



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Mini Vakuum gate valve, Series 012, DN 50 (ID 2")
Ordering No. 01234-KA14

Description

| | |
|-------------|--------------------------|
| Flange | ISO-KF 50 |
| Actuator | pneumatic, double acting |
| Feedthrough | Shaft feed through |

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 bar (abs) |
| Differential pressure on the gate | | ≤ 1 bar |
| Differential pressure at opening | | ≤ 30 mbar |
| Conductance (molecular flow) | | 260 ls ⁻¹ |
| Cycles until first service | | 50 000 |
| Temperature (Maximum values: depending on operating conditions and sealing materials) | – Valve Body | ≤ 100 °C |
| | – Actuator | ≤ 80 °C |
| Heating and cooling rate | | ≤ 30 °C h ⁻¹ |
| Material | – Valve Body | EN AW – 6082 (3.2315) |
| | – Gate | AISI 304 (1.4301) |
| Seal | – Bonnet | FKM (Viton®) |
| | – Gate | FKM (Viton®), vulcanized |
| | – Actuator | FKM (Viton®) |
| Mounting position | | any |
| Volume of pneumatic actuator | | 0.07 l / 0.002 ft ³ |
| Compressed air min. – max. overpressure | | 4.5 – 7 bar / 65 – 100 psi |
| Compressed air connection | | M 5 (10-32 UNF) |
| Actuation time | – closing | 1.3 s |
| | – opening | 1.3 s |
| Weight | | 1.5 kg / 3.3 lbs |
| Behavior in case of compressed air pressure drop | – Valve closed | valve remains closed |
| | – Valve open | depending on customer installation |
| Behavior in case of power failure | – Valve closed | depending on customer installation |
| | – Valve open | depending on customer installation |

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