



VAT Vakuumentile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Large vacuum gate valve, Series 190, DN 900 (ID 36")**  
**Ordering No. 19059-PE44-**

### Description

Flange	DN 900
Actuator	Pneumatic, double acting – with solenoid valve – with position indicator
Feedthrough	Shaft feedthrough

### 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		$1 \cdot 10^{-7}$ mbar to 1 bar (abs)
Differential pressure on the gate	– In opening direction – In closing direction	$\leq 1$ bar $\leq 1$ bar
Differential pressure at opening		$\leq 10$ mbar
Conductance (molecular flow)	ISO-F	430 000 ls <sup>-1</sup>
Cycles until first service		10 000 (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 $\leq 80$ °C $\leq 50$ °C $\leq 80$ °C
Heating and cooling rate		5 °C h <sup>-1</sup>
Material	– Valve body – Mechanism	AISI 304 (1.4301) EN AW-6082 (3.2315), AISI 304 (1.4301)
Seal	– Bonnet – Gate – Actuator	FKM (Viton®) FKM (Viton®) NBR
Mounting position		On request
Volume of pneumatic actuator		20.8 l / 0.735 ft <sup>3</sup>
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection	Mit SV (löschen)	Plug in connection $\varnothing 12$ mm G $\frac{3}{8}$ " ( $\frac{3}{8}$ " NPT for USA)
Actuation time	– Closing – Opening	23 s 23 s
Weight		760 kg / 1676 lbs
Behavior in case of compressed air pressure drop	– Valve closed – Valve open – During actuation	valve remains closed undefined undefined

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Behavior in case of power failure

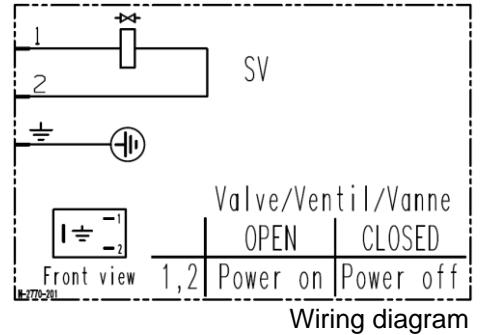
- Valve closed
- Valve open
- During actuation

valve remains closed  
valve closes  
valve closes

### Electrical connections

#### Solenoid valve

Type 5/2 way  
Voltage Defined by order



#### Position indicator

Type PNP NO with LED  
Voltage 10 - 30 V DC  
Current max. 200 mA  
Power max. 10 W  
Cable length 2 meter

