



Data Sheet 1.123

Issue A



Antipollution non-return valve Fig. EA453

Product 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.

Features

- 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")

Application

Housing, water distribution, protection of drinking water networks.

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

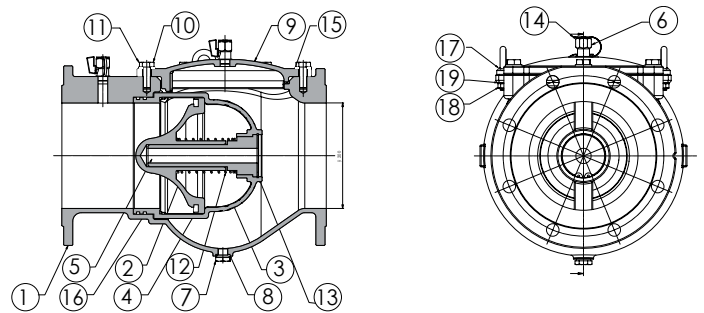
NF antipollution according to NF EN 13959 - EN1717

Technical Specification

Operating Temperature	-10°C - 100°C
Permissible Operating Pressure (PFA) - water	See Table Below
Maximum Permissible Pressure (PS) Other Mediums	See Table Below
Connection	Flange (see table)
Mediums	Clear Water, Gas

Sizes		PFA in bar	PS in bar				Cat.	Weight kg
mm	inch		L1	L2	G1	G2		
DN40/50	2"	16	16	16	16	16	I	7.6
DN60/65	2 1/2"	16	16	16	15	16	I	11.5
DN80	3"	16	16	16	12	16	I	14.5
DN100	4"	16	16	16	10	16	I	20.2
DN150	6"	16	16	16	0.5	16	I	42
DN200	8"	10	10	10	0.5	10	I	65
DN250	10"	10	10	10	0.5	10	I	94

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.



Material Specification

No	Description	Materials
1	Body	Cast Iron / Epoxy
2	Closing System	Brass - DN50 - DN150 Bronze - DN200 - DN250
3	Seat	Stainless Steel
4	Flat Seal	EPDM
5	Stem	Brass
6	Valve	Brass
7	Plug	Brass
8	O-ring	EPDM
9	Cap	Cast Iron / Epoxy
10	Screw	Stainless Steel
11	Washer	Stainless Steel
12	Spring	Stainless Steel
13	Circlips	Stainless Steel
14	Cover	PE - Polyethylene
15	O-ring	EPDM
16	O-ring	EPDM
17	Lift Ring	Steel
18	Nut	Stainless Steel
19	Washer	Stainless Steel

DS: 1.123
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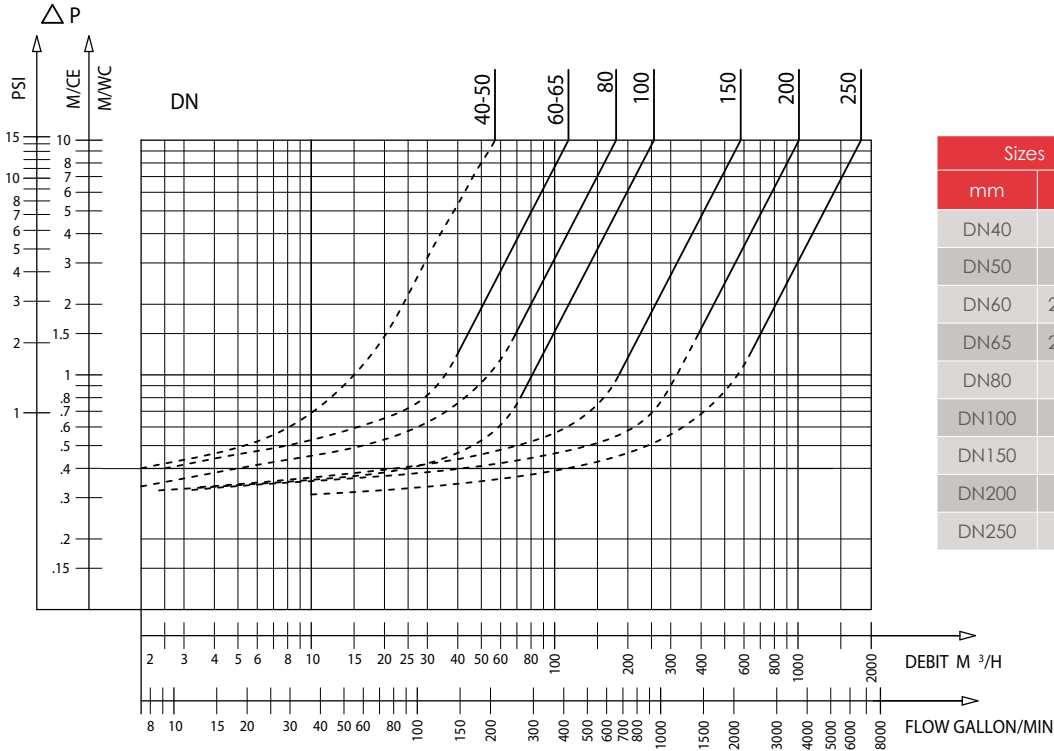
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Antipollution non-return valve Fig. EA453

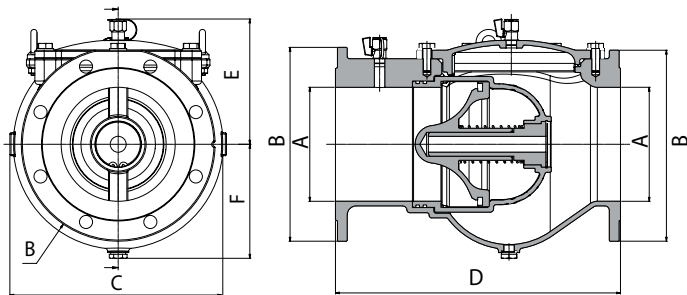
Direction for use

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



EA 453 - Headloss chart

Sizes		Opening Pressure in mm/CE	KV	ζ
mm	inch		m³/H	
DN40	2"	200 at 400	56.9	1.85
DN50	2"	200 at 400	56.9	3.1
DN60	2 1/2"	200 at 400	114.6	1.57
DN65	2 1/2"	200 at 400	114.6	2.2
DN80	3"	200 at 400	179.1	2.05
DN100	4"	200 at 400	256.9	2.4
DN150	6"	200 at 400	581.7	2.4
DN200	8"	200 at 400	1009	2.5
DN250	10"	200 at 400	1816.9	1.9



Dimensions

Sizes		A	B	C	D	E	F
mm	inch	mm	mm	mm	mm	mm	mm
DN40/50	2"	40/50	165	-	200	113	80
DN60/65	2 1/2"	60/65	185	-	240	118	93
DN80	3"	80	200	-	260	131	98
DN100	4"	100	222	-	300	141	115
DN150	6"	150	285	-	400	197	144
DN200	8"	200	340	380	500	220	200
DN250	10"	250	400	438	600	256	235