

# Float Valves

## Float Valves for pipelines NV 16

Cast Steel Valve for High Flow Rates



### 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 16 is a pipeline valve for horizontal or 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 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
  - 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 SR 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

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] and K<sub>vs</sub>-Values [m<sup>3</sup>/h]

press. range bar	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

# Float Valves

## Float Valves for pipelines NV 16

Cast Steel Valve for High Flow Rates



### 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	Cr-steel optional CrNiMo-steel	
Cone Guide	Rg optional CrNiMo-steel	
Valve Seal	EPDM	
Linkage	steel zinced or steel, optional CrNiMo-steel	
Float Rod	CrNiMo-steel	
Float	CrNiMo-steel	

\* up to DN 100 made of stainless steel use NV 66e

### 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	175	175	175	195	195	195	290	290	290
C	55	55	55	125	125	125	105	105	105
D	360	360	360	480	480	480	640	640	640
E	270	270	270	360	360	360	480	480	480
F	315	315	315	420	420	420	560	560	560
G	45	45	45	60	60	60	80	80	80
kg	6	7	8	11	14	19	40	48	60

\*PN 25/40 on request

### NV 16 necessary Cylindrical Float $\varnothing$ SR 8 [mm] ( $\varnothing$ = height)\*

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

\*dimension and weights see sheet no. SR/2.1.041.1

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

