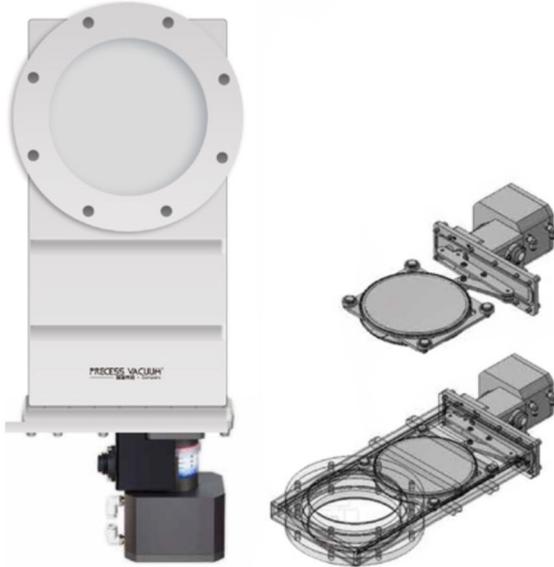


## Gate Valve

### HV GATE VALVE, SERIES V21

General purpose for high vacuum isolation. Especially suit to pump isolation.



#### APPLICATIONS

- Semiconductor, solar, general vacuum processing
- PVD, CVD, sputter deposition

#### MAIN FEATURES

- Good bellows sealed valve
- Shock free with minimum vibration
- Stainless steel material valve body for corrosion resistance
- Mechanical lock in close position
- DN63-630 with FKM O-ring gate seal
- Pneumatic, manual and 3-Position actuators
- Available in ISO-F, CF-F, ASA-LP, JIS flange

#### OPTIONS

- Custom specified flange
- Custom opening size available
- Various O-ring (Kalrez<sup>®</sup>, Chemraz<sup>®</sup> etc.)

#### Valve with pneumatic actuator

without solenoid valve  
with position indicator  
double action

DN mm	Ordering Number	
	ISO-F metric flange	CF-F metric flange
63	V21-D-063-1-1-PDBOZAC-A	V21-D-063-1-1-CDBOZAC-A
80	V21-D-080-1-1-PDBOZAC-A	V21-D-080-1-1-CBCGZCB-A
100	V21-D-100-1-1-PCCOZAC-A	V21-D-100-1-1-CTCOZAC-A
160	V21-D-160-1-1-PZBOZAD-A	V21-D-160-1-1-CZCOZAG-A
200	V21-D-200-1-1-PEBEZAG-A	V21-D-200-1-1-CEBEZAC-A
250	V21-D-250-1-1-PEBEZAE-A	V21-D-250-1-1-CEBEZAC-A
320	V21-D-320-1-1-PHBEZBD-A	V21-D-320-1-1-CHBEZBB-A
400	RIB-D-400-1-1-PBEEGAB-A	on request
500	RIB-D-500-1-1-PAEEDAB-A	on request
630	RIB-D-630-1-1-PAEZDAB-A	on request

With solenoid valve is an option

#### Valve with manual actuator

DN mm	Ordering Number	
	ISO-F metric flange	CF-F metric flange
63	V21-M-063-1-1-PDBAAAAB-A	V21-M-063-1-1-CDBAAAAC-A
100	V21-M-100-1-1-PCBAAAEE-A	V21-M-100-1-1-CTCAAAB-A
160	V21-M-160-1-1-PZBAAAAB-A	V21-M-160-1-1-CZCAAAB-A
200	V21-M-200-1-1-PEBAAAAC-A	V21-M-200-1-1-CEBAAAAB-A
250	V21-M-250-1-1-PEBAABC-A	V21-M-250-1-1-CEBAABB-A

Actuator		Pneumatic, Manual, 3-Position
Leak rates	Valve body, seat	$< 1 \times 10^{-9}$ mbar l/s
Pressure range	DN63-200	$1 \times 10^{-8}$ mbar to 1.6 bar
	DN250-320	$1 \times 10^{-8}$ mbar to 1.2 bar
Differential pressure on the gate in opening direction	DN63-200	$\leq 1.6$ bar
	DN250-320	$\leq 1.2$ bar
Differential pressure on the gate in closing direction		$\leq 1.2$ bar
Differential pressure at the opening		$\leq 30$ mbar
Life cycle until first service		$> 50,000$
Temperature	Valve body	$\leq 150^{\circ}\text{C}$
	Valve gate	$\leq 120^{\circ}\text{C}$
	Actuator	$\leq 60^{\circ}\text{C}$
	Solenoid valve	$\leq 50^{\circ}\text{C}$
	Position indicator	$\leq 50^{\circ}\text{C}$
Material	Valve body	AISI 304 (1.4301)
	Valve gate	AISI 304 (1.4301)
	Bonnet	AISI 304 (1.4301)
	Shaft	AISI 304 (1.4301)
	Mechanism	EN AW-6061 (3.3211)
	Bellow	AISI 316L (1.4404, 1.4435)
	Bellow end piece	AISI 304 (1.4301)
Surface treatment	Valve body	Bead blasting or buffing
	Valve gate	Vibration sanding
	Bonnet	Bead blasting or buffing
	Shaft	Bare
	Actuator	Hard anodization
Seal	Bonnet, gate	FKM (Viton®)
Feed through		Bellows
Solenoid valve		24V DC or on request
Position indicator	Type	Micro switch
	Voltage	24V DC
	Current	5-40 mA
	Connector	D-Sub 9P male
Air pressure		4.5 - 6 bar
Mounting position		Any
Air failure		Lock at close position
Compress air connection		Quick connector OD 4mm
Options	<ul style="list-style-type: none"> <li>·6mm air fitting is available (Standard 4mm)</li> <li>·FFKM sealing material is available</li> <li>·Other solenoid valve voltage (standard 24V DC)</li> <li>·Different valve body surface treatment</li> </ul>	