



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-metal gate valve, Series 482, DN 100 (ID 4")

Ordering No. 48240-CE44-0003

Description

Flange		DN 100 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		≤ 2 bar
Differential pressure at opening		≤ 500 mbar, 1 bar with reduced cycle life
Conductance (molecular flow)		1 400 ls ⁻¹
Cycles until first service		20 000
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	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
Seal	- Bonnet - Gate - Actuator	metal, silver plated metal, silver plated FKM (Viton®)
Mounting position		any
Radiation resistance	- Valve body - Actuator - Position indicator - 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		1.4 l / 0.049 ft ³
Compressed air min. – max. overpressure		4 - 8 bar / 58 - 116 psig
Compressed air connections		R 1/8" (USA: 1/8" NPT)

Created by: Kurt Sonderegger	Release date: 2004-06-02	1 of 2
Modified by: René Brulc	Release date: 2014-02-21	250849EC



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Actuation time (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min)

- Closing	≤ 4.0 sec
- Opening	≤ 4.0 sec

Weight: 27 kg / 60 lbs

Behavior in case of compressed air pressure drop

- Valve closed	Valve remains in closed position
- Valve open	Undefined

Behavior in case of power failure

- Valve closed	Valve remains in closed position
- Valve open	Valve closes

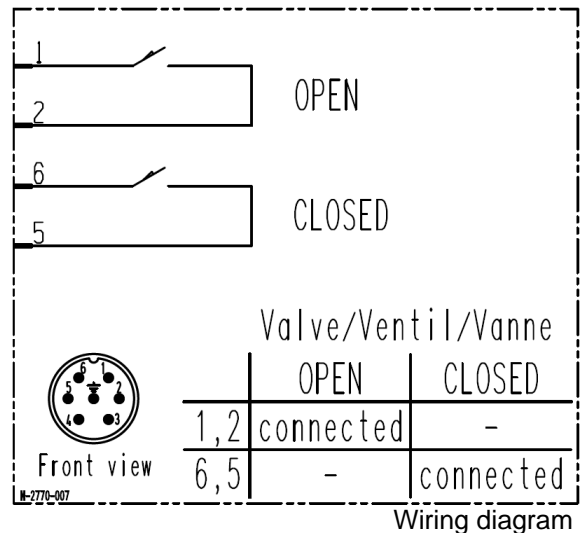
Related documents

Dimensional drawing No. 346725C

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

