



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-metal angle valve, Series 571, DN 40 (ID 1½")

Ordering No. 57132-CE21-AHA1

Description

Flange		CF-F 40
Actuator		Pneumatic single acting with closing spring - without solenoid valve - with position indicator
Feed through		Bellows
Option	AHA =	Product: valve type ITER 4; Actuator: radiation resistant 10 ⁶ Gy; Position indicator: double; 200 °C; Glenair 6 pin connector; 125 °C; radiation resistant 10 ⁶ Gy;

Technical data

Leak rate (Test method acc. VAT Standard N-2100; He/air mix, ΔP = 1 bar)	- Valve body - Valve seat	< 1 · 10 ⁻⁹ mbar ls ⁻¹ < 1 · 10 ⁻⁹ 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)		50 ls ⁻¹
Cycles until first service (Maximum values: depending on operating conditions and valve contamination)	- Normal conditions ¹ - Extreme conditions ²	20 000 1 000
Bake-out temperature (Maximum values: depending on operating conditions and sealing materials)	- Valve body - Actuator - Position indicator	≤ 240 °C ≤ 140 °C (for max. 100h) ≤ 200 °C
Heating and cooling rate		≤ 10 °C h ⁻¹
Material	- Valve body - Gate - Bellows - Actuator	AISI 316 L ESR AISI 316 L ESR AISI 316 L AISI 303; AISI 6150; aluminium
Seal	- Bonnet - Gate - Actuator	metal, silver plated metal, silver plated EPDM
Mounting position		any
Radiation resistance	- Valve body - Actuator - Position indicators	10 ⁸ Gy (10 ¹⁰ rad) 10 ⁶ Gy (10 ⁸ rad) 10 ⁶ Gy (10 ⁸ rad)
Maximum magnetic field levels		≤ 150 mT

¹ Normal conditions: External pressure 0.1 MPa, pressure inside valve 0 MPa, bellows interspace pressure 0.05 MPa temperatures ambient.

² Extreme conditions: External pressure 0.2 MPa, pressure inside valve 0 MPa, bellows interspace pressure 0 MPa, temperature 100 °C

Created by: SCPH

Release date: 2014-05-21

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Modified by: Phil Schneider

Release date: 12.06.2020

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Volume of pneumatic actuator		0.35 l / 0.01 ft ³
Compressed air min. – max. overpressure		6 - 9 bar / 85 - 130 psig
Compressed air connections		R ½" (USA: ½" NPT)
Actuation time (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min)	– Closing	≤ 2.0 sec
	– Opening	≤ 2.0 sec
Weight	– Valve complete	8.9 kg / 19.6 lbs
	– Actuator	5.4 kg / 11.9 lbs
Behavior in case of compressed air pressure drop	– Valve closed	Valve remains in closed position
	– Valve open	Valve closes
Behavior in case of power failure		Depending on control

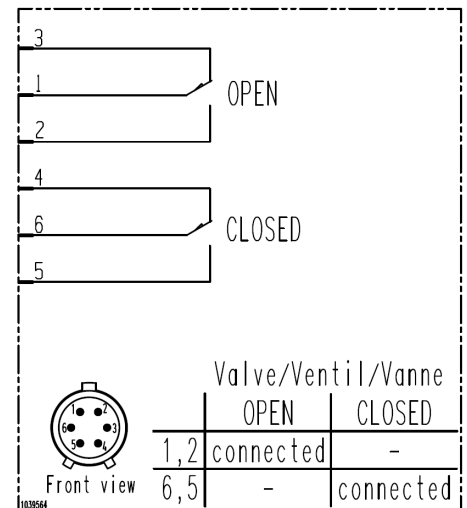
Related documents

Dimensional drawing No.	750330	Rev A
STEP file No.	750327	Rev A

Electrical connections

Position indicator (2x)

Type	micro switch
Voltage	≤ 50 V AC / DC
Current max.	≤ 1.0 A
Connector on the valve:	8070-2530-02Z16-6PA
Mating connector:*	8070-3039-01Z16-6KA (pins compatible with AWG 20 wire)



Wiring diagram

References

The product data is based on either VAT internally/externally performed lab tests or supplier product information. Relevant references listed on document 838738.

*The mating connector is not part of the valve and needs to be ordered separately at Glenair.

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