



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 140, DN 400 (ID 16'')
Ordering No. 14052-JE08

Description

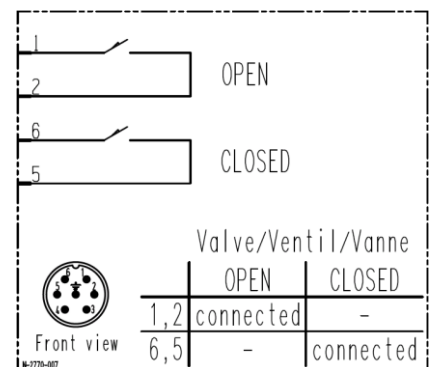
Flange	JIS 400
Actuator	Manual, handwheel – with position indicator
Feedthrough	Rotary feedthrough

Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
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)		$52\,000 \text{ ls}^{-1}$
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 – Actuator – Position indicator	$\leq 150 \text{ }^{\circ}\text{C}$ $\leq 80 \text{ }^{\circ}\text{C}$ $\leq 80 \text{ }^{\circ}\text{C}$
Heating and cooling rate		$50 \text{ }^{\circ}\text{C h}^{-1}$
Material (main components)	– Valve body – Mechanism	AISI 304 (1.4301) AISI 304 (1.4301)
Seal	– Bonnet – Gate – Actuator	FKM (Viton [®]), O-ring FKM (Viton [®]), O-ring NBR
Compressed air connection		G $\frac{1}{8}$ " ($\frac{1}{8}$ " NPT for USA)
Mounting position		horizontal (vertical with restriction)
Weight		139 kg / 306 lbs

Position indicator

Type	Micro switch	
Voltage	$\leq 250 \text{ V AC}$	$\leq 50 \text{ V DC}$
Current max.	$\leq 5 \text{ A}$	$\leq 3 \text{ A}$



Wiring diagram

Created by: MAEM	Release date: 2013-04-15	1 of 1
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