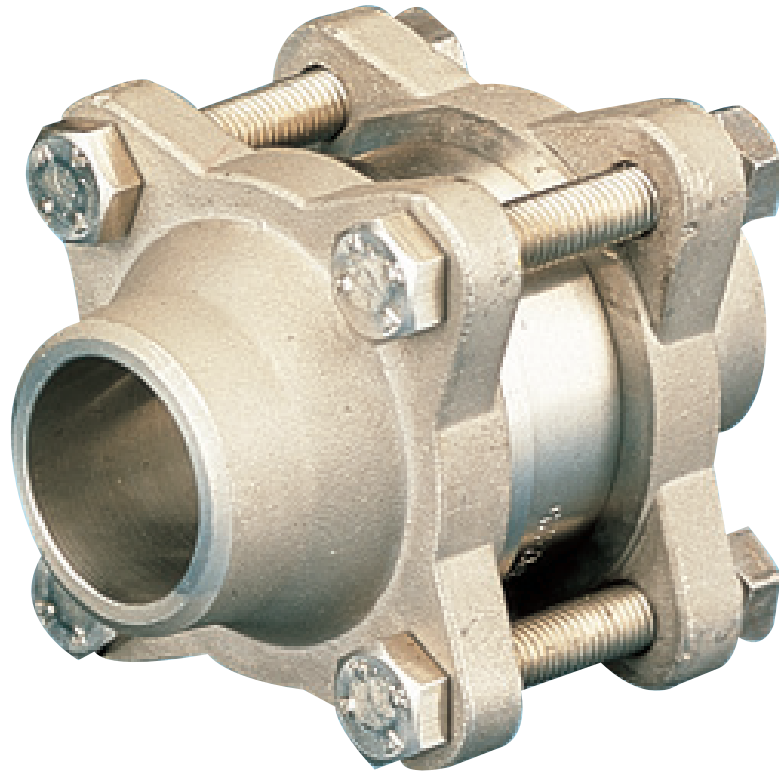


# 812XB

Non-return disc valve

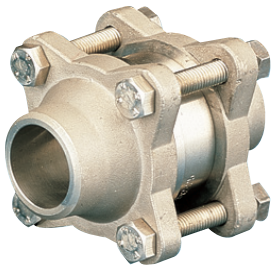
W System

## Technical Data Sheet



## Description

- High performances in pressure and temperature
- 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 tightness (obturator on machined seat)



ATEX version

## 812XB

Non-return disc valve - W system

DN	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
		L1	L2	G1	G2			
1/2	15	40	40	40	40	4.3	<b>149B2420XB</b>	0,43
1/2	15	40	40	40	40	II	<b>149B027058*</b>	0,43
3/4	20	40	40	40	40	4.3	<b>149B2421XB</b>	0,61
3/4	20	40	40	40	40	II	<b>149B027061*</b>	0,61
1	25	40	40	40	40	4.3	<b>149B2422XB</b>	0,90
1	25	40	40	40	40	II	<b>149B027065*</b>	0,90
1 1/4	32	40	40	40	30	I	<b>149B2423XB</b>	1,33
1 1/4	32	40	40	40	40	II	<b>149B018831*</b>	1,33
1 1/2	40	40	40	40	25	I	<b>149B2424XB</b>	2,10
1 1/2	40	40	40	40	40	II	<b>149B018832*</b>	2,10
2	50	40	40	40	20	I	<b>149B2425XB</b>	3,15
2	50	40	40	40	40	II	<b>149B018833*</b>	3,15

\* Equipped with a discharge anti-static braid

### 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](http://www.socla.com) or by requesting from our sales department.

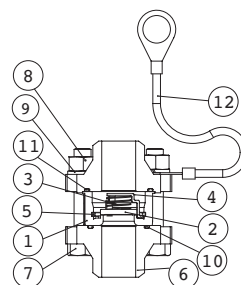
### Technical features

Operating temperature	-40 °C to 200 °C
Permissible operating pressure (PFA) in water	See table above
Maximum permissible pressure (PS) other mediums	See table above
Connection	Butt welded
Mediums	Clear liquids, steam
Leakage rate	According to EN 12266-1 rate E

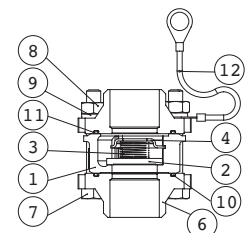
### Nomenclature and materials

N°	Description	Materials	EURO	ANSI	
1	Body	DN 1/2"	Satinless steel	X2CrNiMo17-12-2	AISI 316L
		DN 3/4" to 2"	Satinless steel	GX2CrNiMo19-11-2	AISI 316L
2	Closing system	Satinless steel	X2CrNiMo17-12-2	AISI 316L	
3	Spring	Satinless steel	X2CrNiMo17-12-2	AISI 316L	
4	Stop/guide	Satinless steel	X2CrNiMo17-12-2	AISI 316L	
5	Clips	Satinless steel	X2CrNiMo17-12-2	AISI 316L	
6	Counter-flange	Satinless steel	GX5CrNiMo19-11-2	AISI 316	
7	Screw	Satinless steel	X5CrNiMo17-12-2	AISI 316	
8	Nut	Satinless steel	X5CrNiMo17-12-2	AISI 316	
9	Washer	Satinless steel	X5CrNiMo17-12-2	AISI 316	
10	Seal	PTFE			
11	Seal	PTFE			
12	Discharge anti-static braid	Tinned copper			

DN 1/2"



DN 3/4" - 2"



## Approvals

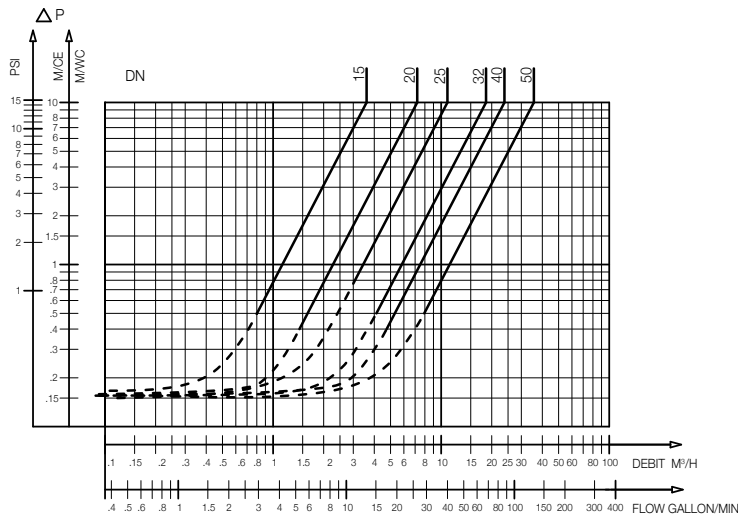


**International construction Standards :**  
 Directive 2014/68/UE  
 CE ATEX conformity directive 2014/34/UE  
 Overall dimensions according to EN 558-1 49 series

## Application

Industry, chemical applications, steam.  
 Use of these valves on circuits equipped with piston pump or piston compressor is not recommended.  
 Within an ATEX area, please check that the network is connected to the braid, do not use isolating pipes (PVC).

## Operation



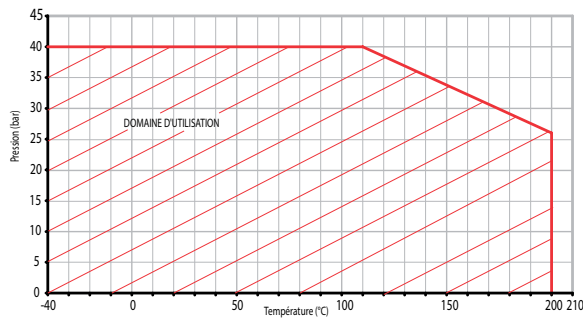
812XB - Headloss chart

DN	mm	Opening pressure in mm/CE				Kv m³/H	ζ
		↑	↓	↔	Without spring		
1/2	15	160	120	140	20	3,60	6,15
3/4	20	165	125	145	20	7,20	4,95
1	25	165	115	140	25	10,90	5,30
1 1/4	32	190	130	160	30	18,50	4,90
1 1/2	40	200	120	160	40	23,80	7,25
2	50	210	110	160	50	35,60	7,90

**Direction for use :**

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

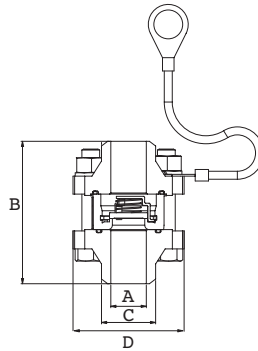
**Pressure/Temperature Diagram**



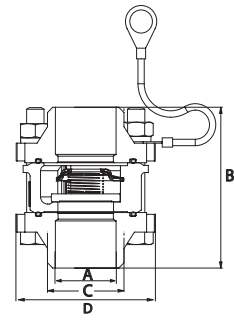
## Sizing

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

**812XB**  
DN 1/2"



**812XB**  
DN 3/4" - 2"



The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.

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