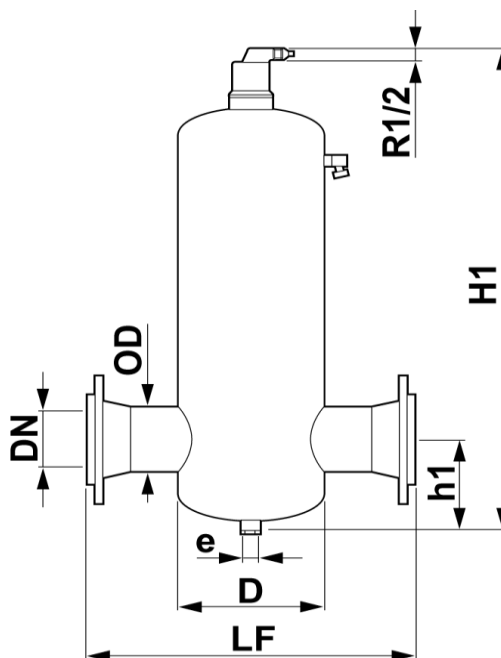


|                                                 |  |                    |                                                                                                      |  |         |
|-------------------------------------------------|--|--------------------|------------------------------------------------------------------------------------------------------|--|---------|
| <b>SPIROTECH SPECIFICATION SHEET</b>            |  |                    | <b>SPIROTECH</b>  |  |         |
| Version 17.10 / BDB                             |  |                    |                                                                                                      |  |         |
| Product: SpiroVent Hi-flow<br>DN 65 Flanged end |  |                    | Type: HA065F                                                                                         |  |         |
| Customer: 1                                     |  |                    |                                                                                                      |  |         |
| Project: 2                                      |  |                    | Date: 2/26/2018                                                                                      |  |         |
| Reference: 3                                    |  |                    |                                                                                                      |  |         |
|                                                 |  |                    |                                                                                                      |  |         |
| <b>Design criteria</b>                          |  |                    | <b>Drawing:</b>                                                                                      |  |         |
| Medium: Water / glycol (max 50%)                |  |                    |                   |  |         |
| Max. flow velocity: 3 m/s                       |  |                    |                                                                                                      |  |         |
| Max. flow rate: 11.0 l/s                        |  |                    |                                                                                                      |  |         |
| Max. pressure: 10 bar-g                         |  |                    |                                                                                                      |  |         |
| Max. temperature: 110 °C                        |  |                    |                                                                                                      |  |         |
| Δp at max. flow: 11.64 kPa                      |  |                    |                                                                                                      |  |         |
| Flow: 1.5 l/s                                   |  |                    |                                                                                                      |  |         |
| Δp at flow: 0.22 kPa                            |  |                    |                                                                                                      |  |         |
| Design standard: EN 13445                       |  |                    |                                                                                                      |  |         |
|                                                 |  |                    |                                                                                                      |  |         |
| <b>Testing and quality assurance</b>            |  |                    |                                                                                                      |  |         |
| Test pressure (bar):                            |  | 7                  |                                                                                                      |  |         |
| Test medium:                                    |  | Air                |                                                                                                      |  |         |
| Test certificate:                               |  | no                 |                                                                                                      |  |         |
| Design and manufacturing acc. 2014/68/EU:       |  | yes                |                                                                                                      |  |         |
| Material certificates (structural parts):       |  | no                 |                                                                                                      |  |         |
| Drawing:                                        |  | no                 |                                                                                                      |  |         |
| Weld procedures:                                |  | no                 |                                                                                                      |  |         |
| Nondestructive Testing (X-ray: 10%):            |  | no                 |                                                                                                      |  |         |
| Notified body inspection:                       |  | no                 |                                                                                                      |  |         |
|                                                 |  |                    |                                                                                                      |  |         |
| <b>Construction materials</b>                   |  |                    | <b>Dimensions:</b>                                                                                   |  |         |
| Body:                                           |  | S235 JR G2 (St.37) | DN                                                                                                   |  | 65 mm   |
| Connections:                                    |  | S235 JR G2 (St.37) | OD                                                                                                   |  | 76.1 mm |
| Fittings:                                       |  | S235 JR G2 (St.37) | H1                                                                                                   |  | 630 mm  |
| Flanges (EN 1092-1 PN16):                       |  | C22.8              | h1                                                                                                   |  | 125 mm  |
| Heads:                                          |  | S235 JR G2 (St.37) | D                                                                                                    |  | 159 mm  |
| Deaeration cap:                                 |  | Brass              | LF                                                                                                   |  | 350 mm  |
| Valve sealing:                                  |  | Viton              | e                                                                                                    |  | ½"      |
| Float:                                          |  | PP                 |                                                                                                      |  |         |
| Spirotube Tube:                                 |  | S235 JR G2 (St.37) |                                                                                                      |  |         |
| Wire:                                           |  | Copper             |                                                                                                      |  |         |
| Solder:                                         |  | Tin(SnCu3)         |                                                                                                      |  |         |
| Paint:                                          |  | Standard           | Volume:                                                                                              |  | 7 ltr   |
| Color:                                          |  | Yellow (RAL 1003)  | Dry weight (approx):                                                                                 |  | 19 kg   |
|                                                 |  |                    | Subject to changes                                                                                   |  |         |