

# Float Valves

## Float Valves for installation in tanks NV 94

Compact Stainless Steel Valve



### Technical Data

|                        |                            |
|------------------------|----------------------------|
| Connection G           | 3/8A - 1 1/2A              |
| Nominal Pressure PN    | 16                         |
| Operating Pressure     | 0 - 8 bar                  |
| K <sub>vs</sub> -Value | 0.5 - 21 m <sup>3</sup> /h |
| Temperature            | 300 °C                     |
| Medium                 | liquids                    |

### Description

Float valves automatically control liquid levels in sealed or open (non-pressurised) tanks and vessels without requiring external energy. The float registers the liquid level and directly controls the valve via a lever. A change in the liquid level immediately results in a changed flow volume.

NV 94 is a float valve for horizontal or vertical installation inside a tank as inlet or outlet valve. This valve is made entirely of stainless steel featuring excellent corrosion resistance. The valve cone can be fitted with a soft seal (up to 130 °C) or a metallic seal (up to 300 °C).

When enquiring or ordering please quote the suffix letters given below:

- Z = inlet. Valve closes when float rises
- A = outlet. Valve closes when float drops
- w = horizontal flow
- o = upward flow
- u = downward flow
- r = includes sealed spindle

example: float valve Z/w (inlet valve for horizontal flow).

### Standard

- » all stainless steel construction
- » SC 3 ball float stainless steel

### Options

- » various seal materials suitable for your medium
- » special versions on request

Please state working pressure range when enquiring or ordering.

Operating instructions, know how and safety instructions must be observed. All the pressure has always been indicated as overpressure. We reserve the right to alter technical specifications without notice.



### K<sub>vs</sub>-Values [m<sup>3</sup>/h]

| pressure range<br>bar | nominal diameter G |     |     |     |       |       |
|-----------------------|--------------------|-----|-----|-----|-------|-------|
|                       | 3/8                | 1/2 | 3/4 | 1   | 1 1/4 | 1 1/2 |
| 0 - 2                 | 2                  | 4   | 6   | 14  | 15    | 21    |
| 0 - 4                 | 1.2                | 3   | 4   | 8   | 8.7   | 12    |
| 0 - 8                 | 0.5                | 1.6 | 3   | 4.5 | 4.4   | 6.4   |

### Pressure Ranges [bar]

|       |       |       |
|-------|-------|-------|
| 0 - 2 | 0 - 4 | 0 - 8 |
|-------|-------|-------|

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### Materials

|            |  |
|------------|--|
| Body       | CrNiMo-steel                             |
| Cone       | CrNiMo-steel                             |
| Seat       | CrNiMo-steel                             |
| Valve Seal | EPDM up to 130 °C, metallic up to 300 °C |
| Float      | CrNiMo-steel                             |

### Dimensions [mm]

| size | nominal diameter G...A |      |      |      |       |       |
|------|------------------------|------|------|------|-------|-------|
|      | 3/8                    | 1/2  | 3/4  | 1    | 1 1/4 | 1 1/2 |
| B    | 9                      | 13.5 | 15.5 | 19.5 | 24    | 26    |
| C    | 56                     | 75   | 75   | 97   | 110   | 120   |
| D    | 12                     | 16   | 16   | 20   | 22    | 25    |
| E    | 34                     | 42   | 42   | 55   | 63    | 63    |
| F    | 110                    | 165  | 190  | 225  | 285   | 320   |
| G    | 43                     | 57   | 57   | 72   | 80    | 90    |

### Weights [kg]

| nominal diameter G...A |     |     |   |       |       |  |
|------------------------|-----|-----|---|-------|-------|--|
| 3/8                    | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 |  |
| 0.6                    | 0.9 | 1.3 | 2 | 3.5   | 4.5   |  |

### Dimensions Ball Float SC 3 [ø mm]

| nominal diameter G ... A |     |     |     |       |       |  |
|--------------------------|-----|-----|-----|-------|-------|--|
| 3/8                      | 1/2 | 3/4 | 1   | 1 1/4 | 1 1/2 |  |
| 110                      | 130 | 150 | 180 | 200   | 220   |  |

Special designs on request.

The pressure has always been indicated as overpressure.

Mankenberg reserves the right to alter or improve the designs or specifications of the products described herein without notice.

### Dimensional Drawing

