

## Product Features

- Safe partition and low head loss
- Light weight
- Reliable sealing performance
- Compact structure design, saving installation space
- Easy maintenance, and vertical or horizontal installation

500X backflow prevention device consists of a basic valve with two-stage non-return device and an external drainer, where both ends of the drainer's guide piping are connected to the inlet and outlet of the basic valve respectively. When inlet pressure is greater than the outlet pressure, the drainer will automatically close. When the outlet pressure is greater than inlet pressure, the drainer will automatically open to drain the medium in the middle chamber of the basic valve to form an air partition to ensure the water supply safety.



500X

### Material Specifications

**Body/Bonnet:** Ductile Iron/Stainless Steel

**Disc:** Stainless Steel

**Seat:** Stainless Steel

**Spring:** Stainless Steel

**Drainer:** Stainless Steel

**Seal Ring:** NBR

### Working Pressure Range

175PSI/235PSI/350PSI

10Bar/16Bar/25Bar

### Flange Standards

ANSI / BSEN / DIN

### Temperature/Medium

0°C~100°C normal temperature water

### Opening Pressure/Local Head Loss

≤0.3 Bar

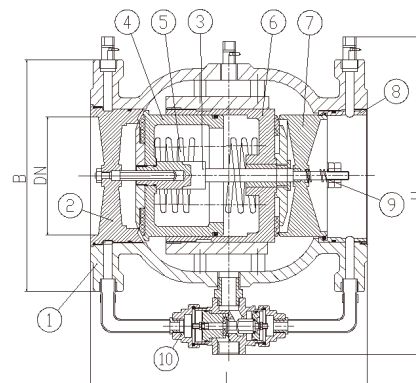
### Please Provide the Following Data When Ordering

Valve figure number/size/pressure grade/connecting end type/other optional accessories

\* Note: In valve installation, it is strongly suggested that sufficient space should be left for easy maintenance in the future. A strainer shall be mounted in front of the valve to prevent foreign matters from blocking the valve.

### List of Accessories

- ① Body
- ② Front Seat
- ③ Valve Shaft
- ④ Front Disc
- ⑤ Main Spring
- ⑥ Rear Seat
- ⑦ Rear Disc
- ⑧ Guide Bush
- ⑨ Aux Spring
- ⑩ Drainer



### Overall Dimensions

Size (mm)	50	65	80	100	125	150	200	250	300
L (mm)	190	210	225	250	300	340	400	460	540
B (mm)	165	185	200	215	250	280	340	405	460
H (mm)	190	205	225	252	290	318	370	500	560

### Installation and Maintenance

To facilitate installation and maintenance and ensure the normal use of the backflow prevention device, the control valve and the strainer should be installed before the backflow prevention device and the flexible connector, and the control valve should be installed after the backflow prevention device.

At the drain outlet of the backflow prevention device, a drain pipe should be installed about ≥100 mm above the water collecting well. No valve should be installed in the drain pipeline to block the flow of the medium. The drainage diameter of the water collecting well should ensure smooth drainage.

To facilitate routine inspection and maintenance, the low-resistance backflow prevention device should not be installed in the outdoor well. It is recommended to install the backflow prevention device indoor, with sufficient reserved space. Generally the spacing to the lower edge should be ≥300 mm for convenient installation and maintenance.

The low-resistance backflow prevention device can be installed horizontally or vertically and the flow direction of medium in pipelines should be in line with the direction indicated by the arrow marked on the basic valve body.

Before installation, the pipe network must be thoroughly cleaned. Besides, the strainer screen of the strainer must be cleaned regularly.