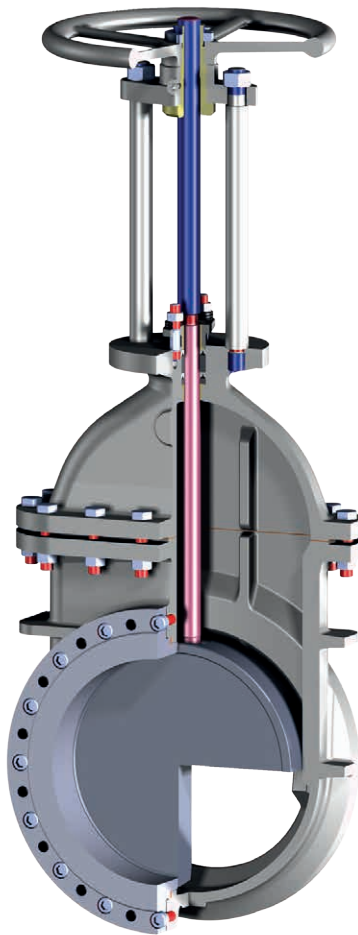


# RH Gate Valve

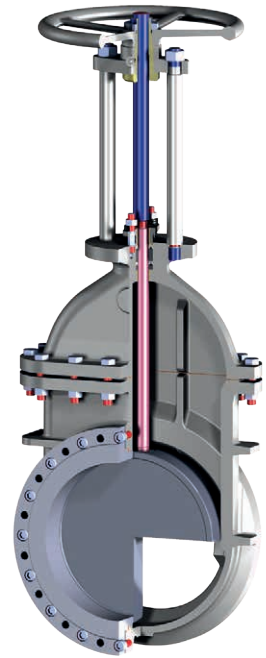
Self cleaning seat design for  $H_2SO_4$   
and other aggressive media



# RH Gate Valve

Many years of experience have enable IMI TH Jansen to develop valves which meet the highest requirements of the chemical process industry. The RH Gate Valve is a result of this wide experience which offer a high operative safety even in contact with media down to very low pH-values. This single seat wedge gate is able to withstand acids of all concentrations as well as abrasive and corrosive slurries and fluids containing solids.

The used material for this special valve is a extreme corrosion- and erosion resistant highly-alloyed steel casting developed only for the RH-Valve. Typical cases of application are sulphuric and phosphoric acids, slurries and abrasive media



## Key features

- > Reduced face to face dimension for a compact installation
- > Straight round bore with very low head loss minimizing turbulences in open position
- > Easy regrinding of the seat surfaces
- > Maintenance-free stuffing box
- > The wedge is forced against the seat ring by slanting guide in the bottom of the body
- > Minimized turbulences in open position

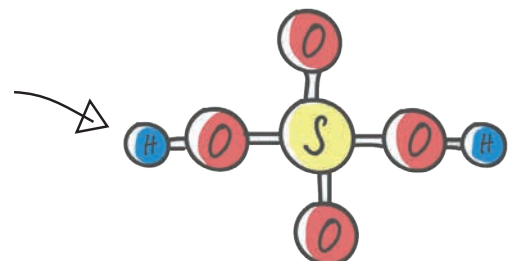
*Dramatically reduces risk of physical injury*



## Benefits

- > Slight wear by erosion through the self cleaning design, that keeps the seat free from deposits
- > Wide range of materials to suit the handled media
- > Resilient sealing system made for acids of all concentrations like oleum or phosphoric acid
- > Highly abrasive resistant to suit fluids containing solids like chalk and ash slurries
- > Long operative functionality by self cleaning seat design
- > Modification for other types of actuating is possible without machining

*Designed with sulfuric acid in mind*



## Clamping & unclamping

RH valves are used predominantly in demanding plants and applications and must operate safely and reliably over the years. The corrosive nature of sulphuric acid requires that special attention be paid to materials of construction to ensure long service life and reliable operation. The valve design itself is kept very compact with a reduced face to face dimension in order to save valuable space within the installation. Optionally this valve can be equipped with a flushing connection for additional cleaning purposes.

The straight round bore enables a low pressure drop and minimizes the turbulences in open position. The erosion is minimized through a slight wear by of the gate plate. The wedge itself is forced against the seat ring by slanting guides in the bottom of the body. Impurities on the seat ring will be scraped off during the transit of the gate plate. The valve is equipped with a maintenance-free stuffing box and the flanges are tapped holes for stud bolts, for assembly with pipe flanges to DIN 2501, PN 10/16/25.



RH Gate valves for sulphuric acid

## Product specification

### Diameters

DN50 - 250

### Pressure

PN10/16/25

### Flanges

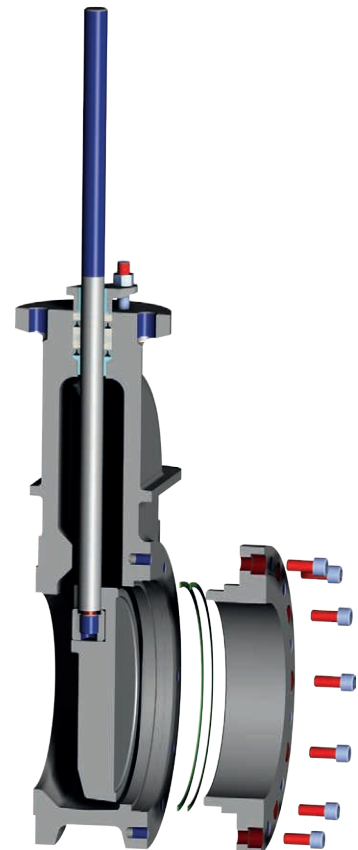
With patted holes for double and stud bolts, for assembly with pipe flanges to DIN EN 1092 PN 10/16/25

### Materials

Body	1.4136
Seat ring	1.4136
Packing	PTFE/RP9

*All state of the art means of operation can be used with this valve such as electronic actuators*

*Use of up to 2 sealing rings for adaption on the length*



**IMI Th Jansen**

Th. Jansen-Armaturen GmbH  
Blücherstr. 47  
D-66386 St. Ingbert  
Germany  
Tel: +49 (0)6894 593 0  
Fax: +49 (0)6894 593 100  
E-Mail: [imithj.sales@imi-critical.com](mailto:imithj.sales@imi-critical.com)

**IMI Z&J Germany**

Z&J Technologies GmbH  
Bertramsweg 6  
D-52355 Düren  
Germany  
Tel: +49 (0)2421 691 0  
Fax: +49 (0)2421 691 200  
E-Mail: [imizandj.germany@imi-critical.com](mailto:imizandj.germany@imi-critical.com)  
[www.imi-critical.com](http://www.imi-critical.com)

**IMI Critical Engineering LLC**

4525 Kennedy Commerce Drive  
Houston  
TX 77302  
USA  
Tel: +1 281 446 8000  
E-Mail: [imizandj.usa@imi-critical.com](mailto:imizandj.usa@imi-critical.com)  
[www.imi-critical.com](http://www.imi-critical.com)

**IMI Critical Engineering**

Lakeside, Solihull Parkway  
Birmingham Business Park  
Birmingham B37 7XZ  
United Kingdom  
Tel: +44 (0)121 717 3700  
Fax: +44 (0)121 717 3701  
[www.imi-critical.com](http://www.imi-critical.com)