

407

Non-return valves with membrane
System M

Technical Data Sheet



Description

These valves are designed for installations that generate significant water hammer. They are 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.

- Operates in any position
- Low head loss
- Does not generate hammering
- Closing system : flexible membrane (thick elastomer disc) held in its center on a metal seat consisting of a grid (flow equivalent to the minimal section)
- Sealing ensured by self-closing membrane
- On membrane check valves, the opening regulated 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



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DN	PN	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
			L1	L2	G1	G2			
1 1/2	40	10/16	16	16	16	16	I	149B2164	6,9
2	50	10/16	16	16	16	16	I	149B2165	8,9
2 1/2	65	10/16	16	16	16	15	I	149B2166	11,9
3	80	10/16	16	16	16	12	I	149B2167	15,9
4	100	10/16	16	16	16	10	I	149B2168	19,5
5	125	10/16	16	16	16	0,5	I	149B2169	25,4
6	150	10/16	16	13	16	0,5	I	149B2170	39,5
8	200	10	10	10	10	0,5	I	149B2237	81,6

Important notice :

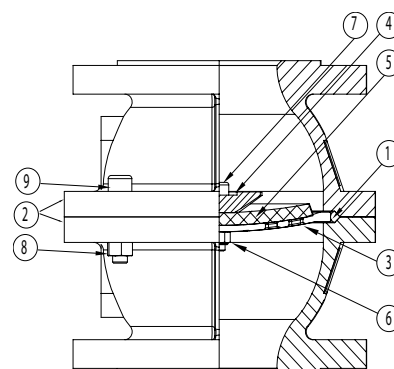
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.

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	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		Stainless steel	CB7Cu-1	
4	Cupel	DN 40 at 65	Stainless steel	X6Cr17	AISI 430
		DN 80 at 200	Brass	CuZn39Pb3	
5	Membrane		NR		
6	Bolt		Stainless steel	X5Cr-Ni18-10	AISI 304
7	Screw		Stainless steel	X5Cr-Ni18-10	AISI 304
8	Bolt		Stainless steel	X5Cr-Ni18-10	AISI 304
9	Screw		Stainless steel	X5Cr-Ni18-10	AISI 304



Approvals

ACS **CE** PED 2014/68/UE



International construction Standards :
CE conformity directive 2014/68/UE
Thread connection according to EN1092-2

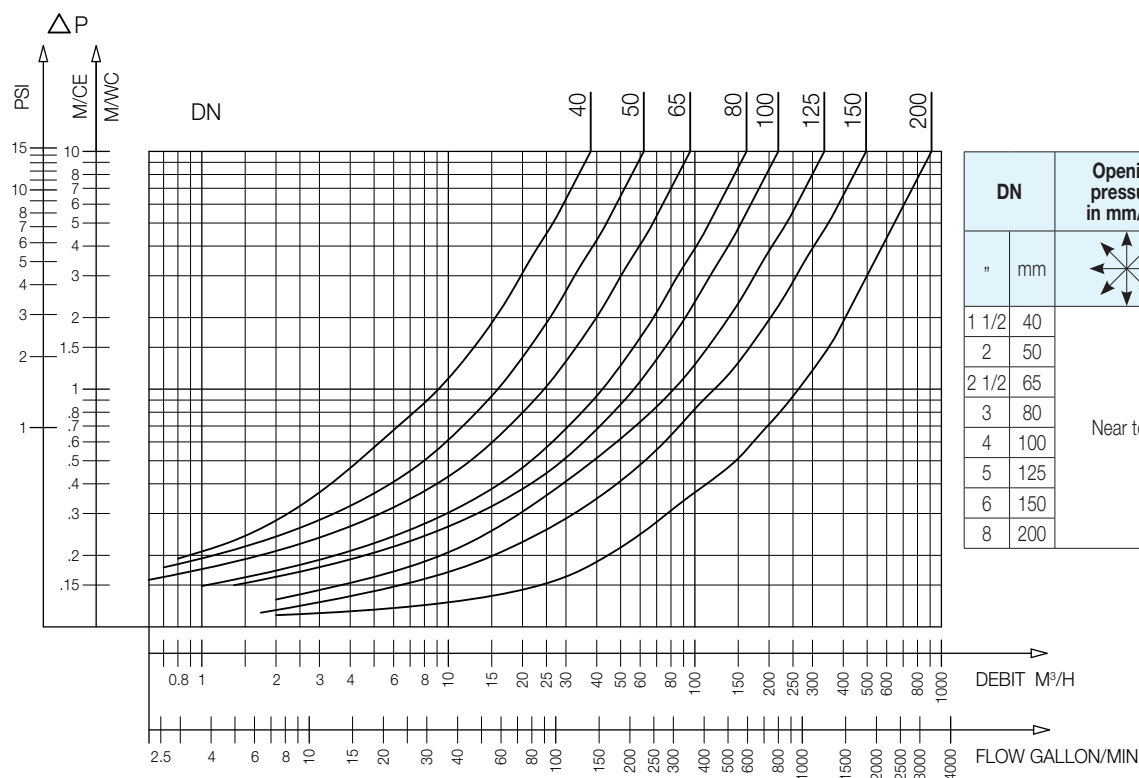
Application

Booster pumps, compressed air circuits, vacuum pumps.

Operation

Direction for use :

- Solid line: Valve completely open

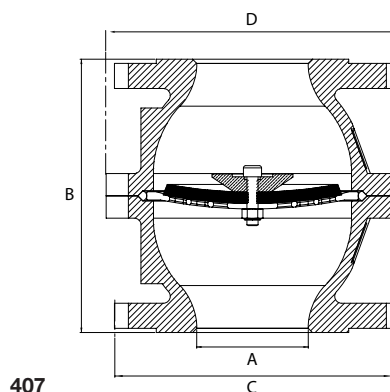


DN		Opening pressure in mm/CE	Kv	ζ
"	mm	 Near to 0	m³/H	
1 1/2	40		37,8	2,86
2	50		61,15	2,67
2 1/2	65		95,3	3,14
3	80		162	2,49
4	100		218,7	3,34
5	125		335,3	3,47
6	150		495	3,3
8	200		912,4	3,07

407 - Headloss chart

Sizing

A		B	C	D
"	mm	mm	mm	mm
1 1/2	40	148	150	140
2	50	158	164	159
2 1/2	65	176	183	169
3	80	196	200	212
4	100	213	220	234
5	125	228	250	250
6	150	266	285	324
8	200	439	340	426



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