

Float Valves

Float Valves for pipelines NV 16e

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 16e is a pipeline valve for horizontal or 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 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

- » float bar 1m length of stainless steel
- » cylindrical float SC 8 stainless steel

Options

- » float bar in special length
- » 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, CR-steel	
Piston and Spindle	chromium steel optional CrNiMo-steel	
Valve Seal	EPDM	
Linkage	steel zinced or steel	
Flot 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	175	175	175	195	195	290	290	290	325	400
C	55	55	55	125	125	105	105	105	185	200
D	360	360	360	480	480	640	640	640	760	895
E	270	270	270	360	360	480	480	480	570	675
F	315	315	315	420	420	560	560	560	665	785
G	45	45	45	60	60	80	80	80	95	110
weights without float										
kg	8	9	10	17.5	22.5	44.5	52.5	64.5	93	123

* PN 25/40 on request

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

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 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

