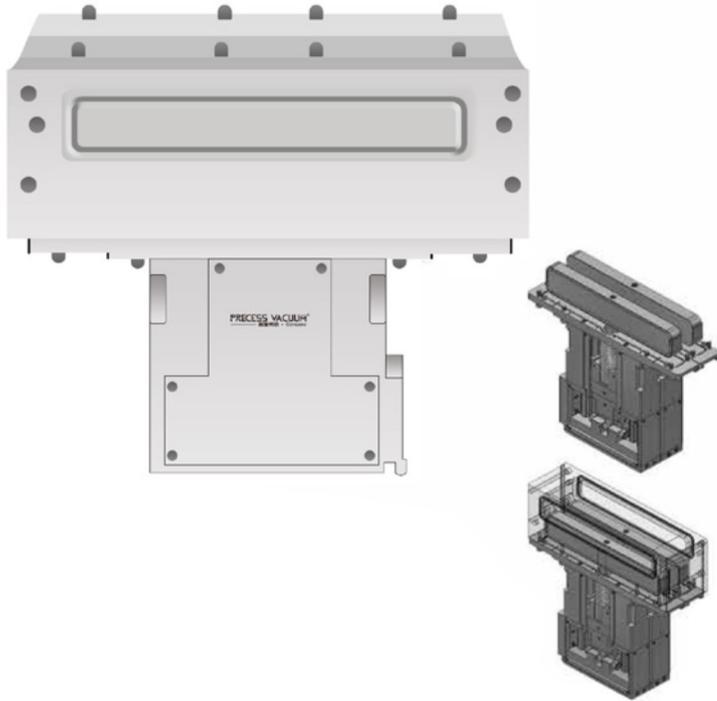


TRANSFER VALVE

DOUBLE LAYER L-MOTION, SERIES V73

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[®], 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	on request	on request
50 x 336	V73-P-533-4-1-BBAZCCB-A	V73-P-533-4-1-BBFZCEB-A
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	on request	on request
50 x 336	on request	on request
Other size on request		

With solenoid valve is an option

Actuator		Pneumatic	
Leak rates	TM Valve	$< 1 \times 10^{-9}$ mbar l/s	
	L/L Valve	$< 1 \times 10^{-9}$ 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 Bellows	$\geq 3,000,000$	
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	Anodizing	
	Bonnet	Anodizing	
	Shaft	Bare	
	Actuator	White hard anodization	
Seal	Housing	TM side	FFKM (Kalrez 9100)
		L/L side	FFKM (Kalrez 9100)
	Gate	TM side	FKM (Viton [®])
		L/L side	FFKM (Kalrez 9100)
	Vacuum		FKM (Viton [®])
	Pneumatic		FKM (Viton [®])
Feed through		Bellows	
Solenoid valve		24V DC or on request	
Position indicator	Type	Magnet position sensor	
	Voltage	24V DC	
	Current	5-100 mA	
	Connector	D-Sub 9 pin male	
Air pressure		4.5 - 6 bar	
Mounting position		Actuator up or down	
Air failure		Lock at open and 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) 		