



ZFV is a series of 2 and 3-way cast iron flanged valves intended for use in heating and ventilation systems. Suitable for hot and cold water.

- * Sizes from DN65 up to DN150
- * Kv value 63...550
- * Differential pressure 0.15...0.35 MPa
- * Pressure rating PN16
- * Fluid temperature 2...95°C

Function

The valve series ZFV is intended for use together with ZVA and ZEA actuators for control of cold and hot water in HVAC applications

The 3-way valve is suitable to use as a mixing valve.

Function

2-way valve:

Open when the stem is in the bottom position.
Closed when the stem is in the top position.

3-way valve:

Open between port A and port AB when the stem is in the bottom position (*closed between port B and AB*).
Open between port B and port AB when the stem is in the top position (*closed between port A and AB*).

Reconstruction

The valve can without dismantling be changed from two-ways to three-ways and vice-versa.

Actuator

The valves are intended for use together with ZVA actuators from 2500 Nf upwards and ZEA actuators from 2000 Nf upwards. Note the valve stroke travel when selecting actuators.

Installation

The valves are to be mounted according to the flow-direction marks on the valves.
The 2-way valve is to be mounted with port AB as intake and port A as return (flow direction AB in A out) to ensure tight closure and prevent noise when closing.
The 3-way valve is of mixing type and should be mounted at the mixing point.
Make sure to mount the 3-way valve so that correct flow directions are obtained.

Models

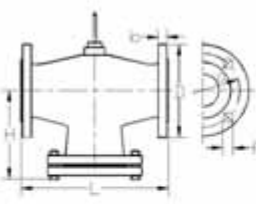
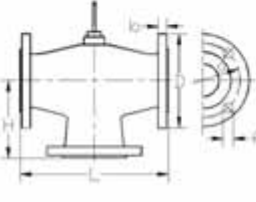
2-way	3-way	Connection	Kv	Max diff.pres	Flange holes	Weight(kg) 2(3)-way	Stroke(mm)
ZFV7200-65	ZFV7300-65	DN65	kv 63	0.2 MPa*	4	30(26)	22
ZFV7200-80	ZFV7300-80	DN80	kv 100	0.6 MPa	8	35(30)	42
ZFV7200-100	ZFV7300-100	DN100	kv 160	0.4 MPa	8	44(36)	42
ZFV7200-125	ZFV7300-125	DN125	kv 250	0.3 MPa	8	64(57)	42
ZFV7200-150	ZFV7300-150	DN150	kv 360	0.2 MPa	8	92(80)	42
ZFV7200-200	ZFV7300-200	DN200	kv 550	0.1 MPa	12	141(123)	42

* when used with the ZVA1500 or ZEA15 actuator

Technical data

Flow characteristics	Equal Percentage	Material	Body	HT250/Q235A
Media temperature	2...94°C		Stem	1Cr18Ni9 (AISI302) Stainless steel
Media	Hot, cold water		Valve Plug	Casting brass
Pipe Connection	BSP female thread to ISO228/1		Sealing	Fluon filler and stainless steel compensation spring
Max leakage	0.05 % of Kv		Valve plate	Brass
Rangeability	30:1			
Pressure rating	PN16			

Dimensions/ Pressure Drop Diagram

FIGURE	MODEL	DIMENSIONS (mm)					
		L	H	D	b	a	f
	ZFV7200-65	290	148	185	20	145	18
	ZFV7200-80	310	185	200	20	160	18
	ZFV7200-100	350	206	220	20	180	18
	ZFV7200-125	400	227	250	22	210	18
	ZFV7200-150	480	272	285	22	240	22
	ZFV7200-200	600	337	340	24	295	22
	ZFV7300-65	290	148	185	20	145	18
	ZFV7300-80	310	155	200	20	160	18
	ZFV7300-100	350	174	220	20	180	18
	ZFV7300-125	400	195	250	22	210	18
	ZFV7300-150	480	238	285	22	240	22
	ZFV7300-200	600	300	340	24	295	22

Installation

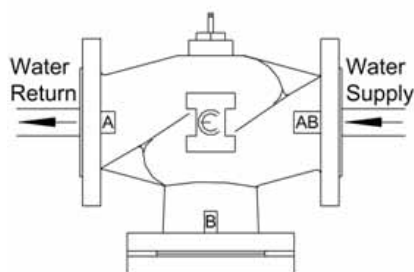


Fig. 1 Two-way valve

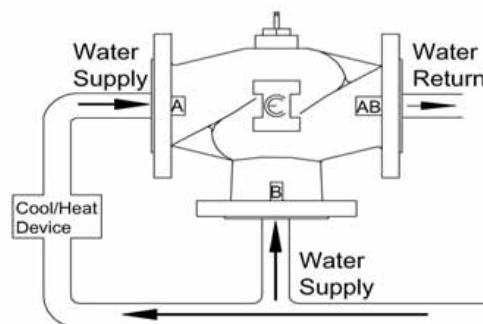


Fig. 2 Three-way valve