



VAT Vakuumentile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum gate valve, Series 121, DN 320 (ID 12'')
Ordering No. 12150-PA24

Description

| | |
|-------------|---|
| Flange | ISO-F 320 |
| Actuator | Pneumatic, double acting – with position indicator |
| Feedthrough | Shaft feedthrough |

Technical data

| | | |
|---|----------------------|---|
| Leak rate | – Valve body | $< 1 \cdot 10^{-9}$ mbar ls ⁻¹ |
| | – Valve seat | $< 1 \cdot 10^{-9}$ mbar ls ⁻¹ |
| Pressure range | | $1 \cdot 10^{-7}$ mbar to 1.2 bar (abs) |
| Differential pressure on the gate | | ≤ 1.2 bar |
| Differential pressure at opening | | ≤ 30 mbar |
| Conductance (molecular flow) | | 33 000 ls ⁻¹ |
| Cycles until first service | | 100 000 (unheated and under clean conditions) |
| Temperature | – Valve body | ≤ 120 °C |
| (Maximum values: depending on operating conditions and sealing materials) | – Actuator | ≤ 80 °C |
| | – Position indicator | ≤ 80 °C |
| Heating and cooling rate | | 30 °C h ⁻¹ |
| Material | – Valve body | EN AC-42100 (3.2371) |
| | – Mechanism | EN AW-6082 (3.2315) |
| Seal | – Bonnet | FKM (Viton®) |
| | – Gate | FKM (Viton®), O-ring |
| | – Actuator | FKM (Viton®), NBR (BUNA N®) |
| Mounting position | | any |
| Volume of pneumatic actuator | | 2.8 l / 0.099 ft ³ |
| Compressed air | | 4–7 bar / 58–102 psi |
| min. – max. overpressure | | |
| Compressed air connection | | 1/8" ISO-NPT |
| Actuation time | – closing | 7.0 s |
| | – opening | 7.0 s |
| Weight | | 40 kg / 88 lbs |

| | | |
|-----------------|--------------------------|-----------------|
| Created by: SON | Release date: 2013-07-08 | 1 of 2 |
| Modified by: | Release date: | 228575EA |



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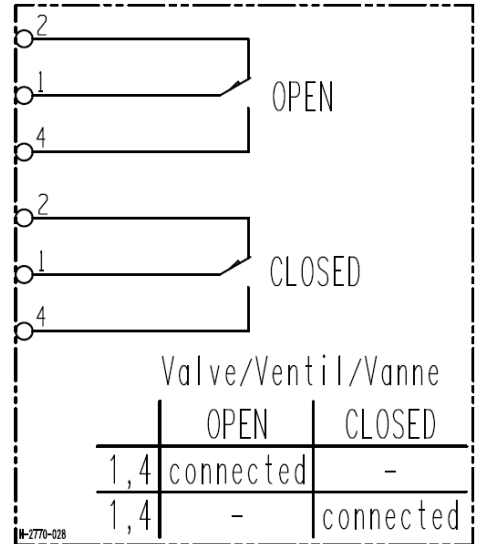
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- | | | |
|--|----------------|--------------------------------------|
| Behavior in case of compressed air pressure drop | - Valve closed | - valve remains closed |
| | - Valve open | - undefined |
| Behavior in case of power failure | - Valve closed | - depending on customer installation |
| | - Valve open | - depending on customer installation |

Position indicator

| | |
|--------------|-------------------------|
| Type | Micro Switch |
| Voltage | ≤ 250 V AC ≤ 50 V DC |
| Current max. | ≤ 2.0 A ≤ 1.2 A |



Wiring diagram