I Application

The NLF valve is a pneumatically actuated single seat valve designed for assembly at the bottom of the tanks in the dairy, food-processing industries, beverage production, pharmaceutical and fine chemicals industries.

I Operating principle

The seat valves are actuated by a single- or double-acting actuator. The shaft is actuated by the supplied compressed air and opens or closes the valve. Possible configuration of the valve: the valve seat opens into the valve to avoid accidental openings in case of overpressure in the line and to avoid possible contact with the product recovery scrapers.

I Design and features

Total drainage prevents the stagnation of the product. Normally closed valve (closed by spring) – standard version. Normally open valve (opened by spring) by a simple turn of the pneumatic actuator. The valve seat opens into the tank to avoid accidental openings in case of excessive pressure in the tank. 360° adjustable body, even after welding the flange to the tank. Open lantern for visual inspection of the shaft sealing. Easy disassembly by loosening the clamp. Connections: weld (mm or inches).

I Materials

Parts in contact with the product  
AISI 316L

Other stainless steel parts  
AISI 304

Gaskets  
EPDM according to FDA 177.2600

Internal surface finish  
Ra ≤ 0.8 μm

External surface finish  
Bright polish
I Options

Manual actuation.
Steam barrier (if shaft sterilisation is required).
C-TOP control unit.
Jacketed body.
Larger actuator sizes.
Internal surface finish: $Ra \leq 0.5 \mu m$.
Gaskets: NBR or FPM.
Connections: DIN, Clamp, SMS, RJT, FIL-IDF, etc.
Double-acting actuator.
"Twin-Stop" actuator.
External position sensors.

I Technical specifications

<table>
<thead>
<tr>
<th>Available sizes</th>
<th>DN 25 - DN 100</th>
<th>DN 1&quot; - DN 4&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working temperature</td>
<td>-10 °C to +120 °C (EPDM)</td>
<td>14 °F to 248 °F</td>
</tr>
<tr>
<td></td>
<td>+140 °C (SIP, max. 30 min)</td>
<td>284 °F</td>
</tr>
<tr>
<td>Max. working pressure</td>
<td>10 bar</td>
<td>145 PSI</td>
</tr>
<tr>
<td>Compressed air pressure</td>
<td>6-8 bar</td>
<td>87-116 PSI</td>
</tr>
<tr>
<td>Air supply connections</td>
<td>G1/8&quot; (BSP)</td>
<td></td>
</tr>
</tbody>
</table>

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