



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 111, DN 200 (8")
Ordering No. 11146-TE48

Description

Flange	ASA-LP 200
Actuator	pneumatic, double acting, with 3-position indicators <ul style="list-style-type: none"> - 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 1.6 bar (abs)
Differential pressure on the gate		≤ 1.6 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		12 200 ls ⁻¹
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature	– Valve Body	≤ 150 °C (bake-out max. 24h)
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 120 °C
	– Solenoid valve	≤ 50 °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)
	– Bellows	AISI 316L (1.4404, 1.4435)
	– Bushing	Hydrocarbonate
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), vulcanized
	– Actuator	FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.25 l / 0.0087 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G $\frac{1}{8}$ " ($\frac{1}{8}$ " NPT for USA)
Actuation time	– closing	2 s
	– opening	2 s
Weight		34 kg / 75 lbs
Behavior in case of compressed air pressure drop	– Valve closed	valve remains closed
	– Valve open	undefined
	– Middle position	undefined
Behavior in case of power failure	– Valve closed	valve remains closed
	– Valve open	valve closes
	– Middle position	valve closes

Created by: SAVI	Release date: 20.07.2021	1/2
Modified by:	Release date:	1117246EA



VAT Vakuumentile AG
CH-9469 Haag, Schweiz

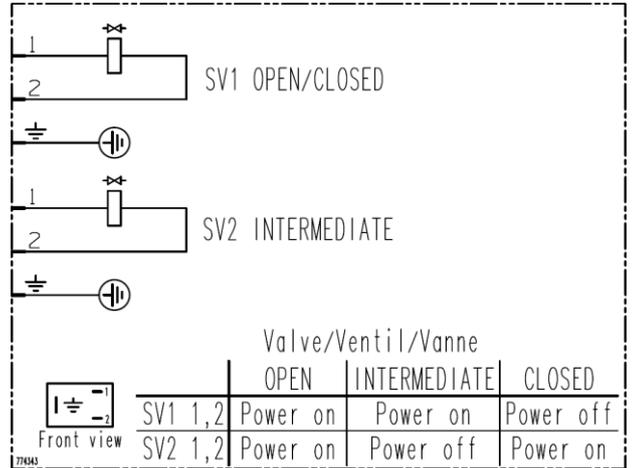
Product data sheet

HV gate valve, Series 111, DN 200 (8")
Ordering No. 11146-TE48

Electrical connections

Solenoid valve

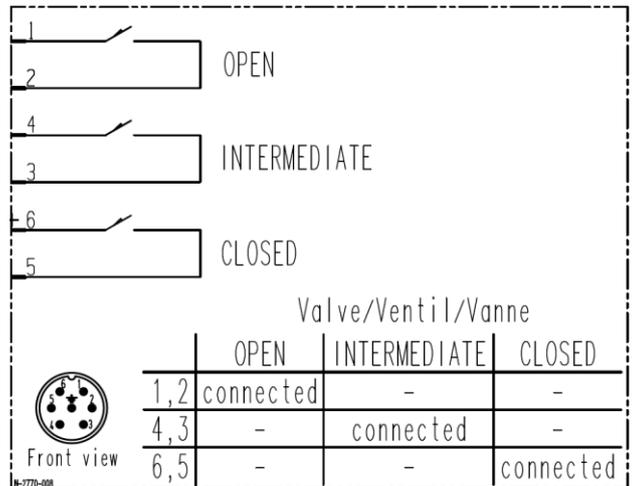
Type 4/2 way
Voltage Defined by order



Wiring diagram

Position indicator

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



Wiring diagram

Created by: SAVI	Release date: 20.07.2021	2/2
Modified by:	Release date:	1117246EA