



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 140, DN 100 (ID 4'')
Ordering No. 14040-JE24

Description

Flange	JIS 100
Actuator	Pneumatic, double acting – with position indicator
Feedthrough	Rotary 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		$1 \cdot 10^{-8}$ mbar to 2 bar (abs)
Differential pressure on the gate		≤ 2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		1'740 ls ⁻¹
Cycles until first service		200'000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Pneumatic actuator – Position indicator	≤ 150 °C ≤ 50 °C ≤ 80 °C
Heating and cooling rate		50 °C h ⁻¹
Material (main components)	– Valve body – Mechanism	AISI 304 (1.4301) AISI 304 (1.4301)
Seal	– Bonnet – Gate – Actuator	FKM (Viton®), Vulcanized FKM (Viton®), O-ring FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.15 l / 0.005 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G $\frac{1}{8}$ " ($\frac{1}{8}$ " NPT for USA)
Actuation time	– closing – opening	1.5 s 1.5 s
Weight		15 kg / 34 lbs
Behavior in case of compressed air pressure drop	– Valve closed – Valve open	valve remains closed undefined
Behavior in case of power failure	– Valve closed – Valve open	depending on customer installation depending on customer installation

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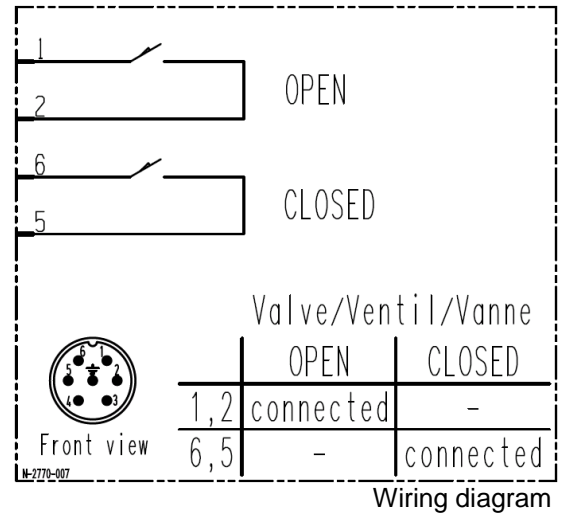
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Electrical connections

Position indicator

Type	Micro switch
Voltage	≤ 250 V AC ≤ 50 V DC
Current max.	≤ 5 A ≤ 3 A



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