



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum angle valve
Series 244, DN 160 (ID 6")
Ordering No. 24444-QA24-0001

Description

Flange	ISO-K 160
Actuator	Pneumatic, double acting – without solenoid valve – with position indicator
Feedthrough	Shaft feedthrough

Technical data

Leak rate (static)	– Valve body – Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹ $< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-7}$ 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)		1000 ls ⁻¹
Actuation time	– Closing – Opening	≤ 1.5 sec. ≤ 1.5 sec.
Cycles until first service (Tmax 80°C, under clean conditions)		2 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 – Shaft feedthrough	Aluminum (EN AC-42000) Aluminum Aluminum (EN AW 6082) Aluminum (EN AW 6082)
Seal	– Bonnet O-ring – Plate O-ring – Feedthrough O-ring – Actuator O-ring	FKM (Viton®) FKM (Viton®) FKM (Viton®) FKM (Viton®)
Weight		12 kg / 26.5 lbs
Mounting position		any
Volume of pneumatic actuator		0.35 l / 0.012 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	depending on customer installation depending on customer installation depending on customer installation

Created by: LIN	Release date: 19.11.2013	1/2
Modified by:	Release date:	603622EA



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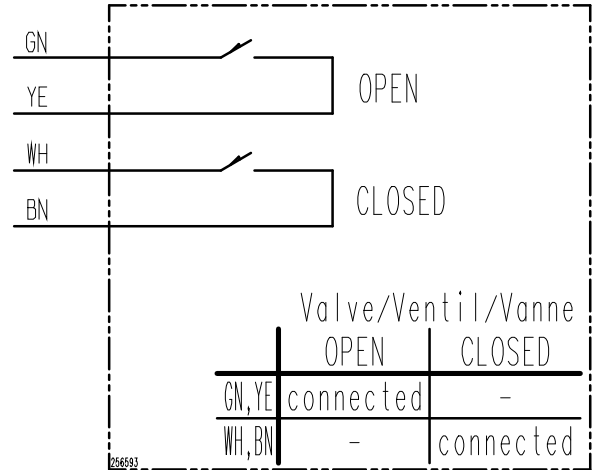
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Behavior in case of power failure – Valve closed depending on customer installation
– Valve opened depending on customer installation
– During actuation depending on customer installation

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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