

Technical data sheet

Type 402

Non return valve

System 02

Applications and special features



- Operates in any position
- Minimum head loss
- Silent, reliable sealing, compact
- Exceptional robustness
- Does not generate hammering
- Notch provided for cable to submerged pumps until DN 100.
- Closing system : long back axial guiding for reduced displacement
- Sealing guaranteed by a flat seal
- Return spring

Technical description

Important notice:

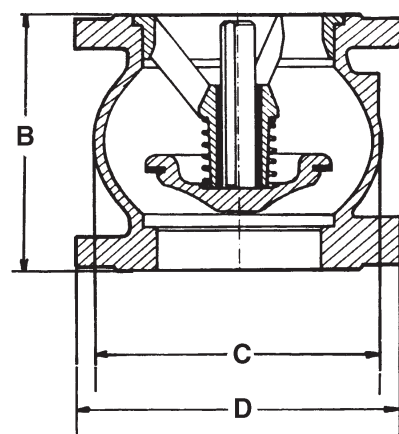
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. In order to facilitate your choice regarding these new regulatory requirements, Danfoss Socla has put the necessary information concerning products with CE marking, specification sheets and product identification plates at your disposal in the price list (+ see additional explanations on the detachable slip). In addition, the operating instructions are available on our web site www.danfoss-socla.com or by requesting from our sales department.

DN	PN	PFA	PS in bar				Cat	Ref.	Vvs-nr
"	mm	in bar	L1	L2	G1	G2			
1 1/2	40	10/16	16	16	16	16	I	149B2281	
2	50	10/16	16	16	16	16	I	149B2282	
2 1/4	60	10/16	16	16	16	16	I	149B1176	
2 1/2	65	10/16	16	16	16	15	I	149B2283	
3	80	10/16	16	16	16	12	I	149B2284	
3	80	10/16	16	16	16	16	II	149B2284C2	
4	100	10/16	16	16	16	10	I	149B2285	
4	100	10/16	16	16	16	16	II	149B2285C2	
5	125	10/16	16	16	16	0,5	I	149B2226	
5	125	10/16	16	16	16	16	II	149B2226C2	
6	150	10/16	16	13	16	0,5	I	149B2227	
6	150	10/16	16	16	16	16	II	149B2227C2	
8	200	10	10	10	10	10	II	149B2229	
10	250	10	10	10	10	10	II	149B2230	
12	300	10	10	10	10	10	II	149B2231	
14	350	10	10	10	0,5	10	II	149B2232	
16	400	10	10	10	0,5	10	II	149B2233	
20	500	10	10	10	0,5	10	II	149B2235	

- **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
- **T°** : Mini. -10 °C
Maxi. 100 °C
- **Mediums** : Clear liquids
- **Approvals** : VERITAS (France) - ACS (France)
VA (Denmark) - WRAS (UK)
CE Conformity (Europe)
- **International construction Standards** :
CE Conformity Directive 97/23/CE
Flange drilling according to EN1092-2

Overall dimensions

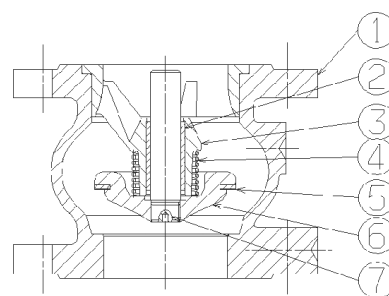
DN	B	C	D	Weight
"	mm	mm	mm	kg
1 1/2	40	85	80	150
2	50	100	97	165
2 1/4	60	120	125	185
2 1/2	65	120	125	185
3	80	140	150	200
4	100	170	187	220
5	125	200	220	250
6	150	230	250	285
8	200	289	340	340
10	250	354	420	405
12	300	396	490	460
14	350	473	586	533
16	400	560	680	597
20	500	750	880	670



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Spare parts list and materials

Nb	Description	Materials	EURO	ANSI
1	CASING	Cast iron + epoxy	EN-GJL-250	ASTM A 48 35 B
2	RING	Bronze	CuSn12-C	
3	GUIDE DN50	Bronze	CuSn5Zn5Pb5-C	
	Other DN	Cast iron + epoxy	EN-GJL-250	ASTM A 48 35 B
4	SPRING	Stainless steel	X10CrNi18-8	AISI 302
5	SEAL	EPDM		
	CLOSING SYSTEM DN 40	Brass	CuZn40Pb2	ASTM
6	DN 50-65	Bronze	CuSn5Zn5Pb5-C	ASTM B 505
	Other DN	Cast iron + epoxy	EN-GJL-250	ASTM A 48 35 B
7	STEM	Bronze	CuSn5Zn5Pb5-C	ASTM B 505



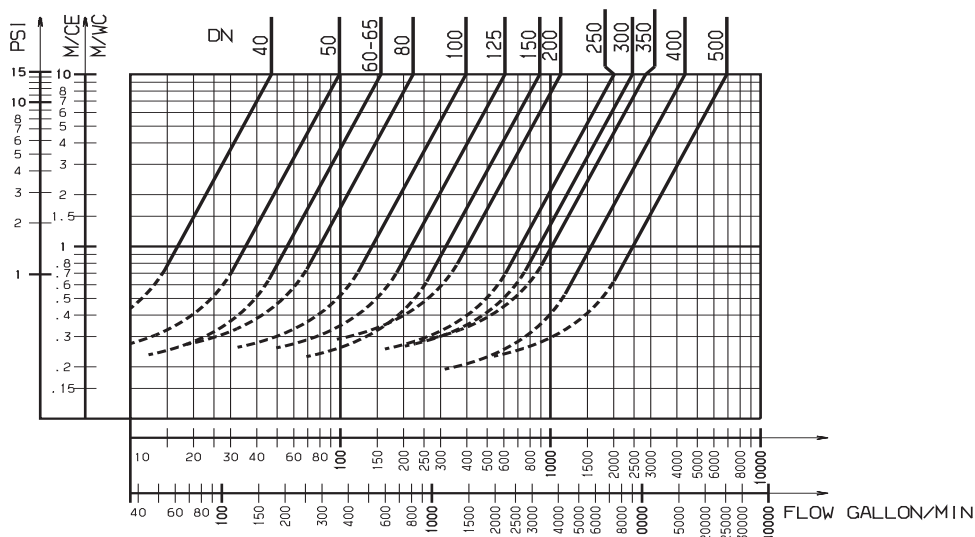
Working principle

DN	mm	Opening pressure in mm/CE				Kv m³/H	ζ
		↑	↓	↔	without spring		
1 1/2	40	440	210	320	120	47,00	1,80
2	50	440	220	330	110	99,00	1,00
2 1/4	60	450	190	320	130	159,00	1,10
2 1/2	65	450	190	320	130	159,00	1,10
3	80	450	190	320	130	222,00	1,30
4	100	500	240	370	130	396,00	1,00
5	125	510	210	360	150	619,00	1,00
6	150	550	210	380	170	890,00	1,00
8	200	590	210	400	190	1120,00	2,00
10	250	710	210	460	250	2010,00	1,50
12	300	820	90	460	365	2459,00	2,10
14	350	860	100	480	380	2843,00	2,90
16	400	800	50	410	390	4370,00	2,10
20	500	1030	0	430	580	6914,00	2,05

Direction for use :

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

ΔP



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