

## SBC Ball Check Valves plastomer-lined



### DN15 – DN150 resp. 1/2" – 6"

SBC Ball Check Valves are ideally suited as reliable non-return flow control for liquid process media.

#### Modular Design

Valves are available as DIN- or ANSI-types, with PTFE solid balls and sight glass window plates made of Borosilicate acc. to DIN 7080 as per standard.

The sturdy design bodies are made of cast steel 1.0619 (WCB), coating RAL 5005 signal-blue or stainless steel casting 1.4408 (CF-8M), with resistant linings such as PFA or PFA-AS (anti-static).



#### SBC

Body 1.0619 (WCB)/PFA, PTFE solid ball

#### Main Features

- Heavy-duty, proven construction - maintenance-free
- Horizontal or vertical installation, flange connection acc. to DIN PN10/16 resp. ANSI 150lbs
- No need of additional flange gaskets due to wide and chambered flange sealing surface
- PTFE solid or hollow balls, guides made of PTFE-R
- Standard drip ledge indicating even minute flows
- Large observation opening

 Conformity according to European Pressure Equipment Directive 97/23/EC (PED)

#### Options

- Metal reinforced glass plates
- Quartz glasses
- FEP glass protection sheet

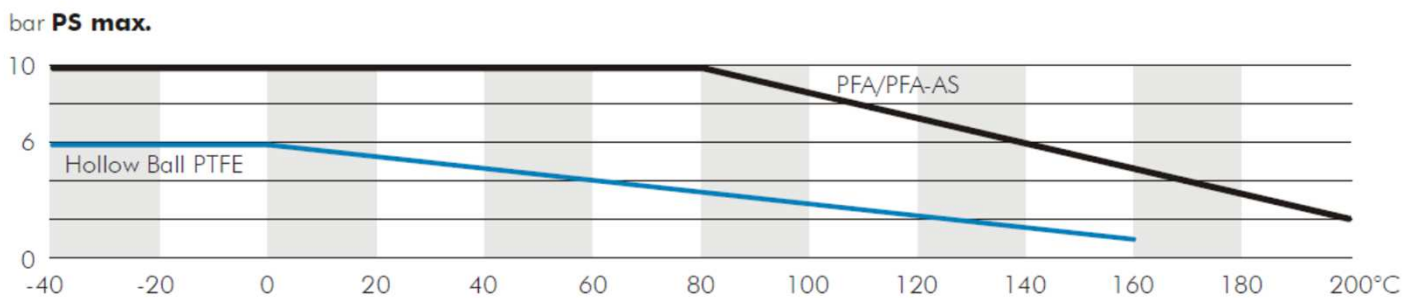
## Operating Conditions

- Temperature range from  $-40^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$ ) up to  $+200^{\circ}\text{C}$  ( $+392^{\circ}\text{F}$ ), depending on lining material
- Pressure range from 1mbar (0.01 psi) up to 10 bar (145 psi), depending on size/pressure/temperature

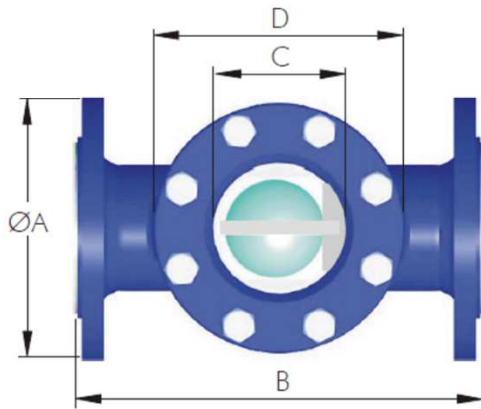
## Testing / Marking

- Pressure- and tightness testing acc. to EN 12266-1, leakage rate A, resp. API 598.
- Marking of valves on body and name plate acc. to EN 19.
- Material- resp. test certificates acc. to EN 10204-3.1/2.2/2.1

## Pressure-/Temperature Diagram



## Technical Data



### Standard Materials of Components

<b>Body</b>	Cast Steel 1.0619 (WCB) epoxy-coated
<b>Flange</b>	Cast Steel 1.0619 (WCB) epoxy-coated
<b>Lining</b>	PFA (opt. PFA-AS conductive)
<b>Solid Ball</b>	PTFE (opt. with hollow ball)
<b>Ball Guide</b>	PTFE-R (glassfibre-reinforced)
<b>Glass Plate</b>	Borosilicate 8488 acc. to DIN 7080
<b>Gasket</b>	C-4400 asbestos-free
<b>Bolts</b>	A2-70 1.4301

### Dimensions in mm (lbs = kg x 2.2)

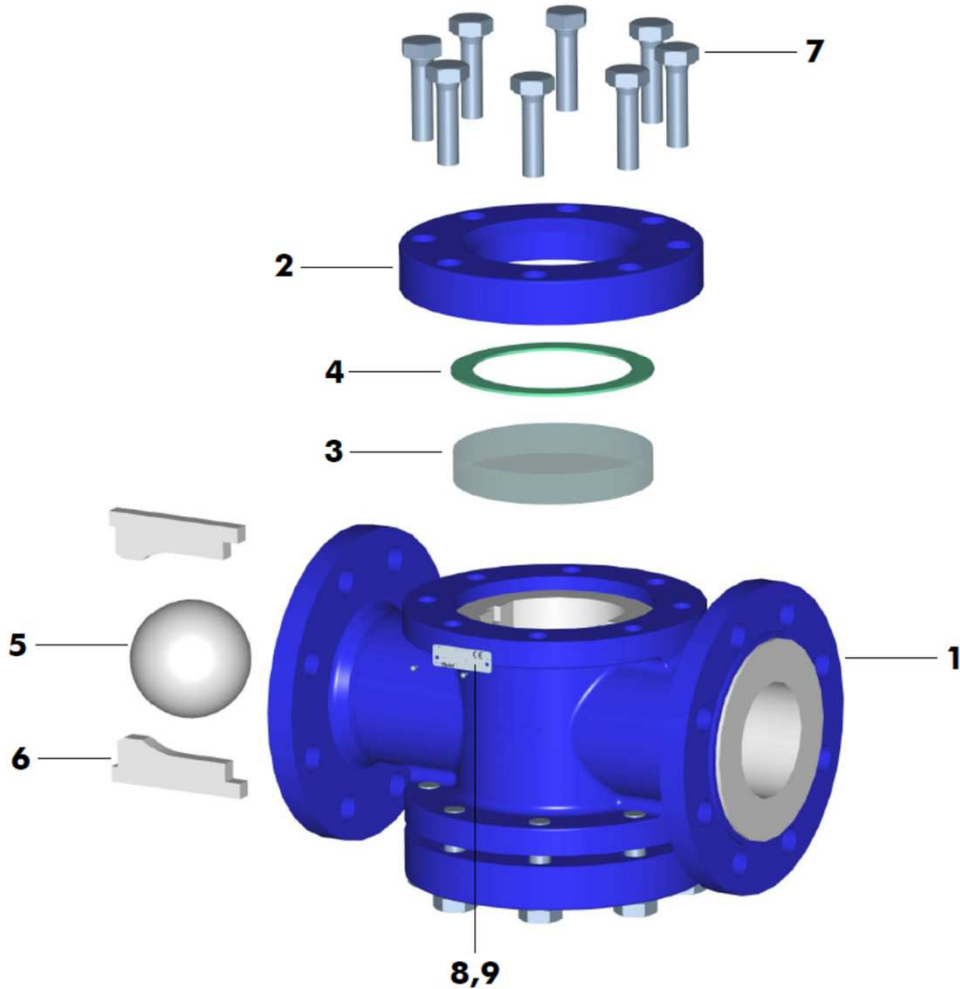
DN Size	15/1/2"	20/3/4"	25/1"	40/1/2"	50/2"	65/2/2"	80/3"	100/4"	150/6"
<b>ØA</b> DIN	95	105	115	150	165	185	200	220	285
<b>ØA</b> ANSI	95	105	108	127	152	178	190	229	279
<b>B</b> DIN	130	150	160	200	230	290	310	350	480
<b>B</b> ANSI	130	150	152	178	203	216	241	292	356
<b>ØC</b>	33	33	48	65	80	80	100	125	200
<b>D</b>	□70	□70	□85	□110	□120	Ø175	Ø190	Ø210	Ø290
<b>ØGlass</b>	45x10	45x10	63x10	80x12	100x15	100x15	125x20	150x25	225x30
<b>kg</b> DIN	3.7	4.3	5.3	9.0	13.3	19.6	27.4	47.7	66.0
<b>kg</b> ANSI	3.7	4.3	5.1	7.8	12.1	18.7	25.6	46.6	59.8

F/F acc. to DIN EN 558-1 Range 1 resp. ASME B16.10, other sizes and materials upon request  
 Body flanges: 2 1/2" and 3" ANSI with threaded holes 5/8" UNC, 6" ANSI with threaded holes 3/4" UNC

Parts List

Valve compl.

**Standard Version** (Picture showing DN 80 PN16, PFA-lined)



Item	Qty.	Description	Material	No.
1	1	Body PFA-lined, RAL 5005	WCB	1.0619
2	2	Flange, RAL 5005	WCB	1.0619
3	2	Glass Plate DIN 7080	Borosilicate	8488
4	2	Gasket	C-4400	
5	1	Solid Ball	PTFE	
6	2	Ball Guide	PTFE-R	
7	16	Hex. Head Screw	A2-70	1.4310
8	1	Name Plate 42 x 14 CE	A2	1.4301
9	2	Hammer Screw 2.49 x 4.76	A2	1.4310