

## Ball Check Din

Ball Check SBM-PTV is the best solution for clean and dirty water, easy to install and easy maintenance. Sliding ball type has a rubber ball which can work in most severe condition. The valve design features 100% free flow as the ball does not appear in the valve flow path when in open position. The straight bore prevents deposits in the valve. Consequently the SBM-PTV ball check valves feature a very low pressure loss giving the benefits of optimum use of pump capacity.

The bore is full without any block so the flow rate is much with little resisting force and little pressure loss and water-head loss is 50% of swing check valves's. It can be installed vertically or horizontally and widely used in cold water, hot water, Industrial water and sewage's pipeline and it is more for sewage submersible pump

### Features:

- A) Noiseless
- B) The rubber ball disc is totally encapsulated in EPDM rubber for superior sealing and corrosion resistance.
- C) The rubber ball disc rises above the flow profile reducing possible wear and damage
- D) Simple design, top entry cover allows for access for cleaning, replacement and maintenance easy.
- E) Much shorter stroke to minimize water hammer and water slamming.
- F) Epoxy coating

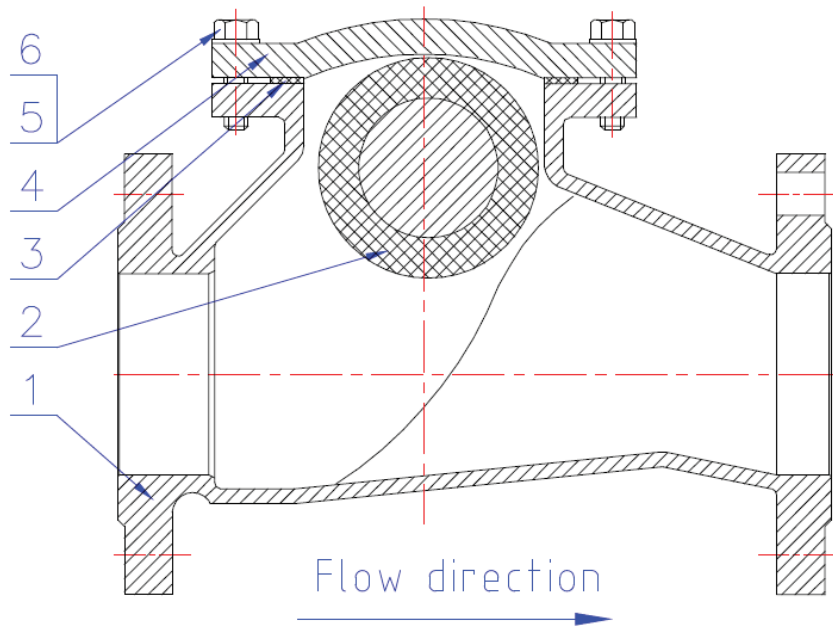


### Performance Standard

1. Design & Manufacture standard as to: BS EN 12516.3-2002
2. Face to Face dimension standard as to: EN 558
3. Flange dimension conforms as to: EN 1092-2
4. Testing And Inspection as to: ISO 5208
5. Pressure-temperature conforms as to: ASME B16.34
6. Available in PN25 upon request

### Technical Specification

1. Size range : DN50 ~ DN300
2. Pressure ratings: PN10 / PN16
3. Working temperature: -29°C ~ +120°C
4. Suitable Medium: Cold water, hot water, Industrial water and sewage.
5. Body Material: Cast Iron GG25  
Ductile Iron GGG40
6. Ball Material: EPDM
7. Seat: SS304



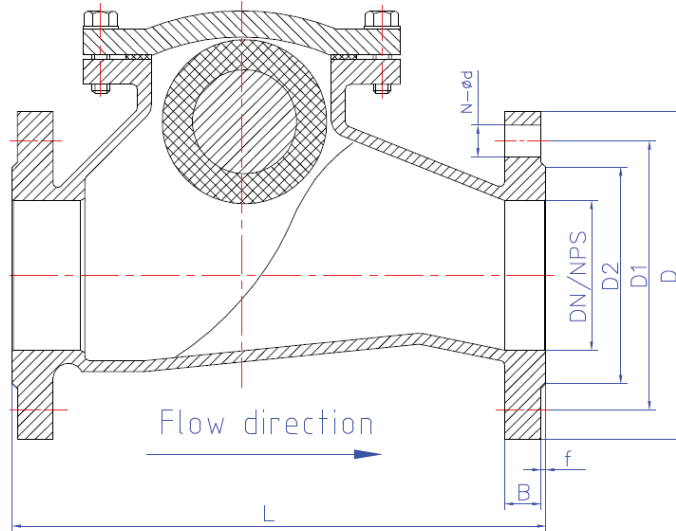
### Part List:

## Ball Check Valve

No.	Part Name	Material	Standard
1.	Body	Cast Iron GG25 Ductile Iron GGG40	DIN EN 1561-1997 DIN 1693-1 : 1973-10
2.	Ball type disc	EPDM	BNS-D00040
3.	Gasket	PTFE	MFR-STD
4.	Cover	Cast Iron GG25 Ductile Iron GGG40	DIN EN 1561-1997 DIN 1693-1 : 1973-10
5.	Bolt	B7 (Galvanized )	ASTM A193
6.	Nut	2H (Galvanized )	ASTM A194

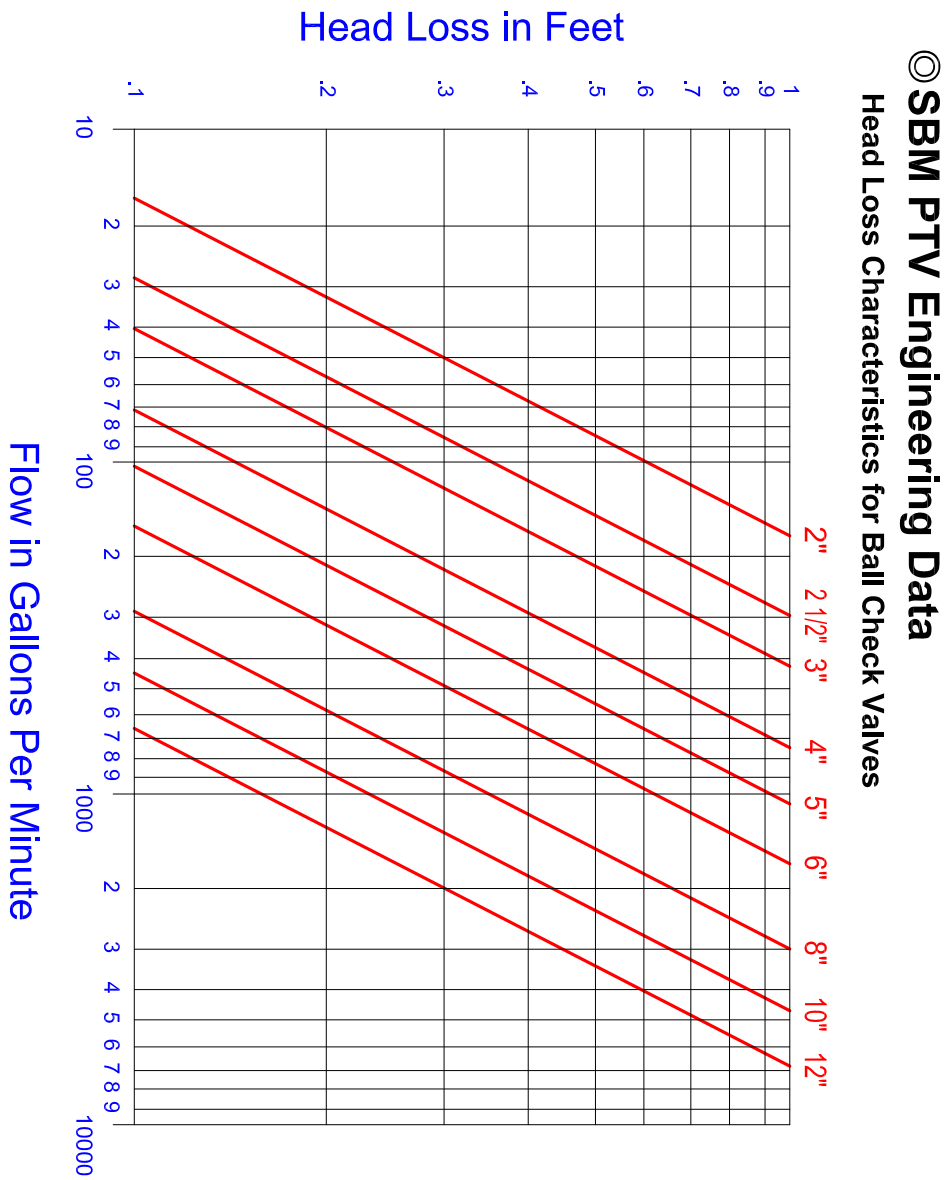
## Main Dimensions:

Ball Check Valve PN10/PN16



DN	NPS	L	D	D1	D2	B	N-Φ	F	Weight (Kg)
50	2"	203	Φ165	Φ125	Φ102	20	4-Φ18	3	6.5
65	2 1/2"	216	Φ185	Φ145	Φ122	20	8-Φ18	3	9
80	3"	243	Φ200	Φ160	Φ138	20	8-Φ18	3	10
100	4"	295	Φ220	Φ180	Φ158	22	8-Φ18	3	15
125	5"	333	Φ250	Φ210	Φ188	22	8-Φ18	3	23.5
150	6"	398	Φ285	Φ240	Φ212	24	8-Φ22	3	30.5
200	8"	497	Φ340	Φ295	Φ268	26	12-Φ22	3	57
250	10"	500	Φ405	Φ355	Φ320	26	12-Φ26	3	71
300	12"	560	Φ460	Φ410	Φ378	28	12-Φ26	4	135

## Ball Check Flow (Clean Screen)



## ORDERING CODE:

**Example: OMEGA CS-23-21-200**

Model: OMEGA AIR VENT CAST STEEL SERIES CLASS 150  
Standard A216 WCB Body Red Epoxy  
SS316 CF8M Interior and floating ball  
NBR Buna seat  
Flanged End RF  
Rating Class 150  
Size 2"

## Available Interior and Floating Ball Material Code:

SS304 CF8 Stainless Steel: 1  
SS316 CF8M Stainless Steel: 2  
SS316L CF3M Stainless Steel: 3

## Available Seat Material Code:

Viton: 1  
EPDM: 2  
NBR Buna: 3

## Available Rating Class Code:

Class 150: 1  
Class 300: 2  
Class 600: 3

## Available Connection Code:

Thread NPT: 1  
Flanged End: 2

## Available Size Code:

1": 100  
1 1/4": 125  
1 1/2": 150  
2": 200  
2 1/2": 250  
3": 300  
4": 400  
6": 600  
8": 800