

LARGE TRANSFER VALVE MONOVAT, SERIES 02.4

For FPD production systems up to generation 6. Suitable for use in high vacuum environment, e. g. in vapor deposition systems for organic materials.



Compact design and small mounting dimension

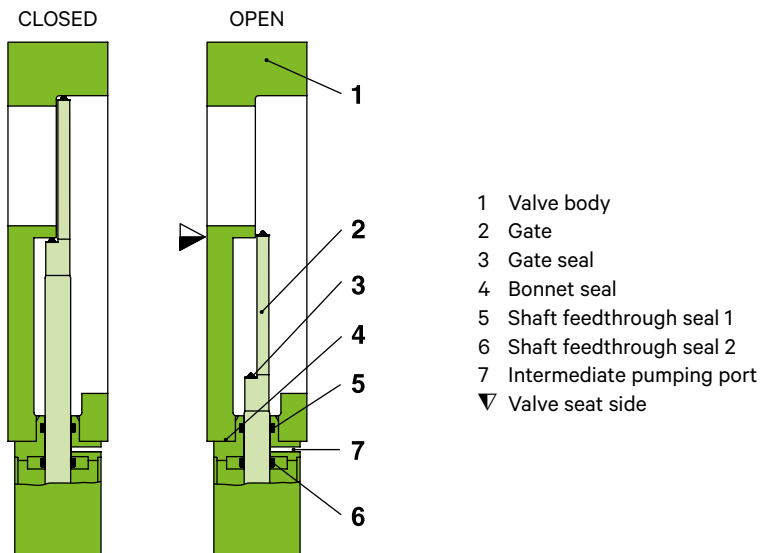
Excellent vacuum performance

Fast motion times

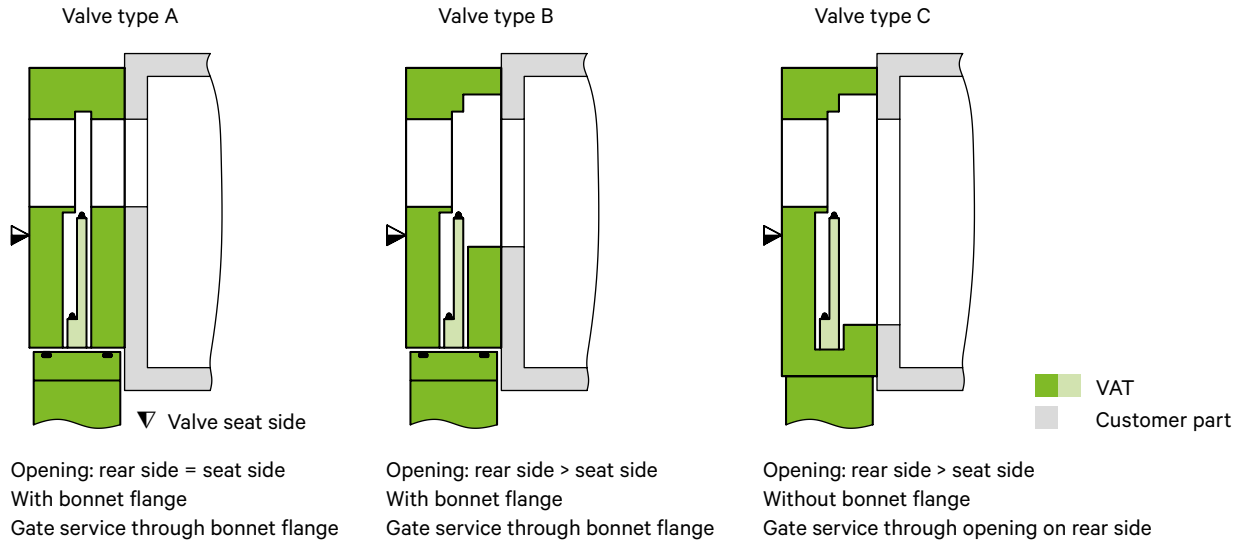
MAIN FEATURES

Opening sizes	Standard: 50 × 500 mm to 150 × 1600 mm (1.97" × 19.69" to 5.91" × 62.99") Special sizes on request
Actuator	pneumatic: double acting with position indicator
Body material	aluminum
Feedthrough	shaft feedthrough with intermediate pumping
Sealing technology	MONOVAT: see glossary

FUNCTIONAL PRINCIPLE



TYPES



TECHNICAL DATA

Leak rate ¹⁾	Valve body, valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Differential pressure on the gate	In closing / opening direction	≤ 1 bar
Differential pressure at opening		≤ 5 mbar
Cycles until first service ^{1) 2)}		1 million
Closing or opening time		≤ 1.5 s (with 100 mm opening height)
Temperature ¹⁾	Valve body, gate	≤ 120 °C
	Actuator, position indicator	≤ 60 °C
Temperature difference body / gate ³⁾	Small sizes	≤ 40 °C
	Large sizes ³⁾	≤ 25 °C
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 – 30 V DC PNP (NPN optional)

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

²⁾ Mounting position «actuator lateral»: cycles until first service will be reduced to 0.5 million.

³⁾ Large size = valve opening > 150 mm in height or > 1250 mm in length. If any side of the valve opening exceeds this size, the temperature difference body/gate is limited to 25 °C.

OPTIONS, CUSTOMIZED SOLUTIONS

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

ORDERING INFORMATION

Ordering numbers on request (example: 02421-BA24- . . .)