



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**HV gate valve, Series 140, DN 400 (ID 16'')**  
**Ordering No. 14052-PE08**

### Description

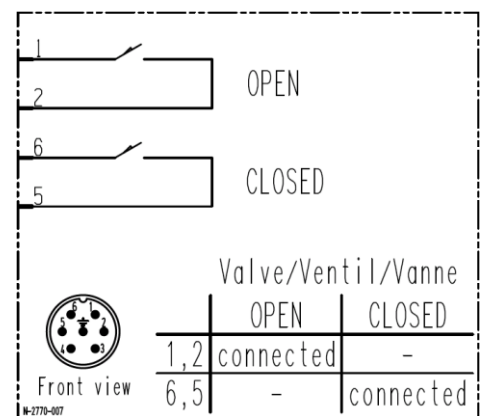
Flange	ISO-F 400
Actuator	Manual, handwheel – with position indicator
Feedthrough	Rotary feedthrough

### Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
	– Valve seat	$< 1 \cdot 10^{-9}$ 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)		52 000 ls <sup>-1</sup>
Cycles until first service	– Unheated and under clean conditions	200 000 (valve in horizontal position) 50 000 (valve in vertical position)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body	$\leq 150$ °C
	– Actuator	$\leq 80$ °C
	– Position indicator	$\leq 80$ °C
Heating and cooling rate		50 °C h <sup>-1</sup>
Material (main components)	– Valve body	AISI 304 (1.4301)
	– Mechanism	AISI 304 (1.4301)
Seal	– Bonnet	FKM (Viton®), O-ring
	– Gate	FKM (Viton®), O-ring
	– Actuator	NBR
Compressed air connection		G $\frac{1}{8}$ " (½" NPT for USA)
Mounting position		horizontal (vertical with restriction)
Weight		141 kg / 311 lbs

### Position indicator

Type	Micro switch	
Voltage	$\leq 250$ V AC	$\leq 50$ V DC
Current max.	$\leq 5$ A	$\leq 3$ A



Wiring diagram

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