

# Technical data sheet

## Type 812 Non-return valve W System

### Applications and special features



- 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 (DN 15 to 100).
- Closing system with back axial guiding and return spring (ND 125 to 200).
- Metal/metal seal (machined 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

DN "	mm	PN	PFA en bar	PS en bar				Cat.	Références	Vvs-nr
				L1	L2	G1	G2			
1/2	15	40	40	40	40	40	40	3.3	149B 2420	
3/4	20	40	40	40	40	40	40	3.3	149B 2421	
3/4	20	40	40	40	40	40	40	II	149B 2421C2*	
1	25	40	40	40	40	40	40	3.3	149B 2422	
1	25	40	40	40	40	40	40	II	149B 2422C2*	
1 <sup>1/4</sup>	32	40	40	40	40	30	40	I	149B 2423	
1 <sup>1/4</sup>	32	40	40	40	40	40	40	II	149B 2423C2*	
1 <sup>1/2</sup>	40	40	40	40	40	25	40	I	149B 2424	
1 <sup>1/2</sup>	40	40	40	40	40	40	40	II	149B 2424C2*	
2	50	40	40	40	40	20	40	I	149B 2425	
2	50	40	40	40	40	40	40	II	149B 2425C2*	
2 <sup>1/2</sup>	65	40	40	30	40	15	40	I	149B 2426	
2 <sup>1/2</sup>	65	40	40	40	40	40	40	II	149B 2426C2*	
3	80	40	40	25	40	12	40	I	149B 2427	
3	80	40	40	40	40	40	40	II	149B 2427C2*	
4	100	40	40	20	40	10	40	I	149B 2428	
4	100	40	40	40	40	40	40	II	149B 2428C2*	
5	125	40	40	16	40	0,5	28	I	149B 2429	
5	125	40	40	40	40	28	40	II	149B 2429C2*	
6	150	40	40	13	40	0,5	23	I	149B 2430	
6	150	40	40	40	40	23	33	II	149B 2430C2*	
7	175	40	40	40	40	20	28	II	149B 2433*	
8	200	16	16	16	16	16	16	II	149B 2431*	
8	200	25/40	40	40	40	17	25	II	149B 2432*	

### Important notice:

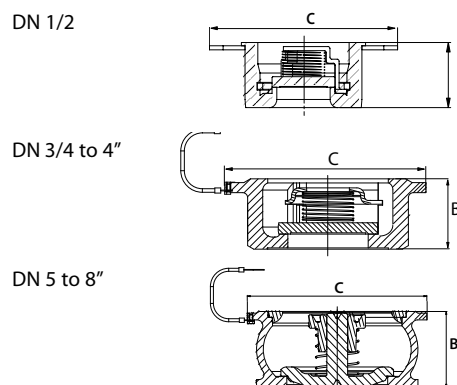
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our web site [www.socla.com](http://www.socla.com) or by requesting from our sales department.

\* : Equipped with a discharge anti-static braid

- **Connections** : between flanges PN see table
- **Permissible operating pressure PFA - water-** (for supply, distribution and disposal of water) : See table
- **Maximum Permissible pressure PS - other mediums:** See table
- **θ** Mini. -10 °C  
Maxi. 350 °C
- **Mediums** : Clear liquids
- **Leakage rate** : according to EN 12266-1 rate E
- **Approvals** : ACS (except DN15)
- **International construction Standards** :
  - CE Conformity Directive 97/23/CE
  - CE ATEX Conformity Directive 94/9/CE
  - Connection according to ASA B16.1 class 125RF
  - Connection according to ASA B16.5 class 150RF and 300RF
  - Connection according to EN 1092.2
  - Overall dimensions according to EN558-1 series 49

### Overall dimensions

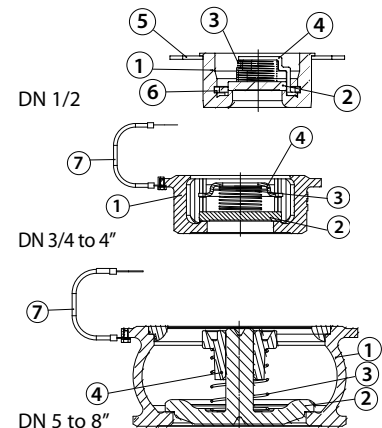
DN "	DN		C - PN6 mm	C - PN10/16 mm	C - PN25/40 mm	Weight kg
	mm	mm				
1/2	15	16	44	53	53	0,10
3/4	20	19	54	63	63	0,14
1	25	22	64	73	73	0,23
1 <sup>1/4</sup>	32	28	78	84	84	0,35
1 <sup>1/2</sup>	40	31,5	88	94	94	0,52
2	50	40	98	109	109	0,73
2 <sup>1/2</sup>	65	46	118	129	129	1,52
3	80	50	134	144	144	2,17
4	100	60	154	162	170	3,35
5	125	90	-	192	192	8,55
6	150	106	-	218	224	12,70
7	175	125	-	248	266	21,60
8	200	140	262	273	-	29,50
8	200	140	-	-	284	30,00



# Technical data sheet Type 812 - Non-return valve

## Spare parts list and materials

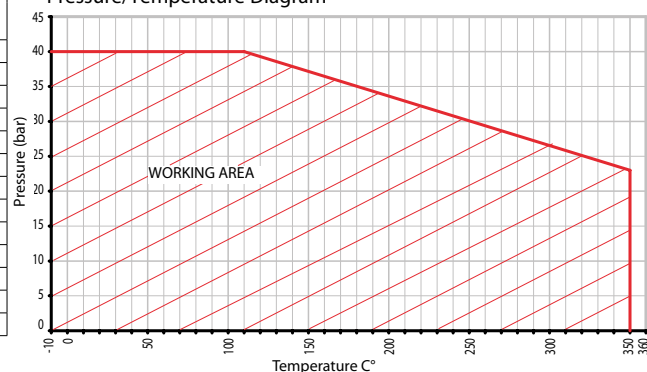
Nb	Description	Materials	EURO	ANSI
1	CASING DN15	Stainless steel	X5CrNi18-10	AISI 304
	DN20 to 65	Stainless steel	GX5CrNi19-10	AISI 304
	DN80 to 100	Stainless steel	GX2CrNiMo19-11-2	AISI 316L
	DN125 to 200	Stainless steel	GX5CrNi19-10	AISI 304
2	CLOSING SYSTEM DN15 to 100	Stainless steel	X2CrNiMo17-12-2	AISI 316L
	DN125 to 200	Stainless steel	GX5CrNi19-10	AISI 304
3	SPRING	Stainless steel	X10CrNi18-8	AISI 302
4	STOP / GUIDE DN15	Stainless steel	X2CrNiMo17-12-2	AISI 316L
	DN 20 to 100	Stainless steel	X2CrNi18-9	AISI 304L
	DN125 to 150	Stainless steel	GX2CrNiMo19-11-2	AISI 316L
	DN175 to 200	Stainless steel	GX5CrNi19-10	AISI 304
5	CENTERING COLLAR DN 15	Stainless steel	X2CrNi18-9	AISI 304L
	OTHER DN	Bichromated steel		
6	CLIPS	Stainless steel	X10CrNi18-8	AISI 302
7	DISCHARGE ANTI-STATIC BRAID	Copper		



## Working principle

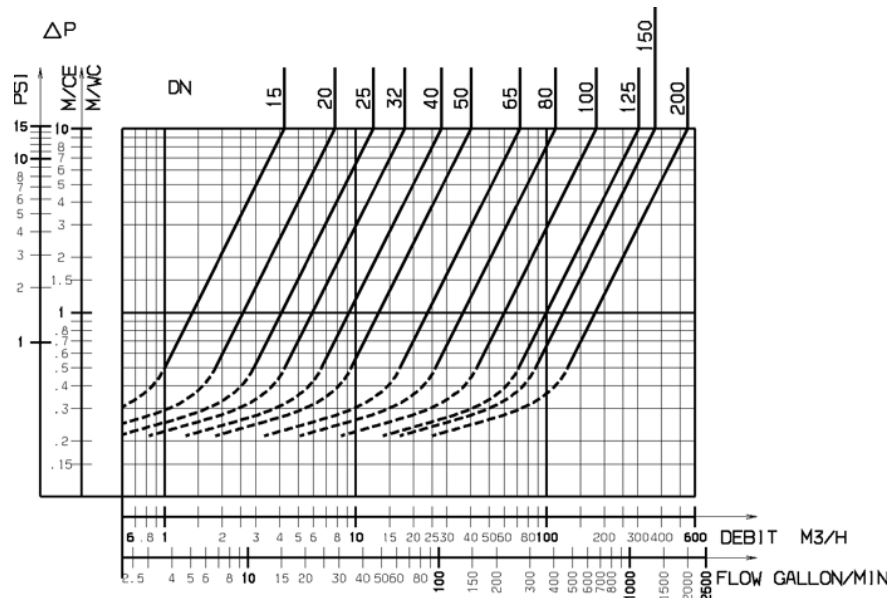
DN	Opening pressure mm/WC					Kv	ζ
	↑	↓	↔	without spring	m <sup>3</sup> /H		
1/2	15	160	120	140	20	4,24	4,4
3/4	20	165	125	145	20	7,80	4,1
1	25	165	115	140	25	12,40	4,0
1 <sup>1/4</sup>	32	190	130	160	30	18,00	5,0
1 <sup>1/2</sup>	40	200	120	160	40	28,00	5,1
2	50	210	110	155	50	40,10	6,1
2 <sup>1/2</sup>	65	210	100	155	55	72,50	5,3
3	80	226	95	160	65	111,00	5,2
4	100	235	75	205	80	182,00	4,7
5	125	335	75	205	130	302,00	4,2
6	150	360	70	215	145	370,00	5,8
7	175						
8	200	515	105	310	205	546,00	8,4

Pressure/Temperature Diagram



### Direction for use :

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



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