

# Allen-Sherman-Hoff® Airlock Retrofit Kit for Style IV Airlock Segregating Valves

Babcock & Wilcox (B&W) offers the Allen-Sherman-Hoff® (A-S-H®) Style IV airlock gate and seat retrofit kit. The Style IV upgrade provides improved wear life, easier maintenance and increased sealing force for greater material head support. Replacement wear parts for the Style IV are needed less often and cost less than the Style I.

## Benefits

### *Dramatically decreased maintenance costs*

The improved Style IV design reduces replacement frequencies. Gate and seat wear life is exponentially improved over the original Style I design. The Style IV gate has an estimated wear life that is four to ten times longer than the original. The seat lasts two to five times longer. Plus the Style IV valve is capable of supporting a material head three times the height of the Style I.

### *Superior construction, improved performance*

The component parts of the Style IV airlock segregating valve were re-engineered using advanced, wear-resistant materials to deliver ultra, no-warp performance. The robust coil spring and Ni-hard seat and gate are just a few of the upgraded components that deliver reliable operation and superior sealing.

### *Simplified maintenance*

Individual installation components make the difference here. The arm and gate combination can be mounted separately. Since there's no need to support and align a heavy combination of parts, maintenance is quicker and easier.



The Style IV airlock retrofit kit is available for high- and low-temperature applications and includes Ni-hard gate and seat, gate arm, heavy-duty coil spring, adjusting screw, gasket, retaining ring, and installation hardware.

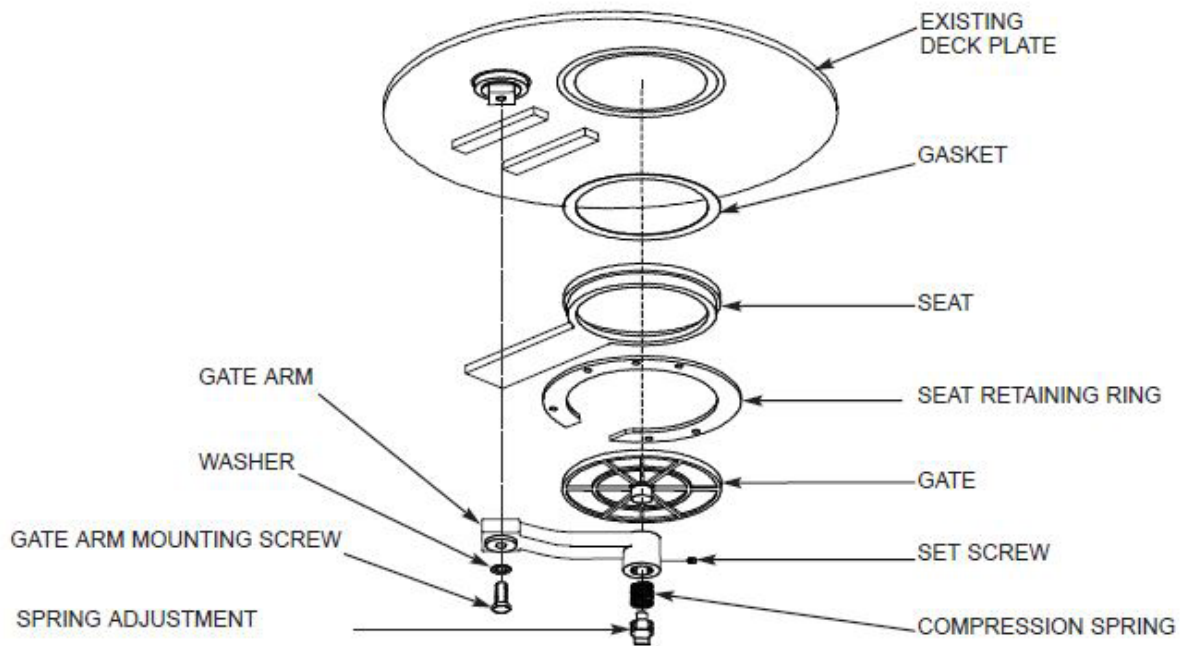
## Features

- Tabbed seat allows gate to ride in a smooth ore during the opening and closing cycle.
- Rotating and tilting gate is self-aligning and self-lapping to extend the wear life of both the gate and seat.
- Heavy-duty coil spring is easily adjustable and ensures seal between gate and seat.
- Compatible with most high- and low-temperature applications including precipitators, baghouses, collectors and vacuum pressure transfer stations.

## Availability

Style I rotary segregating valves are available as well for most airlocks. Choose from high- (750F/399C) or low-temperature (350F/177C) kits. A Style IV maintenance kit which includes replaceable wear parts (Ni-hard gate and seat, coil spring and gasket) is also available.

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## Specifications

- Seat
  - Ni-hard, heat-treated to a minimum Brinell hardness of 600 BHN
- Gate
  - Ni-hard Brinell hardness 550 BHN (minimum)
- Coil spring
  - Provides 262 pounds of force for normal applications of 10 to 15 ft material head or pressure drop of 2.5 psi

## Style IV Airlock Retrofit Kit contents

Each retrofit kit includes a Ni-Hard gate, Ni-Hard seat, gate arm, heavy duty coil spring, adjusting screw, gasket, and retaining ring, plus all the hardware required for installation. Step-by-step instructions on how to safely remove the Style I components and install the Style IV parts are included in each Retrofit Kit. The spring and adjusting screw supplied in the high and low temperature retrofit kit differ. These components have been specifically designed for the temperatures of the application.

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