

FLANGED BALL CHECK VALVE PN10



Certificate 3.1

Size : DN 40 to DN 300
Ends : PN10/16 RF Flanges
Min Temperature : - 10°C
Max Temperature : + 80°C
Max Pressure : 10 Bars
Specifications : Ball type
Vertical or horizontal installation
Removable bonnet

Materials : Ductile iron EN GJS-400-15

FLANGED BALL CHECK VALVE PN10

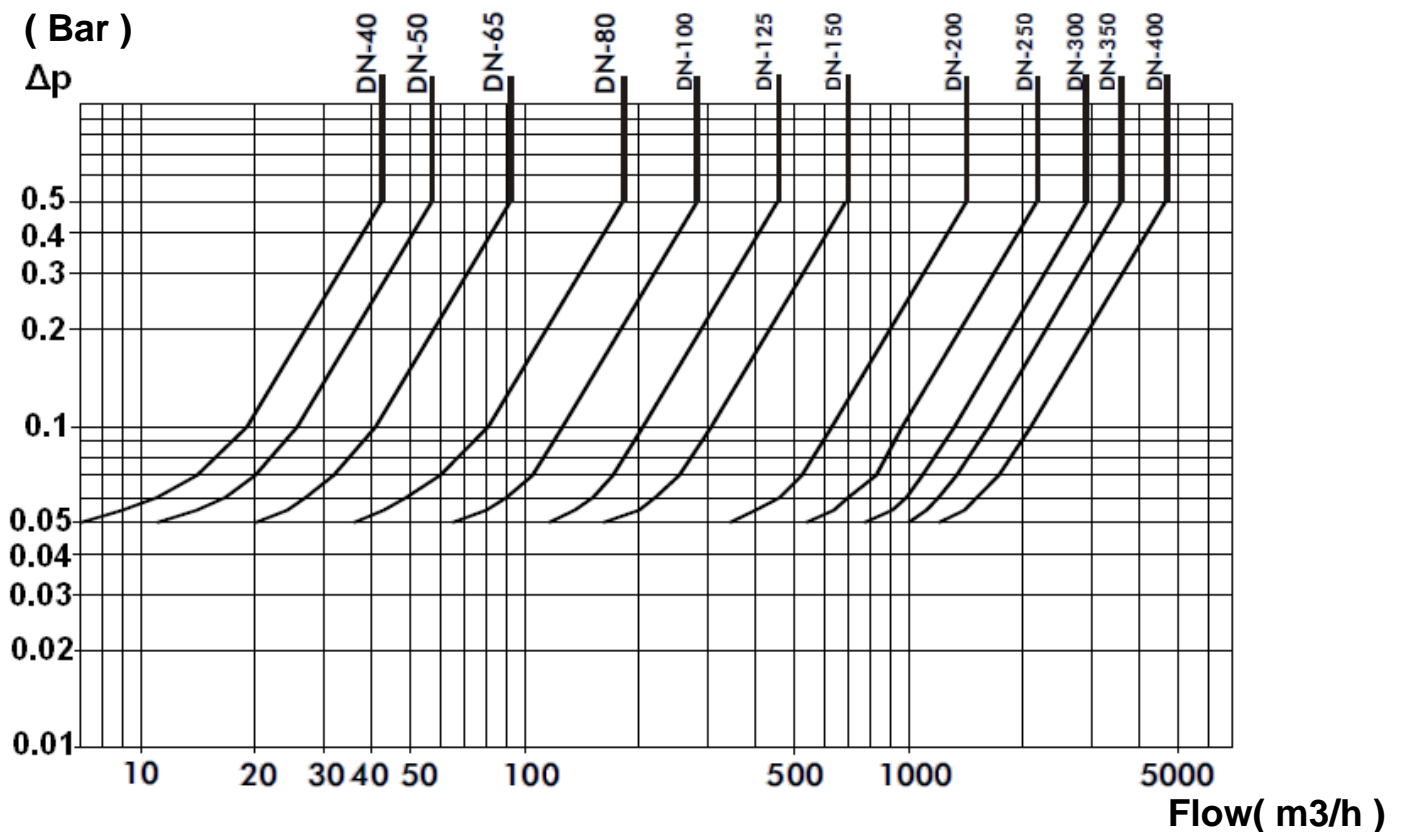
SPECIFICATIONS :

- Ball type
- Vertical with ascendant fluid or horizontal (respect the flow direction indicated by the arrow)
- PN10/16 RF Flanges from DN40 to 150, PN10 over
- Easy maintenance thanks to the bolted bonnet
- Anti-corrosion epoxy painting RAL 5005 blue color, 250 microns thickness
- Anti-corrosion stainless steel bolting

USE :

- Water distribution and watering
- Min Temperature Ts : - 10°C
- Max Temperature Ts :+ 80°C
- Max Pressure Ps : 10 bars

HEAD LOSS GRAPH :



FLOW COEFFICIENT Kvs (in m3/h) :

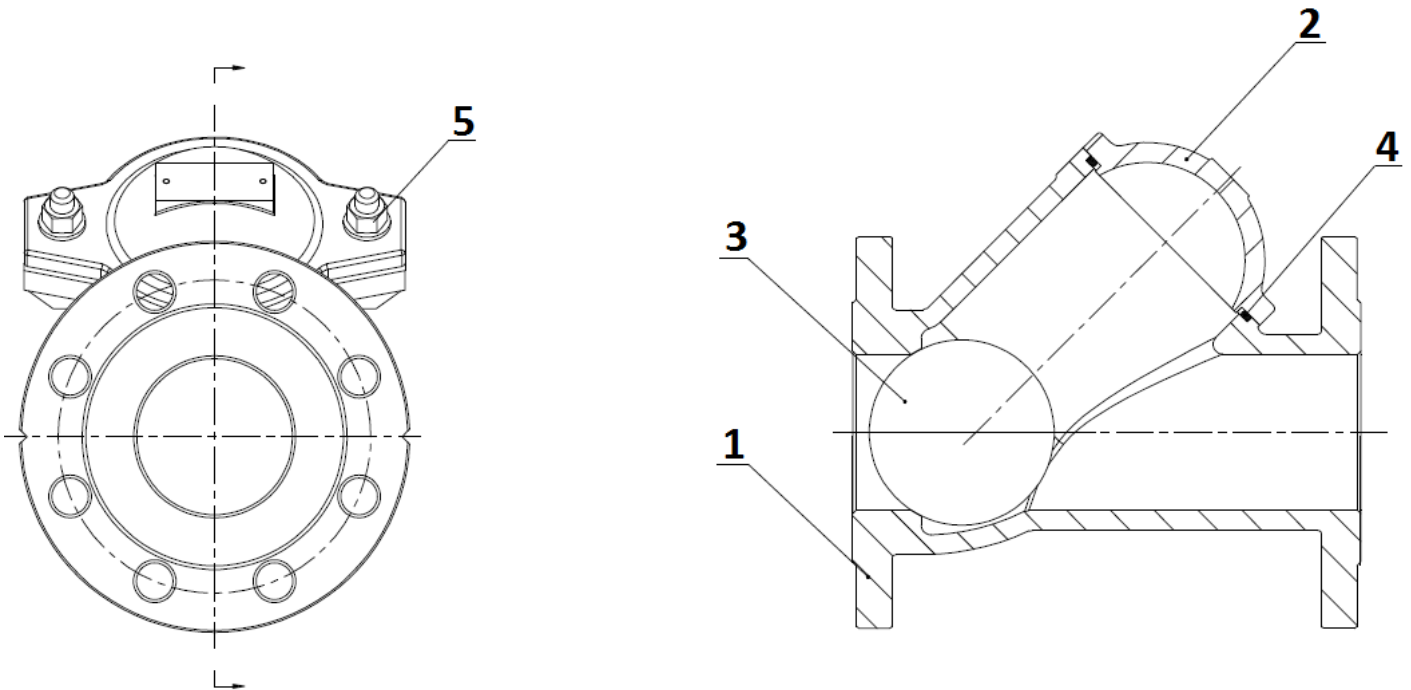
DN	40	50	65	80	100	125	150	200	250	300
Kvs (m ³ /h)	60	81	130	255	400	645	970	2000	3050	4150

FLANGED BALL CHECK VALVE PN10

RANGE :

- PN10/16 RF Flanges from DN40 to 150 and PN10 over Ref. 332 from DN40 to 300

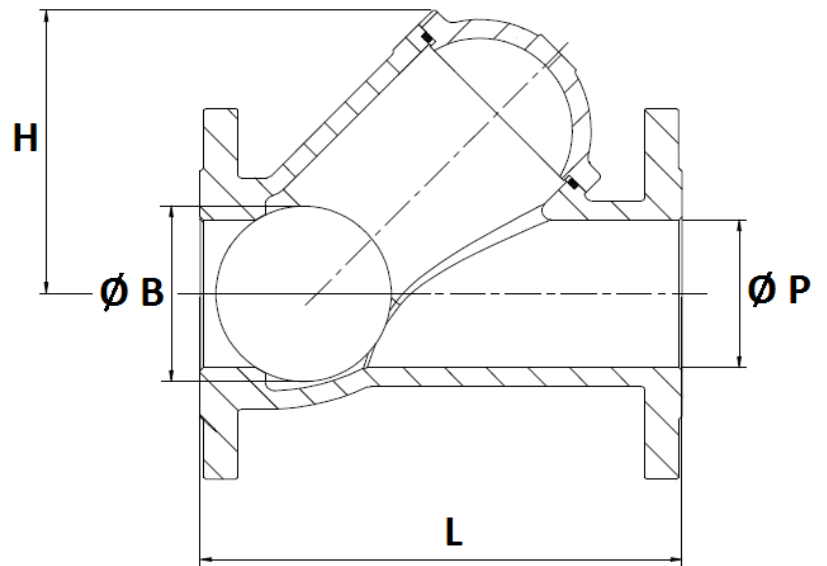
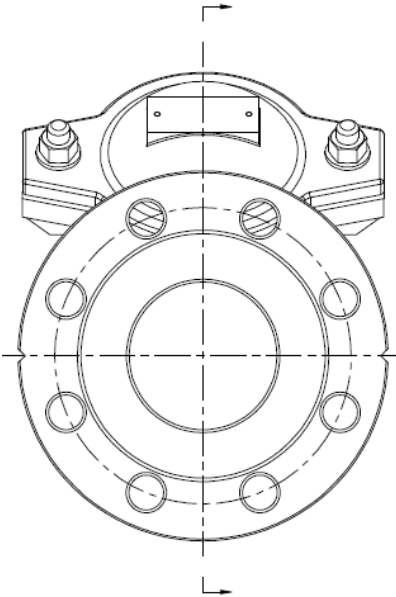
MATERIALS :



Item	Designation	Materials
1	Body	Ductile iron EN – GJS – 400-15
2	Bonnet	Ductile iron EN – GJS – 400-15
3	Ball DN 40	NBR
3	Ball DN 50 – DN80	Aluminium coated NBR
3	Ball DN 100 – 300	Carbon steel A216WCB coated NBR
4	Bonnet gasket	NBR
5	Bolting	AISI 304

FLANGED BALL CHECK VALVE PN10

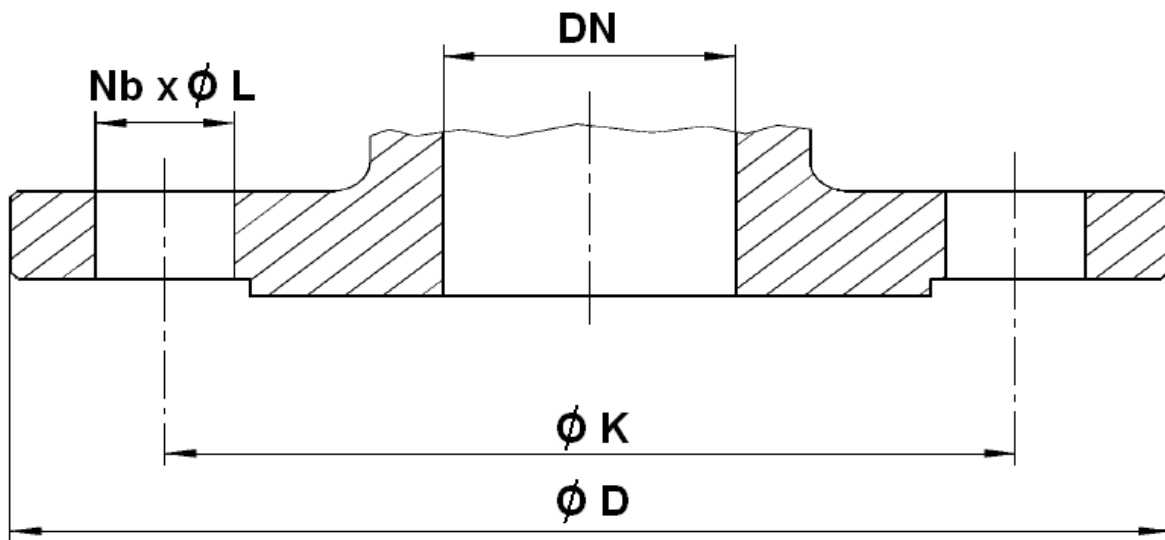
SIZE (in mm) :



Ref.	DN	40	50	65	80	100	125	150	200	250	300
332	L	180	200	240	260	300	350	400	500	600	700
	H	103	111	141.5	151	194.5	239	249	338.5	413	472
	Ø B	50	60	95	95	120	175	175	240	300	360
	Ø P	40	51	80	80	100	144	150	200	250	300
	Weight (in Kg)	6.09	9.32	17.1	20.24	24.9	41.7	55.11	103.6	135	191.8

FLANGED BALL CHECK VALVE PN10

FLANGES SIZE (in mm) :



DN	40	50	65	80	100	125	150	200	250	300
Ø D	150	165	185	200	226	253	285	342	403	450
Ø K	110	125	145	160	180	210	240	295	350	400
Nb x Ø L	4 x 19	4 x 19	4 x 1	8 x 19	8 x 19	8 x 19	8 x 23	8 x 23	12 x 23	12 x 23

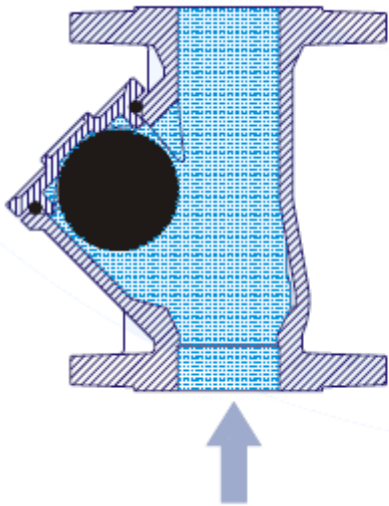
FLANGED BALL CHECK VALVE PN10

STANDARDS :

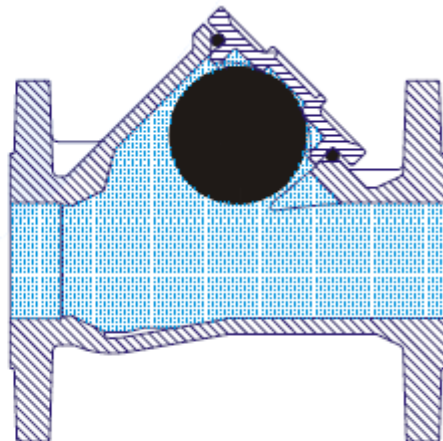
- Fabrication according to ISO 9001 :2008
- DIRECTIVE 2014/68/EU : Products excluded from directive (Article 1, § 2b)
- Certificate 3.1 on request
- PN10 Flanges according to EN 1092-2
- Length according to EN 558 series 48 (DIN 3202 F6)
- **Body** test according to ISO 5208, Rate A

INSTALLATION POSITIONS :

Vertical position (Ascendant fluid)



Horizontal position





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INSTALLATION INSTRUCTIONS

GENERAL GUIDELINES :

- Ensure that the check valves to be used are appropriate for the conditions of the installation (type of fluid, pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
- Ensure that the valves to be installed are of correct strength to be able to support the capacity of their usage.

INSTALLATION INSTRUCTIONS :

- **Before installing the check valves, clean and remove any objects from the pipes** (in particular bits of sealing and metal) which could obstruct and block the valves.
- **Ensure that both connecting pipes either side of the check valve (upstream and downstream) are aligned (if they're not, the valves may not work correctly).**
- **Make sure that the two sections of the pipe (upstream and downstream) match, the check valve unit will not absorb any gaps. Any distortions in the pipes may affect the tightness of the connection, the working of the check valve and can even cause a rupture.** To be sure, place the kit in position to ensure the assembling will work.
- **If sections of piping do not have their final support in place, they should be temporarily fixed. This is to avoid unnecessary strain on the check valve.**
- Respect the flow direction indicated by the arrow
- Tighten the bolts in cross.
- If there is a direction changing or if there's another material, it's better to take away the check valve so that it is outside the turbulence area (**between 3 and 5 times the ND before and after**).
- After a pump please refer to **FD CEN/TR 13932** to install the check valve :
 - If it is essential to keep priming the pump, a non-return check valve can be fitted to the suction pipe at a distance **L1 (straight length suction) > 10xD1 (diameter suction)**
The check valve is designed to meet the maximum flow rate in service
 - In other cases, the non-return check valve is mounted on the discharge pipe at a distance of **L2 (straight length at discharge) > 3xD2 (diameter at discharge)**