



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum angle valve, Series 244, DN 63 (ID 2 1/2")
Ordering No. 24436-QE41-0003

Description

Flange	ISO-K 63
Actuator	Pneumatic, single acting with closing spring – with solenoid valve – with position indicator “open” and “closed”
Feedthrough	Shaft feedthrough

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		$1 \cdot 10^{-7} \text{ mbar}$ to 5 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	$\leq 2 \text{ bar}$ $\leq 4 \text{ bar}$
Differential pressure at opening		$\leq 1 \text{ bar}$
Conductance (molecular flow)		160 ls^{-1}
Closing time		$\leq 0.7 \text{ sec.}$
Cycles until first service (Tmax 80°C, under clean conditions)		3 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Solenoid valve – Position indicator	$\leq 150 \text{ °C}$ $\leq 120 \text{ °C}$ $\leq 80 \text{ °C}$ $\leq 80 \text{ °C}$
Material	– Valve body – Actuator – Plate – Shaft feedthrough	AISI 316L (1.4404) Aluminum AISI 316L (1.4435 ESU) AISI 304 (1.4301)
Seal	– Bonnet O-ring – Plate O-ring – Actuator O-ring	FKM (Viton®) FKM (Viton®) FKM (Viton®)
Weight		1.7 kg / 3.75 lbs
Mounting position		any
Volume of pneumatic actuator		0.112 l / 0.0040 ft ³
Compressed air min. – max. overpressure		4 – 8 bar / 60 – 115 psi
Compressed air connection		female G1/8"

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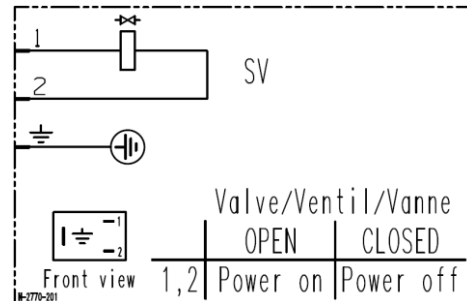
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Electrical connections

Solenoid valve

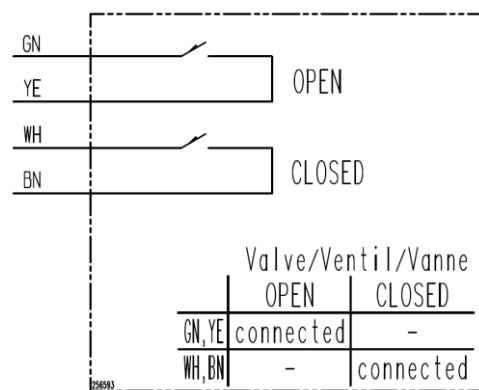
Type	3/2-way
Voltage	See solenoid
Power	See solenoid
Connector	Rectangle plug, Type B (DIN standard)
Cable	Ø6 – 8 mm



Wiring diagram

Position indicator

Type	Micro switch
Voltage	≤ 50 V AC / DC
Current	5 – 100 mA
Short circuit protected	No
Connection	Cable, 4 wires
Cable length	500 mm
Cable cross section	0.25 mm ²



Wiring diagram