

Product data sheet HV gate valve, Series 140, DN 160 (ID 6") Ordering No. 14044-PE48

Description

Flange ISO-F 160

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 5'150 ls⁻¹

Min. adjustable
7.5 ls⁻¹

Cycles until first service – Unheated and under 200'000

clean conditions

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)

AISI 316L (1.4404)

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 G1/8" (1/8" NPT for USA)

Actuation time - closing $\leq 3.5 \text{ s}$ - opening $\leq 3.5 \text{ s}$

Weight 30 kg / 66 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 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		

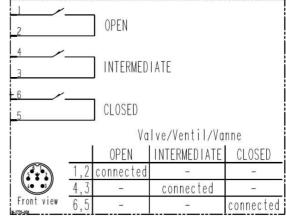
Wiring diagram

Position indicator

Type Micro switch

Voltage ≤ 250 V AC ≤ 50 V DC \leq 3 A

Current max. ≤ 5 A



Wiring diagram

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