

Technical data sheet

Type 291NF

EA anti-pollution non-return valve

01 System

Applications and special features



- Operates in any position
- Minimum head loss
- Silent and robust
- Does not generate hammering
- Closing system : double axial guiding with return spring
- Excellent sealing at high as well as at low pressure ensured by a specially designed lip ring-seal.
- Drilled bosses 1/4" with plug

Technical description

DN		PFA (bar)	PS (bar)				Cat.	References	Vvs-nr
mm	"		L1	L2	G1	G2			
15/21	1/2	10	10	10	10	10	3.3	149B 2220	
20/27	3/4	10	10	10	10	10	3.3	149B 2212	
26/34	1	10	10	10	10	10	3.3	149B 2222	
33/42	1 1/4	10	10	10	X	10	3.3	149B 2213	
40/49	1 1/2	10	10	10	X	10	3.3	149B 2214	
50/60	2	10	10	10	X	10	3.3	149B 2215	

Important notice :

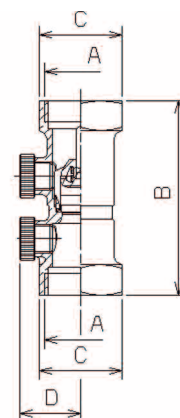
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.

The operating instructions are available on our web site www.danfoss-socla.com or by requesting from our sales department.

- **Connection** : female/female, BSP thread
- **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. 80 °C
- **Mediums** : Clear liquids, gas
- **Approvals** : NF Antipollution - VERITAS - ACS (France)
Belgaqua (Belgium)
- **International construction Standards** : NF Antipollution according to NFP 43 007
Thread connection according to NF E 03-005 ISO 228

Overall dimensions

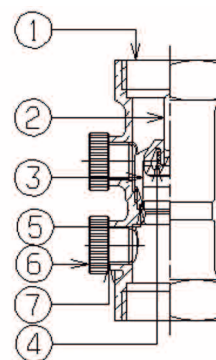
Connections A		B	C	D	Weight
"	mm	mm	mm	mm	kg
1/2	15/21	65	26	26	0,160
3/4	20/27	75	30	30	0,289
1	26/34	90	38	38	0,290
1 1/4	33/42	110	47	47	0,630
1 1/2	40/49	120	54	54	0,780
2	50/60	150	66	66	1,360



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Spare parts list and materials

Nb	Description	Materials	EURO	ANSI
1	CASING	Brass	CuZn39Pb2	
2	CLOSING SYSTEM	POM (polyacetal)		
3	GUIDE - DN 1/2" Other DN	POM (polyacetal) PPO (Polyphenylene oxyde)		
4	SPRING	Stainless steel	X10CrNi18-8	AISI 302
5	SEAL DN 1/2" Other DN	EPDM NBR (Nitrile)		
6	PLUG	POM (polyacetal)		
7	SEAL	EPDM		

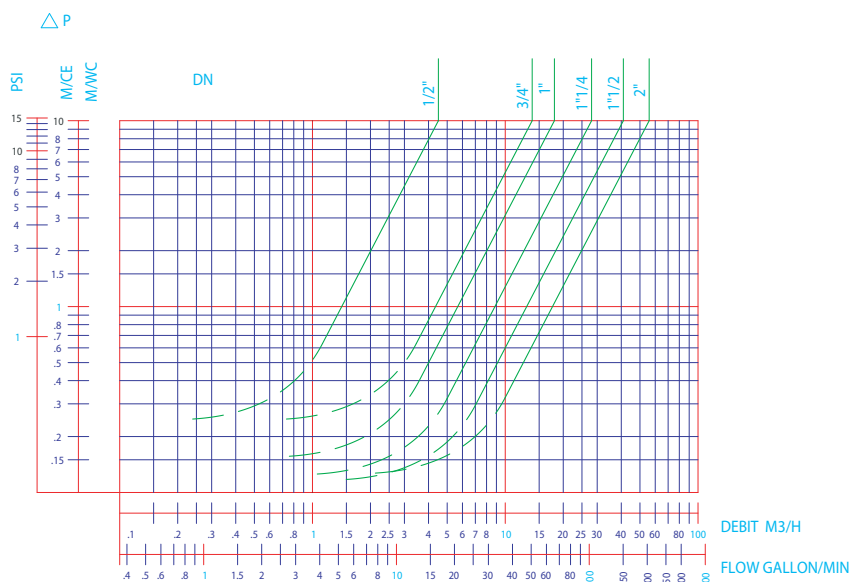


Working principle

DN		Opening pressure (in mm WC)	Kv	ζ
"	mm			
		★	m ³ /H	
1/2	15/21	between 50 and 200	4,2	4,5
3/4	20/27		13,8	1,3
1	26/34		18,0	1,6
1 1/4	33/42		28,0	2,1
1 1/2	40/49		41,0	2,4
2	50/60		55,8	3,1

Direction for use :

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



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