Whether PCR, TBR, OTR, BIAS or other tires, the conditions in tire curing presses are extreme. Valves are challenged especially with respect to their service life and reliable functioning. Also their control accuracy plays an important role for precise temperature control. For decades we have been a trusted partner for tire manufacturers and offer customized solutions for your individual application.
On/Off Valves

Angle seat valve 7010 in stainless steel, distinguishes itself by high $C_v$ values at a very compact construction, a variety of possible connections, and very easy maintenance. High-temperature versions, developed especially for tire curing presses, ensure a high degree of tightness and long service life even in hot-water applications up to 220 °C.

Summary of your benefits:

- Long lasting and highly leakproof (especially compared to ball valves, which are typically with a floating ball and which wear the seal with every stroke) up to leakage class VI.
- Very simple maintenance: The valve body can remain installed in the pipeline during valve maintenance. The actuator with including the plug can be easily unscrewed.
- The simple maintenance also allows economic and space-saving welding constructions that prevent leakage at the connections.
- Every part of the valve is available as a replacement part.
- The most compact valve solution on the market.
- Flexible pilot air connection thanks to an actuator bonnet which can rotate 360°.
- Valve position indication possible, even in the "normally open" versions.

In comparison with seat valves, especially of Japanese or Korean manufacturers, the 7010 valves have significantly larger $C_v$ values:

<table>
<thead>
<tr>
<th>Nominal size</th>
<th>Conventional Seat globe valve</th>
<th>Schubert &amp; Salzer 7010 valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN 15</td>
<td>4.0</td>
<td>4.1</td>
</tr>
<tr>
<td>DN 20</td>
<td>6.1</td>
<td>9.3</td>
</tr>
<tr>
<td>DN 25</td>
<td>10.5</td>
<td>17.4 - 18.6*</td>
</tr>
<tr>
<td>DN 32</td>
<td>17.4</td>
<td>24.4 - 27.8*</td>
</tr>
<tr>
<td>DN 40</td>
<td>21.3</td>
<td>34.8 - 40.6*</td>
</tr>
<tr>
<td>DN 50</td>
<td>28.8</td>
<td>46.4 - 63.8*</td>
</tr>
<tr>
<td>DN 65</td>
<td>44.7</td>
<td>92.8</td>
</tr>
</tbody>
</table>

* Depending on the size of the drive.

Thus, not only the nominal sizes of the valves, but also the nominal sizes of the pipes, can be reduced by at least one nominal size. A 7010 valve in nominal size 32 can even replace a conventional valve with a nominal size 50 without reducing the flow rate. The entire steam package is thus more compact and more economical. Also the 3-way valves and even the straight bodied valves of Schubert & Salzer produce advantages in terms of $C_v$ values relative to these conventional solutions.

Alternatively to a conventional solution with individual valves we can also provide manifolds, which save space, simplify maintenance and reduce heat losses.

They will be customised to your heating process, please contact us for detailed discussions.
Control Valves

The unique sliding gate valve of Schubert & Salzer has proven itself as the superior control valve solution in tire curing presses all over the world.

The GS valve product line controls liquid, steam, and gaseous media precisely, quickly and economically.

Summary of your benefits:

• Compact construction and simple installation.
• Very easy maintenance through the simple replacement of the easily accessible disc pair; this reduces service time and down time of the curing press.
• Minimised stocking of spare parts.
• Very high control accuracy through intelligent positioners and quick reaction times due to the short stroke. The accuracy that can be achieved in the temperature control often allows the curing time per tire to be reduced!
• A more compact and integrated positioner requires no additional, remote I/P converter, resulting in no continuous consumption of control air.
• Regulation can be optimised or adjusted by changing the CVS value by means of replacing the fixed disc only.
• The quick opening time allows the time-optimised filling of the bladder.
• Short control paths reduce the internal wear and thus increase the service life.
• Minimised wear in cavitation applications is facilitated through optimised flow guidance.
• A wide range of different pressures can be regulated by the same valve; additional pressure reducers are not required.
• Maintenance-friendly replacement of the integrated positioner, smart diagnostics software in the positioner as a valuable aid for any fault analysis in the control circuit.

Functionality of Sliding Gate Valves:

A sealing plate (2) fixed in the housing (1) perpendicular to the direction of flow has a defined number of transverse slots (3) of the same size. A rotationally fixed disc (4) with the same arrangement of slots is moved vertically and thus changes the flow cross-section. The subsequent pressure difference presses the moving disc (4) onto the fixed disc (2).

Our valves are not only used in tire curing presses, but of course also in the central supply of steam or nitrogen, at the mixer (air regulation for further transport), air conditioning, etc.
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