Technical data sheet

Type 402B

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
- Closing system : long back axial guiding for reduced displacement
- Sealing guaranteed by a flat seal
- Return spring
- 2 threaded and plugged bosses 1/2"

Technical description

Important notice :

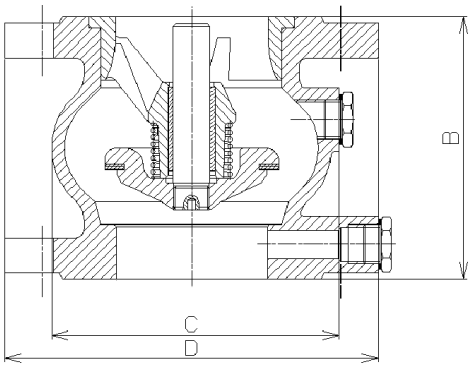
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.
The operating instructions are available on our web site www.danfoss-socla.com or by requesting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

DN		PN	PFA	PS in bar				Cat.	References	Vvs-nr
"	mm		in bar	L1	L2	G1	G2			
1 1/2	40	10/16	16	16	16	16	16	I	149B 2281 B	
2	50	10/16	16	16	16	16	16	I	149B 2351	
2 1/4	60	10/16	16	16	16	15	16	I	149B 2352	
2 1/2	65	10/16	16	16	16	15	16	I	149B 2353	
3	80	10/16	16	16	16	12	16	I	149B 2354	
4	100	10/16	16	16	16	10	16	I	149B 2355	
5	125	10/16	16	16	16	0,5	16	I	149B 2226 B	
6	150	10/16	16	13	16	0,5	16	I	149B 2227 B	
8	200	10	10	10	10	0,5	10	I	149B 2229 B	
10	250	10	10	10	10	0,5	10	I	149B 2230 B	
12	300	10	10	10	10	0,5	10	I	149B 2231 B	
14	350	10	10	10	10	0,5	8	I	149B 2232 B	
16	400	10	10	10	10	0,5	7	I	149B 2233 B	
20	500	10	10	10	10	0,5	7	I	149B 2235 B	

- **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, gas
- **Approvals** : VERITAS (France) - ACS (France)
  VA (Denmark) - WRAS (UK) - KIWA (Holland)
  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	mm	kg
1 1/2	40	85	80	150	4,2
2	50	100	97	165	5,8
2 1/4	60	120	125	185	8,1
2 1/2	65	120	125	185	8,1
3	80	140	150	200	10,2
4	100	170	187	220	14,5
5	125	200	220	250	24
6	150	230	250	285	32
8	200	288	340	340	53
10	250	354	420	405	94
12	300	395	490	460	140
14	350	472	586	533	225
16	400	560	680	597	312
20	500	750	880	670	540



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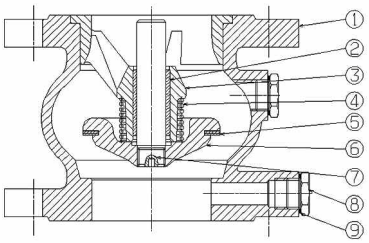
Spare parts list and materials

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	ASTM B 505
	Other DN	Cast iron+epoxy	EN-GJL-250	ASTM A 48 35 B
4	SPRING	Stainless steel	X10CrNi18-8	AISI 302
5	SEAL	EPDM		
6	CLOSING SYSTEM DN40	Brass	CuZn40Pb2	
	DN50-65	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
8	PLUG	Brass		
9	SEAL	EPDM		



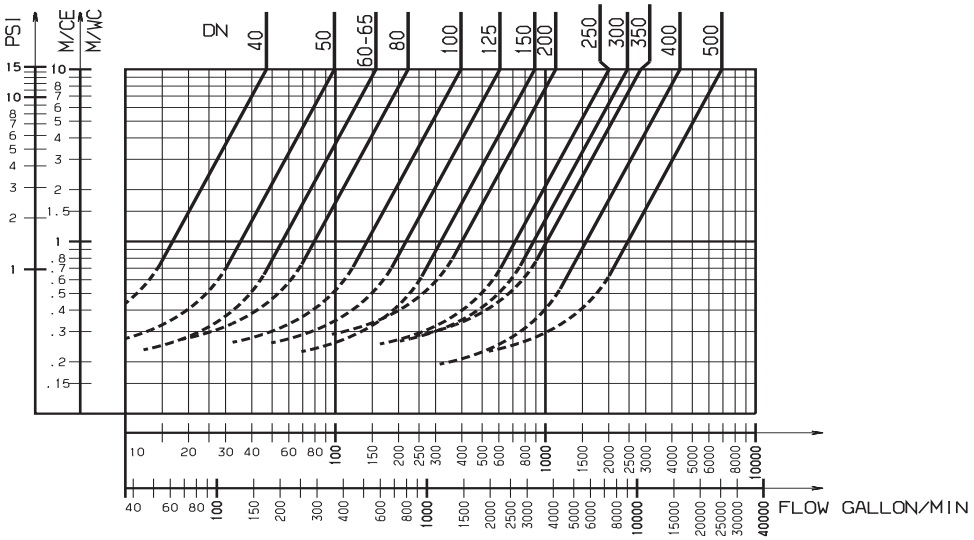
Working principle

DN		Opening pressure in mm/CE				Kv	ζ
"	mm	↑	↓	↔	Without spring	m³/H	
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

△P



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