

Technical data sheet

Type 407

Non-return valve
System M

Applications and special features



- 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.

Technical description

DN "	PN mm	PFA in bar	PS in bar				Cat.	References	Vvs-nr
			L1	L2	G1	G2			
1 1/2	40	10/16	16	16	16	16	I	149B 2164	
2	50	10/16	16	16	16	16	I	149B 2165	
2 1/2	65	10/16	16	16	15	16	I	149B 2166	
3	80	10/16	16	16	12	16	I	149B 2167	
4	100	10/16	16	16	10	16	I	149B 2168	
5	125	10/16	16	16	0,5	16	I	149B 2169	
6	150	10/16	16	13	0,5	16	I	149B 2170	
8	200	10	10	10	0,5	10	I	149B 2237	

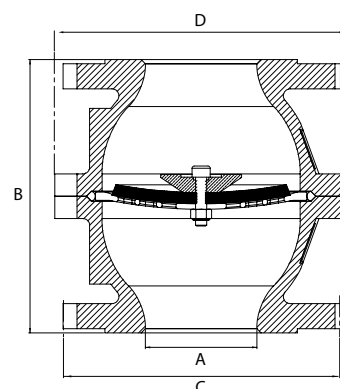
Important notice :

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.

- **Connection** : flanges drilled PN : see table
- **Permissible operating pressure PFA - water-** (for supply, distribution and disposal of water) : See table
- **Maximum Permissible pressure PS - other mediums:** See table
- **θ :** Mini. -10 °C
Maxi. 60 °C
- **Mediums** : Clear liquids, gas
- **Approvals** : ACS (except DN 100 up to 200)
- **International construction Standards** :
CE Conformity Directive 97/23/CE
Flange drilling according to EN1092-2

Overall dimensions

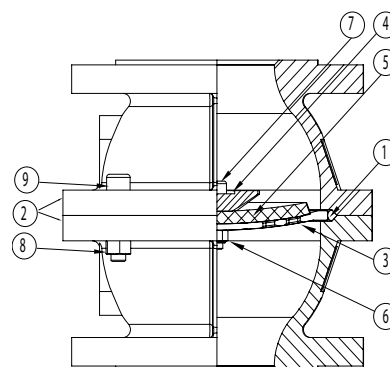
	A	B	C	D	Weight
"	mm	mm	mm	mm	kg
1 1/2	40	148	150	140	6,9
2	50	158	164	159	8,9
2 1/2	65	176	183	169	11,9
3	80	196	200	212	15,9
4	100	213	220	234	19,5
5	125	228	250	250	25,4
6	150	266	285	324	39,5
8	200	439	340	426	81,6



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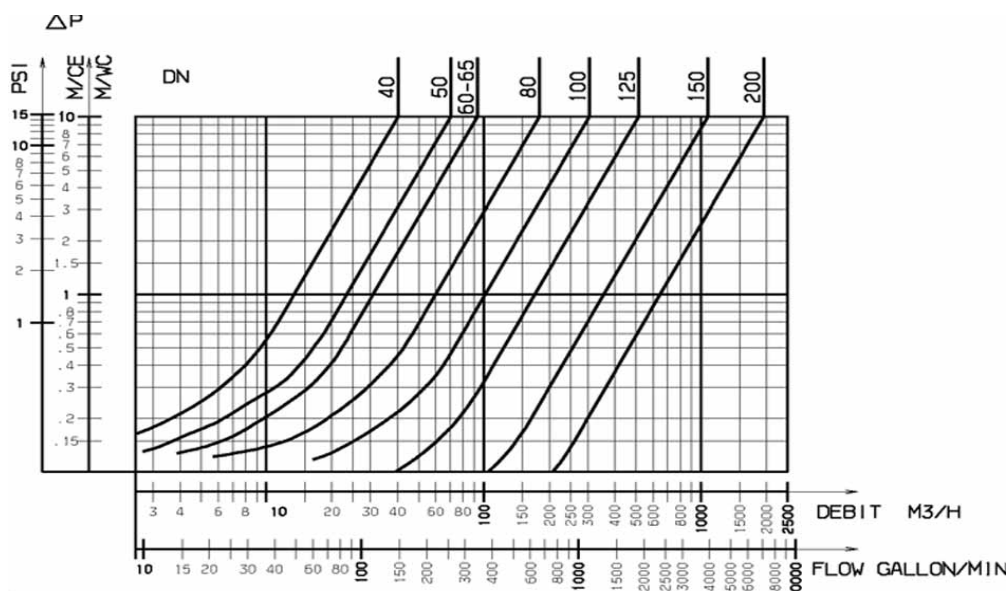
Spare parts list and materials

Nb	Description	Materials	EURO	ANSI
1	O-RING	EPDM		
2	CASING	Cast iron + epoxy	EN-GJL-250	ASTM A 48 35 B
3	SEAT	Stainless steel	CB7Cu-1	
4	CUPEL DN 40 to 65	Stainless steel	X6Cr17	AISI 430
		Brass	CuZn39Pb3	
5	MEMBRANE	NR		
6	SCREW	Stainless steel	X5Cr-Ni18-10	AISI 304
7	BOLT	Stainless steel	X5Cr-Ni18-10	AISI 304
8	SCREW	Galvanised steel		
9	BOLT	Stainless steel	X5Cr-Ni18-10	AISI 304



Working principle

DN		Opening pressure in mm/WC	Kv	ζ
"	mm		m³/H	
1 1/2	40	Near 0	40,30	2,50
2	50		70,50	1,97
2 1/2	65		93,30	3,21
3	80		180,00	1,98
4	100		305,50	1,68
5	125		515,00	1,44
6	150		1072,00	0,70
8	200		1940,00	0,60



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