



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum angle valve
Series 244, DN 160 (ID 6")
Ordering No. 24444-QE24-0001

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 | AISI 316L (1.4404) Aluminum AISI 316L (1.4404) AISI 304 (1.4301) |
| Seal | – Bonnet O-ring – Plate O-ring – Feedthrough O-ring – Actuator O-ring | FKM (Viton®) FKM (Viton®) FKM (Viton®) FKM (Viton®) |
| Weight | | 15 kg / 33 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: 25.02.2013 | 1/2 |
| Modified by: | Release date: | 600835EA |



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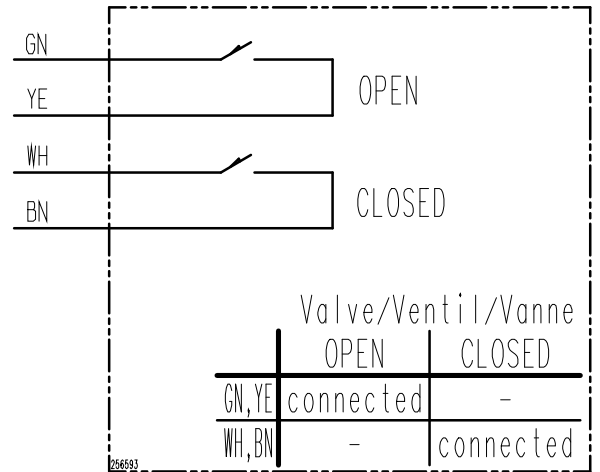
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Behavior in case of power failure – Valve closed depending on customer installation
 – Valve opened depending on customer installation
 – During actuation depending on customer installation

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