

Product data sheet

HV gate valve, Series 140, DN 100 (4") Ordering No. 14040-PE14

Description

ISO-F 100 Flange

Actuator Pneumatic, double acting

Feedthrough Rotary feedthrough

Technical data

 $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ Leak rate Valve body

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

Pressure range $1 \cdot 10^{-8}$ mbar to 2 bar (abs)

Differential pressure on the gate ≤ 2 bar Differential pressure at opening ≤ 30 mbar Conductance (molecular flow) 1'740 Is-1

Cycles until first service 200'000 Unheated and under clean conditions

 Valve body ≤ 150 °C **Temperature** - Pneumatic actuator ≤ 50 °C (Maximum values: depending ≤ 80 °C on operating conditions and Position indicator sealing materials)

Heating and cooling rate 50 °C h-1

Material (main components) - Valve body AISI 304 (1.4301) - Mechanism AISI 304 (1.4301)

> - Bonnet FKM (Viton®), O-ring

- Gate FKM (Viton®), O-ring FKM (Viton®), NBR - Actuator

Mounting position Any

Volume of pneumatic actuator 0.15 I / 0.005 ft3

Compressed air 4 - 7 bar / 58 - 102 psi

min. - max. overpressure

Seal

Compressed air connection G1/8" (1/8" NPT for USA)

Actuation time 1.5 s - closing 1.5 s

- opening

Weight approx. 15 kg / 34 lbs

Behavior in case of compressed - Valve closed valve remains closed

air pressure drop Valve open undefined

Behavior in case of power failure Valve closed depends on customer installation

- Valve open depends on customer installation

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