



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 140, DN 250 (10")
Ordering No. 14048-JE28

Description

| | |
|-------------|--|
| Flange | JIS 250 |
| Actuator | Pneumatic, with 3-position actuator – with position indicator |
| Feedthrough | Rotary 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 | | $1 \cdot 10^{-8}$ mbar to 1.2 bar (abs) |
| Differential pressure on the gate | | ≤ 1.2 bar |
| Differential pressure at opening | | ≤ 30 mbar |
| Conductance (molecular flow) | – Nominal | 21'690 ls ⁻¹ |
| | – Min. adjustable | 12.5 ls ⁻¹ |
| Cycles until first service | – Unheated and under clean conditions | 200'000 |
| Temperature | – Valve body | ≤ 150 °C |
| (Maximum values: depending on operating conditions and sealing materials) | – Actuator | ≤ 50 °C |
| | – Position indicator | ≤ 80 °C |
| Heating and cooling rate | | 50 °C h ⁻¹ |
| Material (main components) | – Valve body | AISI 304 (1.4301) |
| | – Mechanism | AISI 304 (1.4301), AISI 301 (1.4310), AISI 316L (1.4404) |
| Seal | – Bonnet | FKM (Viton®), O-ring |
| | – Gate | FKM (Viton®), O-ring |
| | – Actuator | FKM (Viton®), NBR |
| Mounting position | | any |
| Volume of pneumatic actuator | | 2.6 l / 0.093 ft ³ |
| Compressed air min. – max. overpressure | | 4 – 7 bar / 58 – 102 psi |
| Compressed air connection | | G $\frac{1}{8}$ " (½" NPT for USA) |
| Actuation time | – closing | ≤ 6 s |
| | – opening | ≤ 6 s |
| Weight | | 69 kg / 151 lbs |

| | | |
|-----------------|--------------------------|------------------|
| Created by: NIW | Release date: 24.10.2020 | 1/2 |
| Modified by: | Release date: | 1060847EA |



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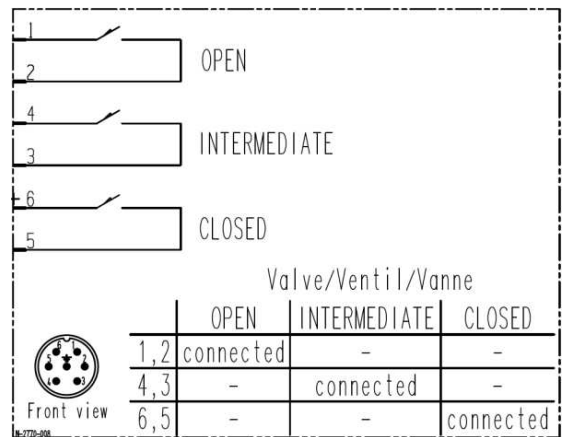
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| | | |
|--|---|--|
| Behavior in case of compressed air pressure drop | – Valve closed – Valve open – Middle position | valve remains closed undefined undefined |
| Behavior in case of power failure | – Valve closed – Valve open – Middle position | depending on customer installation depending on customer installation depending on customer installation |
| Valve position indication | | visual (mechanical) |

Position indicator

| | |
|--------------|-------------------------|
| Type | Micro switch |
| Voltage | ≤ 250 V AC ≤ 50 V DC |
| Current max. | ≤ 5 A ≤ 3 A |



Wiring diagram

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