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

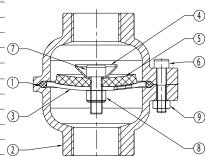
Important notice:

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 Pody	DN 3/8"	Aluminium	EN AC-AISi7Mg0.3	
2 Body	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	
	DN 3/8"	Aluminium	EN AW-AlCu4MgSi	
4 Cup	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

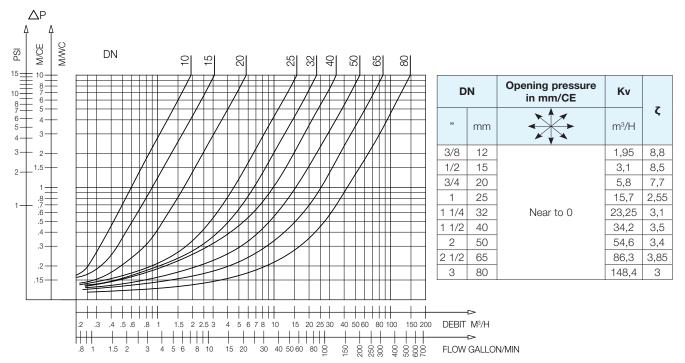
Application

Booster pumps, compressed air circuits, vacuum pumps.

Operation

Direction for use:

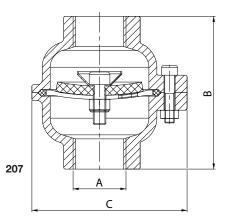
• Solid line: Valve completely open



207 - Headloss chart

Sizing

/	4	В	С
,,	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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Socla sas

365 rue du Lieutenant Putier • 71530 Virey-Le-Grand • France
Tel. +33 03 85 97 42 00 • Fax +33 03 85 97 42 42
contact@wattswater.com • www.socla.com
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