

Press Release

Anuga FoodTec 2015

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Compact process valve for the drinks and food industry now available in sizes up to DN100

Hygiene Right Angle Valve with Fully PTFE-Coated Sealing Plug

Currently using the 6020 pneumatic control valve as the basis, Schubert & Salzer has combined the known advantages of the right angle valve for processes in the drinks and food industry with

- **a new sealing concept for the sealing plug and**
- **an expansion of the range with DN50, DN80 and DN100 sizes.**

In addition to the previously-available soft sealing trims complete with separate sealing, these valves with nominal sizes of between DN50 and DN100 are now optionally equipped with a PTFE-coated sealing plug. As a result, gaps in the seating area are minimised, which means that this control valve is designed to meet the highest of hygiene requirements.

Thanks to its full self-emptying capability, the right angle valve is ideally suited for processes with high hygienic requirements. A design without dead spaces as well as CIP cleaning and sterilisation capability and a secure sealing of the product from the atmosphere are all consistently implemented. In the 6020 Schubert & Salzer control valve, this design was consistently optimised for

- the best possible process reliability and
- excellent control accuracy with a setting ratio of 50:1.

As a result, the body of the 6020 sterile value is manufactured by machining pore-free barstock (1.4404) and, depending on the process requirement, the surface is either precision-turned, polished, precision polished or electro-polished.

The 6020 right angle range has previously consisted of the DN15, 25 and 40 nominal sizes and worked up to a nominal pressure of PN16. Schubert & Salzer has now extended this range by the DN50, DN80 and DN100 nominal

sizes and the range now works up to a nominal pressure of PN10, meaning that the advantages of this valve technology can be exploited on an even wider basis.

During the expansion, the design of the valve seat was also changed in terms of an optimisation of the hygiene conditions. In place of a classic seat seal, a metal core is fully coated with PTFE.

By utilising this method, the gaps are further minimised as this method ensures that no separate seat seal needs to be integrated into the trim. This sealing plug coated with PTFE is initially available for hygiene valves in the new DN50, DN80 and DN100 nominal sizes. Consequently, it is possible to adapt the control valve to the process requirements even more accurately.

Reliable actuators and positioners

The valve actuators comprise of compact, easy-to-clean, pneumatic piston and diaphragm actuators that are controlled by a digital positioner mounted in the axial extension. This method ensures that no moving parts whatsoever can be accessed from the outside. Consequently, on-site operation was foregone with this positioner. As a result, hygienically-flawless process conditions can be established and unqualified interventions in the plant are ruled out.

The actuators and positioner bodies are also optionally available in a stainless steel design. IP 65 is the standard. As a result, these right angle valves offer ideal conditions, especially for the drinks and food industry but also for the pharmaceutical, biotechnology and fine chemical industries. The control valves in the new nominal sizes complete with the PTFE-coated plug will be presented for the first time at Anuga FoodTec 2015 in Hall 04.2, Booths C028 D029.

Figure

The Schubert & Salzer right angle valve – here illustrated in the new DN80 nominal size – meets the highest hygiene requirements.



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