



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

14.06.2005

PRODUCT DATA SHEET No. 261253EA
HV Bellows Gate Valve, Series 091 with Manual Actuator,
DN 100 (ID 4"), Ordering No. 09140-PE01
Patent pending

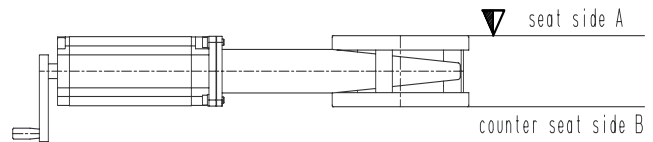
Description

| | |
|--|--|
| Flange | ISO-F |
| Actuator | Manual actuator with detachable handle, self locking in any position, visual position indicator. |
| - Functionality | |
| - Number of turns needed for full stroke | 39 Turns |
| Feedthrough | 100'000 Cycles bellows |

Technical Data

| | |
|------------------------------------|---|
| Leak rate | |
| - To the outside | $< 1 \cdot 10^{-9}$ mbar ls ⁻¹ |
| - Seat | $< 1 \cdot 10^{-7}$ mbar ls ⁻¹ |
| Molecular flow conductance | 1'700 ls ⁻¹ |
| Pressure range | $1 \cdot 10^{-9}$ mbar to 1.2 bar (abs) |
| Differential pressure on the gate | |
| - in closing and opening direction | ≤ 1.2 bar |

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 | ≤ 1.0 bar with full cycle life |
| Higher pressure on counter seat side B, the differential pressure acts in closing direction | ≤ 30 mbar with full cycle life |
| Higher pressure on counter seat side B, the differential pressure acts in closing direction | ≤ 1.0 bar with reduced cycle life |
| Cycles until first service | $\geq 5'000$ depending on process |
| Bake-out temperature | |
| - Body | $\leq 120^{\circ}\text{C}$ |
| - Actuator | $\leq 80^{\circ}\text{C}$ |
| Heating and cooling rate | $\leq 50^{\circ}\text{C h}^{-1}$ |

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| Replaced by | Replacement for | 261253EA |
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Material

- Body 1.4301, AISI 304
- Bonnet Aluminium
- Gate Stainless steel
- Small parts (in contact with media) A2 Ni-Teflon coated, PEEK
- Bellows AM350, AISI 633

Seal

- Bonnet FPM (Viton)
- Gate FPM (Viton)
- Bellows static seals FPM (Viton)
- Actuator FPM (Viton)

Mounting position

any

Weight

7.8 kg / 17.2 lbs

| | | |
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