

**More effective bag cleaning
delivers compressed air savings**



ASCO™ Series 353 Pulse Valve
Unprecedented flow rates and higher peak pressure
improve bag and filter life while reducing maintenance



Inadequate Peak Pressure and flow compromise even the most advanced dust collector systems.

Whether you're an OEM, engineer, purchasing manager, or end user, dust collector pulse valves that deliver an ineffective cleaning can make your job more difficult. With inadequate peak pressure and flow rate, cleaning becomes inefficient and the cost of compressed air (an expensive consumable) rises. Short lifespans are also a frustration point, causing an increase in downtime and impacting maintenance costs.

With countless other tasks to accomplish during your work day, subpar valves with short lifespans are just unacceptable. To get the job done right, you need a certified valve solution which hits peak pressure quickly, creating an overall more effective cleaning process.

“Keeping factories, facilities, and institutions protected from harmful dust is imperative to worker safety. “There have been at least 900 workers killed or injured in dust fires or explosions in North America alone since 1980.” — Chris Hamby. (2014, May).



“A dust collection system can be an expensive capital investment... it's important to look at total operational costs over the system's life. These include downtime costs: If your process is down due to filter changes or other maintenance, what is the impact to your business?” — Chrissy Klocker. (2017, June).



“Pulse-jet dust collectors are a continuing source of leaks, particularly when pulse-jet diaphragms fail and become very large compressed air leaks. An open 3/4-inch diaphragm pulse valve can leak 200 to 250 cfm, and 50 to 60 hp worth of compressed air is equivalent to about \$24,000/year.” — Hank van Ormer. (2018).





With countless other tasks to accomplish, inefficient valves with short lifespans are just unacceptable. Instead, get the job done right with the Series 353 Pulse Valve—a remarkable solution designed with your pressure and flow needs in mind.

The ASCO Series 353 Pulse Valve offers an exceptional combination of quality, performance, and value.



The ASCO Series 353 Pulse Valve by Emerson helps you improve operations in four distinct ways — delivering higher peak pressure and more flow than the competition for better overall performance, an extended life span with over 1 million cycles during product life on average, a wider ambient temperature range for more extreme conditions, and shorter lead times with our promise of quick shipments for ensured availability. In addition, the valve's fresh, new redesign boasts a patented quick mount clamp connection for faster and easier installation compared to threaded and dresser.

ASCO[™]



“For the dust collector applications, the ASCO valve and lead wires were provided as a single part number and were shipped in one box, making it easy for customer ordering and inventory management.”

– Purchasing Manager, Industrial Equipment Manufacturer

Don't let compromised peak pressure reduce your dust collector system's effectiveness.

An activated carbon products manufacturer was experiencing effectiveness problems with its dust collector pulse valves. We proposed an Integrated Solution that consisted of a standard enclosure that could hold up to 10 highly reliable Pulse valves. The customer benefited from easy drop-in valve replacements, and is now replacing all of the plant's pilot valves with ASCO products. *Efficiency* ▶

Take advantage of ASCO Series 353 Pulse Valve's unequaled quality and reliability.

Emerson builds products for repeatable operation with internals designed for tight seating. This results in a savings of expensive compressed air, while achieving maximum pulse Peak Pressure for best performance and longer life. *Performance and reliability* ▶

Get the valve installation ease you need to stay on task and on budget.

Emerson worked with an air filtration equipment manufacturer who was upgrading its industrial dust collection system. The company's existing valve technology, external pilot valves to control the dust collector valves, required connective tubing between the valves that added labor and materials. Replacing these valves with the ASCO Series 353 Pulse Valve required significantly less time to install, saving the company about \$3,500 on its 100-unit production run of dust collection systems. *Performance and reliability* ▶

Let our global manufacturing locations and Express shipment program help you meet your deadlines.

Ensured availability. We provide localized distribution across the globe. Emerson offers the most popular ASCO products for dust collectors via its Express shipment program. Result: you get the product or replacement kit you need, when you need it. *Quality* ▶

ASCO Series 353 Pulse Valve— delivering outstanding performance through an innovative redesign.



Product overview

The Series 353 Pulse Valve solution boasts a higher peak pressure and better flow than any of its competitors. The new valve design opens, hits peak pressure and closes faster than competition — giving you an optimal clean and a significant compressed air savings.

The newly redesigned product delivers five-star performance in a wide range of conditions. We build our valves for repeatable operations with internals designed for tight seating. Result: you save expensive compressed air, achieve maximum pulse pressure for best performance and longer life. For a complete list of the Series 353 Pulse Valve feature highlights and technical specifications, emerson.com/dustcollector

Key applications

The ASCO Series 353 Pulse Valve can be used in harsh industrial, and hazardous environments including:

- Concrete Processing
- Cement Factories
- Power Plants
- Steel Mills
- Metal Processing
- Lime Industry
- Agriculture and Feed
- Metal Working (Abrasive Blasting)
- Food Processing
- Foundries
- Pharmaceutical
- Mining
- Wood, Energy Industries (Coal Plant)
- Grain Processing Facilities
- Power Plants
- Chemical & Petrochemical Plants
- Pulp & Paper Factories
- Blasting & Sanding Facilities
- Paint Coating Factories

Series 353 Key specifications

- Faster valve opening/closing and highest peak pressure.
- Ruggedly reliable and robust design with explosionproof option.
- Global ratings and certifications according to local approvals (UL, CSA, EAC, EC, RoHS)
- Optional waterproof and explosionproof solenoids for use in potentially explosive atmospheres (gas & dust) according local categories & Zone classifications and certifications (NEMA, ATEX, CU-TR)
- Quick shipments for ensured availability
- Superior technical support and service
- Hazardous, indoor, and outdoor operating environment

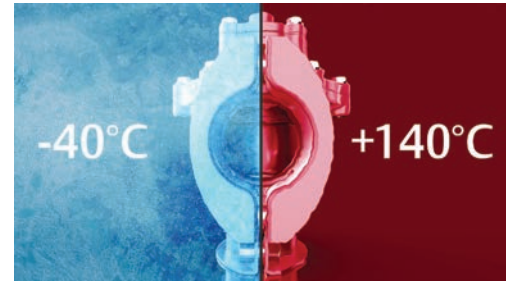
A re-envisioned design and wider temperature range for expanded capabilities

Life Span



- Rugged springless one-piece diaphragm extends life of the valve.

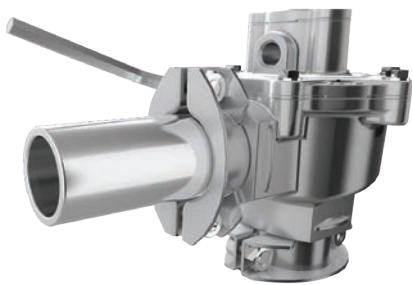
Extended Temperature Range



- Ideal for use in harsh and hazardous environments.
- Temperature rated down to -40°C (-40°F)
- Due to the special TPE membrane, the temperature can be extended downwards and upwards

Easier and faster installation with reduced valve noise and multiple connection options

Patented Quick Mount Clamp Connections



- Faster and easier installations
- Complete installation using a 6mm hex key

Noise Reduction



- Built in silencer offered as standard
- Brass silencer prevents foreign particles from entering valve

Installation



- 2 connection options (quick mount clamp and threaded)
- Integral and remote pilot options

Achieve a superior bag cleaning with increased peak pressure.



ASCO™

The newly redesigned ASCO Series 353 Pulse Valve delivers extremely fast valve response time, highest peak pressure, extended temperature range, patented Quick Mount Clamp connection, and overall part simplification.

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