VF – flanged globe valves



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

SERIA VF

APPLICATION AND USE

The globe valves in cast-iron serie VF 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 AVF series electric actuators with actuating force 1200 N (up to DN80) and 1800 N (from DN100 up to DN200).

TECHNICAL SPECIFICATION

Fluids type	Hot and cold water (with glycol max. 50%)
Fluid temperature	-10...120°C
Pressure rating	Max. 1,600 kPa (16 bar) (200 psi)
Flow characteristics	Equal-percentage on direct way
	Linear on angle way
Rangeability	50:1
Leakage rate	< 0,1% of K_{VS} value
Connections	Flange
Stroke	See schedule
Installation position	Horizontal or vertical
Maintenance	Maintenance-free
Body	Cast-iron G25
Valve plug	Brass
Valve stem	Stainless steel 302
Stem sealing	PTFE
Dimensions and weights	See schedule

MODEL SELECTION TABLE

2-way	3-way	DN	K_{VS}	Max differential pressure [bar] (*)	Stroke	Actuator
VF250	VF350	50	50	2.5 (6)	20	AVF12(M)
VF265	VF365	65	75	2.5 (6)	20	AVF12(M)
VF280	VF380	80	100	2.5 (6)	20	AVF12(M)
VF2100	VF3100	100	125	2.5 (6)	38	AVF18(M)
VF2125	VF3125	125	200	2.5 (5)	38	AVF18(M)
VF2150	VF3150	150	285	2.5 (5)	38	AVF18(M)
VF2200	VF3200	200	400	2(4)	38	AVF18(M)

(*) The values in the brackets are the max diff. pressure when valve is fully closed and actuator is still able to open or close the valve with security. In order to avoid wear between plug and seat, we recommend not to overcome the nominal values.

REMARK

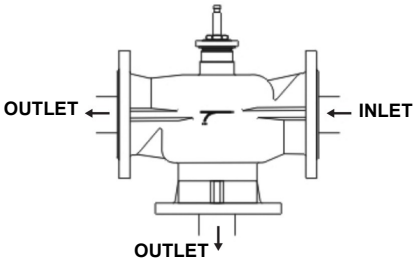
Before valves are mounted, make sure that pipes are clean, free from welding slags, that are perfectly lined up with valve body and not subjected to vibrations. The valve can be mounted in any position except upside-down. While assembling, respect the flow directions indicated by the arrows located on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

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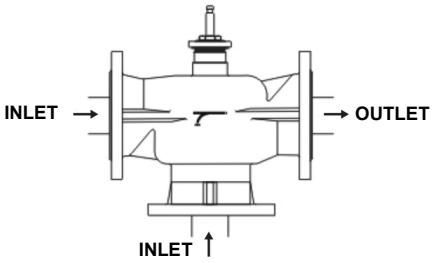
INNOVATIVE MEMBER OF SWISTEC

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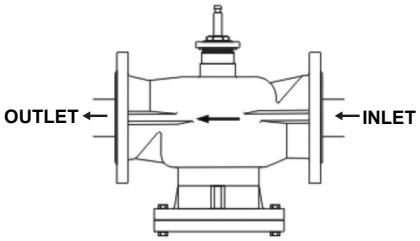
INSTALLATION



3-way valve diverting

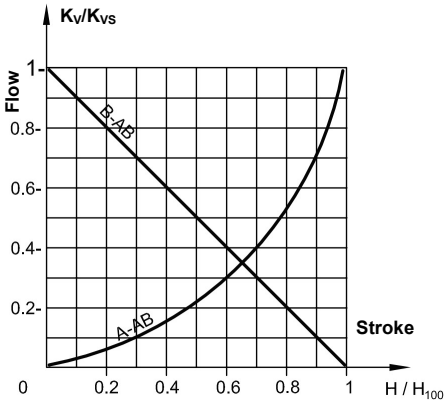


3-way valve mixing



2-way valve

FLOW CHARACTERISTIC



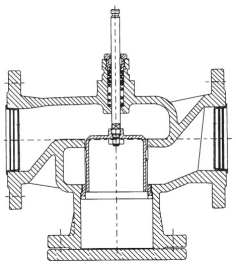
A-AB path, equal-percentage

B-AB path (bypass), linear

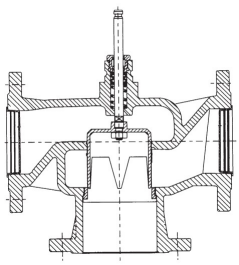
3-way used as mixing inlet in A and B, outlet AB

3-way used as diverting: inlet AB, outlets A and B

AB path	constant flow
A path	variable flow
B path (bypass)	variable flow



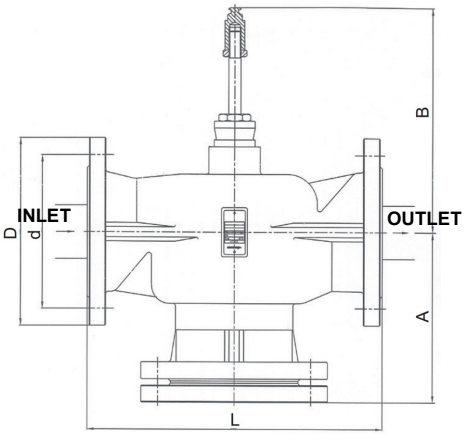
2-way



3-way

DIMENSIONS & WEIGHT

Models	Thread DN	Dimensions [mm]					Weight [kg]
		D	d	L	A	B	
VF250	50	165	125	230	133	166	14
VF350	50	165	125	230		166	11.8
VF265	65	185	145	290	164	178	19.7
VF365	65	185	145	290		178	16.4
VF280	80	200	160	310	177	182	23.2
VF380	80	200	160	310		182	20.4
VF2100	100	220	180	350	200	264	39.5
VF3100	100	220	180	350		264	33.7
VF2125	125	250	210	400	228	275	54.5
VF3125	125	250	210	400		275	46
VF2150	150	285	240	480	268	290	76.3
VF3150	150	285	240	480		290	65
VF2200	200	340	290	600	330	315	135
VF3200	200	340	290	600		315	120



Due to continuous product improvement, specifications are subject to change without notice.

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