Flanged globe valve

VFF

Description

The VFF series cast iron valves are used to control the flow of hot or cold water in heating, air conditioning or refrigeration systems in civil and industrial plants. They are motorised with AVFF series actuators.

Technical specifications





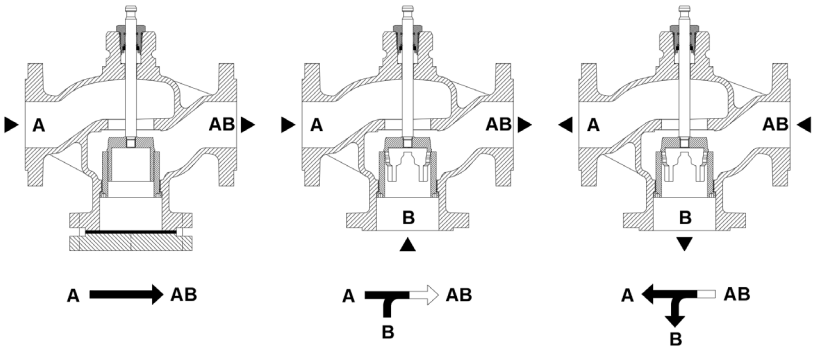
Fluid	Hot and cold water (with max. 50% glycol)
Fluid temperature	-25...130°C
Nominal pressure	1600 kPa max (16 bar)
Regulation characteristics	Direct equipercentage path Linear angle path
Regulation capacity	100:1
Leakage	< 0,5 % of KVs
Pipe connection	Flange according EN1092-2
Stroke	See table
Installation position	Horizontal or vertical
Maintenance	Free
Body	QT450 cast iron
Shutter and valve stem	Aisi 304 steel
Seals	PTFE+EPDM
Dimensions and weight	See schedule

Model		DN	KVs	Max pres. diff. (bar) *			Stroke	Actuators
2 way	3 way			2 way	3 way (M)	3 way (D)	D	
VFF250	**VFF350**	50	40	4	4	2	19	AVFF15...
VFF265	**VFF365**	65	63	3,5	3,5	2	20	AVFF15...
VFF280	**VFF380**	80	100	2,5	2,5	2	20	AVFF15...
VFF2100	**VFF3100**	100	125	3,5	3,5	1,5	40	AVFF30...
VFF2125	**VFF3125**	125	220	8	2	1	40	AVFF30...
VFF2150	**VFF3150**	150	300	8	1,2	0,7	40	AVFF30...
VFF2200	**VFF3200**	200	420	8	0,7	0,7	40	AVFF30...

Warnings

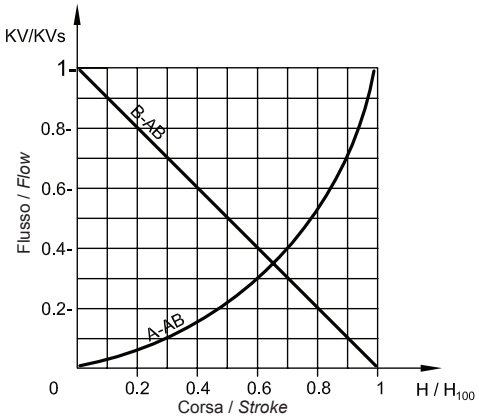
Before installing the valves, ensure that the pipes are clean, free of welding slag, perfectly aligned with the valve body and not subject to vibrations. The valve can be installed in any position except upside down. When installing, observe the flow directions indicated by the arrows on the valve body.
With the stem extended (up), the direct path is closed; with the stem retracted (down), the direct path is open.

Installation



2-way valve | 3-way mixing valve | 3-way diverting valve

Flow control characteristic



Port A-AB equal-percentage
Bypass B-AB linear

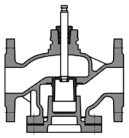
Used as mixing valve
flow from A and B, outlet to AB

Used as diverting valve
flow from AB, outlet to A and B

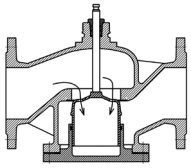
Port AB constant flow

Port A variable flow

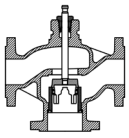
Port B (bypass) variable flow



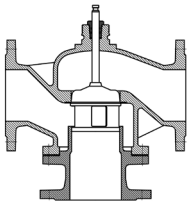
2-way
(DN50-DN100)
single-seated



2-way
(DN125-DN300)
with pressure
compensated



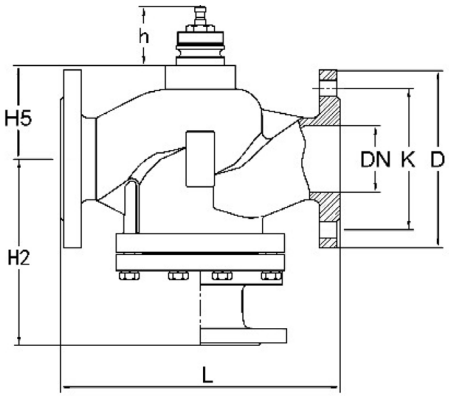
3-way
(DN50)



3-way
(DN65-DN300)

Dimensions and weights

Model	Connection	Dimension (mm)						Weight
	DN	L	D	K	H5	H2	h	kg
VFF250	50	230	165	125	63	115	66	12
VFF350								9,7
VFF265	65	290	180	145	77	183	66	15
VFF365								18
VFF280	80	310	195	160	76	193	66	19,5
VFF380								24
VFF2100	100	350	215	180	99	203	66	25
VFF3100								30,5
VFF2125	125	400	245	210	119	236	66	39,5
VFF3125								44
VFF2150	150	480	280	240	133	254	66	52,5
VFF3150								65
VFF2200	200	495	340	295	145	307	66	87,5
VFF3200								95



The contents are subject to revision or change without notice.