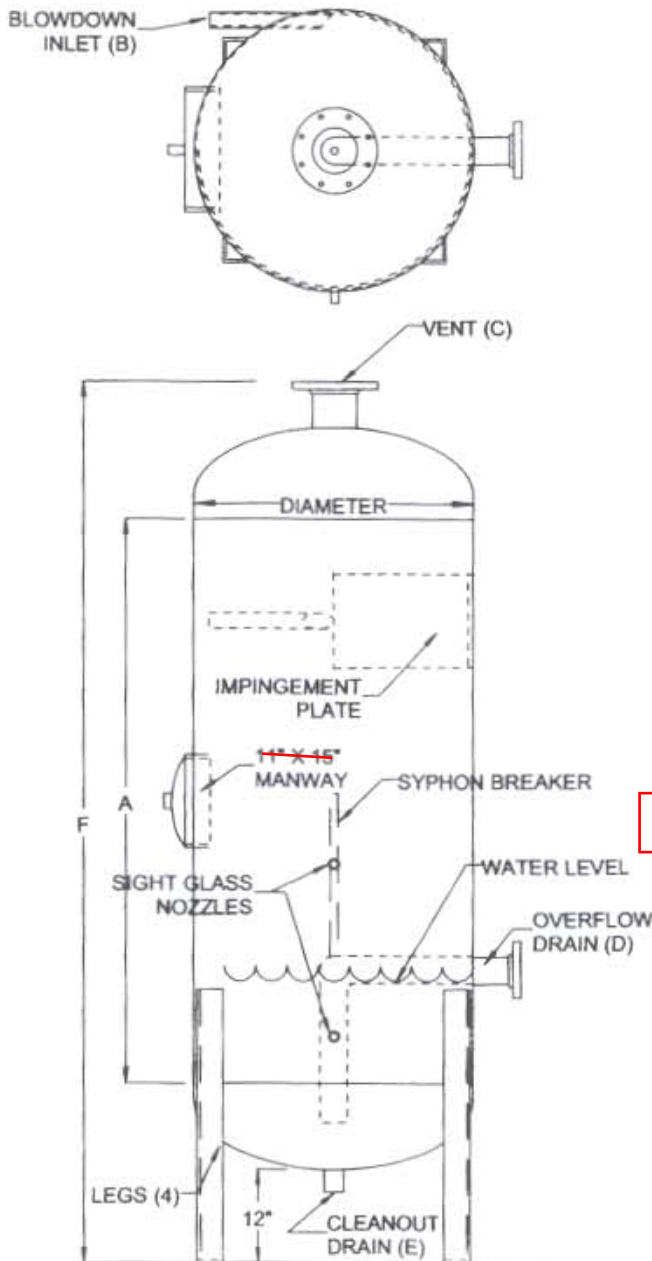


# Bottom Blowdown Tanks

These heavy steel tanks receive the bottom blowdown water from a boiler and cool it down using the flash steam principle, along with convection cooling over several hours for the retained hot water. The tank is designed to breakup the blowdown flow by impacting the high pressure hot water on the steel centrifugal impact plate. The water droplets give up heat as flash steam is formed. The flash steam is vented from the top of the tank to the atmosphere. Retained water displaces cooled water from the previous blowdown, and is retained in the tank until it cools to the statute limits.

### Data required for sizing calculations:

- Blowdown pipe size, type and equivalent length to tank.
- Boiler steam drum diameter & length.
- Boiler operating pressure.



Model Number	Shell Diameter	NPT A	150 # RF Flange B	NPT C	NPT D	NPT E	OAH F
BD3600	36"	30"	up to 2"	4"	3"	2"	70"
BD4200	42"	42"	up to 2"	5"	3"	2"	85"
BD4800	48"	48"	up to 2"	<del>8"</del>	4"	2"	94"
BD5400	54"	66"	up to 2"	6"	4"	2"	116"
BD6000	60"	72"	up to 2"	6"	4"	2"	125"
BD7200	72"	96"	up to 2"	10"	4"	2"	155"

- Shell length (Dimension A) and connections size dimensions can be changed to meet the application requirements for the specific boiler as determined by design rule calculations.
- Sizing of tank and connections should be determined using National Board design rules for blowoff tanks.  
*Contact the factory for assistance.*
- Construction: ASME Section VIII, Div. 1, 50 psi DWP, with National Board serial number.

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