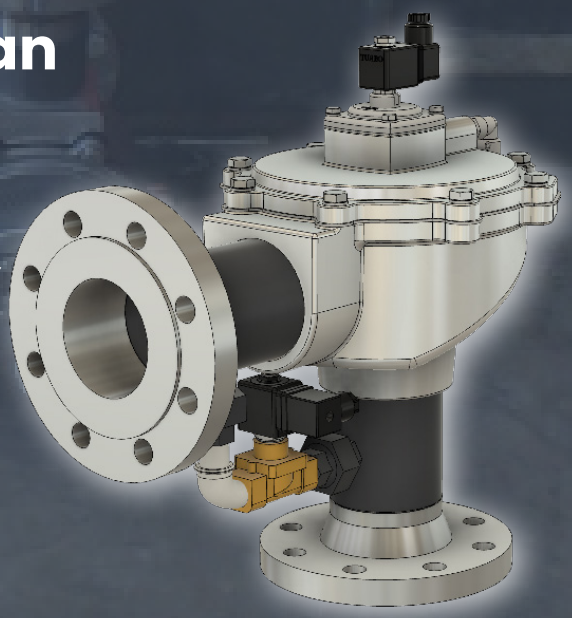
AEROVIT

Aerovit ShockClean Power

Keeps the convection inlet clean

The Aerovit ShockClean Power is designed to prevent ash buildup, that clogs the tube inlet.



The Aerovit ShockClean Power is specifically designed to prevent blockages at the inlet of the boiler's convection part.

Over time, ash and soot can accumulate at the tube plate, where flue gases first enter the convection part. This build-up restricts flow, forcing flue gas through fewer open tubes and increasing velocity, ultimately reducing heat transfer efficiency and raising operational costs.

Installing the Aerovit ShockClean Power valve significantly extends the interval between shutdowns for manual cleaning. This cleaning solution minimizes unscheduled downtime and helps maintain optimal boiler performance.

The Aerovit ShockClean Power valve is a 3" valve with an integrated bypass valve that keeps it free of deposits and fully functional before each cleaning cycle.

In addition to the tube plate, it can clean larger surfaces such as water tube screens and flat horizontal fluegas ducts.

Features:

- **Prevents clogging at the inlet of the boilers convection part**
  Reduces flue gas velocity and maintains stable heat transfer efficiency.
- **Proven higher efficiency and boiler output**
  Enhances heat transfer and boosts boiler performance.
- **Reduce manual cleaning and thus boiler shutdowns with 80-100%**
  Reduces downtime with automated, continuous cleaning.
- **Reduce fuel consumption per produced MW**
  Optimizes use of fuel for energy production.
- **Reducing CO_2 emission**
  Supports sustainability by lowering fuel consumption.
- **NC-Valve for pre-cleaning**
  Ensures a clean shockwave.
- **Low maintenance costs**
  Designed for durability with minimal wear parts to reduce service intervals.

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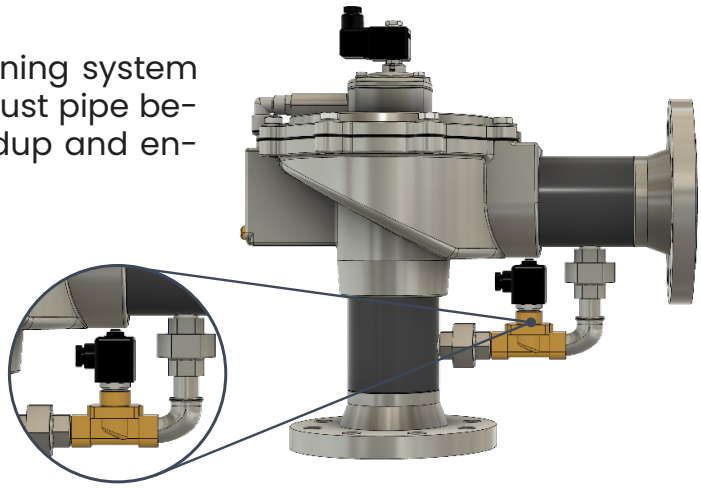
Aerovit NC-Valve

The NC-Valve plays a critical role in maintaining system efficiency. By automatically clearing the exhaust pipe before each activation, it prevents residue buildup and ensures a clean shockwave.

Designed with durability in mind, the NC-Valve operates only just before the actual shock wave is initiated. Ensuring safe and efficient cleaning.



Soot and ash buildup at the tube plate

Challenges caused by soot and ash buildup

Ash and soot buildup at the tube plate restrict flue gas flow, reducing heat transfer and increasing fuel consumption.

This localized blockage creates uneven gas distribution, decreasing boiler efficiency and raising the risk of unplanned shutdowns for manual cleaning or maintenance.

How does the Aerovit ShockClean Power work?

The valve delivers a powerful shock wave by rapidly releasing 900 liters of compressed air, effectively removing ash deposits and soot buildup at the boiler's tube plate before they settle.

The shock wave is precisely timed and controlled by an integrated timer system, ensuring consistent and targeted cleaning performance.

To protect internal components, the NC bypass valve clears the exhaust pipe before each activation, preventing residue buildup and ensures a clean shock wave.

Specifications:	
Cleaning Media:	Air
Voltage:	24VDC (alt.24VAC, 115V, 230V)
Ambient temperature:	-10°C/50°C
Recommended working pressure:	8 bar
Sound power level:	<80 dBA
Compliancy:	ATEX compliant (Option)
Weight:	19,0 kg. (per valve)
Dimensions:	44 x 41 x 24,5 cm
Timer controller power input:	230V or 115V (Option 24AC or 24DC)
Location/installation:	Depending on application