

Dust Collection Catalog



V. 2025-05_02

Notities



DUST COLLECTION SOLUTIONS



MAC[®] PULSE VALVES



MAC Design Advantage

- High Flow / Long Life / Low Leak / Balanced Spool Design
- Drop-in Mounting Without Disturbing Existing Piping
- Fast/Repeatable Response Times for Quick and Accurate Purges
- Optimized for Reliable Performance in Harsh Environmental Conditions
- Bonded Spool Technology Self Cleaning Bore

Industry Specific Features

- Wide Range of Seals (Nitrile, Viton[®] and Proprietary Compounds)
- Environmentally Sealed for Wash Down Environments
- Remote Bleed and Integral Solenoid Pilot Available (AC & DC Voltage)

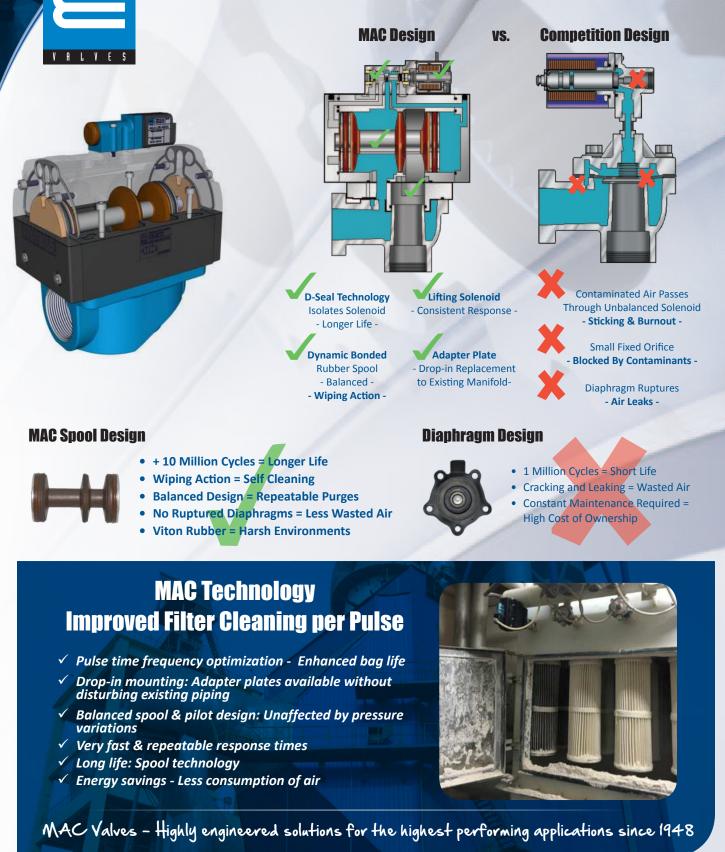


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ALVE

Valves That Don't Stick ™

DUST COLLECTION SOLUTIONS MAC PULSE VALVE





MAC Valves, Inc. Wixom, Michigan - MAC Valves, Inc. Dundee, Michigan - MAC Valves Europe, Inc. Liège, Belgium - MAC Valves Asia, Inc. Taiwan
To find your *local* distributor, visit *www.macvalves.com*





DUST COLLECTION SOLUTIONS















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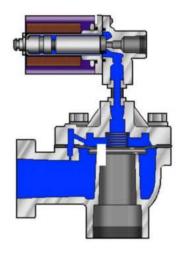
Collection systems

Diaphragm valve

Skinner pilot type

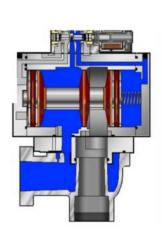
- Low response time when energize
- Low response time when de-energize
- Pneumatic part & electrical part connected
- Coil affected by contamination
- Pilot performances affected by external environment

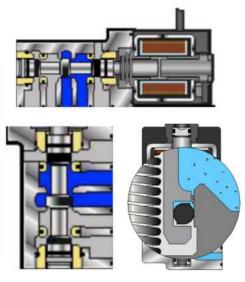
MAC Pulse Valve



MAC pilot

- Short response time when energizing
- Short response time when de-energizing
- Short stroke
- Strong return spring
- Balanced design not affected by pressure variation
- Not affected by contamination
- D seals
- Low friction
- 4/2 pilot

















Diaphragm technology

- 1 000 000 cycles life time
- Affected by T°C differences
- Damaged by the return spring
- Gets cracked & torn with the time
- Continuous leakages in case of holed diaphragm



MAC Pulse Valve

Spool technology

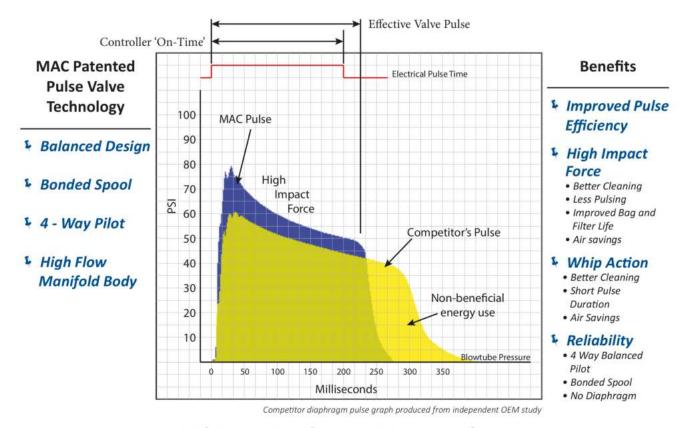
- 10 000 000 cycles life time
- Vulcanised bonded rubber
- Not affected by T°C differences
- Wiping Action
- Self cleaning process
- Balanced design / repeatable purges
- No leakage in case of failure

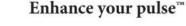






The graph shows the *MAC valve* opens and closes *quicker* than the comparable *membrane* valve – this has two effects – the *air pulse* created by the MAC valve is more *powerful* and *effective* in cleaning the dust bags, and also the MAC valve uses less energy in creating the pulse.



























Competition valves that are /have been functionning properly.



Before shooting. Not functionning during a month.



After two pulses on each bag (PV03)











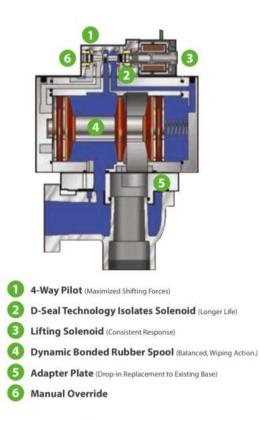


Dust Collection Solutions

KEY ADVANTAGES

MAC[®] Pulse Valve Technology

Enhance Your Pulse [™]



www.macvalves.com



Energy Savings	Powerful pulse action extends time needed between pulses, lowering energy costs.
Access	Access to valves in the dust collection system is difficult. The MAC spool valve's long life reduces lost labor and safety concerns attributed with repairs.
Downtime	When dust collection systems fail, plant operations come to a halt. MAC spool valves reduce downtime.
Product	Weak pulses cause excess waste to build up in the system and can cause a reduction in waste removal resulting in product contami- nation or a reduction in product yield.
Maintenance Costs	Diaphragm valves cause daily maintenance issues and increased labor costs. Spool valves allow for better use of labor through- out the plant.
Filter Bag Life	More efficient and effective pulses lead to cleaner filters/bags increasing overall filter life by reducing pulse frequency, lowering costs.
Ease of Use	Only the MAC solenoid pilot offers a manual override to test the pulse valve



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