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Membrane foot valve

M system

Technical Data Sheet



Description

On membrane foot 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 foot valve is particularly suitable for variable flow pumps and pulsatory operation.

- Operates in any position
- Low head loss
- Does not generate hammering
- Closing system: EPDM tubular membrane deforming towards the suction strainer
- Sealing ensured by the flexible membrane against the cylindrical seat of the body



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DN	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
		L1	L2	G1	G2			
2	50	6	6	x	x	4.3	149B2572	1,88
2 1/2	65	6	6	x	x	4.3	149B2574	3,41
3	80	6	6	x	x	4.3	149B2575	4,38
4	100	6	6	x	x	4.3	149B2577	5,65

Important notice :

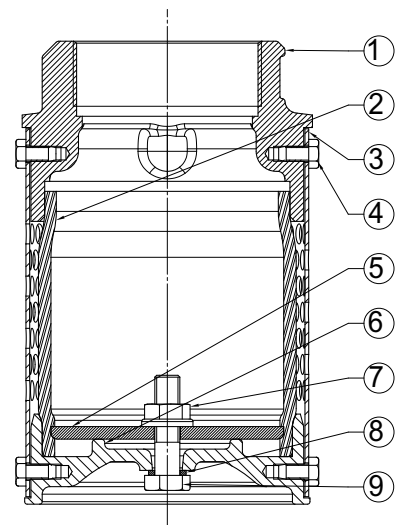
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our website www.socla.com or by requesting from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

Technical features

Operating temperature	0 °C to 60 °C
Permissible operating pressure (PFA) in water	See table above
Maximum permissible pressure (PS) other mediums	See table above
Connection	Female, (BSP and NPT)
Mediums	Clear liquids, slightly loaded liquids (sand)

Nomenclature and materials

N°	Description	Materials	EURO	ANSI
1	Body	Cast iron / Epoxy	EN 1561 EN-GJL-250	ASTM A 48 35 B
2	Sleeve	EPDM		
3	Suction strainer	Galvanised steel		
4	Screw and bolt	Galvanised steel		
5	Washer	Galvanised steel		
6	Base	Cast iron / Epoxy	EN 1561 EN-GJL-250	ASTM A 48 35 B
7	Nut	Galvanised steel		
8	Seal	Copper		
9	Screw	Galvanised steel		



Approvals

ACS

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

Application

Limited operating pressure, irrigation.

Operation

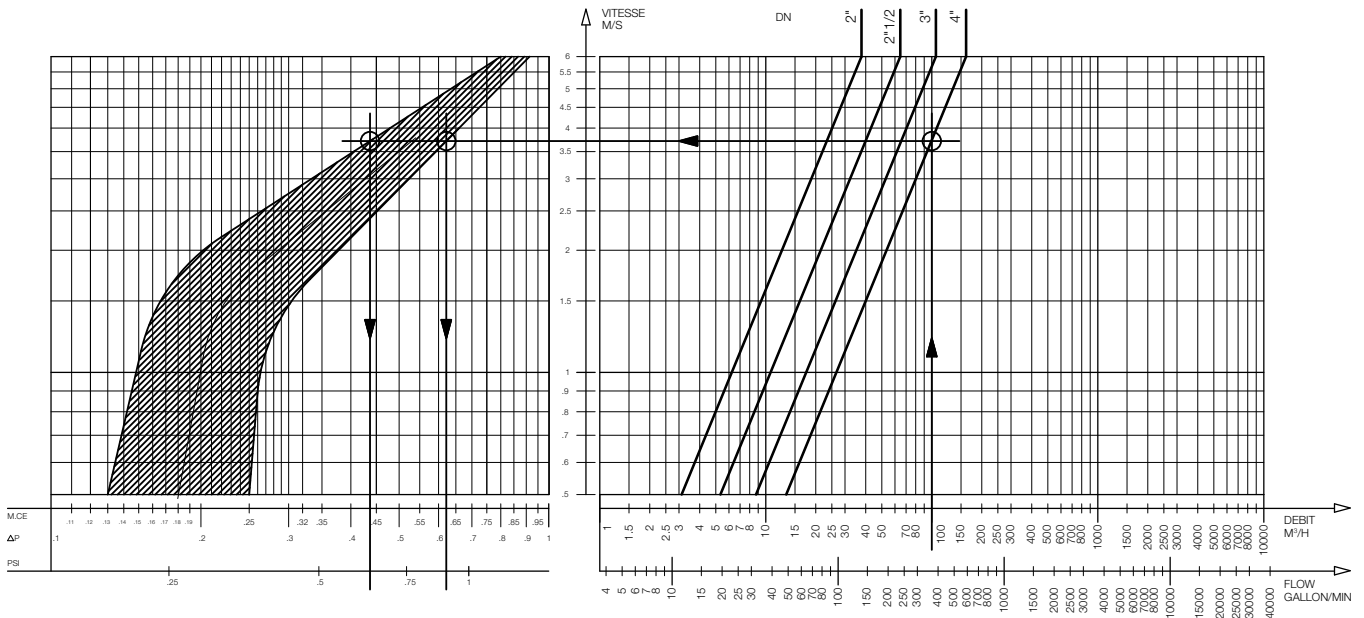
DN		Opening pressure in mm/CE	Kv	ζ
"	mm		m ³ /H	
2	50	Near to 0	113,00	0,77
2 1/2	65		191,00	0,77
3	80		221,00	0,77
4	100		289,00	0,77

Direction for use :

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

Calculation example :

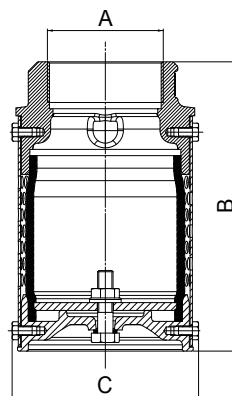
Check valve DN100 : flow 100 m³/H
 Head loss between 0,44 and 0,62 m.CE



337 - Headloss chart

Sizing

A		B	C
"	mm	mm	mm
2	50/60	153	92
2 1/2	66/76	185	121
3	80/90	205	137
4	102/104	230	150



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ISO 9001 version 2015 / ISO 18001