Braukmann
VR170, ZN170, Z171T

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

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 shut-off, 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
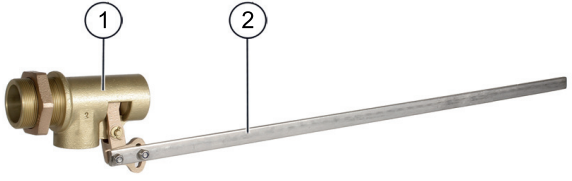- Lever arm can be shortened where supply pressure is low

TECHNICAL DATA

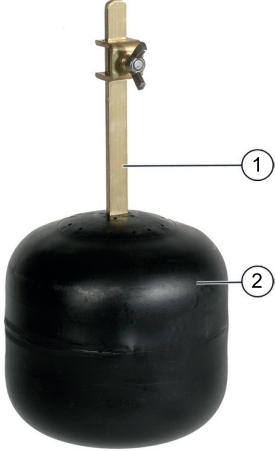| Media	
Medium:	Water and neutral liquids
Connections/Sizes	
Connection size:	$R^1/_2$" – $R2^1/_2$"
Pressure values	
Max. operating pressure:	6.0 bar 8.0 bar with stainless steel float of next
Operating temperatures	
Max. operating temperature medium:	65 °C with plastics float 90 °C with stainless steel float
Specifications	
Installation position:	Horizontally on water storage vessel

CONSTRUCTION

Float valve VR170

Overview		Components	Materials
	1	Housing	Brass ($1/2$" to 2") or red bronze ($2\,1/2$")
	2	Lever arm	Brass ($1/2$" to 1") or stainless steel ($1\,1/4$" to $2\,1/2$")
		Not depicted components:	
		Piston	Brass
		Seals	NBR

Stainless steel float ZN170

Overview		Components	Materials
	1	Float	Stainless steel

Product Specification Sheet • ENOH-1322GE23 R0420 • Subject to change

Plastics float Z171T

Overview	Components		Materials
	1 Piston		Brass
	2 Float		Plastic

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.

TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	5 °C
Max. ambient temperature:	55 °C
Min. ambient relative humidity:	25 % *
Max. ambient relative humidity:	85 % *

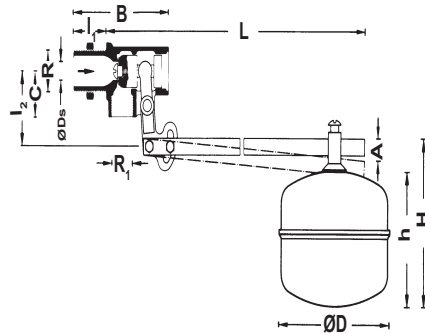*non condensing

TECHNICAL CHARACTERISTICS

kvs–Values

Float valve VR170

Connection sizes:	$^1/_2$"	$^3/_4$"	1"	$1^1/_4$"	$1^1/_2$"	2"	$2^1/_2$"
k_{vs}-value (m^3/h):	2.0	3.6	5.5	9.4	13.0	17.5	21.0

DIMENSIONS

Float valve VR170

Overview

Parameter		Values						
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"
Weight:	kg	1.0	1.1	1.3	2.0	2.6	3.8	5.3
Dimensions:	ØD	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

Note: All dimensions in mm unless stated otherwise.

Stainless steel float ZN170

Overview
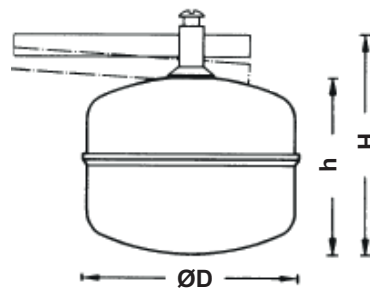
Parameter		Values							
Connection size:	R	$^1/_2$"	$^3/_4$"	1"	$1^1/_4$"	$1^1/_2$"	2"	$2^1/_2$"	3"
Weight:	kg	0.4	0.5	0.7	0.8	1.0	1.2	1.2	1.4
Dimensions:	ØD	150	150	180	180	230	230	245	280
	H	146	161	171	206	206	246	271	306
	h	125	140	150	180	180	220	245	280
Lift:	kg	1.5	1.7	2.8	3.5	5.0	6.5	8.5	11.5

Note: All dimensions in mm unless stated otherwise.

Product Specification Sheet • EN0H-1322GE23 R0420 • Subject to change

Plastics float Z171T

Overview
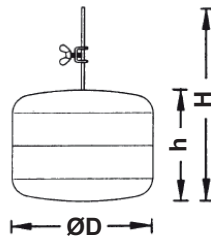
Parameter			Values	
Connection size:	R		For $^1/_2$", $^3/_4$", 1" float valves	For $1^1/_4$", $1^1/_2$"*, 2"** float valve
Weight:	kg		0.2	0.4
Dimensions:	ØD		130	200
	H		248	278
	h		130	160
Lift:	kg		1.2	3.5

* Valve connection $1^1/_2$" to 5 bar and

** Valve connection 2" to 3 bar operating pressure

Note: All dimensions in mm unless stated otherwise.

ORDERING INFORMATION

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

Options

The valve is available in the following sizes: R$^1/_2$", R$^3/_4$", R1", R$1^1/_4$", R$1^1/_2$", R2" and R$2^1/_2$"

• standard

– not available

		VR170-...A	ZN170-...A	Z171T-...A
Connection type:	Standard version	•	–	–
	Stainless Steel float, for VR170-...A	–	•	–
	Plastic float, for VR170-...A	–	–	•

Note: ... = space holder for connection size

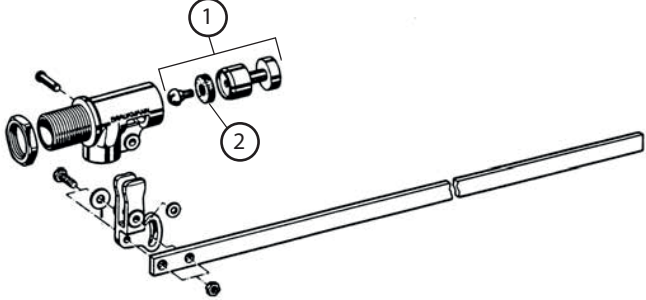Note: Ordering number example for R1" and type A valve: VR170-1A

Note: Order Example:
Z171T-$^1/_2$= Plastics float, for VR170 - $^1/_2$A to 1A
Z171T -$1^1/_4$ = Plastics float, for VR170-$1^1/_4$A to 2A

Spare Parts

Float valve VR170, from 1949 onwards

Overview		Description	Dimension	Part No.
		1 Piston complete		
			$1/2$"	0900401
			$3/4$"	0900402
			1"	0900403
			$1^1/_4$"	0900404
			$1^1/_2$"	0900405
			2"	0900406
			$2^1/_2$"	0900407
		2 Sealing ring single		
			$1/2$"	2657800
			$3/4$"	2657800
			1"	2658000
			$1^1/_4$"	2658100
			$1^1/_2$"	2658200
			2"	2658300
			$2^1/_2$"	2658400

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