

## Technical data sheet

### Type 412X

#### Non return valve

#### System 02

#### Applications and special features



- Operates in any position
- Minimum head loss
- Silent, reliable sealing, compact
- Exceptional robustness
- Does not generate hammering
- Closing system : long back axial guiding for reduced displacement
- Sealing guaranteed by a flat seal
- Return spring
- Two cable passage notches (submersible pumps)

#### Technical description

DN	"	PN	PFA in bar	PS in bar				Cat.	References	Vvs-nr
				L1	L2	G1	G2			
5	125	10/16	16	16	16	0,5	16	I	Special	
6	150	10/16	16	13	16	0,5	16	I	Special	
8	200	16	16	10	16	0,5	16	I	Special	
10	250	16	16	10	16	0,5	14	I	Special	
12	300	16	16	10	16	0,5	11	I	Special	

#### Important notice :

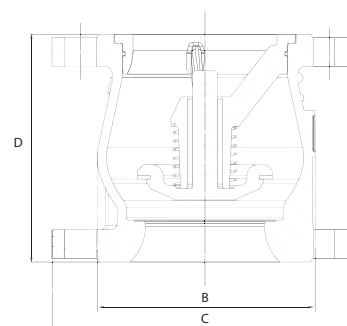
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.

- **Connection** : flanges drilled PN : see table .
- **Permissible operating pressure PFA - water-** (for supply, distribution and disposal of water) : See table
- **Maximum permissible pressure PS - other mediums :**  
See table
- **T° :** Mini. -10 °C  
Maxi. 100 °C
- **Mediums :** Gas, clear liquids
- **Approvals :** ACS - PED 97/23/CE

- **International construction Standards :**  
CE Conformity Directive 97/23/CE  
Flange drilling according to EN1092-2  
Overall dimensions adapted to submersible pumps

#### Overall dimensions

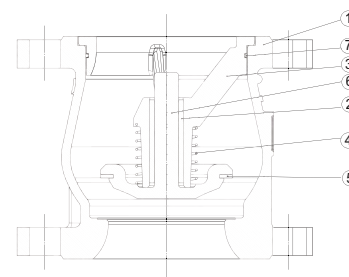
DN		B	C	D	Weight
"	mm	mm	mm	mm	kg
5	125	190	250	201	20
6	150	212	285	220	27,5
8	200	266	340	280	49,2
10	250	324	405	345	90
12	300	420	460	365	120



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### Spare parts list and materials

Nb	Description	Materials	EURO	ANSI
1	CASING	Cast iron/epoxy	EN 1561 EN-GJL-250	ASTM A 48 35 B
2	RING	Bronze	EN 1982 CuSn12-C GS	
3	GUIDE	Cast iron/epoxy	EN 1561 EN-GJL-250	ASTM A 48 35 B
4	SPRING	Stainless steel	EN 10270-3 X10CrNi18-8	AISI 302
5	SEAL	EPDM		
6	STEM	Bronze	EN 1982 CuSn5Zn5Pb2-C GS	ASTM B 505
7	CLOSING SYSTEM	Cast iron/epoxy	EN 1561 EN-GJL-250	ASTM A 48 35 B

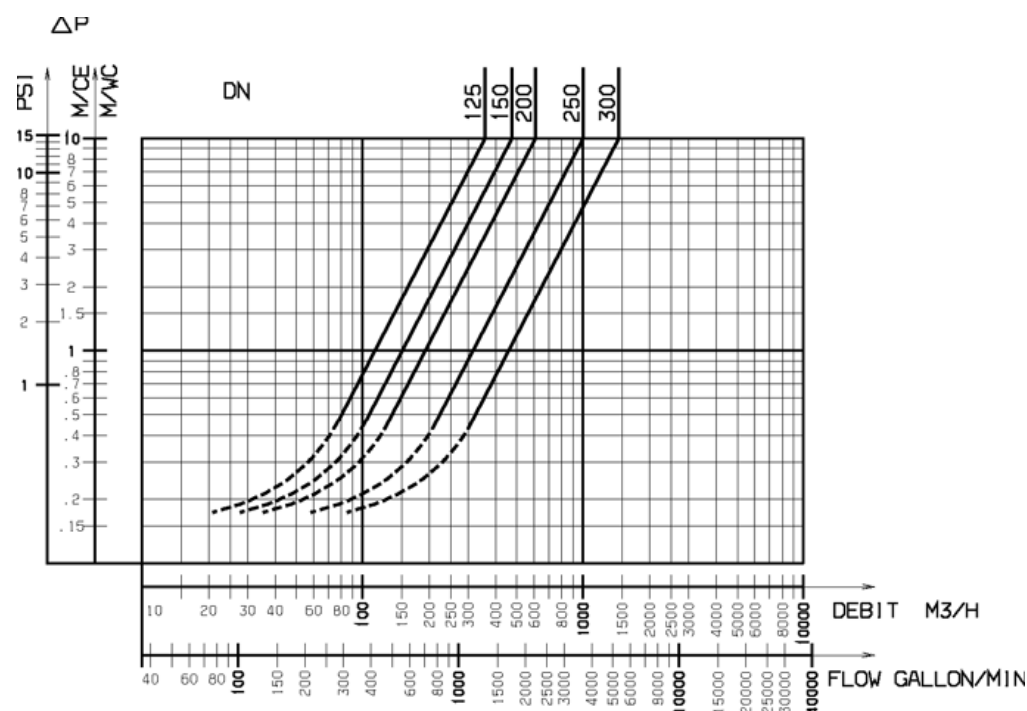


### Working principle

DN		Opening pressure in mm/CE				Kv	ζ
"	mm	↑	↓	↔	Without spring	m <sup>3</sup> /H	
5	125	500	240	370	130	357,00	3,00
6	150	510	210	360	150	476,00	3,50
8	200	550	210	380	170	607,00	6,80
10	250	590	210	400	190	1000,00	6,10
12	300	710	210	460	250	1452,00	6,00

#### Directions for use :

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



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