

Product data sheet

UHV gate valve, Series 108, DN 160 (ID 6") Ordering No. 10844-TE48

Description

Flange ASA-LP 160

Actuator pneumatic double acting, with 3-position actuator

with solenoid valvewith position indicator

Feedthrough Bellows

Technical data

Leak rate - Valve body $< 5 \cdot 10^{-10}$ mbar ls⁻¹ - Valve seat $< 1 \cdot 10^{-9}$ mbar ls⁻¹

- Valve Seat 11.10 IIIDal 15

Pressure range $1 \cdot 10^{-10}$ mbar to 1.6 bar (abs)

Differential pressure on the gate \leq 1.6 bar

Differential pressure at opening \leq 30 mbar

Conductance (molecular flow) 5880 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)

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[®]), vulcanized
 FKM (Viton[®]), NBR

Mounting position any

Volume of pneumatic actuator 0.14 I / 0.0049 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 1.5 s - opening 1.5 s

Weight 18 kg / 40 lbs

Created by: MAEM	Release date: 2013-03-01	1 of 2
Modified by:	Release date:	276619EA



Product data sheet

UHV gate valve, Series 108, DN 160 (ID 6") Ordering No. 10844-TE48

Behavior in case of compressed

air pressure drop

Valve closed

valve remains closed

Valve open undefinedMiddle position undefined

Behavior in case of power failure

Valve closedValve remains closed

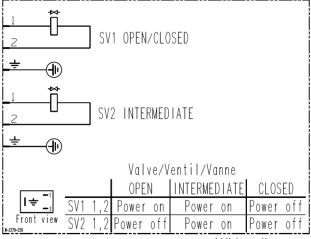
Valve openMiddle positionvalve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order



Wiring diagram

Position indicator

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

Current max. ≤ 1.2 A

2		OPEN			
1 INTERMEDIATE					
<u>-6</u> 5	6 CLOSED				
Valve/Ventil/Vanne					
		OPEN	INTERMEDIATE	CLOSED	
(3 to 1)	1,2	connected	ı	-	
	4,3	-	connected	-	
Front view	6,5	_	-	connected	

Wiring diagram

Created by: MAEM	Release date: 2013-03-01	2 of 2
Modified by:	Release date:	276619EA