

812X

Non-return disc valve

W System



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 with back axial guiding and return spring ; lateral guiding by 3 or 4 ribs (DN 15 to 100)
- Closing system with back axial guiding and return spring (DN 125 to 200)
- Metal/metal tightness (obturator on machined seat)



812X

Non-return disc valve - W system

| DN | PN | PFA in bar | PS in bar | | | | Cat. | Ref. | Weight Kg | |
|-------|-----|---------------|-----------|----|----|-----|------|--------------------|----------------------|-------|
| | | | L1 | L2 | G1 | G2 | | | | |
| 1/2 | 15 | 40 | 40 | 40 | 40 | 40 | 4.3 | 149B2420X | 0,10 | |
| 3/4 | 20 | 40 | 40 | 40 | 40 | 40 | 4.3 | 149B2421X | 0,14 | |
| 3/4 | 20 | 40 | 40 | 40 | 40 | 40 | II | 149B027054* | 0,14 | |
| 1 | 25 | 40 | 40 | 40 | 40 | 40 | 4.3 | 149B2422X | 0,23 | |
| 1 | 25 | 40 | 40 | 40 | 40 | 40 | II | 149B027055* | 0,23 | |
| 1 1/4 | 32 | 40 | 40 | 40 | 40 | 30 | I | 149B2423X | 0,35 | |
| 1 1/4 | 32 | 40 | 40 | 40 | 40 | 40 | II | 149B018819* | 0,35 | |
| 1 1/2 | 40 | 40 | 40 | 40 | 40 | 25 | I | 149B2424X | 0,52 | |
| 1 1/2 | 40 | 40 | 40 | 40 | 40 | 40 | II | 149B018820* | 0,52 | |
| 2 | 50 | 40 | 40 | 40 | 40 | 20 | I | 149B2425X | 0,73 | |
| 2 | 50 | 40 | 40 | 40 | 40 | 40 | II | 149B018821* | 0,73 | |
| 2 1/2 | 65 | 40 | 40 | 30 | 40 | 15 | I | 149B2426X | 1,52 | |
| 2 1/2 | 65 | 40 | 40 | 40 | 40 | 40 | II | 149B018822* | 1,52 | |
| 3 | 80 | 40 | 40 | 25 | 40 | 12 | I | 149B2427X | 2,17 | |
| 3 | 80 | 40 | 40 | 40 | 40 | 40 | II | 149B018823* | 2,17 | |
| 4 | 100 | 40 | 40 | 20 | 40 | 10 | I | 149B2428X | 3,35 | |
| 4 | 100 | 40 | 40 | 40 | 40 | 40 | II | 149B018824* | 3,35 | |
| 5 | 125 | 40 | 40 | 16 | 40 | 0,5 | 28 | I | 149B2429X | 8,55 |
| 5 | 125 | 40 | 40 | 40 | 40 | 28 | 40 | II | 149B018825* | 8,55 |
| 6 | 150 | 40 | 40 | 13 | 40 | 0,5 | 23 | I | 149B2430X | 12,70 |
| 6 | 150 | 40 | 40 | 40 | 40 | 23 | 33 | I | 149B018826* | 12,70 |
| 8 | 200 | 16 | 16 | 16 | 16 | 16 | 16 | II | 149B2431X(1)* | 23,40 |
| 8 | 200 | 25/40 | 40 | 40 | 40 | 17 | 25 | II | 149B2432X(2)* | 23,40 |

* Equipped with a discharge anti-static braid

(1) PN16-ASA150
(2) PN25/40 -ASA300

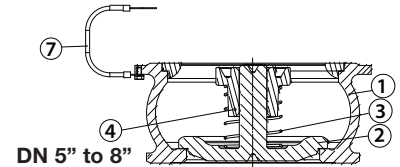
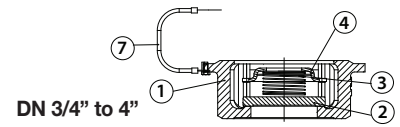
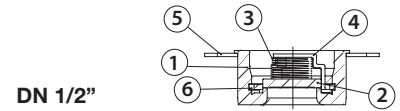
Important notice :

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 | -50 °C to 350 °C |
| Permissible operating pressure (PFA) in water | See table above |
| Maximum permissible pressure (PS) other mediums | See table above |
| Connection | Between flanges, PN (see table) |
| Mediums | Clear liquids, steam |
| Leakage rate | According to EN 12266-1 rate E |

Nomenclature and materials

| N° | Description | Materials | EURO | ANSI | |
|----|-----------------------------|-----------------|-------------------|------------------|-----------|
| 1 | Body | DN 15 | Stainless steel | X2CrNiMo17-12-2 | AISI 316L |
| | | Others DN | Stainless steel | GX2CrNiMo19-11-2 | AISI 316L |
| 2 | Closing system | DN 15 to 100 | Stainless steel | X2CrNiMo17-12-2 | AISI 316L |
| | | DN 125 to 200 | Stainless steel | GX2CrNiMo19-11-2 | AISI 316L |
| 3 | Spring | Stainless steel | X2CrNiMo17-12-2 | AISI 316L | |
| 4 | Stop/guide | DN 15 to 100 | Stainless steel | X2CrNiMo17-12-2 | AISI 316L |
| | | DN 125 to 200 | Stainless steel | GX2CrNiMo19-11-2 | AISI 316L |
| 5 | Centering collar | DN 15 | Stainless steel | X2CrNi18-9 | AISI 304L |
| | | Others DN | Bichromated steel | | |
| 6 | Clips | Stainless steel | X2CrNiMo17-12-2 | AISI 316L | |
| 7 | Discharge anti-static braid | Copper | | | |



Approvals



International construction Standards :

Directive 2014/68/UE
 CE ATEX conformity directive 2014/34/UE
 Connection ASA B16.1, 125RF class
 Connection ASA B16.5 150RF class and 300RF class F
 Connection according to EN 1092.2
 Overall dimensions according to EN 558.1 49 serie

Decree of 11/01/2007

The ACS is only valid for:

- Organic materials and articles (such as pipes made of polyvinyl chloride, polyethylene, tank linings, etc.)
- Accessories and sub-assemblies of accessories consisting of at least one organic component that comes into contact with water.

No ACS can be required as proof of sanitary compliance for conformity for other groups of materials or articles intended to come into contact with water intended for human consumption. Where regulatory provisions do not provide for the issue of an ACS, a CLP or CAS, certification of compliance with regulatory provisions is the responsibility of the person responsible for first marketed for the first time. The 812 and 812X ranges are 100% metallic (there are no organic components in these values). ACS is therefore not in force for these ranges.

Application

Industry, chemical applications, high pressure, high temperature, steam service.
 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).

Installation

Installation :

Before putting valve into operation, check that:

- the working conditions are compatible with the details given on the identification plate, the instruction notice and the manufacturer's detail,
- the valve works effectively when tried (carry out a few opening and closing operations of the closing system),
- the valve is free-pollution inside.

On a new installation or after maintenance, the circuit must be rinsed with the valve completely open in order to remove solid matter which may damage the internal parts of the valve.

Commissioning :

The installation should be put under pressure progressively to avoid damage which might occur to internal components.

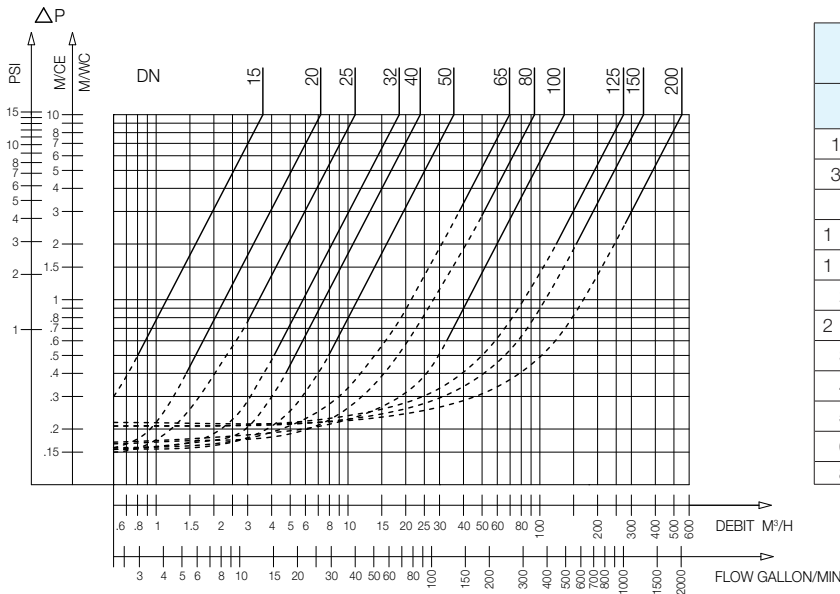
Make sure that when flow stops the valve maintains pressure well and that there is no water-hammer which might damage the valve or installation.

If there is water-hammer, an anti-water hammer system must be added to the installation.

During a prolonged stoppage, a change in the state of the fluid may result in damage when the installation is brought back into service (solidification...).

Establish an adequate procedure program for cleaning the system.

Operation



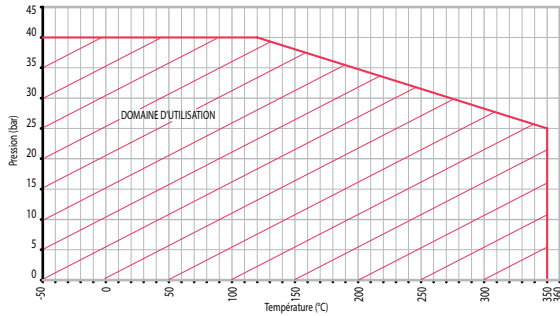
812X - Headloss chart

| DN | | Opening pressure in mm/CE | | | | Kv m³/H | ζ |
|-------|-----|---------------------------|-----|-----|----------------|------------|------|
| " | mm | ↑ | ↓ | ↔ | 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 | 155 | 50 | 35,60 | 7,90 |
| 2 1/2 | 65 | 210 | 100 | 155 | 55 | 69,50 | 5,90 |
| 3 | 80 | 226 | 95 | 160 | 65 | 93,70 | 7,45 |
| 4 | 100 | 235 | 75 | 205 | 80 | 134 | 8,90 |
| 5 | 125 | 335 | 75 | 205 | 130 | 273,85 | 5,20 |
| 6 | 150 | 360 | 70 | 215 | 145 | 347,40 | 6,70 |
| 8 | 200 | 515 | 105 | 310 | 205 | 549,70 | 8,50 |

Direction for use :

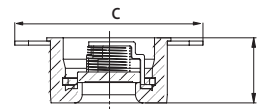
- Solid line: Valve completely open
- Dotted line: opening stage of valve

Pressure/Temperature Diagram

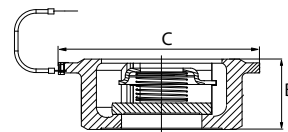


Sizing

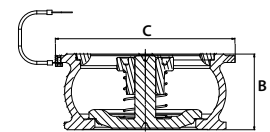
| DN | | B | C - PN6 | C - PN10/16 ASA150 | C - PN25/40 ASA300 |
|-------|-----|------|---------|-----------------------|-----------------------|
| " | mm | mm | mm | mm | mm |
| 1/2 | 15 | 16 | 44 | 53 | 53 |
| 3/4 | 20 | 19 | 54 | 63 | 63 |
| 1 | 25 | 22 | 64 | 73 | 73 |
| 1 1/4 | 32 | 28 | 78 | 84 | 84 |
| 1 1/2 | 40 | 31,5 | 88 | 94 | 94 |
| 2 | 50 | 40 | 98 | 109 | 109 |
| 2 1/2 | 65 | 46 | 118 | 129 | 129 |
| 3 | 80 | 50 | 134 | 144 | 144 |
| 4 | 100 | 60 | 154 | 162 | 170 |
| 5 | 125 | 90 | - | 192 | 192 |
| 6 | 150 | 106 | - | 218 | 224 |
| 8 | 200 | 140 | 262 | 273 | - |
| 8 | 200 | 140 | - | - | 284 |



812X - DN 1/2"



812X - DN 3/4" to 4"



812X - DN 5" to 8"

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

Socla reserves the right to carry out any technical and design improvements to its products without prior notice. Warranty : All sales and contracts for sale are expressly conditioned on the buyer's assent to Socla terms and conditions found on its website at www.socla.com. Socla hereby objects to any term, different from or additional to Socla terms, contained in any buyer communication in any form, unless agreed to in a writing signed by an officer of Socla.