

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
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 (cylindrical float SR 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

o = upward flow

u = downward flow

r = includes sealed spindle

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

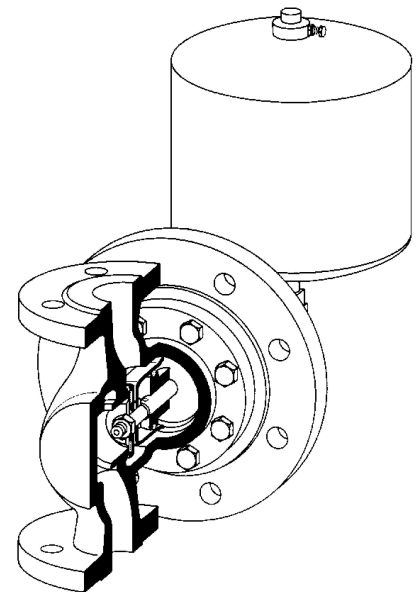
Standard

- » float bar stainless steel
- » cylindrical float SR 8 stainless steel

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
K _{vs} -value m ³ /h	4	5	6	20	32

K_{vs}-Values [m³/h]

nom. diam. DN	65	80	100	125	150
K _{vs} -value m ³ /h	50	80	100	140	160

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Materials		
Body	PN 16	up to DN 25 grey cast iron from DN 40 spheroidal cast iron
	PN 25/40	cast steel
Cone and Seat	grey cast iron, chromium steel	
Piston and Spindle	chromium steel optional CrNiMo-steel	
Valve Seal	EPDM	
Linkage	steel zinced 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

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

*dimensions and weights see sheet SR 2.1.091.1

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

