ServoTech INDUSTRIES
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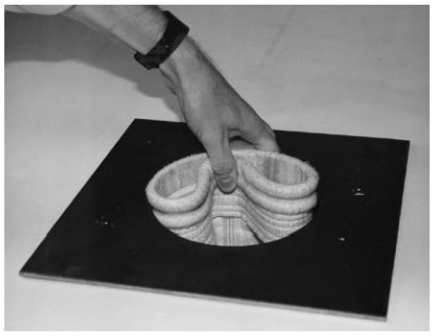
CONVENTIONAL HIGH PRESSURE PULSE FABRIC FILTERS

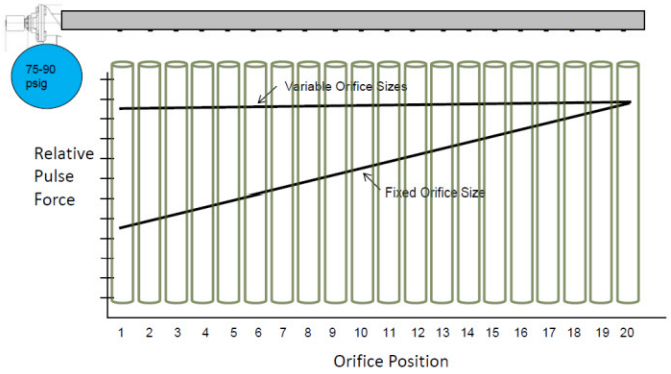
Amerair conventional pulse jet collectors feature: 1", 1-1/2", 2" or 2-1/2"pulse valves in a 6" diameter header. With header pressure operating in the range of 70 psig to 90 psig, Amerair engineers tailor the valve performance to meet bag length and material cleaning requirements for all applications.

Bag installation is a snap with tool-less double bead snap band installation into the cell plate. While an industry standard, Amerair fine tolerance quality control ensures a leak tight installation.



The advanced Amerair design uses a venturi at the top of the bag contained in the wire cage while allowing for efficient pulse cleaning with the pulse of compressed air centered in the bag.

Cleaning is further enhanced by balancing the cleaning force coming from each of the pulse tube's orifices by custom varying the diameter of each orifice progressively along the pulse tube using the industry's most advanced fluid flow program. Benefits include improved cleaning, longer bag life and reduced compressed air consumption.



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Walk in Plenum or Roof Door Access Designs

Walk in Plenum with insulated entry door

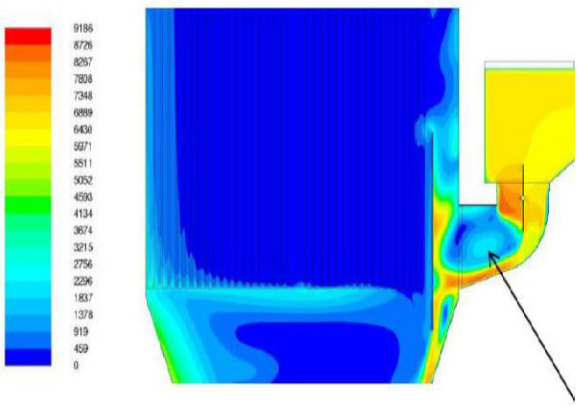
The walk in plenum design utilizes a full or half bag length (using split support cages) for access to the cleaning system and bags for maintenance. The benefits of this design include more positive insulation for corrosion control and reduced inleakage potential with access through a positive sealing insulated man door. Insulation covers over the door (not shown) are also part of the design.

The alternate design offered by Amerair is the roof door access configuration shown in the opposite column. Outdoor applications of this design utilize a fully enclosed penthouse for weather protection.

This design is often preferred for large filter applications where ease of access to multiple compartments, dampers, pulse valves and headers is desired in a totally enclosed environment. The Amerair design makes use of fully insulated lift off roof doors with double gasketing to minimize inleakage and corrosion potential.

Roof Door access with enclosed penthouse

Regarless of access design, our clients benefit from Amerair's attention to detail including CFD modeling for compartment flow distribution control.



Typical CFD compartment flow model