VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 110, DN 250 (ID 10'')
Ordering No. 11048-PE48

Description

Flange	ISO-F 250
Actuator	Pneumatic double acting, with 3-position actuator – with solenoid valve – with position indicator
Feedthrough	Bellows

Technical data

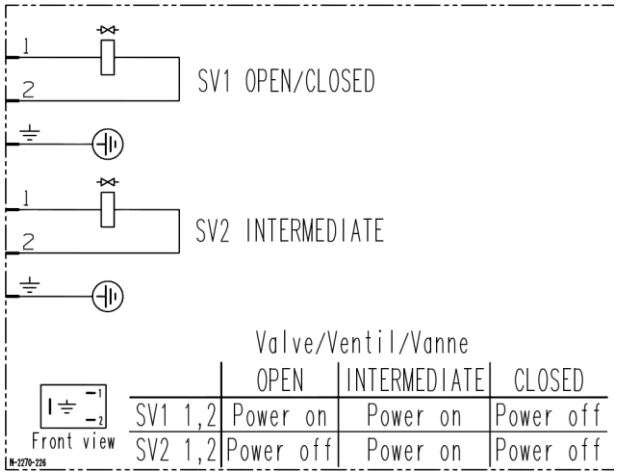
Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		27 110 ls^{-1}
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body	≤ 150 °C
	– Actuator	≤ 80 °C
	– Solenoid valve	≤ 50 °C
	– Position indicator	≤ 50 °C
Heating and cooling rate		50 °C h^{-1}
Material (main components)	– Valve body	AISI 304 (1.4301)
	– Mechanism	AISI 304 (1.4301)
	– Bellows	AISI 633 (AM350)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), O-ring
	– Actuator	FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.35 l / 0.0124 ft^3
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		G⅛'' (⅛'' NPT for USA)
Actuation time	– Closing	4.5 s
	– Opening	4.5 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

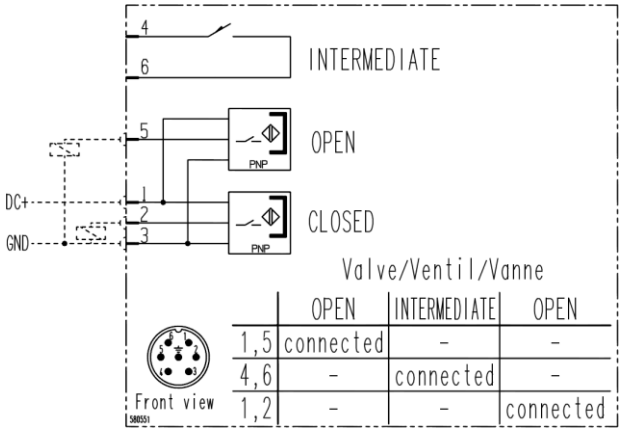
Type	4/2 way
Voltage	Defined by order



Wiring diagram

Position indicator

Type	PNP NO with LED
Voltage	10 – 30 V DC
Current max.	200 mA
Power max.	10 W
Cable length	160 mm / 6.3 inch



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