



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV angle valve

Series 264, DN 100 (ID 4")

Ordering No. 26440-QA41-CIP1

Description

Flange	ISO-K 100
Actuator	Pneumatic, single acting with closing spring – with solenoid valve – with position indicator
Feedthrough	Bellows
Options	Solenoid: common connector with position indicator; position indicator: with plug 7 pin; assignment customer specific; compressed air connection: plug- in connection; 6mm;

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 2 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	$\leq 1.2 \text{ bar}$ $\leq 2 \text{ bar}$
Differential pressure at opening		$\leq 1 \text{ bar}$ [1 bar with reduced number of cycles]
Conductance (molecular flow)		440 ls^{-1}
Actuation time	– Closing – Opening	$\leq 1 \text{ sec.}$ $\leq 1 \text{ sec.}$
Cycles until first service (tested at room temp. under clean and static vacuum conditions)		1 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Solenoid valve – Position indicator	$\leq 150 \text{ }^{\circ}\text{C}$ $\leq 120 \text{ }^{\circ}\text{C}$ $\leq 50 \text{ }^{\circ}\text{C}$ $\leq 80 \text{ }^{\circ}\text{C}$
Material	– Valve body – Actuator – Plate – Bellows	Aluminum (EN AC-42000) Aluminum AISI 316L (1.4404) AISI 316 Ti (1.4571)
Seal	– Bonnet O-ring – Plate O-ring – Actuator O-ring	FKM (Viton®) FKM (Viton®) FKM (Viton®)
Weight		9 kg / 20 lbs
Mounting position		any
Volume of pneumatic actuator		0.3 l / 0.01 ft ³
Compressed air min. – max. overpressure		4.5 – 7 bar / 65 – 102 psi
Compressed air connection		plug-in connection Ø6mm

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Behavior in case of compressed
air pressure drop

- Valve closed
- Valve opened
- During actuation

Valve remains closed and leaktight
Valve closes leaktight
Valve closes leaktight

Behavior in case of power failure

- Valve closed
- Valve opened
- During actuation

Valve remains closed and leaktight
Valve closes leaktight
Valve closes leaktight

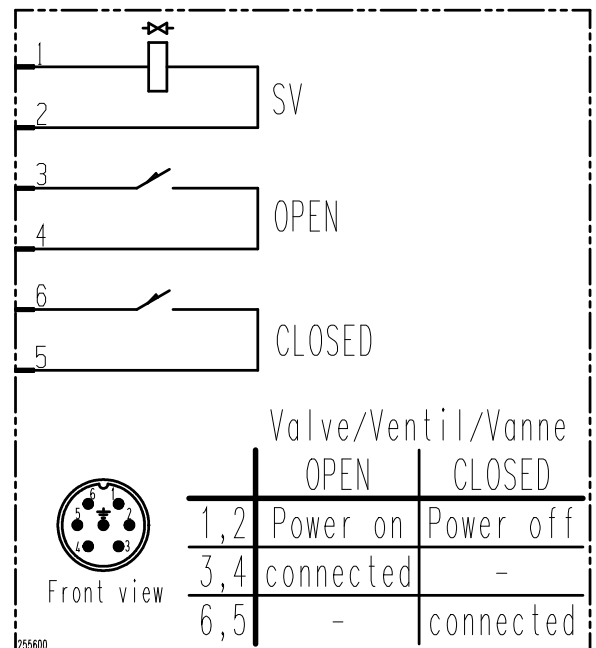
Electrical connection

Position indicator

Type	Micro switch
Voltage	≤ 50 V AC / DC
Current	5...100 mA
Short circuit protected	No
Connection	Plug 7 pin, male

Solenoid valve

Type	3/2 way
Voltage	See label on solenoid
Connection type	Plug 7 pin, male
Additional feature	LED orange; overvoltage protection; adjustable emergency operation; silencer



Wiring diagram

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