

Product data sheet HV gate valve, Series 140, DN 200 (ID 8") Ordering No. 14046-PE48

Description

Flange ISO-F 200

Actuator Pneumatic, with 3-position actuator

with solenoid valvewith position indicator

Feedthrough Rotary feedthrough

Technical data

Leak rate - Valve body $< 1 \cdot 10^{-9}$ mbar Is⁻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 12'200 Is⁻¹

– Min. adjustable
10 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- Actuator
- Solenoid≤ 50 °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 0.96 I / 0.034 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 $\leq 3.5 \text{ s}$

- opening ≤ 3.5 s

Weight 36 kg / 79 lbs

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Behavior in case of compressed

air pressure drop

Valve closed

valve remains closed

Valve openMiddle position

undefined undefined

Behavior in case of power failure

- Valve closed

valve remains closed

Valve openMiddle position

valve closes valve closes

Valve position indication

visual (mechanical)

Electrical connections

Solenoid valve (2x)

Type 5/2 way

Voltage Defined by order

Power consumption 2.5 W

SV1 OPEN/CLOSED						
SV2 INTERMEDIATE						
Valve/Ventil/Vanne						
[] = -1		OPEN	INTERMEDIATE	CLOSED		
Front view	SV1 1,2	Power on	Power on	Power off		
910126	SV2 1,2	Power on	Power off	Power off		

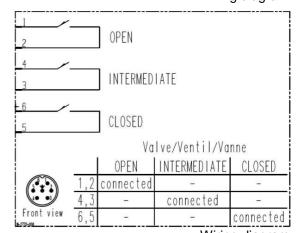
Wiring diagram

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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