

Product data sheet

UHV angle valve Series 284, DN 25 (ID 1") Ordering No. 28428-GE21-CQD1

Description		
Flange		CF-R 25
Actuator		Pneumatic, single acting with closing spring – without solenoid valve – with position indicator
Feedthrough		Bellows
Options	CQD =	 Product: valve type ITER 21
Technical data ¹		
Leak rate	– Valve body – Valve seat	$\le 1 \cdot 10^{-8} \text{ mbar ls}^{-1}$ < 1 \cdot 10^{-8} mbar ls^{-1}
Leak rate (accidental condition)	– Valve body – Valve seat	≤ 1 · 10 ⁻⁸ mbar Is ⁻¹ n/a
Pressure range		1 · 10 ⁻⁸ mbar to 1.5 bar (abs)
Differential pressure on the plate	- In either direction	≤ 1.5 bar
Differential pressure at opening		≤ 1 bar
Conductance (molecular flow)		14 ls ⁻¹
Closing time		≤ 0.2 sec.
Cycles until first service (Tmax 80 °C, under clean conditions)		10 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve body Actuator Position indicator 	≤ 150 °C ≤ 150 °C ≤ 120 °C
Material	– Valve body – Actuator – Plate – Bellows	AISI 304 (1.4301) Aluminum AISI 316L (1.4404) AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571)
Seal	– Bonnet – Plate – Actuator	metal EPDM EPDM
Weight		0.65 kg / 1.433 lbs
Mounting position		any
Radiation resistance		10 ⁶ Gy (10 ⁸ rad)
Maximum magnetic field levels		≤ 150 mT
Volume of pneumatic actuator		0.011 I / 0.0004 ft ³
Compressed air min. – max. overpressure		4 – 8 bar / 58 – 116 psi
Compressed air connection		1/8" female ISO/NPT

¹ Values according technical specification D_R8752R v.1.1

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VAT Vakuumventile AG CH-9469 Haag, Schweiz	Product data sheet UHV angle valve Series 284, DN 25 (ID 1") Ordering No. 28428-GE21-CQD1	
Behavior in case of compress air pressure drop	sed – Valve closed – Valve open – During actuation	valve remains closed and leaktight valve closes leaktight valve closes leaktight
Behavior in case of power fai	ilure – Valve closed – Valve open – During actuation	depending on customer installation depending on customer installation depending on customer installation
Assembly cleanliness level		ISO Class 8
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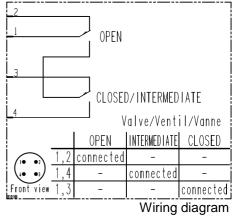
Related documents

Dimensional drawing No.	854970
STEP file No.	854969

Electrical connections

Position indicator

Туре	Micro switch
Voltage	\leq 50 V AC / DC
Current	5 – 100 mA
Short circuit protected	No
Male plug (VAT valve)	4 pin
Female connector (ITER) ²	8070-2201-01Z16-4SA (Glenair)



² Not included with delivery

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