



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum gate valve, Series 08.1, DN 100 (ID 4")
Ordering No. 08140-FA14

Description

Flange	DN 100 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		≤ 1.6 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		3 800 ls ⁻¹
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature	– Valve Body	≤ 120 °C
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 80 °C
Heating and cooling rate		50 °C h ⁻¹
Material (main components)	– Valve Body	EN AW-5083 (3.3547), EN AW-6061 (3.3211)
	– Mechanism	AISI 304 (1.4301)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®)
	– Shaft feedthrough	FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		0.22 l / 0.0078 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		M5 (10-32 UNF suitable)
Actuation time	– closing	2 s
	– opening	2 s
Weight		3.2 kg / 7.1 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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