

## BLOWDOWN EXPANSION VESSELS BV

### DESCRIPTION

The ADCA BV series blowdown vessels are used in modern boiler houses to cool hot waste water and steam boiler blowdown before discharging into a pit or drain.

If flash steam can not be recovered or discharged to the atmosphere, an optional condensing water spray system can be supplied. It is fitted into the top of the unit and can be controlled by, e.g., a thermostat.

### MAIN FEATURES

Prevents thermal pollution.

Overflow with siphon breaker.

Easy to install.

Reduces the flow of flash steam.

**OPTIONS:**

- Water injection cooling system.
- Stainless steel construction.
- Complete system including all the necessary equipment (stop and check valves, thermostats, exhaust head, etc).
- Manifold with several inlets for multi-boiler installations.
- Manhole for inspection.

**USE:** Boiler blowdown and hot waste water.

### AVAILABLE

**MODELS:** BV3, BV4, BV5, BV6 and BV7 – carbon steel.

**CONNECTIONS:** Flanged EN 1092-1 PN 16.  
Flanged ASME B16.5 Class 150.

**INSTALLATION:** Vertical installation.  
The inlet of the blowdown tank must always be higher than the boiler blowdown valves. Therefore, the connecting pipe should have provisions made at a low point to drain the boiler. See IMI – Installation and maintenance instructions.



#### CE MARKING – GROUP 2 (PED – European Directive)

Model	Category
BV3 and BV4	3 (CE marked)
BV5 to BV7	4 (CE marked)

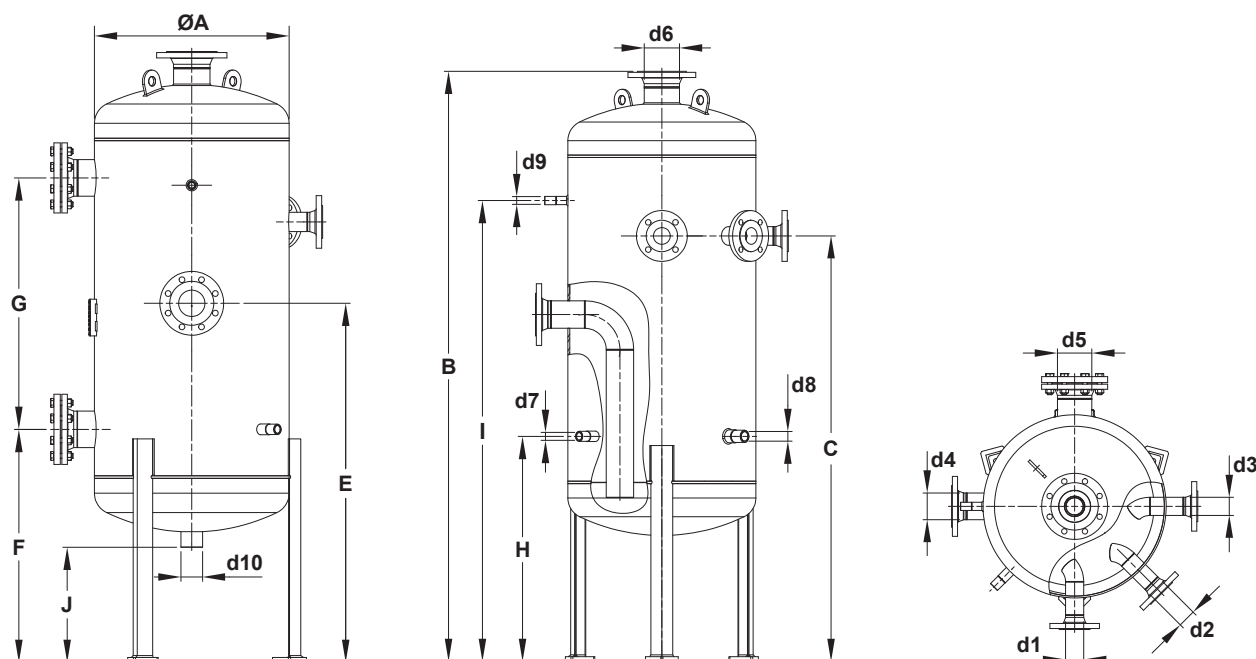
#### LIMITING CONDITIONS

PMA – Maximum allowable pressure	7 bar
TMA – Maximum allowable temperature	180 °C

Minimum operating temperature: 20 °C.

Design code: AD-Merkblatt.

Other conditions on request.



**DIMENSIONS (mm) \***

MODEL	ØA	B	C	E	F	G	H	I	J	STW. (L) **	VOLUME (L)	WEIGHT (kg)
<b>BV3</b>	508	1845	1345	1080	701	795	700	1430	357	114	249	176
<b>BV4</b>	610	1914	1380	1125	730	788	730	1495	361	175	373	210
<b>BV5</b>	762	1995	1415	1165	761	810	760	1540	357	284	598	322
<b>BV6</b>	914	2115	1470	1220	785	841	785	1565	304	473	978	447
<b>BV7</b>	1220	2254	1544	1294	819	885	839	1664	319	856	1812	865

\* Indicative values. Final dimensions, weight and connections to be defined according to the supplied drawing.

\*\* Standing water.

**CONNECTION SIZES**

MODEL	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10
<b>BV3</b>	DN 50	DN 50	DN 50	DN 80	DN 100	DN 100	3/4"	1"	1/2"	2"
<b>BV4</b>	DN 50	DN 50	DN 50	DN 80	DN 100	DN 100	3/4"	1"	1/2"	2"
<b>BV5</b>	DN 50	DN 50	DN 50	DN 100	DN 100	DN 150	3/4"	1"	1/2"	2"
<b>BV6</b>	DN 50	DN 50	DN 50	DN 100	DN 100	DN 150	3/4"	1"	1/2"	2"
<b>BV7</b>	DN 50	DN 50	DN 50	DN 150	DN 150	DN 200	3/4"	1"	1/2"	2"

**CONNECTIONS**

POS. N°	DESIGNATION	RATING
<b>d1</b>	Blowdown inlet	PN 16
<b>d2</b>	Blowdown inlet	PN 16
<b>d3</b>	Blowdown inlet	PN 16
<b>d4</b>	Blowdown outlet	PN 16
<b>d5</b>	Handhole	PN 16
<b>d6</b>	Vent	PN 16
<b>d7</b>	Cooling water inlet	PN 16
<b>d8</b>	Thermostat connection	PN 16
<b>d9</b>	Pressure gauge connection	PN 16
<b>d10</b>	Drain	PN 16