Description

Flange  
CF-R 63

Actuator  
Pneumatic, single acting with closing spring  
– without solenoid valve  
– with position indicator “open” and “closed”

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 \( \cdot 10^{-8} \) mbar to 1.5 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)  
160 \( \text{ ls}^{-1} \)

Closing time  
\( \leq 0.70 \text{ sec.} \)

Cycles until first service  
(T\( \text{max} 80 \degree \text{C, under clean conditions} \)  
10 000

Temperature  
(Main maximum values: depending on  
operating conditions and sealing  
materials)  
– Valve body  \( \leq 150 \degree \text{C} \)  
– Actuator  \( \leq 150 \degree \text{C} \)  
– Position indicator  \( \leq 120 \degree \text{C} \)

Material  
– Valve body  AISI 316L (1.4404)  
– Actuator  Aluminum  
– Plate  AISI 316L (1.4404)  
– Bellows  AISI 316L (1.4404, 1.4435) AISI 316 Ti (1.4571)

Seal  
– Bonnet O-ring  metal  
– Plate O-ring  EPDM  
– Actuator O-ring  EPDM

Weight  
4.76 kg / 10.55 lbs

Mounting position  
any

Radiation resistance  
10⁶ Gy (10⁸ rad)

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

Volume of pneumatic actuator  
0.112 l / 0.0040 ft³

Compressed air  
min. – max. overpressure  
4 – 8 bar / 58 – 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 opened: valve closes leaktight
- During actuation: valve closes leaktight

Behavior in case of power failure

- Valve closed: depending on customer installation
- Valve opened: depending on customer installation
- During actuation: depending on customer installation

Assembly cleanliness level
ISO Class 8

Related documents
Dimensional drawing No. 854989
STEP file No. 854988

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)\(^z\): 8070-2201-01Z16-4SA (Glenair)

\(^z\) Not included with delivery