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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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Membrane foot valve - M system

DN	PN	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
			L1	L2	G1	G2			
2	50	10/16	6	6	x	x	4.3	149B2555	3,15
2 1/2	65	10/16	6	6	x	x	4.3	149B2556	4,96
3	80	10/16	6	6	x	x	4.3	149B2558	6,22
4	100	10/16	6	6	x	x	4.3	149B2560	7,58
5	125	10/16	6	6	x	x	4.3	149B2561	10,37
6	150	10/16	6	6	x	x	4.3	149B2562	16,02
8	200	10	6	6	x	x	4.3	149B2564	31,60
10	250	10	6	6	x	x	4.3	149B2565	44,10
12	300	10	6	6	x	x	4.3	149B2566	63,60

Models with drainage kit

8	200	10	6	6	x	x	4.3	149B2564D	
10	250	10	6	6	x	x	4.3	149B2565D	

For DN65 to 150 : see draining system

Important notice :

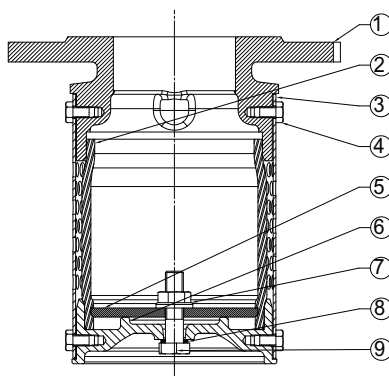
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our website www.socla.com or by requesting from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

Technical features

Operating temperature	-10 °C to 60 °C
Permissible operating pressure (PFA) in water	See table above
Permissible pressure (PS) other mediums	See table above
Connection	Flanges drilled DN (see table)
Mediums	Clear liquids, dirty and sandy liquids

Nomenclature and materials

N°	Description	Materials
1	Body	Cast iron / Epoxy
2	Sleeve	EPDM
3	Suction strainer	Galvanised steel
4	Screw and bolt	Galvanised steel
5	Washer	Galvanised steel
6	Base	Cast iron / Epoxy
7	Nut	Galvanised steel
8	Seal	Copper
9	Screw	Galvanised steel



Approvals

ACS  PED 2014/68/UE
ATEX 2014/34/UE

International construction Standards :

Directive 2014/68/UE

Flange drilling according to EN 1092-2

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
5	125		366,00	0,77
6	150		451,00	0,77
8	200		705,00	0,77
10	250		1015,00	0,77
12	300		1205,00	0,77

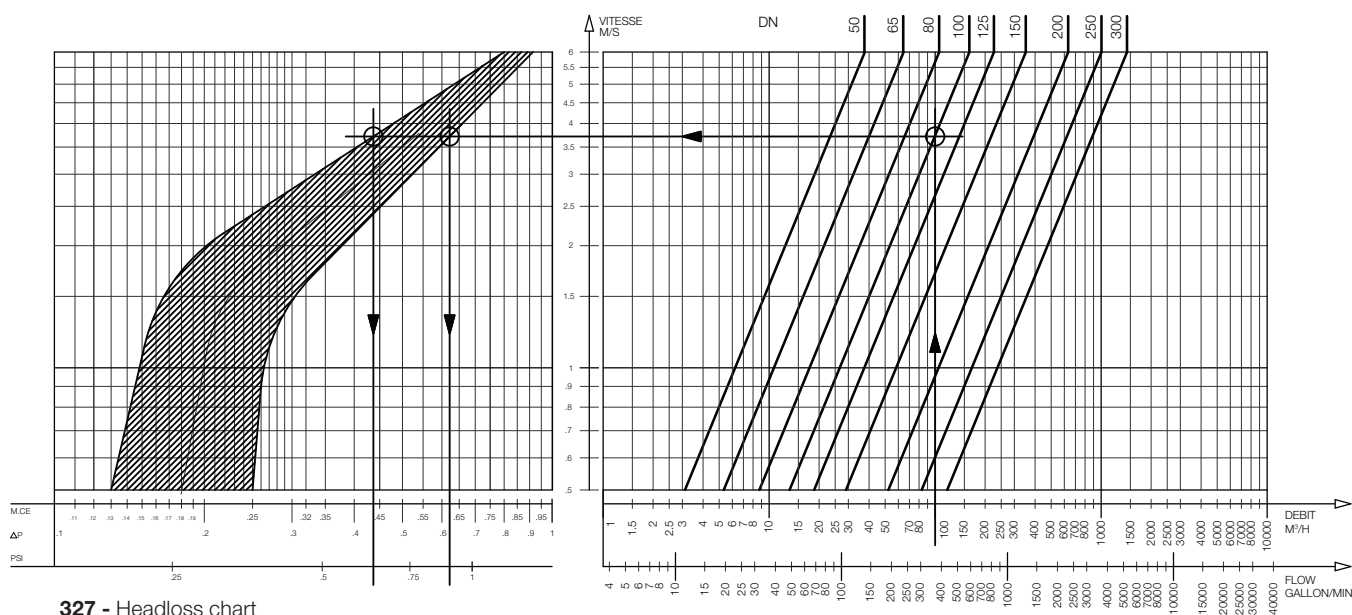
Direction for use :

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

Calculation example :

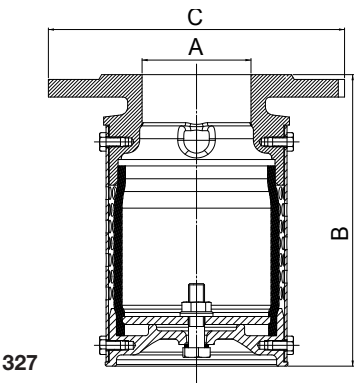
Check valve DN100 : flow 100 m³/H

Head loss between 0,44 and 0,62 m.CE



Sizing

DN		B	C
"	mm	mm	mm
2	50	151	165
2 1/2	65	182	185
3	80	205	200
4	100	228	220
5	125	258	250
6	150	303	285
8	200	385	340
10	250	441	395
12	300	506	445



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