



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Mini Vakuum gate valve, Series 012, DN 50 (ID 2")
Ordering No. 01234-KA24

Description

Flange	ISO-KF 50
Actuator	pneumatic, double acting – with position indicator
Feedthrough	Shaft feed through

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 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		260 ls ⁻¹
Cycles until first service		50 000
Temperature	– Valve Body	≤ 100 °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	EN AW – 6082 (3.2315)
	– Gate	AISI 304 (1.4301)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), vulcanized
	– Actuator	FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		0.07 l / 0.002 ft ³
Compressed air min. – max. overpressure		4.5 – 7 bar / 65 – 100 psi
Compressed air connection		M 5 (10-32 UNF)
Actuation time	– closing	1.3 s
	– opening	1.3 s
Weight		1.5 kg / 3.3 lbs

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Behavior in case of compressed air pressure drop – Valve closed
– Valve open

valve remains closed depending on customer installation

Behavior in case of power failure – Valve closed
– Valve open

depending on customer installation depending on customer installation

Position indicator

Voltage ≤ 250 V AC ≤ 50 V AC / DC
Current max. 5.0 A ≤ 0.5 A
Power Max. 10 W

