

207

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. Alternating operation. 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
- Minimum head loss
- Does not generate hammering, very silent
- 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)



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DN	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
		L1	L2	G1	G2			
3/8	12/17	16	16	16	16	4.3	149B2019	0,15
1/2	15/21	16	16	16	16	4.3	149B2100	0,85
3/4	20/27	16	16	16	16	4.3	149B2101	0,85
1	26/34	16	16	16	16	4.3	149B2102	1,30
1 1/4	33/42	16	16	16	16	I	149B2103	1,60
1 1/2	40/49	16	16	16	16	I	149B2104	2,60
2	50/60	16	16	16	16	I	149B2105	4,00
2 1/2	66/76	16	16	16	15	I	149B2106	6,40
3	80/90	16	16	16	12	I	149B2107	12,00

Important notice :

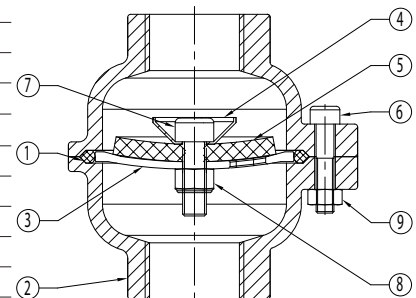
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our website www.socla.com or by requesting from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

Technical features

Operating temperature	-10 °C at 60 °C
Permissible operating pressure (PFA) in water	See table above
Maximum permissible pressure (PS) other mediums	See table above
Connection	Female / Female, BSP
Mediums	Clear liquids, gas

Nomenclature and materials

N°	Description	Materials	EURO	ANSI
1	O-ring	EPDM		
2	Body	DN 3/8"	Aluminium	EN AC-AISI7Mg0.3
		DN 1/2" to 3"	Cast iron/Epoxy	EN-GJL-250 ASTM A 48 35 B
3	Seat	DN 3/8"	Aluminium	
		DN 1/2" to 3"	Stainless steel	CB7Cu-1
4	Cup	DN 3/8"	Aluminium	EN AW-AlCu4MgSi
		DN 1/2" to 2"1/2	Stainless steel	X6Cr17 AISI 430
		DN 3"	Brass	CuZn39Pb3
5	Membrane	NR		
6	Screw	Stainless steel	X5Cr-Ni18-10	AISI 304
7	Screw	Stainless steel	X5Cr-Ni18-10	AISI 304
8	Nut	Stainless steel	X5Cr-Ni18-10	AISI 304
9	Nut	Galvanised steel		



Approvals



International construction Standards :
CE conformity directive 2014/68/UE
Thread connection NFE 03-005 ISO228

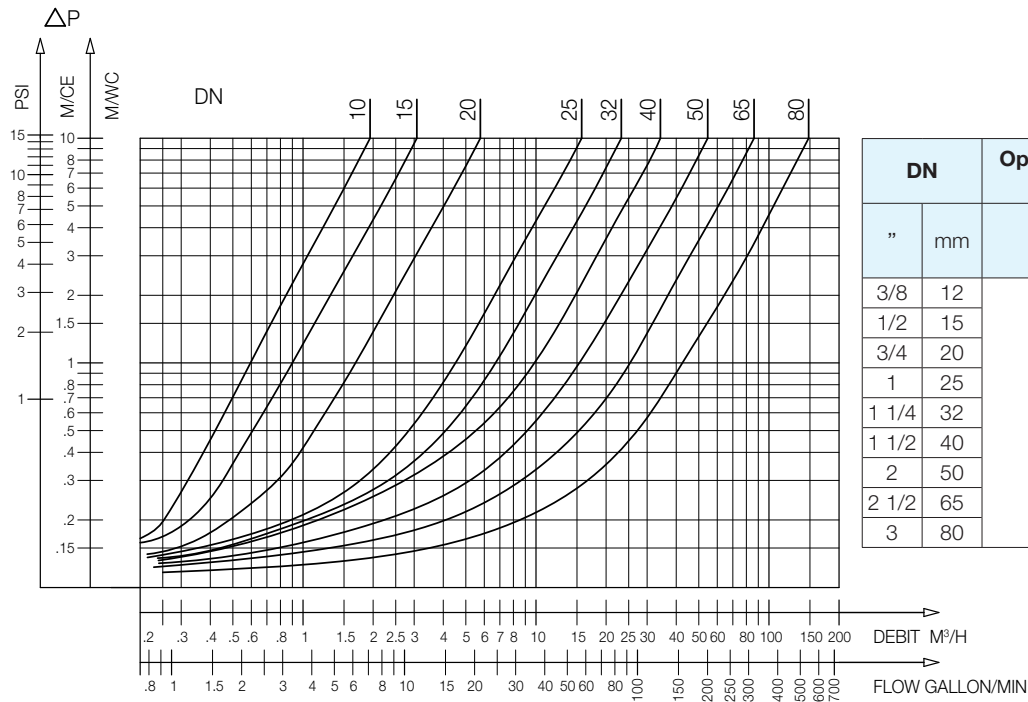
Application

Booster pumps, compressed air circuits, vacuum pumps.

Operation

Direction for use :

- Solid line: Valve completely open

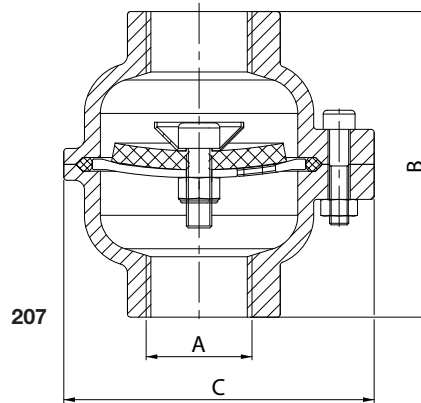


DN		Opening pressure in mm/CE	Kv	ζ
"	mm		m ³ /H	
3/8	12	Near to 0	1,95	8,8
1/2	15		3,1	8,5
3/4	20		5,8	7,7
1	25		15,7	2,55
1 1/4	32		23,25	3,1
1 1/2	40		34,2	3,5
2	50		54,6	3,4
2 1/2	65		86,3	3,85
3	80		148,4	3

207 - Headloss chart

Sizing

A		B	C
"	mm	mm	mm
3/8	12/17	67,5	60
1/2	15/21	86	88
3/4	20/27	86	88
1	26/34	96	97,5
1 1/4	33/42	100	107,5
1 1/2	40/49	132	123,5
2	50/60	172	139,5
2 1/2	66/76	196	170
3	80/90	234	214



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