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: \( \leq 1 \cdot 10^{-8} \text{ mbar ls}^{-1} \)
- Valve seat: \( < 1 \cdot 10^{-8} \text{ mbar ls}^{-1} \)

Leak rate (accidental condition)
- Valve body: \( \leq 1 \cdot 10^{-8} \text{ mbar ls}^{-1} \)
- Valve seat: n/a

Pressure range
- 1 \cdot 10^{-8} \text{ mbar} to 1.5 \text{ bar (abs)}

Differential pressure on the plate
- In either direction: \( \leq 1.5 \text{ bar} \)

Differential pressure at opening
- \( \leq 1 \text{ bar} \)

Conductance (molecular flow)
- 45 ls\(^{-1}\)

Closing time
- \( \leq 0.55 \text{ sec.} \)

Cycles until first service
- (\( T_{\text{max}} \) 80 °C, under clean conditions)
  - 10 000

Temperature
- (Maximum values: depending on operating conditions and sealing materials)
  - Valve body: \( \leq 150 \text{ °C} \)
  - Actuator: \( \leq 150 \text{ °C} \)
  - Position indicator: \( \leq 120 \text{ °C} \)

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
- 1.4 kg / 3.1 lbs

Mounting position
- any

Radiation resistance
- \( 10^6 \text{ Gy} (10^8 \text{ rad}) \)

Maximum magnetic field levels
- \( \leq 150 \text{ mT} \)

Volume of pneumatic actuator
- 0.035 l / 0.0012 ft\(^3\)

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
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.: 921364
STEP file No.: 921363

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): 8070-2201-01Z16-4SA (Glenair)

\* Not included with delivery

Wiring diagram

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