



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV gate valve, Series 108, DN 250 (ID 10'')
Ordering No. 10848-JE28

Description

| | |
|-------------|--|
| Flange | JIS 250 |
| Actuator | pneumatic double acting, with 3-position actuator – with position indicator |
| Feedthrough | Bellows |

Technical data

| | | |
|---|----------------------|---|
| Leak rate | – Valve body | $< 5 \cdot 10^{-10}$ mbar ls ⁻¹ |
| | – Valve seat | $< 1 \cdot 10^{-9}$ mbar ls ⁻¹ |
| Pressure range | | $1 \cdot 10^{-10}$ 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 | | 50 000 (unheated and under clean conditions) |
| Temperature | – Valve body | ≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h) |
| (Maximum values: depending on operating conditions and sealing materials) | – Actuator | ≤ 200 °C |
| | – Position indicator | ≤ 80 °C |
| Heating and cooling rate | | 50 °C h ⁻¹ |
| Material (main components) | – Valve body | AISI 304 (1.4301) |
| | – Mechanism | AISI 316L (1.4404), AISI 304 (1.4301) |
| | – Bellows | AISI 316L (1.4404, 1.4435) |
| Seal | – Bonnet | metal |
| | – Gate | FKM (Viton®), O-ring |
| | – Actuator | FKM (Viton®), NBR |
| Mounting position | | any |
| Volume of pneumatic actuator | | 0.35 l / 0.0122 ft ³ |
| Compressed air | | 5 – 7 bar / 73 – 102 psi |
| min. – max. overpressure | | |
| Compressed air connection | | 1/8" ISO / NPT |
| Actuation time | – closing | 4 s |
| | – opening | 4 s |
| Weight | | 55 kg / 120 lbs |

| | | |
|------------------|--------------------------|-----------------|
| Created by: MAEM | Release date: 2015-02-23 | 1 of 2 |
| Modified by: | Release date: | 779321EA |



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Behavior in case of compressed air pressure drop

- Valve closed
- Valve open
- Middle position

valve remains closed
undefined
undefined

Behavior in case of power failure

- Valve closed
- Valve open
- Middle position

depending on customer installation
depending on customer installation
depending on customer installation

Position indicator

Type

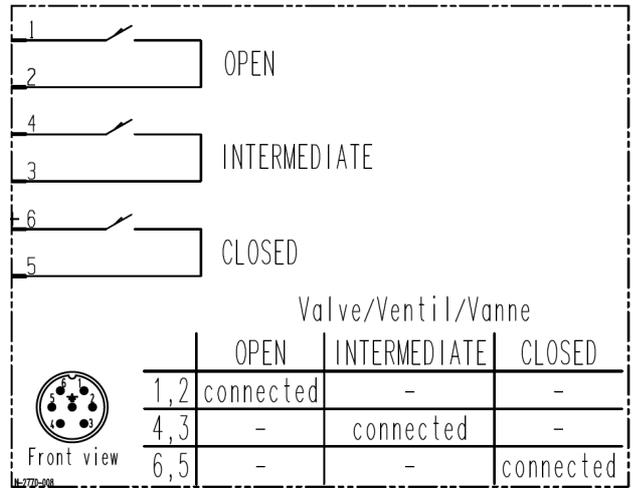
Micro switch

Voltage

≤ 50 V AC / DC

Current max.

≤ 1.2 A



Front view

Wiring diagram

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