

# Product data sheet Fast closing valve, Series 75.0, DN 100 (4") Ordering No. 75040-CE44-0004

### **Description**

DN 100 CF-F Flange

Actuator Pneumatic double acting

- with solenoid valves - with position indicator

Feed through **Bellows** Option none

#### **Technical data**

 $< 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$ - Valve body Leak rate

 $< 1 \cdot 10^{-9} \, \text{mbar Is}^{-1}$ - Valve seat

UHV to 2 bar (abs) Pressure range

Test pressure 1 bar

Differential pressure on the - in closing direction ≤ 2 bar closed gate

- in opening direction ≤ 1.2 bar

Differential pressure at opening - in closing direction ≤ 180 mbar

- in opening direction ≤ 1 bar

Conductance (molecular flow) 700 ls<sup>-1</sup>

2 000 Cycles until first service

Bake-out temperature ≤ 200 °C (for max. 200h) Valve

(Maximum values: depending on ≤ 50 °C - Actuator operating conditions and sealing ≤ 50 °C - Solenoid valve materials) ≤ 50 °C - Position indicator

≤ 80 °C h<sup>-1</sup>

Heating and cooling rate

Material - Valve body 1.4435, AISI 316 L

1.4435, AISI 316 L Flange

- Gate Titanium

- Bellows 1.4404/1.4435, AISI 316 L

Seal - Bonnet metal, silver plated

> - Gate **FKM**

- Actuator NBR, PTFE/NBR

Any, marked seat side against the air inrush direction Mounting position

10<sup>5</sup> Gy (10<sup>7</sup> rad) Radiation resistance Body/Gate 10<sup>4</sup> Gy (10<sup>6</sup> rad) 10<sup>5</sup> Gy (10<sup>7</sup> rad) Actuator

 Position indicator 10<sup>4</sup> Gy (10<sup>6</sup> rad) Solenoid

Created by: Daniel Brandner	Release date: 2010-04-20	1 of 2
Modified by: René Brulc	Release date: 2014-12-04	280719ED



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3 I / 0.11 ft<sup>3</sup> Volume of pneumatic

actuator

5 - 8 bar / 73 - 116 psig Compressed air

min. - max. overpressure

Compressed air connections R 1/8" (USA: 1/8" NPT)

Actuation time Closing ≤ 15 ms

- Opening ≤ 7 s

Weight 29 kg / 64 lbs

Behavior in case of - Valve closed Valve remains in closed position compressed air pressure

- Valve open Valve remains in open position drop

Behavior in case of power - Valve closed Valve remains in closed position \* failure - Valve open Valve remains in open position \*

\* depends on fast valve controller settings

Related documents

Dimensional drawing No. 415042

#### **Electrical connections**

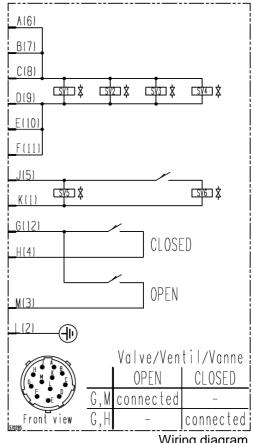
### **Position indicator**

Type micro switch Voltage ≤ 50 V AC / DC

Current max. ≤ 1.2 A

## Solenoid

Voltage ≤ 24 V DC Power consumption max. ≤ 30 W



Wiring diagram

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