## Product data sheet

HV gate valve, Series 140, DN 250 (ID 10'’)
Ordering No. 14048-PE28-0001

## Description

Flange
Actuator

Feedthrough

## Technical data

| Leak rate | - Valve body <br> - Valve seat | $\begin{aligned} & <1 \cdot 10^{-9} \mathrm{mbar} \mathrm{Is}^{-1} \\ & <1 \cdot 10^{-9} \mathrm{mbar} \mathrm{Is}^{-1} \end{aligned}$ |
| :---: | :---: | :---: |
| Pressure range |  | $1 \cdot 10^{-8} \mathrm{mbar}$ to 1.2 bar (abs) |
| Differential pressure on the gate |  | $\leq 1.2$ bar |
| Differential pressure at opening |  | $\leq 30 \mathrm{mbar}$ |
| Conductance (molecular flow) | - Nominal <br> - Min. adjustable | $\begin{aligned} & 21 ' 690 \mathrm{ls}^{-1} \\ & 12.5 \mathrm{ls}^{-1} \end{aligned}$ |
| Cycles until first service | - Unheated and under clean conditions | 200'000 |
| Temperature (Maximum values: depending on operating conditions and sealing materials) | - Valve body <br> - Actuator <br> - Position indicator | $\begin{aligned} & \leq 150^{\circ} \mathrm{C} \\ & \leq 50^{\circ} \mathrm{C} \\ & \leq 80^{\circ} \mathrm{C} \end{aligned}$ |
| Heating and cooling rate |  | $50^{\circ} \mathrm{Ch}^{-1}$ |
| Material (main components) | - Valve body <br> - Mechanism | AISI 304 (1.4301) <br> AISI 304 (1.4301), AISI 301 (1.4310), <br> AISI 316L (1.4404) |
| Seal | - Bonnet <br> - Gate <br> - Actuator | FKM (Viton®), O-ring FKM (Viton ${ }^{\circledR}$ ), O-ring FKM (Viton®), NBR |
| Mounting position |  | any |
| Volume of pneumatic actuator |  | $2.6 \mathrm{l} / 0,093 \mathrm{ft}^{3}$ |
| Compressed air min. - max. overpressure |  | 4-7 bar / 58-102 psi |
| Compressed air connection |  | G $1 / 8$ " ( $1 / 8$ ', NPT for USA) |
| Actuation time | - closing <br> - opening | $\begin{aligned} & \leq 6 \mathrm{~s} \\ & \leq 6 \mathrm{~s} \end{aligned}$ |
| Weight |  | $69 \mathrm{~kg} / 151 \mathrm{lbs}$ |

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| Behavior in case of compressed | - Valve closed |
| :--- | :--- |
| air pressure drop | - Valve open |
|  | - Middle position |
| Behavior in case of power failure | - Valve closed |
|  | - Valve open |
|  | - Middle position |

## Electrical connections

## Position indicator

Type
Voltage
Current max.

Micro switch
$\leq 250 \mathrm{~V} \mathrm{AC} \leq 50 \vee \mathrm{DC}$
$\leq 5 \mathrm{~A} \quad \leq 3 \mathrm{~A}$
valve remains closed
undefined undefined
depending on customer installation depending on customer installation depending on customer installation


