

Product data sheet

UHV gate valve, Series 108, DN 160 (ID 6") Ordering No. 10844-CE14

Description

CF-F 160 Flange

Actuator pneumatic, double acting

Feedthrough **Bellows**

Technical data

 $< 5 \cdot 10^{-10} \text{ mbar ls}^{-1}$ Leak rate Valve body

 $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ - Valve seat

 $1 \cdot 10^{-10}$ mbar to 1.6 bar (abs) Pressure range

Differential pressure on the gate ≤ 1.6 bar Differential pressure at opening ≤ 30 mbar 5880 Is⁻¹ Conductance (molecular flow)

Cycles until first service 50 000 (unheated and under clean conditions)

Temperature Valve Body ≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h)

(Maximum values: depending

on operating conditions and

sealing materials)

Heating and cooling rate

50 °C h⁻¹

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

- Actuator

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

≤ 200 °C

- Bellows AISI 316L (1.4404, 1.4435)

Seal Bonnet metal

FKM (Viton®), vulcanized - Gate FKM (Viton®), NBR - Actuator

Mounting position any

Volume of pneumatic actuator $0.14 \text{ I} / 0.0049 \text{ ft}^3$

4 - 7 bar / 58 - 102 psiCompressed air

min. - max. overpressure

1/8" ISO / NPT Compressed air connection

Actuation time - closing 1.5 sopening 1.5 s

16.5 kg / 36.4 lbs

Weight Behavior in case of compressed Valve closed valve remains closed

air pressure drop - Valve open undefined

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

- Valve open

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