



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 091, DN 100 (ID 4'')
Ordering No. 09140-JE08

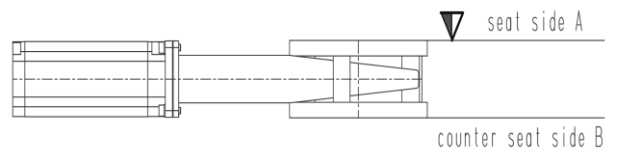
Description

Flange	JIS 100
Actuator	Manual actuator with position indicator, detachable handle, self locking in any position
Number of turns needed for full stroke	39 Turns
Feedthrough	Bellows feedthrough

Technical data

Leak rate	
– Valve body	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
– Valve seat	$< 1 \cdot 10^{-7} \text{ mbar ls}^{-1}$
Pressure range	$1 \cdot 10^{-8} \text{ mbar}$ to 1.2 bar (abs)
Differential pressure on the gate	$\leq 1.2 \text{ bar}$
Conductance (molecular flow)	$1\,700 \text{ ls}^{-1}$

Max. differential pressure at opening in closing and opening direction with influence to the cycle life



– Higher pressure on seat side A, the differential pressure acts in opening direction	$\leq 1.0 \text{ bar}$ with full cycle life
– Higher pressure on counter seat side B, the differential pressure acts in closing direction	$\leq 30 \text{ mbar}$ with full cycle life
– Higher pressure on counter seat side B, the differential pressure acts in closing direction	$\leq 1.0 \text{ bar}$ with reduced cycle life
Cycles until first service	5 000 (unheated and under clean conditions)
Bellows cycles	100 000 (unheated and under clean conditions)
Bake-out temperature	
– Valve body	$\leq 150 \text{ }^\circ\text{C}$ (bake-out max. 24h)
– Actuator	$\leq 100 \text{ }^\circ\text{C}$
– Position indicator	$\leq 60 \text{ }^\circ\text{C}$

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Heating and cooling rate

50 °C h⁻¹

Material

- Valve body
- Bonnet
- Gate
- Parts (in contact with media)
- Bellows

AISI 304 (1.4301)
EN AW-5083 (3.3547)
AISI 304 (1.4301), (1.4308)
A2 Ni-Teflon coated, PEEK
AISI 633, (AM350)

Seal

- Bonnet
- Gate
- Actuator

FKM (Viton®)
FKM (Viton®)
FKM (Viton®)

Mounting position

any

Weight

approx. 8.4 kg / 18.5 lbs

Position indicator

Type

Reed

Voltage

≤ 10-30 V DC

Current max.

≤ 0.5 A

