



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Low particle gate valve, Series 150, DN 100 (ID 4'')

Ordering No. 15040-PA24

Description

Flange	ISO-F 100
Actuator	Pneumatic, double acting – with position indicator
Feedthrough	Shaft feedthrough

Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-7}$ mbar to 1 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		1 700 ls ⁻¹
Cycles until first service		500 000 (unheated and under clean conditions)
Temperature	– Valve Body	≤ 120 °C (bake-out max. 24h)
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 100 °C
	– Position indicator	≤ 80 °C
Heating and cooling rate		30 °C h ⁻¹
Material (main components)	– Valve Body	EN AW-6082 (3.2315)
	– Gate	EN AW-6082 (3.2315)
	– Shaft	AISI 303 (1.4305)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), vulcanized
	– Actuator	FKM (Viton®)
Mounting position		Any
Volume of pneumatic actuator		0.32 l / 0.011 ft ³
Compressed air		4 – 7 bar / 58 – 102 psi
min. – max. overpressure		
Compressed air connection		M5 (10-32 UNF suitable)

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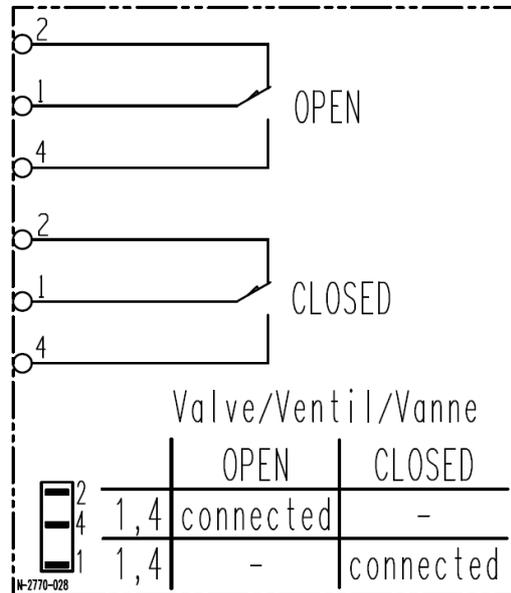
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Actuation time	- closing	≤ 2.8 s
	- opening	≤ 2.8 s
Weight		8.6 kg / 19. lbs
Behavior in case of compressed air pressure drop	- Valve closed	- Undefined (not mechanically locked)
	- Valve open	- Undefined (not mechanically locked)
Behavior in case of power failure	- Valve closed	- Depending on customer installation
	- Valve open	- Depending on customer installation

Electrical connections

Position indicator

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



Wiring diagram

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