



VAT Vakuumentile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 111, DN none
Ordering No. 11148-UE44

Description

| | |
|-------------|--|
| Flange | CF-F UNF 250 |
| Actuator | pneumatic, double acting – with 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 1.2 bar (abs) |
| Differential pressure on the gate | | ≤ 1.2 bar |
| Differential pressure at opening | | ≤ 30 mbar |
| Conductance (molecular flow) | | 21 690 ls ⁻¹ |
| Cycles until first service | | 200 000 (unheated and under clean conditions) |
| Temperature (Maximum values: depending on operating conditions and sealing materials) | – Valve Body – Actuator – Solenoid valve – Position indicator | ≤ 150 °C (bake-out max. 24h) ≤ 120 °C ≤ 50 °C ≤ 80 °C |
| Heating and cooling rate | | 50 °C h ⁻¹ |
| Material (main components) | – Valve Body – Mechanism – Bellows – Bushing | AISI 304 (1.4301) AISI 316L (1.4404), AISI 304 (1.4301) AISI 316L (1.4404, 1.4435) Hydrocarbonate |
| Seal | – Bonnet – Gate – Actuator | FKM (Viton®) FKM (Viton®), O-ring FKM (Viton®), NBR |
| Mounting position | | any |
| Volume of pneumatic actuator | | 0.35 l / 0.0122 ft ³ |
| Compressed air min. – max. overpressure | | 5 – 7 bar / 73 – 102 psi |
| Compressed air connection | | G $\frac{1}{8}$ " (½" NPT for USA) |
| Actuation time | – closing – opening | 4 s 4 s |
| Weight | | 53 kg / 117 lbs |
| Behavior in case of compressed air pressure drop | – Valve closed – Valve open | valve remains closed undefined |
| Behavior in case of power failure | – Valve closed – Valve open | valve remains closed valve closes |

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| Created by: SAVI | Release date: 17.06.2021 | 1/2 |
| Modified by: | Release date: | 1096121EA |



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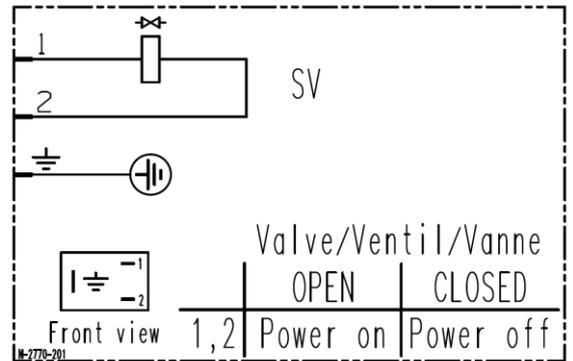
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Electrical connections

Solenoid valve

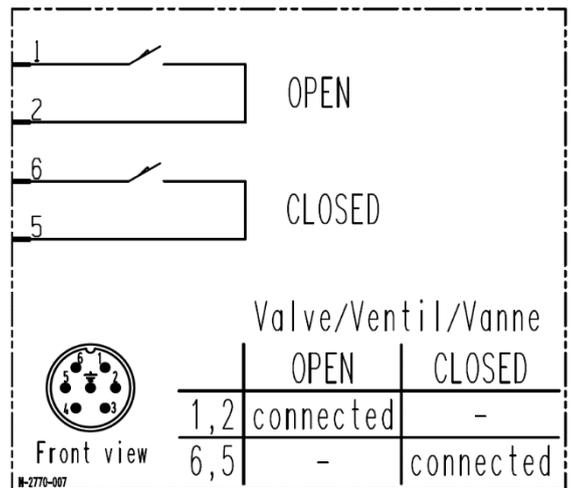
Type 4/2 way
Voltage Defined by order



Wiring diagram

Position indicator

Type Micro switch
Voltage ≤ 50 V AC / DC
Current max. ≤ 1.2 A



Wiring diagram

| | | |
|------------------|--------------------------|------------------|
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