

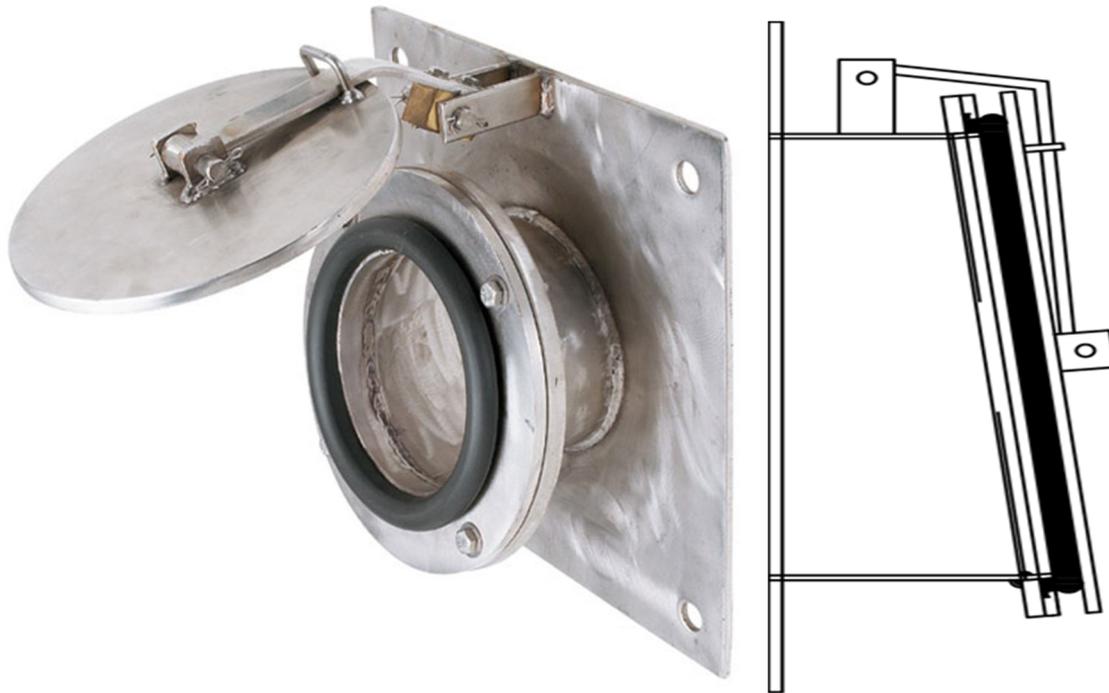
Zero Leakage Flap Valves

Series 102

BNW series 102 is a custom fabricated stainless steel resilient seated flap valve.

• Features:

- Heavy duty valves fabricated from stainless steel plate, angle, channel and flat bar in rigid welded construction
- Zero leakage replaceable resilient seat raised away from the body to eliminate entrapment of solids and debris
- Angle body design with added counterweights when required to provide added seating force for tight shutoff
- Double pivot hinge flap connection with flap mounted stop bar to allow and control self-aligning movement and centering of the flap on the valve seat



Fabrication

Our custom built flap valves are fabricated as round, square, or rectangular in stainless steel, type 304 or 316, in sizes from 100mm diameter to 3600mm x 2900mm plus. Resilient seats are neoprene or EPDM.

Mounting:

Series 102 Flap Valves are designed for flange mounting direct to concrete walls, embedded thimbles, pipe flanges, or curved manhole wall tiles. Valves are capable of withstanding face pressures to 20meters head and the cracking or opening pressure is determined by the angle of the valve body and the addition of counterweights. BNW flap valves can be directly mounted to

concrete, however for new installations of valves larger than 599mm, we recommend the inclusion of a [BNW Wall Thimble](#) to achieve the ideal surface for a zero leakage solution.

Applications:

Applications for our flap valves include isolation and prevention of backflow in chambers, tanks, manholes, control structures, and outfall and drain piping. Flap valves are also used as ground water relief valves in concrete tanks to protect tanks drained for maintenance or repair from floating or rupturing by permitting ground water flow back into the tank. Hydraulically latched flap valves are part of the flushing systems used to clean debris from the floor of drained CSO tanks and containment structures.