

Float Valves

Float Valves for external installation on tanks NV 55e



Level Regulating Valve with Release

Technical Data

Connection DN	15 - 150
Nominal Pressure PN	16 - 40
Operating Pressure	0 - 16 bar
K _{vs} -Value	4 - 160 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 55e is a pipeline valve complete with tank connecting flange for vertical flow. The valve cone is fitted with a soft seal.

The valves are fitted with a float bar on which a float featuring an inner tube is mounted. 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

example: float valve Z/o (inlet valve for vertical flow upwards)

Standard

- » float bar stainless steel
- » cylindrical float SR 8 stainless steel
- » stem seal to the reservoir

Options

- » rubber or plastic coating for corrosive media
- » various seal materials suitable for your medium
- » special versions on request

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_{vs}-Values [m³/h]

nom. diam. DN	15	20	25	40	50
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K _{vs} -value m ³ /h	4	5	6	20	32
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K_{vs}-Values [m³/h]

nom. diam. DN	65	80	100	125	150
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K _{vs} -value m ³ /h	50	80	100	140	160
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Materials	
Body	cast steel optional CrNiMo-steel
Cone and Seat	grey cast iron, chromium steel
Piston and Spindle	chromium steel optional CrNiMo-steel
Valve Seal	EPDM
Linkage	steel zincd or steel
Float Rod	CrNiMo-steel
Float	CrNiMo-steel

Dimensions [mm] and Weights [kg] PN 16*										
size	nominal diameter DN									
	15	20	25	40	50	65	80	100	125	150
A	130	150	160	200	230	290	310	350	400	480
B	180	180	180	200	200	300	300	300	340	410
C	55	55	55	125	125	105	105	105	185	200
D	95	95	95	115	115	175	175	175	235	255
E	210	210	210	280	280	420	420	420	420	490
F	30	30	30	40	40	60	60	60	60	70
H	100	100	100	125	125	200	200	200	250	250

Weights without float										
kg	10	11	12	21	24	45	53	65	103	133

* PN 25/40 on request

Dimensions Cylindrical Float SR 8 [mm] (ø = Höhe) *										
nom. diam. DN	15	20	25	40	50	65	80	100	125	150
float ø mm	200	200	200	280	280	305	305	305	340	340

* weights see sheet SR 2.1....

Customs Tariff Number
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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

