



Data sheet

Non return Valve - Danfoss NVD 402

Description



- Closing system: long back axial guiding for reduced displacement
- Sealing guaranteed by a flat seal
- Return spring

Main Data:

- DN 40 - 500
- k_{vs} 47 - 6914 m³/h
- PN 16 (10)
- Medium: - Circulation water, drinking water or chilled glycolic water up to 50 %
- Medium Temperature: - 10 ... 100 °C
- Flanged connection
- Compliance with Pressure Equipment Directive 2014/68/EU
- Flange drilling according to EN1092-2

Features:

- Operates in any position
- Minimum head loss
- Silent, reliable sealing, compact
- Exceptional robustness
- Notch provided for cable to submerged pumps until DN 100.

- Approvals:

Ordering

"	DN	Kv (m ³ /h)	PN	PFA (bar)	PS (bar)				Code No.
					L1	L2	G1	G2	
1 ½	40	47	10/16	16	16	16	16	16	065B7470
2	50	99					0.5		065B7471
2 ½	65	159					15		065B7472
3	80	222					12		065B7473
4	100	396					10		065B7474
5	125	619					0.5		065B7475
6	150	890	13	0.5	065B7476				
8	200	1120	10	10	10	10	10	065B7477	
10	250	2010	10					065B7478	
12	300	2459	10					065B7479	
14	350	2843	10					065B7480	
16	400	4370	10					0.5	065B7481
20	500	6914	10					065B7482	

Note:
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.

Dimensions

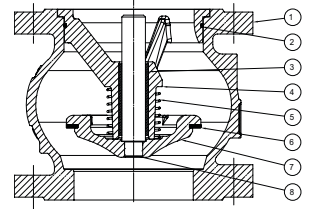
"	A DN	B (mm)	C (mm)	D (mm)	Weight (kg)
1 ½	40	85	80	150	4.2
2	50	100	97	165	5.8
2 ½	65	120	125	185	8.1
3	80	140	150	200	10.2
4	100	170	187	220	14.5
5	125	200	220	250	24
6	150	230	250	285	32
8	200	289	340	340	53
10	250	354	420	405	94
12	300	396	490	460	140
14	350	473	586	533	225
16	400	560	680	597	312
20	500	750	880	670	540

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Design

Pos.	Description	Material	EURO	ANSI
1	Casing DN 40-400 Casing DN 500	Cast iron / epoxy Ductile iron / epoxy	EN 1561 EN-GJL-250 EN 1563 EN-GJS-400-15	ASTM A 48 35 B ASTM A 536 65-45-12
2	Ring seal DN 40-250	EPDM	-	-
3	Ring	Bronze	EN 1982 CuSn12-C GS	-
4	Guide DN50 DN 40&60-400 DN 500	Bronze Cast iron / epoxy Ductile iron / epoxy	EN 1982 CuSn5Zn5Pb2-C GS EN 1561 EN-GJL-250 EN 1563 EN-GJS-400-15	ASTM A 48 35 B ASTM A 536 65-45-12
5	Spring	Stainless steel	EN 10270-3 X10CrNi18-8	AISI 302
6	Seal	EPDM	-	-
7	Closing system DN 40, DN 50-65	Brass Bronze	EN 12164 CuZn40Pb2 R360 EN 1982 CuSn5Zn5Pb2-C GS	-
7-8	DN 80-400 Stem Check-Valve	Bronze Ductile iron / epoxy	EN 1982 CuSn5Zn5Pb2-C GS EN 1561 EN-GJL-250	-
7-8	DN 500 Stem Check-Valve	Bronze Ductile iron / epoxy	EN 1982 CuSn12-C GS EN 1563 EN-GJS-400-15	ASTM A 48 35 B

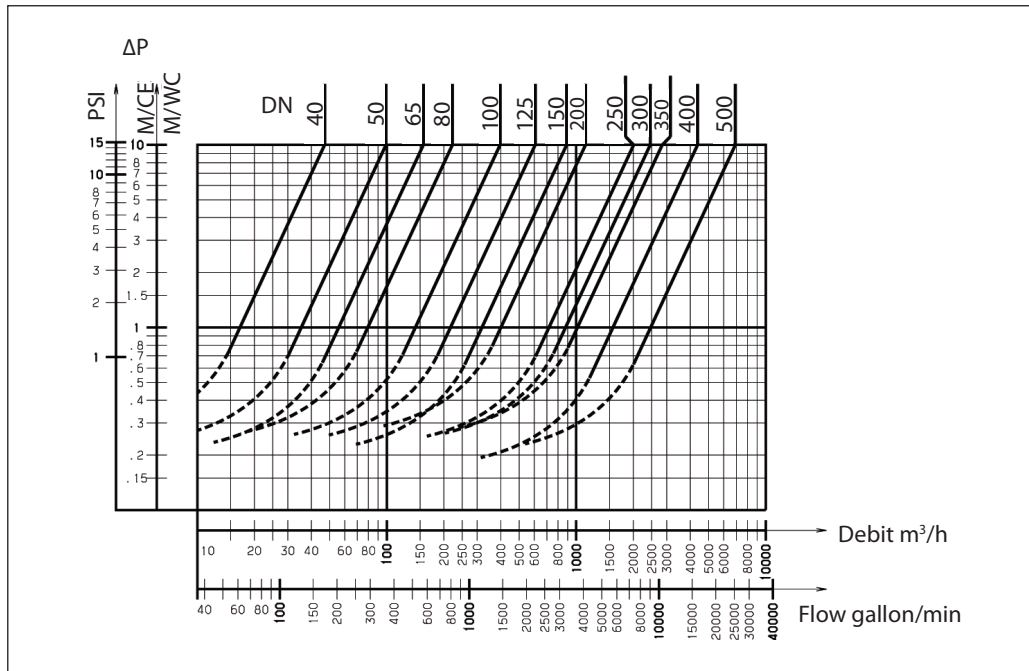


Headloss diagram

DN	mm	Opening pressure in mm/CE				K _v (m ³ /h)	ζ
		↑	↓	↔	without spring		
1 ½	40	440	210	320	120	47	1.8
2	50	440	220	330	110	99	1
2 ½	65	450	190	320	130	159	1.1
3	80	450	190	320	130	222	1.3
4	100	500	240	370	130	396	1
5	125	510	210	360	150	619	1
6	150	550	210	380	170	890	1
8	200	590	210	400	190	1120	2
10	250	710	210	460	250	2010	1.5
12	300	820	90	460	365	2459	2.1
14	350	860	100	480	380	2843	2.9
16	400	800	50	410	390	4370	2.1
20	500	1030	0	430	580	6914	2.05

Direction for use:

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



Danfoss A/S

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