812XS

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)



812XS

Non-return disc valve - W system

D	N	PFA		PS i	n bar		Cat.	Ref.	Weight
33	mm	in bar	L1	L2	G1	G2	Oat.	nei.	Kg
1/2	15	40	40	40	40	40	4.3	149B2420XS	0,43
1/2	15	40	40	40	40	40	II	149B027059*	0,43
3/4	20	40	40	40	40	40	4.3	149B2421XS	0,75
3/4	20	40	40	40	40	40	II	149B027062*	0,75
1	25	40	40	40	40	40	4.3	149B2422XS	1,03
1	25	40	40	40	40	40	II	149B027067*	1,03
1 1/4	32	40	40	40	30	40	I	149B2423XS	1,60
1 1/4	32	40	40	40	40	40		149B018834*	1,60
1 1/2	40	40	40	40	25	40	1	149B2424XS	2,60
1 1/2	40	40	40	40	40	40	II	149B018835*	2,60
2	50	40	40	40	20	40	- 1	149B2425XS	3,70
2	50	40	40	40	40	40	II	149B018836*	3,70



ATEX version

Important notice:

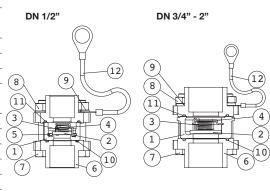
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.

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

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	Socket welded				
Mediums	Clear liquids, steam				
Leakage rate	According to EN 12266-1 rate E				

Nomenclature and materials

N°	Descriptio	n	Materials	EURO	ANSI
4	Body	DN 1/2"	Stainless steel	X2CrNiMo17-12-2	AISI 316L
- 1		DN 3/4" 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 k	oraid	Tinned copper		



^{*} Equipped with a discharge anti-static braid



Approvals





International construction Standards:

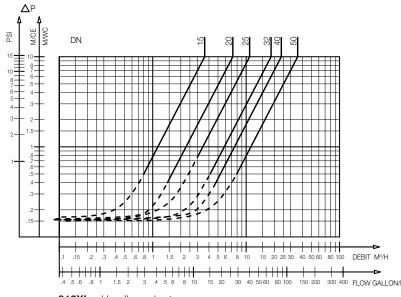
Directive 2014/68/UE
CE ATEX conformity directive 2014/34/UE
Overall dimensions according to EN 558-1 49 series
Socket welded connection according to EN 12760

Application

Industry, chemical applications, steam, thermal fluid.

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



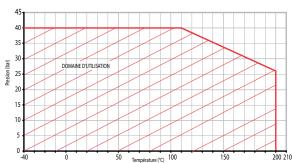
812XL	Head	loss c	hart

D	N	Opening pressure in mm/CE				Kv	ζ
"	mm	1	\	←→	Without spring	m³/H	
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:

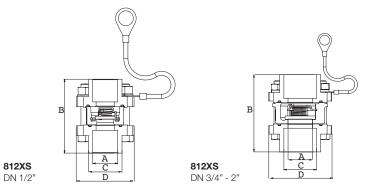
- Solid line: Valve completely open
- Dotted line: opening stage of valve

Pressure/Temperature Diagram



Sizing

	A	В	С	D
" mm		mm	mm	mm
1/2	21,6	64,5	33,2	64,5
3/4	27,2	72,5	42	81
1	34	80	48	86
1 1/4	42,8	96	57	107
1 1/2	78,7	107,5	70	109
2	60,8	120	81	127



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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