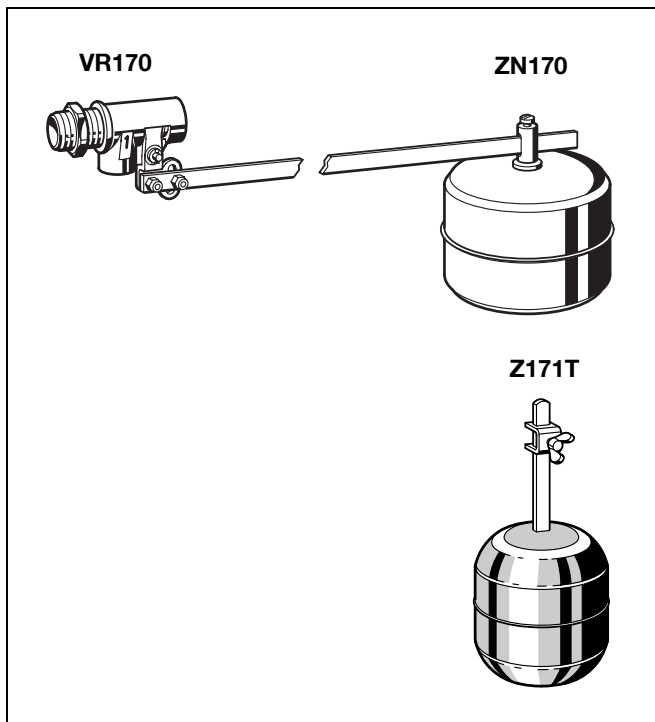


VR170, ZN170, Z171T

Float valve for water storage tanks with option of stainless steel or plastics floats

Product specification sheet



Construction

The float valve comprises:

- Housing
- Piston
- Lever arm
- Float

Materials

- Brass housing (1/2" to 2") or red bronze (2 1/2")
- Brass piston
- Brass lever arm (1/2" to 1") or stainless steel (1 1/4" to 2 1/2")
- Plastics or stainless steel float
- NBR seals

Application

Float valves of this type regulate a fluid level in vented open or closed storage vessels or can be used for filling of water supply storage tanks. Within the scope of their specification they can be used for industrial or commercial installations or also for public water supply systems. A soft seat seal provides positive shutoff, even with fluctuating supply pressure.

Special Features

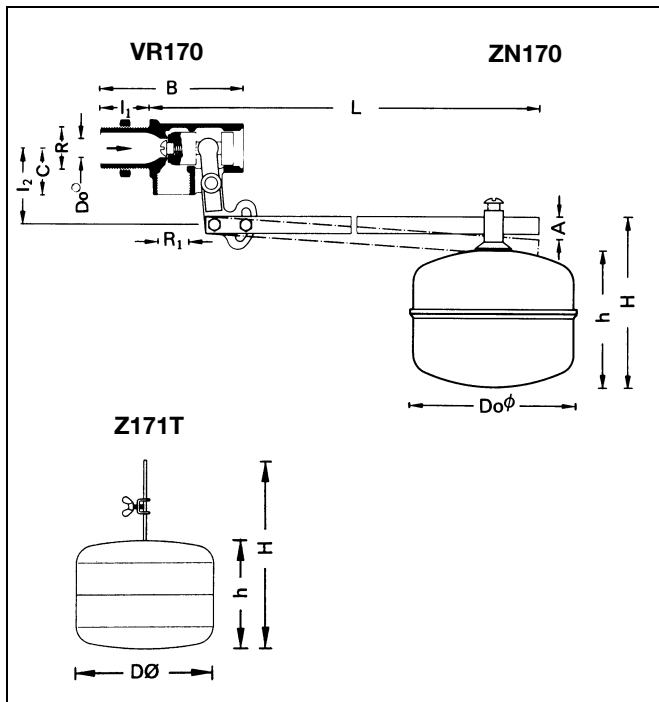
- Available with plastics or stainless steel floats
- Float can be fitted horizontally or vertically
- Open construction design
- External thread connection to DIN 228
- High flow capacity
- Seat seal and piston replaceable
- Lever arm can be shortened where supply pressure is low

Range of Application

Medium	Water and neutral liquids
Installation	Horizontally on water storage vessels

Technical Data

Max. operating temperature	65 °C with plastics float 90 °C with stainless steel float
Max. operating pressure	6.0 bar
sure	8.0 bar with stainless steel float of next larger size
Connection size	R1/2" - R2 1/2"



Method of Operation

Float valves work in conjunction with floats to control the level of liquids in containers. The float is at the level of the liquid in the container and acts directly on the lever arm of the float valve. A variation in liquid level immediately causes a change in the flow rate through the float valve.

Options

VR170- ... A= Standard version

ZN170- ... A= Stainless steel float, for VR170- ... A

Connection size

Bestellbeispiel

Z171T-1/2A= Plastics float, for VR170-1/2A to 1A

Z171T-11/4A = Plastics float, for VR170-11/4A to 2A

Float valve VR170

Connection size	R	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"
Outlet	R1	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Total weight	kg	1.0	1.1	1.3	2.0	2.6	3.8	5.3
Dimensions	(mm)							
	∅ D ₀	9	12	15	20	25	30	35
	L	600	610	720	730	890	900	1150
	A	120	130	135	180	315	325	430
	B	90	100	110	130	150	165	185
	C	30	30	37	44	50	55	62
	l ₁	30	35	38	45	50	50	55
	l ₂	54	54	54	66	66	78	78
Lever arm	BxTxL	15x6x570	15x6x570	15x6x680	20x6x680	20x6x825	20x6x825	20x8x1060
k _{VS} -value	m ³ /h	2	3.6	5.5	9.4	13	17.5	21

Stainless steel float ZN170

Connection size	R	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Weight	kg	0.4	0.5	0.7	0.8	1.0	1.2	1.2	1.4
Dimensions	(mm)								
	∅ D ₀	153	153	183	183	233	233	310	330
	H	163	178	188	225	225	268	245	245
	h	125	140	150	180	180	220	200	200
Lift	approx. kg	1.5	1.7	2.8	3.5	5.0	6.5	8.5	11.5

Plastics float Z171T

Connection size	R	For 1/2" 3/4" 1" float valves	For 1 1/4" 1 1/2" 2" float valves
Weight	kg	0.2	0.4
Dimensions	(mm)		
	D ₀	130	200
	H	248	278
	h	130	160
Lift	approx. kg	1.2	3.5

* Valve connection 1 1/2" to 5 bar and

** Valve connection 2" to 3 bar operating pressures

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