Float Valves

Float Valves for Installation in Tanks NV 93

Compact Stainless Steel Valve with Flange Connection

Technical Data

Connection DN	15 - 80
Nominal Pressure PN	16
Operating Pressure	0 - 8 bar
K_{vs}-Value	16 - 81 m^3/h
Temperature	300 °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 93 is a float valve for horizontal or vertical installation inside a tank as inlet or outlet valve. This valve is made entirely of stainless steel featuring excellent corrosion resistance. The valve cone can be fitted with a soft seal (up to 130 °C) or a metallic seal (up to 300 °C).

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

» All stainless steel construction
» Connection flange according to EN 1092-1
» SC 3 ball float stainless steel

Options

» Various seal materials suitable for your medium
» Special connections: ANSI or JIS flanges, other connections on request
» 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.

K_{vs} Values [m^3/h]

pressure range bar	nominal diameterDN							
	15	20	25	32	40	50	65	80
0 - 2	4	6	14	15	21	35	57	81
0 - 4	3	4	8	8.7	12	20	35	49
0 - 8	1.6	3	4.5	4.4	6.4	10	17	28

Operating Pressure Ranges [bar]

0 - 2	0 - 4	0 - 8

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Materials	
Body	CrNiMo-steel
Cone	CrNiMo-steel
Seat	CrNiMo-steel
Valve Seal	EPDM up to 130 °C, metallic up to 300 °C
Float	CrNiMo-steel

Dimensions [mm]								
size	nominal diameter DN							
	15	20	25	32	40	50	65	80
B	13.5	15.5	19.5	24	26	31	39.5	46
C	83	87	76	87	90	100	130	132
E	42	42	55	63	63	93	93	121
F	165	190	225	285	320	380	480	553
G	65	69	51	57	60	65	84	86

Weights [kg]							
nominal diameter DN							
15	20	25	32	40	50	65	80
2	2.5	2.8	5.5	6.5	9	12	15

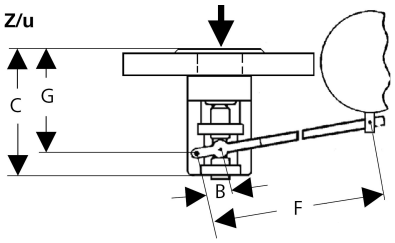
Dimensions Ball Float SC 3 [ø mm]							
nominal diameter DN							
15	20	25	32	40	50	65	80
130	150	180	200	220	250	280	320

Customs Tariff Number
84818059

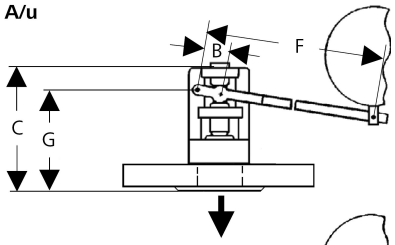
Special designs on request.
The pressure has always been indicated as overpressure.
Mankenberg reserves the right to alter or improve the designs or specifications of the products described herein without notice.

Dimensional Drawing

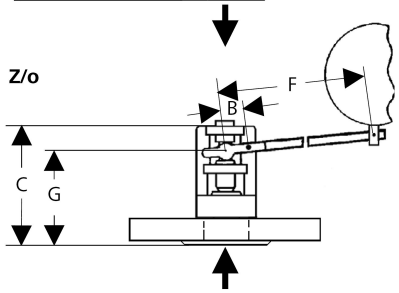
Z/u



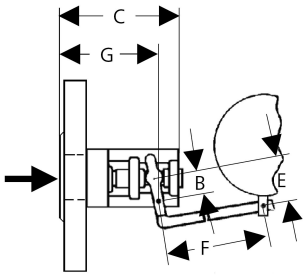
A/u



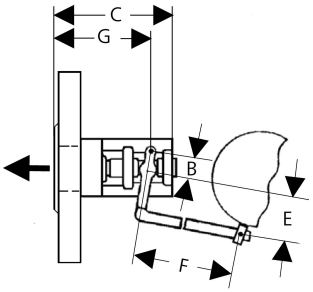
Z/o



Z/w



A/w



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