Product data sheet
UHV angle valve, Series 284, DN 40 (ID 1 1/2”)
Ordering No. 28432-KE21-CQD1

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

Technical data¹
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
1 · 10⁻⁸ mbar to 1.5 bar (abs)
Differential pressure on the plate
– In either direction ≤ 1.5 bar
Differential pressure at opening
≤ 1 bar
Conductance (molecular flow)
45 ls⁻¹
Closing time
≤ 0.55 sec.
Cycles until first service
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
1.25 kg / 2.75lbs
Mounting position
any
Radiation resistance
10⁶ Gy (10⁶ rad)
Maximum magnetic field levels
≤ 150 mT
Volume of pneumatic actuator
0.035 l / 0.0012 ft³
Compressed air
min. – max. overpressure
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 open
- During actuation

Behavior in case of power failure
- Valve closed
- Valve open
- During actuation

Assembly cleanliness level
ISO Class 8

Related documents
Dimensional drawing No.
STEP file No.
890427
890426

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)² 8070-2201-01Z16-4SA (Glenair)

² Not included with delivery

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