

Float valves

Float valves NV 98

Universal valve

Technical Data

| | |
|-----------------------|----------------------------|
| Connection DN | 40 - 80 |
| Connection G | 3/8A - 1 1/2A |
| Nominal pressure PN | 16 |
| Operating pressure | 0 - 8 bar |
| K _{vs} value | 0.5 - 82 m ³ /h |
| Temperature | 130 °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 98 is a float valve for horizontal installation inside a tank as inlet valve with outlet at the bottom. This valve is made entirely of stainless steel featuring excellent corrosion resistance. NV 98 R (spigot connection) is fitted with a ball float, NV 98 F (flange connection) is fitted with a cylindrical float that is adjustable on its float bar. NV 98 FP is fitted with a parallel float guide which prevents oscillation of the float. The valve cone is fitted with a soft seal.

The following note applies to float valves fitted with float bars: If the liquid level is below the float bar i.e. if the float points downwards, a guide for the float bar should be installed.

Standard

- » All stainless steel construction
- » NV 98 R with ball float SC 3
- » NV 98 F with cylindrical float SC 8
- » NV 98FP with cylindrical float SC 8 and float bar parallel guide

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. The pressure has always been indicated as overpressure. We reserve the right to alter technical specifications without notice.



illustration shows NV 98FP

K_{vs}-Values [m³/h]

| pressure range bar | nominal diameter G...A | | | | | |
|-----------------------|------------------------|-----|-----|---|-------|-------|
| | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| 0 - 2 | 1.2 | 2.5 | 6 | 8 | 13.3 | 17.8 |
| 0 - 4 | 1.2 | 2.5 | 3.5 | 6 | 7.9 | 13.3 |
| 0 - 8 | 0.5 | 1.2 | 2.5 | 4 | 5 | 6.4 |

K_{vs}-Values [m³/h]

| pressure range bar | nominal diameter DN | | | |
|-----------------------|---------------------|----|----|----|
| | 40 | 50 | 65 | 80 |
| 0 - 8 | 20 | 32 | 50 | 82 |

Pressure Ranges

| nom. diam. | pressure range[bar] | | |
|------------|---------------------|-------|-------|
| G 3/8 - 1 | 0 - 2 | 0 - 4 | 0 - 8 |
| DN 40 - 80 | 0 - 8 | | |

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Materials

| | |
|------------|-------------------------------|
| Body | CrNiMo-steel |
| Cone | CrNiMo-steel |
| Seat | CrNiMo-steel |
| Valve Seal | G 3/8 FKM, G 1/2 - 1 1/2 EPDM |
| Float | CrNiMo-steel |

Dimensions [mm] NV 98 R

| size | nominal diameter G...A | | | | | |
|------|------------------------|-------|-------|-------|-------|-------|
| | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| A | 40 | 40 | 40 | 45 | 47 | 47 |
| B | 60 | 60 | 60 | 65 | 72 | 77 |
| C | 85 | 85 | 85 | 90 | 96 | 101 |
| D | ø 60 | ø 60 | ø 60 | ø 60 | ø 60 | ø 60 |
| E | 110 | 110 | 110 | 115 | 123 | 128 |
| F | 16 | 16 | 20 | 20 | 23 | 25 |
| G | 3/8 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 |
| H | 200 | 200 | 200 | 200 | 200 | 200 |
| I | 125 | 135 | 155 | 175 | 205 | 225 |
| K | ø 100 | ø 110 | ø 130 | ø 150 | ø 180 | ø 200 |

Weights [kg] NV 98 R

| nominal diameter G ... A | | | | | | |
|--------------------------|-----|-----|-----|-------|-------|--|
| 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | |
| 0.9 | 0.9 | 1.4 | 1.5 | 2.7 | 3 | |

Dimensions [mm] NV 98 F + NV 98 FP

| size | nominal diameter DN | | | |
|------|---------------------|-------|-------|-------|
| | 40 | 50 | 65 | 80 |
| A | 85 | 95 | 95 | 110 |
| B | 60 | 75 | 75 | 80 |
| C | 105 | 125 | 125 | 140 |
| D | ø 70 | ø 90 | ø 90 | ø 125 |
| E | 145 | 165 | 165 | 180 |
| F | ø 43 | ø 53 | ø 64 | ø 80 |
| H | 330 | 330 | 440 | 530 |
| I | 975 | 970 | 965 | 965 |
| K | ø 280 | ø 305 | ø 340 | ø 380 |
| L | 280 | 305 | 340 | 380 |
| M | 55 | 55 | 80 | 80 |

Weights [kg] NV 98 F + NV 98 FP

| nominal diameter DN | | | | |
|---------------------|-----|------|------|--|
| 40 | 50 | 65 | 80 | |
| 6.5 | 9.5 | 12.5 | 13.5 | |

Customs Tariff Number

84818059

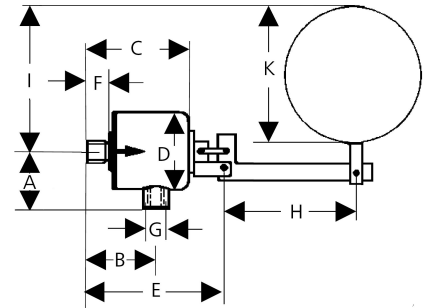
Special designs on request.

The pressure has always been indicated as overpressure.

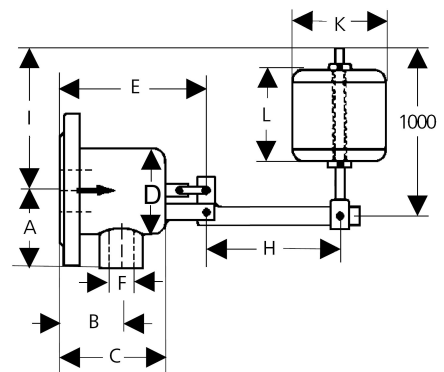
Mankenberg reserves the right to alter or improve the designs or specifications of the products described herein without notice.

Dimensional Drawing

NV 98 RZ/u



NV 98 FZ/u



NV 98 FPZ/u

