**resideo**

## Product information

Protective device used in protective module type BA (Resideo BA295S-LFA) with threaded connection for liquid category 4 according to SS-EN 1717. Protective device made of lead-free brass with integrated dirt filter for compact construction. Should be installed as a complete protective module to comply with EN-1717.

|                      |         |
|----------------------|---------|
| Dimension range (DN) | 15 - 50 |
| PN                   | 10      |
| Temperature (°C)     | 0 - 65  |
| Main material        | Brass   |



## Area of use

Backflow preventers are used to protect internal and external plumbing systems from backflow and overpressure. The protective covering can handle liquids up to category 4. The backflow preventer is of type BA in accordance with SS-EN 1717. AT 1168C has an integrated dirt filter and is therefore very suitable for compact installations. The protective device is made of lead-free brass.

## Tender text

### **PSG.262 Backflow preventers with check valve**

Backflow prevention device AT 1168C... (DN=..), Complete protection module consisting of protection device type BA with double check valves and intermediate pressure-controlled chamber with drainage, integrated dirt filter, inlet and outlet valves. PN10 in threaded design. For maximum protection coverage of liquid category 4 according to SS-EN 1717. Backflow prevention device in lead-free brass.

## Quality assurance

AFS 2023:5, 8 paragraf, Fluid category 4, SS-EN 1717, SS-EN 12729

DIN/DVGW approval number DW-6305 BN 0290.

**Product marking:** Manufacturer, DN, PN, flow direction, manufacturer and manufacturing number.

Separate inspection nameplate.

## Energy and environment declaration

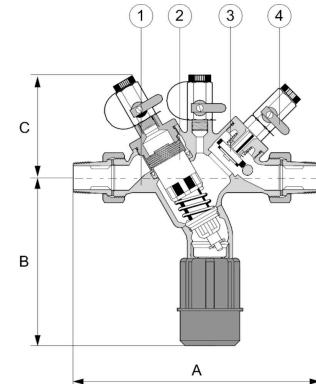
**Product Bvb:** Avoided

**Product BVB ID:** 133815

**SundaHus:** B

**Reach date:** 1/17/2023 12:52:00 PM

| Pos | Component | Material |
|-----|-----------|----------|
|-----|-----------|----------|



## Measurements and weight

**Dimension range (DN):** 15 - 50

| DN | A   | B   | C   | Net weight (kg) |
|----|-----|-----|-----|-----------------|
| 15 | 195 | 143 | 88  | 1.6             |
| 20 | 208 | 143 | 88  | 1.8             |
| 25 | 225 | 174 | 103 | 2.8             |
| 32 | 272 | 174 | 103 | 3.3             |
| 40 | 322 | 217 | 126 | 5.9             |
| 50 | 348 | 217 | 126 | 7.2             |

## Function and design

Backflow preventer type BA covers the risks up to liquid category 4 when connecting to tap water, i.e. "Liquid that poses a health risk due to the presence of one or more toxic or highly toxic substances or one or more radioactive, mutagenic or carcinogenic substances".

The protective device has double check valves and an intermediate chamber with drainage (the drainage valve is combined in an insert with the inlet check valve). The protective devices work with three different pressure zones. The pressure in zone 1 is higher than in zone 2, which is higher than in zone 3. A drainage valve is connected in zone 2 and opens when the pressure difference between zone 1 and zone 2 drops to 0.14 bar. The water in zone 2 is drained to the atmosphere. This prevents siphonage or overpressure backflow to the system.

The backflow preventer must be installed as a complete protection module. The protection module includes a type BA protective device together with an integrated dirt filter. Shut-off valves are included for the inlet and outlet. It is an absolute requirement that the backflow preventer is installed as a protection module.

## Technical data

**Main material:** Brass

**Included materials:** Brass, Stainless steel, Plastic, Rubber

**Included material code:** EPDM (ethylene propylene diene monomer rubber)

**Material note:** Unleaded

**Temperature (°C):** 0 - 65

**PN:** 10

**Connection:** External thread ISO 228-1 (G, BSPP)

**ETIM classification:** EC004501 - Backflow preventer

**Comment to colour:** Natural colour

**Pressure drop characteristics**

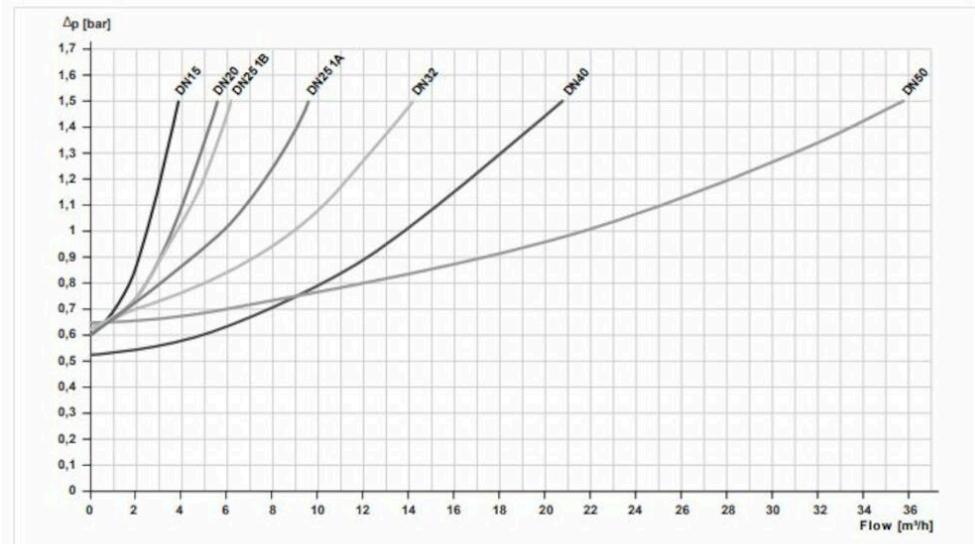


Fig. 1 Pressure drop within the valve in dependency of the flow rate and the used connection size

| Item number | Connection 1                        | Connection 1 - spec. | Connection 2                        | Connection 2 - spec. | Connection notes   | Execution | KVS |
|-------------|-------------------------------------|----------------------|-------------------------------------|----------------------|--------------------|-----------|-----|
| 1168C15     | External thread ISO 228-1 (G, BSPP) | 1/2                  | External thread ISO 228-1 (G, BSPP) | 1/2                  | Protective devices | 2.4       |     |
| 1168C20     | External thread ISO 228-1 (G, BSPP) | 3/4                  | External thread ISO 228-1 (G, BSPP) | 3/4                  | Protective devices | 3.5       |     |
| 1168C25     | External thread ISO 228-1 (G, BSPP) | 1                    | External thread ISO 228-1 (G, BSPP) | 1                    | Protective devices | 3.5       |     |

| Item number | Connection 1                        | Connection 1 - spec. | Connection 2                        | Connection 2 - spec. | Connection notes   | Execution | KVS |
|-------------|-------------------------------------|----------------------|-------------------------------------|----------------------|--------------------|-----------|-----|
| 1168C32     | External thread ISO 228-1 (G, BSPP) | 1 1/4                | External thread ISO 228-1 (G, BSPP) | 1 1/4                | Protective devices | 8.5       |     |
| 1168C40     | External thread ISO 228-1 (G, BSPP) | 1 1/2                | External thread ISO 228-1 (G, BSPP) | 1 1/2                | Protective devices | 13.5      |     |
| 1168C50     | External thread ISO 228-1 (G, BSPP) | 2                    | External thread ISO 228-1 (G, BSPP) | 2                    | Protective devices | 21        |     |

## Installation and maintenance

**Flowdirection:** Uni-directional

**Possible mounting position:** Horizontal

**Possible mounting position notes:** "Should be installed with drainage downwards."

The backflow preventer must be installed as a complete protection module. The protection module includes a protection device type BA together with an integrated dirt filter. Shut-off valves are included for the inlet and outlet. It is an absolute requirement that the backflow preventer is installed as a protection module.

Inadequate or incorrect maintenance of a tap water installation, including backflow prevention, can result in deteriorated tap water quality. Regular (annual) maintenance of the protection module must therefore be carried out to ensure the long-term function of the protections. This is a requirement according to the standard SS-EN 1717. The annual inspection must be carried out by a trained and Armatec AB-approved inspector.

For all installed backflow preventers of type BA, annual inspection procedures must be established and inspection reports submitted to the water supplier. Armatec's service technicians are specially trained and certified for repair and service inspection of backflow preventers. We offer to perform the service inspection and ensure that the necessary reporting documentation is provided.

### Please feel free to contact us

We answer your questions by e-mail and telephone. No question is too small, no challenge is too big. You are always welcome at Armatec.

[info@armatec.se](mailto:info@armatec.se) | +46 31 89 01 00 | [www.armatec.se](http://www.armatec.se)

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