VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Description

Flange	ISO-F 100
Actuator	Pneumatic, double acting
	– with solenoid valve
	– with position indicator
Feedthrough	Rotary feedthrough

Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		$1 \cdot 10^{-8}$ mbar to 2 bar (abs)
Differential pressure on the gate		$\leq$ 2 bar
Differential pressure at opening		$\leq$ 30 mbar
Conductance (molecular flow)		1 740 ls^{-1}
Cycles until first service		200 000 Unheated and under clean conditions
Temperature	– Valve body	$\leq$ 150 °C
(Maximum values: depending	– Pneumatic actuator	$\leq$ 50 °C
on operating conditions and	– Solenoid valve	$\leq$ 50 °C
sealing materials)	– Position indicator	$\leq$ 80 °C
Heating and cooling rate		50 °C h^{-1}
Material (main components)	– Valve body	AISI 304 (1.4301)
	– Mechanism	AISI 304 (1.4301)
Seal	– Bonnet	FKM (Viton®), Vulcanized
	– Gate	FKM (Viton®), O-ring
	– Actuator	FKM (Viton®), NBR
Mounting position		Any
Volume of pneumatic actuator		0.13 l / 0.005 ft^3
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G⅛'' (⅛'' NPT for USA)
Actuation time	– closing	1.5 s
	– opening	1.5 s
Weight		15 kg / 33 lbs

Behavior in case of compressed air pressure drop	– Valve closed	valve remains closed
	– Valve open	undefined
Behavior in case of power failure	– Valve closed	valve remains closed
	– Valve open	valve closes

Electrical connections

Solenoid valve

Type	5/2 way
Voltage	Defined by order

Wiring diagram
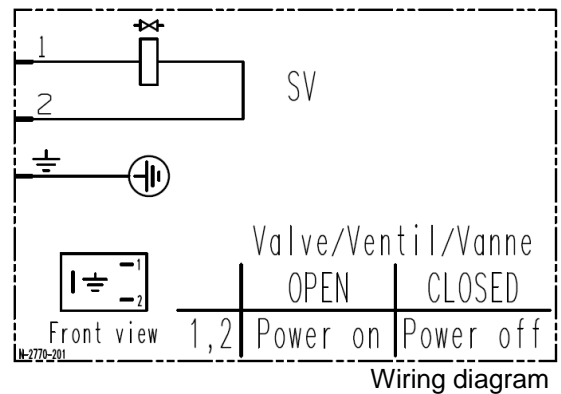
Position indicator

Type	Micro switch	
Voltage	≤ 250 V AC	≤ 50 V DC
Current max.	≤ 5 A	≤ 3 A

Wiring diagram