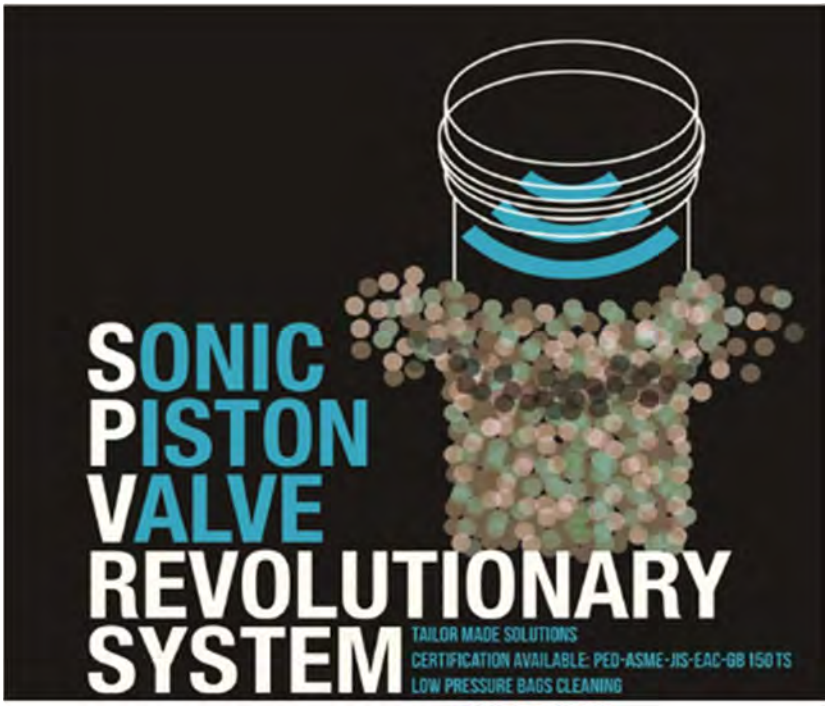
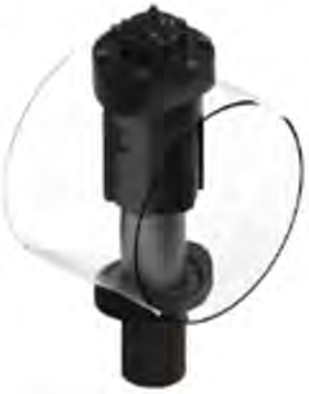
PISTON VALVE FOR LOW PRESSURE CLEANING



+ 50% FILTER SURFACE
- MORE EFFICIENT CLEANING WITH 12 METERS BAGS

- 60% COST OF RUNNING
- LONGER BAG LIFE
- PRIMARY AIR 2/3 BAR
- NO VENTURI NEEDED
- LOW CONSUMPTION OF COMPRESSED AIR

Operating at low pressure, the valve utilizes a revolutionary cleaning concept: the filter element is cleaned using a sonic wave that propels it at high speed, resulting in superior cleaning performance and very high pressure peaks, all while reducing air consumption and ensuring effectiveness and efficiency. Thanks to this revolutionary cleaning performance, the TRIMEC piston valve enables the cleaning of filter elements up to 12m in length, guaranteeing 40% more filtering surface than traditional diaphragm valves.



Main advantages of SPV Technology:

- low working pressure (<3 bar)
- minimized open/close time of the valve (<40 ms)
- high efficiency regardless of bag length (up to 12m)
- high efficiency regardless of dust load
- reduced cleaning frequency and stress of bags
- extended bag lifetime
- reduced quantity of cleaning valves (up to 28 bags per valve) and so lower energy consumption
- reduced maintenance cost
- no closing dampers closing to perform the cleaning.
- simplified filter construction, erection, operation, and maintenance
- high reliability of the system

CLEANING DIFFERENT BETWEEN PISTON VALVE & DIAPHRAGM VALVE

Piston Valve:

- Dynamic movement with sonic wave generated from Piston Valve
- The bags it's all cleaning from top to the bottom: we use 100% of cleaning surface of the bag!
- Less stress of the bag
- Low Air consumption

Diaphragm Valve:

- Dynamic movement with parabolic profile
- More stress of the bag, less lifetime
- High air pressure consumption, higher cost
- Low efficiency area at the top and end of the bag; we use 70 % of cleaning surface of each bag
- Suitable for short bag lenght

The force generate by SPV with sonic wawe has much higher efficiency respect diaphragm ; for this reason with piston valve we use bag with more lenght (Up to 12 mt)