



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-metal angle valve Series 571, DN 16 (ID 5/8")
Ordering No. 57124-GE08-0002

Description

Flange	CF-R, DN 16
Actuator	Manual, hexagon head SW 13 – with position indicator 80°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)		5 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 ≤ 450 °C open / ≤ 350 °C closed ≤ 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 (1.4404)
Seal	– Bonnet – Plate	Metal (silver plated) Metal (silver plated)
Radiation resistance	– Valve body – Actuator – Position indicator	10^8 Gy (10^{10} rad) 10^8 Gy (10^{10} rad) 10^5 Gy (10^7 rad)
Turns per stroke		6
Torque		4 Nm / 3 lbf ft
Weight		1.2 kg / 2.7 lbs
Mounting position		any

Related documents

Dimensional drawing No. 316517

Created by: Kurt Sonderegger	Release date: 10.10.2018	1/2
Modified by:	Release date:	293798EA



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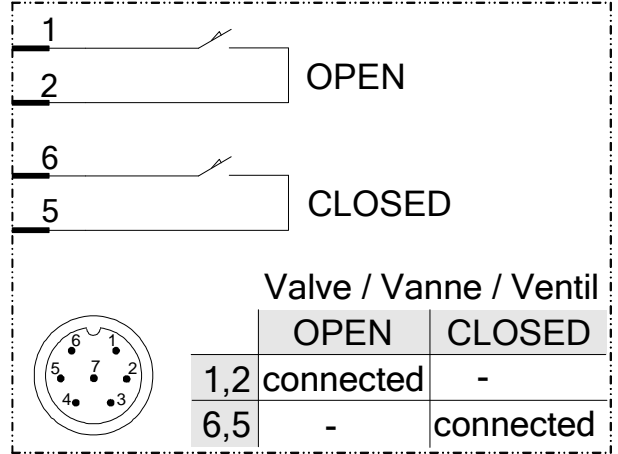
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Electrical connections

Position indicator 80°C

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



Wiring diagram

Comments

The all-metal angle valves Series 57.1 are sealed with the patented VATRING sealing system (hard to hard). VAT Series 57.1 all-metal angle valves, with manual actuator, use a hexagon head for closing. The valve has not to be closed with a specific closing torque, it is closed to a mechanical stop. During the specified cycle life of 10'000 cycles no service is necessary.

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