



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**HV angle valve**  
**Series 264, DN 160 (ID 6")**  
**Ordering No. 26444-QA31-0001**

### Description

Flange	ISO-K 160
Actuator	Pneumatic, single acting with closing spring – with solenoid valve – without position indicator
Feedthrough	Bellows

### Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup> $< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-8}$ mbar to 2 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	$\leq 1.2$ bar $\leq 2$ bar
Differential pressure at opening		$\leq 1$ bar [1 bar with reduced number of cycles]
Conductance (molecular flow)		1000 ls <sup>-1</sup>
Actuation time	– Closing – Opening	$\leq 1.5$ sec. $\leq 1.5$ 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	$\leq 150$ °C $\leq 120$ °C $\leq 50$ °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		14 kg / 31 lbs
Mounting position		any
Volume of pneumatic actuator		0.65 l / 0.023 ft <sup>3</sup>
Compressed air min. – max. overpressure		4.5 – 7 bar / 65 – 102 psi
Compressed air connection		G $\frac{1}{8}$ " female
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

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Behavior in case of power failure

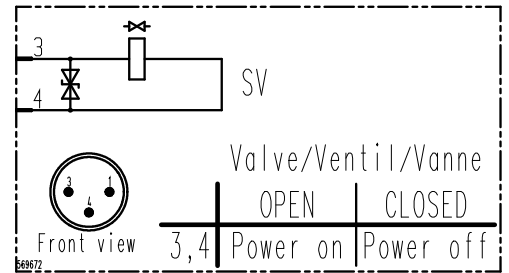
- Valve closed
- Valve opened
- During actuation

Valve remains closed and leaktight  
Valve closes leaktight  
Valve closes leaktight

### Electrical connection

#### Solenoid valve

Type 3/2 way  
Voltage See label on solenoid  
Connection type plug, male M8x1  
Additional feature LED orange; overvoltage protection; adjustable emergency operation



Wiring diagram

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