Technical data sheet

Type 812XB

Non-return valve

W system

Applications and special features

ATEX version

- 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.
- Metal/metal seal (grounded trim)
- Using these check valves on networks equipped with piston pumps or compressors is not recommended.
- Within an ATEX area, please check that the network is connected to the braid, do not use isolating pipes (PVC)/

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.socla.com or by requesting from our sales department.

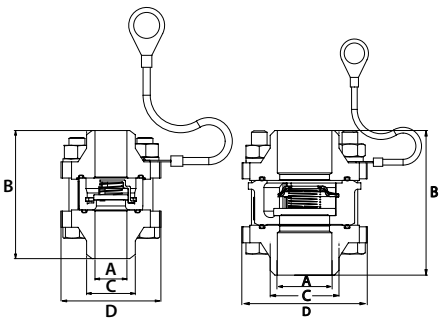
*** : Equipped with a discharge anti-static braid**

DN		PFA	PS en bar				Cat.	Références	Vvs-nr
"	mm	en bar	L1	L2	G1	G2			
1/2	15	40	40	40	40	40	3.3	**149B 2420XB**	
1/2	15	40	40	40	40	40	II	**149B027058***	
3/4	20	40	40	40	40	40	3.3	**149B 2421XB**	
3/4	20	40	40	40	40	40	II	**149B027061***	
1	25	40	40	40	40	40	3.3	**149B 2422XB**	
1	25	40	40	40	40	40	II	**149B027065***	
1 1/4	32	40	40	40	30	40	I	**149B 2423XB**	
1 1/4	32	40	40	40	40	40	II	**149B 018831***	
1 1/2	40	40	40	40	25	40	I	**149B 2424XB**	
1 1/2	40	40	40	40	40	40	II	**149B 018832***	
2	50	40	40	40	20	40	I	**149B 2425XB**	
2	50	40	40	40	40	40	II	**149B 018833***	

- **Connection** : butt welded
- **Permissible operating pressure PFA - water-** (for supply, distribution and disposal of water) : See table
- **Maximum Permissible pressure PS - other mediums**: See table
- **θ** Mini. -40 °C
  Maxi. 200 °C
- **Mediums** : Clear liquids, steam
- **Leakage rate :** according to EN 12266-1 rate E
- **Approvals** : ACS BUREAU VERITAS CE PED 97/23/CE
- **International construction Standards** :
  - CE Conformity Directive 97/23/CE
  - CE ATEX Conformity Directive 94/9/CE
  - Overall dimensions without nipples according to EN558-1 series 49

Overall dimensions

A		B	C	D	Weight
"	mm	mm	mm	mm	kg
1/2	16	67,5	23	64,5	0,43
3/4	20,4	71,5	28	81	0,61
1	26,8	84	35	86	0,90
1 1/4	34,9	88	44	107	1,33
1 1/2	40,8	98,5	52	109	2,10
2	52,3	113	63	127	3,15



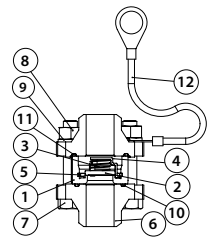
• DN 1/2 • DN 3/4 - 2"

Technical data sheet **Type 812XB** - Non-return valve

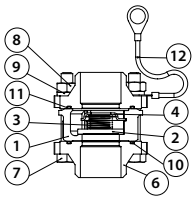
Spare parts list and materials

Nb	Description	Materials	EURO	ANSI
1	CASING DN1/2	Stainless steel	X2CrNiMo17-12-2	AISI 316L
	CASING DN3/4 to 2"	Stainless steel	GX2CrNiMo19-11-2	AISI 316L
2	CLOSING SYSTEM	Stainless steel	X2CrNiMo17-12-2	AISI 316L
3	SPRING	Stainless steel	X2CrNiMo17-12-2	AISI 316L
4	STOP-GUIDE	Stainless steel	X2CrNiMo17-12-2	AISI 316L
5	CLIPS	Stainless steel	X2CrNiMo17-12-2	AISI 316L
6	COUNTER-FLANGE	Stainless steel	GX5CrNiMo19-11-2	AISI 316
7	SCREW	Stainless steel	X5CrNiMo17-12-2	AISI 316
8	NUT	Stainless steel	X5CrNiMo17-12-2	AISI 316
9	WASHER	Stainless steel	X5CrNiMo17-12-2	AISI 316
10	SEAL	PTFE		
11	SEAL	PTFE		
12	DISCHARGE ANTI-STATIC BRAID	Copper		

• DN 1/2



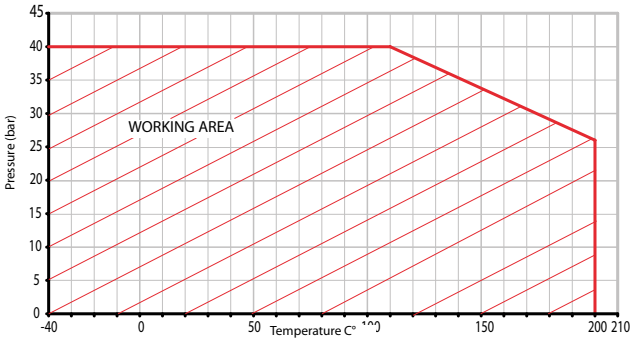
• DN 3/4 - 2"



Working principle

DN		Opening pressure mm/WC				Kv	ζ
"	mm	↑	↓	↔	without spring	m³/H	
1/2	15	160	120	140	20	4,24	4,4
3/4	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	160	50	40,10	6,1

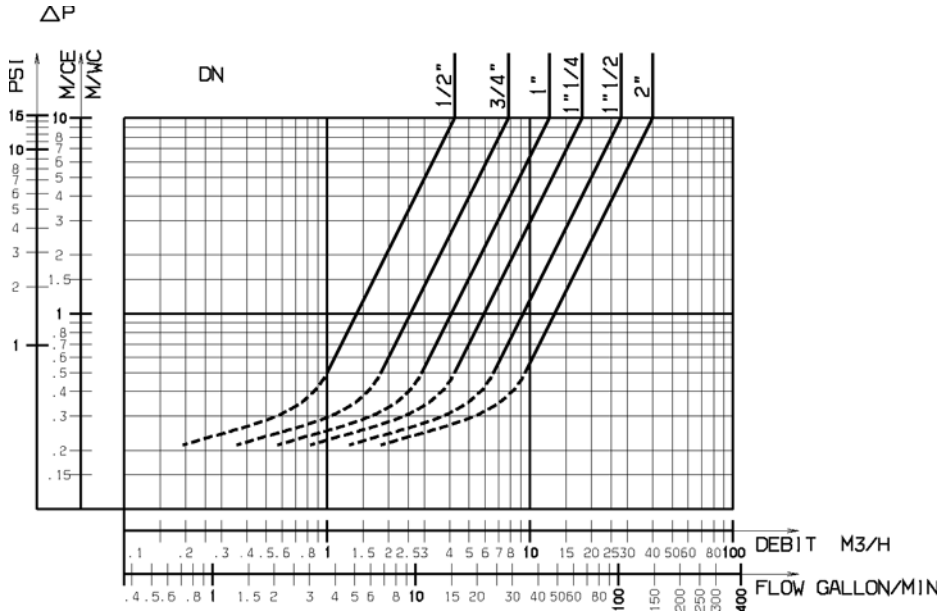
Pressure/Temperature Diagram



Direction for use :

• Solid line : Valve completely open

• Dotted line : opening stage of valve



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