



## 15 to 65 mm 2-Way and 3-way Globe Valve Bodies: Cast Iron Flanged, PN 16 Body Rating

### General

The VSBF and VMBF Series 2-way and 3-way globe valves are engineered specifically for temperature control applications requiring an equal percentage flow characteristic and a high degree of control precision. Common applications include hot water, chilled water and low pressure steam coils and heat exchangers in air handling units, chillers, boilers and cooling towers.

The VSBF and VMBF Series valves are available with PN16 flanged connections in 2-way and 3-way configurations. The service port A of all valves is fully closed to port AB with the stem up and fully open with the stem down (push-down-to-open) while the bypass port B to port AB of all 3-way valves is vice versa.

All VSBF and VMBF Series valves are operated by MVB Series (general purpose) or MVL Series (heavy duty) electric actuators which are ordered separately.

### Material

Body and Seat:	Cast Iron
Stem:	Stainless Steel
Plug:	Forged brass
Packing:	Viton O-ring with Teflon Scraper ring

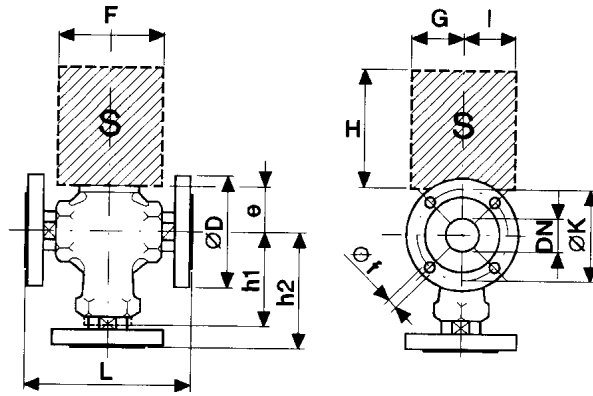


### Specification

Working Pressure:	16 bar
Pipe Connection:	PN16 Flange
Flow Characteristics:	"A" equal percentage "B" Linear (by-pass)
Leakage:	0.03% of Kv "A", 2% of Kv "B"
Stroke:	16.5 mm (20 mm for 65 mm valve)
Fluid Limitations :	-10...150°C Water max. 50% Glycol Max. 150°C at 2.5 bar (Steam)

The specification above are normal and conform to generally acceptable industry standard. Cyrus is not responsible for damages resulting from misapplication or misuse of its products.

# GLOBE VALVE VSBF, VMBF



## Dimensions in mm

2-way	3-way	Dn	D	K	f	L	h1	h2	(kg)	Actuator	H	F	G	I
VSB2F	VMB2F	15	95	65	14	130	70	95	3.6	MVB	300	150	190	160
VSB3F	VMB3F	20	105	75	14	150	79	100	4.5	SH	420	160	70	250
VSB4F	VMB4F	25	115	85	14	160	83	105	5.5	MVL	371	220	30	148
VSB5F	VMB5F	32	140	100	18	180	90	115	8	MVLA/C	371	220	58	148
VSB6F	VMB6F	40	150	110	18	200	98	126	9.8					
VSB8F	VMB8F	50	165	125	18	230	111	141	13.5					
VSB9F	VNB9F	65	185	145	18	290	145	167	17.3					

## Differential Pressure (bar)

2-way	3-way	Dn	Kv	Stroke	MVB	SH	MVL	MVLA/C
VSB2F	VMB2F	15	4.0	16.5	10	10	10	10
VSB3F	VMB3F	20	6.3	16.5	10	10	10	10
VSB4F	VMB4F	25	8	16.5	6.5	10	10	10
VSB5F	VMB5F	32	16	16.5	4	10	10	6
VSB6F	VMB6F	40	22	16.5	2.5	8	8	4
VSB8F	VMB8F	50	30	16.5	2	6	6	3
VSB9F	VNB9F	65	63	20	1.5	—	4	1.5

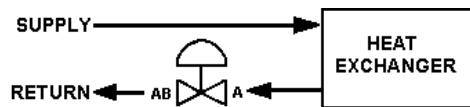
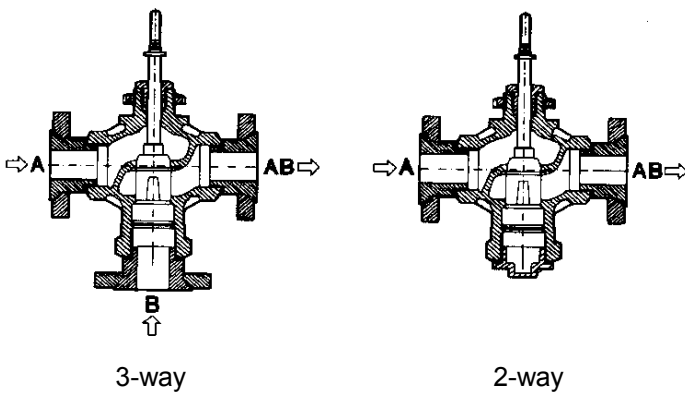
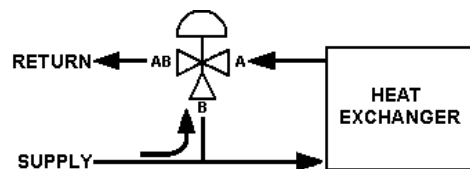


Fig 2: 2-Way Valve Piping



3-Way Valve Piping

## Installation

### PIPE CONNECTIONS

The valve must be piped according to flow directions as indicated on valve body.