



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**HV gate valve, Series 110, DN 160 (ID 6'')**  
**Ordering No. 11044-UE14**

### Description

Flange	CF-F 160 UNF
Actuator	Pneumatic, double acting
Feedthrough	Bellows

### Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.6 bar (abs)
Differential pressure on the plate		$\leq 1.6$ bar
Differential pressure at opening		$\leq 30$ mbar
Conductance (molecular flow)		5880 ls <sup>-1</sup>
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature	– Valve body	$\leq 150$ °C
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	$\leq 80$ °C
Heating and cooling rate		50 °C h <sup>-1</sup>
Material (main components)	– Valve body	AISI 304 (1.4301)
	– Mechanism	AISI 316L (1.4404)
	– Bellows	AISI 633 (AM350)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), vulcanized
	– Actuator	FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.15 l / 0.0053 ft <sup>3</sup>
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		M5 female (10-32 UNF suitable)
Actuation time	– Closing	2.5 s
	– Opening	2.5 s
Weight		13.5 kg / 29.8 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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