

Product data sheet

UHV gate valve Series 108, DN 160 (ID 6") Ordering No. 10844-PE34-0005

Description

Flange ISO-F 160

Actuator pneumatic, double acting

- with solenoid valve

Feedthrough bellows

Technical data

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

– Valve seat < 1 · 10⁻⁹ mbar Is⁻¹

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

Differential pressure on the gate \leq 1.6 bar

Differential pressure at opening \leq 30 mbar

Conductance (molecular flow) 5 880 ls⁻¹

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 — Actuator \leq 200 °C on operating conditions and — Solenoid valve \leq 50 °C

sealing materials)

Heating and cooling rate 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
 Actuator
 FKM (Viton[®]), vulcanized
 FKM (Viton[®]), NBR

Mounting position any

Volume of pneumatic actuator 0.14 I / 0.0049 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection G1/8" (1/8" NPT for USA)

Created by: A. Preisler	Release date: 13.04.2016	1/2
Modified by:	Release date:	839672EA



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Actuation time – closing 1.5 s

- opening 1.5 s

Weight 18 kg / 40 lbs

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

air pressure drop — Valve open undefined

Behavior in case of power failure - Valve closed valve remains closed

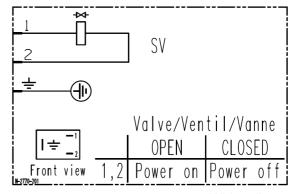
Valve open valve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order



Wiring diagram

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