

Product data sheet HV gate valve, Series 140, DN 400 (ID 16'') Ordering No. 14052-PE44

Description

Flange		ISO-F 400
Actuator		Pneumatic, double acting – with solenoid valve – with position indicator
Feedthrough		Rotary feedthrough
Technical data		
Leak rate	– Valve body – Valve seat	< $1 \cdot 10^{-9}$ mbar ls ⁻¹ < $1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		52 000 ls ⁻¹
Cycles until first service	 Unheated and under clean conditions 	200 000 (valve in horizontal position) 50 000 (valve in vertical position)
Temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve body Pneumatic actuator Solenoid valve Position indicator 	≤ 150 °C ≤ 50 °C ≤ 50 °C ≤ 80 °C
Heating and cooling rate		50 °C h ⁻¹
Material (main components)	– Valve body – Mechanism	AISI 304 (1.4301) AISI 304 (1.4301)
Seal	– Bonnet – Gate – Actuator	FKM (Viton [®]), O-ring FKM (Viton [®]), O-ring FKM (Viton [®]), NBR
Mounting position		horizontal (vertical with restriction)
Volume of pneumatic actuator		0.75 I / 0.025 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G¼" (¼" NPT for USA)
Actuation time	– closing – opening	5.5 s 5.5 s
Weight		141 kg / 311 lbs

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Behavior in case of compressed	
air pressure drop	
Behavior in case of power failure	

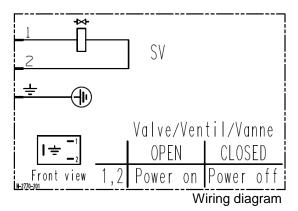
- Valve closed
- Valve open
- Valve closed
- Valve open

valve remains closed undefined valve remains closed valve closes

Electrical connections

Solenoid valve

Туре Voltage 5/2 way Defined by order



Position indicator

Туре	Micro switch	
Voltage	\leq 250 V AC	\leq 50 V DC
Current max.	≤ 5 A	\leq 3 A

_1		OPEN	
<u>6</u>		CLOSED	
		Valve/Ven	ı i
		OPEN	CLOSED
	1,2	connected	
Front view N+2770-007	6,5	-	connected
		W	iring diagram

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