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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
- Low head loss
- 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)



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Membrane non-return valve - M system

DN		PN	PFA	PS in bar				Cat.	Ref.	Weight
"	mm	FIN	in bar	L1	L2	G1	G2	Oat.	ner.	Kg
2 1/2	65	10/16	16	16	16	15	16		149B2842	11,9
3	80	10/16	16	16	16	12	16		149B2843	16,5
4	100	10/16	16	16	16	10	16		149B2844	26,3
5	125	10/16	16	16	16	0,5	16		149B2845	33,2
6	150	10/16	16	13	16	0,5	16		149B2846	49,8
8	200	10	10	10	10	0,5	10		149B2847	87,3

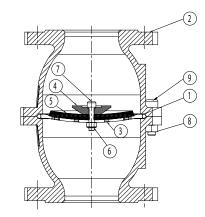
Important notice:

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 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	Clear liquids, gas	

Nomenclature and materials

N°	Description		Materials	EURO	ANSI
1	O-ring		EPDM		
2	Body		Cast iron / Epoxy	EN-GJL-250	ASTM A 48 35 B
3	Seat	DN 40-80 mm	Stainless steel		
		DN 100-200 mm	Steel / Polyamide		
4	Cupel	DN 65 mm	Stainless steel	X6Cr17	AISI 430
		DN 80-200 mm	Brass	CuZn39Pb3	
5	Membrane		NR		
6	Nut		Stainless steel	X5Cr-Ni18-10	AISI 304
7	Screw		Stainless steel	X5Cr-Ni18-10	AISI 304
8	Nut		Galvanised steel		
9	Screw		Stainless steel	X5Cr-Ni18-10	AISI 304





Approvals



International construction Standards:

CE conformity Directive 97/23/UE Flange drilling according to EN1092-2 Length according to EN558-1 48 serie

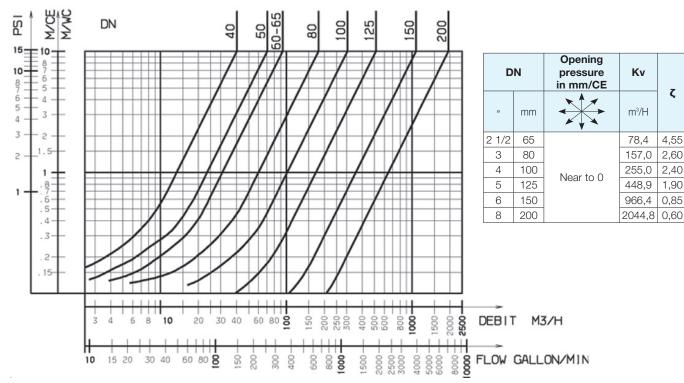
Application

Booster pumps, compressed air circuits, vacuum pumps.

Operation

Direction for use:

• Solid line: Valve completely open



447 - Headloss chart

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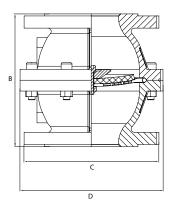
2,60

2,40

1,90

Sizing

D	N	В	С	D
,,	mm	mm	mm	mm
2 1/2	65	240	185	169
3	80	258	200	212
4	100	299	220	234
5	125	347	250	250
6	150	396	285	324
8	200	496	340	426



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The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.

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