

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.

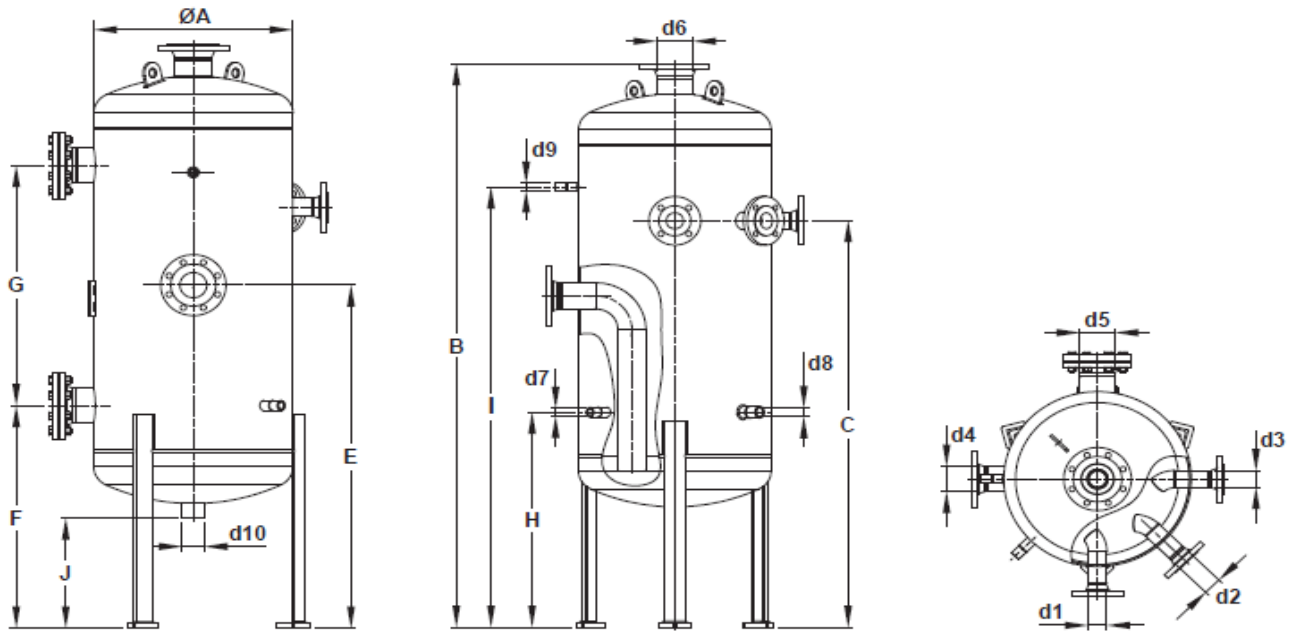
INSTALLATION: Vertical installation.
 The inlet of the blowdown tank must always be higher than the boiler blowdown valves. Therefore, the connecting pipe should have provisions made at a low point to drain the boiler. See IMI – Installation and maintenance instructions.



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)
BV3	508	1845	1345	1080	701	795	700	1430	357	114	249	176
BV4	610	1914	1380	1125	730	788	730	1495	361	175	373	210
BV5	762	1995	1415	1165	761	810	760	1540	357	284	598	322
BV6	914	2115	1470	1220	785	841	785	1565	304	473	978	447
BV7	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
BV3	DN 50	DN 50	DN 50	DN 80	DN 100	DN 100	3/4"	1"	1/2"	2"
BV4	DN 50	DN 50	DN 50	DN 80	DN 100	DN 100	3/4"	1"	1/2"	2"
BV5	DN 50	DN 50	DN 50	DN 100	DN 100	DN 150	3/4"	1"	1/2"	2"
BV6	DN 50	DN 50	DN 50	DN 100	DN 100	DN 150	3/4"	1"	1/2"	2"
BV7	DN 50	DN 50	DN 50	DN 150	DN 150	DN 200	3/4"	1"	1/2"	2"

CONNECTIONS

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