



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV angle valve
Series 284, DN 63 (ID 2 1/2")
Ordering No. 28436-GE21-CQD1

Description

Flange		CF-R 63
Actuator		Pneumatic, single acting with closing spring – without solenoid valve – with position indicator “open” and “closed”
Feedthrough		Bellows
Options	CQD =	<ul style="list-style-type: none"> – Product: valve type ITER 21 – Actuator: seal material EPDM – Gate: seal material EPDM – Position indicator: Glenair 4 pin connector; 120°C – Compressed air connection: female 1/8" ISO/NPT

Technical data¹

Leak rate	– Valve body	$\leq 1 \cdot 10^{-8}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-8}$ mbar ls ⁻¹
Leak rate (accidental condition)	– Valve body	$\leq 1 \cdot 10^{-8}$ mbar ls ⁻¹
	– Valve seat	n/a
Pressure range		$1 \cdot 10^{-8}$ 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)		160 ls ⁻¹
Closing time		≤ 0.70 sec.
Cycles until first service		10 000
	(T _{max} 80 °C, under clean conditions)	
Temperature	– Valve body	≤ 150 °C
	– Actuator	≤ 150 °C
	– Position indicator	≤ 120 °C
	(Maximum values: depending on operating conditions and sealing materials)	
Material	– Valve body	AISI 316L (1.4404)
	– Actuator	Aluminum
	– Plate	AISI 316L (1.4404)
	– Bellows	AISI 316L (1.4404, 1.4435) AISI 316 Ti (1.4571)
Seal	– Bonnet O-ring	metal
	– Plate O-ring	EPDM
	– Actuator O-ring	EPDM
Weight		4.76 kg / 10.55 lbs
Mounting position		any
Radiation resistance		10^6 Gy (10^8 rad)
Maximum magnetic field levels		≤ 150 mT

¹ Values according technical specification D_R8752R v.1.1

Created by: GARM	Release date: 13.02.2019	1/2
Modified by: Phil Schneider	Release date: 15.02.2021	861843EB



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Volume of pneumatic actuator		0.112 l / 0.0040 ft ³
Compressed air min. – max. overpressure		4 – 8 bar / 58 – 116 psi
Compressed air connection		1/8" female ISO/NPT
Behavior in case of compressed air pressure drop	– Valve closed – Valve opened – During actuation	valve remains closed and leaktight valve closes leaktight valve closes leaktight
Behavior in case of power failure	– Valve closed – Valve opened – During actuation	depending on customer installation depending on customer installation depending on customer installation
Assembly cleanliness level		ISO Class 8

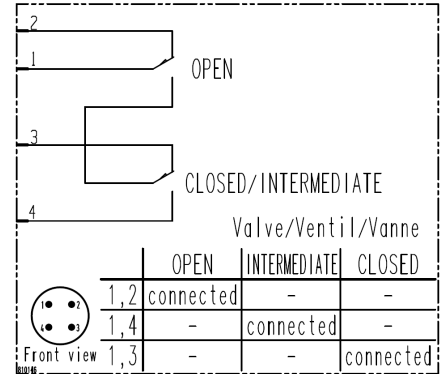
Related documents

Dimensional drawing No.	854989
STEP file No.	854988

Electrical connections

Position indicator

Type	Micro switch
Voltage	≤ 50 V AC / DC
Current	5 – 100 mA
Short circuit protected	No
Connector on the valve:	8070-2530-02Z16-4GA
Mating connector:*	8070-3039-01Z16-4KA (pins compatible with AWG 20 wire)



Wiring diagram

*The mating connector is not part of the valve and needs to be ordered separately at Glenair.

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