



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV angle valve
Series 264, DN 100 (ID 4'')
Ordering No. 26440-QE21-0001

Description

Flange	ISO-K 100
Actuator	Pneumatic, single acting with closing spring – without solenoid valve – with position indicator
Feedthrough	Bellows

Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹ $< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-8}$ mbar to 2 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	≤ 1.2 bar ≤ 2 bar
Differential pressure at opening		≤ 1 bar [1 bar with reduced number of cycles]
Conductance (molecular flow)		440 ls ⁻¹
Actuation time	– Closing – Opening	≤ 1 sec. ≤ 1 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 – Position indicator	≤ 150 °C ≤ 120 °C ≤ 80 °C
Material	– Valve body – Actuator – Plate – Bellows	AISI 316L (1.4404) 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		10 kg / 22 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		1/8" ISO/NPT 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

Created by: LIN	Release date: 08.02.2013	1/2
Modified by:	Release date:	600086EA



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Behavior in case of power failure

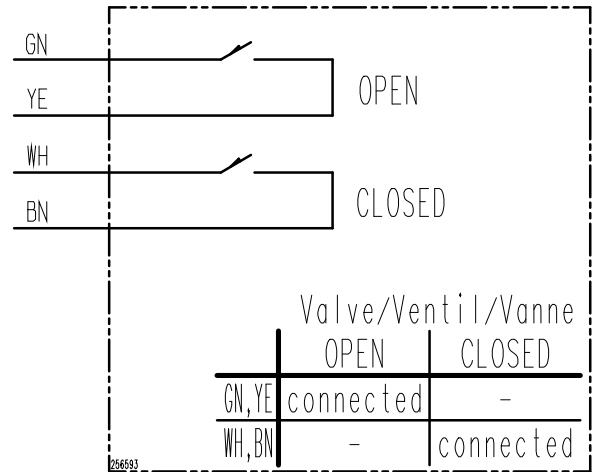
- Valve closed
- Valve opened
- During actuation

Valve remains closed and leaktight
Depending on customer installation
Depending on customer installation

Electrical connection

Position indicator

Type: Micro switch
Voltage: ≤ 50 V AC / DC
Current: 5...100 mA
Short circuit protected: No
Connection: cable, 4 wire
Cable length: 500 mm
Wire cross section: 0.25 mm²



Wiring diagram

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