

Technical data sheet

Type 231

EB 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.

Technical description

DN	PFA (bar)	PS (bar)				Cat.	References	(bar)
		L1	L2	G1	G2			
3/8	10	10	10	10	10	3.3	149B 2069	
3/8	10	10	10	10	10	3.3	149B 2089*	
1/2	10	10	10	10	10	3.3	149B 2070	
1/2	10	10	10	10	10	3.3	149B 2090*	
3/4	10	10	10	10	10	3.3	149B 2091	
1	10	10	10	10	10	3.3	149B 2092	
1 1/4	10	10	10	x	10	3.3	149B 2093	
1 1/2	10	10	10	x	10	3.3	149B 2094	
2	10	10	10	x	10	3.3	149B 2095	

*with FKM seal

Important notice :

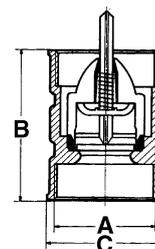
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.

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 and ACS (France)
VA (Denmark) : consult us
- **International construction Standards** :
NF Antipollution according to NFP 43 008
Thread connection according to NF E 03-005 ISO 228

Overall dimensions

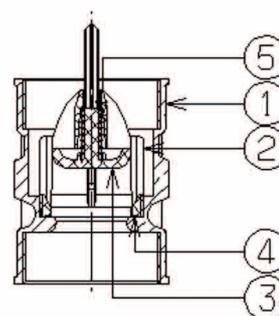
Connection	A	B	C	Weight
"	mm	mm	mm	kg
3/8	12/17	39,0	25,0	0,060
1/2	15/21	41,0	30,0	0,095
3/4	20/27	46,0	32,5	0,085
1	26/34	54,0	39,0	0,130
1 1/4	33/42	64,0	48,0	0,200
1 1/2	40/49	78,0	55,0	0,310
2	50/60	89,0	67,0	0,480



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Spare parts list and materials

Nr	Description	Material	EURO	ANSI
1	CASING	DZR brass	CuZn36Pb2AS	
2	GUIDE	POM (DN 3/8" - 1/2") PPO (other DN)		
3	CLOSING SYSTEM	POM (polyacetal)		
4	SEAL	EPDM (DN 3/8" - 1/2") NBR (Nitrile - DN 3/4" - 2") FKM (for ref. 2089 and 2090)		
5	SPRING	Stainless steel	X10CrNi18-8	AISI 302

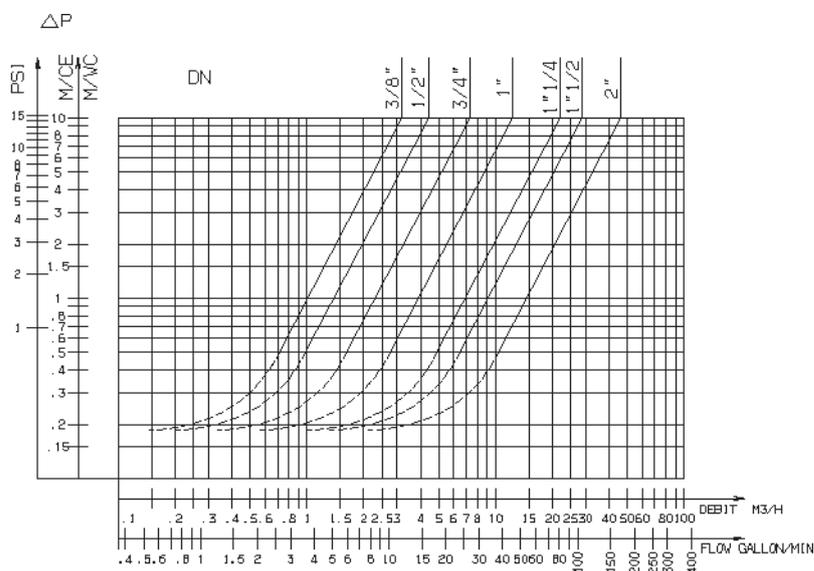


Working principle

DN	Opening pressure (in mm WC)	Kv	ζ
"		m ³ /H	
3/8	between 50 and 200	3,2	1,63
1/2		4,4	4,10
3/4		7,3	4,70
1		12,4	4,00
1 1/4		22,0	3,40
1 1/2		29,0	4,80
2		46,5	4,50

Direction for use :

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



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