



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV gate valve
Series 108, DN 250 (ID 10'')
Ordering No. 10848-CE24-BUD1

Description

Flange		CF-F 250
Actuator		pneumatic, double acting – with position indicator – without solenoid valve
Feedthrough		Bellows
Options	BUD =	– Product: valve type ITER 41 – Actuator: seal material EPDM – Gate: seal material EPDM (vulcanized) – Position indicator: Glenair 4 pin connector; 125 °C

Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-8}$ mbar ls ⁻¹ $< 1 \cdot 10^{-8}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		19 990 ls ⁻¹
Cycles until first service		10 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve Body – Actuator – Position indicator	≤ 150 °C (bake-out max. 24h) ≤ 150 °C ≤ 150 °C
Heating and cooling rate		50 °C h ⁻¹
Material (main components)	– Valve Body – Mechanism – Bellows	AISI 304 (1.4301) AISI 316L (1.4404), AISI 304 (1.4301) AISI 316L (1.4404, 1.4435)
Seal	– Bonnet – Gate – Actuator	metal EPDM EPDM
Mounting position		any
Radiation resistance		10^6 Gy (10^8 rad)
Maximum magnetic field levels		≤ 150 mT
Volume of pneumatic actuator		0.35 l / 0.0122 ft ³
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		$\frac{1}{8}$ '' ISO / NPT

Created by: Phil Schneider	Release date: 12.06.2020	1/2
Modified by: Phil Schneider	Release date: 12.02.2021	1043010EA



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Actuation time	- closing	4 s
	- opening	4 s
Weight		52 kg / 115 lbs
Behavior in case of compressed air pressure drop	- Valve closed	valve remains closed
	- Valve open	undefined
Behavior in case of power failure	- Valve closed	depending on customer installation
	- Valve open	depending on customer installation

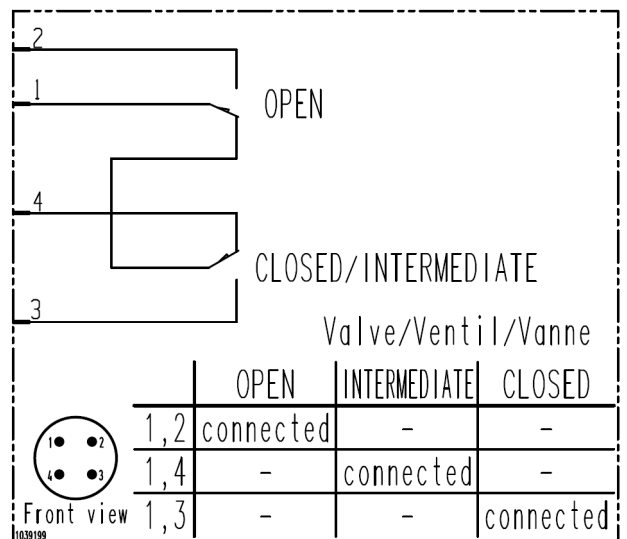
Related documents

Dimensional drawing No.	954405 Rev A
STEP file No.	954404 Rev A

Electrical connections

Position indicator

Type	Micro switch
Voltage	≤ 50 V AC / DC
Current max.	≤ 1.2 A
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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