



65 to 150 mm 2-Way and 3-way Globe Valve Bodies: Cast Iron Flanged, PN 16 Body Rating

General

The VSG and VMB16 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 VSG and VMB16 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 VSG and VMB16 Series valves are operated by SH Series (general purpose) or MVL Series (heavy duty) electric actuators which are ordered separately. The actuators are designed specially for mounting directly to VSG and VMB16 Series valves without the need of time-consuming field calibration. However, when a SH actuator is used, its stroke setting must be set to correspond with the specified valve stroke.

Material

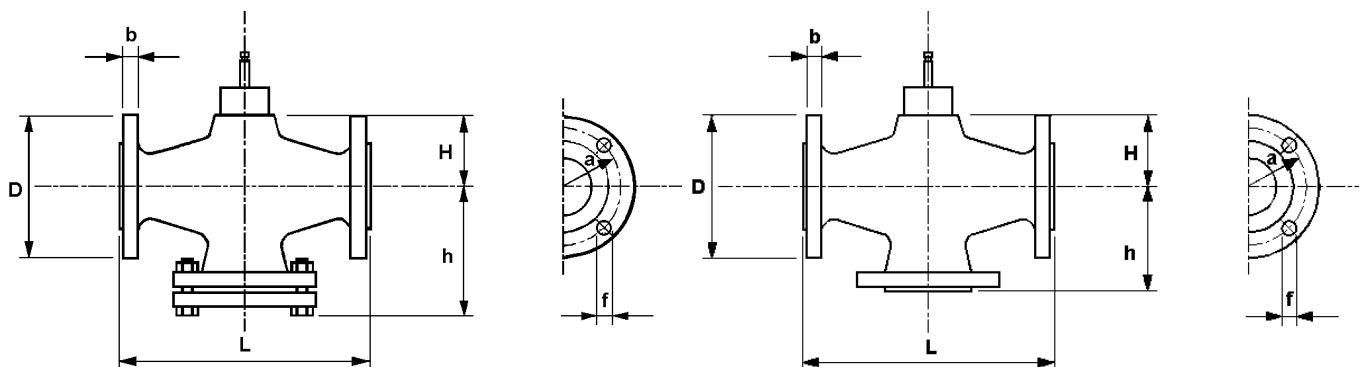
Body and Seat:	Cast Iron
Stem:	Stainless Steel
Plug:	Forged brass
Packing:	Viton O-ring with Teflon Scraper ring



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"
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.



Dimensions in mm											Differential Pressure in bar				
Model	Dia.	Kv	L	H	h	D	b	a	f	holes	kg	stroke	SH	MVL	MVLA/C
VSG65	65	63	290	71	175	185	20	145	18	4	23	25	2.8	3.6	1.4
VSG80	80	100	310	81	158	200	22	160	18	8	28	45	1.7	2.3	0.8
VSG100	100	160	350	93	178	220	22	180	18	8	32	45	0.8	1.4	0.4
VSG125	125	250	400	115	203	250	24	210	18	8	45	45	0.5	0.8	-
VSG150	150	360	480	133	243	285	24	240	22	8	60	45	0.3	0.4	-
VMB16.65	65	63	290	71	145	185	20	145	18	4	23	25	3.0	4.0	1.5
VMB16.80	80	100	310	81	155	200	22	160	18	8	28	45	1.8	2.4	0.9
VMB16.100	100	160	350	93	175	220	22	180	18	8	32	45	1.0	1.5	0.5
VMB16.125	125	250	400	115	200	250	24	210	18	8	45	45	-	0.9	0.25
VMB16.150	150	360	480	133	240	285	24	240	22	8	60	45	-	0.5	0.15

Installation

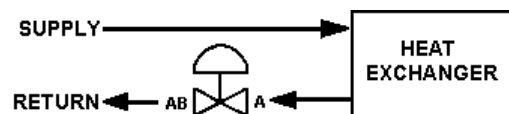
PIPE CONNECTIONS

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

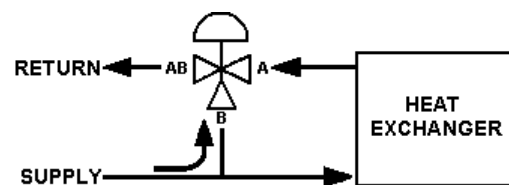
VALVE MOUNTING

Before mounting valve, be sure that pipes are clean and free from scores. It is essential that pipes be lined up squarely with the valve at each connection, free from vibrations. For installations on plants with high temperature fluid (steam, superheated steam, water, or diathermy fluid) use expansion joints to avoid pipe buckling against valve body.

Valves may be mounted in any position provided that main shaft of actuator is always horizontal. Leave sufficient clearance around the valve for incidental maintenance. Valve must not be installed in explosive atmosphere nor at ambient temperature higher than 50 °C and lower than -5 °C; must not be subject to steam jets, water jets or dripping.



2-Way Valve Piping



3-Way Valve Piping