



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV angle valve
Series 284, DN 16 (ID 5/8")
Ordering No. 28424-GE11-0001

Description

Flange	CF-R 16
Actuator	Pneumatic, single acting with closing spring – without solenoid valve – without position indicator
Feedthrough	Bellows

Technical data

Leak rate	– Valve body – Valve seat	$\leq 5 \cdot 10^{-10}$ mbar ls ⁻¹ $< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-10}$ mbar to 5 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	≤ 2 bar ≤ 5 bar
Differential pressure at opening		≤ 1 bar
Conductance (molecular flow)		5 ls ⁻¹
Closing time		≤ 0.1 sec.
Cycles until first service (T _{max} 80 °C, under clean conditions)		3 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator	≤ 150 °C ≤ 120 °C
Material	– Valve body – Actuator – Plate – Bellows	AISI 304 (1.4301) Aluminum AISI 316L (1.4435 ESU) AISI 316L (1.4404, 1.4435) AISI 316 Ti (1.4571)
Seal	– Bonnet O-ring – Plate O-ring – Actuator O-ring	Metal FKM (Viton®) FKM (Viton®)
Weight		0.5 kg / 1.102 lbs
Mounting position		any
Volume of pneumatic actuator		0.004 l / 0.0001 ft ³
Compressed air min. – max. overpressure		4 – 8 bar / 58 – 116 psi
Compressed air connection		M5 female (10-32 UNF suitable)

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Behavior in case of compressed air pressure drop	<ul style="list-style-type: none">- Valve closed- Valve opened- During actuation	<ul style="list-style-type: none">valve remains closed and leaktightvalve closes leaktightvalve closes leaktight
Behavior in case of power failure	<ul style="list-style-type: none">- Valve closed- Valve opened- During actuation	<ul style="list-style-type: none">valve remains closed and leaktight depending on customer installationdepending on customer installation

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