



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-metal angle valve, Series 570, DN 100 (ID 4")

Ordering No. 57040-GE21-0002

Description

Flange	CF-R DN63
Actuator	Pneumatic, single acting with closing spring – without solenoid – with position indicator
Feedthrough	Bellows

Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-10}$ mbar ls ⁻¹ $< 1 \cdot 10^{-10}$ mbar ls ⁻¹
Pressure range		XHV to 5 bar (abs)
Test pressure		≤ 1 bar
Differential pressure on the plate	– In opening and closing direction	≤ 5 bar
Differential pressure at opening		≤ 1 bar with reduced number of cycles
Conductance (molecular flow)		380 ls ⁻¹
Cycles until first service		10 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Position indicator	≤ 450 °C open ≤ 350 °C closed ≤ 150 °C ≤ 80 °C
Heating and cooling rate		60 °C h ⁻¹
Material	– Valve body – Mechanism – Bellows	AISI 316L (1.4435 / 1.4404) AISI 316L (1.4435 / 1.4404) AISI 316L (1.4435 / 1.4404)
Seal	– Bonnet – Plate – Actuator	metal, silver plated metal, silver plated FKM (Viton®)
Radiation resistance	– Valve – Actuator – Position indicator	10 ⁸ Gy (10 ¹⁰ rad) 10 ⁵ Gy (10 ⁷ rad) 10 ⁵ Gy (10 ⁷ rad)
Mounting position		any
Volume of pneumatic actuator		1.8 l / 0.064 ft ³
Compressed air min. – max. overpressure		6 – 9 bar / 85 – 130 psig
Compressed air connection		R 1/8" (USA 1/8 NPT)
Actuation time	– Closing – Opening	4 s 4 s

Created by: Martin Greuter	Release date: April 28 th 2017	1/2
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Weight

35.0 kg / 77 lbs

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

valve remains closed
valve closes

Behavior in case of power failure – Valve closed
– Valve open

Depending on customer installation
Depending on customer installation

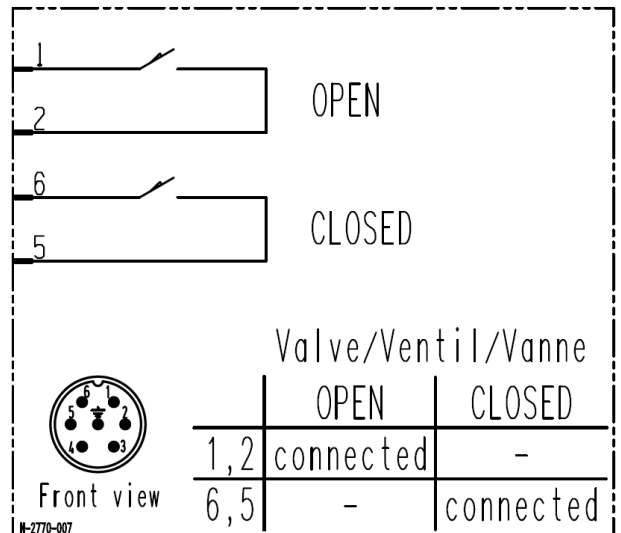
Related documents

Dimensional drawing No. 377141

Electrical connections

Position indicator

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



Wiring diagram

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