

EA 453

EA antipollution non-return valves
System 03

Technical Data Sheet



Description

The non-return valve EA 453 is certified to the NF antipollution norms. This non-return valve is designed for the protection of drinking water network against polluted backflow which has no recognized toxic or microbiological risks to human health. It is particularly suitable for mounting after watermeter.

- Approval according to EN 13959
- Operates in any position
- Excellent sealing at high as well as low pressure (NF)
- Inspection cover to check and replace internal parts without dismantling the device
- Interchangeable closing kit without specific tools
- 2 drilled bosses with test cocks 1/2"(except DN 40/50 : 1/4")
- 1 boss with drain plug 1/2"(except DN 40/50 : 1/4")



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DN mm	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
		L1	L2	G1	G2			
40/50	16	16	16	16	16	I	149B3831	7,65
60/65	16	16	16	15	16	I	149B3832	11,45
80	16	16	16	12	16	I	149B3833	14,36
100	16	16	16	10	16	I	149B3834	20,2
150	16	16	16	0,5	16	I	149B3836	42
200	10	10	10	0,5	10	I	149B3837	65
250	10	10	10	0,5	10	I	149B3838	94

Important notice :

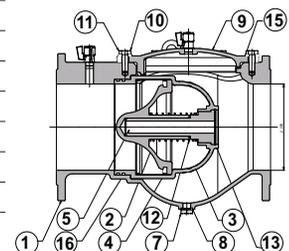
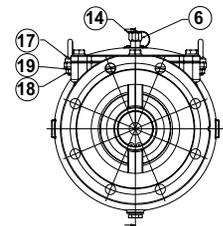
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.

Technical features

Operating temperature	-10 °C at 100 °C
Permissible operating pressure (PFA) in water	See table above
Maximum permissible pressure (PS) other mediums	See table above
Connection	With flange (see table)
Mediums	Clear water, gas

Nomenclature and materials

N°	Description	Materials	EURO	ANSI
1	Body	Cast iron/Epoxy	EN 1563-EN-GJS-400-15	ASTM A 536 65-45-12
2	Closing system	Brass (Ø50 at 150)	EN12165 CuZn35Pb1.5AlAs-H060	
		Bronze (Ø200-250)	EN1982 CuSn5Zn5Pb2-C GS	
3	Seat	Stainless steels	EN10213 GX5CrNi19-10+AT	304 H (SAE)
4	Flat seal	EPDM		
5	Stem	Brass (Ø50 at 150)	EN12165 CuZn35Pb1.5AlAs-H060	
		Brass Ø200	EN12164 CW625N R350mini 4MS	
6	Valve	Brass Ø250	EN1982 CuZn39Pb1Al-C GM	
		Brass Ø50	EN12165 CW602N H070 DIN50930	
7	Plug	Brass	EN 12165-CuZn36Pb2As-H070	
8	O-ring	EPDM		
9	Cap	Cast iron/Epoxy	EN 1563-EN-GJS-400-15	ASTM A 536 65-45-12
10	Screw	Stainless steels	EN10088-3 X5CrNi18-10	AISI 304
11	Washer	Stainless steels	EN10088-3 X5CrNi18-10	AISI 304
12	Spring	Stainless steels	EN10270-3 X10CrNi18-8	AISI 302
13	Circlips	Stainless steels	EN10088-3 X5CrNi18-10	AISI 304
14	Cover	PE	Polyethylene	
15	O-ring	EPDM		
16	O-ring	EPDM		
17	Lift ring	Steels (Ø150 at 250)	EN 10025-S235JR	
18	Nut	Stainless steels (Ø150 at 250)	EN10088-3 X5CrNi18-10	AISI 304
19	Washer	Stainless steels(Ø150 at 250)	EN10088-3 X5CrNi18-10	AISI 304



Approvals



International construction Standards :

Flanges connection according to EN 1092-1 and EN 1092-2

Sizing according to EN558-1 series 48 EN 1717

CE conformity directive according to 2014/68/UE

NF antipollution according to NF EN 13959 - EN1717

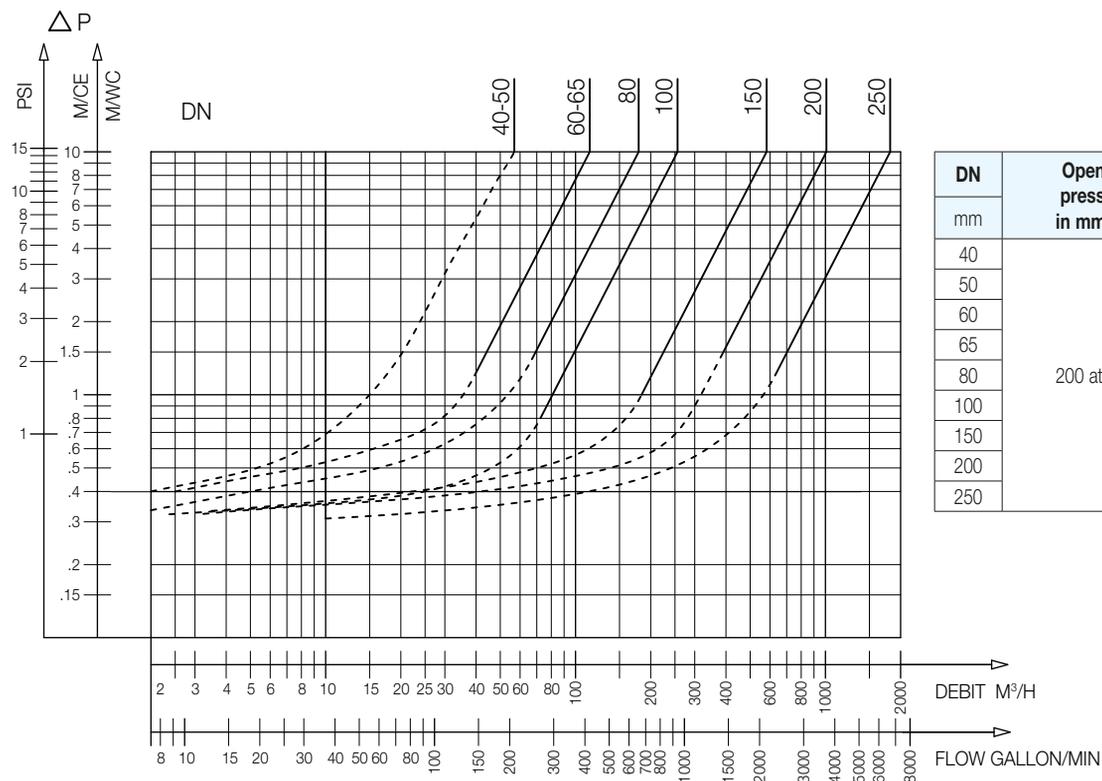
Application

Housing, water distribution, protection of drinking water networks.

Operation

Direction for use :

- Solid line: Valve completely open
- Dotted line: opening stage of valve

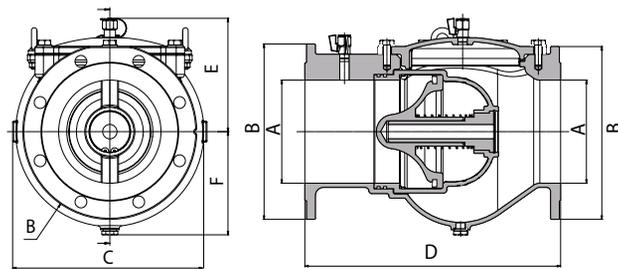


EA 453 - Headloss chart

Sizing

A	B	C	D	E	F
mm	mm	mm	mm	mm	mm
40/50	165	-	200	113	80
60/65	185	-	240	118	93
80	200	-	260	131	98
100	222	-	300	141	115
150	285	-	400	197	144
200	340	380	500	220	200
250	400	438	600	256	235

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