

## Series 075

Transfer door-valve for SEMI applications

For operation in atmospheric pressure,  
e. g. load lock chambers

No vacuum seals on actuator

Virtually particle and vibration free  
L-motion



### Gate material

aluminum or stainless steel

### Aluminum

double acting  
pneumatic actuator SEMI E21-94  
with position indicator SEMI E21.1-1296

DN (D1 x D)		Ordering numbers	
mm	inch	type U	type V
46 x 236	1.8 x 9.3	07510-UA24	07510-VA24
50 x 336	1.9 x 13.2	07512-UA24	07512-VA24

with solenoid for impulse actuation: 075 . . . . **A44** (specify control voltage)

Additional opening sizes: see «Options»

### Stainless steel

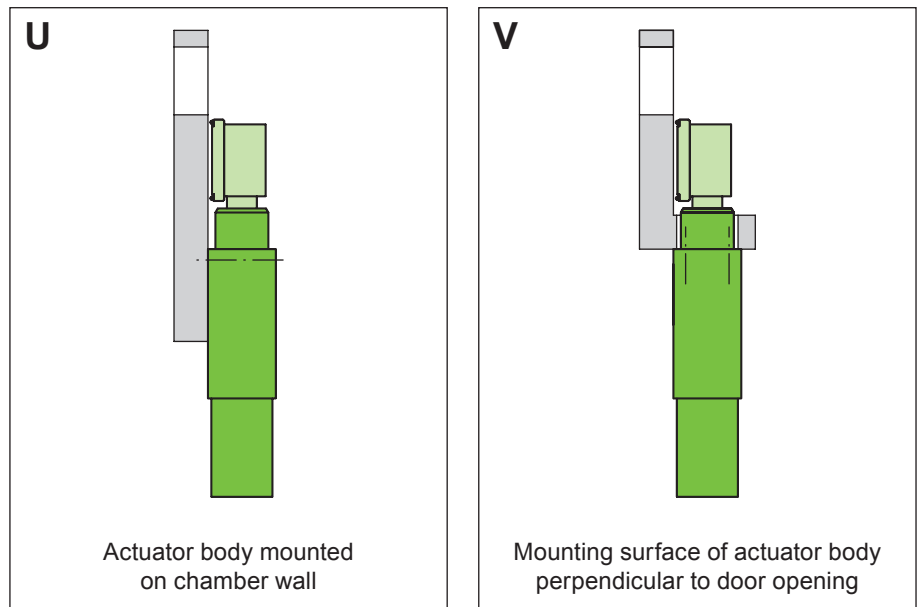
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## Door types



## Features

- L-VAT configuration (see glossary)
- Vulcanized gate seal (see glossary)
- Pneumatically locked in closed position, even without compressed air supply

## Sealing material

Gate: FKM (VITON)

## Options

### Actuator:

- Solenoid for impulse actuation 24 VDC
- Position indicator with electro-magnetic sensors and LED display
- Actuator cover kit to cover the pistons and cylinders of the actuator

### Gate:

- Gate seal O-ring
- Different opening sizes:
  - 37 x 336 / 435 / 510 mm (gate seal vulcanized)
  - 51 x 160 / 210 / 265 / 420 mm (gate seal vulcanized)
  - ≤ 80 x 160 . . . 420 mm (gate seal O-ring)
  - Other sizes on request
- Different sealing materials:
  - Fluoroelastomers (FKM)
  - Perfluoroelastomers (FFKM)
  - Silicone (VMQ)
  - Fluorosilicone (FVMQ)
- Gate shield:
  - Protection from coating
  - Protection from heating through radiation
- Distance between actuator fixation screws center line and opening center line 115 mm or 185 mm (standard 132 mm: see dimensional drawing on page 139), type U only

## Technical data

Leak rate: gate	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range	$1 \cdot 10^{-9}$ mbar to 1.1 bar (abs)
Differential pressure on the gate	
- in closing direction	1 bar
- in opening direction	≤ 0.1 bar
Differential pressure at opening	≤ 0.1 bar in either direction
Cycles until first service	≥ 3 million
Temperature <sup>1)</sup>	

operating temperature of valve	configurations		
	valve	actuator	
	gate	position indicator	solenoid
≤ 50°C	aluminum	standard	with
≤ 80°C	aluminum	standard	without
≤ 150°C	aluminum	without	without
≤ 200°C	stainless steel	without	without

### Material

- Gate: aluminum EN AW-6082 (3.2315)
- Gate: stainless steel AISI 316L (1.4404, 1.4435)

### Seal: gate

FKM (VITON)

### Air connection

- with solenoid quick connect fittings for pneumatics for tubing O.D. 4 mm
- without solenoid R 1/8" internal thread

### Position indicator: contact rating

- Voltage ≤ 50 VAC / DC
- Current ≤ 0.5 A
- Power max. 10W
- Connection 9 pin subminiature D

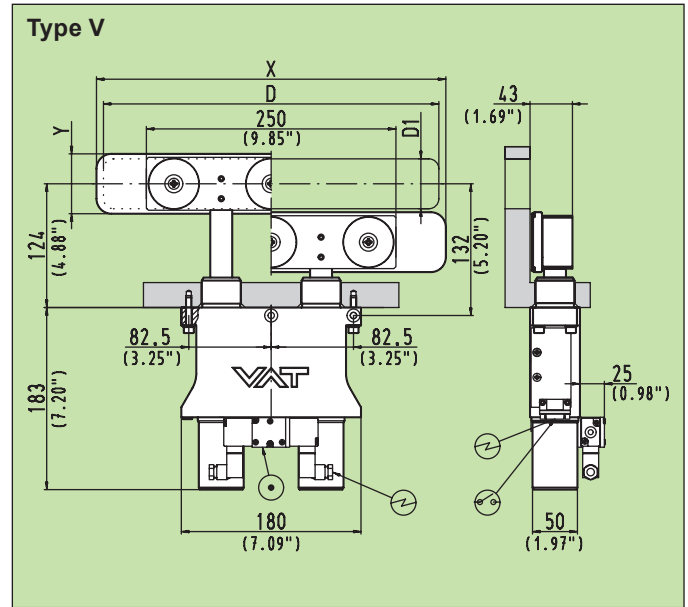
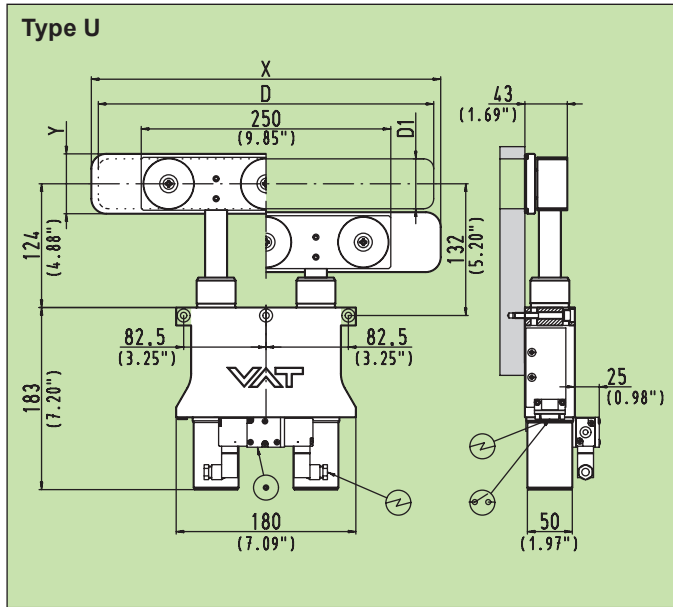
<sup>1)</sup> Maximum values: depending on operating conditions and sealing materials

### Mounting position

any

DN (D1 x D) D1 slit height D slit length		compressed air pressure min. - max. overpressure		volume of air cylinder		closing or opening time	door weight			
							aluminum		stainless steel	
mm	inch	bar	psi	l	ft <sup>3</sup>	s	kg	lbs	kg	lbs
46 x 236	1.8 x 9.3	4 - 7	55 - 100	0.25	0.007	≤1	5	11	6	13.2
50 x 336	1.9 x 13.2	4 - 7	55 - 100	0.25	0.007	≤1	5.2	11.4	6.4	14.1

Dimensions



D1 x D	mm inch	46 x 236 1.8 x 9.3	50 x 336 1.9 x 13.2
D	mm inch	236 9.29	336 13.23
D1	mm inch	46 1.81	50 1.97
X	mm inch	255 10.04	355 13.98
Y	mm inch	65 2.56	65 2.56

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