

Technical data sheet

Type 802Z Non-return valve W System

Applications and special features



- Operates in any position
- Easy to install and dismantle , minimum occupation of space
- Low headloss
- Does not generate hammering
- Closing system : disc with parabolic edges with return spring ; lateral guiding by 3 or 4 ribs (ND15 to 100)
- Closing system with back axial guiding and return spring (ND 125 to 200)
- Metal/metal sealing (machined trim)
- Using these checkvalves on networks equipped with piston pumps or compressors is not recommended.

Technical description

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.

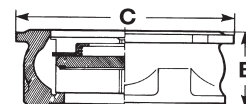
DN "	mm	PN	PFA in bar	PS in bar				Cat.	References	Vvs-nr
				L1	L2	G1	G2			
1 1/4	32	6/16	16	16	16	16	16	I	149B 2413Z	
1 1/2	40	6/16	16	16	16	16	16	I	149B 2414Z	
2	50	6/16	16	16	16	16	16	I	149B 2415Z	
2 1/2	65	6/16	16	16	16	15	16	I	149B 2416Z	
3	80	6/16	16	16	16	12	16	I	149B 2417Z	
4	100	6/16	16	16	16	10	16	I	149B 2418Z	
5	125	6/16	16	16	16	0,5	16	I	149B 2439Z	
6	150	6/16	16	13	16	0,5	16	I	149B 2440Z	
8	200	6/16	16	10	16	0,5	16	I	149B 2441Z	

- **Connections** : between flanges PN see table
- **Acceptable pressure PFA in water** : (conveyance, distribution and draining) : see the table
- **Acceptable maxi pressure PS other fluids** : see the table
- **θ** : Mini. -10 °C
Maxi. 230 °C
- **Mediums** : Clear liquids
- **Leakage rate** : according to EN 12266-1 rate E
- **Approvals** : ACS PED 2014/68/UE
- **International construction Standards** :
In accordance with CE directive 97/23/CE
Connections EN 1092-2
Connections according to ASA B16.1
class 125RF
Dimensions according to EN 558.1 serie 49

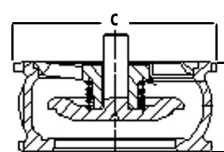
Overall dimensions

DN		B	C - PN6	C - PN10/16/ ASA150	Weight
"	mm				
1 1/4	32	28	78	84	0,35
1 1/2	40	31,5	88	94	0,52
2	50	40	98	109	0,73
2 1/2	65	46	118	129	1,52
3	80	50	134	144	2,17
4	100	60	154	162	3,35
5	125	90	-	192	8,55
6	150	106	-	218	12,70
7	175	125	-	248	21,60
8	200	140	-	273	23,40

DN 1"1/4 to 4"



DN 5 to 8"

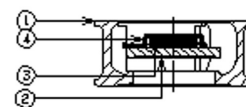


Technical data sheet **Fig. 802Z** - Non-return valve

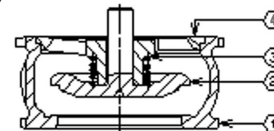
Spare parts list and materials

N°	Description	Materials	EURO	ANSI
1	CASING DN 32 to 200	Bronze	CuSn5Zn5Pb2-C	ASTM B 505
2	CLOSING SYSTEM DN 32 to 100	Stainless steel	X2CrNiMo17-12-2	AISI 316L
	DN125 to 200	Bronze	CuSn5Zn5Pb2-C	ASTM B 505
3	SPRING	Stainless steel	X10CrNi18-8	AISI 302
4	STOP / GUIDE DN 32 to 65	Stainless steel	X2CrNiMo17-12-2	AISI 316L
	DN80 to 100	Stainless steel	X2CrNi18.9	AISI 304L
	DN125 to 200	Bronze	CuSn5Zn5Pb2-C	ASTM B 505

DN 1"1/4 to 4"



DN 5 to 8"



Working principle

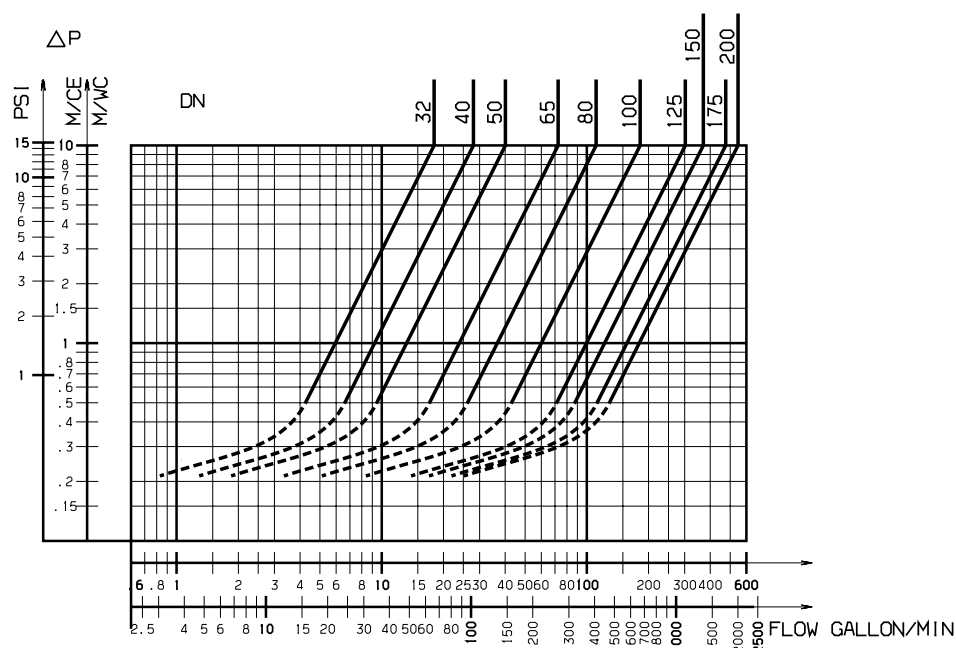
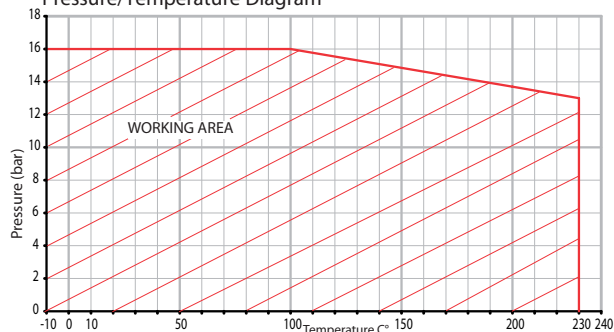
DN	mm	Opening pressure mm/WC				Kv	ζ
		↑	↓	↔	Without spring		
1 ^{1/4}	32	190	130	160	30	18,00	5,0
1 ^{1/2}	40	200	120	160	40	28,00	5,1
2	50	210	110	155	50	40,10	6,1
2 ^{1/2}	65	210	100	155	55	72,50	5,3
3	80	226	95	160	65	111,00	5,2
4	100	235	75	155	80	182,00	4,7
5	125	335	75	205	130	302,00	4,2
6	150	360	70	215	145	370,00	5,8
7	175					475,00	6,5
8	200	515	105	310	205	546,00	8,4

Directions for use

Solid line : Valve completely opened

Dotted line : Opening stage of valve

Pressure/Temperature Diagram



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