

BA 4760

Backflow preventers with controllable reduced pressure zone

Technical Data Sheet



Description

The backflow preventers with controllablereduced pressure zone BA 4760 is composed by three pressure areas : upstream, intermediate and downstream chamber, two independent non-return devices separating the intermediate zone from each other areas, normally closed when no water and a discharge device (in open air) in the intermediate zone, normally open in water off position.



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DN		PN	PFA in bar	Ref.	Weight Kg
"	mm				
2 1/2*	65	10/16	10	149B3486	25,0
3	80	10/16	10	149B3097	29,5
4	100	10/16	10	149B3098	58,0
6	150	10/16	10	149B3400	83,5
8	200	10	10	149B3401	141,0
10	250	10	10	149B3402	151,0

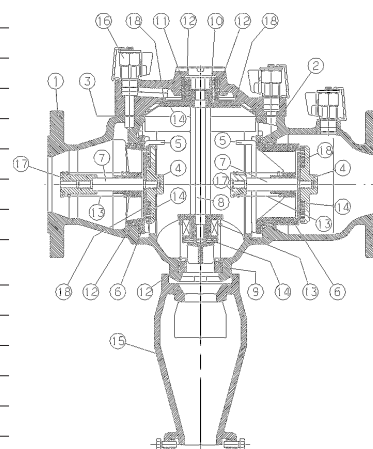
* Double drilling : DN65/DN60
Double drilling : 4 and 8 holes

Technical features

Operating temperature	Maxi. 65 °C
Permissible operating pressure (PFA) in water	10 bar
Connection	With flanges - PN (see table)
Mediums	Clears water

Nomenclature and materials

N°	Description	Materials	EURO	ANSI
1	Body	DN 65 to 80 Cast iron	EN-GJL-250	ASTM A 48 35 B
		DN 100 to 250 Ductile iron	EN-GJS-400-15	ASTM A 536 65-45-12
2	Cap	DN 65 to 80 Cast iron	EN-GJL-250	ASTM A 48 35 B
		DN 100 to 250 Ductile iron	EN-GJS-400-15	ASTM A 536 65-45-12
3	Membrane	EPDM		
4	Closing system	DN 65 to 150 Brass	CuZn35Pb1.5AlAs	
		DN 250 Bronze	CuSn5Zn5Pb2-C	
5	Rings	Stainless steels	X10CrNi18-8	AISI 302
6	Closing system seat	DN 65 to 80 PPO		
		DN 100 to 250 Bronze	CuSn5Zn5Pb2-C	
7	Closing system stem	DN 65 Stainless steels	X5CrNi18-9	
		DN 80 to 250	X5CrNi18-10	AISI 304
8	Drain valve stem	Brass	CW625N R350mini	
9	Drain valve seat	DN 65 to 100 Stainless steels	X5CrNi18-10	AISI 304
		DN 150 to 250 Stainless steels	X2CrNi19-11	
10	Drain valve head	DN 65 Bronze	CuSn5Zn5Pb2-C	
		DN 80 to 250 PPO		
11	Drain valve guide	DN 65 Brass	CW625N R350mini	
		DN 80 POM	Hostaform C 9021 naturel	
		DN 100 to 250 Bronze	CuSn5Zn5Pb2-C	
12	O-ring	EPDM		
13	Spring	Stainless steels	X10CrNi18-8	AISI 302
14	Flat seal	EPDM		
15	Funnel	Ductile iron	EN-GJS-400-15	ASTM A 536 65-45
16	Ball valve	Brass	CuZn40Pb2	
17	Stop guide	Brass	CW625N R350mini	
18	Disc	Stainless steels	X5CrNi18-10	AISI 304



Approvals



International construction Standards :

NF EN12729 - EN 1717

Flange connection according to EN 1092-2

Application

The backflow preventers with verifiable reduced pressure zone BA 4760, certifié  Antipollution is integrated in a set of protection, is for the protection of drinking water networks against the return of polluted fluid from categories 4 according to the norms NF EN 1717 to March 2001.

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 get the discharge flow rate
- protection against frost or extreme temperatures

Installation specification : the correct installation requires :

- upstream : stop valve + filter (with washing cock)
- downstream : stop valve (See technical manual supplied with the RPZ)

Protection at the connection point to the public potable water system.

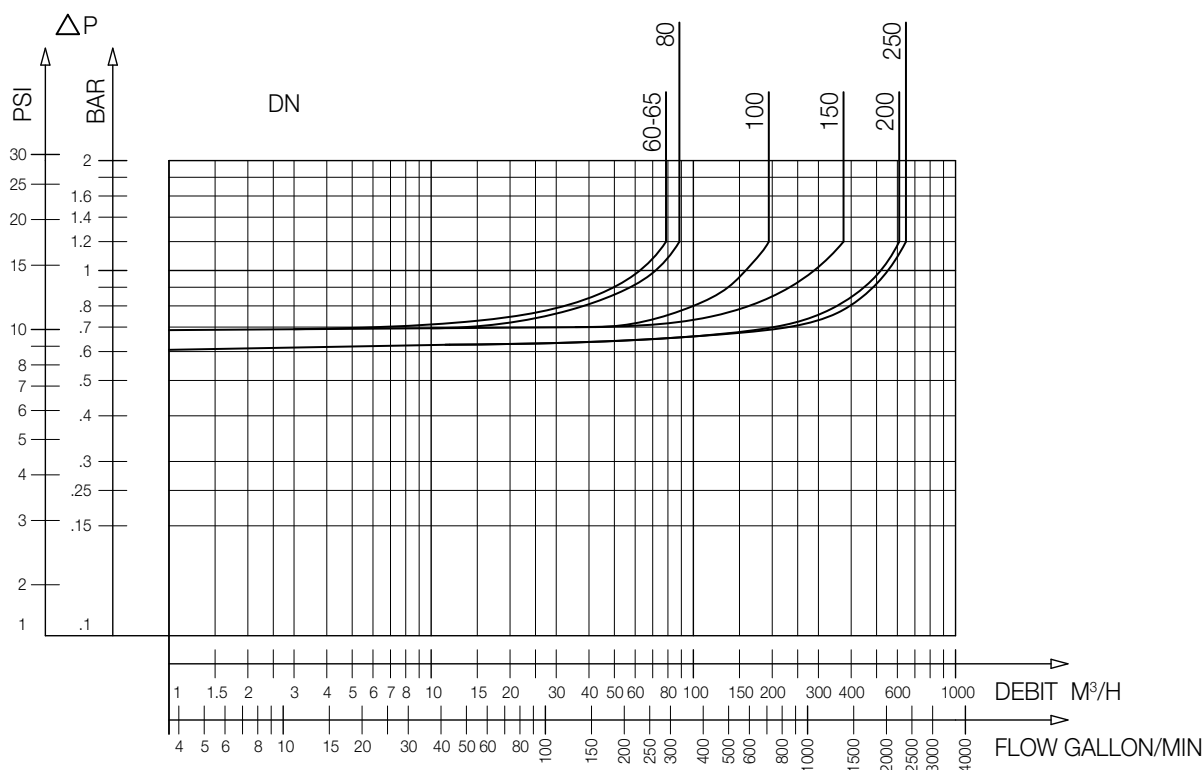
Maintenance

- In accordance with antipollution standard and hygiene regulations, the user undergoes the following requirements :
 - . declaration of intention of installation, 2 months before doing the work
 - . declaration of putting into service
 - . annual performance check (maintenance), including the accessories which are part of the protection device ; the results are communicated to the health authorities
- 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.

Operation

Direction for use :

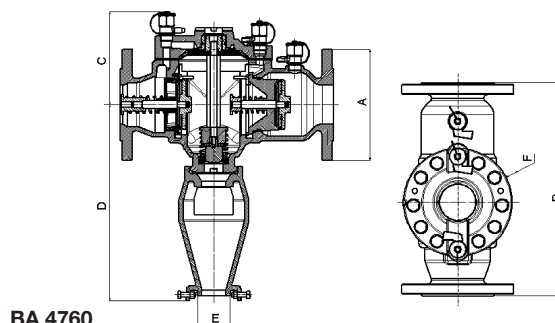
- Solid line: Valve completely open



Sizing

DN		A	B	C	D	E	F	Max. acceptable torques *
"	mm	mm	mm	mm	mm	mm	mm	Nm
2 1/2	65	185	356	155	326	63	180	40
3	80	200	440	173	337	63	200	40
4	100	220	530	201	434	80	255	40
6	150	285	630	230	456	80	310	110
8	200	340	763	272	499	80	390	300
10	250	395	763	272	499	80	390	300

* Maximum torque for tightening bolts of the backflow preventer cover



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ISO 9001 version 2015 / ISO 18001