



## WaStop® Inline Check Valve Technical Specification Stainless Steel AISI 304/316

|                      |   |                  |                  |
|----------------------|---|------------------|------------------|
| <b>Model no.:</b>    | WS590-S2-304/316                        | WS590-S3-304/316 | WS590-S4-304/316 |
| <b>Nominal Size:</b> | 600 mm                                  |                  |                  |
| <b>Pipe:</b>         | Stainless Steel AISI 304/316            |                  |                  |
| <b>Membrane:</b>     | Polyurethane                            |                  |                  |
| <b>Fasteners:</b>    | Marine grade stainless steel (AISI 316) |                  |                  |

| Technical data:               | Soft (S2)                | Standard (S3)            | Hard (S4)                |
|-------------------------------|--------------------------|--------------------------|--------------------------|
| Max. back pressure*:          | 3 mH <sub>2</sub> O      | 5 mH <sub>2</sub> O      | 8 mH <sub>2</sub> O      |
| Horizontal opening pressure*: | 295 mmH <sub>2</sub> O   | 356** mmH <sub>2</sub> O | 440** mmH <sub>2</sub> O |
| Horizontal closing pressure*: | 208 mmH <sub>2</sub> O   | 247** mmH <sub>2</sub> O | 300** mmH <sub>2</sub> O |
| Submerged opening pressure*:  | 192** mmH <sub>2</sub> O | 221** mmH <sub>2</sub> O | 248** mmH <sub>2</sub> O |
| Submerged closing pressure*:  | 105** mmH <sub>2</sub> O | 120** mmH <sub>2</sub> O | 135** mmH <sub>2</sub> O |
| Vertical opening pressure*:   | 382 mmH <sub>2</sub> O   | 425** mmH <sub>2</sub> O | 467** mmH <sub>2</sub> O |
| Vertical closing pressure*:   | 230** mmH <sub>2</sub> O | 255** mmH <sub>2</sub> O | 281** mmH <sub>2</sub> O |

\*) +/- 15% \*\*) Modeled value

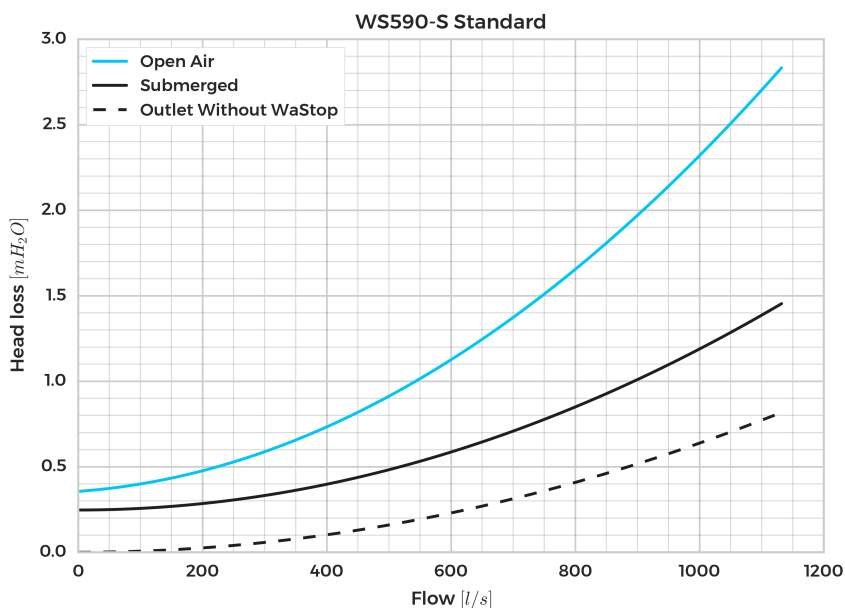
- Values measured from bottom of pipe.

- Tests performed at room temperature (16-20 °C).

| Max Flow | m/s | l/s  |
|----------|-----|------|
|          | 4   | 1132 |

- Higher flows requires custom valve, contact Wapro

- Flange installation is highly recommended at flows above 2 m/s



In the submerged case opening pressure [mmH<sub>2</sub>O /inH<sub>2</sub>O] 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.

