

The valve  
for your high  
viscous products.

# FULL STROKE VALVES





# FULL STROKE VALVES

Rieger's aseptic and hygienic Full Stroke Valves are best-in-class valves for high viscosity products, such as tomato paste, jam or smoothies. With the full cylindrical stem, the valves open 100% of the tube size, which avoids any dead spaces within the valve and reduces pressure drops to a minimum. An optional steam barrier guarantees hermetic sealing against the environment. Industries of application: tomato processing, food, dairy and cosmetics.

### DESIGN FEATURES

- / Valve body made from solid bar
- / No dead spaces
- / Resistant to aggressive fluids
- / Hermetically sealed against the environment through steam-barrier
- / Long service life of PEEK sealing
- / Drainable

### MAINTENANCE BENEFITS

- / Maximize life cycles
- / Ease of cleaning – CIP/SIP
- / Modular system makes changing actuator more convenient – from pneumatic to manual or vice versa.
- / Change seals without special tools
- / Minimal downtimes
- / Low spare parts cost
- / Sealings conform to FDA regulations

### OPTIONS INCLUDE

- / Wide variety of installation positions available
- / High quality product surface finishes available, including electropolishing
- / Electronic feedback

### ACTUATOR VERSIONS

- / Pneumatic actuator
- / Manual actuator



## PRODUCT OVERVIEW Full Stroke Valves

Page 4 Full Stroke Valve

Page 5 Bypass Valve BP

Page 6 Railcar Valve

Page 7 Isolation Valve

Page 8 Technical Data

Page 8 – 9 Overview Hygienic Single Seat Valves

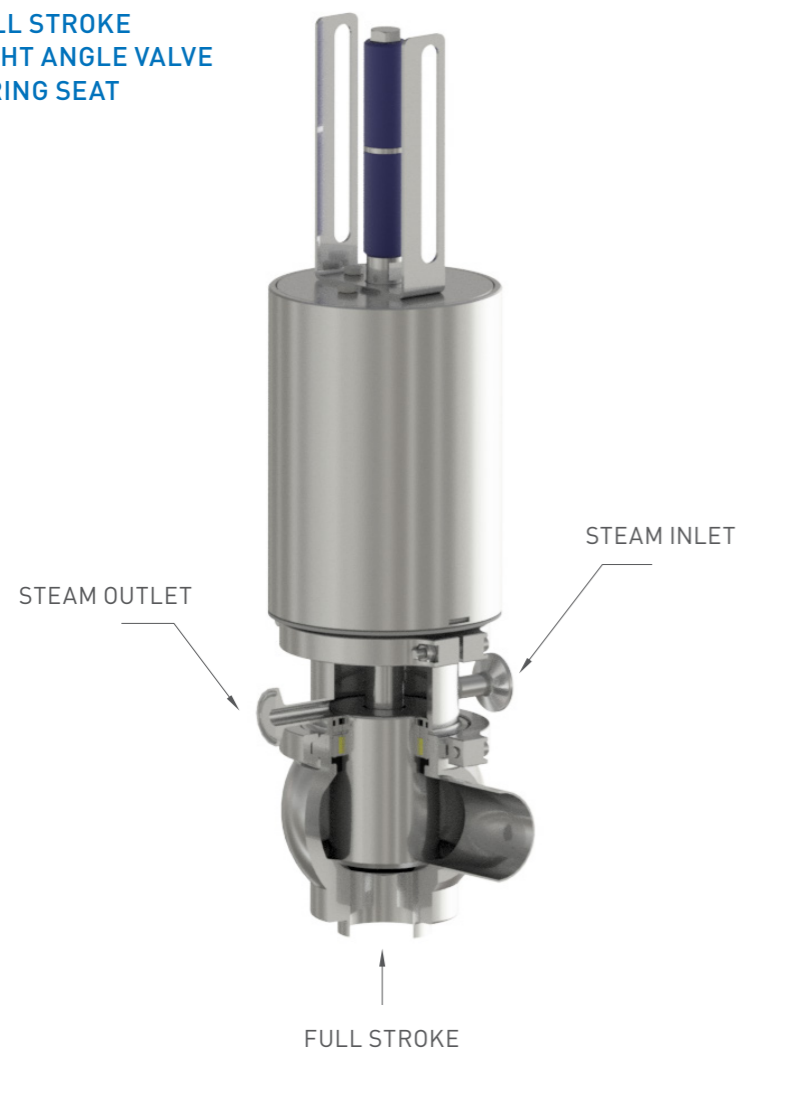
Page 10 Other Versions

Page 11 Rieger worldwide

### Comparison of Rieger Full Stroke Valves

| TYPE                                 | Full Stroke Right Angle Valve O-Ring Seat | Full Stroke Right Angle Valve PEEK Seat | Bypass Valve | Railcar Valve   | Isolation Valve   |
|--------------------------------------|---|---|--------------|---|---|
| Use with Common Media                | ●   | ●                                       | ●            | ●   | ●   |
| Use with Aggressive/ Corrosive Media |   |   | ●            | ●<br><small>Consultation for Special Alloys Recommended</small> | ●<br><small>Consultation for Special Alloys Recommended</small> |
| Media without Particles              | ●   | ●                                       | ●            | ●   | ●   |
| Media with Particles                 |   | ●                                       | ●            | ●   | ●   |
| Manual with Crank Handle             |   |   |              | ●   |   |
| Pneumatic                            | ●   | ●                                       | ●            |   | ●   |
| Hygienic – Without Steam Barrier     | ●   | ●                                       | ●            | ●   | ●   |
| Aseptic – With Steam Barrier         | ●   | ●                                       | ●            | ●   | ●   |

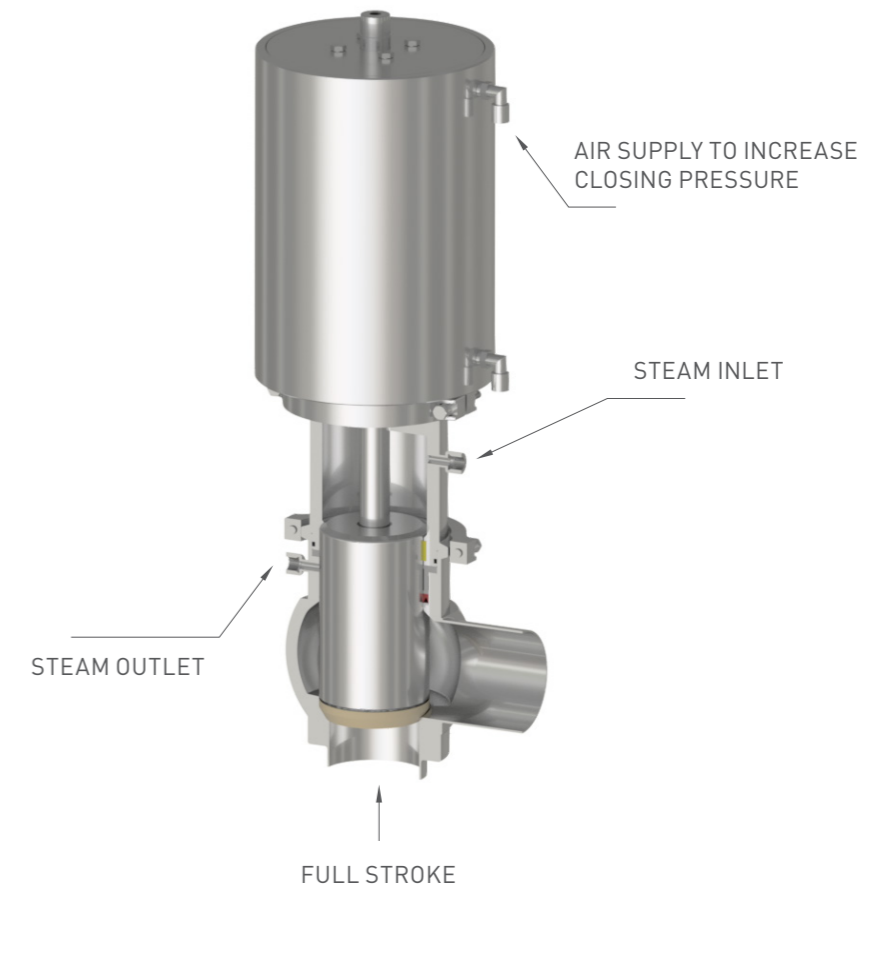
FULL STROKE  
RIGHT ANGLE VALVE  
O-RING SEAT



FULL STROKE  
RIGHT ANGLE VALVE  
PEEK SEAT



BYPASS VALVE BP  
PEEK



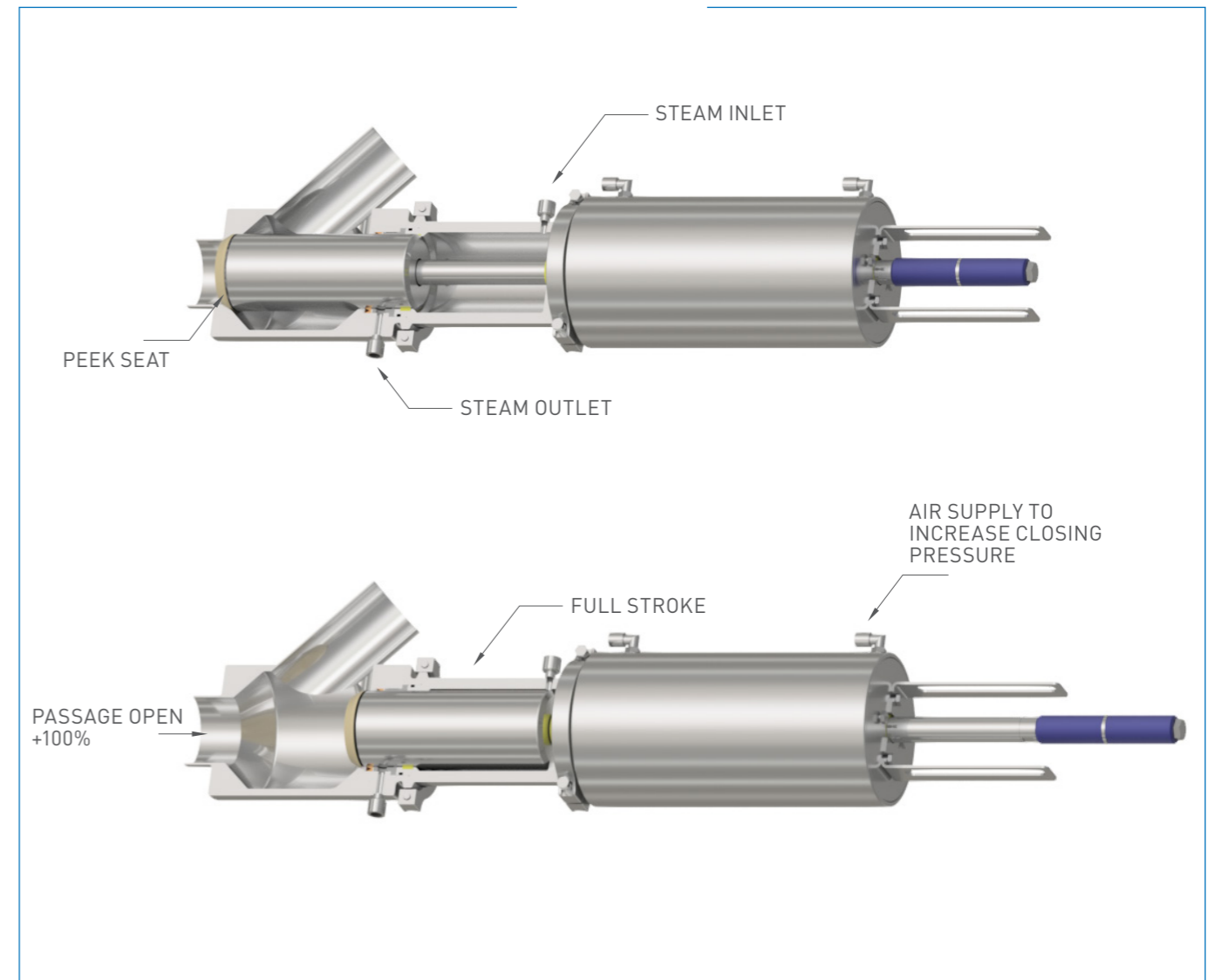
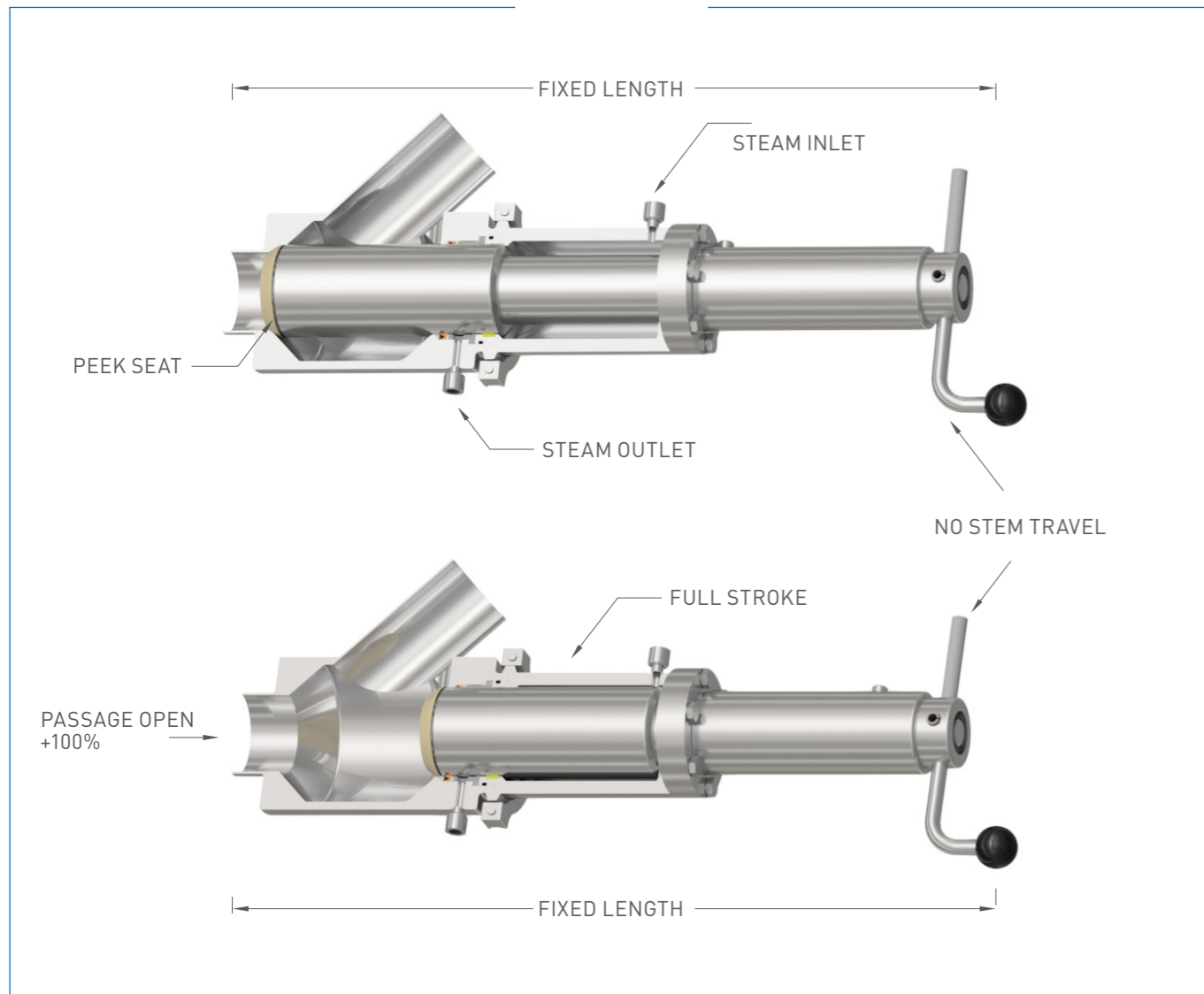
| Dimensions       | DN 40<br>1,5" | DN 50<br>2"  | DN 65<br>2,5" | DN 80<br>3"  | DN 100<br>4" |
|------------------|---------------|--------------|---------------|--------------|--------------|
| Stroke           | 36 mm         | 50 mm        | 65 mm         | 75 mm        | 95 mm*       |
| Closing pressure | 6 bar/87 psi  | 6 bar/87 psi | 6 bar/87 psi  | 6 bar/87 psi | 6 bar/87 psi |

| Dimensions  | DN 50<br>2"         | DN 65<br>2,5"       | DN 80<br>3"         | DN 100<br>4"        |
|---|---------------------|---------------------|---------------------|---------------------|
| Stroke  | 45 mm               | 60 mm               | 65 mm               | 95 mm*              |
| Closing pressure with<br>6 bar/87 psi air assist    | Max. 14 bar/203 psi | Max. 14 bar/203 psi | Max. 14 bar/203 psi | Max. 14 bar/203 psi |
| Closing pressure without<br>6 bar/87 psi air assist | 5 bar/72.5 psi      | 5 bar/72.5 psi      | 5.5 bar/79.8 psi    | 4 bar/58 psi        |

\* Bürkert control top Type 8681 not possible for this dimension. The maximum stroke possible is 80 mm.

\* Bürkert control top Type 8681 not possible for this dimension. The maximum stroke possible is 80 mm.





|                         |                     |                     |                     |                     |
|-------------------------|---------------------|---------------------|---------------------|---------------------|
| <b>Dimensions</b>       | DN 50<br>2"         | DN 65<br>2,5"       | DN 80<br>3"         | DN 100<br>4"        |
| <b>Stroke</b>           | 90 mm               | 110 mm              | 125 mm              | 160 mm              |
| <b>Actuator</b>         | Manual              | Manual              | Manual              | Manual              |
| <b>Closing Pressure</b> | Max. 14 bar/203 psi | Max. 14 bar/203 psi | Max. 14 bar/203 psi | Max. 14 bar/203 psi |

|   |                     |                     |                     |                     |
|---|---------------------|---------------------|---------------------|---------------------|
| <b>Dimensions</b>                                       | DN 50<br>2"         | DN 65<br>2,5"       | DN 80<br>3"         | DN 100<br>4"        |
| <b>Stroke</b>   | 90 mm               | 110 mm              | 125 mm              | 160 mm              |
| <b>Closing pressure with 6 bar/87 psi air assist</b>    | Max. 14 bar/203 psi | Max. 14 bar/203 psi | Max. 14 bar/203 psi | Max. 14 bar/203 psi |
| <b>Closing pressure without 6 bar/87 psi air assist</b> | 2.5 bar/36.3 psi    | 2 bar/29 psi        | 2 bar/29 psi        | 8 bar/116 psi       |

\* Bürkert control top Type 8681 not possible for this dimension. The maximum stroke possible is 80 mm.

\* Bürkert control top Type 8681 not possible for this dimension. The maximum stroke possible is 80 mm.



Life Cycle Valve LCV

/ Stroke: 19,5mm (DN 50)  
/ maintenance free actuator  
/ valve for standard applications with basic requirements



Standard Single Seat Valve ESV

/ Stroke: 22mm (DN 50)  
/ maintainable actuator



Single Seat Valve with Balancer BC

/ Stroke: 22mm (DN 50)  
/ balanced valve disk  
/ waterhammer safe during closing  
/ maintainable actuator



Long Stroke Valve LS

/ Stroke: 38mm (DN 50)  
/ larger stroke  
/ maintainable actuator



Full Stroke Valve FS

/ Stroke: 49mm (DN 50)  
/ 100% open passage  
/ maintainable actuator



For more details on the versions and pricing, request our catalogue.

PARTICLE SIZE IN MEDIUM

PRESSURE DROP

## Technical Data

|                     |  |   |
|---------------------|--|---|
| <b>MATERIAL</b>     | / in contact with product  | 1.4404/AISI 316L  |
|                     | / optional   | 1.4435/AISI 316L  |
|                     | / not in contact with product  | 1.4301/AISI 304   |
|                     | / all valves are available in special alloys, such as Hastelloy C22, 1.4539/904L, 1.4529, AL6XN and others |   |
| <b>GASKETS</b>      | / EPDM or Viton (other materials upon request)<br>/ PEEK for media with particles                          |   |
| <b>TEMPERATURES</b> | / continuous operation   | 130 °C* (266 °F)* (EPDM)  |
|                     | / steam sterilization  | 150 °C* (302 °F)* (EPDM)  |
| <b>PRESSURE</b>     | / closing pressure   | 6 bar (87 psi) standard, 10 bar (145 psi) and higher pressures available upon request |
|                     | / air pressure   | min. 6 bar (87 psi) / max. 10 bar (145 psi)   |
| <b>SURFACES</b>     | / in contact with product  | Ra ≤ 0,8 µm (32 µin) mechanically polished  |
|                     | / not in contact with product  | Ra ≤ 1,6 µm (63 µin) mechanically polished  |
|                     | / higher quality surface finishes and e-polishing available upon request                                   |   |

\* dependent upon operating conditions

Other body configurations for Long Stroke and Full Stroke versions available.  
Valves in pressure ratings PN6, PN 10, PN 16 and PN 25 available.

### YOU DON'T HAVE TO CHANGE YOUR PROCESS.

With our longstanding experiences and our specialized production we can offer the suitable valve for almost every application.

### WE ADAPT OUR VALVES TO YOUR PROCESS!

Make an appointment today for a free consultation for your specific application.

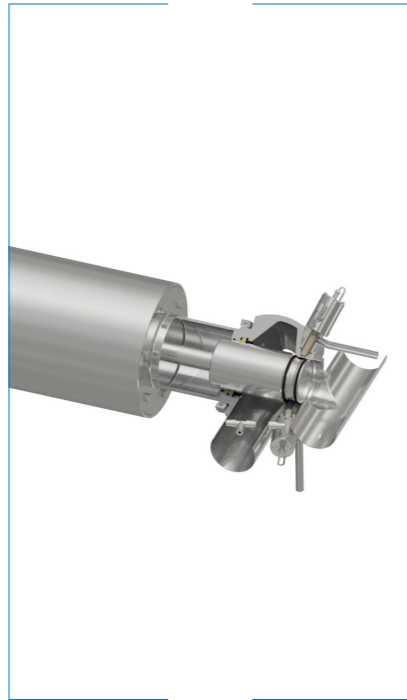




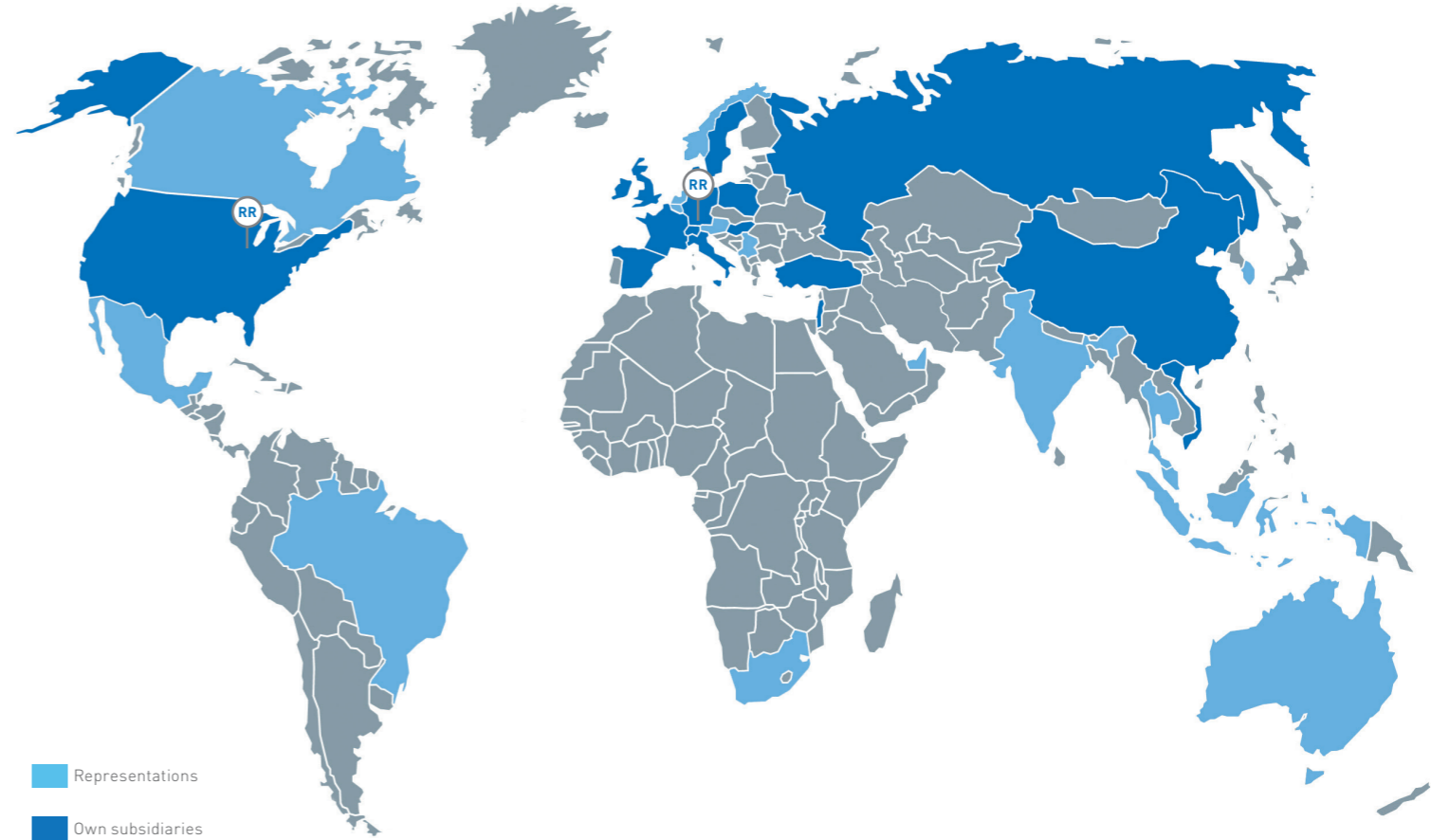
Mix Proof Double Seal Valve in Full Stroke Version



Mix Proof Double Seal Valve in Full Stroke Version for horizontal build-in position



Tank Outlet Bottom Seat Valve in Full Stroke Version



ADDITIONALLY TO OUR VALVES WE OFFER A WIDE RANGE OF SERVICES ON YOUR PREMISES

Our range of services includes:

- / service and maintenance of all Rieger products and other current valve and fittings manufacturers in your company
- / classic maintenance including I/O check and documentation
- / stock taking with parts lists of your plant to ensure a correct spare parts procurement
- / preventive maintenance with maintenance contract
- / optimization and engineering services

Additionally we offer trainings and developments for your team.



The NEUMO Ehrenberg Group is a family run holding, which is operating worldwide with more than 2.100 employees.

Since 1958 Gebr. Rieger has been a member of the NEUMO Ehrenberg Group. In our department valve technology Gebr. Rieger is successfully working in the fields of valves, customized solutions, such as valve blocks and tubular structures as well as system engineering, which includes valve clusters, units, CIP-systems and all kinds of plug and play solutions.

By its global approach Rieger gained international attention in the markets of food, beverage and pharmaceutical industries.

Besides the Sampling Valves the valve range also includes Mix Proof Valves, Filling Valves and Pigging Systems.

FURTHER BROCHURES



Further Rieger valve types upon request and in our catalogue. Contact your dedicated sales manager in our sales team in your area.



Gebr. Rieger GmbH + Co. KG

Kochertalstraße 32 DE-73431 Aalen Phone: +49 7361 5702-0 Fax: +49 7361 5702-51 info@rr-rieger.de www.rr-rieger.de

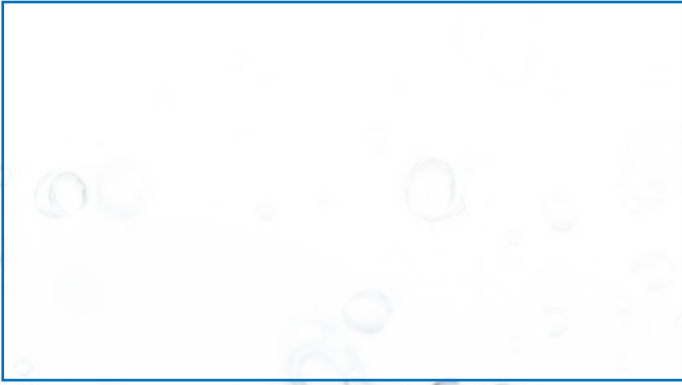


Rieger Flow Products, LLC.

6121 Green Bay Rd, Suite 220 Kenosha, WI 53142, USA Phone: +1 262-657-5566 Fax: +1 262-657-5058 info@rr-rieger.com www.rr-rieger.com



DISTRIBUTED BY:



**YOU DIDN'T FIND THE RIGHT VALVE?**

Further Rieger valve types upon request and in our catalogue.  
Contact your dedicated sales manager  
in our sales team in your area.

