



**ZGV is a series of 2 and 3-way control valves intended for use in HVAC hot and cold water application.**

- \* Size DN25 up to DN50
- \* Kv value 10 ... 40
- \* Differential pressure 0.2 ... 0.6 MPa
- \* Pressure rating PN16
- \* Fluid temperature 2 ... 94°C
- \* Metal to metal seat

### Models

The valve series ZGV is intended for use together with actuator for control of cold and hot water applications. The 3-way valve can be used as a mixing valve as well as a diverting 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 AB and port A when the stem is in the bottom position (*closed between port AB and B*).  
Open between port AB and port B when the stem is in the top position (*closed between port AB and A*).

### Actuator

The valves are intended for use together with actuator model ZVA series and ZEA series.

### Installation

The 2-way valve is to be mounted with port AB at the intake and port A at the return (flow direction AB in A out) to make sure that the cone will be watertight and prevent noise when closing.  
The 3-way valve can be mounted as mixing or diverting configuration.  
Make sure to mount the 3-way valve so that correct flow directions are obtained.

### Models

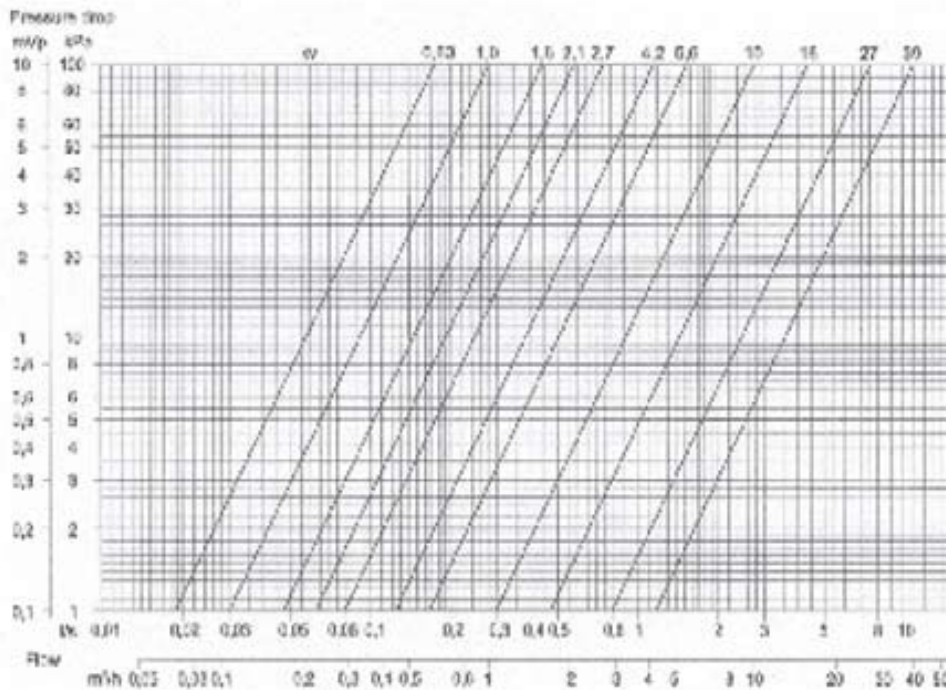
<u>2-way</u>	Connection	Kv	Max. diff. press	<u>3-way</u>	Connection	Kv	Max. diff. press
<b>ZGV2210-25</b>	DN25	Kv10	0.6 MPa	<b>ZGV2310-25</b>	DN25	Kv10	0.6 MPa
<b>ZGV2210-32</b>	DN32	Kv16	0.4 MPa	<b>ZGV2310-32</b>	DN32	Kv16	0.4 MPa
<b>ZGV2210-40</b>	DN40	Kv25	0.3 MPa	<b>ZGV2310-40</b>	DN40	Kv25	0.3 MPa
<b>ZGV2210-50</b>	DN50	Kv40	0.2 MPa	<b>ZGV2310-50</b>	DN50	Kv40	0.2 MPa

### Technical data

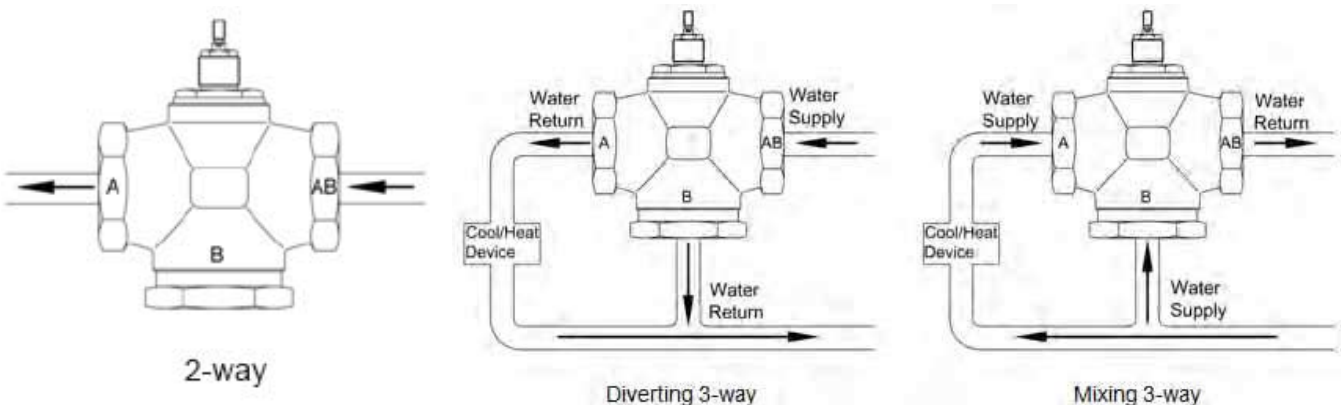
Flow characteristics	Equal Percentage	Rangeability	50:1
Media temperature	2 ... 94 °C	Pressure rating	PN16
Media	Hot, cold water		
Pipe Connection	BSP female thread to ISO228/1	Material	Body HT250
Stroke	20 mm		Cone Forging brass/Nitrile rubber gasket
Max leakage	0.05% of Kv		Stem Stainless steel 1Cr18Ni19 (AISI 302)

### Dimensions / Pressure Drop Diagram

FIGURE	MODEL	DIMENSIONS (mm)		
		A	B	C
	ZGV2210-25	110	58	111
	ZGV2210-32	120	65	111
	ZGV2210-40	130	68	114
	ZGV2210-50	145	70	121
	ZGV2310-25	110	75	111
	ZGV2310-32	120	83	111
	ZGV2310-40	130	84	114
	ZGV2310-50	145	89	121



### Wiring, Manual Switch, Assembly & Disassembly



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