



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-metal angle valve, Series 570, DN 10 (ID 4")

Ordering No. 57040-GE05-0001

Description

Flange	CF-R, DN 100
Actuator	Manual, hexagon head SW 27, with position indicator 200°C
Feedthrough	Bellows
Options	

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 direction – In closing direction	≤ 5 bar ≤ 5 bar
Differential pressure at opening		1 bar (>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 ≤ 300 °C open and closed ≤ 200 °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	metal, silver plated metal, silver plated
Radiation resistance	– Valve – Actuator – Position indicator	10^8 Gy (10^{10} rad) 10^7 Gy (10^5 rad) 10^6 Gy (10^8 rad)
Turns per stroke		6.4
Torque		90 Nm / 66 lbf ft
Weight		16.7 kg / 37 lbs
Mounting position		any

Dimensions

Dim. Drawing 1076530A

Created by: Sonderegger Kurt	Release date: 19.02.2021	1/2
Modified by:	Release date:	1077158EA



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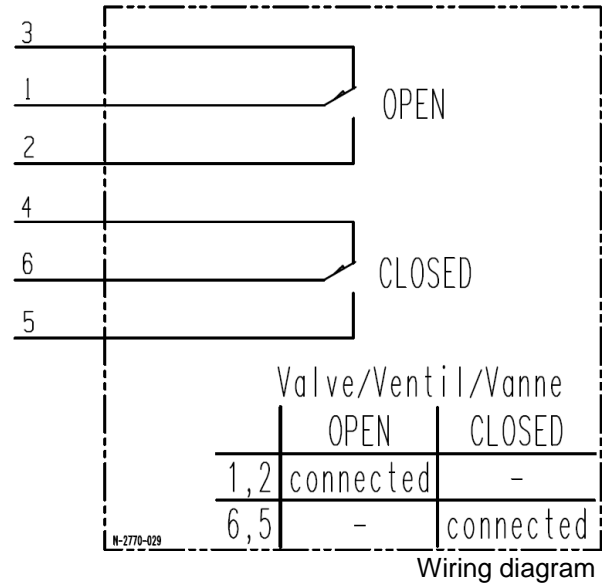
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Electrical connections

Position indicator 200°C

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



Comments

The VATRING patented by VAT guarantees a constant closing torque during the specified cycle life of 10'000 cycles. No service except regreasing of the spindle drive after high bake out is necessary during this cycle time.

The following torques are required to close the valve:

Valve DN	Hexagon head (mm)	M _{nom} (Nm)	M _{min} (Nm)	M _{max} (Nm)
100	27	90	64	100

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