



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum gate valve, Series 08.2, DN 50 (ID 2'')
Ordering No. 08234-FA14

Description

Flange	DN 50 Flat flanges with O-ring grooves
Actuator	pneumatic, double acting
Feedthrough	Shaft feedthrough

Technical data

Leak rate	- Valve body	$< 5 \cdot 10^{-9}$ mbar ls ⁻¹
	- Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-7}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		≤ 1.0 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		410 ls ⁻¹
Cycles until first service		50 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	- Valve Body	≤ 100 °C
	- Actuator	≤ 80 °C
Heating and cooling rate		50 °C h ⁻¹
Material (main components)	- Valve Body	EN AW-6082 (3.2315)
	- Mechanism	AISI 301 (1.4310)
Seal	- Bonnet	FKM (Viton®)
	- Gate	FKM (Viton®)
	- Shaft feedthrough	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		M5 (10-32 UNF suitable)
Actuation time	- closing	1.2 s
	- opening	1.2 s
Weight		1.4 kg / 3.1 lbs
Behavior in case of compressed air pressure drop	- Valve closed	valve remains closed
	- Valve open	undefined
Behavior in case of power failure	- Valve closed	depending on customer installation
	- Valve open	depending on customer installation

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