

Product data sheet UHV gate valve, Series 108, DN 160 (ID 6'') Ordering No. 10844-UE48

Description

Flange		CF-F 160 UNF
Actuator		pneumatic double acting, with 3-position actuator – with solenoid valve – with position indicator
Feedthrough		Bellows
Technical data		
Leak rate	 Valve body 	$< 5 \cdot 10^{-10}$ mbar ls ⁻¹
	 Valve seat 	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
Pressure range		$1 \cdot 10^{-10}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		≤ 1.6 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		5880 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 [®]), vulcanized FKM (Viton [®]), NBR
Mounting position		any
Volume of pneumatic actuator		0.14 I / 0.0049 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G1⁄8" (1⁄8" NPT for USA)
Actuation time	– closing – opening	1.5 s 1.5 s
Weight		18 kg / 40 lbs

Created by: JOM	Release date: 08.07.2014	1/2
Modified by:	Release date:	758761EA



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Behavior in case of compressed	
air pressure drop	

_	Valve	closed
_	Valvo	opop

- Middle position

Behavior in case of power failure

- Valve open
- Valve closed
- Valve open
- Middle position

valve remains closed undefined undefined

valve remains closed valve closes valve closes

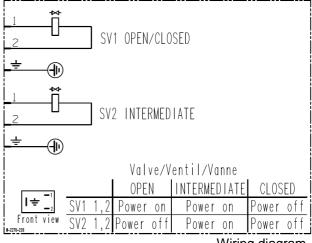
Electrical connections

Solenoid valve

Type

Voltage

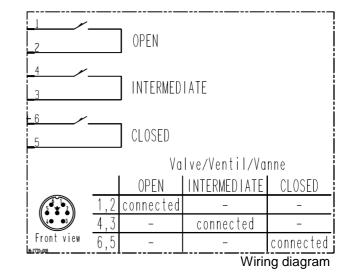
4/2 way Defined by order



Wiring diagram

Position indicator

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



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