



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum gate valve, Series 121, DN 160 (ID 6'')
Ordering No. 12144-JA03

Description

| | |
|-------------|-------------------|
| Flange | JIS 160 |
| Actuator | manual |
| Feedthrough | Shaft feedthrough |

Technical data

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|---|---------------------|---|
| 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 1.6 bar (abs) |
| Differential pressure on the gate | | ≤ 1.6 bar |
| Differential pressure at opening | | ≤ 30 mbar |
| Conductance (molecular flow) | | 5 800 ls ⁻¹ |
| Cycles until first service | | 5 000 (unheated and under clean conditions) |
| Temperature | – Valve body | ≤ 120 °C |
| (Maximum values: depending on operating conditions and sealing materials) | – Actuator | ≤ 80 °C |
| Heating and cooling rate | | 30 °C h ⁻¹ |
| Material | – Valve body | EN AW-42100 (3.2371) |
| | – Gate | EN AW-6060 (3.3206) |
| | – Mechanism | AISI 301 (1.4310), AISI 304 (1.4301), AISI 420 (1.4034) |
| | – Shaft feedthrough | AISI 303 (1.4305) |
| Seal | – Bonnet | FKM (Viton®) |
| | – Gate | FKM (Viton®), O-ring |
| Mounting position | | any |
| Weight | | 9.0 kg / 20 lbs |

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| Modified by: | Release date: | 223673EA |