



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 140, DN 320 (ID 12'')

Ordering No. 14050-PE14-0009

Description

Flange	ISO-F 320
Actuator	Pneumatic, double acting
Feedthrough	Rotary feedthrough

Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
	– Valve seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
Pressure range		$1 \cdot 10^{-8} \text{ mbar}$ to 1.2 bar (abs)
Differential pressure on the gate		$\leq 1.2 \text{ bar}$
Differential pressure at opening		$\leq 30 \text{ mbar}$
Conductance (molecular flow)		$32\,690 \text{ ls}^{-1}$
Cycles until first service	– Unheated and under clean conditions	200 000 (valve in horizontal position) 50 000 (valve in vertical position)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body	$\leq 150 \text{ }^\circ\text{C}$
	– Pneumatic actuator	$\leq 50 \text{ }^\circ\text{C}$
Heating and cooling rate		$50 \text{ }^\circ\text{C h}^{-1}$
Material (main components)	– Valve body	AISI 304 (1.4301)
	– Mechanism	AISI 304 (1.4301)
Seal	– Bonnet	FKM (Viton [®]), O-ring
	– Gate	FKM (Viton [®]), O-ring
	– Actuator	FKM (Viton [®]), NBR
Mounting position		any
Volume of pneumatic actuator		0.75 l / 0.025 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G $\frac{1}{8}$ '' (1/8'' NPT for USA)
Actuation time	– closing	4.5 s
	– opening	4.5 s
Weight		100 kg / 221 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	

Created by: MAY	Release date: 06.07.2015	1/1
Modified by:	Release date:	804174EA