



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 110, DN 250 (ID 10'')
Ordering No. 11048-TE44-0003

Description

Flange	ASA-LP 250
Actuator	Pneumatic, double acting – with solenoid valve – with position indicator
Feedthrough	Bellows

Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
Pressure range		$1 \cdot 10^{-8} \text{ mbar}$ to 1.2 bar (abs)
Differential pressure on the gate		$\leq 1.2 \text{ bar}$
Differential pressure at opening		$\leq 30 \text{ mbar}$
Conductance (molecular flow)		$19\,990 \text{ ls}^{-1}$
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Solenoid valve – Position indicator	$\leq 150 \text{ }^{\circ}\text{C}$ $\leq 80 \text{ }^{\circ}\text{C}$ $\leq 50 \text{ }^{\circ}\text{C}$ $\leq 50 \text{ }^{\circ}\text{C}$
Heating and cooling rate		$50 \text{ }^{\circ}\text{C h}^{-1}$
Material (main components)	– Valve body – Mechanism – Bellows	AISI 304 (1.4301) AISI 304 (1.4301) AISI 633 (AM350)
Seal	– Bonnet – Gate – Actuator	FKM (Viton®) FKM (Viton®), O-ring FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.35 l / 0.0124 ft ³
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		G $\frac{1}{8}$ " (½" NPT for USA)
Actuation time	– Closing – Opening	4.5 s 4.5 s

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Behavior in case of compressed
air pressure drop

- Valve closed
- Valve open

valve remains closed
undefined

Behavior in case of power failure

- Valve closed
- Valve open

valve remains closed
valve closes

Electrical connections

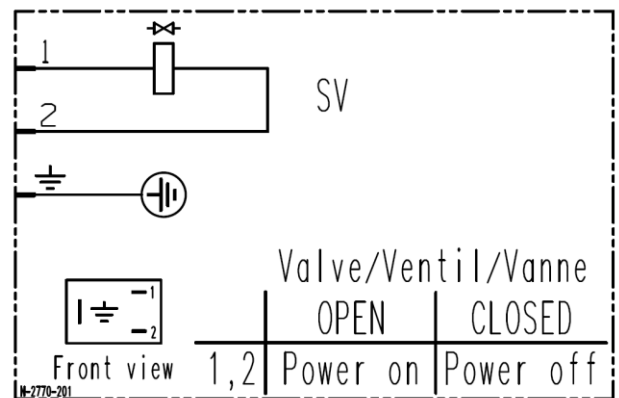
Solenoid valve

Type

4/2 way

Voltage

Defined by order



Wiring diagram

Position indicator

Type

PNP NO with LED

Voltage

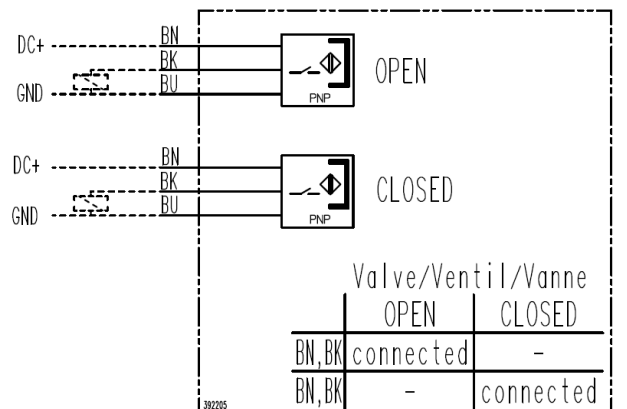
10 - 30 V DC

Current max.

max. 200 mA

Cable length

approx. 2 meter



Wiring diagram