

Product data sheet All-metal angle valve, Series 570, DN 160 (ID 6") Ordering No. 57044-GE44-0003

Description

DN 160 CF-R Flange

Actuator Pneumatic double acting

- with solenoid valve - with position indicator

Feed through **Bellows** Option Standard

Technical data

 $< 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$ Valve body Leak rate

< 1 · 10⁻¹⁰ mbar ls⁻¹ Valve seat

 $-T = 200^{\circ}C$ XUHV to 5 bar (abs) Pressure range $-T = 450^{\circ}C$ XUHV to 3.5 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) 940 ls⁻¹

Cycles until first service 10 000

≤ 450 °C (open) Bake-out temperature - Valve body (Maximum values: depending on ≤ 350 °C (closed)

operating conditions and sealing ≤ 200 °C (for max. 100h) Actuator

materials) Position indicator ≤ 80 °C Solenoid ≤ 80 °C

≤ 60 °C h⁻¹ Heating and cooling rate

1.4435/1.4404, AISI 316 L Material Valve body (in contact with media) - Mechanism 1.4435 ESU, AISI 316 L ESR

> Bellows 1.4404, AISI 316 L

metal, silver plated Seal Bonnet

metal, silver plated Gate FKM (Viton®) Actuator

Mounting position any

Radiation resistance Valve body Actuator

10⁸ Gy (10¹⁰ rad) 10⁵ Gy (10⁷ rad) 10⁵ Gy (10⁷ rad) 10⁴ Gy (10⁶ rad) - Position indicator Solenoid

3.3 I / 0.116 ft³ Volume of pneumatic

actuator

4 - 5 bar / 58 - 73 psig Compressed air

min. - max. overpressure

Created by: Martin Greuter	Release date: 2014-05-01	1 of 2
Modified by:	Release date:	747979EA



Product data sheet All-metal angle valve, Series 570, DN 160 (ID 6") Ordering No. 57044-GE44-0003

Compressed air connections R 1/8" (USA: 1/8" NPT)

Actuation time - Closing ≤ 7.0 sec (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min) ≤ 7.0 sec

Weight 65 kg / 143 lbs

Behavior in case of - Valve closed Undefined compressed air pressure - Valve open Undefined

drop – Valve

Behavior in case of power — Valve closed Valve remains in closed position

failure – Valve open Valve closes

Related documents

Dimensional drawing No. 376579

Electrical connections

Position indicator

Type micro switch Voltage $\leq 50 \text{ V AC / DC}$

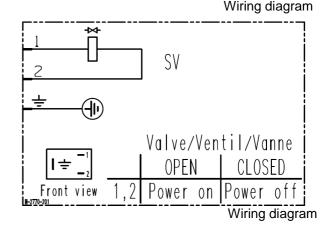
Current max. \leq 1.2 A

2		OPEN	
5		CLOSED	
Valve/Ventil/Vanne			til/Vanne CLOSED
	1 2	connected	- CLOSED
Front view	6,5	-	connected

Solenoid

Voltage according to PO

Power consumption ≤ 2.5 W



Created by: Martin Greuter	Release date: 2014-05-01	2 of 2
Modified by:	Release date:	747979EA