



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 091, DN 63 (ID 2½'')
Ordering No. 09136-JE01

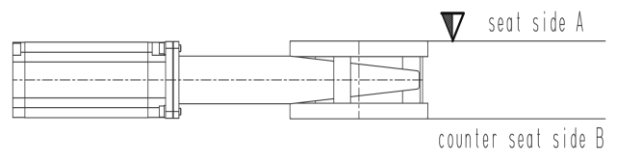
Description

| | |
|--|---|
| Flange | JIS 63 |
| Actuator | Manual actuator with detachable handle, self locking in any position, visual position indicator |
| Number of turns needed for full stroke | 27 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) | 400 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 | $\leq 100 \text{ }^\circ\text{C}$ |

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| Modified by: | Release date: | 286144EA |



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| | |
|---------------------------------|-----------------------------|
| Heating and cooling rate | 50 °C h ⁻¹ |
| Material | |
| – Valve body | AISI 304 (1.4301) |
| – Bonnet | EN AW-5083 (3.3547) |
| – Gate | AISI 304 (1.4301), (1.4308) |
| – Parts (in contact with media) | A2 Ni-Teflon coated, PEEK |
| – Bellows | AISI 633, (AM350) |
| Seal | |
| – Bonnet | FKM (Viton®) |
| – Gate | FKM (Viton®) |
| – Actuator | FKM (Viton®) |
| Mounting position | any |
| Weight | approx. 6.1 kg / 13.4 lbs |

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