THALETEC PremiumValve

Bottom outlet valves for glass-lined equipment and equipment made of stainless steel

in chemicals, fine chemicals and pharmaceuticals



The THALETEC bottom outlet valve "PremiumValve" is a comprehensive new development, into which a lot of knowledge and numerous suggestions from our customers have flowed.

Features

- Bottom outlet valve for glass-lined equipment and equipment made of customer-specific steel alloys
- Operating pressure: -1/+10 bar
- Operating temperature: -60°C/+230°C
- **Glass-lining:** RAS GLASS blue, optional with abrasion-resistant glass ABRISIST blue
- Nominal sizes: DN 150/100, 100/80, 80/50 and 50/32. Other nominal sizes on request
- Also available as GMP version
 "PremiumValve Pharma" (leaflet k071)

Valve pistons





Standard

ConducTip







Sampling*

Glass lining monitoring*

TRBS 2153 (avoidance of ignition risk as a consequence of **electrostatic charges**) it is necessary for highly and medium conductive liquids in glass-lined equipment to have electrical earthing. This requirement can be met by a valve piston with **ConducTip**.

The ConducTip is a contact point coated with an electrically conductive glasslining on the valve piston. Inside the ConducTip there is room for a temperature probe of the type flexsens 100, which can be removed laterally with the valve closed. All valve pistons are **precision ground** on the sealing surfaces to ensure a secure seal under all operating conditions.



Bottom outlet valve with sampling

Valve seat



valve seat



GMP-design with O-ring seal

The valve seat ensures a secure seal of the valve piston and thus a tightly sealed tank. THALETEC valve seats are made of a high-quality, FDA approved and thermically stable PTFE compound. Depending on requirements there is a choice of different designs:

- Standard design for general applications in the chemical industry with Labyrinth lip seals to make a seal between the valve seat and the tank nozzle
- **GMP design** with soft-sealed, FEP-coated O-ring



Corrugated bellows

The valve piston is hermetically sealed with newly developed **corrugated bellow** optimised in terms of ease of **cleaning** and operational **life** and made of a high-quality PTFE compound. Contrary to conventional bellows the corrugated bellow is less susceptible to material fatigue and are optimal for cleaning. Product residues cannot get caught because of the shape of the corrugations. In accordance with **GMP guidelines** the corrugated bellows are also sealed to the valve body, the glass-lining of

which is precision ground in the seal area. With the **safety stuffing box** the valve is also designed in compliance with the German technical instructions on air quality control (TA Luft). FDA certificates are available as an option for all synthetic materials in contact with the product. Apart from the valve size 50/32 the corrugated bellows are the same for all valve sizes to facilitate spare parts stocks.

Valve body





The valve body is designed as a welded

construction which facilitates extensive variations and customer-specific adjust-

ments. Thus valves with an outlet angle

of 60° and 45° can be executed. An addi-

tional side nozzle DN 25 or a design with

integrated heating/cooling jacket are also







Standard: glass-lined Glass-l 60° outlet angle additio

Glass-lined, 60° outlet Glass-dined, 60° outlet Glass-lined, 60° outlet here

Glass-lined with heating/cooling jacket* Glass-lined, 45° outlet angle Stainless steel special alloys

available. Besides the standard nominal sizes 150/100, 100/80, 80/50 and 50/32 any connection combinations desired can be achieved.

On request valve bodies can also be made from **stainless steel** or **high-alloy materials**, such as Hastelloy or titanium.



Temperature probe, flexsens 100, can be removed laterally without having to dismantle or open the valve

Actuator



Standard: Inline actuator unit with stainless steel cover



Manual actuator handwheel

The valve actuator is available »Inline« or as a lateral actuator. The »inline-design« is protected against contamination by a covering of stainless steel in accordance with GMP guidelines and is easy to clean. In addition, a manual actuator with a hand-



Pneumatic actuator unit, lateral (low height)



Pneumatic actuator made of stainless steel



Limit switches on/off



Lateral emergency handwheel

wheel and a spring-force closing pneumatic actuator for control pressure up to 6 bar is available. There are optional accessories such as **limit switches**, **position controllers** and an **emergency handwheel** (for the pneumatic actuator).

* Not available in all sizes

We would be pleased to advise you about our product range:

- Glass-lined agitated tanks conforming to DIN 28136
- Specialised agitated tanks for the pharmaceutical industry
- Components for pharmaceutical process engineering
- Agitators and agitating systems for the chemical and pharmaceutical industry
- Polymerisation equipment
- Storage tanks and recipient vessels
- Columns
- Glass-lined heat exchangers
- Measurement and analysis technology
- Accessories

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