

Product data sheet

HV gate valve, Series 140, DN 100 (4") Ordering No. 14040-UE48

Description

Flange CF-F 100 UNF

Actuator Pneumatic, with 3-position actuator

with solenoid valvewith position indicator

Feedthrough Rotary feedthrough

Technical data

Leak rate – Valve body < 1 · 10⁻⁹ mbar ls⁻¹

– Valve seat < 1 · 10⁻⁰ mbar ls⁻¹</p>

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

Differential pressure on the gate $\leq 2 \text{ bar}$

Differential pressure at opening \leq 30 mbar

Conductance (molecular flow) – Nominal 1'740 Is-1

– Min. adjustable
5 ls⁻¹

Cycles until first service – Unheated and under 200'000

clean conditions

Temperature- Valve body≤ 150 °C(Maximum values: depending
on operating conditions and
sealing materials)- Actuator
- Solenoid
- Position indicator≤ 50 °C
≤ 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 301 (1.4310)

Seal – Bonnet FKM (Viton®), vulcanized

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

Mounting position any

Volume of pneumatic actuator 0.53 I / 0,019 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection G\(^1\)8" (\(^1\)8" NPT for USA)

Actuation time - closing $\leq 2.5 \text{ s}$

- opening ≤ 2.5 s

Weight 17 kg / 37 lbs

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Behavior in case of compressed

air pressure drop –

Valve closedValve remains closedValve openundefined

Middle positionundefined

Behavior in case of power failure

Valve closed
 valve remains closed

Valve openMiddle positionvalve closes

Valve position indication visual (mechanical)

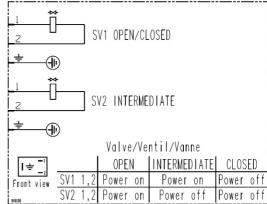
Electrical connections

Solenoid valve (2x)

Type 5/2 way

Voltage Defined by order

Power consumption 2.5 W



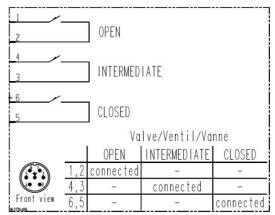
Wiring diagram

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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