



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-metal angle valve - Series 570, DN 100 (ID 4")
Ordering No. 57040-GE24-AAE1

Description

Flange	DN 100 CF-R
Actuator	Pneumatic double acting - without solenoid valve - with position indicator
Feed through	Bellows
Option	AAE = Position indicator 200°C

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 5 bar (abs)
Test pressure		1 bar
Differential pressure on the gate		≤ 5 bar
Differential pressure at opening		≤ 1 bar, > 1 bar with reduced cycle life
Conductance (molecular flow)		5 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	≤ 450 °C (open) ≤ 350 °C (closed) ≤ 200 °C (for max. 100h) ≤ 200 °C
Heating and cooling rate		≤ 60 °C h ⁻¹
Material (in contact with media)	– Valve body – Plate – Bellows	1.4435/1.4404, AISI 316 L; 1.4306, AISI 304 L 1.4435 ESU, AISI 316 L ESR 1.4404, 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	10 ⁸ Gy (10 ¹⁰ rad) 10 ⁵ Gy (10 ⁷ rad) 10 ⁵ Gy (10 ⁷ rad)
Volume of pneumatic actuator		1.5 l / 0.053 ft ³
Compressed air min. – max. overpressure		4 - 5 bar / 55 - 70 psig
Compressed air connections		G 1/8" (USA: 1/8" NPT)
Actuation time (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min)	– Closing – Opening	≤ 4.0 sec ≤ 4.0 sec
Weight		26.5 kg / 59 lbs

Created by: Kurt Sonderegger	Release date: 10.12. 2019	1/2
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Behavior in case of compressed air pressure drop

- Valve closed
- Valve open

undefined, no more leak tight
undefined

Behavior in case of power failure

depending on control

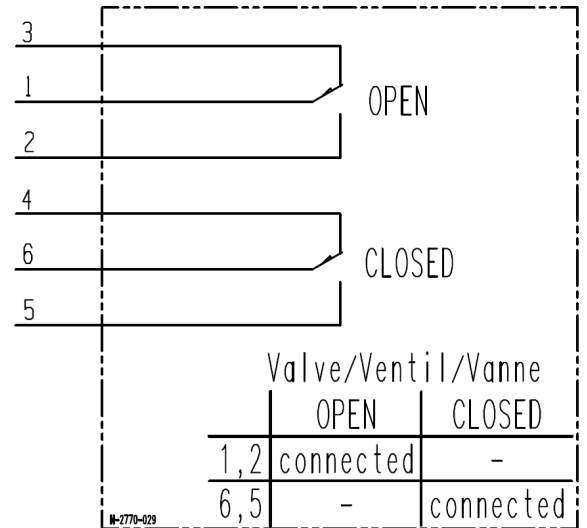
Related documents

Dimensional drawing No. 1009087

Electrical connections

Position indicator

Type micro switch
Voltage ≤ 50 V AC / DC
Current max. ≤ 1.0 A



Wiring diagram

Created by: Kurt Sonderegger	Release date: 10.12. 2019	2/2
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