



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**HV gate valve, Series 111, DN 320 (12")**  
**Ordering No. 11150-PE28**

### Description

Flange	ISO-F 320
Actuator	pneumatic, double acting, with 3-position actuator – with position indicator
Feedthrough	Bellows

### Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup> $< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the gate		$\leq 1.2$ bar
Differential pressure at opening		$\leq 30$ mbar
Conductance (molecular flow)		29 130 ls <sup>-1</sup>
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 – Position indicator	$\leq 150$ °C (bake-out max. 24h) $\leq 120$ °C $\leq 50$ °C $\leq 80$ °C
Heating and cooling rate		50 °C h <sup>-1</sup>
Material (main components)	– Valve Body – Mechanism – Bellows – Bushing	AISI 304 (1.4301) AISI 304 (1.4301) AISI 316L (1.4404, 1.4435) Hydrocarbonate
Seal	– Bonnet – Gate – Actuator	FKM (Viton®) FKM (Viton®), O-ring FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.48 l / 0.0167 ft <sup>3</sup>
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		G $\frac{1}{8}$ " (½" NPT for USA)
Actuation time	– closing – opening	5 s 5 s
Weight		91 kg / 201 lbs
Behavior in case of compressed air pressure drop	– Valve closed – Valve open – Middle position	valve remains closed undefined undefined
Behavior in case of power failure	– Valve closed – Valve open – Middle position	depending on customer installation depending on customer installation depending on customer installation

Created by: SAVI	Release date: 27.06.2022	1/2
Modified by:	Release date:	<b>1170011EA</b>



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### Electrical connections

#### Position indicator

Type

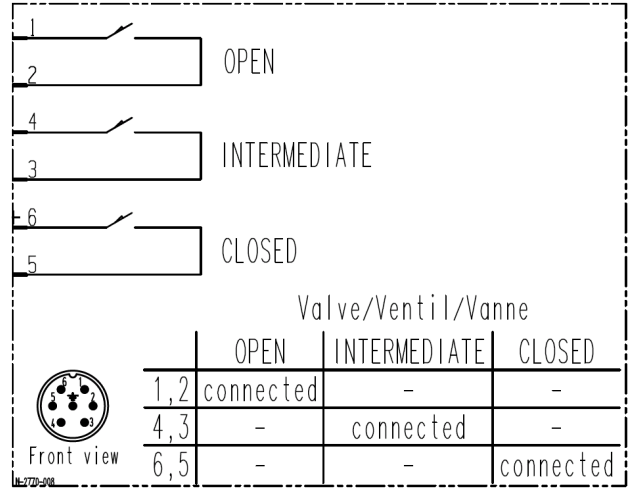
Micro switch

Voltage

≤ 50 V AC / DC

Current max.

≤ 1.2 A



Wiring diagram

Created by: SAVI	Release date: 27.06.2022	2/2
Modified by:	Release date:	<b>1170011EA</b>