



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Mini UHV gate valve, Series 010, DN 50 (ID 2")
Ordering No. 01034-KE11

Description

Flange	ISO-KF 50
Actuator	pneumatic, single acting with closing spring
Feedthrough	Bellows

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 2 bar (abs)
Differential pressure on the gate		≤ 2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		160 ls ⁻¹
Cycles until first service		50 000
Temperature	– Valve Body	≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h)
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 200 °C
Heating and cooling rate		≤ 50 °C h ⁻¹
Material	– Valve Body	AISI 304 (1.4301), AISI 316L (1.4435)
	– Gate	AISI 304 (1.4301)
	– Bellows	AISI 316L (1.4404, 1.4435)
Seal	– Bonnet	metal
	– Gate	FKM (Viton®), vulcanized
	– Actuator	FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		0.12 l / 0.004 ft ³
Compressed air		5 – 7 bar / 73 – 102 psi
min. – max. overpressure		
Compressed air connection		G 1/8" (1/8" NPT for USA)
Actuation time	– closing	0.7 s
	– opening	0.7 s
Weight		4.2 kg / 9.26 lbs

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

valve remains closed
valve closes

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

depending on customer installation
depending on customer installation

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