402

Non-return axial guided valve 02 System

Technical Data Sheet







Description

A non-return valve is compatible with many types of fluids and can be adapted to a wide range of installations. However, each of these installations comes with their own particular constraints: mechanical, hydraulic, physical or chemical. The 02 system offers the best compromise between hydraulic performance, ruggedness, sealing-tightness and cost effectiveness with any kind of liquids (subject to a validation of our recommendation service).

Our valves meet the requirements of the Pressure Equipment Directive 2014/68/UE. This range extends from 40 to 500 mm. By its technology, it operates in any position for a lot of applications. It's compact and it doesn't generate hammering.

- Internal and external Epoxy coating increasing resistance to corrosion
- Hydraulic shape means very little energy loss
- Bronze quide ring enables a better movement of the closing system and preventing premature wear
- Excellent sealingtightness ensured by an EPDM seal
- Stainless steel spring allowing system to function in any position
- Passage for cables of submersible pumps



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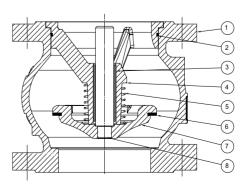
Non-return axial guided valve - 02 System

	DN PN in mm	PFA in bar	PS in bar				Cat	Ref.	Weight	
			L1	L2	G1	G2	Cat	nei.	Kg	
Important notice:	40	10/16	16	16	16	16	16	1	149B2281	4,2
	50	10/16	16	16	16	16	16	1	149B2282	5,8
	60	10/16	16	16	16	16	16	I	149B1176	8,1
	65	10/16	16	16	16	15	16	1	149B2283	8,1
	80	10/16	16	16	16	12	16	1	149B2284	10,2
	80	10/16	16	16	16	16	16	II	149B2284C2	10,2
	100	10/16	16	16	16	10	16	I	149B2285	14,5
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.	100	10/16	16	16	16	16	16	II	149B2285C2	14,5
	125	10/16	16	16	16	0,5	16	1	149B2226	24
	125	10/16	16	16	16	16	16	II	149B2226C2	24
	150	10/16	16	13	16	0,5	16	I	149B2227	32
	150	10/16	16	16	16	16	16	II	149B2227C2	32
	200	10	10	10	10	10	10	II	149B2229	53
	250	10	10	10	10	10	10	II	149B2230	94
	300	10	10	10	10	10	10	II	149B2231	140
	350	10	10	10	10	0,5	10	II	149B2232	225
	400	10	10	10	10	0,5	10	II	149B2233	312
•	500	10	10	10	10	0.5	10		149B2235	540

Technical features					
Operating temperature	-10 °C at 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	DN 40-400		Cast iron/Epoxy	EN 1561 EN-GJL-250	ASTM A 48 35 B
	DN 500		Cast iron/Epoxy	EN 1563 EN-GJS-400-15	ASTM A 536 65-45-12
2 O-ring seal	DN 40-250		EPDM		
3 Ring			Bronze	EN 1982 CuSn5Zn5Pb2-C GS	
	DN 50		Bronze	EN 1982 CuSn5Zn5Pb2-C GS	
4 Guide	DN 40 & 60-400		Cast iron/Epoxy	EN 1561 EN-GJL-250	ASTM A 48 35 B
	DN 500		Cast iron/Epoxy	EN 1563 EN-GJS-400-15	ASTM A 536 65-45-12
5 Spring			Stainless steel	EN 10270-3 X10CrNi18-8	AISI 302
6 Seal			EPDM		
	DN 40		Brass	EN 12164 CuZn40Pb2 R360 mini	
	DN 50-65		Bronze	EN 1982 CuSn5Zn5Pb2-C GS	
7-8 Closing system	DN 80-400	Stem	Bronze	EN 1982 CuSn5Zn5Pb2-C GS	
		Check-valve	Cast iron/Epoxy	EN 1561 EN-GJL-250	ASTM A 48 35 B
	DN 500	Stem	Bronze	EN 1982 CuSn12-C GS	
	DN 500	Check-valve	Cast iron/Epoxy	EN 1563 EN-GJS-400-15	ASTM A 536 65-45-12





Approvals





WRAS kiwa

International construction Standards:

CE Conformity Directive 2014/68/UE Flange driling according to EN1092-2

Application

The non-return valve 402 SOCLA is the most universal for water supply, pumps protection, general circuits, boosters and water distribution.

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.

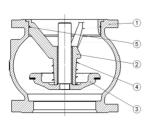
During a prolonged stoppage, a change in the state of the fluid may result in damage when the installation is brought back into service (solidification...).

Establish an adequate procedure program for cleaning the system.

Maintenance

• Removing:

- 1. Remove the 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.

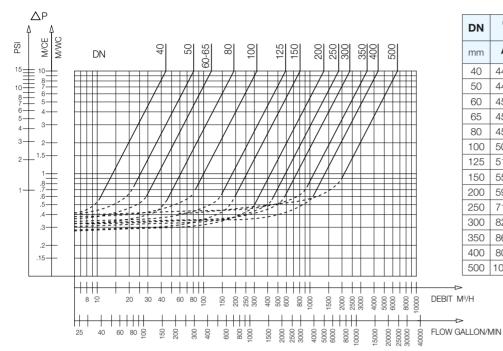
- 1. Put all the closing system (N°3) into the casing (N°1)
- 2. Insert the spring (N°4)
- 3. Put the o-ring seal (N°5) in its groove
- 4. Insert the guide assembly (N°2). This step may require to use a press.

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

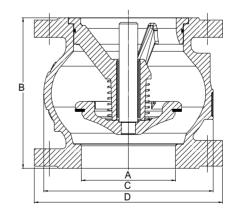


DN	Ор	ening in m	Kv	7		
mm	^	\	↔	Without spring	m³/H	
40	440	210	320	120	44,20	2,10
50	440	220	330	110	80,80	1,50
60	450	190	320	130	118,50	1,50
65	450	190	320	130	118,50	2,00
80	450	190	320	130	192,80	1,80
100	500	240	370	130	318,00	1,60
125	510	210	360	150	590,00	1,10
150	550	210	380	170	807,50	1,25
200	590	210	400	190	1351,00	1,40
250	710	210	460	250	1861,80	1,80
300	820	90	460	365	2371,70	2,30
350	860	100	480	380	3444,70	2,00
400	800	50	410	390	4371,20	2,14
500	1030	0	430	580	6646,20	2,26

402 - Headloss chart

Sizing

Α	В	С	D
mm	mm	mm	mm
40	85	80	150
50	100	97	165
60	120	125	185
65	120	125	185
80	140	150	200
100	170	187	220
125	200	220	250
150	230	250	285
200	289	340	340
250	354	420	405
300	396	490	460
350	473	586	533
400	560	680	597
500	750	880	670



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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