



TECHNICAL DATASHEET

PULSE VALVES FOR DUST COLLECTORS

FOOD INDUSTRY



Pulse valves are designed for filtration systems and dust collectors used in industrial plants, including Food & Beverage environments, where high reliability and contamination control are required.

These valves ensure efficient filter cleaning through compressed air pulses, contributing to operational continuity and process quality.

TECHNICAL FEATURES

FEATURES

- Type: pulse valve for filtration systems
- Function: automatic cleaning of bag/cartridge filters
- Actuation: electro-pneumatic
- Available configurations:
 - compression connection
 - direct connection (direct piping)

Threads:

- Rc (BSPT)
- NPT
- G (BSPP)

OPERATING DATA

- Fluid/Ambient temperature:
 - -40°C ÷ +60°C
- Available sizes:
 - 3/4" – 1" – 1 1/2"
- Options:
 - with or without silencer
- Pilot configuration:
 - internal pilot with customization options

APPLICATIONS IN THE FOOD INDUSTRY

Pulse valves are used in:

- Food dust filtration systems (flours, sugars, powders)
- Process lines involving powder handling
- Dust extraction and filtration systems
- Pneumatic conveying systems

FEATURES FOR FOOD ENVIRONMENTS

- Suitable for environments subject to:
 - frequent washdowns
 - high humidity
- Available versions with:
 - materials suitable for the food industry
 - use of food-grade lubricants (NSF H1)
- Design focused on:
 - reducing accumulation
 - ease of cleaning

Essential for preventing contamination in filtration systems

ADVANTAGES

- High efficiency in filter cleaning
- Reduced pressure drop
- Extended filter element lifespan
- Operational continuity of the system
- Reduced maintenance

IMPORTANT TECHNICAL NOTE

For proper operation:

- recommended pilot orifice diameter ≥ 5 mm
- correct sizing of pneumatic lines is essential to ensure proper valve response