



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 140, DN 100 (4")
Ordering No. 14040-CE14

Description

| | |
|-------------|--------------------------|
| Flange | CF-F 100 |
| Actuator | Pneumatic, double acting |
| Feedthrough | Rotary feedthrough |

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 2 bar (abs) |
| Differential pressure on the gate | | ≤ 2 bar |
| Differential pressure at opening | | ≤ 30 mbar |
| Conductance (molecular flow) | | 1'740 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 – Pneumatic actuator – Position indicator | ≤ 150 °C ≤ 50 °C ≤ 80 °C |
| Heating and cooling rate | | 50 °C h ⁻¹ |
| Material (main components) | – Valve body – Mechanism | AISI 304 (1.4301) AISI 304 (1.4301) |
| Seal | – Bonnet – Gate – Actuator | FKM (Viton®), O-ring FKM (Viton®), O-ring FKM (Viton®), NBR |
| Mounting position | | Any |
| Volume of pneumatic actuator | | 0.15 l / 0.005 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 – opening | 1.5 s 1.5 s |
| Weight | | approx. 15 kg / 34 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 | depends on customer installation depends on customer installation |

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