



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV gate valve, Series 108, DN 80 (ID 3'')
Ordering No. 10838-PE24-ABU1

Description

Flange	ISO-F 80
Actuator	pneumatic, double acting – with position indicator
Feedthrough	Bellows
Options	– Gate seal O-ring

Technical data

Leak rate	– Valve body	$< 5 \cdot 10^{-10}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-9}$ 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)		765 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)
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 200 °C
	– Position indicator	≤ 80 °C
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	FKM (Viton®), O-ring
	– Actuator	FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.08 l / 0.0028 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		1/8" ISO / NPT

Created by: JOM	Release date: 28.02.2017	1/2
Modified by:	Release date:	884233EA



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

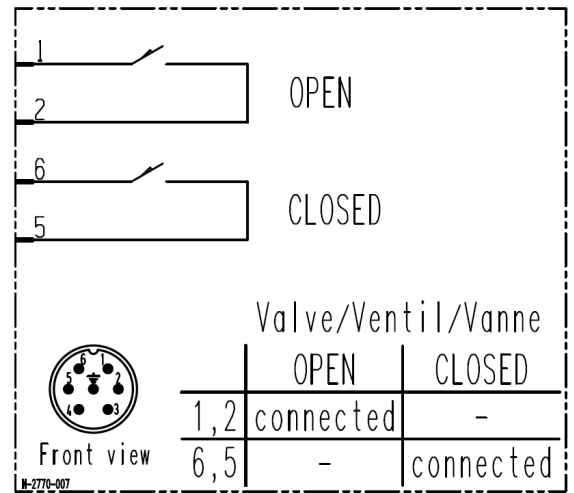
UHV gate valve, Series 108, DN 80 (ID 3'')
Ordering No. 10838-PE24-ABU1

Actuation time	- closing	1 s
	- opening	1 s
Weight		9 kg / 19.9 lbs
Behavior in case of compressed air pressure drop	- Valve closed	valve remains closed
	- Valve open	undefined
Behavior in case of power failure	- Valve closed	Depending on customers installation
	- Valve open	Depending on customers installation

Electrical connections

Position indicator

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



Wiring diagram

Created by: JOM	Release date: 28.02.2017	2/2
Modified by:	Release date:	884233EA