



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

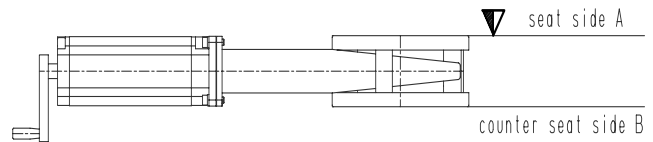
Description

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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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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