

Product data sheet

UHV gate valve, Series 108, DN 320 (ID 12") Ordering No. 10850-JE28

Description

Flange JIS 320,

Actuator pneumatic double acting, with 3-position actuator

with position indicator

Feedthrough Bellows

Technical data

Leak rate - Valve body $< 5 \cdot 10^{-10}$ mbar ls⁻¹

- Valve seat $< 1 \cdot 10^{-9}$ mbar Is⁻¹

Pressure range $1 \cdot 10^{-10}$ mbar to 1.2 bar (abs)

Differential pressure on the gate $\leq 1.2 \text{ bar}$ Differential pressure at opening $\leq 30 \text{ mbar}$ Conductance (molecular flow) $\leq 310 \text{ ls}^{-1}$

Cycles until first service 50 000 (unheated and under clean conditions)

Temperature – Valve body ≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h)

 $\begin{array}{lll} \mbox{(Maximum values: depending} & -\mbox{ Actuator} & \leq 200\ ^{\circ}\mbox{C} \\ \mbox{on operating conditions and} & -\mbox{ Position indicator} & \leq 80\ ^{\circ}\mbox{C} \end{array}$

sealing materials)

Heating and cooling rate 50 °C h⁻¹

Material (main components) – Valve body AISI 304 (1.4301)

- Mechanism AISI 316L (1.4404), AISI 304 (1.4301)

- Bellows AISI 316L (1.4404, 1.4435)

Seal – Bonnet metal

Gate
Actuator
FKM (Viton[®]), O-ring
FKM (Viton[®]), NBR

Mounting position any

Volume of pneumatic actuator 0.48 I / 0.0167 ft³

Compressed air 5-7 bar / 73-102 psi

 $\ \ \, \text{min.}-\text{max. overpressure}$

Compressed air connection 1/8" ISO / NPT

Actuation time – closing 5 s

opening5 s

Weight 95 kg / 210 lbs

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Behavior in case of compressed

air pressure drop

Valve closed

valve remains closed undefined

Valve openMiddle position

undefined

Behavior in case of power failure - Valve closed

Valve closedValve open

Middle position

depending on customer installation depending on customer installation

depending on customer installation

Position indicator

Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$

Current max. ≤ 1.2 A

1 2		OPEN			
1 INTERMEDIATE					
6 5 CLOSED					
Valve/Ventil/Vanne					
		OPEN	INTERMEDIATE	CLOSED	
(5 t)	1,2	connected	-	-	
	4,3	-	connected	-	
Front view	6,5	_	-	connected	

Wiring diagram

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