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Axial guided non-return valves
System 02

Technical Data Sheet



Description

The O2 system offers the best compromise between hydraulic performance, ruggedness, sealing-tightness and price for use with clear liquids : pumping, supply, distribution, general circuits. This range extends from 40 to 500 mm for both non-return valves and foot valves, thereby suiting a large number of applications, especially where there may be a risk of water hammer.

- Operates in any position
- Minimum head loss
- Silent, reliable sealing, compact
- Exceptional robustness
- Does not generate hammering
- Closing system : short back axial guiding for reduced displacement
- Return spring
- Between flanges PN10/16/25/ ASA150 and PN40 for DN 80,100, 150, 200 and 250.



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Axial guided non-return valves - System O2

DN	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg
		L1	L2	G1	G2			
3 80	40	25	40	12	40	I	149B2731	3,3
4 100	40	20	40	10	40	I	149B2732	5
6 150	25	13	25	0,5	23	I	149B2734	13
6 150	40	13	40	0,5	23	I	149B2735	13
8 200	16	10	16	0,5	16	I	149B2467	23,5
8 200	40	10	40	0,5	17	I	149B032459	24
10 250	25	10	25	0,5	14	I	149B2468	33
10 250	40	10	40	0,5	14	I	149B032460	33,5
12 300	25	10	25	0,5	11	I	149B2460	59
14 350	16	10	16	0,5	10	I	149B2461	103
14 350	25	10	25	0,5	10	I	149B032461	103
16 400	25	10	25	0,5	8	I	149B2462	124
20 500	25	10	25	0,5	7	I	149B2463	237

Important notice :

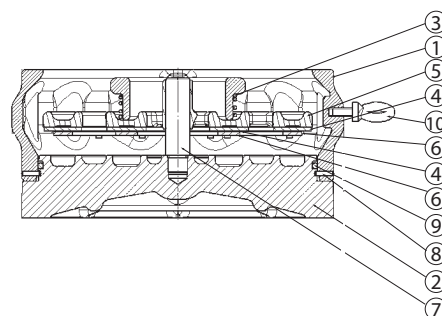
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.

Technical features

Operating temperature	-10°C at 100°C (80°C for DN80/100/150)
Permissible operating pressure (PFA) in water	See table above
Maximum permissible pressure (PS) other mediums	See table above
Connection	Mounting between flanges
Mediums	Clear liquids, gas

Nomenclature and materials

N°	Description	Materials	EURO	ANSI
1	Body	Ductile iron/Epoxy	EN-GJS-400.15	ASTM A 536 60-40-18
2	Seat	Ductile iron/Epoxy	EN-GJS-400.15	ASTM A 536 60-40-18
3	Spring	Stainless steel	X10CrNi18-8	AISI 302
4	Seal (except DN 80-150 mm)	EPDM		
5	Closing system	PU		
	DN 80-150 mm	PU		
	Other DN	Stainless steel	GX5CrNi18-10	AISI 304
6	Plates (except DN 80-150 mm)	Stainless steel	X5CrNi18-10	AISI 304
7	Stem	Brass	CuZn39Pb2	
	DN 80-150 mm	Brass	CuZn39Pb2	
	Other DN	Bronze	CuSn5Zn5Pb5-C	ASTM B 505
8	Screw	Stainless steel	X5CrNi18-10	AISI 304
9	O-ring	EPDM		
10	Disc holding	Galvanised steel		



Approvals



International construction Standards :

CE conformity directive 2014/68/UE

Flange drilling according to EN 1092-2

Size according to EN558 series 51 (DN 250-500)

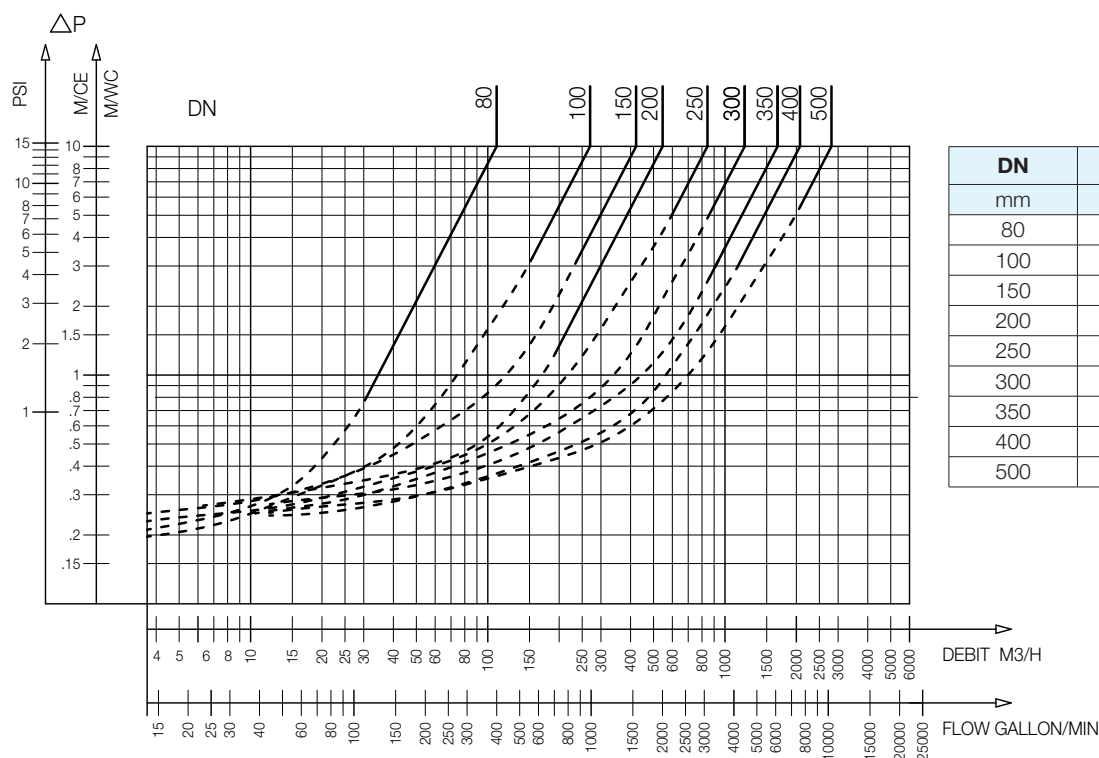
Application

Booster pumps, water distribution, industry.

Operation

Direction for use :

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

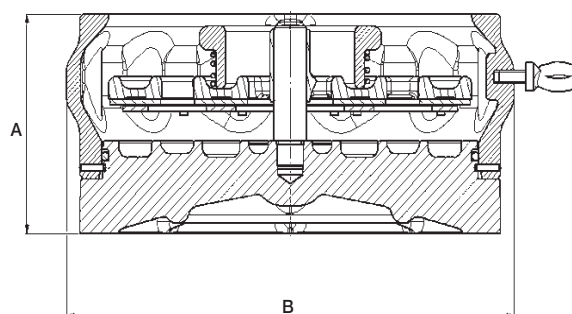


DN	Kv	ζ
mm	m ³ /H	
80	109	5,42
100	270	2,2
150	422	4,52
200	546	8,57
250	844	8,74
300	1211	8,8
350	1667	8,6
400	2072	9,5
500	2811	12,63

892 - Headloss chart

Sizing

DN	A	B				
		PN10	PN16	PN25	PN40	ASA150
mm	mm					
80	80	142	142	142	142	142
100	100	162	162	170	170	170
150	150	218	218	225	225	218
200	129	273	273	-	-	273
200	129	-	-	285	285	-
250	140	328	328	339	-	328
250	140	-	-	-	355	-
300	181	381	381	405	-	405
350	222	440	440	-	-	440
350	222	-	-	460	-	-
400	232	493	493	513	-	513
500	292	596	623	623	-	596



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