

Product data sheet

HV gate valve, Series 140, DN 320 (12") Ordering No. 14050-PE48

Description

ISO-F 320 Flange

Actuator Pneumatic, double acting, with 3-position actuator

> with solenoid valve - with position indicator

Feedthrough Rotary feedthrough

Technical data

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

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

1 · 10⁻⁸ mbar to 1.2 bar (abs) Pressure range

Differential pressure on the gate ≤ 1.2 bar

Differential pressure at opening ≤ 30 mbar

Conductance (molecular flow) 32'690 Is-1 Nominal

- Min. adjustable 16 ls⁻¹ - Unheated and under Cycles until first service

clean conditions

200'000 (valve in horizontal position) 50'000 (valve in vertical position)

Temperature Valve body ≤ 150 °C Pneumatic actuator (Maximum values: depending ≤ 50 °C Solenoid valve on operating conditions and ≤ 50 °C Position indicator ≤ 80 °C

sealing materials)

Heating and cooling rate

50 °C h⁻¹

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

> - Mechanism AISI 304 (1.4301), AISI 301 (1.4310)

Seal - Bonnet FKM (Viton®), O-ring - Gate

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

Mounting position any

2.6 I / 0.093 ft3 Volume of pneumatic actuator

Compressed air 4 - 7 bar / 58 - 102 psi

min. - max. overpressure

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

- closing Actuation time ≤6s - opening ≤6s

Weight 119 kg / 261 lbs

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Behavior in case of compressed

air pressure drop

- Valve closed

valve remains closed

- Valve open - Middle position undefined undefined

Behavior in case of power failure

- Valve closed

valve remains closed

Valve open - Middle position valve closes valve closes

Valve position indication

visual (mechanical)

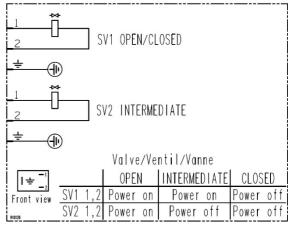
Electrical connections

Solenoid valve (2x)

Type 5/2 way

Voltage Power consumption

Defined by order 2.5 W



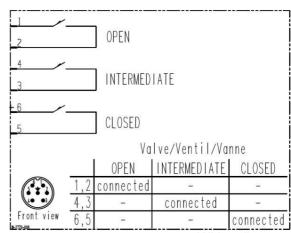
Wiring diagram

Position indicator

Type Micro switch

Voltage ≤ 250 V AC ≤ 50 V DC

Current max. ≤ 5 A ≤ 3 A



Wiring diagram

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