

DUCTILE IRON AXIAL DISC CHECK VALVE WITH 2 BOSSES FLANGED PN16 ACS

Ductile iron axial disc check valve with 2 threaded or plugged bosses for drinking water, heating and water distribution.
Ductile iron EN GJS-400-15 body coated with anti-corrosion epoxy painting, ductile iron disc and EPDM seat.
All positions thanks to the stainless steel spring.



Certificate

3.1



Size : DN50 to DN300
Connection : Between flanges PN10/16 RF
Min Temperature : -10°C
Max Temperature : +120°C
Max Pressure : 16 Bars
Specifications : Disc type
All positions
Stainless steel spring
Epoxy painting
With 2 bosses threaded or not

Materials : Ductile iron EN GJS-400-15

DUCTILE IRON AXIAL DISC CHECK VALVE WITH 2 BOSSES FLANGED PN16 ACS

SPECIFICATIONS :

- All positions thanks to the stainless-steel spring
- Respect the flow direction indicated by an arrow on the body
- Flanges R.F. PN10/16 up to DN150, PN16 from DN200 to DN300
- Weak head loss thanks to the cylindrical internal design
- Anti-corrosion epoxy internal and external painting blue color RAL 5017, 100 µ thickness
- Disc designed for a better hydro dynamism
- Silent solution
- Minimum back pressure for tightness: 0.3 bars
- 2 types: one with undrilled bosses and another one with 2 threaded bosses for bypass or to check the thickness

USE :

- Water distribution
- Min Temperature Ts : - 10°C
- Max Temperature Ts : + 120°C
- Max Pressure Ps : 16 bars

RANGE :

- Axial disc check valve with flanges R.F. PN10/16 from DN50 to DN 150, PN16 from DN 200 to 300:



- With 2 bosses (undrilled)

DN	50	65	80	100	125	150	200	250	300
Ref.	366052	366067	366082	366102	366127	366152	366202	366252	366302



- with 2 threaded bosses for bypass or to check the thickness DN1/2" (excepted for DN50 : DN1/4")

DN	50	65	80	100	125	150	200	250	300
Ref.	366053	366068	366083	366103	366128	366153	366203	366253	366303

DUCTILE IRON AXIAL DISC CHECK VALVE WITH 2 BOSSES FLANGED PN16 ACS
FLOW COEFFICIENT Kvs (in m³/h) :

DN	50	65	80	100	125	150	200	250	300
Kvs (m ³ /h)	63	98	225	325	480	617	1389	2684	3269

HEAD LOSS CALCULATIONS:

$$\Delta p = (Q / K_v)^2 \times SG$$

Q : flow in m³/h

Δp : Head loss in bar

SG : Specific gravity (= 1 for water)

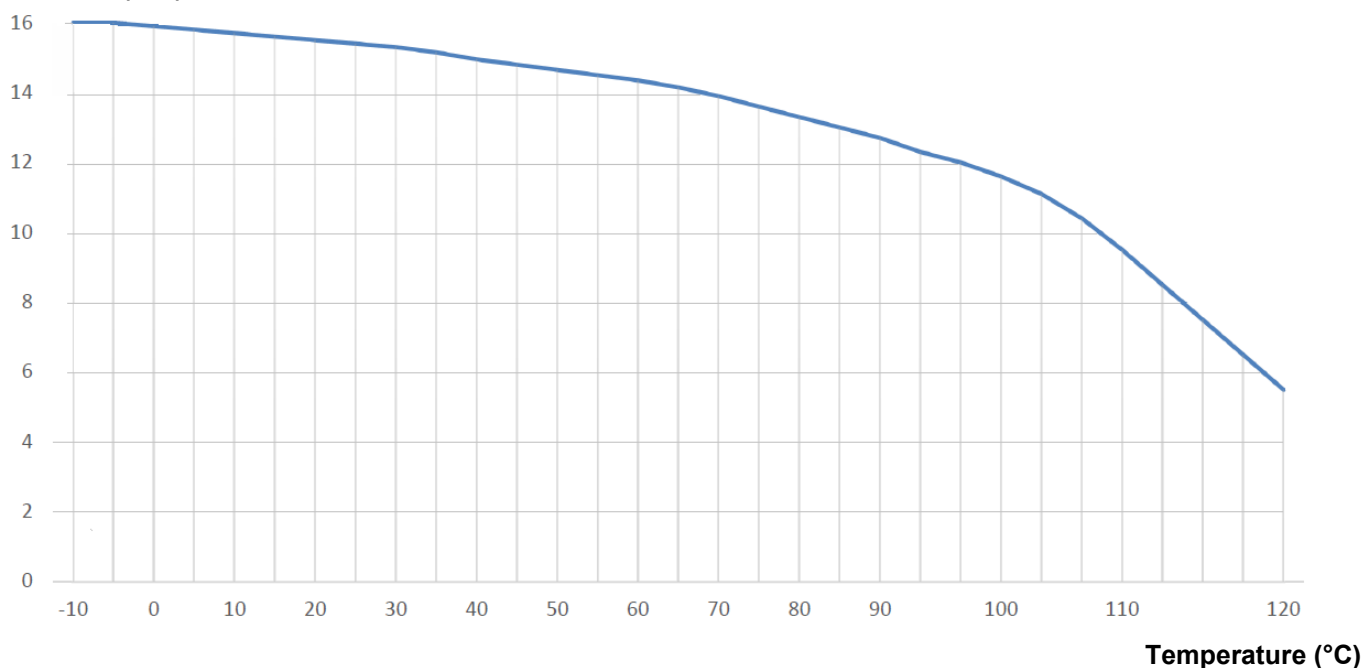
Kv : Volume of water in m³/h, that will flow through a given restriction or valve opening with a pressure drop of 1 bar at 20°C)

OPENING PRESSURE (mbar) for horizontal position :

DN	50	65	80	100	125	150	200	250	300
Opening pressure (mbar)	22	27	30	38	41	45	49	36	47

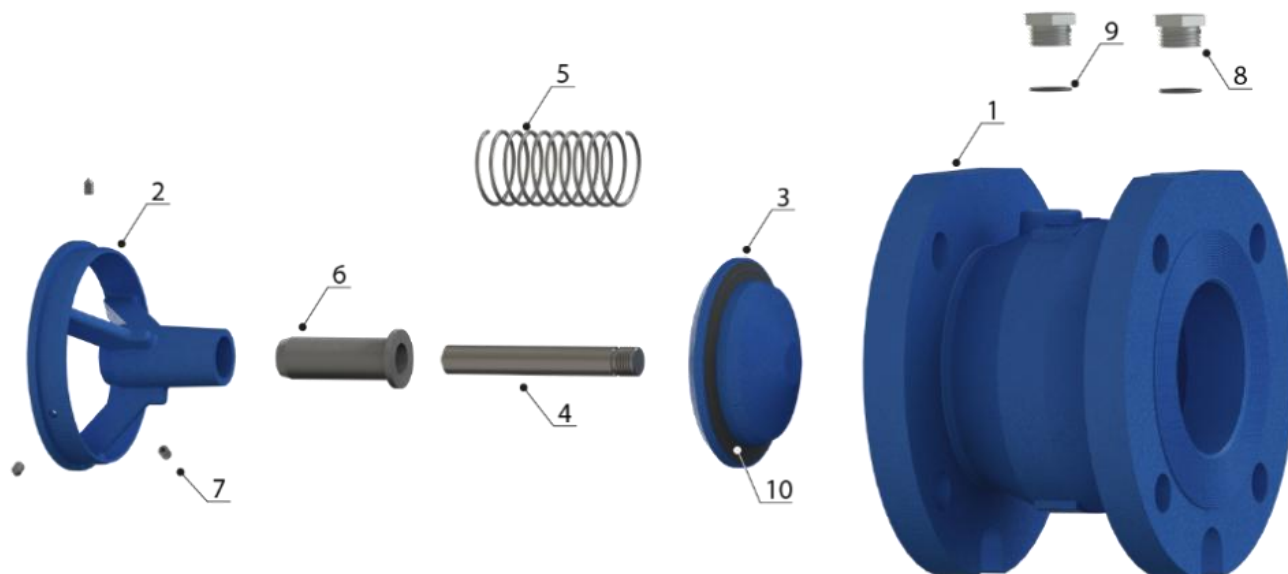
PRESSURE / TEMPERATURE GRAPH :

Pressure (Bar)



DUCTILE IRON AXIAL DISC CHECK VALVE WITH 2 BOSSES FLANGED PN16 ACS

MATERIALS DN 50 - 100 :

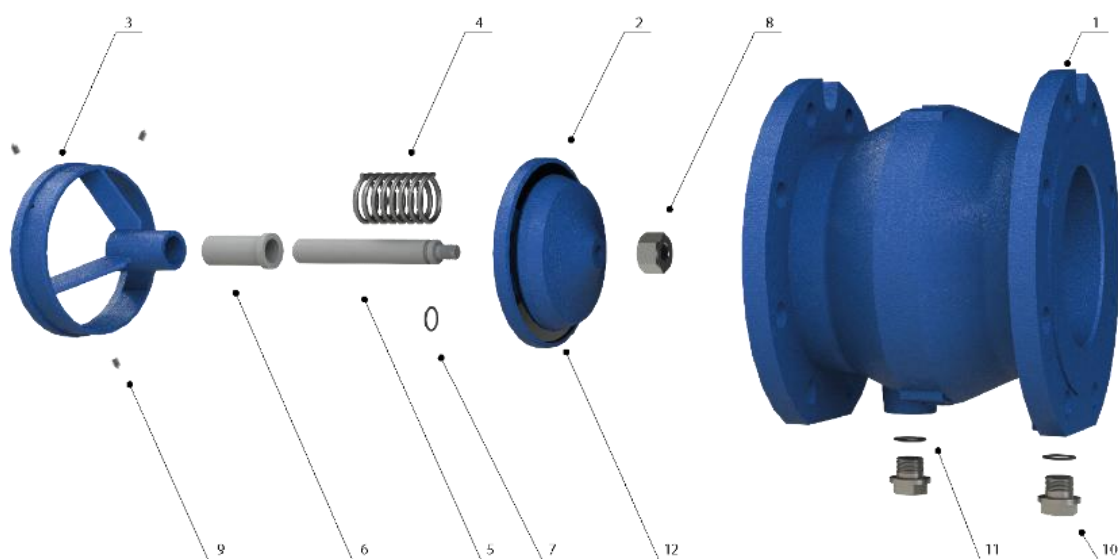


Item	Designation	Materials
1	Body	Ductile iron EN-GJS-400-15
2	Guide	
3	Disc	
4	Shaft	AISI 316L
5	Spring	AISI 316
6	Bushing	AISI 316L
7	Stud bolt	Stainless steel A2
8*	Plug	Galvanized steel
9*	O-ring	EPDM
10	Seat	

****only for types 366053, 366068, 366083 and 366103***

DUCTILE IRON AXIAL DISC CHECK VALVE WITH 2 BOSSES FLANGED PN16 ACS

MATERIALS DN 125 – 200 :



Item	Designation	Materials
1	Body	Ductile iron EN-GJS-400-15
2	Disc	
3	Guide	
4	Spring	AISI 316L
5	Shaft	AISI 316
6	Bushing	
7	O-ring	EPDM
8	Nut	AISI 316
9	Screw	
10*	Plug	Galvanized steel
11*	Plug O-ring*	EPDM
12	Seat	

***only for types 366128, 366153 and 366203**

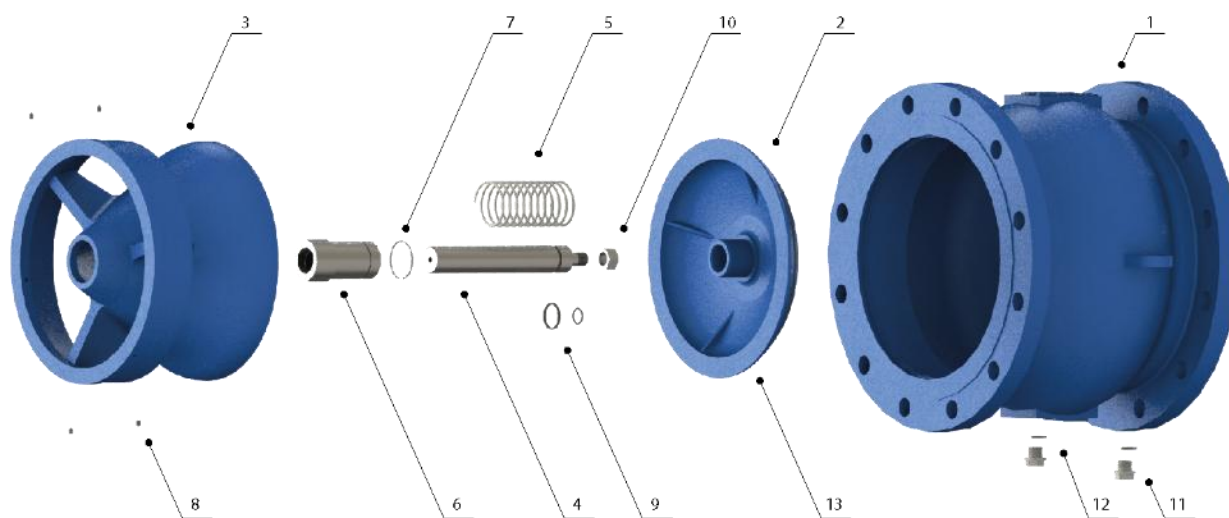
Sferaco 90 rue du Ruisseau 38297 St Quentin Fallavier Tel: + 33 (0) 474.94.15.90 Fax: + 33 (0) 474.95.62.08 Internet: www.sferaco.com E-mail: info@sferaco.fr

Date : 07/26

Rev.0

DUCTILE IRON AXIAL DISC CHECK VALVE WITH 2 BOSSES FLANGED PN16 ACS

MATERIALS DN 250 - 300 :



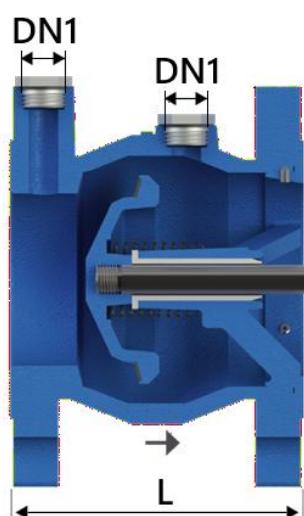
Item	Designation	Materials
1	Body	Ductile iron EN-GJS-400-15
2	Disc	
3	Guide	
4	Spring	AISI 316L
5	Shaft	AISI 316
6	Bushing	
7	Circlip	AISI 316L
8	Screw	Stainless steel A4
9	O-ring	EPDM
10	Nut	Stainless steel A4
11*	Plug	Galvanized steel
12*	Plug O-ring*	EPDM
13	Seat	

***only for types 366253 and 366303**

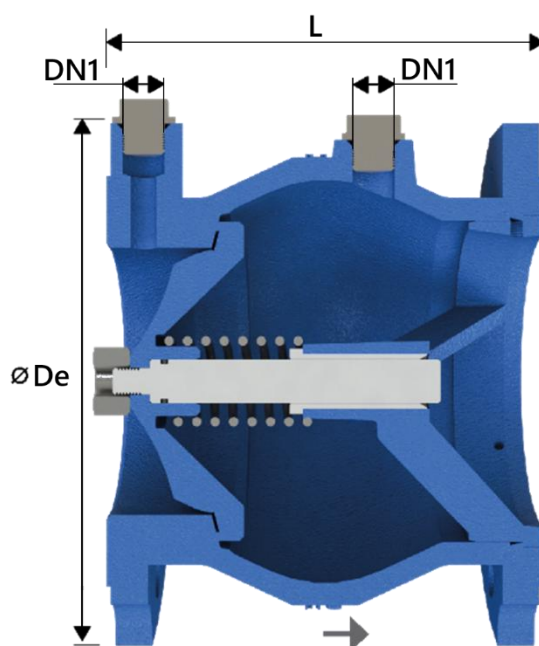
DUCTILE IRON AXIAL DISC CHECK VALVE WITH 2 BOSSES FLANGED PN16 ACS

SIZE REF.366 DN 50 – 200 (in mm) :

DN50 – 100



DN125 – 200

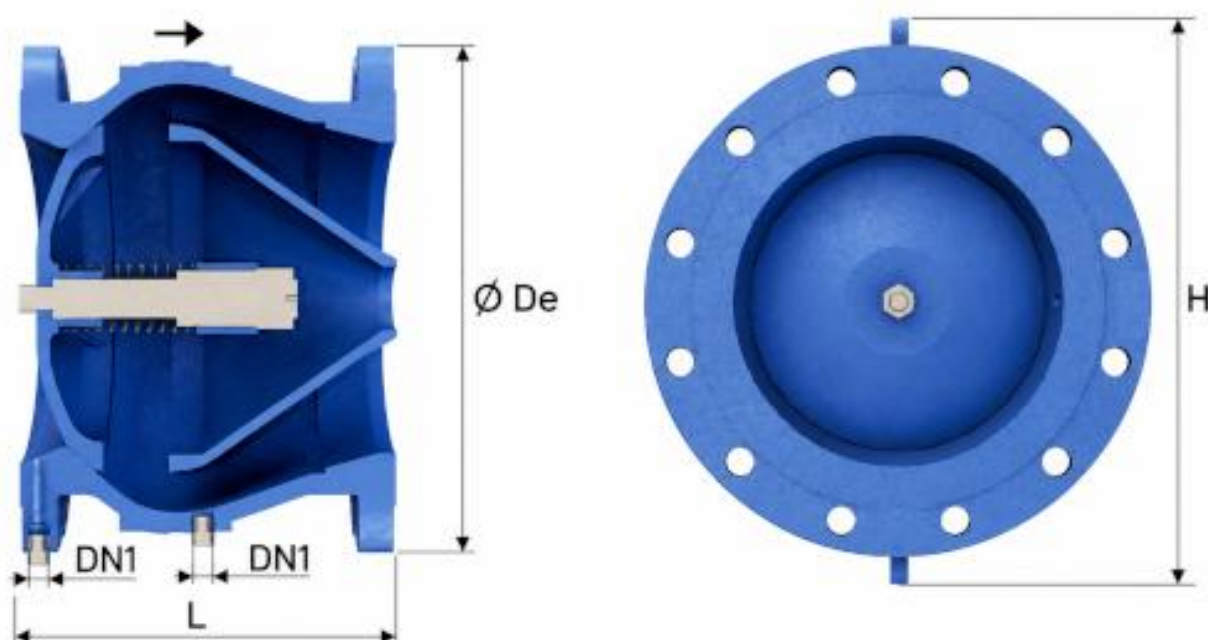


PN	PN10/16						PN16
DN	50	65	80	100	125	150	200
L	100	120	140	170	200	230	288
Ø De	165	185	200	220	250	285	340
DN1*	1/4"	1/2"					
Weight (Kg)	6	8	12	15	20	30	50

*only for types with threaded bosses (Refs 366053, 366068, 366083, 366103, 366128, 366153 and 366203)

DUCTILE IRON AXIAL DISC CHECK VALVE WITH 2 BOSSES FLANGED PN16 ACS

SIZE REF. 366 DN 250-300 (in mm) :

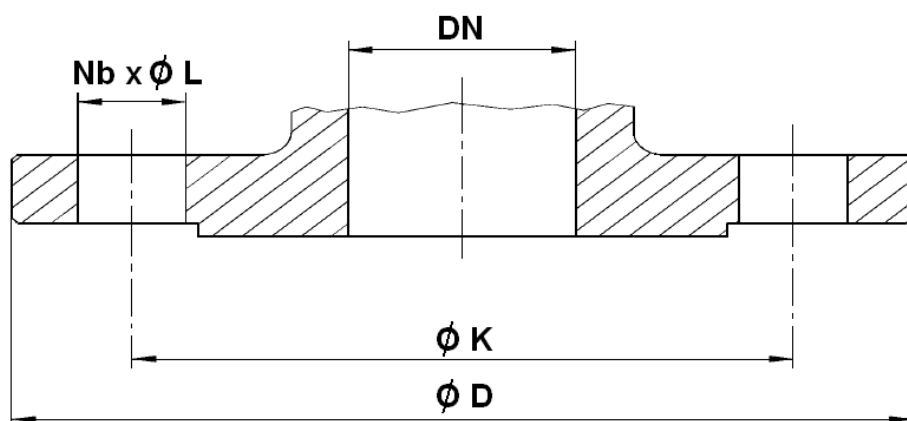


PN	PN16	
DN	250	300
L	297	338
Ø De	405	458
DN1*	1/2"	
H	440	510
Weight (in Kg)	86	125

*only for types with threaded bosses (Refs 366253 and 366303)

DUCTILE IRON AXIAL DISC CHECK VALVE WITH 2 BOSSES FLANGED PN16 ACS

FLANGES SIZE (in mm) :



PN	PN10/16						PN16		
DN	50	65	80	100	125	150	200	250	300
Ø D	165	185	200	220	250	285	340	405	458
Ø K	125	145	160	180	210	240	295	355	410
Nb x Ø L	4 x 19	8 x 19	8 x 19	8 x 19	8 x 19	8 x 23	12 x 23	12 x 27	12 x 26

STANDARDS :

- Manufacturer certified ISO 9001: 2015 and ISO 14001 : 2015
- DIRECTIVE 2014/68/EU : Products excluded from directive (Article 1, § 2b)
- Certificate 3.1 on request
- Design according to EN 16767
- French water agreement **A.C.S. N° 25 ACC LY 493**
- Pressure Tests according to ISO 5208, Rate A
- Flanges according to EN 1092-2 PN10-PN16
- Plugs threaded male and female BSPP parallel thread according to ISO 228-1

ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.
The customer must check the right choice of the products with the real service conditions.