Description

Flange: ISO-KF 25
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: $\leq 1 \cdot 10^{-8}$ mbar l$^{-1}$
- Valve seat: $< 1 \cdot 10^{-8}$ mbar l$^{-1}$

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

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

Differential pressure on the plate:
- In either direction: $\leq 1.5$ bar

Differential pressure at opening: $\leq 1$ bar

Conductance (molecular flow): 14 l$^{-1}$

Closing time: $\leq 0.2$ sec.

Cycles until first service (Tmax 80 °C, under clean conditions): 10 000

Temperature (Maximum values: depending on operating conditions and sealing materials):
- Valve body: $\leq 150$ °C
- Actuator: $\leq 150$ °C
- Position indicator: $\leq 120$ °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: 0.65 kg / 1.433 lbs

Mounting position: any

Radiation resistance: $10^6$ Gy ($10^8$ rad)

Maximum magnetic field levels: $\leq 150$ mT

Volume of pneumatic actuator: 0.011 l / 0.0004 ft$^3$

Compressed air:
- min. – max. overpressure: 4 – 8 bar / 58 – 116 psi
- connection: 1/8" female ISO/NPT

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1 Values according to 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. 893118
STEP file No. 893117

Electrical connections
Position indicator
Type Micro switch
Voltage $\leq 50$ 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