805

Non-return valve with dual-plate

05 System

Technical Data Sheet



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Description

The 895 non-return valve's tightness is ensured by the spring force distribution on the plates guaranteeing a good press on the seat's seal.

- Operating position : horizontal and vertical ascending and descending
- Compact
- Very low head loss
- Sealing : metal on elastomere seat



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DN		PN	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
"	mm			L1	L2	G1	G2			
2	50	10/16	16	16	16	16	16	I	**149B3270**	1,2
2 1/2	65	10/16	16	16	16	15	16	I	**149B3271**	1,8
3	80	10/16	16	16	16	12	16	I	**149B3272**	2,9
4	100	10/16	16	16	16	10	16	I	**149B3273**	3,9
5	125	10/16	16	16	16	0,5	16	I	**149B3274**	5,8
6	150	10/16	16	13	16	0,5	16	I	**149B3275**	8
8	200	10/16	16	10	16	0,5	16	I	**149B3276**	14
10	250	10/16	16	10	16	0,5	14	I	**149B3277**	22
12	300	10/16	16	10	16	0,5	11	I	**149B3278**	34
14	350	10/16	16	10	16	x	10	I	**149B2590**	70
16	400	10/16	16	10	16	x	8	I	**149B3330**	85
18	450	10/16	16	10	16	x	7	I	**149B2592**	118
20	500	10/16	16	10	16	x	7	I	**149B2593**	180
24	600	10/16	16	10	16	x	5	I	**149B2594**	258

Important notice :

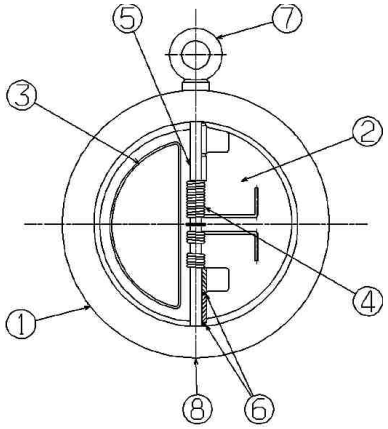
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our website www.socla.com or by requesting from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

Technical features

Operating temperature	-10 to 80°C for NBR seal, temperatures over 80°C (EPDM seal) consult us
Permissible operating pressure (PFA) in water	See table above
Maximum permissible pressure (PS) other mediums	See table above
Connection	Flanges drilled PN (see table)
Mediums	Clear water, gas

Nomenclature and materials

N°	Description		Materials
1	Body	DN 50 - 150	Cast iron / Epoxy
		DN 200 to 300 & 400	Cast iron / Epoxy
		* DN 350 & 450 - 600	Cast iron / Epoxy
2	Plates		Aluminium bronze
3	Seal	DN 50 - 300 & 400	EPDM
		DN 350 & 450 - 600	NBR (nitrile)
4	Spring		Stainless steel
5	Stem	DN 50 - 300 & 400	Stainless steel
		DN 350 & 450 - 600	
6	Bearings		PTFE
7	Eye bolt	DN > 150	Steel XC15
8	Plug		Brass



* External epoxy coating only

Approvals

CE PED 2014/68/UE

(DN 50 to 300 + DN 400)

International construction Standards :
Directive 2014/68/UE
Flange driling according to EN 1092-2
Overall dimensions according to EN558-1 series 50

Application

Pumping,water distribution, main circuits.
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

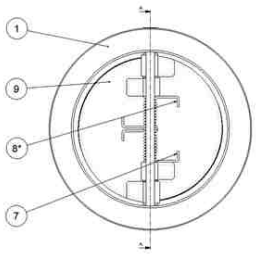
• Removing :

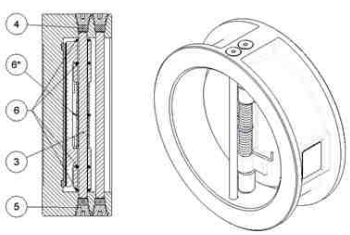
1. Unscrew the 4 plugs (N° 5) and remove the 4 seals (N° 4). Tip over the body (N° 1) if necessary
2. Remove the upper stem (N° 3)
3. Use this to remove the lower stem (N° 3)

WARNING: Keep the springs (N° 8 and 8*) in compression during this operation.

Remove the 2 plates (N° 9) and the bearings (N° 6 and 6*)

Type 805





• Reassembly :

Before reassembling the valve, check the condition of the seal. If necessary, clean and grease it by using appropriate grease.

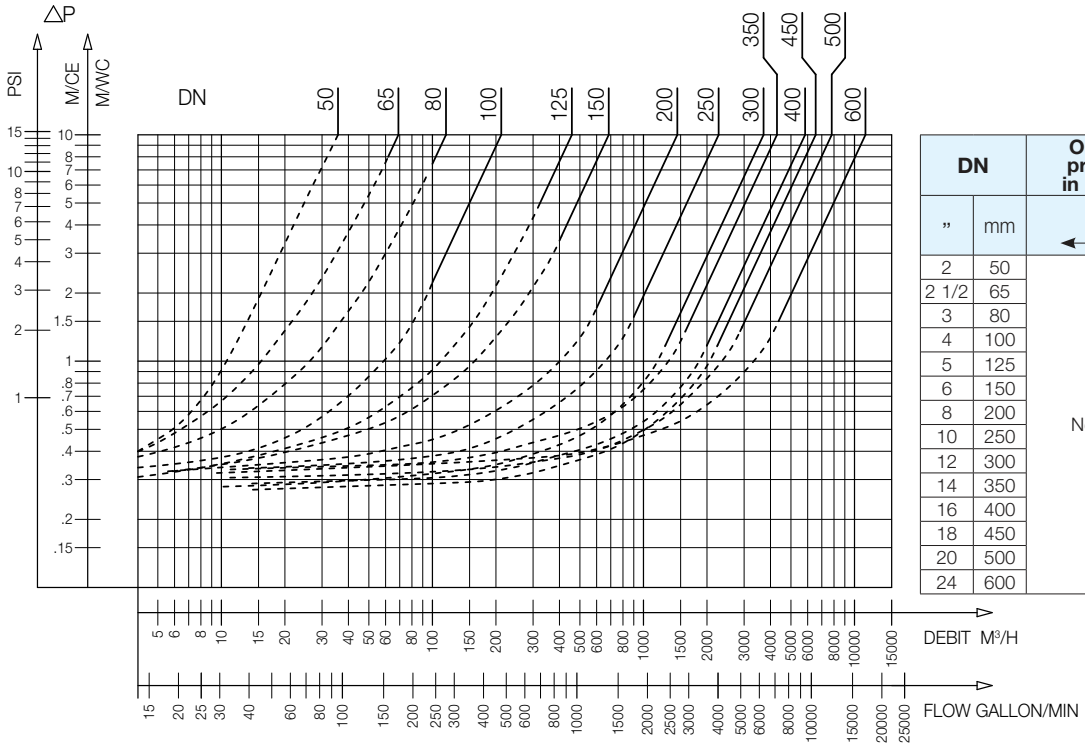
1. Put in place 2 seals (N° 5) on the same side of the body (N° 1)
2. Thread 2 plugs (N° 5) on the same side with a stop on the body (N° 1)
3. Place the 2 wings flat (N° 9) on the body (N° 1)
4. Engage the lower stem (N° 3) by sliding it into the body (N° 1), while positioning in the following order :
   - The first bearing (N° 6)
   - The first ear of the plate (N° 9)
   - The second bearing (N° 6)
   - The first ear of the second plate (N° 9)
   - The spring (N° 7)
   - The bearing (N° 6*)
   - The spring (N° 8*)
   - The second ear of the plate (N° 9)
   - The third bearing (N° 6)
   - The second ear of second plate (N° 9)
   - The fourth bearing (N° 6)
5. Push the stem against the seal (N° 4) by using the second stem to complete the operation
6. Put in place the upper stem (N° 3)
7. Place the 2 last seals (N° 4)
8. Screwed the 2 last plugs (N° 5)
9. Tighten then at Nm torques

Once the reassembly completed, test the device to verify its tightness.

Operation

Direction for use :

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

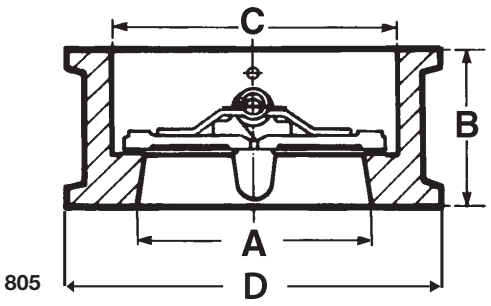


DN		Opening pressure in mm/CE	Kv	ζ
”	mm		m³/H	
2	50	Near to 0	35,7	7,81
2 1/2	65		69	5,9
3	80		116	4,8
4	100		212	3,6
5	125		458	1,9
6	150		685	1,7
8	200		1447	1,2
10	250		2271	1,2
12	300		3709	0,94
14	350		4293	1,3
16	400		5837	1,2
18	450		6547	1,5
20	500		7800	1,6
24	600		11269	1,6

805 - Headloss chart

Sizing

A		B	C	D
”	mm	mm	mm	mm
2	50	54	60	109
2 1/2	65	54	73	129
3	80	57	89	144
4	100	64	114	164
5	125	70	141	194
6	150	76	168	220
8	200	95	219	275
10	250	108	273	330
12	300	143	324	380
14	350	184	356	440
16	400	191	410	491
18	450	203	457	541
20	500	213	508	596
24	600	222	610	698



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