



How Do the PFE & BFC Flow Control Valves Work?

The PFE Flow Control Valve is a carbon steel body with stainless steel notched V-ball that closes bubble tight.

The PFE flow control valve controls compressed air flow and air pressure as follows.

The air pressure transducer which is installed down stream of the PFE Flow control valve and receiver tank senses air pressure.

The client enters the plants desired operating air pressure on the PFE Deluxe Controller.

The pressure transducer senses air pressure. If air pressure changes , say it starts to decay by just a tenth of a pound an electronic signal is sent from the PFE Deluxe panel to the flow control valve telling the valve to open allowing more compressed air to the plant. This will hold the plant air pressure constant.

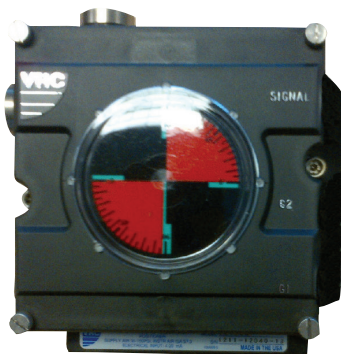
If air pressure starts to increase by just a tenth of a pound an electronic signal is sent from the PFE Deluxe panel to the flow control valve telling the valve to close reducing compressed air to the plant. This will hold the plant air pressure constant.

The PFE Flow Control valve receives the electronic signal from the PFE Deluxe panel and this electronic signal tells the compressed air control air line to the flow control valve to move the position of the V-ball in the valve. The pneumatic controller on the flow control valve and the electronic signal to the flow control valve communicate to confirm the V-ball valve position has moved as directed.

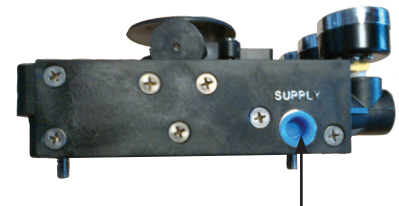
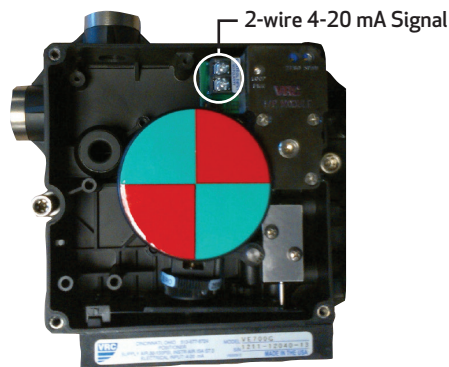
With the BFC pneumatic controller the above is done via compressed air pressure to the BFC regulator which sends a pneumatic signal to the BFC flow control valve.

PFE Positioner Detail

Flow Control Valve Positioner with protective cover attached



Flow Control Valve Positioner without protective cover



Compressed Air Line Port

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