



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 140, DN 250 (ID 10'')
Ordering No. 14048-PE01

Description

Flange	ISO-F 250
Actuator	Manual, handwheel
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)		$21\,690 \text{ ls}^{-1}$
Cycles until first service	- Unheated and under clean conditions	200 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	- Valve body	$\leq 150 \text{ }^\circ\text{C}$
	- Manual actuator	$\leq 80 \text{ }^\circ\text{C}$
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), AISI 316L (1.4404)
Seal	- Bonnet	FKM (Viton [®]), O-ring
	- Gate	FKM (Viton [®]), O-ring
	- Actuator	FKM (Viton [®]), NBR
Mounting position		any
Weight		60.0 kg / 132.0 lbs

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