

 *Aliaxis*



**VZ DN 10÷50**

PVC-U

Foot valve

# VZ DN 10÷50

The VZ foot valve allows the passage of fluid in one direction only.

## FOOT VALVE

- Connection system for solvent weld and threaded joints
- **No metal parts in contact with the fluid**
- **Piston with incorporated counterweight** able to work with high intensity fluid
- Limited pressure loss. Only minimum back pressure is required for the hermetic seal
- **Valve material compatibility** (PVC-U) with water, drinking water and other food substance conveyance according to **current regulations**
- Can be maintained with the valve body installed

Technical specifications	
<b>Construction</b>	Foot valve
<b>Size range</b>	DN 10 ÷ 50
<b>Nominal pressure</b>	PN 16 with water at 20 °C
<b>Temperature range</b>	0 °C ÷ 60 °C
<b>Coupling standards</b>	<b>Solvent welding:</b> EN ISO 1452, EN ISO 15493, BS 4346-1, DIN 8063, NF T54-028. Can be coupled to pipes according to EN ISO 1452, EN ISO 15493, DIN 8062, NF T54-016. <b>Thread:</b> ISO 228-1, DIN 2999.
<b>Reference standards</b>	<b>Construction criteria:</b> EN ISO 16137 EN ISO 1452, EN ISO 15493 <b>Test methods and requirements:</b> ISO 9393 <b>Installation criteria:</b> DVS 2204, DVS 2221, UNI 11242
<b>Valve material</b>	PVC-U
<b>Seal material</b>	EPDM

# TECHNICAL DATA

## PRESSURE VARIATION ACCORDING TO TEMPERATURE

For water and non-hazardous fluids with regard to which the material is classified as CHEMICALLY RESISTANT. In other cases, a reduction of the nominal pressure PN is required. (25 years with safety factor)



## MINIMUM PRESSURE REQUIRED TO LIFT THE PISTON

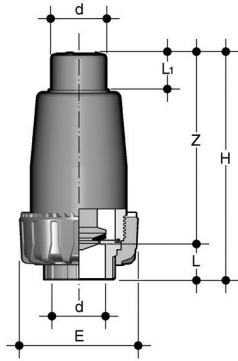
DN	10	15	20	25	32	40	50
bar	0,008	0,008	0,009	0,014	0,017	0,018	0,021

## MINIMUM SEALING PRESSURE (PISTON IN CLOSED POSITION)

DN	10	15	20	25	32	40	50
mm H <sub>2</sub> O	150	150	200	350	350	350	350

The figures refer to the seals that are not worn.

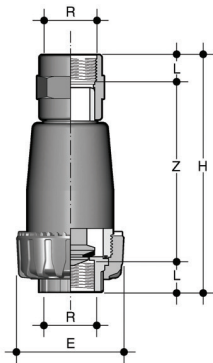
# DIMENSIONS



## VZIV

Foot valve with male ends for solvent welding, metric series

d	DN	PN	E	H	L	L <sub>1</sub>	Z	g	Code
16	10	16	55	101	14	15	87	105	VZIV016E
20	15	16	55	103	16	18	87	120	VZIV020E
25	20	16	66	125	19	20	106	210	VZIV025E
32	25	16	75	150	22	24	128	350	VZIV032E
40	32	16	87	171	26	28	145	560	VZIV040E
50	40	16	100	187	31	34	156	760	VZIV050E
63	50	16	122	223	38	41	185	1340	VZIV063E



## VZFV

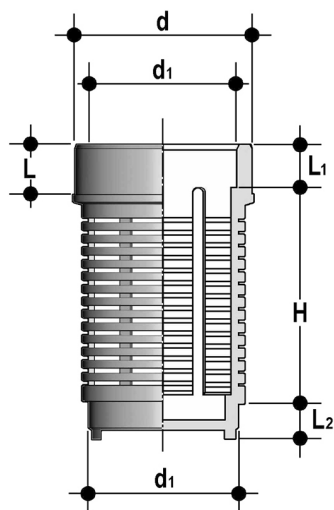
Foot valve with BSP threaded female ends

R	DN	PN	E	H	L	Z	g	Code
1/2"	15	16	55	124	15	94	135	VZFV012E
3/4"	20	16	66	149	16,3	116,4	230	VZFV034E
1	25	16	75	175	19,1	136,8	390	VZFV100E
1" 1/4	32	16	87	200	21,4	157,2	620	VZFV114E
1" 1/2	40	16	100	209	21,4	166,2	860	VZFV112E
2	50	16	122	248	25,7	196,6	1520	VZFV200E

# ACCESSORIES

## SZIV

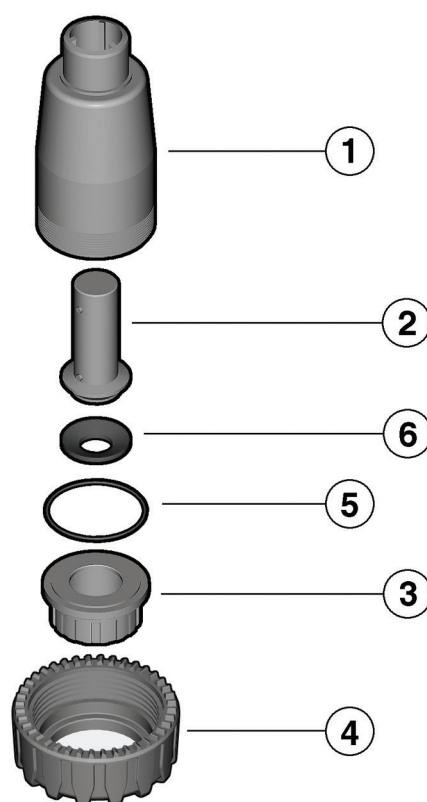
Suction strainer with male and female ends for solvent welding to foot valve VZ



d <sub>1</sub>	d	H	L	L <sub>1</sub>	L <sub>2</sub>	Code
16	20	34,5	8	7,5	6,5	SZIV016
20	25	44	9,5	8,5	7,5	SZIV020
25	32	57	11	9,5	8,5	SZIV025
32	40	67	13	11	10	SZIV032
40	50	58,5	15,5	13	11,5	SZIV040
50	63	77,5	19	15	13	SZIV050
63	75	93,5	22	19	15,5	SZIV063

# COMPONENTS

## EXPLODED VIEW



- 1 Body (PVC-U - 1)
- 2 Piston (PVC-U - 1)

- 3 End connector (PVC-U - 1)
- 4 Union nut (PVC-U - 1)

- 5 O-Ring (EPDM - 1)\*
- 6 Piston gasket (EPDM - 1)\*

\* Spare parts  
The material of the component and the quantity supplied are indicated between brackets

## DISASSEMBLY

- 1) Isolate the valve from the fluid and empty the entire line upstream.
- 2) Unscrew the union nut (4).
- 3) Remove the end connector (3) and O-ring (5).
- 4) Remove the piston (2) and relative gasket (6).

## ASSEMBLY

- 1) Position the O-ring (5) and piston gasket (6) in their seatings.
- 2) Insert the piston (2) in the body (1).
- 3) Position the end connector (3).
- 4) Tighten the union nut (4).



**Note:** during assembly operations, it is advisable to lubricate the rubber seals. Mineral oils are not recommended for this task as they react aggressively with EPDM rubber.

# INSTALLATION

The FIP foot valve must always be installed in a vertical position with the union nut at the bottom, as shown in fig.1.

