

# Product data sheet

Large vacuum gate valve, Series 190, DN 1000 (ID 40'') Ordering No. 19060-PE24

### Description

Flange		ISO-F 1000
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 · 10 <sup>-7</sup> mbar to 1 bar (abs)
Differential pressure on the gate	<ul> <li>in opening direction</li> <li>in closing direction</li> </ul>	≤ 1 bar ≤ 1 bar
Differential pressure at opening		≤ 10 mbar
Conductance (molecular flow)		505 000 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)	<ul> <li>Valve body</li> <li>Actuator</li> <li>Position indicator</li> </ul>	≤ 150 °C ≤ 80 °C ≤ 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 <sup>®</sup> ) FKM (Viton <sup>®</sup> ) NBR
Mounting position		On request
Volume of pneumatic actuator		22.6 I / 0.798 ft <sup>3</sup>
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		Plug in connection ø12 mm
Actuation time	– closing – opening	25 s 25 s
Weight		1000 kg / 2205 lbs

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Behavior in case of compressed air pressure drop	<ul><li>Valve closed</li><li>Valve open</li><li>During actuation</li></ul>
Behavior in case of power failure	<ul> <li>Valve closed</li> <li>Valve open</li> <li>During actuation</li> </ul>

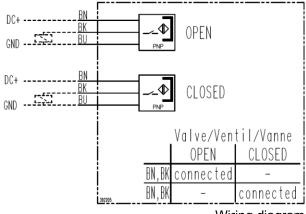
valve remains closed undefined undefined

valve remains closed valve closes valve closes

#### **Electrical connections**

#### **Position indicator**

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



Wiring diagram

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