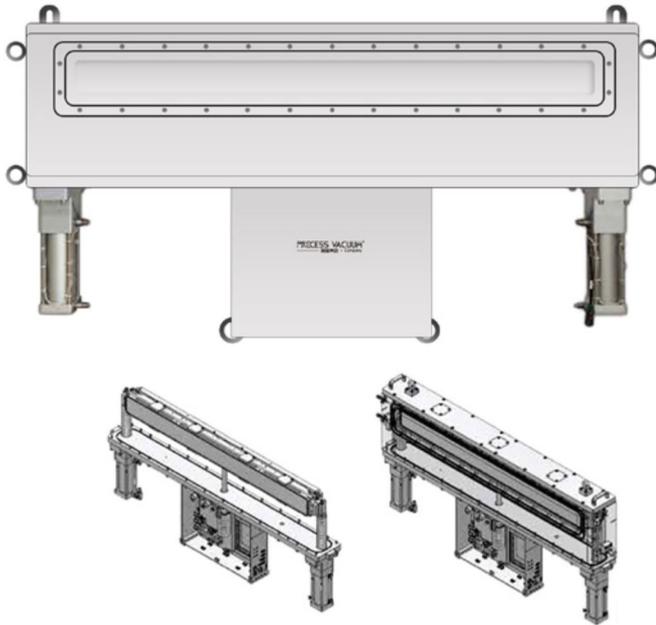


Large Transfer Valve

LARGE TRANSFER VALVE/INSERT T-MOTION, SERIES V76

For inline process chamber isolation in solar, FPD production system.



APPLICATIONS

- Solar, FPD processing
- Low shock at high operation speed
- position 3 allows to keep one chamber under vacuum while maintenance work is carried out on the valve
- LCD/flat panel processing

MAIN FEATURES

- Reduced vibration significantly by using patented T-motion sealing technology
- Mechanical lock function is applied
- Welded bellows actuator seal
- Bonnet flange bolts are designed with retainers to eliminate bolts from falling out upon disassembly
- Pneumatic actuator double action

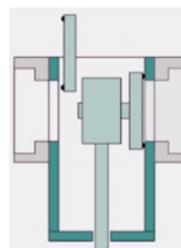
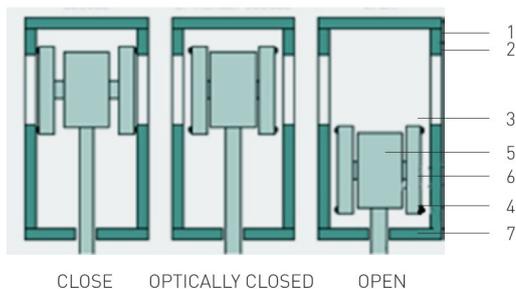
OPTIONS

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

MAIN FEATURES

Opening size	50x500mm, 100x1350mm, 110x1550mm, 250x3850mm
Actuator	Pneumatic drive, double action with position indicator
Body material	Aluminum
Feedthrough	Shaft feedthrough

FUNCTIONAL DEMONSTRATION



Service position 3

One chamber is under VACUUM

1. Top cover
2. Valve body
3. Gate
4. Gate seal
5. Horizontal actuator
6. Actuator flange
7. Vertical actuator shaft

Actuator		Pneumatic
Leak rates	Valve body, seat	$< 1 \times 10^{-7}$ mbar l/s
Pressure range		1×10^{-7} mbar to 1.2 bar
Differential pressure on the gate in opening direction		≤ 5 mbar
Differential pressure on the gate in closing direction		≤ 1 bar
Differential pressure at the opening		≤ 5 mbar
Life cycle until first service	Mechanism	$\geq 1,000,000$
	O-ring	
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-6082 (3.2315)
	Valve gate	EN AW-6082 (3.2315)
	Bonnet	EN AW-6082 (3.2315)
	Shaft	AISI 316L (1.4435)
	Mechanism	AISI 316L (1.4435)
	Bellow	AISI 633 (AM350)
Surface treatment	Bellow end piece	AISI 316L (1.4435)
	Valve body	Bare
	Valve gate	Bare
	Bonnet	Bare
	Shaft	Bare
Seal	Actuator	White hard anodization
	Bonnet, gate	FKM (Viton [®])
Feed through		Shaft feedthrough
Solenoid valve		24V DC or on request
Position indicator	Type	Micro switch
	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 close position
Compress air connection		Quick connector OD 10mm
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) 	