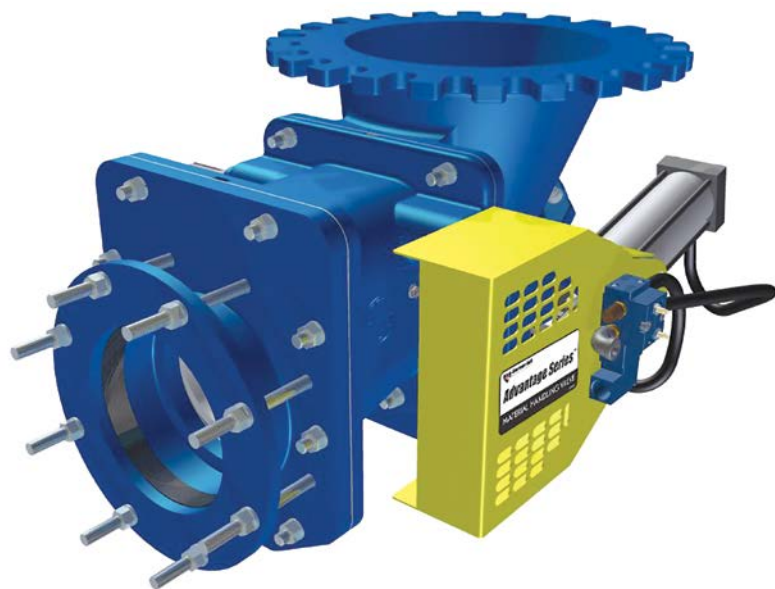


Allen-Sherman-Hoff® Advantage Series™ Material Handling Valves

The Allen-Sherman-Hoff® Advantage Series™ ash handling components are designed for today's most demanding applications.

Originally, hoppers located on the bottom of economizers, electrostatic precipitators and fabric filters were designed to collect ash for a specified period of time. The hoppers were then emptied on a periodic basis (or when they were full) by opening the dust valve at the hopper outlet. Today a wider variety of coals are utilized, as well as flue gas treatment systems that use chemicals and additives that are mixed with the ash. The result is an ash that is stickier and possibly more abrasive, which leads operators to empty the hoppers much more often to avoid bridging and rat-holing in the hopper. In turn, the dust valve is open much longer and exposed to a serious abrasion problem: high velocity, corrosive flue gas passing through the valve carrying abrasive ash particles – an ideal condition for premature valve wear.

The Allen-Sherman-Hoff Advantage Series material handling valves are designed for these changing operating conditions. Through extensive computer modeling, lab testing and extensive field testing, the Advantage Series material handling valves were designed to outperform conventionally designed dust valves. This design encourages ash flow and minimizes wear by utilizing hardened components for high-abrasion zones. The result is a proven and cost-effective valve that outperforms a conventionally designed valve.



A-S-H® Advantage Series™ 12 in. (305 mm) material handling valve

Features

- Available in 8 in. (203 mm) and 12 in. (305 mm) sizes (industry's largest throat size to minimize clogging)
- Unique seat placement hides sealing surfaces from abrasive particle impact
- Localized hardened alloy castings create wear-resistant surfaces in vulnerable areas
- Strategic wall-thickening in high-wear areas
- Optimized internal flow path conditions ash particles to impact at angles that minimize erosion (12 in. valve)
- Convenient maintenance accessibility with a removable rear access cover with optional dual rod-out ports or a single large port
- Universal actuation design with all components reversible to either side

Benefits

- Significant cost savings
 - Seat life extended by greater than 3X compared to conventional valves
 - Need for costly tungsten carbide liners is eliminated
 - Increased valve body life due to optimized internal flow path and localized hardened alloy castings
 - Fewer change-outs and minimal maintenance
 - Lighter, overall more compact valve due to strategic wall-thickening
 - Convenient maintenance accessibility allows removal of large objects, provides easy rod-out access, and permits implementation of air injection if required
 - Left- or right-hand mounting capability is field reversible with easily set actuation, reducing inventory levels
 - Large throat with flapper-style gate prevents clogging and maintains leak-free seal

(Continued on reverse side)

Applications and Availability

A-S-H® Advantage Series material handling valves are suitable for regulating dry, free-flowing fly ash material into a transport system.

They are available for lateral feed vacuum conveying systems and as a direct replacement for UCC® Tiger™ valves. For more information on the Advantage Series material handling valve or on our other ash handling and performance solutions, contact your local B&W representative, or call 1-888-ASH-PARTS (1-888-274-7278).



A-S-H Advantage Series 8 in. (203 mm) material handling valve

Specifications	8 in. (203 mm) valve	12 in. (305 mm) valve
Actuator	Generates a positive sealing force of 540 lb @ 80 psi (245 kg @ 552 kPa)	480 lb @ 80 psi (218 kg @ 552 kPa)
Inlet size	8 in. (203 mm) with universal bolt pattern for hopper mounting	12 in. (305 mm) with universal bolt pattern for hopper mounting
Outlet size	Connects to 4 in., 5 in. or 6 in. (102, 127 or 152 mm) plain end piping No sleeve coupling required	
Maximum material temperature	750F (399C)	
Weight	200 lb (91 kg)	300 lb (136 kg)
Access	Large 5.5 x 7 in. (140 x 178 mm) removable access cover with the following options: two (2) 1.5 in. (38 mm) NPT or one (1) 4 in. (102 mm) NPT ports for rodding or addition of air inlet valves	

Babcock & Wilcox

20 South Van Buren Avenue
Barberton, Ohio, U.S.A. 44203
Phone: +1 888.ASH.PARTS
Fax: +1 484.875.1600

www.babcock.com     

The information contained herein is provided for general information purposes only and is not intended nor to be construed as a warranty, an offer, or any representation of contractual or other legal responsibility.

Allen-Sherman-Hoff, A-S-H and Advantage Series are trademarks of Diamond Power International, Inc., a subsidiary of The Babcock & Wilcox Company. UCC and Tiger are trademarks of United Conveyor Corporation.

Babcock & Wilcox supplies Diamond Power boiler cleaning and Allen-Sherman-Hoff ash handling equipment and systems.

© 2016 The Babcock & Wilcox Company. All rights reserved.



ENERGY | ENVIRONMENTAL

Established in 1867, Babcock & Wilcox is a global leader in advanced energy and environmental technologies and services for the power and industrial markets, with operations, subsidiaries and joint ventures worldwide.

For more information, or a complete listing of our sales and service offices, send an e-mail to info@babcock.com, or access our website at www.babcock.com.