# Braukmann RV283P

## Controllable anti-pollution check valve with flanges

### APPLICATION

Check valves are preferably for use as an independent means of preventing reverse water flow and are for installing directly after a water meter, but also for application in transfer pipes on district water supply systems.

They can also be used for industrial, commercial and similar systems where back pressure, backflow and back syphonage must be prevented.

The types of safety devices required for these purposes are specified in EN 1717.

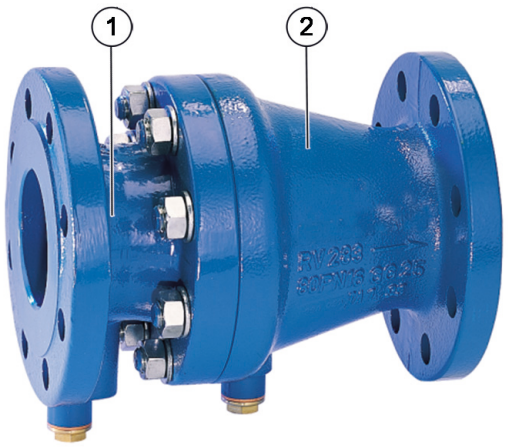
### SPECIAL FEATURES

- Universal application
- High temperature resistance
- Create no shock pressure loadings
- Powder-coated inside and outside
- Disc, spring and lip seal ring are exchangeable
- Low pressure loss
- All materials are UBA conform
- ACS certified

### TECHNICAL DATA

| | |
|---|---|
| **Media** | |
| Medium: | Drinking water |
| **Connections/Sizes** | |
| Connection size: | DN200 |
| **Pressure values** | |
| Opening pressure: | approx. 0.05 bar |
| Max. inlet pressure: | 16.0 bar |
| **Operating temperature** | |
| Max. operating temperature medium: | 65 °C (accord. DIN EN 13959) |
| **Specifications** | |
| Liquid category: | 2 (no hazardous materials) |

## CONSTRUCTION

| Overview | | Components | Materials |
|---|---|---|---|
|  | **1** | Housing end casing with flanges | Grey cast iron, powder-coated with epoxy resin |
| | **2** | Housing with flanges | Grey cast iron, powder-coated with epoxy resin |
| | | **Not depicted components:** | |
| | | Test and drain plugs | Brass |
| | | Disc guide | Stainless steel |
| | | Spring | Stainless steel |
| | | Lip seal ring | EPDM |
| | | Screws and nuts | Stainless steel |

## METHOD OF OPERATION

Spring loaded check valves have a moving seal disc which is lifted off the seat by a greater or lesser amount depending on the flow rate through the valve. If the flow falls towards zero, then the spring pushes the disc back onto the seat and seals the waterway.

To ensure continuing correct function it is recommended that check valves be regularly checked and maintained (as specified in EN 1717).

## TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

| Parameter | Value |
|---|---|
| Environment: | clean, dry and dust free |
| Min. ambient temperature: | 5 °C |
| Max. ambient temperature: | 55 °C |
| Min. ambient relative humidity: | 25 % * |
| Max. ambient relative humidity: | 85 % * |

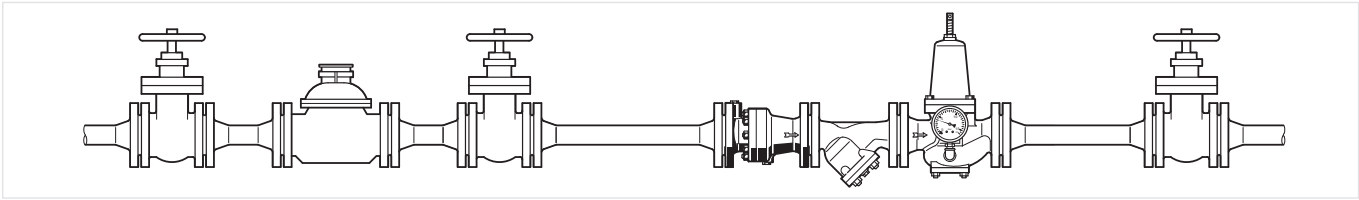
*non condensing

## INSTALLATION GUIDELINES

**Setup requirements**

- Install in horizontal pipework with test and drain plug downwards
  - This position is best for draining
- Install shut-off valves
  - Shut-off valves provide optimal serviceability
- Ensure good access
  - Simplifies maintenance and inspection
- Install right after water meter if applicable
  - Protects against backflow from water systems

**Installation Example**



## TECHNICAL CHARACTERISTICS

**kvs-Values**

| Connection sizes: | 200 |
|---|---|
| Value ($m^3/h$): | 1400 |

**Pressure drop characteristics**

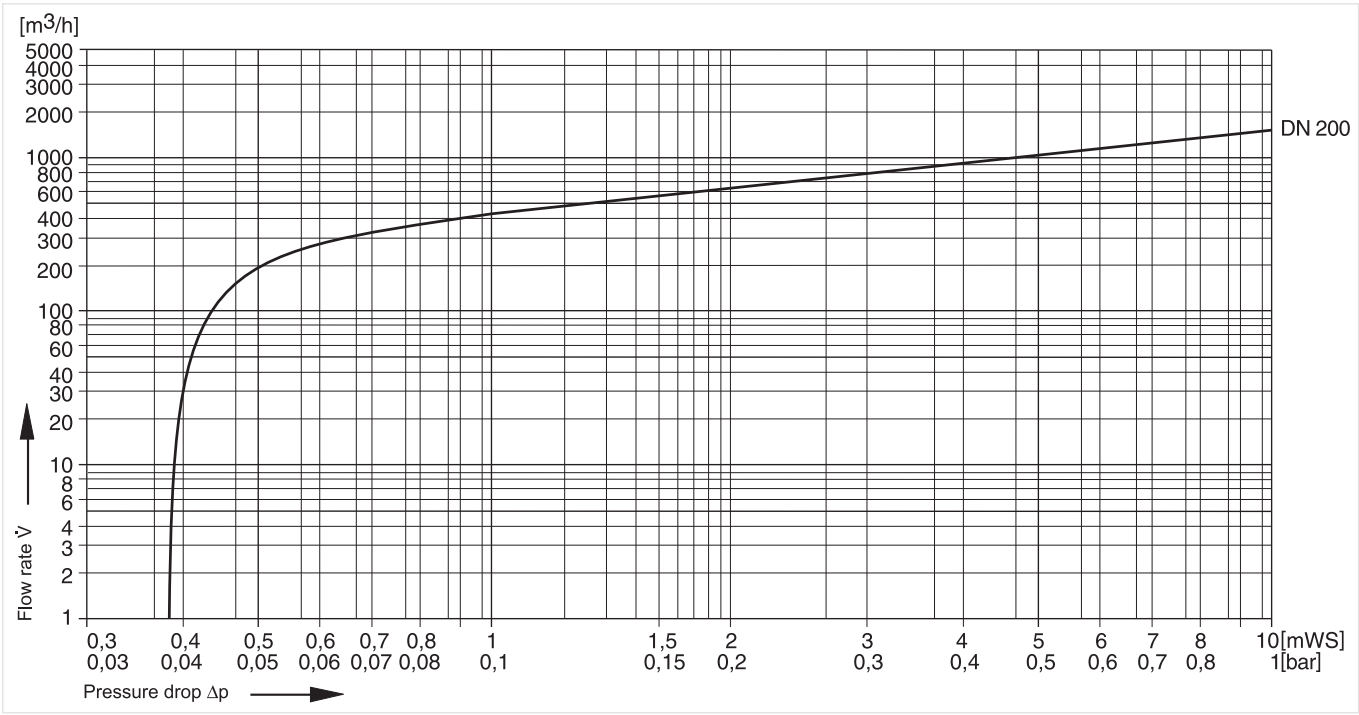
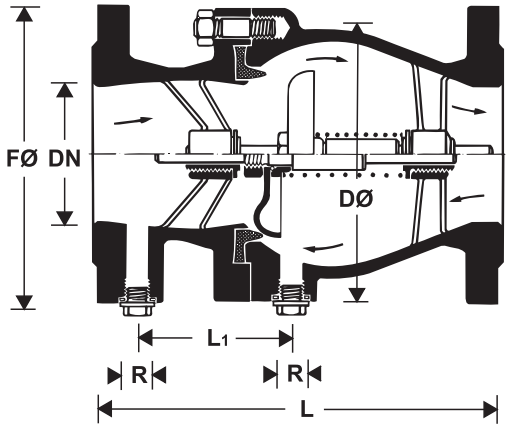



Fig. 1 Pressure drop within the valve in dependency of the flow rate and the used connection size

## DIMENSIONS

**Overview**




| Parameter | | Values |
|---|---|---|
| Connection size: | R | 200 |
| Test and drain plug: | R | 1/2" |
| Weight: | kg | 78.0 |
| Dimensions: | L | 500 |
| | $L_1$ | 163 |
| | ØF | 340 |
| | ØD | 345 |
| Nominal flow rate at Δp = 0.15 bar: | $m^3/h$ | 542.0 |

Note: All dimensions in mm unless stated otherwise.

## ORDERING INFORMATION

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

### Options

The valve is available in DN200.

Further sizes are available under the RV283S family

| | | RV283P-...A |
|---|---|---|
| Connection type: | With drilled flanges, PN16, ISO 7005-2, EN 1092-2, EPDM lip seal ring | • |

Note: ... = space holder for connection size

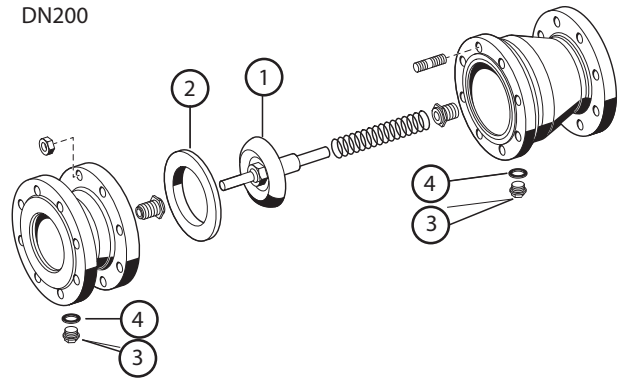
Note: Ordering number example for DN200: RV283P-200A

**Spare Parts**

Inlet check valve RV283P, from 2000 onwards

**Overview**

DN200




| | Description | Dimension | Part No. |
|---|---|---|---|
| **1** | **Valve disc guide** | | |
| | | DN200 | 0900381 |
| **2** | **Lip seal ring** | | |
| | | DN200 | 2238900 |
| **3** | **Hexagonal blanking plug** | | |
| | | DN200 | 2248700 |
| **4** | **Seal ring** | | |
| | | DN200 | 5350500 |

Manufactured for
and on behalf of
Pittway Sàrl, Z.A., La Pièce 4,
1180 Rolle, Switzerland

For more information
**homecomfort.resideo.com/europe**
Ademco 1 GmbH, Hardhofweg 40,
74821 MOSBACH, GERMANY
Phone: +49 6261 810
Fax: +49 6261 81309

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