

Product data sheet

UHV gate valve, Series 108, DN 160 (6") Ordering No. 10844-PE24-BUE1

Description

ISO-F 160 Flange

Actuator pneumatic, double acting

with 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 $< 1 \cdot 10^{-8} \text{ mbar ls}^{-1}$

> $< 1 \cdot 10^{-8} \text{ mbar Is}^{-1}$ - 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) 5880 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

Heating and cooling rate

50 °C h⁻¹ 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**

Weight 19.4 kg / 42.8 lbs

Mounting position any

Radiation resistance 10⁶ Gy (10⁸ rad)

≤ 150 mT Maximum magnetic field levels

0.14 I / 0.0049 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 1.5 s

opening1.5 s

Behavior in case of compressed

air pressure drop

Valve closedValve openDuring actuation

valve remains closed and leaktight

undefined undefined

Behavior in case of power failure -

Valve closedValve open

depending on customer installation

- During actuation

Assembly cleanliness level

ISO Class 8

Related documents

Dimensional drawing No. STEP file No.

953308 Rev A 953306 Rev A

Electrical connections

Position indicator (2x)

Type Micro switch
Voltage ≤ 50 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	
10 02	1,2	connected	-	-	
(1• •3)	1,4	- 1	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.