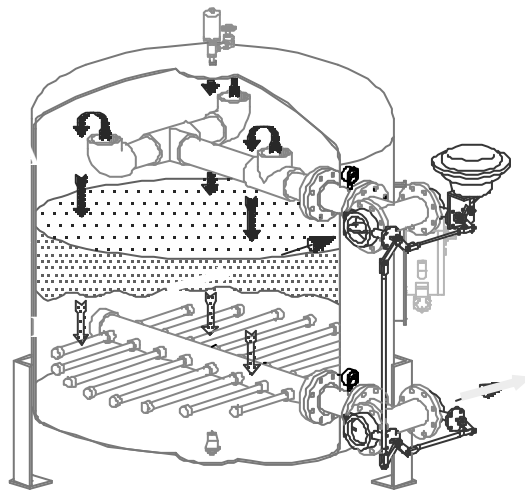


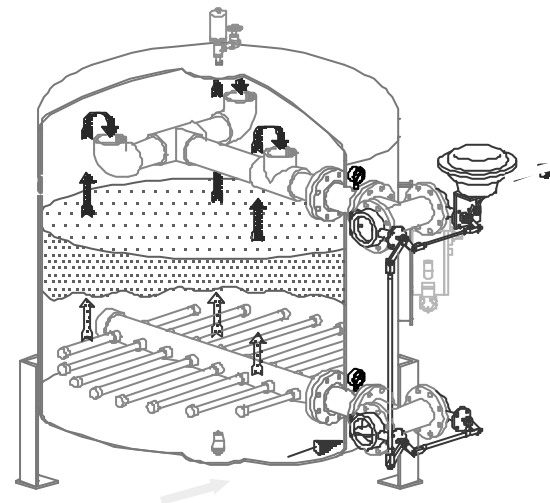
INDUSTRIAL FILTERS

FILTRATION CYCLE



Influent is directed through a series of valves into the overdrain of the filter, where it is evenly distributed over the filtration media. It is then forced down through the media bed where the suspended particulate is trapped in the voids formed between the media. The clean effluent then passes through the underdrain and is returned to the original source. As the voids in the media are filled, the filter will start to blind off. When the maximum differential pressure is reached, the filter will require a backwash.

BACKWASH CYCLE



The filter is backwashed by reversing the fluid flow through the filter. The backwash fluid is directed into the filter through the underdrain and up through the media. As the backwash fluid moves through the media it causes the bed to lift and separate. The tumbling action of the media causes a scouring effect which releases trapped particulate and suspends it in the backwash flow. The fluid then carries the particulate that is suspended up through the overdrain and out the waste.



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