

402 TTP

Non-return axial guided valve

02 System

Technical Data Sheet



Description

- Operates in any position
- Minimum head loss
- Silent, reliable sealing, compact
- Exceptional robustness
- Does not generate hammering
- Closing system : long back axial guiding and reduced displacement
- Sealing guaranteed by an EPDM seal
- Return spring
- 2 threaded bosses 1/4" sealed with plugs
- Internal/external PTFE coated



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DN in mm	PN	PFA in bar	PS in bar				Cat	Ref.	Weight Kg	
			L1	L2	G1	G2				
2	50	10/16	16	16	16	16	I	149B2853	5,8	
2 1/2	65	10/16	16	16	16	15	16	I	149B2854	8,1
3	80	10/16	16	16	16	12	16	I	149B2855	10,2
4	100	10/16	16	16	16	10	16	I	149B2856	14,5
5	125	10/16	16	16	16	0,5	16	I	149B2857	24
6	150	10/16	16	13	16	0,5	16	I	149B2858	32
8	200	10	10	10	10	0,5	10	I	149B2859	53
10	250	10	10	10	10	0,5	10	I	149B2860	94
12	300	10	10	10	10	0,5	10	I	149B2861	140
14	350	10	10	10	10	0,5	10	I	149B2862	225
16	400	10	10	10	10	0,5	8	I	149B2863	312

Important notice :

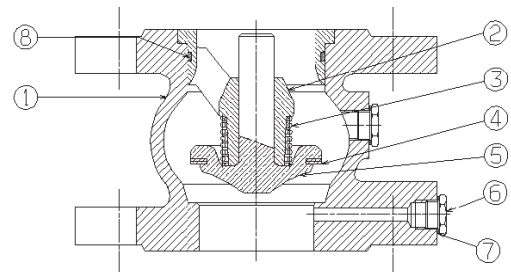
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our web site www.socla.com or by requesting from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

Technical features

Operating temperature	-10 °C to 100 °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	Not loaded liquids, gas

Nomenclature and materials

N°	Description	Materials	EURO	ANSI
1	Body	Cast iron / PTFE	EN 1561 EN-GJL-250	ASTM A 48 35 B
2	Ring	Bronze	EN 1982 CuSn12-C GS	
3	Guide	DN 50 mm	Bronze	EN 1982 CuSn5Zn5Pb2-C GS
		Others DN	Cast iron / PTFE	EN 1561 EN-GJL-250
4	Spring	Stainless steel	EN 10270-3 X10CrNi18-8	AISI 302
5	Seal	EPDM		
6	Closing system	DN 50-65 mm	Bronze	EN 1982 CuSn5Zn5Pb2-C GS
		Others DN		EN 10213 GX5CrNi19-10+AT
7	Stem	Bronze	EN 1982 CuSn5Zn5Pb2-C GS	
8	Plug	Brass	EN 12164 CuZn36Pb2As R350	
9	Seal	EPDM		



Approvals



International construction Standards :

Directive 2014/68/UE

Flange drilling according to EN1092-2

Application

The non-return valve 402TTP SOCLA is the most universal for water supply, pumps protection, general circuits, boosters and water distribution. It can be installed in any position with not loaded liquids and gas.

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.

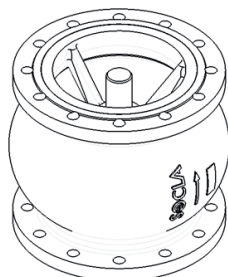
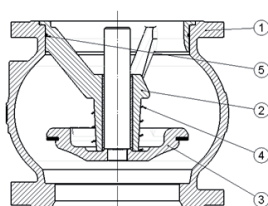
During a prolonged stoppage, a change in the state of the fluid may result in damage when the installation is brought back into service (solidification...).

Establish an adequate procedure program for cleaning the system.

Maintenance

• Removing :

1. Remove guide assembly (N°2)
2. Remove the o-ring seal (N°5) from its groove
3. Remove the spring (N°4)
4. Remove all the closing system (N°3)



• Reassembly :

Make sure that the seal is in a good condition before reassembly the valve.

Clean and lubricate it if necessary with a suitable product.

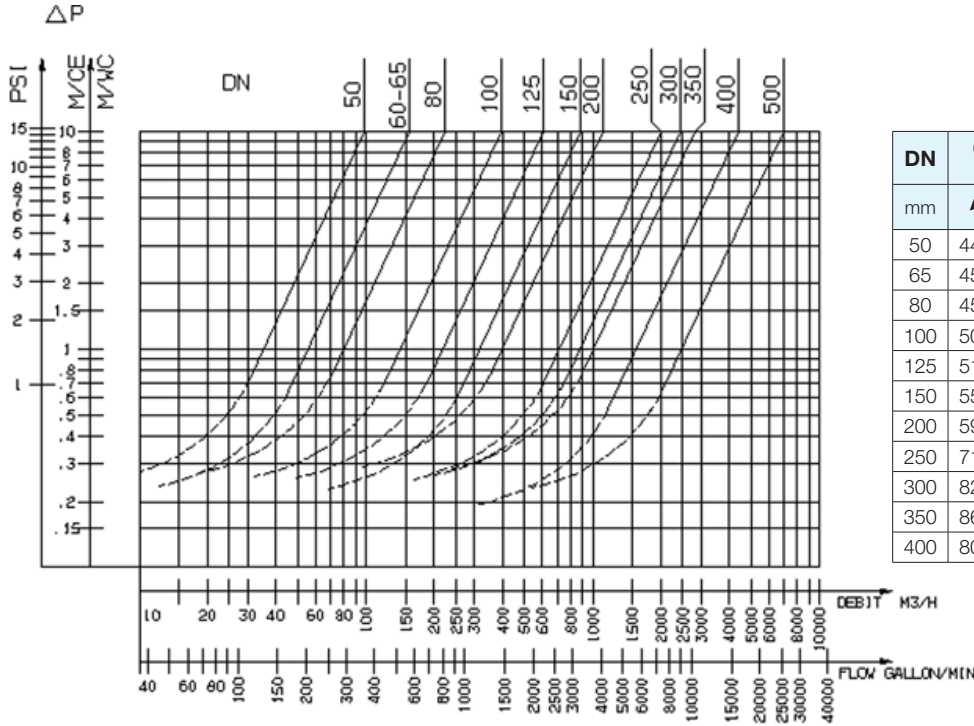
1. Put all the closing system (N°3) into the casing (N°1)
2. Insert the spring (N°4)
3. Put the o-ring seal (N°5) in its groove
4. Insert the guide assembly (N°2). This step may require to use a press.

Once the reassembly done, test the device in order to check its sealing.

Operation

Direction for use :

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

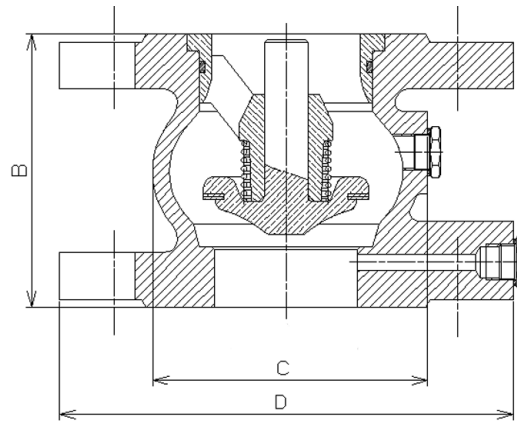


DN	Opening pressure in mm CE				Kv	ζ
	↑	↓	↔	Without spring		
50	440	220	330	110	99,00	1,00
65	450	190	320	130	159,00	1,10
80	450	190	320	130	222,00	1,30
100	500	240	370	130	396,00	1,00
125	510	210	360	150	619,00	1,00
150	550	210	380	170	890,00	1,00
200	590	210	400	190	1120,00	2,00
250	710	210	460	250	2010,00	1,50
300	820	90	460	365	2459,00	2,10
350	860	100	480	380	2843,00	2,90
400	800	50	410	390	4370,00	2,10

402 TTP - Headloss chart

Sizing

DN	A	B	C	D
"	mm	mm	mm	mm
2	50	100	97	165
2 1/2	65	120	125	185
3	80	140	150	200
4	100	170	187	220
5	125	200	220	250
6	150	230	250	285
8	200	288	340	340
10	250	354	420	405
12	300	395	490	460
14	350	472	586	533
16	400	560	680	597



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

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