

Product data sheet

HV gate valve, Series 140, DN 100 (ID 4") Ordering No. 14040-PE24

Description

ISO-F 100 Flange

Actuator Pneumatic, double acting

with position indicator

Feedthrough Rotary feedthrough

Technical data

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

- Valve seat

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

Differential pressure on the gate ≤ 2 bar

Differential pressure at opening ≤ 30 mbar Conductance (molecular flow) 1 740 ls⁻¹

Cycles until first service 200 000 Unheated and under clean conditions

≤ 150 °C Temperature Valve body ≤ 50 °C (Maximum values: depending Pneumatic actuator Position indicator ≤ 80 °C

on operating conditions and

sealing materials)

Heating and cooling rate 50 °C h⁻¹

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

- Mechanism AISI 304 (1.4301)

Seal Bonnet

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

Mounting position Any

0.13 I / 0.005 ft³ Volume of pneumatic actuator

4 - 7 bar / 58 - 102 psiCompressed air

min. - max. overpressure

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

Actuation time - closing 1.5 s

- opening 1.5 s

Weight approx. 15 kg / 33 lbs

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Behavior in case of compressed — Valve closed — valve remains closed

air pressure drop — Valve open undefined

Behavior in case of power failure — Valve closed valve remains closed

Valve open valve closes

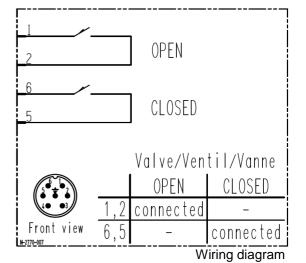
Electrical connections

Position indicator

Type Micro switch

Voltage \leq 250 V AC \leq 50 V DC

Current max. $\leq 5 \text{ A} \leq 3 \text{ A}$



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