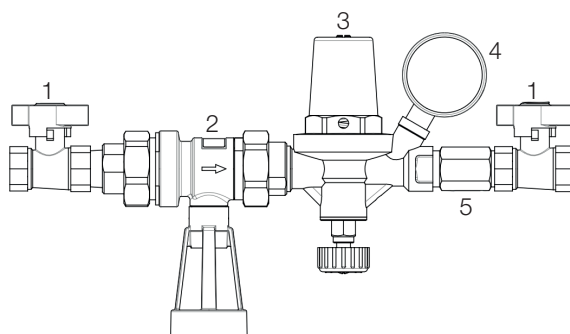
Permissible operating pressure (PFA)	10 bar
Minimum pressure	1 bar
Maximum operating temperature	65°C (40°C for the automatic filling feeder)
Connections	F/F
Adjustable outlet pressure	from 0.3 to 4 bar
Permitted fluids	Drinking water

Supplied with pressure gauge (0 to 6 bar)

Air guard connection: Ø40

Nomenclature

N°	Désignation
1	Ball valve F/F 1/2"
2	Hydraulic backflow preventer CAa M 1/2" F 3/4"- CA9C
3	Automatic filling feeder M 3/4" F 1/2"
4	M 1/4" radial pressure gauge type MR50
5	Nipple M/M 1/2"



Approvals

CA9C backflow preventer approvals: ACS 

Standards/Regulations:

- EN1717 - EN14367
- ISO 228

Kit contents

The Alim CA Kit consists of :

- 2 upstream/downstream isolation valves with ball valves
- A CAa DN15 backflow preventer with air gap
- An automatic filling feeder equipped with a pressure gauge (0-6 bar)

Application

The CAa filling kit maintains optimal pressure, ensures efficient boiler operation, guarantees thermal comfort and protects the drinking water network.

The supply module is designed for automatic filling of individual or collective heating systems.

The CAa backflow preventer prevents any return of contaminated fluid into the drinking water network. Equipped with a filter and an air gap, contaminated water is ejected to the outside without contaminating the drinking water network.

The automatic feeder fills the heating circuit. The pressure value of the equipment can be monitored using the pressure gauge. When the pressure drops below a certain predefined threshold, the feeder activates automatically and opens a valve to allow water to enter the system. Once the required pressure is reached, the check valve closes automatically.

Installation

The ALIM CA kit is assembled, sealed and ready to install. The protection assembly must be installed by a qualified technician. A minimum clearance of 150 mm must be provided around the enclosed volume of the device (except on the installation side). The relief valve must not be submerged.

Installation requirements :

- The device must be installed in a horizontal position, respecting the direction of fluid flow indicated by the arrow engraved on the body of the backflow preventer.
- The device must be easily accessible.
- It must not be installed in locations that are prone to flooding,
- It must be installed in a well-ventilated environment (unpolluted atmosphere),
- The drain must be able to accommodate the discharge flow,
- It must be protected from frost or extreme temperatures.

Procedure :

- Clean and rinse the pipes of the water supply system.
- The opening of the relief valve must be connected to a Ø 40 mm drain pipe via the funnel provided.

Adjustment of the ALIMAT automatic feeder

The automatic feeder is adjusted by turning the screw :

- Towards + (clockwise) to increase the pressure
 - Towards – (anti-clockwise) to decrease the pressure
- The pressure value of the circuit can be checked on the pressure gauge.

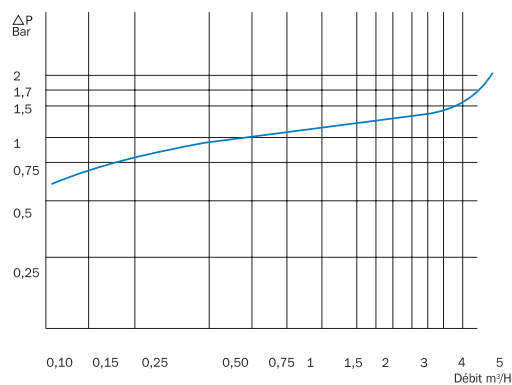
Maintenance

It is recommended that the CA-a type protection assembly be inspected at least once a year.
The first sign of malfunction, usually caused by foreign debris (sand, copper or calcium, etc.), is a permanent leak into the drain.
In the event of a leak into the drain, it is recommended that you generate a strong flow of water by opening the taps for a few minutes: this is often enough to remove foreign debris and restore normal operation.

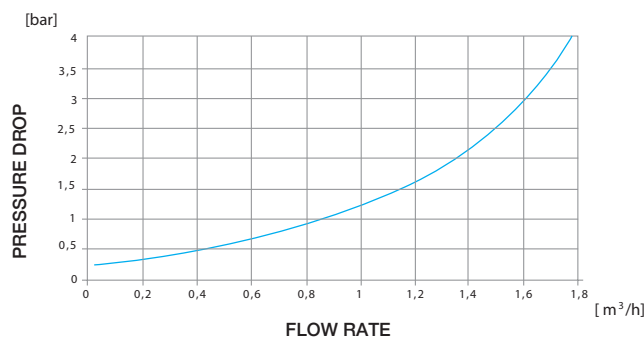
Please note: CAa disconnectors cannot be repaired. In the event of a malfunction, the kit must be replaced.

Operating characteristics

CA9C pressure drop chart



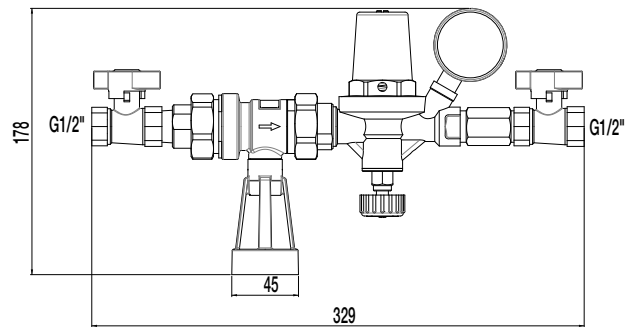
ALIMAT pressure drop chart



Sizing

code ref.	DN	Lenght (mm)	Height (mm)	Depth (mm)
2230704	15	325	178	58

Depth : 58mm



The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.
Watts reserves the right to carry out any technical and design improvements to its products without prior notice. Warranty : All sales and contracts for sale are expressly conditioned on the buyer's assent to Watts terms and conditions found on its website at www.watts.com. Watts hereby objects to any term, different from or additional to Socla terms, contained in any buyer communication in any form, unless agreed to in a writing signed by an officer of Watts.



WATTS INDUSTRIES France
1590 avenue d'Orange • CS 10101 Sorgues 84275 VEDENE CEDEX • France
Tél. +33 (0)4 90 33 28 28 • Fax +33 (0)4 90 33 28 39
contact@wattswater.com • www.watts.eu