



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-Metal Angle Valve, Series 57.0, DN 63 (ID 2 1/2")

OSL Article No. 57036-GE14-0001

Description

| | |
|-------------|--|
| Flange | CF-R DN63 |
| Actuator | Pneumatic, double acting – without solenoid valve – without position indicator |
| Feedthrough | Bellows |

Technical data

| | | |
|--|--|--|
| Leak rate | – Valve body – Valve seat | $\leq 1 \cdot 10^{-10}$ mbar ls ⁻¹ $\leq 1 \cdot 10^{-10}$ mbar ls ⁻¹ |
| Pressure range | | UHV to 5 bar (abs) |
| Test pressure | | 1 bar |
| Differential pressure on the plate | – In opening direction – In closing direction | ≤ 5 bar ≤ 5 bar |
| Max. differential pressure at opening | | ≤ 1 bar [>1 bar with reduced number of cycles] |
| Conductance (molecular flow) | | 125 ls ⁻¹ |
| Cycles until first service | | 10'000 |
| Bake-out temperature | – Valve open – Valve closed – Pneumatic actuator | ≤ 450 °C ≤ 350 °C ≤ 200 °C (for max. 100h) |
| Heating and cooling rate | | ≤ 60 °C h ⁻¹ |
| Material | – Body, Mechanism (in contact with media) – Bellows | 1.4435/1.4404, AISI 316 L; 1.4435, AISI 316 L, ESR 1.4404, AISI 316 L |
| Seal | – Bonnet – Plate – Actuator | metal metal Viton® |
| Mounting position | | any |
| Radiation resistance | – Valve – Actuator | 10^8 Gy (10^{10} rad) 10^5 Gy (10^7 rad) |
| Volume of pneumatic actuator | | 0.55 l / 0.02 ft ³ |
| Compressed air min. – max. | | 4 – 5 bar / 55 – 170 psi (overpressure) |
| Compressed air connection | | 2x R 1/8" (USA 1/8 NPT) |
| Actuation time | – Closing – Opening | ≤ 2 s ≤ 2 s |
| Weight | | 16.9 kg / 37.3 lbs |
| Behavior in case of compressed air pressure drop | – Valve closed – Valve open | undefined undefined |

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| Created by: HOPMn | Release date: 08.11.2023 | 1/2 |
| Modified by: Marco Hopfmann | Release date: 07.11.2023 | 1257290EA |



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Behavior in case of power failure – Valve closed no change
 – Valve open valve closes

Related documents

Dimensional drawing No. 514805EA

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| Created by: HOPMn | Release date: 08.11.2023 | 2/2 |
| Modified by: Marco Hopfmann | Release date: 07.11.2023 | 1257290EA |