

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:

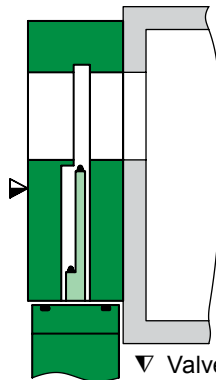
Standard sizes (X)

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



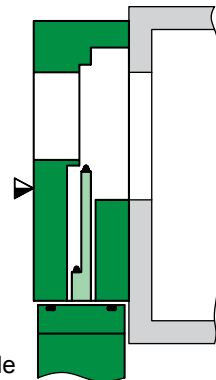
▽ Valve seat side

Opening:
Rear side = seat side

With bonnet flange

Gate service through
bonnet flange

Valve type B

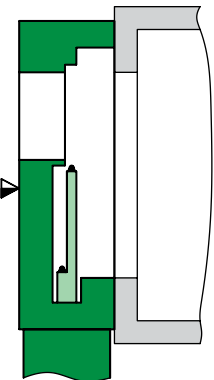


Opening:
Rear side > seat side

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

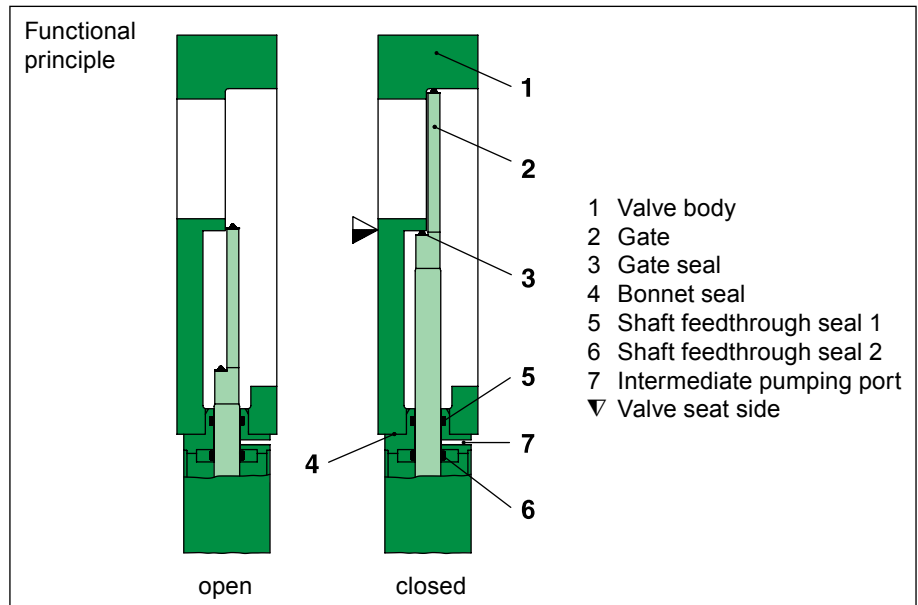
Body material: aluminum

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 ¹⁾ : valve body, valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Differential pressure on the gate	≤ 1 bar
Differential pressure at opening	≤ 5 mbar
Cycles until first service ^{1) 2)}	1 million
Closing or opening time ¹⁾	≤ 1.5 s (with 100 mm opening height)
Temperature ¹⁾	
– Valve body, gate	≤ 120 °C
– Actuator, position indicator	≤ 60 °C
Temperature difference body/gate	≤ 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 ²⁾	actuator up, down or lateral
Position indicator: voltage	10–30VDC PNP (NPN optional)

¹⁾ Maximum values: depending on operating conditions and sealing materials

²⁾ 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