



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV Gate Valve, Series 140, DN 80
Ordering No. 14038-PE14

Description

Flange	ISO-F 80
Actuator	Pneumatic, double acting
Feedthrough	Rotary feedthrough

Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-8}$ mbar to 2 bar (abs)
Differential pressure on the plate	– In closing direction	≤ 2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		890 ls ⁻¹
Cycles until first service		200'000 (unheated and under clean conditions)
Temperature	– Valve body	≤ 150 °C
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 50 °C
Heating and cooling rate		50 °C h ⁻¹
Material	– Valve body	AISI 304 (1.4301)
	– Mechanism	AISI 304 (1.4301)
Seal	– Bonnet	FKM (Viton®), vulcanized
	– Gate	FKM (Viton®), O-ring
	– Actuator	FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.15 l / 0.005 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G $\frac{1}{8}$ " ($\frac{1}{8}$ " NPT for USA)
Actuation time	– Closing	1.5 s
	– Opening	1.5 s
Weight		10 kg / 22 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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