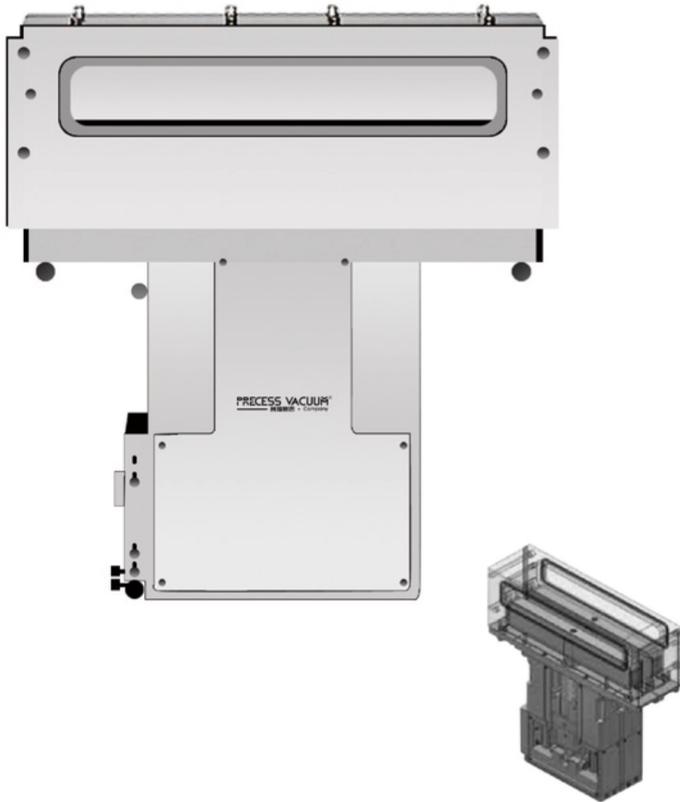


Transfer Valve

TRANSFER VALVE L-MOTION, SERIES V70

For load lock and process chamber isolation in SEMI production system. Suitable for corrosive process such as Etch or CVD.



APPLICATIONS

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

MAIN FEATURES

- Semi standard application (Semi E21- 94, Semi E24- 92, Semi- E21.1-1296)
- Low vibration. Patented L-motion link and dual shifts without springs in the actuator enable faster, smoother actuation
- Mechanical lock at the close position
- Welded bellows actuator seal
- Bonnet flange bolts are designed with retainers to eliminate bolts from falling out upon disassembly

OPTIONS

- Hard anodize
- Stainless steel solution
- Custom opening size available
- Various O-ring (Kalrez[®], Chemraz[®] etc.)

Valve A = B with pneumatic actuator

with position indicator
double action

DN	Ordering Number	
mm	blank aluminum	hard anodized aluminum
46 x 236	V70-P-423-8-1-BKBAZCB-A	on request
50 x 336	V70-P-533-8-1-BKAZCKC-A	on request
Other size on request		

With solenoid valve is an option

Valve A < B with pneumatic actuator

with position indicator
double action

DN	Ordering Number	
mm	blank aluminum	hard anodized aluminum
46 x 236	V70-P-423-1-1-CBAZCAB-B	V70-P-423-1-1-CBFZCBB-B
50 x 336	V70-P-533-8-1-CKAZCAG-A	V70-P-533-8-1-CKFZCOB-A
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 1.2 bar
Differential pressure on the gate in opening direction		≤ 1.2 bar
Differential pressure on the gate in closing direction		≤ 1.2 bar
Differential pressure at the opening		≤ 30 mbar
Life cycle until first service	Mechanism O-ring	$\geq 1,000,000$
Temperature	Valve body Valve gate Actuator	$\leq 120^{\circ}\text{C}$ $\leq 120^{\circ}\text{C}$ $\leq 60^{\circ}\text{C}$
Material	Valve body Valve gate Bonnet Shaft Mechanism Bellow Bellow end piece	EN AW-6061 (3.3211) EN AW-6061 (3.3211) EN AW-6061 (3.3211) AISI 304 (1.4301) EN AW-6061 (3.3211) AISI 633 (AM350) AISI 316L (1.4435)
Surface treatment	Valve body Valve gate Bonnet Shaft Actuator	Bare Bare Bare Bare White hard anodization
Seal	Bonnet, gate	FKM (Viton [®])
Feed through		Bellows
Solenoid valve		24V DC or on request
Position indicator	Type Voltage Current Connector	Micro switch 24V DC 5-100 mA D-Sub 9 pin male
Air pressure		4.5 - 6 bar
Mounting position		Actuator up or down
Air failure		Lock at close position
Compress air connection		Quick connector OD 6mm
Options		<ul style="list-style-type: none"> ·Hard anodized aluminum surface ·Sealing surface or groove for O-ring seal ·Screw holes outside or inside of the sealing line ·FFKM sealing material is available ·Other solenoid valve voltage (standard 24V DC)