



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**UHV angle valve, Series 284, DN 63 (ID 2½")**  
**Ordering No. 28436-GE31-0002**

### Description

Flange	CF-R 63
Actuator	Pneumatic, single acting with closing spring – with solenoid valve – without position indicator “open” and “closed”
Feedthrough	Bellows

### Technical data

Leak rate	– Valve body – Valve seat	$< 5 \cdot 10^{-10}$ mbar ls <sup>-1</sup> $< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$5 \cdot 10^{-10}$ mbar to 5 bar (abs)
Differential pressure on the plate	– in opening direction – in closing direction	$\leq 2$ bar $\leq 5$ bar
Differential pressure at opening		$\leq 1$ bar
Conductance (molecular flow)		160 ls <sup>-1</sup>
Closing time		$\leq 0.70$ sec.
Cycles until first service (Tmax 80°C, under clean conditions)		3 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Solenoid	$\leq 150$ °C $\leq 150$ °C $\leq 80$ °C
Material	– Valve body – Actuator – Plate – Bellows	AISI 316L (1.4404) Aluminum AISI 316L (1.4404) AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571)
Seal	– Bonnet Seal – Plate O-ring – Actuator O-ring	Metal FKM (Viton®) FKM (Viton®)
Weight		5 kg / 11.023 lbs
Mounting position		any
Volume of pneumatic actuator		0.112 l / 0.0040 ft <sup>3</sup>
Compressed air min. – max. overpressure		4 – 8 bar / 58 – 116 psi
Compressed air connection		Female G1/8"

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### Electrical connections

#### Solenoid valve

Type	3/2-way
Voltage	See solenoid
Power	See solenoid
Connector	Rectangle plug, Type B (DIN standard)
Cable	Ø6 – 8 mm

