

# Vacuum breaker device for domestic water systems

## 3040 series



### Function

The vacuum breaker device is used to prevent water storages from being damaged by a sudden rapid drop in the pressure of the water inside the tank body. This may happen, for example, if the inlet shut-off valve is left closed and enough water is drawn at the same time to create a significant drop in pressure inside the tank. In this case, the internal pressure loss can lead to the destructive implosion of the tank walls.



### Product range

3040 series Vacuum breaker device for domestic water systems size 1/2" and 3/4"

### Technical specifications

#### Materials

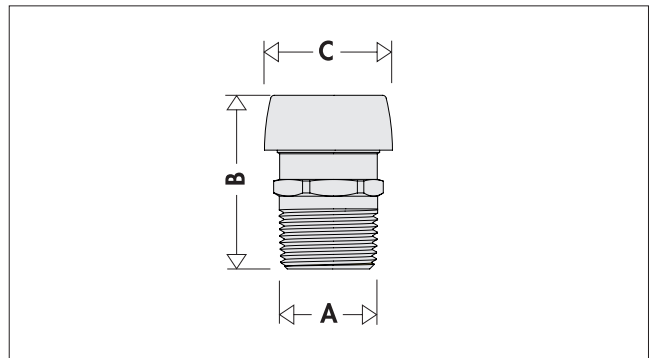
Body: dezincification-resistant alloy **CR** EN 12165 CW724R  
 Cartridge: PPSU  
 Spring: stainless steel ISO 6931-1 (4310-301-00)  
 Seal: silicone  
 Badge: ABS  
 Cover: PA6G30

#### Performance

Medium: water, water vapour at low pressure  
 Maximum working pressure (water): 14 bar  
 Maximum working pressure (water vapour): 1 bar  
 Working temperature range: 0–120 °C  
 Opening pressure: 1 kPa  
 Air intake flow rate: 130 NI/min @ 7 kPa

Connections: G 1/2"-3/4" M (ISO 228-1)

### Dimensions

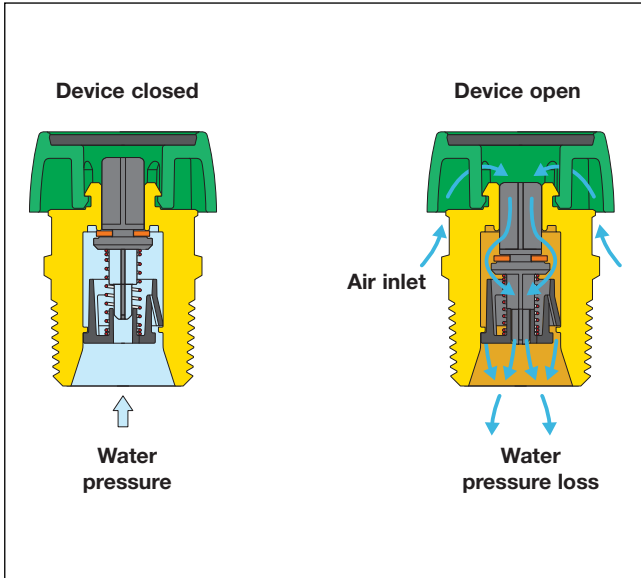


Code	A	B	C	Mass (kg)
304040	1/2"	40,5	Ø 35	0,08
304050	3/4"	43,5	Ø 35	0,10

## Operating principle

When power is being supplied under the correct pressure conditions, the vacuum breaker device remains closed, allowing normal system operation to take place. It opens in pressure loss conditions, allowing the entry of air at atmospheric pressure in order to prevent hazardous situations from arising.

The vacuum breaker device should be installed at the top of the tank connection pipe.



## Construction details

### Dezincification resistant material with very low lead content (Low Lead)

The material used to make the vacuum breaker valve is perfectly in line with the new regulatory provisions concerning contact with potable water. This is an innovative alloy with a very low lead content and dezincification resistant properties.

### Protection from external agents

The shape of the cover means that the valve is protected from dust or other substances which could prevent it from working properly. The vacuum breaker device should nevertheless be installed in a location where it is protected from direct atmospheric agents.

### Shaped obturator

The obturator sliding zones are designed to minimise friction and prevent hazardous build-up.

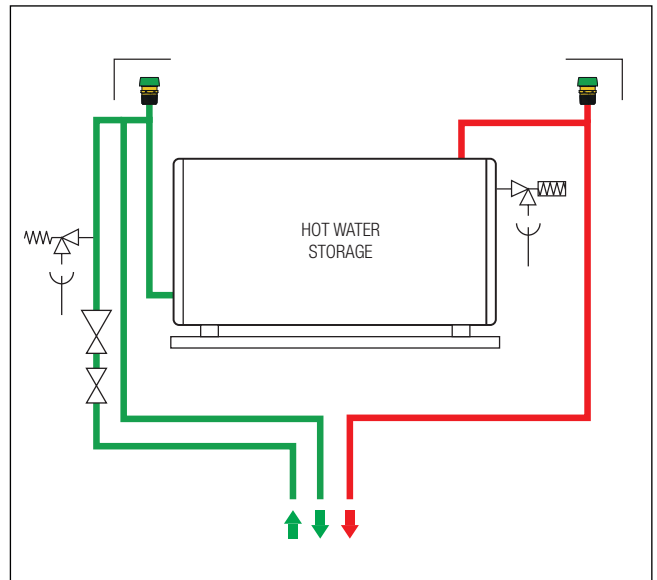
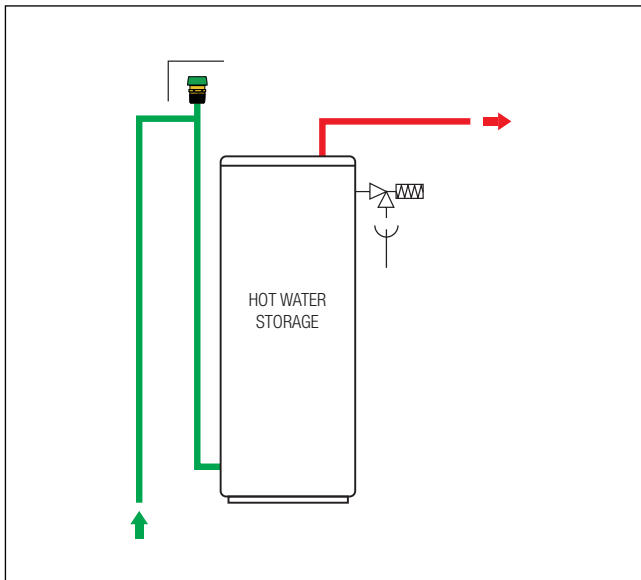
### Operating conditions

The material used to make the seal guarantees high pressure and working temperature values.

## Installation

The vacuum breaker device should be installed in a vertical position, with the cover facing upwards. For safety reasons, the connection pipe leading to the valve must be free of shut-off elements.

## Application diagrams



## SPECIFICATION SUMMARY

### 3040 series

Vacuum breaker device for domestic water systems. Threaded 1/2" (or 3/4") M connections. "Low Lead" dezincification resistant alloy body. PPSU cartridge. Steel spring. Silicone seal. ABS badge. PA6G30 cover. Medium: water and water vapour at low pressure. Maximum working pressure 14 bar (water) and 1 bar (water vapour). Working temperature range 0–120 °C. Opening pressure 1 kPa. Air intake flow rate 130 NI/min @ 7 kPa.

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