

Product data sheet

RF all-metal gate valve, Series 472, DN 160 (ID 6") Ordering No. 47244-CE72-0001

Description

Flange DN 160 CF-F

Actuator Pneumatic double acting, compact

without solenoid valvewith position indicator

- with position maid

Feed through Bellows

RF - contact Circular ID 150 mm
Option none VAT - Standard

Technical data

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

– Valve seat < 1 · 10⁻¹⁰ mbar ls⁻¹</p>

Molecular flow conductance 3700 ls⁻¹

Pressure range XUHV to 2 bar (abs)

Test pressure 1 bar

Differential pressure on the gate ≤ 1 bar

Differential pressure at opening ≤ 500 mbar, 1 bar with reduced cycle life

Cycles until first service 10 000

Bake-out temperature − Valve body ≤ 200 °C

(Maximum values: depending on — Actuator ≤ 200 °C (for max. 100h)

operating conditions and sealing — Position indicator ≤ 80 °C materials)

Heating and cooling rate ≤ 50 °C h⁻¹

Material – Valve body 1.4435, AISI 316 L

Flange 1.4435 ESU, AISI 316 L ESR

- Gate
 - Mechanism
 - Bellows
 1.4435, AISI 316 L
 1.4435, AISI 316 L
 1.4435, AISI 316 L

- RF contact 1.4310, AISI 301 silver plated

Seal – Bonnet metal, silver plated

– Gate metal, silver plated

ActuatorViton®

Mounting position Any with beam tube horizontal

Radiation resistance – Valve body 10⁸ Gy (10¹⁰ rad) – Actuator 10⁵ Gy (10⁷ rad)

Position indicators
 10⁵ Gy (10⁷ rad)

Created by: Kurt Sonderegger	Release date: 26.04.2019	1/2
Modified by:	Release date:	978730EA



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Volume of pneumatic 5.0 I / 0.18 ft³

actuator

Compressed air 4 - 8 bar / 58 - 116 psig

min. - max. overpressure

Compressed air connections G 1/8" (USA: 1/8" NPT)

Actuation time - Closing $\leq 9.0 \text{ sec}$ (valid for RT, Ø6mm tubing at 4 bar with - Opening $\leq 9.0 \text{ sec}$

(valid for R1, Ø6mm tubing at 4 bar with — Opening ≤ 9.0 s flow rate of 400 l/min)

Weight app. 59 kg / 130 lbs

Behavior in case of — Valve closed Valve remains in closed position compressed air pressure — Valve open Valve remains in open position drop

Behavior in case of power - Valve closed Valve remains in closed position

failure – Valve open Valve closes

Related documents

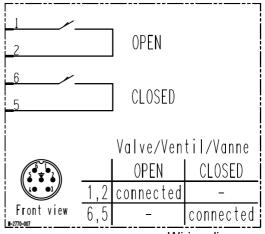
Dimensional drawing No. 978673

Electrical connections

Position indicator - LM

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

Current max. \leq 1.2 A



Wiring diagram

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