



Backflow Preventer with Controllable Reduced Pressure Zone Fig. BA4760

Product Description

The BA4760 backflow preventer with controllable reduced pressure zone is designed to protect drinking water networks. It prevents from polluted water backflows in the public and the private networks. This sanitary safety device is compliant with the EN12729 standard. It is composed of:

- Three pressure areas: upstream, intermediate and downstream chamber
- Two independent non-return devices separating the intermediate zone from each other areas, normally closed when there is no water
- A discharge device (in open air) in the intermediate zone, normally open in water off position.

Application

The BA 4760 backflow preventer is designed to protect drinking water networks against risky fluids (up to category 4) according to NF EN1717.

The device is designed to prevent any backflow of polluted water into the drinking water supply network as a result of back pressure or back siphonage when the pressure upstream of the device is lower than the pressure downstream of it.

For systems liable to generate pollution risks such as:

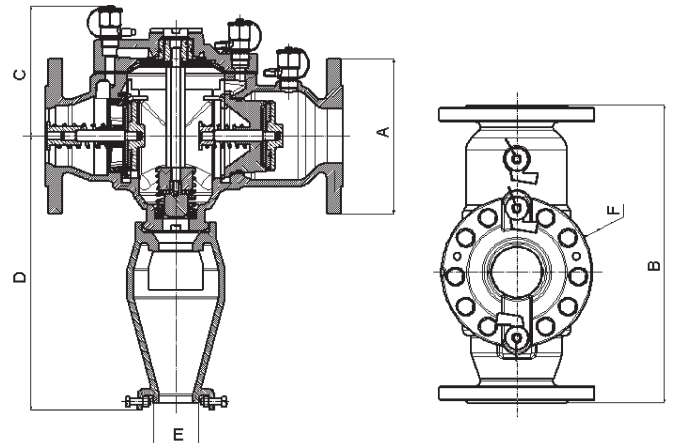
- Professional networks: industrial facilities, surface treatment, chemical industry
- Sanitary networks: hospitals, laboratories, dialysis centers, water treatment
- Technical networks: heating, air conditioning, irrigation, water dispensers, sprinklers

Technical Specification

Operating Temperature	Max 65°C
Permissible Operating Pressure (PFA) - water	10 bar
Connection	PN10
Mediums	Clean water

Sizes		PFA in bar	Weight kg
mm	inch		
DN65	2 1/2"	10	11.5
DN80	3"	10	14.5
DN100	4"	10	20.2
DN150	6"	10	42
DN200	8"	10	65
DN250	10"	10	94

Double drilling : DN65/DN60
Double drilling : 4 and 8 holes



Dimensions

Sizes		A	B	C	D	E	F	Max Acceptable Torques - Nm*
mm	inch	mm	mm	mm	mm	mm	mm	
DN65	2 1/2"	185	356	155	326	63	180	40
DN80	3"	200	440	173	337	63	200	40
DN100	4"	220	530	201	434	80	255	40
DN150	6"	285	630	230	456	80	310	110
DN200	8"	340	763	272	499	80	390	300
DN250	10"	395	763	272	499	80	390	300

* Maximum torque for tightening bolts of the backflow preventer cover

Backflow Preventer with Controllable Reduced Pressure Zone

Fig. BA4760

Installation

Directions for installation

- Total accessibility
- Non-submersible installation
- Purge carefully all air from the installation (non-polluted atmosphere)
- The discharge valve must be able to cope with the discharge flow rate
- Protection against frost or extreme temperatures
- In the case of an upstream diversion in the area right in front of the RPZ, it is necessary to install a check valve between the diversion and the RPZ.
- Always manipulate the upstream valve slowly for a progressive pressurization of the RPZ.

According to the national recommendations, the backflow preventer 4760:

- Have to be installed by a qualified technician.
- Have to be subject to a commissioning notice in accordance with the installation rules of BA set of protection.

Implantation, it is mandatory to install

To make a BA set of protection as described in NF EN 1717, the BA 4760 backflow preventer must be installed with the following accessories:

Upstream:

- Shut-off valve (butterfly valve)
- A strainer with flushing valve type Y333P

Downstream:

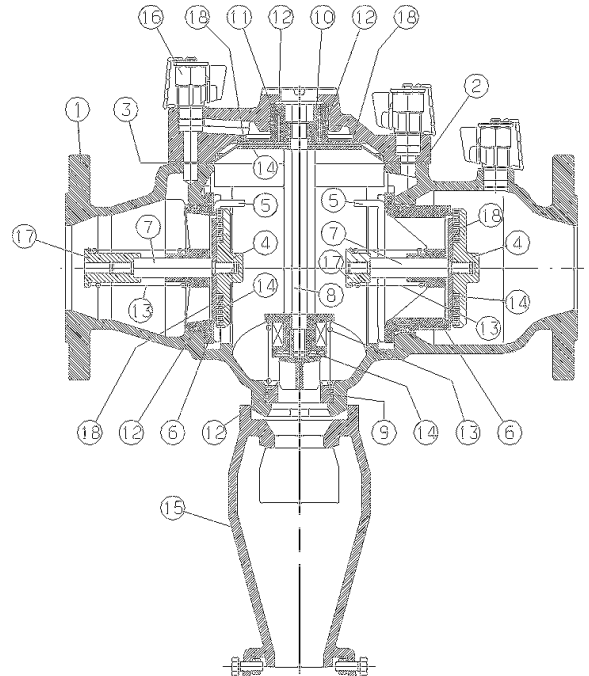
- Shut-off valve (butterfly valve)

Maintenance

In accordance with the regulations, maintenance must be done on site. Only an approved maintainer (with an authorization number) can work on the backflow preventer.

The mandatory annual operating check of the BA backflow preventer have to be done with a control device compliant with the NF P43-018 standard (WATTS 2234900M2 type). This equipment must be regularly checked at least once every two years.

Repair kits: Spare parts are available and allow the replacement of each specific defective parts of BA 4760 backflow preventer.



Material Specification

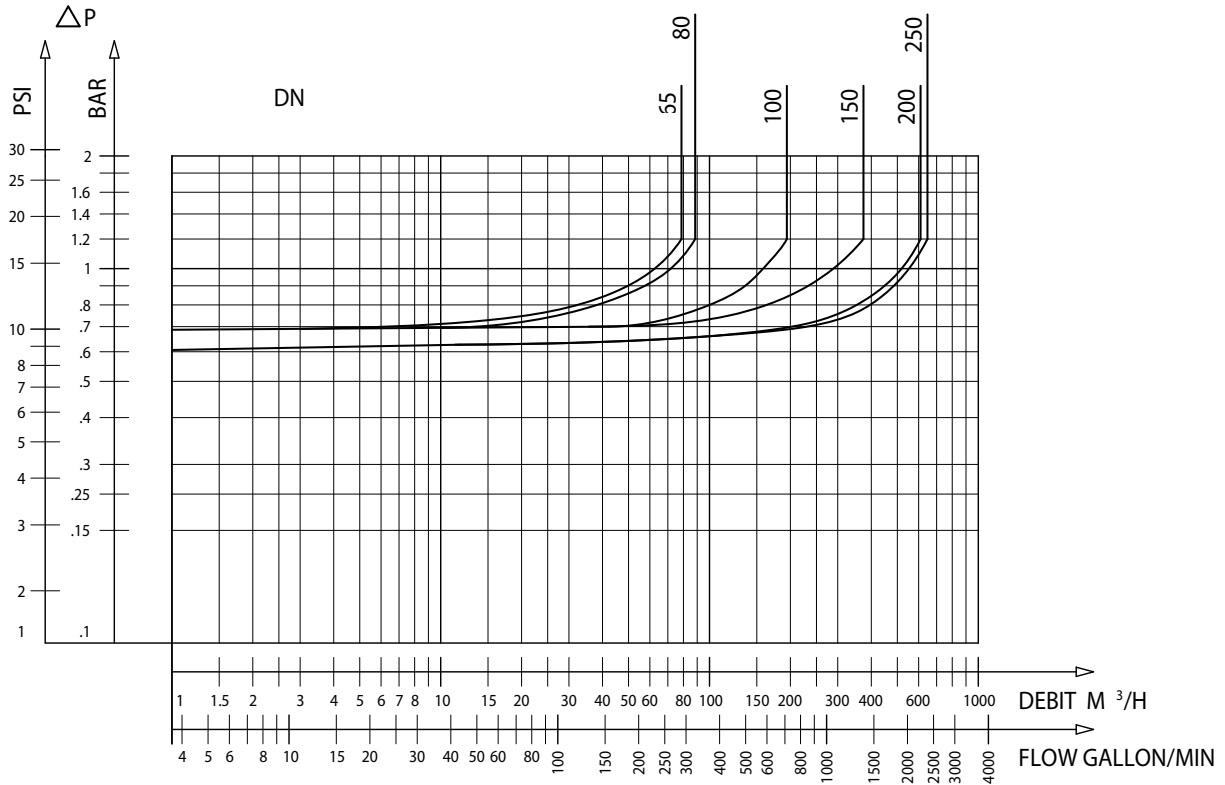
No	Description	Materials
1	Body	Cast Iron - DN65 - DN80 Ductile Iron - DN100 - DN250
2	Cap	Cast Iron - DN65 - DN80 Ductile Iron - DN100 - DN250
3	Membrane	EPDM
4	Closing System	Brass - DN65 - DN150 Bronze - DN200 - DN250
5	Rings	Stainless Steel
6	Closing System Seat	PRO - DN65 - DN80 Bronze - DN100 - DN250
7	Closing System Stem	Stainless Steel
8	Drain Valve Stem	Brass
9	Drain Valve Seat	Stainless Steel
10	Drain Valve Head	Bronze - DN65 PPO - DN80 - DN250
11	Drain Valve Guide	Brass - DN65 POM - DN80 Bronze - DN100 - DN250
12	O-ring	EPDM
13	Spring	Stainless Steel
14	Flat Seal	EPDM
15	Funnel	Ductile Iron
16	Ball Valve	Brass
17	Stop Guide	Brass
18	Disc	Stainless Steel



Backflow Preventer with Controllable Reduced Pressure Zone Fig. BA4760

Direction for use

- Solid line: valve completely open



BA 4760 - Headloss chart