

## Series 02.4

### Main applications

FPD production systems  
up to generation 6

Suitable for use in high vacuum environment, e. g. in vapor deposition systems for organic materials



### Ordering information

**Valve with pneumatic actuator**  
double acting  
with position indicator

Opening sizes	50 × 500 mm (1.97" × 19.69") to 150 × 1250 mm (5.91" × 49.21")
Ordering numbers	on request (example: 02421-BA24- . . . )

Available dimensions:

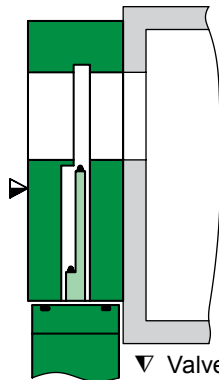
Standard sizes (X)

Special sizes (O),  
available on request

		Height mm					
		50	80	100	130	150	
Length mm	X = standard	500 / 600 /	X	X	X	X	X
		700 / 800 /	X	X	X	X	X
		900 / 1050 /	X	X	X	X	X
		1150 / 1250 /	X	X	X	X	X
O = special		1350 / 1450 /	O	O	O	O	O
		1550 / 1650 /	O	O	O	O	O
		1750	O	O	O	O	O

### Types

**Valve type A**



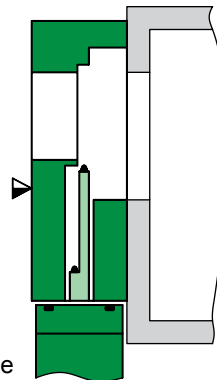
▽ Valve seat side

Opening:  
Rear side = seat side

With bonnet flange

Gate service through  
bonnet flange

**Valve type B**

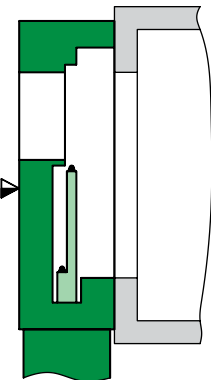


Opening:  
Rear side > seat side

With bonnet flange

Gate service through  
bonnet flange

**Valve type C**



Opening:  
Rear side > seat side

Without bonnet flange

Gate service through  
opening on rear side

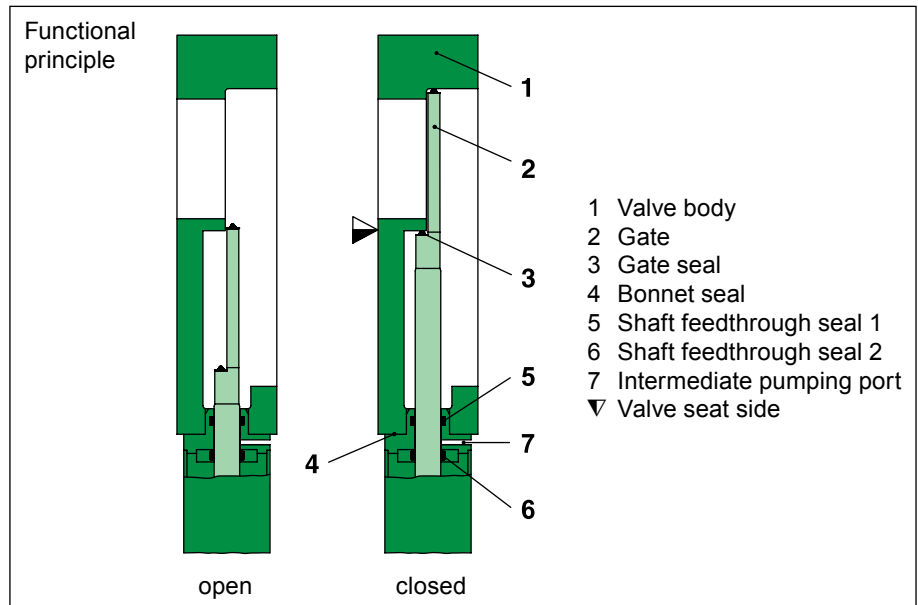
## Features

Body material: aluminum

MONOVAT sealing technology:  
see glossary

Compact design and small mounting  
dimension

- 95 mm with opening lengths up to 900 mm
- 115 mm with opening lengths up to 1250 mm



## Technical data

Further data on request

Leak rate <sup>1)</sup> : valve body, valve seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Differential pressure on the gate	$\leq 1$ bar
Differential pressure at opening	$\leq 5$ mbar
Cycles until first service <sup>1) 2)</sup>	1 million
Closing or opening time <sup>1)</sup>	$\leq 1.5$ s (with 100 mm opening height)
Temperature <sup>1)</sup>	
– Valve body, gate	$\leq 120$ °C
– Actuator, position indicator	$\leq 60$ °C
Temperature difference body/gate	$\leq 40$ °C (up to 1250 mm opening length)
Material	
– Valve body, gate	EN AW-5083 (3.3547)
– Actuator shafts	AISI 304 (1.4301) hard-chrome plated
– Differential pressure tabs	AISI 304 (1.4301)
Seal	
– Gate, flanges, feedthrough	FKM (Viton®)
Feedthrough	shaft feedthrough with intermediate pumping
Mounting position <sup>2)</sup>	actuator up, down or lateral
Position indicator: voltage	10–30VDC PNP (NPN optional)

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

<sup>2)</sup> Mounting position «actuator lateral» only possible with the option «bellows». Cycles until first service will be reduced to 0.5 million.

## Options

- Solenoid for impulse actuation 24 VDC (others on request)
- Surface treatment, e. g. aluminum, hard anodized or nickel-plated
- Other sealing materials
- Bellows
- Grounding of gate