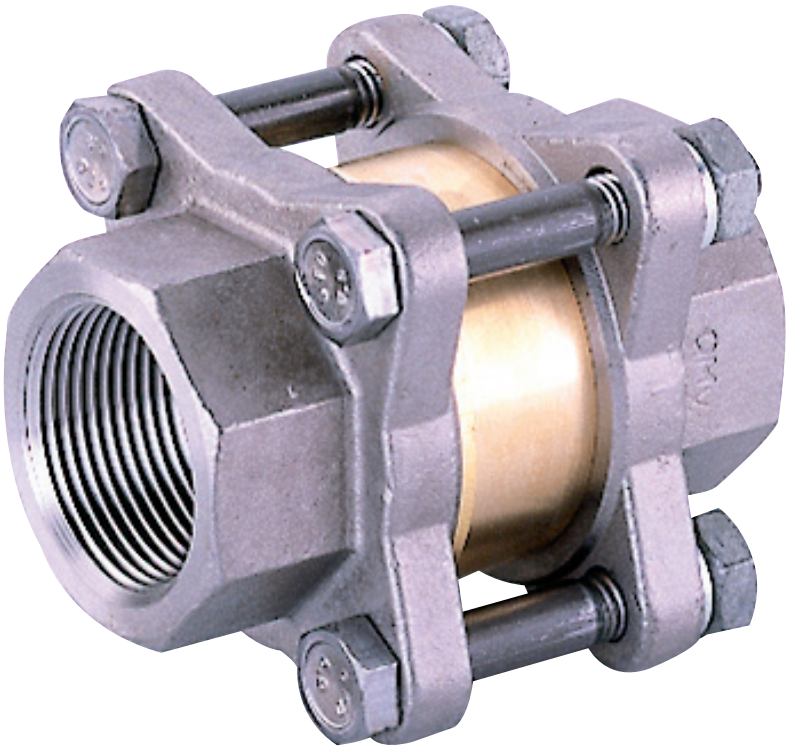
802T

Non-return disc valve

W System

Technical Data Sheet



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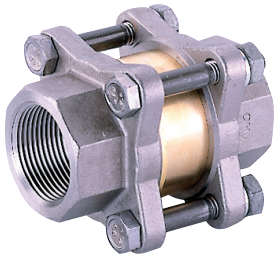
Description

- High performances in pressure and temperature
- Operates in any position
- Easy mounting and dismounting, 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)



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Non-return disc valve - W system

DN		PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
"	mm		L1	L2	G1	G2			
1 1/4	32	16	16	16	16	16	I	**149B2413T**	1
1 1/2	40	16	16	16	16	16	I	**149B2414T**	2,2
2	50	16	16	16	16	16	I	**149B2415T**	3,2

NB : for DN 1/2, 3/4 and 1" see type 812XT

Important notice :

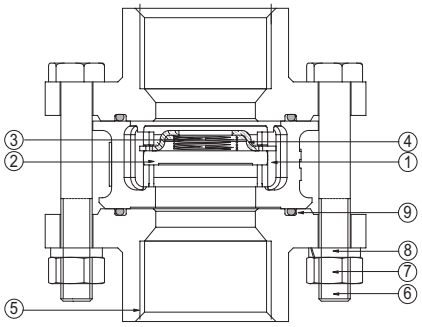
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our web site www.socla.com or by requesting from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

Technical features

Operating temperature	-10 °C to 200 °C
Permissible operating pressure (PFA) in water	See table above
Maximum permissible pressure (PS) other mediums	See table above
Connection	Between flanges female / female, gas thread (BSP)
Mediums	Clear liquids
Leakage rate	According to EN 12266-1 rate E

Nomenclature and materials

N°	Designation	Materials	EURO	ANSI
1	Body	Brass DZR	CuZn35Pb2Al-C	
2	Closing system	Stainless steel	X2CrNiMo17-12-2	AISI 316L
3	Spring	Stainless steel	X10CrNi18-8	AISI 302
4	Stop/guide	Stainless steel	X2CrNiMo17-12-2	AISI 316L
5	Counter-flange	Stainless steel	X5CrNiMo19-11-2	AISI 316
6	Screw	Stainless steel	X5CrNiMo17-12-2	AISI 316
7	Nut	Stainless steel	X5CrNiMo17-12-2	AISI 316
8	Washer	Stainless steel	X5CrNiMo17-12-2	AISI 316
9	Seal	PTFE		



Approvals

PED 2014/68/UE

International construction Standards :
Directive 2014/68/UE
Thread connection according to NF E 03-005 ISO 228
Overall dimensions without nozzles according to EN 558-1 series 49

Application

Heating, industrial applications.
Use of these valves on circuits equipped with piston pump or piston compressor is not recommended.

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.

Maintenance

Maintenance and repair work must be carried out by qualified personnel. During opening and closing tests, the operator must be careful not to put fingers or any other object in the trajectory of the closing system. Manipulate the valve and its components carefully to avoid damage.

Removing the valve from the installation :

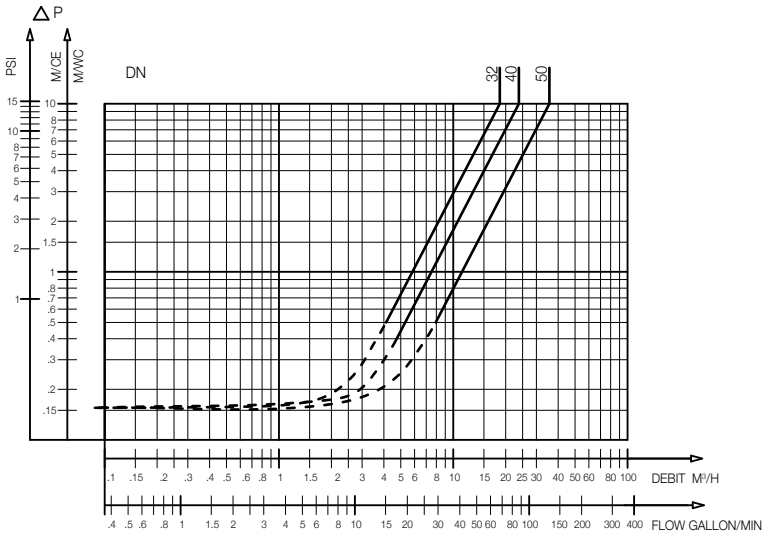
The pipe must be depressurised and purged (emptied of its fluid) in order to avoid any danger to the operator. If the installation has carried fluids which are dangerous in themselves if in contact with the outside atmosphere (inflammable, corrosive, toxic, explosive..) it must be thoroughly cleaned to eliminate all risks.
All fluid remaining in the valve must be removed.
The temperature of the valve must be lower than 35°C to avoid all risk of burning.
If necessary, perform the operation using suitable protection (clothing, gloves, mask...)

WARNING : In the case of use in an ATEX zone, electrostatic charges may be present in the internal parts of the valve. These electrostatic charges created by the flow of the fluid may present a risk of explosion. The user is responsible for taking all possible precautions against this risk.

- **Maintenance of the valve :**

All spare parts must be genuine Socla. All the parts in the maintenance kit must be used.
The list of spare parts are given in the technical datasheets.
The reference number of the valve and the manufacture serial number indicated on the identification plate must be quoted in any request for spare parts and during any claim or return of parts.
Using grease is not permitted in a « silicone-free » environment.
Grease must be compatible with the fluid being carried and the constraints of the installation.
After maintenance, it is recommended that the valve be re-tested by a trial under pressure at 1.5 X PMA (test P11 according to the standard EN12266-1).
In the case of use in an ATEX zone this test is compulsory.
- Check the continuity between the closing system and the free end of the braided wire using an ohmmeter (test according to the standard EN 12266-2 annexe B, point B. 2.2.2. and B.2.3.1).
In the case of use in an ATEX zone this test is compulsory.

Operation



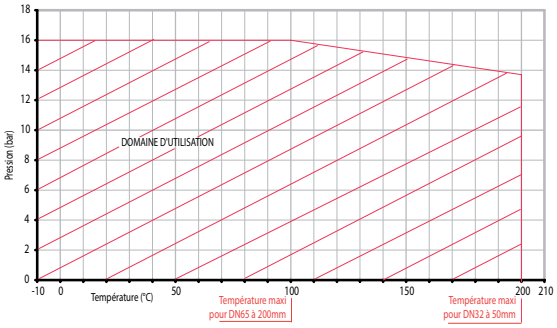
802T - Headloss chart

DN		Opening pressure in mm/CE				Kv	ζ
”	mm	↑	↓	↔	Without spring	m3/H	
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 :

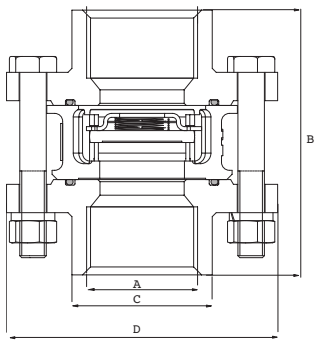
- Solid line: Valve completely open
- Dotted line: opening stage of valve

Pressure/Temperature Diagram



Sizing

A		B	C	D
”	mm	mm	mm	mm
1 1/4	32	100	53	102
1 1/2	40	105,5	61	108
2	50	118	73	127



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Socla sas
365 rue du Lieutenant Putier • 71530 Virey-Le-Grand • France
Tel. +33 03 85 97 42 00 • Fax +33 03 85 97 42 42
contact@wattswater.com • www.socla.com
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