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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
- Closing system: EPDM tubular membrane deforming towards the suction strainer
- Does not generate hammering
- Sealing ensured by the flexible membrane against the cylindrical seat of the body
- Flexible or semi-rigid tube connection



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Membrane foot valve - M system

DN in mm	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
		L1	L2	G1	G2			
30	6	6	6	x	x	4.3	149B2535	1,78
40	6	6	6	x	x	4.3	149B2537	1,88
50	6	6	6	x	x	4.3	149B2539	1,94
60	6	6	6	x	x	4.3	149B2541	3,44
70	6	6	6	x	x	4.3	149B2543	4,40
80	6	6	6	x	x	4.3	149B2544	5,33
90	6	6	6	x	x	4.3	149B2546	5,47
98	6	6	6	x	x	4.3	149B2547	7,50
108	6	6	6	x	x	4.3	149B2548	7,51
138	6	6	6	x	x	4.3	149B2550	13,18
180	6	6	6	x	x	4.3	149B2551	28,50
230	6	6	6	x	x	4.3	149F013316	42,00
276	6	6	6	x	x	4.3	149B2553	67,90

Important notice :

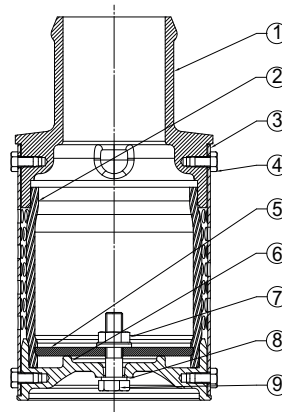
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our website www.socla.com or by requesting from 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	Sleeve, DN 40 to 300mm
Mediums	Clear 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 **CE** PED 2014/68/UE
ATEX 2014/34/UE

International construction Standards :
Directive 2014/68/UE

Application

Limited operating pressure, irrigation.

Operation

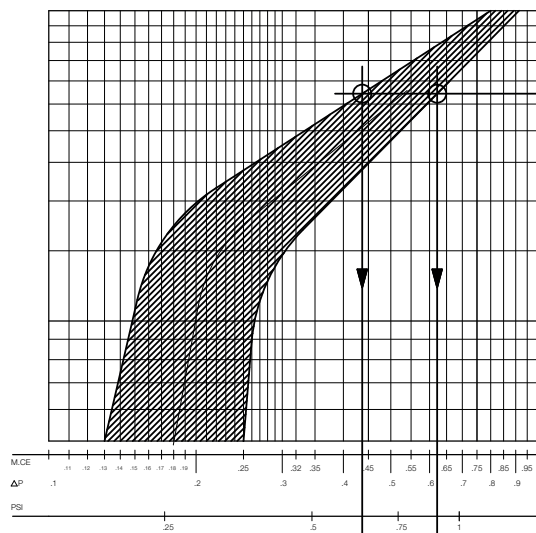
DN		Kv	ζ
"	mm	m ³ /H	
40	30	72,00	0,77
50	40	113,00	0,77
60	50	191,00	0,77
70	60	221,00	0,77
80	70	289,00	0,77
90	80	366,00	0,77
100	90	451,00	0,77
110	98	705,00	0,77
120	108	705,00	0,77
150	138	1015,00	0,77
200	180	1805,00	0,77
250	230	2820,00	0,77
300	276	4061,00	0,77

Direction for use :

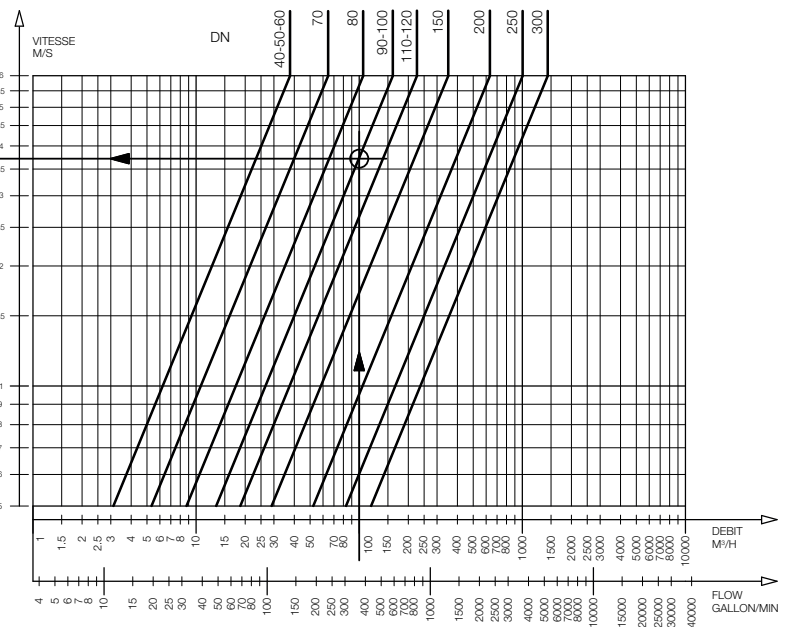
- Solid line : Valve completely open
- Dotted line : opening stage of valve

Calculation example :

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



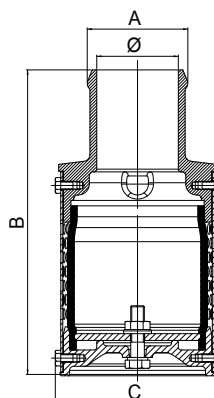
317 - Headloss chart



Sizing

Diam. passage	DN	A	B	C
	mm	mm	mm	mm
40	30	43	172	92
50	40	54	182	92
60	50	64	192	92
70	60	74	224	121
80	70	84	250	137
90	80	94	280	150
100	90	104	290	150
110	98	114	324	165
120	108	124	334	165
150	136	154	405	205
200	180	206	482	276
250	230	258	561	336
300	276	308	656	401

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