

# 212

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 O2 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 65 to 100 mm. By its technology, it operates in any position. It's compact and it doesn't generate hammering.



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Non-return axial guided valve - O2 System

DN		PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
"	mm		L1	L2	G1	G2			
2 1/2	65	16	16	16	15	16	I	<b>149B2454</b>	2,7
3	80	16	16	16	12	16	I	<b>149B2455</b>	5,3
4	100	16	16	16	10	16	I	<b>149B2456</b>	8,7



### Important notice :

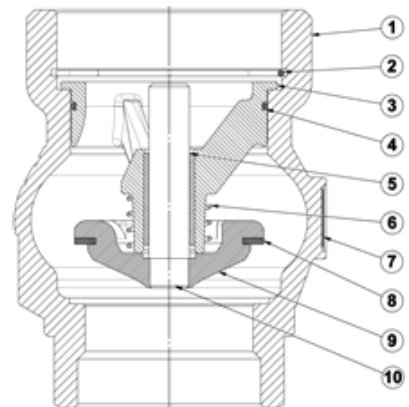
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our web site [www.socla.com](http://www.socla.com) 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	Male / female, G cylindrical gas thread (BSP)
Mediums	Clear liquids

### Nomenclature and materials

N°	Description	Matériels	EURO
1	Body	Cast iron/Epoxy	EN1561 EN-GJL-250
2	Rush	Stainless steel	EN 10270-3 X10CrNi18-8
3	Guide	Bronze (DN 2"1/2) Cast iron/Epoxy (DN 3-4")	EN 1982 CuSn5Zn5Pb2-C GS EN1561 EN-GJL-250
4	O'ring seal	EPDM	
5	Bush	Bronze (DN 3" and 4")	EN 1982 CuSn5Zn5Pb2-C GS
6	Spring	Stainless steel	EN 10270-3 X10CrNi18-8
7	Rating plate		
8	Seal	EPDM	
9	Closing system	Bronze (DN 2"1/2 and 3) Fonte/Epoxy (DN 4")	EN 1982 CuSn5Zn5Pb2-C GS EN1561 EN-GJL-250
10	Stem	Bronze (DN 4")	EN 1982 CuSn5Zn5Pb2-C GS



## Approvals



### International construction Standards :

Directive 2014/68/UE  
Overall dimensions adapted to submersible pumps  
Thread connection NF EN ISO 228-1

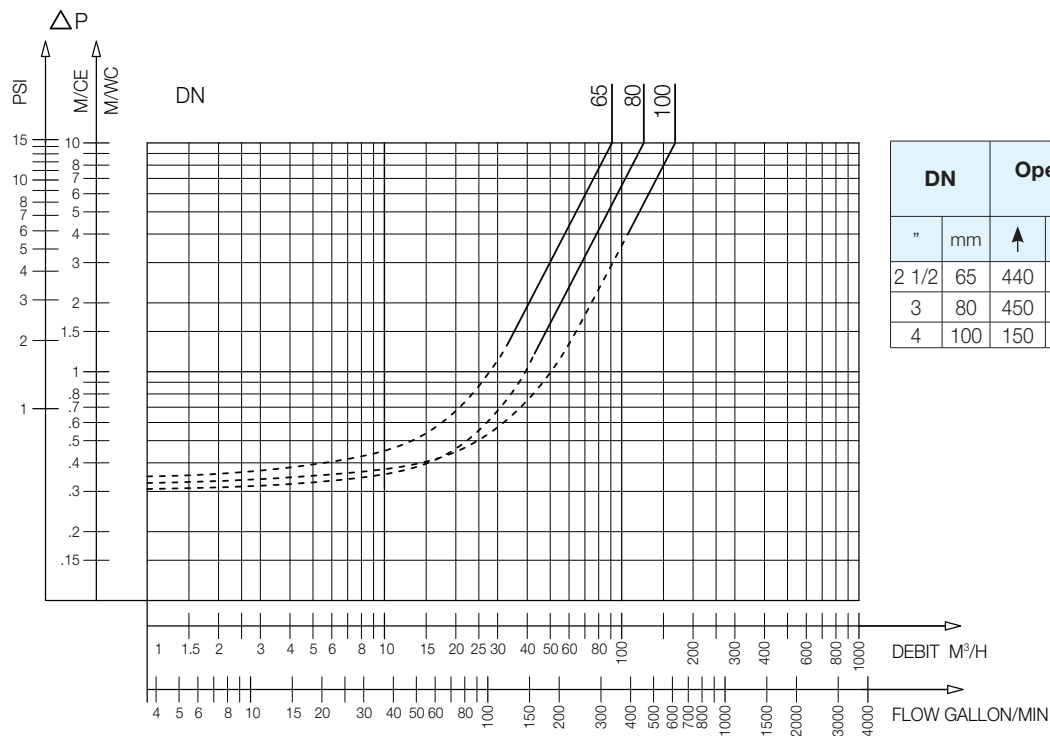
## Application

Submersible pumps, water distribution.

## Operation

### Direction for use :

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

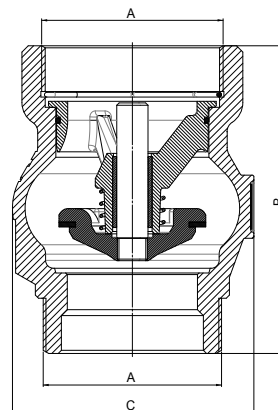


DN	Opening pressure in mm CE				Kv	ζ	
	"	mm	↑	↓			↔
2 1/2	65	440	220	330	110	91	3,44
3	80	450	190	320	130	124,6	4,21
4	100	150	190	320	130	168	5,66

212 - Headloss chart

## Sizing

A		B	C
"	mm	mm	mm
2 1/2	65	139	99
3	80	165	127
4	100	195	152



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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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