

Product data sheet UHV angle valve

Series 284, DN 40 (ID 1 1/2") Ordering No. 28432-GE21-CQD1

Description

Flange		CF-R 40
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	$\leq 1 \cdot 10^{-8} \text{ mbar ls}^{-1}$ < 1 \cdot 10^{-8} mbar ls^{-1}
Leak rate (accidental condition)	– Valve body – Valve seat	$\le 1 \cdot 10^{-8} \text{ mbar ls}^{-1}$ 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)		45 ls ⁻¹
Closing time		≤ 0.55 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		1.5 kg / 3.3 lbs
Mounting position		any
Radiation resistance		10 ⁶ Gy (10 ⁸ rad)
Maximum magnetic field levels		≤ 150 mT
Volume of pneumatic actuator		0.035 l / 0.0012 ft ³
Compressed air min. – max. overpressure		5 – 8 bar / 73 – 116 psi
Compressed air connection		1/8" female ISO/NPT

¹ Values according technical specification D_R8752R v.1.1

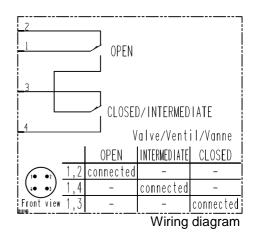
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VAT Vakuumventile AG CH-9469 Haag, Schweiz	Product data sheet UHV angle valve Series 284, DN 40 (ID 1 1/2") Ordering No. 28432-GE21-CQD1			
Behavior in case of compress air pressure drop	sed	Valve closedValve openDuring actuation	valve remains closed and leaktight valve closes leaktight valve closes leaktight	
Behavior in case of power fail	lure	 Valve closed Valve open During actuation 	depending on customer installation depending on customer installation depending on customer installation	
Assembly cleanliness level			ISO Class 8	
Related documents				
Dimensional drawing No. STEP file No.		854980 854979		

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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