

# Float Valves

## Float Valves for external installation on tanks NV 55



Level Regulating Valve

### Technical Data

Connection DN	15 - 100
Nominal Pressure PN	16 - 40
Operating Pressure	0 - 4 bar
K <sub>vs</sub> -Value	2.6 - 80 m <sup>3</sup> /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 55 is a pipeline valve with tank connecting flange for vertical flow. The standard soft seal ensures perfect sealing of the valve.

The valves are fitted with a float bar on which a float featuring an inner tube is mounted (cylindrical float SC 8). By changing the position of the float on the bar the required liquid level is infinitely variable.

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.

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

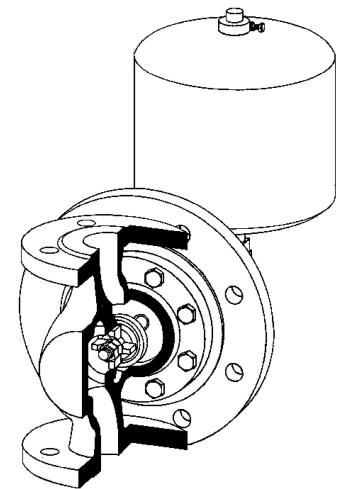
- » tank connecting flange
- » float bar stainless steel
- » cylindrical float SC 8 stainless steel

### Options

- » rubber or plastic coating for corrosive media
- » various seal materials suitable for your medium
- » spindle sealed against the tank (for example with Rießler plants)
- » 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.



### Pressure Ranges [bar] und K<sub>vs</sub>-Values [m<sup>3</sup>/h]

pressure range	nominal diameter DN								
	15	20	25	32	40	50	65	80	100
0 - 1	2.6	3.5	3.5	5.7	7.6	15	27	47	80
0 - 4	2.6	3.5	3.5	5.7	7.6	7.6	15	27	47

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### Materials

Body	PN 16	up to DN 25 grey cast iron from DN 32 spheroidal cast iron
	PN 25 - 40	cast steel
	PN 16 - 40	optional CrNiMo-steel *
Cone and Seat	chromium steel optional CrNiMo-steel	
Cone Guide	Rg optional CrNiMo-steel	
Valve Seal	EPDM	
Linkage	steel zinced or steel, optional CrNiMo-steel	

\* up to DN 100 made of CrNiMo-steel use NV 67e

### Dimensions [mm] and Weights [kg] PN 10/16\*

size	nominal diameter DN								
	15	20	25	32	40	50	65	80	100
A	130	150	160	180	200	230	290	310	350
B	180	180	180	200	200	200	300	300	300
C	55	55	55	125	125	125	105	105	105
D	95	95	95	115	115	115	175	175	175
E	210	210	210	280	280	280	420	420	420
F	30	30	30	40	40	40	60	60	60
H	100	100	100	125	125	125	200	200	200
kg	10	11	12	19	21	24	45	53	65

\* PN 25/40 on request

### Necessary Cylindrical Float $\varnothing$ SC 8 [mm] ( $\varnothing$ = height)\*

pressure range	nominal diameter DN									
	bar	15	20	25	32	40	50	65	80	100
0 - 1	200	200	200	200	200	200	240	280	280	305
0 - 4	240	240	240	240	280	280	305	340	340	420

\*dimensions and weights see sheet no. SC 2.1.111.1

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

