

Allen-Sherman-Hoff® Style III Equalizer Valve for Pneumatic Conveying Systems

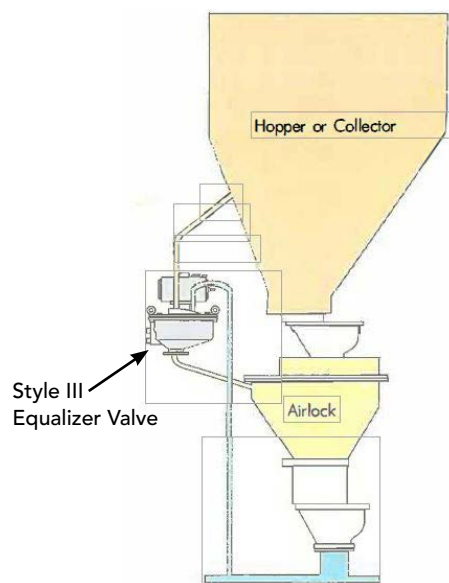
The Allen-Sherman-Hoff® (A-S-H®) Style III equalizer valve from Babcock & Wilcox (B&W) balances the pressure between two unequal pressure zones to promote the reliable transfer of material from one pressure zone to another in a batch process. Used in pressure systems for airlock equalization and in vacuum systems for collector equalization applications, the Style III equalizer valve is compact, lightweight and affordable.

Although small in size, the Style III equalizer valve is big when it comes to performance. The patented design, featuring a sliding Ni-hard gate and seat, is highly effective in abrasive service.

Benefits

Improved system performance

This equalizer valve is a three-way, two-position valve that offers long-term reliability. Positive, leak-free equalization promotes material flow between pressure zones, thereby increasing system operating efficiency and moving more material in a shorter time period.



The Style III equalizer valve mounts on the piping connection between two unequal pressure zones.



A single Style III equalizer valve reliably does the job of multiple valves on some ash systems.

Heavy spring forces press the gate against the seat causing the Ni-hard surfaces to self-lap to a finer, flatter finish. This maintains and improves the integrity of the seal between gate and seat as the valve is cycled in service.

Extended wear life

The Style III equalizer valve is engineered so that each upper port closes completely before the other opens. This eliminates simultaneous flow through all three ports, improving valve wear life. In addition, the seat and gate are made of wear-resistant Ni-hard. The equalizer valve typically provides a minimum time of 12 months between major overhauls.

Easier maintenance

Maintenance is simplified with this equalizer valve. Because all wear components are part of the cover sub-assembly, the cover (when properly installed) may be easily removed for ample and easy access to all normal wear parts.

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Features

- Dual, spring-loaded gate for consistent, even seating force
- Close coupled actuator to eliminate valve body shaft penetration seal leakage
- Rotary-type actuator with no air cylinder and no linkages to eliminate potential wear points
- Self-lapping seat and gate to continually maintain the seal while preventing localized wear patterns
- Ductile iron housing and cover for rugged performance

Availability

Available as a standard offering on new ash handling systems or as a retrofit for existing pneumatic ash conveying systems.

Specifications

Actuator	Double-acting, rotary-type directly mounts on gate shaft
Differential pressure	Vacuum system: 10 psi; Pressure system: 20 psi
	Vacuum-pressure system: 30 psi
Solenoid valves	120 volt/60 Hz; 240 volt/60 Hz
	220 volt/50 Hz; 240 volt/50 Hz
Temperature rating	Sealant, grease and packing to 500F (260C); valve body to 750F (398C)
Valve size	Upper port: 2.5 in. NPT female threads; Lower flange: universal
	Optional adaptor plate available to retrofit Style II or a competitor installation
Visual inspection port	4 in. NPT

The Babcock & Wilcox Company

20 South Van Buren Avenue
Barberton, Ohio, U.S.A. 44203
Phone: +1 330.753.4511

www.babcock.com     

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