

## Description



The globe valves in stainless steel serie VGI are used in heating, refrigeration and air-conditioning systems for the flow control of heated or chilled water for domestic and industrial applications. The valves are motorized by the electric actuators serie AVGI10 at 1000 N.

## Technical specifications

<b>Fluids type</b>	Hot and cold water (with glycol max. 50%)
<b>Fluid temperature</b>	-25...130°C
<b>Nominal pressure</b>	2500 kPa max (25 bar)
<b>Control flow characteristics</b>	Equal-percentage (linear on angle way)
<b>Rangeability</b>	50 : 1
<b>Leakage</b>	< 0,05% of KVs
<b>Connections</b>	BSP female thread
<b>Stroke</b>	22 mm
<b>Installation position</b>	Horizontal or vertical
<b>Maintenance</b>	Free
<b>Body</b>	Stainless steel 304
<b>Plug</b>	Stainless steel 304
<b>Valve stem</b>	Stainless steel 304
<b>Stem packing</b>	PTFE + O-ring EPDM
<b>Dimensions and weight</b>	See schedule



2 ways	Models		DN	KVs	Max diff. pressure (bar) (*)			Stroke mm	Actuator
	3 ways				2 ways	3 ways (M)	3 ways (D)		
VGI215	VGI315		15	4.0	5 (5)	5	2	13	AVGI10(M)
VGI220	VGI320		20	6.3	5 (5)	5	2		
VGI225	VGI325		25	8	5 (12.3)	5	2		
VGI232	VGI332		32	12	5 (7.5)	5	2		
VGI240	VGI340		40	20	3.5 (3.5)	3.5	1.5	19	
VGI250	VGI350		50	30	3 (3)	3	1		

(\*) In order to avoid wear between plug and seat, we recommend not to overcome the nominal values.

## Caution

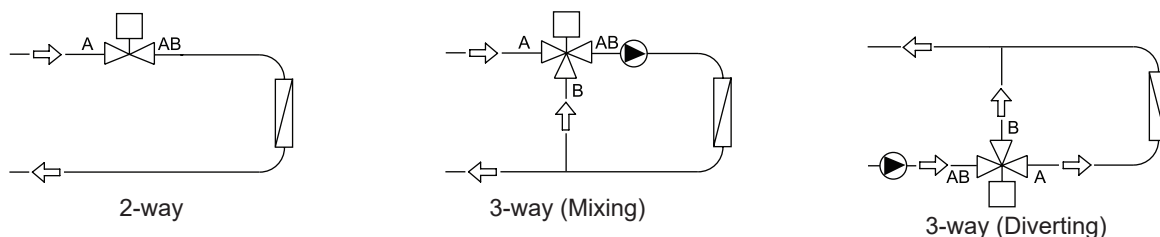
Before valves are mounted, make sure that pipes are clean, free from welding slugs, that are perfectly lined up with valve body and not subjected to vibrations. The valve can be mounted in any position except upside-down. While assembling, respect the flow directions indicated by the arrows located on the valve body.

In the 2-way valve, when stem is up, the direct way is open, with stem down direct way is closed.

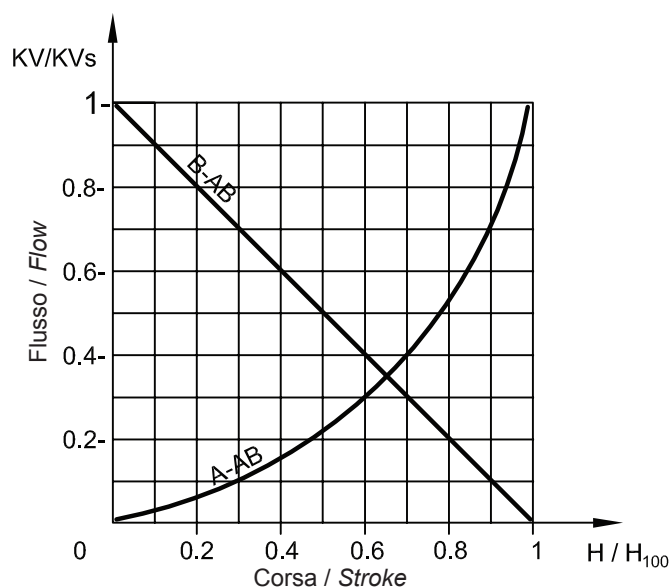
In the 3-way valve, when stem is up, the direct way is closed, with stem down direct way is open.



## Installation



## Control flow characteristics



### 3-way

A-AB equal-percentage way  
 B-AB bypass linear way  
 3-way used as mixing inlet in A and B, outlet AB  
 3-way used as diverting inlet in AB, outlet from A and B

**AB way** constant flow  
**A way** variable flow  
**B (bypass) way** variable flow

## Dimensions and weights

Models	Thread	Dimensions (mm)			Weight kg
		A	B	C	
VGI215	G1/2	85	41	80	1.25
VGI315	G1/2	85	60	140	1.3
VGI220	G3/4	85	41	80	0.95
VGI320	G3/4	85	60	140	1
VGI225	G1	90	39	86	1.05
VGI325	G1	90	60	146	1.15
VGI232	G1 1/4	105	43	92	1.3
VGI332	G1 1/4	105	61	153	1.4
VGI240	G1 1/2	120	50.5	100	1.95
VGI340	G1 1/2	120	70.5	170.5	2.1
VGI250	G2	140	55.5	107	2.2
VGI350	G2	140	88.5	195.5	2.2

