

Product data sheet

UHV gate valve Series 108, DN 100 (ID 4") Ordering No. 10840-CE24-BUD1

Description

CF-F 100 Flange

Actuator pneumatic, double acting

> without solenoid valve with position indicator

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 data¹

Leak rate (nominal condition) - Valve body $< 1 \cdot 10^{-8} \text{ mbar ls}^{-1}$

> $< 1 \cdot 10^{-8} \text{ mbar Is}^{-1}$ - Valve seat

 $< 1 \cdot 10^{-8} \text{ mbar ls}^{-1}$ - Valve body Leak rate (accidental condition)

> - Valve seat n/a

1 · 10⁻⁸ mbar to 1.5 bar (abs) Pressure range

Differential pressure on the gate In either direction ≤ 1.5 bar

Differential pressure at opening ≤ 30 mbar

Conductance (molecular flow) 1740 ls⁻¹ 10 000

Cycles until first service

(nominal condition)

Temperature - Valve Body ≤ 150 °C (bake-out max. 24h)

(Maximum values: depending on - Actuator ≤ 150 °C operating conditions and sealing - Position indicator ≤ 150 °C

materials)

50 °C h⁻¹ Heating and cooling rate

Material (main components) - Valve Body AISI 304 (1.4301)

> AISI 316L (1.4404), AISI 304 (1.4301) - Mechanism

- Bellows AISI 316L (1.4404, 1.4435)

Seal Bonnet metal - Gate

EPDM - Actuator **EPDM**

11.3 kg / 24.9 lbs Weight

Mounting position any

Radiation resistance 10⁶ Gy (10⁸ rad)

≤ 150 mT Maximum magnetic field levels

0.11 I / 0.0038 ft3 Volume of pneumatic actuator

Compressed air² 4 - 7 bar / 58 - 102 psi

(min. - max. overpressure)

¹ Values according technical specification D_R8752R v.1.1

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Compressed air connection 1/8" ISO / NPT

Actuation time - closing 1.2 s

- opening 1.2 s

Behavior in case of compressed

air pressure drop

 Valve closed Valve open

valve remains closed and leaktight

depending on customer installation

undefined - During actuation undefined

Behavior in case of power failure - Valve closed

- Valve open

- During actuation

Assembly cleanliness level ISO Class 8

Related documents

Dimensional drawing No. STEP file No.

857668 Rev A 857667 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)

2		— —				
1		→ OPEN				
CLOSED/INTERMEDIATE						
_3	Valve/Ventil/Vanne					
		OPEN	INTERMEDIATE	CLOSED		
10 02	1,2	connected	ı	-		
(• •)	1,4	-	connected	_		
Front view	1,3		_	connected		
Wiring diagram						

Wiring diagram

² Deviation to technical specification D_R8752R v.1.1 in agreement with responsible IO department

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