

Product data sheet

UHV gate valve, Series 108, DN 250 (ID 10") Ordering No. 10848-TE44

Description

Flange ASA-LP 250

Actuator pneumatic, double acting

with solenoid valvewith position indicator

Feedthrough Bellows

Technical data

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

- Valve seat $< 1 \cdot 10^{-9}$ mbar Is⁻¹

Pressure range $1 \cdot 10^{-10}$ mbar to 1.2 bar (abs)

Differential pressure on the gate \leq 1.2 bar

Differential pressure at opening \leq 30 mbar

Conductance (molecular flow) 19 990 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 on operating conditions and sealing materials)- Actuator - Solenoid valve - Solenoid valve - Position indicator≤ 50 °C≤ 80 °C

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 FKM (Viton®), O-ring
- Actuator FKM (Viton®), NBR

Mounting position any

Volume of pneumatic actuator 0.35 I / 0.0122 ft³

Compressed air 5-7 bar/73-102 psi

min. - max. overpressure

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

Modified by:	Release date:	287407EA
Created by: SON	Release date: 2015-02-24	1 of 2



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Actuation time - closing 4 s - opening 4 s

- opening 4.5

Weight 50 kg / 110 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

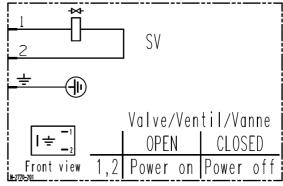
Valve open valve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order

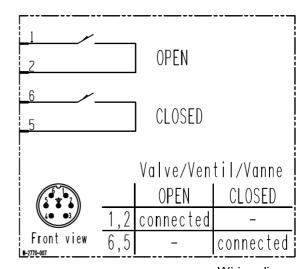


Wiring diagram

Position indicator

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

Current max. ≤ 1.2 A



Wiring diagram

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