



Manual valve for high vacuum

MVB⁵⁶⁷0 Series

● Formed bellows ● Handle

Custom order

Model No.	Actuation	Orifice	Model No.	Actuation	Orifice
MVB50	Manual	ø24	MVB70	Manual	ø50
MVB60	Manual	ø40			

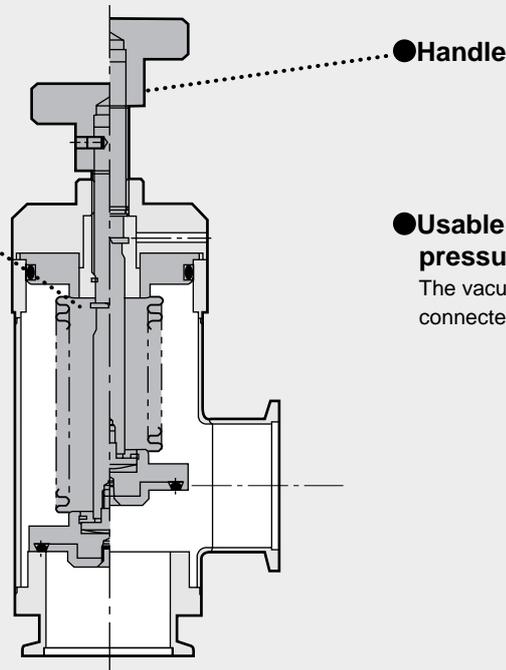
Air-operated valve (AVB**2) performance is incorporated in the manual valve.

● **Long-life formed bellows**

Special, stainless steel material (ASL-350) provided. Corrosion resistance is outstanding.

● **Low dust generation**

Wetted areas (flow path) have no sliding sections that may generate particles.



● **Usable with back pressure**

The vacuum pump can be connected to either port.

Specifications

Descriptions	MVB50	MVB60	MVB70
Working fluid	Vacuum and inert gas		
Working pressure range Pa(abs)	1.3×10^{-6} to 1×10^5		
Maximum working differential pressure MPa	0.1		
Valve seat leakage Pa·m ³ /s(He)	1.3×10^{-9} or less		
External leakage Pa·m ³ /s(He)	1.3×10^{-9} or less		
Withstanding pressure MPa	0.3		
Fluid temperature °C	5 to 60		
Ambient temperature °C	0 to 60		
Orifice mm	ø24	ø40	ø50
Stroke mm	15	20	22
Valve structure	Formed bellows		
Connection	NW25	NW40	NW50
Weight kg	1.4	2.4	3.2
JIS symbol			

Precautions

Always read page 9 in the introduction and the precautions on page 88 to ensure correct, safe use of this product.

- Working media
- Installation
- Direction when connecting piping

How to order

MVB 5 0 - 25K

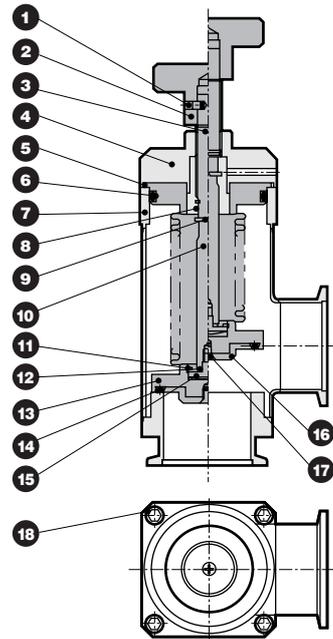
Manual

A Series

B Connection

Symbol	Descriptions
A Series	
5	Orifice $\phi 24$
6	Orifice $\phi 40$
7	Orifice $\phi 50$
B Connection	
25K	25A (Only MVB50 is available)
40K	40A (Only MVB60 is available)
50K	50A (Only MVB70 is available)

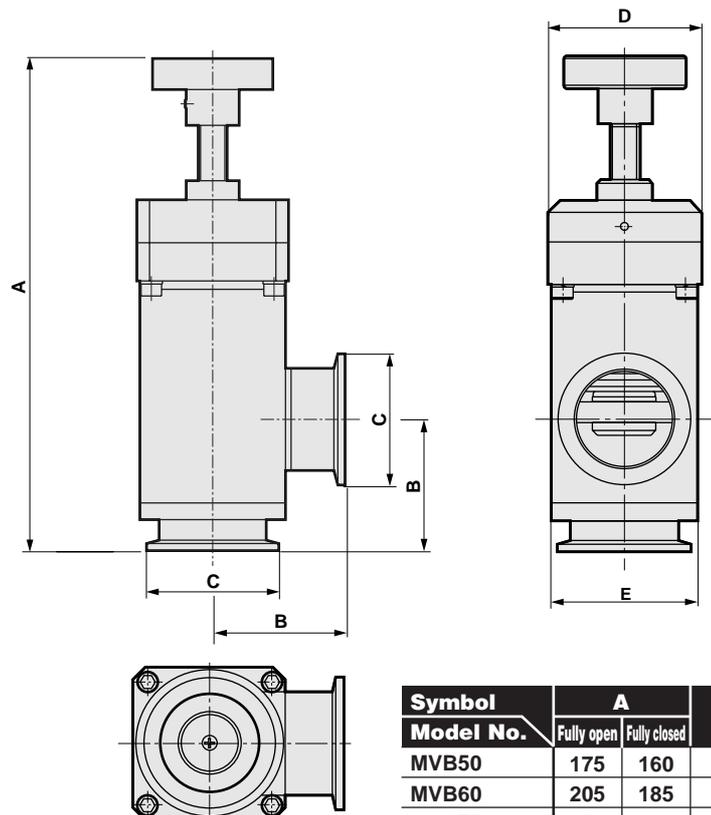
Internal structure and parts list



No.	Parts name	Material	No.	Parts name	Material
1	Hexagon socket set screw	SUS304	10	Rod	SUS316
2	Handle		11	Spring washer	SUS304
3	Manual rod	SUS303	12	C snap ring	SUS304
4	Adaptor	A2011	13	Valve disk A	SUS316
5	Bellows assembly	ASL350,SUS316	14	O ring	FKM
6	O ring	FKM	15	Rod piece	SUS304
7	Body assembly	SUS304	16	Valve disk B	SUS316
8	E snap ring	SUS304	17	Flat headed cross cut screw	SUS304
9	Spring washer	SUS304	18	Cross headed bolt	SUS304

Dimensions

MVB*0



Symbol Model No.	A		B	C	D	E
	Fully open	Fully closed				
MVB50	175	160	50	$\phi 40$ (NW25)	63	$\phi 48.6$
MVB60	205	185	55	$\phi 55$ (NW40)	63	$\phi 60.5$
MVB70	252	230	70	$\phi 75$ (NW50)	78	$\phi 79$