VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum gate valve, Series 08.1, DN 63 (ID 2½'')
Ordering No. 08136-FA34

Description

Flange	DN 63 Flat flanges with O-ring grooves
Actuator	pneumatic, double acting – with solenoid valve
Feedthrough	Shaft feedthrough

Technical data

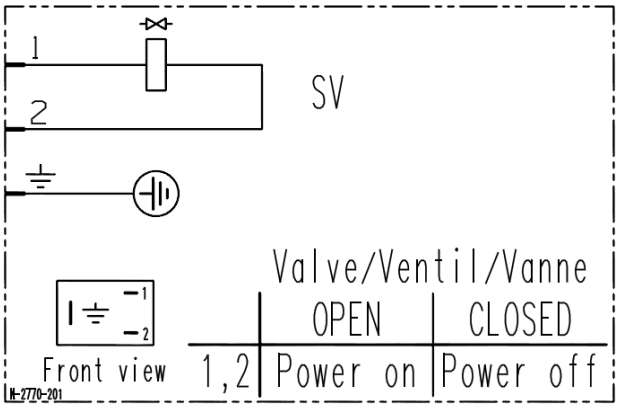
Leak rate	– Valve body	$< 5 \cdot 10^{-9}$ mbar ls^{-1}
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		$1 \cdot 10^{-7}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		≤ 1.6 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		1 000 ls^{-1}
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve Body – Actuator – Solenoid valve	≤ 120 °C ≤ 80 °C ≤ 50 °C
Heating and cooling rate		50 °C h^{-1}
Material (main components)	– Valve Body – Mechanism	EN AW-5083 (3.3547), EN AW-6061 (3.3211) AISI 304 (1.4301)
Seal	– Bonnet – Gate – Shaft feedthrough	FKM (Viton®) FKM (Viton®) FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		0.16 l / 0.0056 ft^3
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G⅛'' (⅛" NPT for USA)
Actuation time	– closing – opening	1.5 s 1.5 s

Behavior in case of compressed air pressure drop	– Valve closed	valve remains closed
	– Valve open	undefined
Behavior in case of power failure	– Valve closed	valve remains closed
	– Valve open	valve closes

Electrical connections

Solenoid valve

Type	4/2 way
Voltage	Defined by order



Wiring diagram