



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Mini Vakuum gate valve, Series 012, DN 50 (ID 2")
Ordering No. 01234-KA14

Description

Flange	ISO-KF 50
Actuator	pneumatic, double acting
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 (Maximum values: depending on operating conditions and sealing materials)	- Valve Body	≤ 100 °C
	- Actuator	≤ 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
Behavior in case of compressed air pressure drop	- Valve closed	valve remains closed
	- Valve open	depending on customer installation
Behavior in case of power failure	- Valve closed	depending on customer installation
	- Valve open	depending on customer installation

Created by: SON	Release date: 2012-12-21	1 of 1
Modified by:	Release date:	298770EA