

# 427

Membrane non-return valve

M system

## Technical Data Sheet



## Description

This valve is designed for installations that generate significant water hammer. It is very reliable and quiet (no mechanical moving parts, anti-incrustation closing system and seat). Ideal for booster pumps, sprinkler systems, motor or electric pump units and compressed air circuits. On membrane check valves, the opening set by the elasticity and the thickness of the membrane is very progressive and can be obtained as a result of a few centimeters of W/C. Because of this, this check valve is particularly suitable for variable flow pumps and pulsatory operation

- Operates in any position
- Does not generate hammering
- Sealing ensured by membrane's self-closing
- Closing system: flexible membrane (thick elastomer disc) held in its center on a metal seat composed of a grid (flow equivalent to the nominal section)



## 427

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DN	PN	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
			L1	L2	G1	G2			
1 1/2	40	10/16	16	16	16	16	I	<b>149B2268</b>	6,9
2	50	10/16	16	16	16	16	I	<b>149B2269</b>	8,9
2 1/2	65	10/16	16	16	15	16	I	<b>149B2270</b>	11,9
3	80	10/16	16	16	12	16	I	<b>149B2271</b>	15,9
4	100	10/16	16	16	10	16	I	<b>149B2272</b>	19,5
5	125	10/16	16	16	0,5	16	I	<b>149B2273</b>	25,4
6	150	10/16	16	13	0,5	16	I	<b>149B2274</b>	39,5
8	200	10	10	10	0,5	10	I	<b>149B2275</b>	81,6

### Important notice :

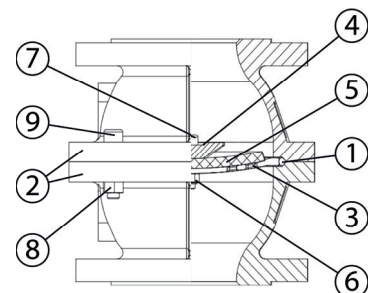
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our website [www.socla.com](http://www.socla.com) or by requesting from our sales department.

### Technical features

Operating temperature	-10 °C to 60 °C
Permissible operating pressure (PFA) in water	See table above
Maximum permissible pressure (PS) other mediums	See table above
Connection	Flanges drilled PN (see table)
Mediums	Water, clear liquids

### Nomenclature and materials

N°	Description	Materials
1	O-ring	EPDM
2	Body	Cast iron/epoxy GJL-250
3	Seat	DN 40 to 80 Stainless steel DN 100 to 200 Rilsan coated steel
4	Cup	DN 40 to 65 Stainless steel DN 80 to 200 Brass
5	Membrane	EPDM
6	Nut	Stainless steel 304
7	Screw	Galvanised steel 304
8	Nut	Stainless steel 304
9	Screw	Stainless steel 304



# Approvals

**ACS** **CE** PED 2014/68/UE

**International construction Standards :**  
 CE conformity directive 2014/68/UE  
 Thread connection according to EN1092-2

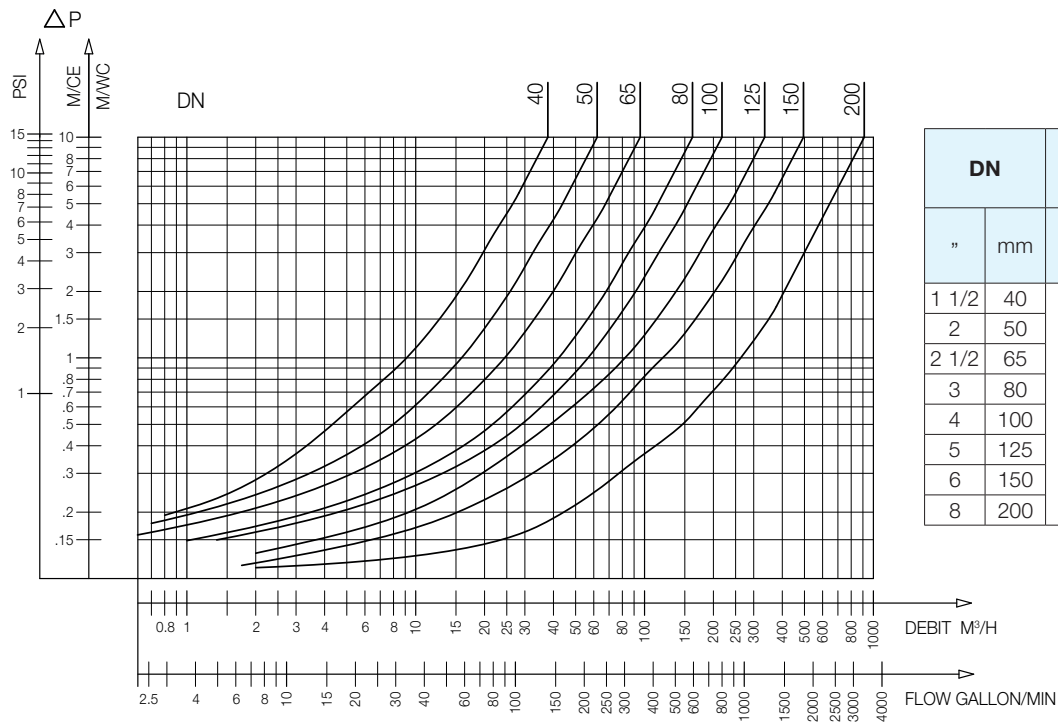
# Application


Water network, variable flow.

# Operation

**Direction for use :**

- Solid line: Valve completely open

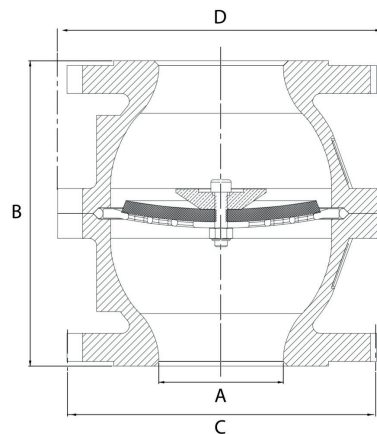


DN		Opening pressure in mm/CE	Kv	ζ
"	mm		m³/H	
1 1/2	40	Near to 0	37,8	2,86
2	50		61,15	2,67
2 1/2	65		95,3	3,14
3	80		162	2,49
4	100		218,7	3,34
5	125		335,3	3,47
6	150		495	3,3
8	200		912,4	3,07

427 - Headloss chart

## Sizing

A		B	C	D
"	mm	mm	mm	mm
1 1/2	40	148	150	140
2	50	158	164	159
2 1/2	65	176	183	169
3	80	196	200	212
4	100	213	220	234
5	125	228	250	250
6	150	266	285	324
8	200	439	340	426



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