



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

RF all-metal gate valve, Series 472, DN 63 (ID 2 1/2")
Ordering No. 47236-CE44-0001

Description

Flange		DN 63 CF-F
Actuator		Pneumatic double acting - with solenoid valve - with position indicator
Feed through		Bellows
Option	=	Standard

Technical data

Leak rate	- Valve body - Valve seat	$< 1 \cdot 10^{-10}$ mbar ls ⁻¹ $< 1 \cdot 10^{-10}$ mbar 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
Conductance (molecular flow)		400 ls ⁻¹
Cycles until first service		10 000
Bake-out temperature (Maximum values: depending on operating conditions and sealing materials)	- Valve body - Actuator - Position indicator - Solenoid	≤ 300 °C ≤ 200 °C (for max. 100h) ≤ 80 °C ≤ 80 °C
Heating and cooling rate		≤ 50 °C h ⁻¹
Material	- Valve body - Flange - Gate - Mechanism - Bellows - RF contact	1.4435, AISI 316 L 1.4435 ESU, AISI 316 L ESR 1.4435, AISI 316 L 1.4435, AISI 316 L 1.4435, AISI 316 L 1.4310, AISI 301 silver plated
Seal	- Bonnet - Gate - Actuator	metal, silver plated metal, silver plated Viton®
Mounting position		Any with beam line horizontal
Radiation resistance	- Valve body - Actuator - Position indicators - Solenoid	10 ⁸ Gy (10 ¹⁰ rad) 10 ⁵ Gy (10 ⁷ rad) 10 ⁵ Gy (10 ⁷ rad) 10 ⁴ Gy (10 ⁶ rad)
Volume of pneumatic actuator		0.7 l / 0.024 ft ³
Compressed air min. – max. overpressure		4 - 8 bar / 58 - 116 psig
Compressed air connections		R 1/8" (USA: 1/8" NPT)

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Actuation time (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min)
 – Closing ≤ 2.0 sec
 – Opening ≤ 2.0 sec

Weight 21 kg / 46 lbs

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

Behavior in case of power failure
 – Valve closed Valve remains in closed position
 – Valve open Valve closes

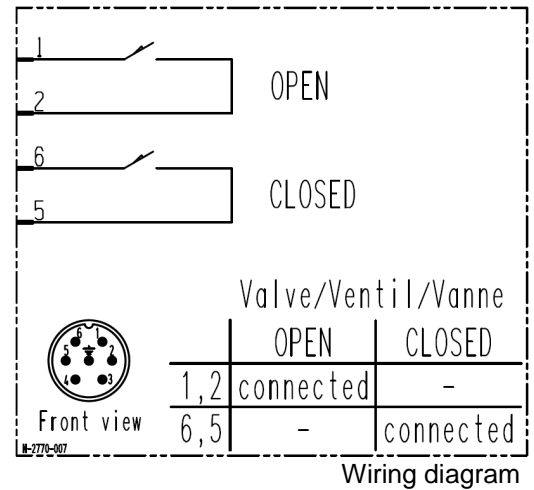
Related documents

Dimensional drawing No. 208129 A

Electrical connections

Position indicator

Type micro switch
 Voltage ≤ 50 V AC / DC
 Current max. ≤ 1.2 A



Solenoid

Voltage according to PO
 Power consumption ≤ 2.5 W

