VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Large vacuum gate valve, Series 190, DN 500 (ID 20'')
Ordering No. 19054-PE24

Description

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

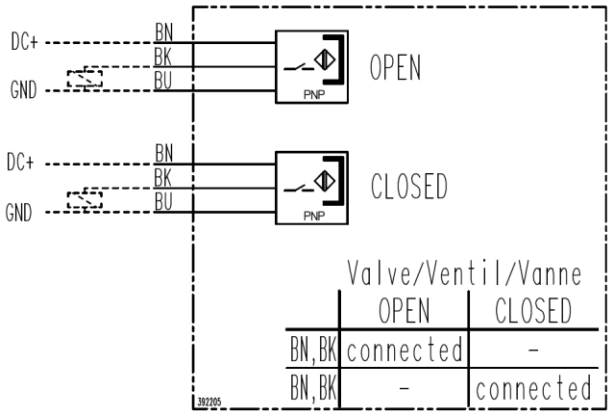
Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1} $< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		$1 \cdot 10^{-7}$ mbar to 1 bar (abs)
Differential pressure on the gate	– in opening direction – in closing direction	≤ 1 bar ≤ 1 bar
Differential pressure at opening		≤ 20 mbar
Conductance (molecular flow)		90 000 ls^{-1}
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	≤ 150 °C ≤ 80 °C ≤ 80 °C
Heating and cooling rate		30 °C h^{-1}
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		6.9 l / 0.244 ft^3
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		Plug in connection ø10 mm
Actuation time	– closing – opening	8 s 8 s
Weight		200 kg / 441 lbs

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

Position indicator

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



Wiring diagram