Product data sheet
UHV angle valve
Series 284, DN 40 (ID 1 1/2"")
Ordering No. 28432-GE21-CQD1

Description
Flange: CF-R 40
Actuator: Pneumatic, single acting with closing spring
– without solenoid valve
– with position indicator
Feedthrough: Bellows
Options: CQD = – Product: valve type ITER 21

Technical data

Leak rate
– Valve body: ≤ 1 · 10^{-8} mbar ls^{-1}
– Valve seat: < 1 · 10^{-8} mbar ls^{-1}
Leak rate (accidental condition)
– Valve body: ≤ 1 · 10^{-8} mbar ls^{-1}
– Valve seat: n/a
Pressure range
– Valve body: 1 · 10^{-8} mbar to 1.5 bar (abs)
– Valve seat: n/a
Differential pressure on the plate
– In either direction: ≤ 1.5 bar
Differential pressure at opening:
– In either direction: ≤ 1 bar
Conductance (molecular flow): 45 ls^{-1}
Closing time: ≤ 0.55 sec.
Cycles until first service (Tmax 80 °C, under clean conditions): 10 000
Temperature
– Valve body: ≤ 150 °C
– Actuator: ≤ 150 °C
– Position indicator: ≤ 120 °C
Material
– Valve body: AISI 304 (1.4301)
– Actuator: Aluminum
– Plate: AISI 316L (1.4404)
– Bellows: AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571)
Seal
– Bonnet: metal
– Plate: EPDM
– Actuator: EPDM
Weight: 1.5 kg / 3.3 lbs
Mounting position: any
Radiation resistance: 10^6 Gy (10^8 rad)
Maximum magnetic field levels: ≤ 150 mT
Volume of pneumatic actuator:
– Minimum: 0.035 l / 0.0012 ft³
– Maximum: 5 – 8 bar / 73 – 116 psi
Compressed air connection: 1/8" female ISO/NPT

1 Values according technical specification D_R8752R v.1.1
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Behavior in case of compressed air pressure drop
- Valve closed: valve remains closed and leaktight
- Valve open: valve closes leaktight
- During actuation: valve closes leaktight

Behavior in case of power failure
- Valve closed: depending on customer installation
- Valve open: depending on customer installation
- During actuation: depending on customer installation

Assembly cleanliness level: ISO Class 8

Related documents
Dimensional drawing No.: 854980
STEP file No.: 854979

Electrical connections

Position indicator
Type: Micro switch
Voltage: &lt;= 50 V AC / DC
Current: 5 – 100 mA
Short circuit protected: No
Male plug (VAT valve): 4 pin
Female connector (ITER)*: 8070-2201-01Z16-4SA (Glenair)

* Not included with delivery

Modified by: 
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