

Product data sheet

HV gate valve, Series 140, DN 400 (ID 16") Ordering No. 14052-AE44

Description

ASA 400 Flange

Actuator Pneumatic, double acting

- with solenoid valve - with position indicator

Rotary feedthrough Feedthrough

Technical data

min. - max. overpressure

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

- Valve seat

 $1 \cdot 10^{-8}$ 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) 52 000 Is⁻¹

Cycles until first service - Unheated and under 200 000 (valve in horizontal position) clean conditions 50 000 (valve in vertical position)

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

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

FKM (Viton®), NBR - Actuator Mounting position horizontal (vertical with restriction)

0.75 I / 0.025 ft³ Volume of pneumatic actuator

Compressed air 4 - 7 bar / 58 - 102 psi

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

Actuation time - closing 5.5 s5.5 sopening

Weight 168 kg / 370.4 lbs

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Behavior in case of compressed — Valve closed valve remains closed

air pressure drop – Valve open undefined

Behavior in case of power failure - Valve closed valve remains closed

Valve open valve closes

Electrical connections

Solenoid valve

Type 5/2 way

Voltage Defined by order

SV

Valve/Ventil/Vanne

Valve/Ventil/Vanne

OPEN CLOSED

Front view 1,2 Power on Power off

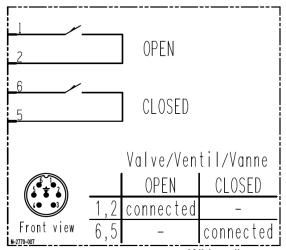
Wiring diagram

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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