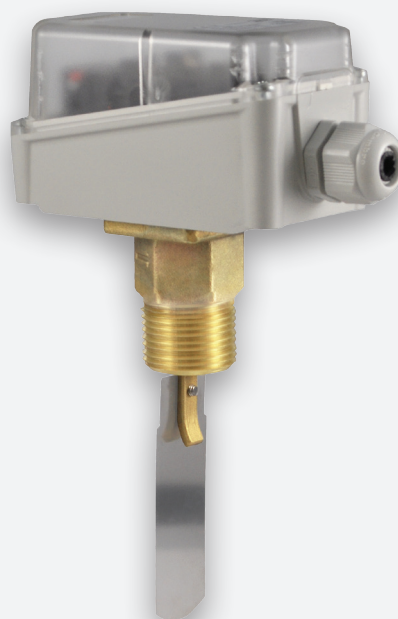


# Paddle flow switches for liquids

## VH 780

- Easy installation through direct installation into existing pipe
- One unit covers a wide range of pipe sizes (DN 32...200)
- Adjustable set point
- Micro switch for high contact rating
- Max. pressure rating 11 bar

**Type VH 780**



| Technical data                             |                                           |
|--------------------------------------------|-------------------------------------------|
| Switching function                         | Change over contact                       |
| Pressure rating                            | Max. 11 bar                               |
| Temperature ranges                         |                                           |
| Medium                                     | -40...120 °C                              |
| Ambient                                    | -40...85 °C (10...90 % rH)                |
| Storage and transportation                 | -40...85 °C (< 95 % rH)                   |
| Electrical data                            |                                           |
| Change over contact<br>max. contact rating | 250 VAC, max. 15 A,<br>8 A inductive load |
| Degree of protection EN 60529              | IP65                                      |
| Protection class EN 60730-1                | Class I                                   |
| Order code                                 |                                           |
|                                            | VH780J411LS20110                          |

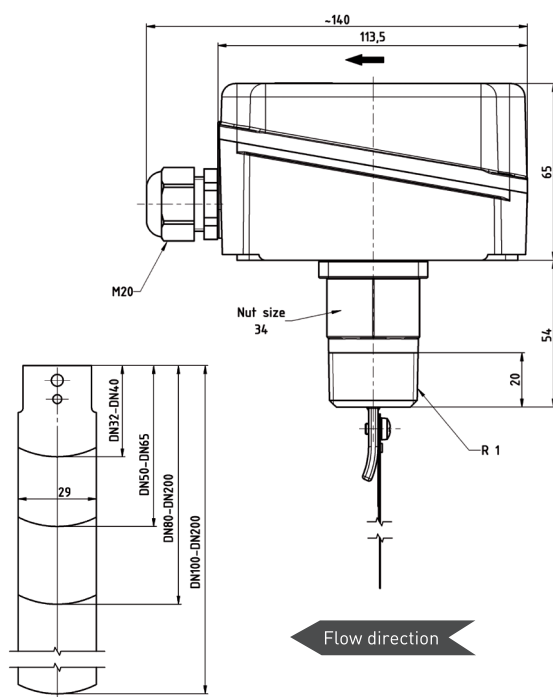
## Setpoint ranges and dimensions

| Pipe size | Paddle to select*   | Set point ranges [m³/h]** |                     | Max. flow rate [m³/h] |
|-----------|---------------------|---------------------------|---------------------|-----------------------|
|           |                     | Increasing flow ON        | Decreasing flow OFF |                       |
| DN 32     | 29 x 34             | 1,3...3,0                 | 0,8...2,8           | 3,6                   |
| DN 40     | 29 x 34             | 1,7...4,0                 | 1,1...3,7           | 4,8                   |
| DN 50     | 29 x 60             | 3,1...6,1                 | 2,2...5,7           | 7,3                   |
| DN 65     | 29 x 60             | 4,0...7,0                 | 2,7...6,5           | 8,4                   |
| DN 80     | 29 x 89             | 6,2...11,4                | 4,3...10,7          | 13,7                  |
| DN 100    | 29 x 167, shortened | 8,0...18,4                | 6,1...17,3          | 22,1                  |
| DN 125    | 29 x 167, shortened | 12,9...26,8               | 9,3...25,2          | 32,2                  |
| DN 150    | 29 x 167, shortened | 16,8...32,7               | 12,3...30,6         | 39,2                  |
| DN 200    | 29 x 167            | 46,5...94,2               | 38,6...90,8         | 113                   |

\* Higher set points selectable by use of smaller paddle sizes.

\*\* Tolerance ±15 %

Test conditions: Water, 20 °C, horizontal pipe



### Materials in contact with fluid

|                   |                        |
|-------------------|------------------------|
| Body              | Brass CW617N           |
| Paddle            | Stainless steel 1.4404 |
| Lever             | Brass CW607N           |
| Teeth lock washer | Stainless steel 1.4301 |
| Fastening screw   | Stainless steel 1.4301 |
| Bellow            | Bronze CW453           |
| Flat gasket       | Betaflex 77            |