

Product data sheet

UHV gate valve, Series 108, DN 100 (4") Ordering No. 10840-CE24-BUE1

Description

Flange CF-F 100

Actuator pneumatic, double acting

without solenoid valvewith position indicator

Feedthrough Bellows

Options BUE = - Product: valve type ITER 42

- Actuator: seal material EPDM

- Gate: seal material EPDM (vulcanized)

- Position indicator: double; Glenair 4 pin connector;

125 °C

Technical data¹

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

– Valve seat < 1 · 10⁻⁵ mbar ls⁻¹</p>

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

Valve seat n/a

Pressure range $1 \cdot 10^{-8}$ mbar to 1.5 bar (abs)

Differential pressure on the gate - In either direction ≤ 1.5 bar

Differential pressure at opening ≤ 30 mbar

Conductance (molecular flow) 1740 ls⁻¹
Cycles until first service 10 000

Cycles until first service (nominal condition)

Heating and cooling rate

Temperature

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

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

materials)

50 °C h⁻¹

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

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

- Bellows AISI 316L (1.4404, 1.4435)

Seal – Bonnet metal

– Gate– ActuatorEPDM

Weight 11.3 kg / 24.9 lbs

Mounting position any

Radiation resistance 10⁶ Gy (10⁸ rad)

Maximum magnetic field levels ≤ 150 mT

Volume of pneumatic actuator 0.11 I / 0.0038 ft³

Compressed air² 4-7 bar / 58-102 psi

¹ Values according technical specification D_R8752R v.1.1

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(min. - max. overpressure)

air pressure drop

Compressed air connection 1/8" ISO / NPT

Actuation time – closing 1.2 s

- opening 1.2 s

Behavior in case of compressed — Valve closed — valve remains closed and leaktight

Valve open undefinedDuring actuation undefined

Behavior in case of power failure — Valve closed depending on customer installation

Valve openDuring actuation

Assembly cleanliness level ISO Class 8

Related documents

Dimensional drawing No. 857770 Rev A STEP file No. 857769 Rev A

Electrical connections

Position indicator (2x)

Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$

Current max. \leq 1.2 A

Connector on the valve: 8070-2530-02Z16-4GA

Mating connector:* 8070-3039-01Z16-4KA

(pins compatible with

AWG 20 wire)

_2	OPEN			
CLOSED/INTERMEDIATE Valve/Ventil/Vanne				
	OPEN	INTERMEDIATE	CLOSED	
1,2	connected	ı	-	
$1 \leftarrow 3$ $1,4$	_	connected	_	
Front view 1,3	-	_	connected	
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.