

Product data sheet

UHV angle valve Series 284, DN 16 (ID 5/8") Ordering No. 28424-GE31-0001

Description

Flange CF-R 16

Actuator Pneumatic, single acting with closing spring

with solenoid valvewithout position indicator

Feedthrough Bellows

Technical data

Leak rate - Valve body $\leq 5 \cdot 10^{-10} \text{ mbar ls}^{-1}$

– Valve seat < 1 ⋅ 10⁻⁹ mbar ls⁻¹

Pressure range $1 \cdot 10^{-10}$ mbar to 5 bar (abs)

Differential pressure on the plate − In opening direction ≤ 2 bar

In closing direction ≤ 5 bar

Differential pressure at opening ≤ 1 bar

Conductance (molecular flow) 5 Is⁻¹

Closing time ≤ 0.1 sec.

Cycles until first service 3 million

(Tmax 80 °C, under clean

conditions)

Temperature - Valve body ≤ 150 °C (Maximum values: depending on operating conditions and - Solenoid ≤ 80 °C

sealing materials)

Material – Valve body AISI 304 (1.4301)

Actuator Aluminum

Plate AISI 316L (1.4435 ESU)

- Bellows AISI 316L (1.4404, 1.4435) AISI 316 Ti (1.4571)

Seal – Bonnet O-ring Metal

Plate O-ring
 Actuator O-ring
 FKM (Viton[®])
 FKM (Viton[®])

Weight 0.5 kg / 1.102 lbs

Mounting position any

Volume of pneumatic actuator 0.004 I / 0.0001 ft³

Compressed air 4-8 bar / 58-116 psi

min. - max. overpressure

Compressed air connection M5 female (10-32 UNF suitable)

Created by: WARO	Release date: 26.09.2014	1/2
Modified by:	Release date:	740749EB



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Behavior in case of compressed

air pressure drop

Valve closed
 valve remains closed and leaktight

Valve openedDuring actuationvalve closes leaktight

Behavior in case of power failure

Valve closed
 valve remains closed and leaktight

Valve opened valve closes leaktightDuring actuation valve closes leaktight

Electrical connections

Solenoid valve

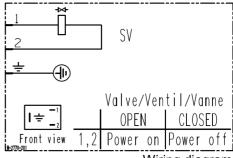
Type 3/2-way

Voltage See solenoid
Power See solenoid

Connector Rectangle plug,

Type B (DIN standard)

Cable Ø6 – 8 mm



Wiring diagram

Created by: WARO	Release date: 26.09.2014	2/2
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