



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 140, DN 400 (ID 16'')
Ordering No. 14052-PE01

Description

Flange	ISO-F 400
Actuator	Manual, handwheel
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 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		52 000 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	≤ 150 °C
	- Actuator	≤ 80 °C
Heating and cooling rate		50 °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	NBR
Compressed air connection		G $\frac{1}{8}$ " ($\frac{1}{8}$ " NPT for USA)
Mounting position		horizontal (vertical with restriction)
Weight		approx. 155 kg / 340 lbs

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