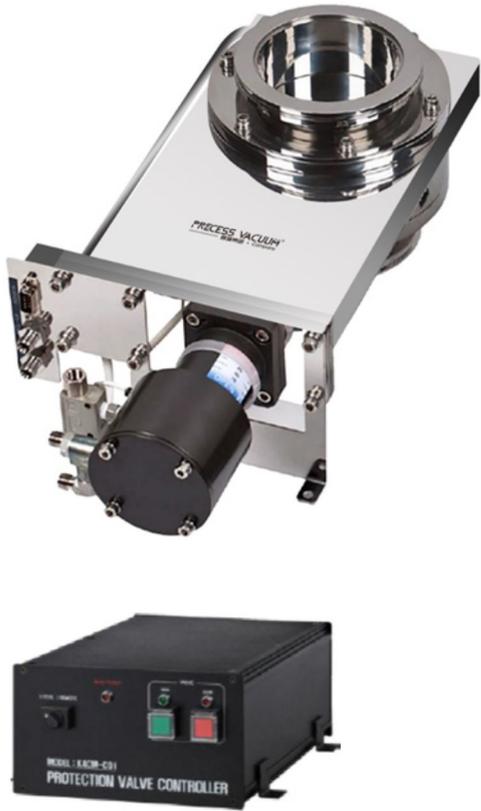


## PTG Valve

### HV PROTECTION GATE VALVE, SERIES V60

General purpose for high vacuum protection and isolation. Especially suit to protection and isolation between chamber and pump.



#### APPLICATIONS

- Semiconductor processing
- Vacuum pump or chamber isolation in demanding processes
- Etch, CVD (MO, PE, HDP, LP) implant, sputter
- Nanotechnology process with high particulate levels
- Thin film photovoltaic panels

#### MAIN FEATURES

- Protects process environment from down-streaming powder in the event of dry pump failure
- Fast pneumatic open & close less than 0.3s
- Long cycle life under adverse process conditions
- Integrated or independent controller with LCD display
- Easy routine maintenance

#### OPTIONS

- Independent control of protection ring
- 1,2,3 or 4 channel control on request
- UPS on request
- Heat jacket

#### Valve with pneumatic actuator

with solenoid valve  
with position indicator  
double action

DN mm	Ordering Number	
	ISO-K metric flange	ISO-F metric flange
63	V60-D-063-1-1-PDCOCAC-A	on request
100	V60-D-100-1-1-QJBZZAB-A	on request
160	V60-D-160-2-1-QJBBZCB-A	on request
200	on request	V60-D-200-1-1-PECECAC-A
250	on request	V60-D-250-1-1-PECECAC-A
Other size on request		

Specify control voltage

Actuator		Pneumatic
Leak rates	Valve body, seat	$< 1 \times 10^{-9}$ mbar l/s
Pressure range		$1 \times 10^{-8}$ mbar to 1.2 bar
Differential pressure on the gate in opening direction		$\leq 1.2$ 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		$> 100,000$
Open / Close time (Switch to switch)	Open Close	$< 0.3 - 0.1$ sec (Setting 0.3 sec)
Temperature	Valve body	$\leq 150^{\circ}\text{C}$
	Valve gate	$\leq 120^{\circ}\text{C}$
	Actuator	$\leq 60^{\circ}\text{C}$
	Solenoid valve	$\leq 50^{\circ}\text{C}$
Material	Valve body	ALSI 304 (1.4301)
	Valve gate	ALSI 304 (1.4301)
	Bonnet	ALSI 304 (1.4301)
	Shaft	ALSI 304 (1.4301)
	Mechanism	EN AW-6061 (3.3211)
Surface treatment	Valve body	Electro polishing
	Valve gate	Buffing
	Bonnet	Electro polishing
	Actuator	White hard anodization
Seal	Bonnet, gate	FKM (Viton <sup>®</sup> )
Feed through		O-ring shaft
Solenoid valve		24V DC or on request
Position indicator	Type	Reed switch
	Voltage	24V DC
	Current	5-40 mA
	Connector	D-Sub 9P male
Air pressure		4.5 - 6 bar
Mounting position		Any
Air failure		NA
Compress air connection		Quick connector OD 6mm
Options	<ul style="list-style-type: none"> <li>·FFKM sealing material is available</li> <li>·Other solenoid valve voltage (standard 24V DC)</li> <li>·Different valve body surface treatment</li> </ul>	