

Product data sheet

UHV angle valve, Series 284, DN 100 (4") Ordering No. 28440-QE21-CQD1

Description

ISO-K 100 Flange

Actuator Pneumatic, single acting with closing spring

- without solenoid valve

with position indicator

Feedthrough **Bellows**

Options CQD = - Product: valve type ITER 21

Technical data¹

 $\leq 1 \cdot 10^{-8} \text{ mbar Is}^{-1}$ < 1 · 10⁻⁸ mbar Is⁻¹ Leak rate Valve body

Valve seat

 $\leq 1 \cdot 10^{-8} \text{ mbar ls}^{-1}$ Leak rate (accidental condition) Valve body

- Valve seat

1 · 10⁻⁸ mbar to 1.5 bar (abs) Pressure range

Differential pressure on the - In opening direction ≤ 1.2 bar plate² - In closing direction ≤ 1.5 bar

Differential pressure at opening ≤ 1 bar

Conductance (molecular flow) 440 ls⁻¹ Closing time ≤ 1 sec.

10 000 Cycles until first service

(Tmax 80 °C, under clean conditions)

Temperature - Valve body ≤ 150 °C (Maximum values: depending on Actuator ≤ 120 °C operating conditions and sealing ≤ 120 °C Position indicator materials)

AISI 316L (1.4404) Material - Valve body

- Actuator Aluminum

- Plate AISI 316L (1.4404)

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

- Bonnet metal Seal **EPDM** Plate

 Actuator **EPDM**

Weight 10 kg / 22 lbs

Mounting position any

10⁶ Gy (10⁸ rad) Radiation resistance

≤ 150 mT Maximum magnetic field levels

 $0.3 \, \text{I} / 0.01 \, \text{ft}^3$ Volume of pneumatic actuator

4.5 - 7 bar / 65 - 102 psi Compressed air

min. - max. overpressure

1/8" female ISO/NPT Compressed air connection

Values according technical specification D_R8752R v.1.1
Deviation to technical specification D_R8752R v.1.1 in agreement with responsible IO department

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Behavior in case of compressed

air pressure drop

Valve closedValve open

valve remains closed and leaktight

Valve openDuring actuationvalve closes leaktight

Behavior in case of power failure

Valve closedValve openDuring actuation

depending on customer installation depending on customer installation

depending on customer installation

Assembly cleanliness level

ISO Class 8

Related documents

Dimensional drawing No. STEP file No.

855622 855621

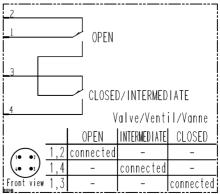
Electrical connections

Position indicator

Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$ Current 5 - 100 mA

Short circuit protected No Male plug (VAT valve) 4 pin

Female connector (ITER)³ 8070-2201-01Z16-4SA (Glenair)



Wiring diagram

³ Not included with delivery

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