



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Variable Leak Valve, Series 590 DN 16 (ID 5/8")

Ordering No. 59024-GE01-0003

Description

| | |
|---------------------|--------------------------------|
| Flange | DN 16 CF-R |
| Position Indication | - Linear scale - Scale ring |

Technical data

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|---------------------------------------|--|
| Leak rate | |
| - To the outside | $\leq 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$ |
| - Seat "closed position" | $\leq 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$ |
| Molecular conductance | 0.05 ls^{-1} |
| Adjustable gas flow [air, 1 bar, RT] | $1 \cdot 10^{-10} \text{ mbar ls}^{-1} - 500 \text{ mbar ls}^{-1}$ |
| Dead volume | |
| - Seat port | 2.7 cm^3 |
| - Side port | 1.1 cm^3 |
| Pressure range | UHV to 10 bar (abs) |
| Test pressure | 1 bar |
| Differential pressure | $\leq 10 \text{ bar}$ |
| Max. differential pressure at opening | $\leq 10 \text{ bar}$ |
| Cycles until first service | 20 000 |
| Bake-out temperature | |
| - open | $\leq 300^\circ\text{C}$ |
| - closed | $\leq 300^\circ\text{C}$ |
| - actuator | $\leq 300^\circ\text{C}$ |
| Heating and cooling rate | $\leq 60^\circ\text{Ch}^{-1}$ |
| Material | |
| - Body | 1.4943, AISI 660 / 1.4404, AISI 316 L |
| - Diaphragm | 1.4310, AISI 301, gold plated |
| Mounting position | any |
| Radiation resistance | $10^8 \text{ Gy (} 10^{10} \text{ rad)}$ |
| Turns from open to close | 22 |
| Weight | 0.94kg / 2.07 lbs |

Dimensions

Dimensional drawing no. 549274

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| Created by: Martin Greuter | Release date: 30. July 2012 | Page 1 of 1 |
| Modified by: René Brulc | Release date: 25. Nov 2014 | 296385EB |