# WaStop® Inline Check Valve Technical Specification

## Stainless Steel AISI 304/316

### Model no.:**
- WS690-S2-304/316
- WS690-S3-304/316
- WS690-S4-304/316

### Nominal Size:
28

### Pipe:
Stainless Steel AISI 304/316

### Membrane:
Polyurethane

### Fasteners:
Marine grade stainless steel (AISI 316)

## Technical data:

<table>
<thead>
<tr>
<th>Technical data</th>
<th>Soft (S2)</th>
<th>Standard (S3)</th>
<th>Hard (S4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. back pressure*</td>
<td>9.8 ft H₂O</td>
<td>16.4 ft H₂O</td>
<td>26.2 ft H₂O</td>
</tr>
<tr>
<td>Horizontal opening pressure*</td>
<td>8.5 in H₂O</td>
<td>9.8** in H₂O</td>
<td>11** in H₂O</td>
</tr>
<tr>
<td>Horizontal closing pressure*</td>
<td>5.3 in H₂O</td>
<td>6.1** in H₂O</td>
<td>6.9** in H₂O</td>
</tr>
<tr>
<td>Submerged opening pressure*</td>
<td>5.5** in H₂O</td>
<td>6.3** in H₂O</td>
<td>7.1** in H₂O</td>
</tr>
<tr>
<td>Submerged closing pressure*</td>
<td>1.6** in H₂O</td>
<td>1.8** in H₂O</td>
<td>2.4** in H₂O</td>
</tr>
<tr>
<td>Vertical opening pressure*</td>
<td>15.9** in H₂O</td>
<td>17.7** in H₂O</td>
<td>19.6** in H₂O</td>
</tr>
<tr>
<td>Vertical closing pressure*</td>
<td>9.6** in H₂O</td>
<td>10.8** in H₂O</td>
<td>10.8** in H₂O</td>
</tr>
</tbody>
</table>

*) +/- 15% **) Modeled value
- Values measured from bottom of pipe.
- Tests performed at room temperature (61-68°F).

## Max Flow

<table>
<thead>
<tr>
<th>f/s</th>
<th>CPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>24410</td>
</tr>
</tbody>
</table>

- Higher flows requires custom valve, contact Waprot
- Flange installation is highly recommended at flows above 6.5 f/s

## WS690-S Standard

In the submerged case opening pressure [mmH₂O /inH₂O] is the difference between the water level upstream and the water level downstream and in the open-air case to the invert of the pipe. In vertical applications, the vertical opening pressure is measured from the outlet of the WaStop.

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HOLDING BACK
THE FLOOD