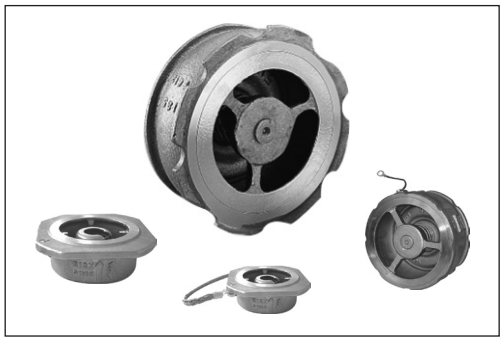
Data sheet

Non return Valve - Danfoss NVD 812

Description



Features:

- Operates in any position
- Easy to install and dismantle, space-saving
- Minimum head loss
- Does not generate hammering
- Closing system : disc with parabolic edges with return spring ; lateral guiding by 3 or 4 ribs (DN 15 to 100).
- Closing system with back axial guiding and return spring (ND 125 to 200).
- Metal/metal seal (machined trim)
- Using these check valves on networks equipped with piston pumps or compressors is not recommended.

Main Data:

- DN 15 - 200
- k_{VS} 4,24 - 546 m^3/h
- PN 25/40
- Medium:
  - Circulation water, drinking water or chilled glycolic water up to 50%
- Medium Temperature:
  - 10 … 350°C
- Leakage rate according to EN12266-1 rate E
- International construction Standards:
  - CE Conformity Directive 2014/68/EU
  - Connection acc. to ASA B16.1 class 125RF
  - Connection according to ASA B16.5 class 150RF and 300RF
  - Connection according to EN 1092.2
  - Overall dimensions according to EN558-1 series 49
- Approvals:

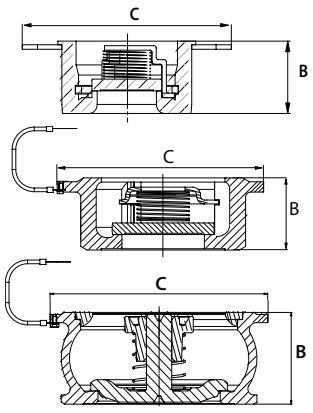
Ordering

"	DN	Kv (m3/h)	PN	PFA (bar)	PS (bar)				Code No.
					L1	L2	G1	G2	
½	15	4,24	40	40	40	40	40	40	**065B7530**
¾	20	7,80							**065B7531**
1	25	12,40							**065B7532**
1¼	32	18,00					30		**065B7533**
1½	40	28,00					25		**065B7534**
2	50	40,10					20		**065B7535**
2½	65	72,50			30		15		**065B7536**
3	80	111,00			25		12		**065B7537**
4	100	182,00			20		10		**065B7538**
5	125	302,00			16		0,5	28	**065B7539**
6	150	370,00			13		0,5	23	**065B7540**
8	200	546,00			40		17	25	**065B7541**

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.

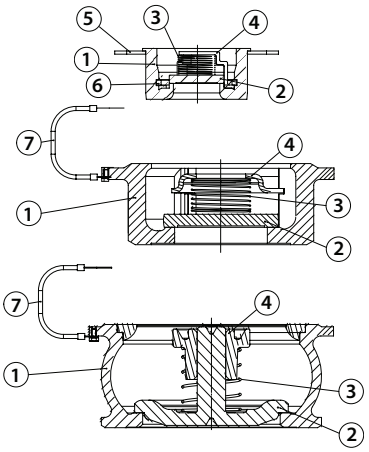
Dimensions

"	A DN	B (mm)	C-PN6 (mm)	C - PN10/16/ ASA 150 (mm)	C - PN25/40/ ASA 300 (mm)	Weight (kg)
½	15	16	44	53	53	0,10
¾	20	19	54	63	63	0,14
1	25	22	64	73	73	0,23
1¼	32	28	78	84	84	0,35
1½	40	31,5	88	94	94	0,52
2	50	40	98	109	109	0,73
2½	65	46	118	129	129	1,52
3	80	50	134	144	144	2,17
4	100	60	154	162	170	3,35
5	125	90	-	192	192	8,55
6	150	106	-	218	224	12,70
8	200	140	-	-	284	30,00



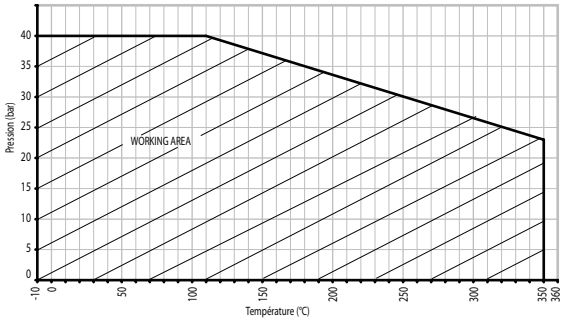
Design

Pos.	Description	Material	EURO	ANSI
1	Casing DN15 DN20 to 65 DN80 to 100 DN125 to 200	Stainless steel	X5CrNi18-10 GX5CrNi19-10 GX2CrNiMo19-11-2 GX5CrNi19-10	AISI 304 AISI 304 AISI 316L AISI 304
2	Closing system DN15 to 100 DN125 to 200	Stainless steel	X2CrNiMo17-12-2 GX5CrNi19-10	AISI 316L AISI 304
3	Spring	Stainless steel	X10CrNi18-8	AISI 302
4	Stop / Guide DN15 DN20 to 100 DN125 to 150 DN200	Stainless steel	X5CrNiMo17-12-2 X2CrNi18-9 GX2CrNiMo19-11-2 GX5CrNi19-10	AISI 316L AISI 304L AISI 316L AISI 304
5	Centering collar DN15 Other DN	Stainless steel	X2CrNi18-9	AISI 304L
6	Clips	Stainless steel	X10CrNi18-8	AISI 302
7	Discharge anti-static braid	Copper	–	–



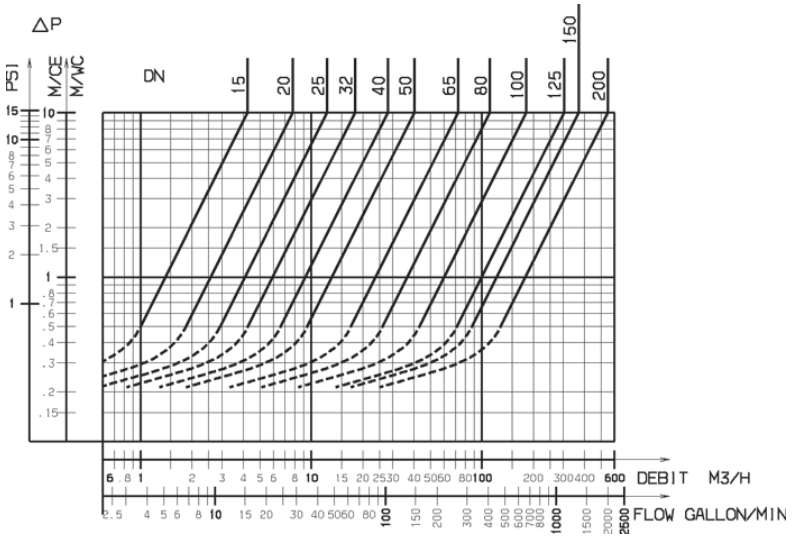
Headloss diagram

DN		Opening pressure (mm)/WC				K_v (m^3/h)	ζ
"	(mm)	↑	↓	↔	Without spring		
½	15	160	120	140	20	4,24	4,4
¾	20	165	125	145	20	7,80	4,1
1	25	165	115	140	25	12,40	4,0
1¼	32	190	130	160	30	18,00	5,0
1½	40	200	120	160	40	28,00	5,1
2	50	210	110	155	50	40,10	6,1
2½	65	210	100	155	55	72,50	5,3
3	80	226	95	160	65	111,00	5,2
4	100	235	75	205	80	182,00	4,7
5	125	335	75	205	130	302,00	4,2
6	150	360	70	215	145	370,00	5,8
8	200	515	105	310	205	546,00	8,4



Direction for use :

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



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