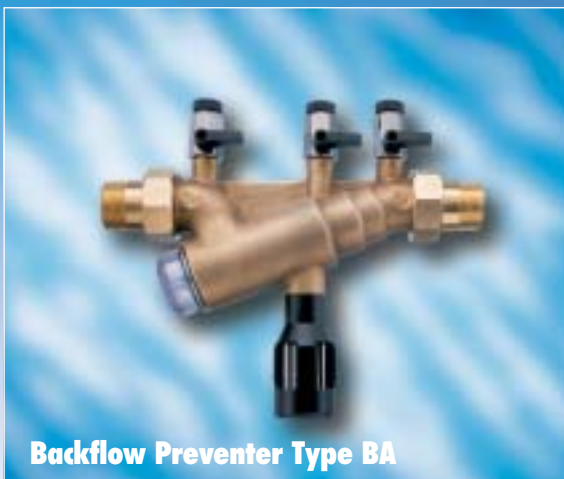


# SYR Backflow Preventers: The point of no return.

Safe drinking water protection



Backflow Preventer Type BA



Filling-Combi Type BA



Backflow Preventer Type CA



Filling-Combi Type CA

**The backflow of contaminated non potable water is a danger for the quality of our drinking water. How and where drinking water requires protection against backflow of non potable water is laid out in various standards around the world. The Backflow Preventers types BA and CA from SYR fulfil all requirements of the related standards. Like all SYR products, these valves are designed in reliable top quality and are simple to install and to service.**

The BA Backflow Preventer from SYR, also known as Reduced Pressure Zone Valve (RPZ) prevents backpressure, backflow and backsiphonage of potentially hazardous water into the potable water system and protects against all risk categories up to and including class 4 risks. To protect the drinking water quality up to the fluid category 3, SYR proposes the Backflow Preventer type CA. Both protective devices fully meet the requirements of all international standards. The advantages of SYR's Backflow Preventers are the following:

- **3-pressure-zones system**
- **Integral strainer**
- **Cartridge system**
- **Indicator for open and closed position (BA)**



SMART IDEAS FOR CLEVER PEOPLE

# Three pressure zones for perfect safety.

## BACKFLOW PREVENTERS BA/CA



Backflow Preventer  
Type BA

The SYR Backflow Preventers type BA and CA are designed as 3-pressure-zones systems. The upstream, intermediate and downstream pressure zones of the BA Backflow Preventer are verifiable. Two consecutive check valves and an intermediate pressure zone, which can be vented to the atmosphere ensure absolute reliability and safety.

### Simple maintenance

The SYR cartridge system enables easy maintenance. The reduced pressure zone cartridge and the integral strainer can be exchanged with a flick of a wrist.

### Reliable quality

Proven SYR components and high quality materials ensure reliability and an extended product life. The housing of the SYR Backflow Preventer is made of corrosion resistant gunmetal, the internal parts of high quality synthetic material or stainless steel. The integral strainer protects the device against impurities.



Backflow Preventer  
Type CA

### Fields of application

**CA Backflow Preventer:** Protection up to category 3, which refers to fluids representing some human health hazard due to the presence of one or more harmful substances.

#### Examples of applications:

- Drink vending machines
- Commercial softening plants
- Filling device for heating installations (water without inhibitors)

**BA Backflow Preventer:** Protection up to category 4, which refers to fluids representing a human health hazard due to the presence of one or more toxic or very toxic substances or one or more radioactive, mutagenic or carcinogenic substances.

#### Examples of applications:

- Food preparation
- Filling device for heating installations (water with inhibitors)
- High pressure cleaners with addition of chemicals

### Models

SYR BA Backflow Preventer 6600  
SYR CA Backflow Preventer 6800

## Filling-Combi BA/CA



Filling-Combi Type BA

The SYR Filling-Combi BA/CA is an extension of the Backflow Preventer and includes an isolating valve, a pressure reducing valve, a pressure gauge, a Backflow Preventer BA/CA and a drain connection.

According to international standards, all connections to the potable water installation have to be permanent. For example, the connection of a heating system with inhibitors (anti-freeze solutions, corrosion protecting products) to the potable water system has to be made with a BA Filling-Combi.

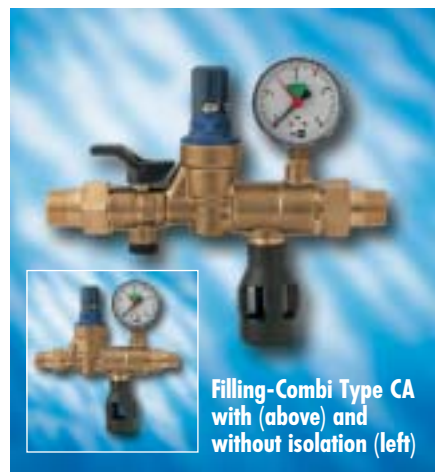
### Models

SYR BA Filling-Combi 6628  
SYR CA Filling-Combi 6828  
SYR CA Filling-Combi 6827 without isolation

**1. Inoperative position:** when no water is drawn-off, the primary and secondary check valves and the discharge valve of the intermediate pressure zone are closed.

**2. Flow position:** when water is drawn-off, both check valves are open. The discharge valve of the intermediate pressure zone remains closed.

**3. Disconnection:** when the supply pressure drops, the primary check valve closes and the discharge valve opens. This reliable device prevents back-siphonage, backpressure and backflow. The secondary check valve is closed.



Filling-Combi Type CA  
with (above) and  
without isolation (left)

