



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV gate valve, Series 108, DN 100 (ID 4'')
Ordering No. 10840-PE28

Description

Flange	ISO-F 100
Actuator	pneumatic double acting, with 3-position actuator – with position indicator
Feedthrough	Bellows

Technical data

Leak rate	– Valve body	$< 5 \cdot 10^{-10}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-10}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		≤ 1.6 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		1740 ls ⁻¹
Cycles until first service		50 000 (unheated and under clean conditions)
Temperature	– Valve body	≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h)
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 200 °C
	– Position indicator	≤ 80 °C
Heating and cooling rate		50 °C h ⁻¹
Material (main components)	– Valve body	AISI 304 (1.4301)
	– Mechanism	AISI 316L (1.4404), AISI 304 (1.4301)
	– Bellows	AISI 316L (1.4404, 1.4435)
Seal	– Bonnet	metal
	– Gate	FKM (Viton®), vulcanized
	– Actuator	FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.11 l / 0.0038 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		1/8" ISO / NPT
Actuation time	– closing	1.2 s
	– opening	1.2 s
Weight		12 kg / 26 lbs

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Behavior in case of compressed
air pressure drop

- Valve closed
- Valve open
- Middle position

valve remains closed
undefined
undefined

Behavior in case of power failure

- Valve closed
- Valve open
- Middle position

depending on customer installation
depending on customer installation
depending on customer installation

Position indicator

Type

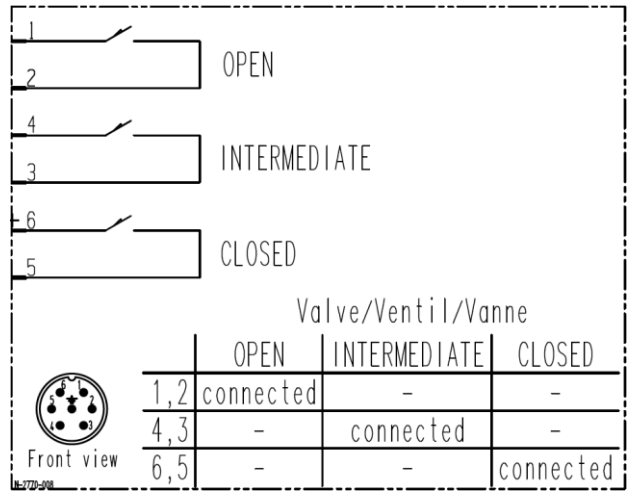
Micro switch

Voltage

≤ 50 V AC / DC

Current max.

≤ 1.2 A



Wiring diagram