

Product data sheet UHV gate valve, Series 108, DN 100 (ID 4'') Ordering No. 10840-PE24-BUD1

Description			
Flange		ISO-F 100	
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 data ¹			
Leak rate (nominal condition)	– Valve body – Valve seat	< 1 · 10 ⁻⁸ mbar ls ⁻¹ < 1 · 10 ⁻⁸ mbar ls ⁻¹	
Leak rate (accidental condition)	– Valve body – Valve seat	< 1 · 10 ⁻⁸ mbar Is ⁻¹ n/a	
Pressure range		1 · 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 (nominal condition)		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	
Weight		12.6 kg / 27.8 lbs	
Mounting position		any	
Radiation resistance		10 ⁶ Gy (10 ⁸ rad)	
Maximum magnetic field levels		≤ 150 mT	
Volume of pneumatic actuator		0.11 I / 0.0038 ft ³	
Compressed air ² (min. – max. overpressure)		4 – 7 bar / 58 – 102 psi	

¹ Values according technical specification D_R8752R v.1.1

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Compressed air connection

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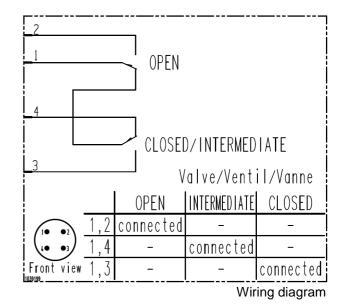
1/8" ISO / NPT

Actuation time	– closing – opening	1.2 s 1.2 s
Behavior in case of compressed air pressure drop	– Valve closed – Valve open – During actuation	valve remains closed and leaktight undefined undefined
Behavior in case of power failure	– Valve closed – Valve open – During actuation	depending on customer installation
Assembly cleanliness level		ISO Class 8
Related documents		
Dimensional drawing No. STEP file No.	891386 Rev A 891385 Rev A	

Electrical connections

Position indicator

Туре	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)



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

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

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