



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Large gate valves, Series 190, DN 400 (16")**  
**Ordering No. 19052-PE24-0002**

### Description

Flange	ISO-F 400
Actuator	pneumatic, double acting – 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		$\leq 20$ mbar
Conductance (molecular flow)		52 000 ls <sup>-1</sup>
Cycles until first service		100 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Position indicator	$\leq 150$ °C $\leq 80$ °C $\leq 80$ °C
Heating and cooling rate		30 °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		any
Volume of pneumatic actuator		5.9 l / 0.208 ft <sup>3</sup>
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		G $\frac{1}{4}$ " (¼" NPT for USA)
Actuation time	– closing – opening	8 s 8 s
Weight		140 kg / 309 lbs

Created by: BISS	Release date: 31.01.2019	1/2
Modified by:	Release date:	<b>967766EA</b>



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Behavior in case of compressed air pressure drop

- Valve closed
- Valve open
- During actuation

valve remains closed  
undefined  
undefined

Behavior in case of power failure

- Valve closed
- Valve open
- During actuation

depending on customer installation  
depending on customer installation  
depending on customer installation

### Position indicator

Type PNP (NO with LED)  
Voltage 10..30 V DC  
Current max. ≤ 0.2 A  
Cable length 2000 mm / 79 inch

