Series 02.7

Main applications
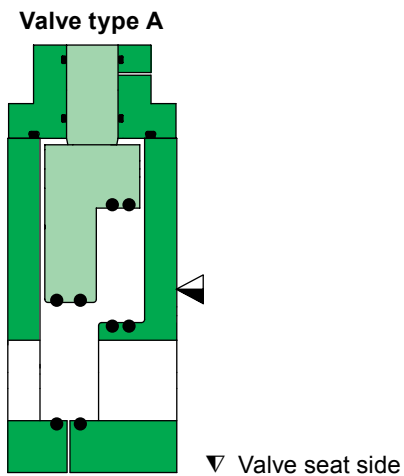
Web/foil coating systems

Ordering information

Valve with pneumatic actuator
double acting
with position indicator

Opening sizes	50 × 300 mm (1.97" × 11.81") to 50 × 1250 mm (1.97" × 49.21")
Ordering numbers	on request (example: 0270X-AA24- . . . .)

Type

Valve type A

▽ Valve seat side

Opening:
Rear side = seat side

With bonnet flange
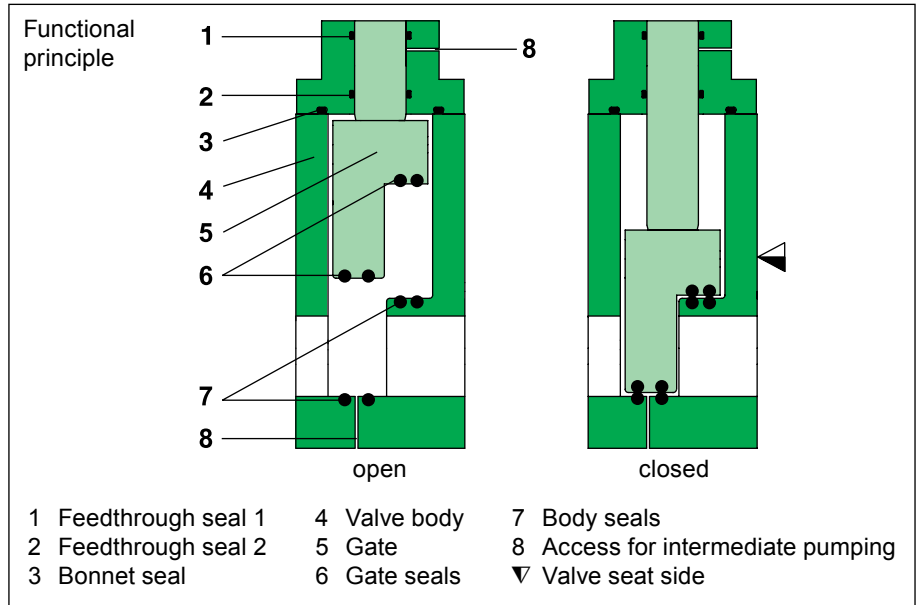
Gate service through
bonnet flange

Features

Body material:
aluminum or stainless steel

MONOVAT sealing technology:
see glossary

No damage of the foil due to the
sophisticated sealing technology

Excellent sealing performance and high
safety due to double sealing and inter-
mediate pumping

Functional principle

1 Feedthrough seal 1	4 Valve body	7 Body seals
2 Feedthrough seal 2	5 Gate	8 Access for intermediate pumping
3 Bonnet seal	6 Gate seals	▽ Valve seat side

D

Technical data

Further data on request

Leak rate [1] [2]: valve body, valve seat	$< 1 \cdot 10^{-5}$ mbar ls^{-1}
Differential pressure on the gate	≤1 bar
Differential pressure at opening	≤5 mbar
Cycles until first service [2]	10 000
Closing or opening time [2]	≤1.5 s (at 50 mm opening height)
Temperature [2]	
– Valve body, gate	
- aluminum	≤120 °C
- stainless steel	≤150 °C
– Actuator, position indicator	≤ 80 °C
Temperature difference body / gate	≤ 25 °C
Material	
– Valve body, gate	
- aluminum	EN AW-5083 (3.3547)
- stainless steel	AISI 304 (1.4301)
– Actuator shafts	AISI 304 (1.4301)
Seal	
– Gate, flanges, feedthrough	FKM (Viton®)
Feedthrough	shaft feedthrough with intermediate pumping
Mounting position	actuator up or down
Position indicator: voltage	10 – 30 V DC PNP (NPN optional)
Tensile force of the foil on the gate	max. 0.5 N per mm (e. g. width of foil 300 mm, max. tensile force 150 N)

[1] 4-fold sealing, stainless steel foil, thickness of foil 0.1 mm

[2] Maximum values: depending on operating conditions and sealing materials

Options

– Solenoid for impulse actuation 24 V DC (others on request)

– Surface treatment, e. g. aluminum, hard anodized or nickel-plated

– Bellows