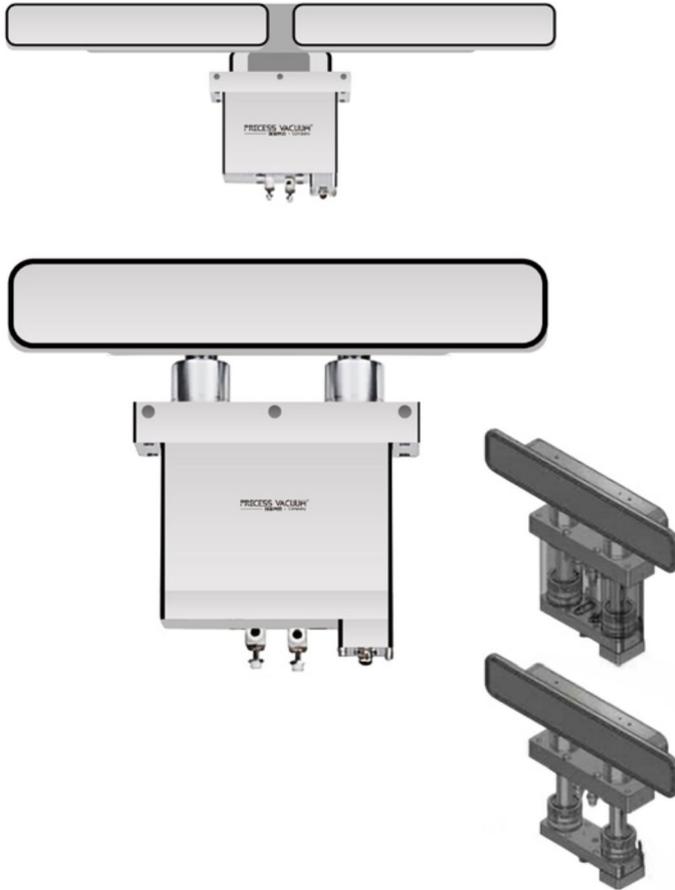


■ ATM Door

TRANSFER DOOR VALVE, SERIES V77

For load lock and process chamber isolation on the atmospheric side of SEMI production system. Also suitable for PV inline system.



APPLICATIONS

- Semiconductor processing
- Plasma Etch, CVD, sputter deposition
- Manufacturing of solar panels
- LCD/flat panel process
- All other cluster and inline vacuum systems

MAIN FEATURES

- Semi standard application (Semi E21- 94, Semi E24- 92, Semi- E21.1-1296)
- Dust seal on the vacuum side of the bonnet flange that virtually eliminates particulate from entering the bellows Mechanical lock at the close position
- Particle and vibration free
- Realization of exact L-motion
- Easy maintenance

OPTIONS

- Hard anodize
- Custom opening size available
- Various O-ring (Kalrez®, Chemraz® etc.)

ATM Door with pneumatic actuator

with position indicator
double action

SEMI E21.1 - 1296

DN mm	Ordering Number	
	blank aluminum	hard anodized aluminum
32 x 222	V77-D-313-1-1-AAAE CAB-A	on request
46 x 236	V77-D-423-1-1-AAGECBB-A	on request
50 x 336	V77-D-533-1-1-AALEFB E-A	on request
56 x 496	V77-D-643-1-1-AALAECE-A	on request
75 x 420	V77-D-753-1-1-AALAECE-A	on request
50 x 740	V77-D-533-1-1-AALEFB E-A	on request
Other size on request		

With solenoid valve is an option

Actuator		Pneumatic
Leak rates	Valve body, seat	$< 1 \times 10^{-9}$ mbar l/s
Pressure range		1×10^{-9} mbar to 1 bar
Differential pressure on the gate in opening direction		≤ 0.1 bar
Differential pressure on the gate in closing direction		≤ 1 bar
Differential pressure at the opening		≤ 0.1 bar
Life cycle until first service	Mechanism	$\geq 3,000,000$
	O-ring	$\geq 1,000,000$
Temperature	Valve body	$\leq 120^{\circ}\text{C}$
	Valve gate	$\leq 120^{\circ}\text{C}$
	Actuator	$\leq 60^{\circ}\text{C}$
Material	Valve body	EN AW-6061 (3.3211)
	Valve gate	EN AW-6061 (3.3211)
	Bonnet	EN AW-6061 (3.3211)
	Shaft	AISI 304 (1.4301)
	Mechanism	EN AW-6061 (3.3211)
	Bellow	AISI 633 (AM350)
	Bellow end piece	AISI 316L (1.4435)
Surface treatment	Valve body	Bare
	Valve gate	White hard anodization
	Bonnet	White hard anodization
	Shaft	Cr plating, buffing
	Actuator	White hard anodization
Seal	Bonnet, gate	FKM (Viton [®])
Feed through		O-ring shaft
Solenoid valve		24V DC or on request
Position indicator	Type	Micro switch
	Voltage	24V DC
	Current	5-40 mA
	Connector	D-Sub 9 pin male
Air pressure		5 - 6 bar
Mounting position		Actuator up or down
Air failure		NA
Compress air connection		Quick connector OD 4mm
Options	<ul style="list-style-type: none"> ·Customer size is available ·Twin gate design ·Hard anodized aluminum surface ·FFKM sealing material is available ·Other solenoid valve voltage (standard 24V DC) 	