

High Vacuum Valve VAH/VAP Series

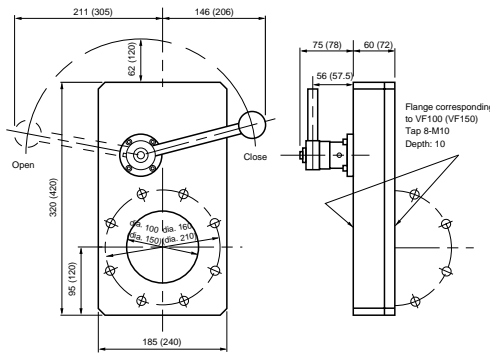
High Vacuum Valve VAH-U Series (Manual Valve with Vacuum Flange)



Specifications

Item	Model	VAH-U	
Common diameter		100 A (4B)	150 A (6B)
Main unit material		Aluminum alloy (Internal parts: Soft steel, nickel plating)	
Gasket material		Nitrile rubber	
Conductance: *1	L/s	1300	3500
Allowable baking temperature	°C	< 60	
Applicable pressure range	Pa	10 ⁵ -10 ⁻⁵	
Leak volume *2	Pa · m ³ /s	< 7.0 x 10 ⁻⁹	
Allowable surrounding temperature	°C	5-40	
Operation method		Manual	
Open/close signal output		Attachment not possible	
Remarks		Fluoride rubber compatibility possible (optional)	

VAH-U100 (U150)



*Values in () are for the VAH-U150

Note: 1. SI units are used in this catalog. The following conversion can be used for non-SI units.

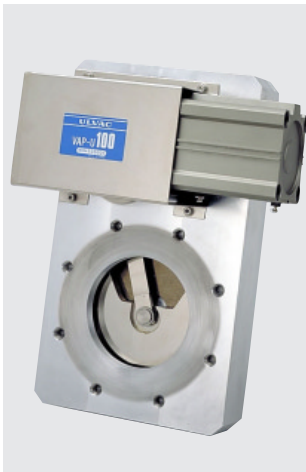
Ultimate pressure: 1 Pa = 7.5 x 10⁻³ Torr

2. Open and close the valve with a maximum pressure differential of 1000Pa or less.

*1 Conductance: Calculated value using molecular flow, 20 °C, and air

*2 a. Seal performance value when valve is shut. O-ring permeability is not included in the leak volume.
b. When the valve is operated air caught in the shaft is turned in and may increase the apparent leak volume.

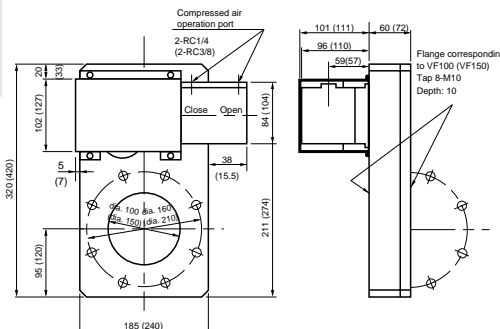
High Vacuum Valve VAP-U Series (Compressed Air Driven Valve with Vacuum Flange)



Specifications

Item	Model	VAP-U	
Common diameter		100 A (4B)	150 A (6B)
Main unit material		Aluminum alloy (Internal parts: Soft steel, nickel plating)	
Gasket material		Nitrile rubber	
Conductance *1	L/s	1300	3500
Allowable baking temperature	°C	< 60	
Applicable pressure range	Pa	10 ⁵ -10 ⁻⁵	
Leak volume *2	Pa · m ³ /s	< 7.0 x 10 ⁻⁹	
Allowable surrounding temperature	°C	5-40	
Operation method		Compressed air	
Open/close signal output		Attachment possible (optional)*3	
Compressed air operating pressure	MPa G	0.45-0.55	
Remarks		Fluoride rubber compatibility possible (optional)	

VAP-U100 (U150)



*Values in () are for the VAP-U150

Note: 1. SI units are used in this catalog. The following conversion can be used for non-SI units.

Ultimate pressure: 1 Pa = 7.5 x 10⁻³ Torr

2. Open and close the valve with a maximum pressure differential of 1000 Pa or less.

*1 Conductance: Calculated value using molecular flow, 20 °C, and air

*2 a. Seal performance value when valve is shut. O-ring permeability is not included in the leak volume.
b. When the valve is operated air caught in the shaft is turned in and may increase the apparent leak volume.

*3 Three types of open/close signals are available. When ordering models with contact points, specify the signal type and the open or close side.

- D-A72 (for AC200V, with indicator lamp)
- D-A73 (for DC24V.AC100 V, with indicator lamp)
- D-A80 (for DC24V.AC100 V, without indicator lamp)