## Description

| | |
|---|---|
| Flange | CF-F 320 UNF |
| Actuator | pneumatic, double acting<br>– with position indicator |
| Feedthrough | Bellows |
| Options | Body Flange "A" + "B" CF-F MDC 14" UNF |

## Technical data

| | | |
|---|---|---|
| Leak rate | – Valve body | $< 1 \cdot 10^{-9}$ mbar ls$^{-1}$ |
| | – Valve seat | $< 1 \cdot 10^{-9}$ mbar ls$^{-1}$ |
| Pressure range | | $1 \cdot 10^{-8}$ mbar to 1.2 bar (abs) |
| Differential pressure on the gate | | $\leq$ 1.2 bar |
| Differential pressure at opening | | $\leq$ 30 mbar |
| Conductance (molecular flow) | | 29 130 ls$^{-1}$ |
| Cycles until first service | | 200 000 (unheated and under clean conditions) |
| Temperature<br>(Maximum values: depending<br>on operating conditions and<br>sealing materials) | – Valve Body<br>– Actuator<br>– Solenoid valve<br>– Position indicator | $\leq$ 150 °C (bake-out max. 24h)<br>$\leq$ 120 °C<br>$\leq$ 50 °C<br>$\leq$ 80 °C |
| Heating and cooling rate | | 50 °C h$^{-1}$ |
| Material (main components) | – Valve Body<br>– Mechanism<br>– Bellows<br>– Bushing | AISI 304 (1.4301)<br>AISI 304 (1.4301)<br>AISI 316L (1.4404, 1.4435)<br>Hydrocarbonate |
| Seal | – Bonnet<br>– Gate<br>– Actuator | FKM (Viton®)<br>FKM (Viton®), O-ring<br>FKM (Viton®), NBR |
| Mounting position | | any |
| Volume of pneumatic actuator | | 0.48 l / 0.0167 ft$^3$ |
| Compressed air<br>min. – max. overpressure | | 5 – 7 bar / 73 – 102 psi |
| Compressed air connection | | G⅛'' (⅛'' NPT for USA) |
| Actuation time | – closing<br>– opening | 5 s<br>5 s |
| Weight | | 91 kg / 201 lbs |
| Behavior in case of compressed<br>air pressure drop | – Valve closed<br>– Valve open | valve remains closed<br>undefined |
| Behavior in case of power failure | – Valve closed<br>– Valve open | depending on customer installation<br>depending on customer installation |

## Electrical connections

### Position indicator

| | |
|---|---|
| Type | Micro switch |
| Voltage | ≤ 50 V AC / DC |
| Current max. | ≤ 1.2 A |



| | Valve/Ventil/Vanne | |
|---|---|---|
| | OPEN | CLOSED |
| 1,2 | connected | – |
| 6,5 | – | connected |

Wiring diagram