402B/402

Double chek valves

System 02

Technical Data Sheet

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Description

Double check valves consisting of two 402 bolted with seal.

- Operates in all positions
- Minimal pressure loss
- Quiet, leak-proof, compact
- Exceptional robustness
- Does not generate water hammer
- Notches for submersible pump cable passage up to DN 100
- Shutter with long downstream axial guide and reduced stroke
- Sealing ensured by a flat seal
- Return spring

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Double check valves - System 02

DN		PN	PFA in bar	Cat	Réf.	Weight Kg
"	mm					
1 1/2	40	10/16	16	I	**149B24015**	9,8
2	50	10/16	16	I	**149B16023**	11,6
2 1/2	65	10/16	16	I	**149B16024**	16,2
3	80	10/16	16	I	**149B16025**	20,4
4	100	10/16	16	I	**149B16026**	29,0
5	125	10/16	16	I	**149F020400**	48,0
6	150	10/16	16	I	**149B16028**	64,0
8	200	10/16	10	II	**149B96175**	106,0
10	250	10/16	10	II	**149B97019**	188,0
12	300	10/16	10	II	**149B97020**	280,0
14	350	10/16	10	II	**149B97021**	455,0
18	400	10/16	10	II	**149B97022**	624,0

Important :

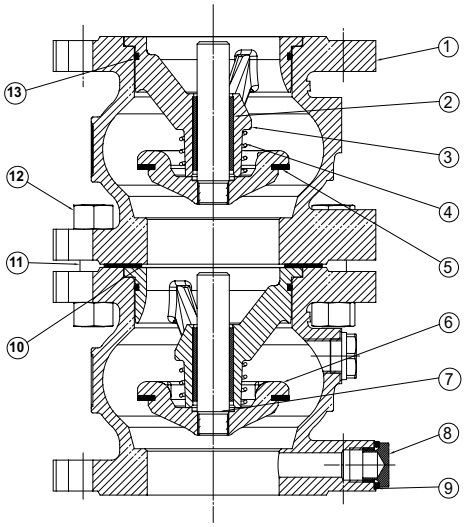
The temperature and pressure specifications given for the different fluid categories (L1/L2/G1/G2) do not constitute a guarantee of use. It is therefore essential to check the suitability of the products for use in specific operating conditions with our recommendations department. In addition, the operating instructions are available on our website www.socla.com or on request from our sales department.

Technical features

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

Nomenclature and materials

N°	Descriptionn		Materials
1	Body		Cast Iron / Epoxy
2	Ring		Bronze
3	Guide	DN 50	Bronze
		Others DN	Cast Iron / Epoxy
4	Spring		Stainless steel
5	Seal		EPDM
6	Closing system	DN 40 and 65	Bronze
		Others DN	Cast Iron / Epoxy
7	Stem	DN 40	Brass
		DN 50 to 400	Bronze
8	Cap		Brass
9	Ring		EPDM
10	Ring		EPDM
11	Threaded rod	DN 50 to 125	Stainless steel
		DN 125 to 400	Galvanized steel
12	Nut		Galvanized steel
13	Ring		EPDM



Approvals

Approvals from 402B and 402 :

ACS kiwa VdS CE PED 2014/68/UE BUREAU VERITAS

The approvals presented cover the references of the unit models.

Standards/Regulations:
Flange drilling in accordance with EN1092-2

Installation

Installation :

Before commissioning, check that:

- the operating conditions are compatible with the data on the nameplate, the instruction manual, and the manufacturer's data,
- the valve is working properly by opening and closing the shutter a few times,
- the valve is free of any internal contamination.

On a new installation or after maintenance, the circuit must be flushed to remove any solid particles that could damage the internal parts of the valve.

Commissioning :

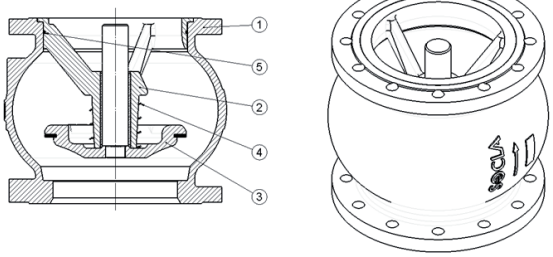
The circuit must be pressurized gradually to avoid damaging the internal parts of the valve.

Check that when the flow stops, the valve retains the pressure and that there is no water hammer, which could damage the valve and the installation. If water hammer occurs, an anti-water hammer system must be installed.

During a prolonged shutdown, a change in the state of the fluid may cause damage when the system is restarted (solidification, etc.). Implement an appropriate procedure and, if necessary, clean the circuit.

Maintenance

- **Disassembly :**
  1. Remove the guide assembly (No. 2)
  2. Remove the O-ring (No. 5) from its groove
  3. Remove the spring (No. 4)
  4. Remove the shutter assembly (No. 3)



- **Reassembly :**

Before reassembling the valve, check the condition of the seal.

If necessary, clean and lubricate it using a suitable product.

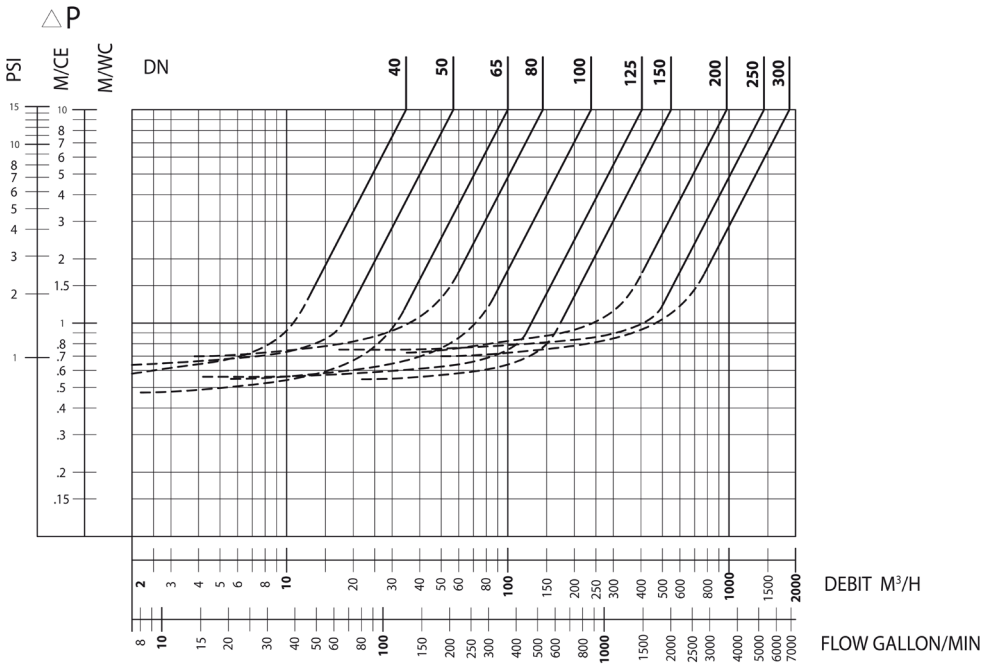
1. Place the shutter assembly (No. 3) in the tank (No. 1).
2. Put the spring (No. 4) in place.
3. Place the O-ring (No. 5) in its groove
4. Put the guide assembly (No. 2) in place. This operation may require the use of a press.

Once reassembly is complete, test the device to check its tightness.

Operation

Operating mode:

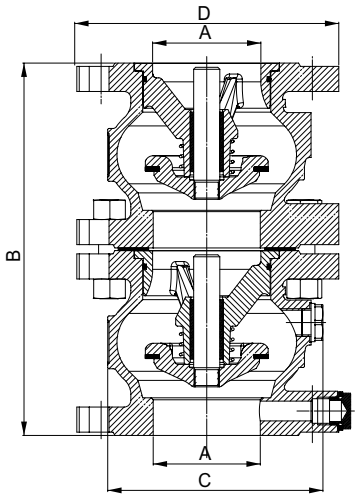
- Solid line: Valve fully open
- Dotted line: Valve opening phase



402B/402 - Headloss chart

Sizing

DN	A	B	C	D
"	mm	mm	mm	mm
1 1/2	40	172	80	150
2	50	202	97	165
2 1/2	65	242	125	185
3	80	282	150	200
4	100	342	187	220
5	125	402	220	250
6	150	462	260	285
8	200	578	340	340
10	250	704	420	405
12	300	792	490	485
14	350	946	586	555
16	400	1122	680	620



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