318/308

Non-return foot valve

B System

Technical Data Sheet

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Description

The non-return foot valve 318/308 consists of a self-cleaning ball lifted by the fluid and guided to a lateral seat, completely out of the way. This system provides a full-flow, even with loaded fluids, without any risk of blockage.

- Vertical position
- Minimum head loss
- Silent, robust
- Non incrustating materials
- Sealing guaranteed by the coating of the ball

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Non-return foot valve - B System

DN		PN	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
"	mm			L1	L2	G1	G2			
2 1/2	65	10/16	10	10	10	x	x	4.3	**149B3151**	12,5
4	100	10/16	10	10	10	x	x	4.3	**149B3153**	22,5
5	125	10/16	10	10	10	x	x	4.3	**149B3154**	35,0
6	150	10	10	10	10	x	x	4.3	**149B3155**	48,0
8	200	10	10	10	10	x	x	4.3	**149B3156**	85,0
10	250*	10	10	10	10	x	x	I	**149F019180**	157,9
12	300*	10	10	10	10	x	x	I	**149F018860**	261,4

*Type 308

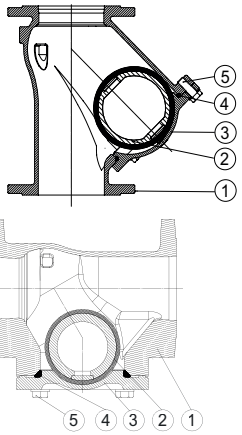
Important notice :

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 °C to 80 °C
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	Thick liquids, viscous liquids, loaded liquids

Nomenclature and materials

N°	Description		Materials
1	Body		Cast iron Epoxy
2	Ball	DN 50 to 100	Aluminium / NBR
		DN 125 to 350	Cast iron / NBR
3	Cover		Cast iron / Epoxy
4	Seal		NBR
5	Screw-washer		Stainless steel
	except Nut (Fig 408)		Galvanised steel
6	Screw		Stainless steel
7	Nut		Stainless steel
8	Flange		Cast iron / Epoxy
9	Screw		Stainless steel
10	Strainer		Galvanised steel



Approvals

PED 2014/68/UE

International construction Standards :
Directive 2014/68/UE
Flange drilling according to EN1092-2

Application

Viscous, loaded or thick liquids.

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.

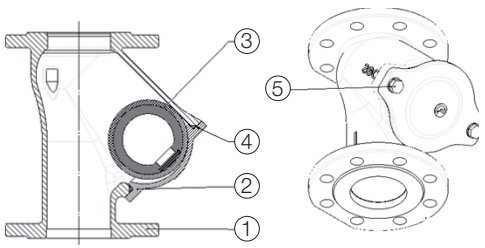
During a prolonged stoppage, a change in the state of the fluid may result in damage when the installation is brought back into service (solidification…).

Establish an adequate procedure program for cleaning the system.

Maintenance

• Removing :

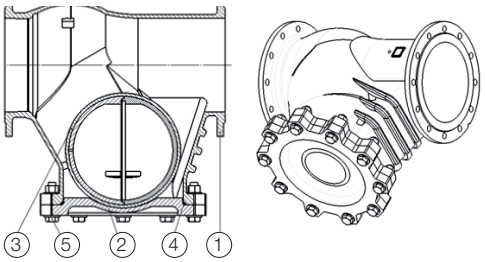
1. Unscrew the support screw assembly (N°5)
2. Remove the cover (N°2)
3. Remove the O-ring (N°4)
4. Tip over the body (N°1) for remove the ball (N°3)



• Reassembly :

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

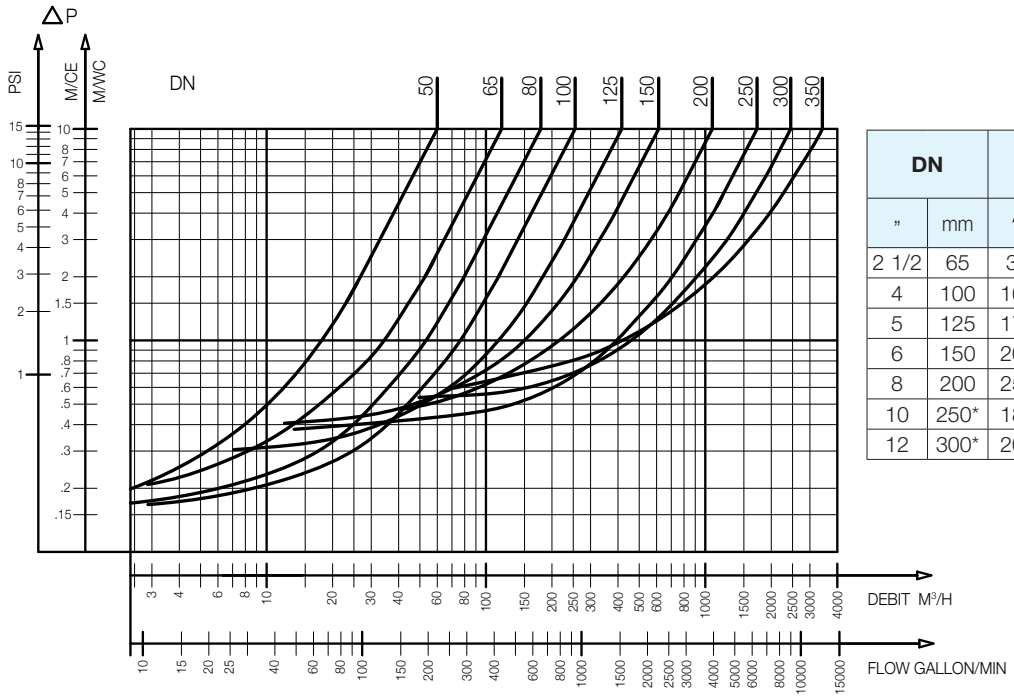
1. Place the ball (N°3) in the body (N°1)
2. Put in place the O-ring (N°4) on the cover (N°2)
3. Put in place the cover (N°2) on the body (N°1)
4. Tighten the screw assembly (N°5) to the contact and then :
   a. Tighten to the couple of 35 Nm for the FIG.418 up to DN100 included
   b. Tighten with a suitable tool for the others references



Operation

Direction for use :

• Solid line: Valve completely open



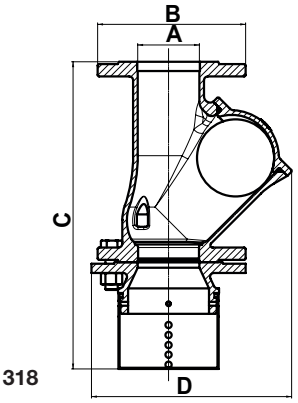
DN		Opening pressure in mm/CE		Kv	ζ
"	mm	↑	↔	m³/H	
2 1/2	65	30	Near to 0	117,80	2,05
4	100	160		261	2,45
5	125	170		418,90	2,20
6	150	200		615,10	2,15
8	200	250		1077,80	2,20
10	250*	180		1723,70	2,10
12	300*	200		2453	2,15

318/308 - Headloss chart

Sizing

DN		B	C	D
"	mm	mm	mm	mm
2 1/2	65	185	324	214
4	100	220	467	289
5	125	250	401	368
6	150	285	649	424
8	200	340	826	509
10	250*	400	966	582
12	300*	455	1112	721

*Type 308



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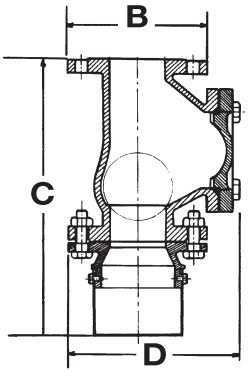

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