

Product data sheet UHV gate valve, Series 108, DN 320 (ID 12'') Ordering No. 10850-TE48

Description

Flange		ASA-LP 320,
Actuator		pneumatic double acting, with 3-position actuator – with solenoid valve – with position indicator
Feedthrough		Bellows
Technical data		
Leak rate	– Valve body – Valve seat	< 5 · 10 ⁻¹⁰ mbar ls ⁻¹ < 1 · 10 ⁻⁹ mbar ls ⁻¹
Pressure range		1 · 10 ⁻¹⁰ mbar to 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		27 450 ls ⁻¹
Cycles until first service		50 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve body Actuator Solenoid valve Position indicator 	≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h) ≤ 200 °C ≤ 50 °C ≤ 80 °C
Heating and cooling rate		50 °C h ⁻¹
Material (main components)	– Valve body – Mechanism – Bellows	AISI 304 (1.4301) AISI 316L (1.4404), AISI 304 (1.4301) AISI 316L (1.4404, 1.4435)
Seal	– Bonnet – Gate – Actuator	metal FKM (Viton®), O-ring FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.48 I / 0.0167 ft ³
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		G1/8" (1/8" NPT for USA)
Actuation time	– closing – opening	5 s 5 s
Weight		100 kg / 220 lbs

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Behavior in case of compressed	
air pressure drop	

-	Valve closed	
_	Valve open	

- Behavior in case of power failure
- Middle position
- Valve closed - Valve open
- Middle position

valve remains closed undefined undefined

valve remains closed valve closes valve closes

Electrical connections

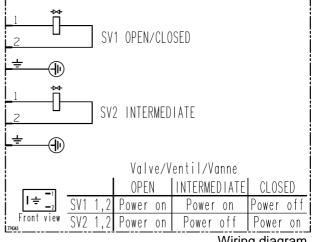
Solenoid valve

Туре

Voltage

Defined by order

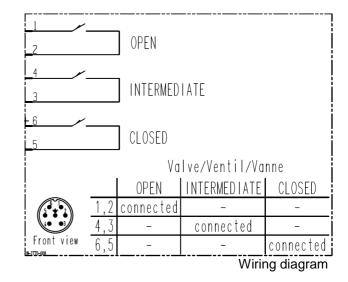
4/2 way



Wiring diagram

Position indicator

Туре	Micro switch
Voltage	≤ 50 V AC / DC
Current max.	≤ 1.2 A



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