

Product data sheet

HV gate valve, Series 140, DN 160 (ID 6") Ordering No. 14044-PE44

Description

Flange ISO-F 160

Actuator Pneumatic, double acting

with solenoid valvewith position indicator

Feedthrough Rotary feedthrough

Technical data

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

– Valve seat < 1 · 10⁻⁹ mbar ls⁻¹

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

Differential pressure on the gate ≤ 2 bar

Differential pressure at opening \leq 30 mbar

Conductance (molecular flow) 5 150 Is⁻¹

Cycles until first service – Unheated and under

clean conditions

Conditions

Temperature - Valve body \leq 150 °C (Maximum values: depending - Pneumatic actuator \leq 50 °C

on operating conditions and — Solenoid valve ≤ 50 °C sealing materials) — Position indicator ≤ 80 °C

Heating and cooling rate 50 °C h⁻¹

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

- Mechanism AISI 304 (1.4301), AISI 316L (1.4404)

200 000

Seal – Bonnet FKM (Viton®), O-ring

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

Mounting position any

Volume of pneumatic actuator 0.28 I / 0.01 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

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

Actuation time – closing 2.5 s – opening 2.5 s

- opening 2.5 s

Weight 23.4 kg / 51.6 lbs

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Behavior in case of compressed air pressure drop

- Valve closed

- Valve closed

valve remains closed undefined

– Valve open

valve remains closed

Behavior in case of power failure

Valve open valve closes

Electrical connections

Solenoid valve

Type 5/2 way

Voltage Defined by order

SV

SV

Valve/Ventil/Vanne

OPEN CLOSED

Front view 1,2 Power on Power off

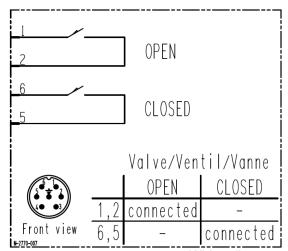
Wiring diagram

Position indicator

Type Micro switch

Voltage \leq 250 V AC \leq 50 V DC

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



Wiring diagram

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