



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Large UHV gate valve, Series 192, DN 500 (ID 20")
Ordering No. 19254-PE24

Description

Flange	ISO-F 500
Actuator	pneumatic, double acting – with position indicator
Feedthrough	Bellow

Technical data

Leak rate	– Valve body	$< 5 \cdot 10^{-10}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-10}$ mbar to 1 bar (abs)
Differential pressure on the gate		≤ 1 bar
Differential pressure at opening		≤ 20 mbar
Conductance (molecular flow)		90 000 ls ⁻¹
Cycles until first service		20 000 (unheated and under clean conditions)
Temperature	– Valve body	≤ 150 °C
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 80 °C
	– Position indicator	≤ 80 °C
Heating and cooling rate		30 °C h ⁻¹
Material	– Valve body	AISI 304 (1.4301)
	– Mechanism	EN AW-6082 (3.2315), AISI 304 (1.4301)
	– Bellows	AISI 316L (1.4435) or AISI 304L (1.4306)
Seal	– Bonnet	Metal
	– Gate	FKM (Viton®)
	– Actuator	NBR
Mounting position		any
Volume of pneumatic actuator		2.7 l / 0.095 ft ³
Compressed air min. – max. overpressure		5 – 9 bar / 73 – 131 psi
Compressed air connection		G $\frac{1}{8}$ " (1/8" NPT for USA)
Actuation time	– closing	10 s
	– opening	10 s
Weight		235 kg / 518 lbs

Created by: HDE	Release date: 2013-11-15	1 of 2
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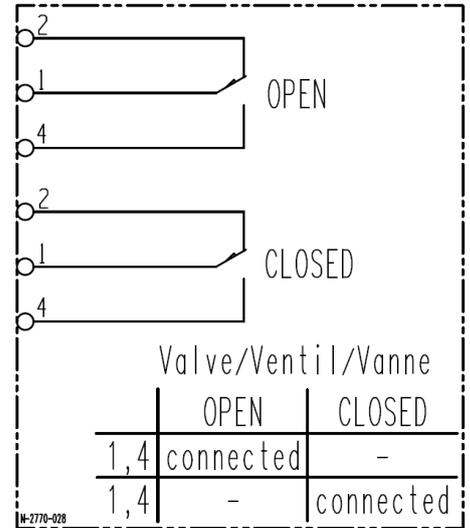
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Behavior in case of compressed air pressure drop	– Valve closed	valve remains closed
	– Valve open	undefined
	– During actuation	undefined
Behavior in case of power failure	– Valve closed	valve remains closed
	– Valve open	valve closes
	– During actuation	valve closes

Electrical connections

Position indicator

Type	Micro switch	
Voltage	≤ 50 V DC	≤ 250 V AC
Current max.	≤ 1.2 A	≤ 2 A



Wiring diagram

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