Description

Flange
CF-R 16

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 \( \leq 1 \cdot 10^{-8} \text{ mbar ls}^{-1} \)
– 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 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)
5 \( \text{ls}^{-1} \)

Closing time
\( \leq 0.1 \text{ sec.} \)

Cycles until first service
10 000

(Tmax 80 °C, under clean conditions)

Temperature
– 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
0.40 kg / 0.882 lbs

Mounting position
any

Radiation resistance
10^6 Gv (10^8 rad)

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

Volume of pneumatic actuator
0.004 l / 0.0001 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
**Product data sheet**

**UHV angle valve**

**Series 284, DN 16 (ID 5/8”)**

**Ordering No. 28424-GE21-CQD1**

---

**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. 854941
- STEP file No. 854940

---

**Electrical connections**

**Position indicator**

- **Type**: Micro switch
- **Voltage**: ≤ 50 V AC / DC
- **Current**: 5 – 100 mA
- **Short circuit protected**: No
- **Male plug (VAT valve)**: 4 pin
- **Female connector (ITER)¹**: 8070-2201-01Z16-4SA (Glenair)

---

¹ Not included with delivery

---

**Wiring diagram**

---

Created by: GARM  Release date: 13.02.2019  2/2
Modified by:  Release date: