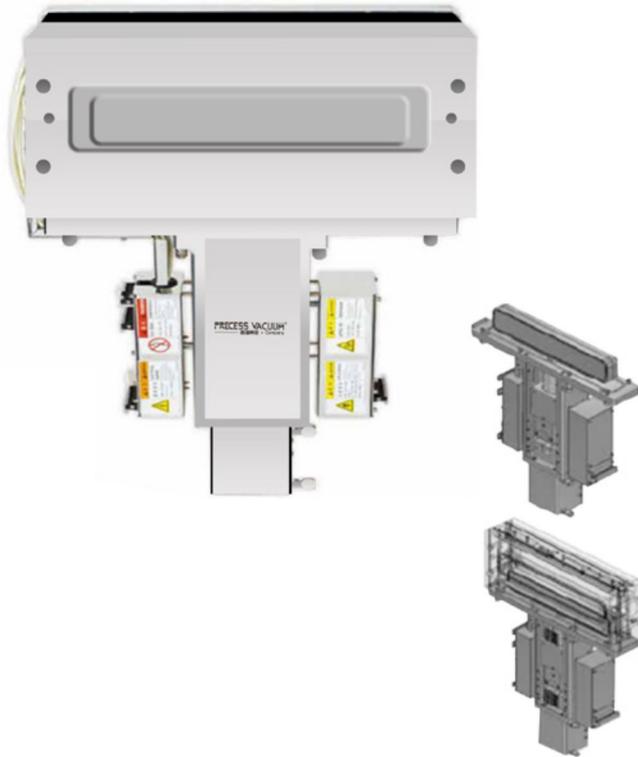


## TRANSFER VALVE

### ALL HEATING TRANSFER VALVE L-MOTION, SERIES V72

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

#### Valve A = B with pneumatic actuator

with position indicator  
double action

DN mm	Ordering Number	
	blank aluminum	hard anodized aluminum
46 x 236	on request	on request
50 x 336	on request	on request
Other size on request		

With solenoid valve is an option

#### Valve A < B with pneumatic actuator

with position indicator  
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	blank aluminum	hard anodized aluminum
46 x 236	on request	on request
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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		$1 \times 10^{-9}$ 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	Mechanism Bellows	$\geq 2,000,000$
Temperature	Valve body Actuator	$\leq 180^{\circ}\text{C}$ $\leq 150^{\circ}\text{C}$
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	FFKM (FKM Zalak 5100)
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"> <li>·Hard anodized aluminum surface</li> <li>·Sealing surface or groove for O-ring seal</li> <li>·Screw holes outside or inside of the sealing line</li> <li>·FFKM sealing material is available</li> <li>·Other solenoid valve voltage (standard 24V DC)</li> </ul>