



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

09.12.10

PRODUCT DATA SHEET No. 287035EA
HV Bellows Gate Valve, Series 091 Manual Actuator, and
position indicators DN 100 (ID 6"),
Ordering No. 09140-JE08

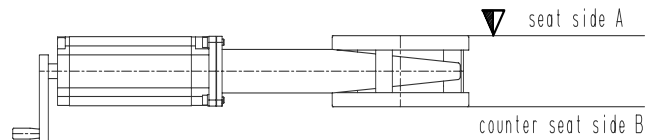
Description

Flange	JIS
Actuator	Manual actuator with detachable handle, self locking in any position, visual and electrical position indicators.
- Functionality	
- Number of turns needed for full stroke	41 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	5'000 depending on process
Bake-out temperature	
- Body	$\leq 120^{\circ}\text{C}$
- Actuator	$\leq 100^{\circ}\text{C}$
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

Position indicator data

see wiring diagram on page 3

Weight

7.8 kg / 17.2 lbs

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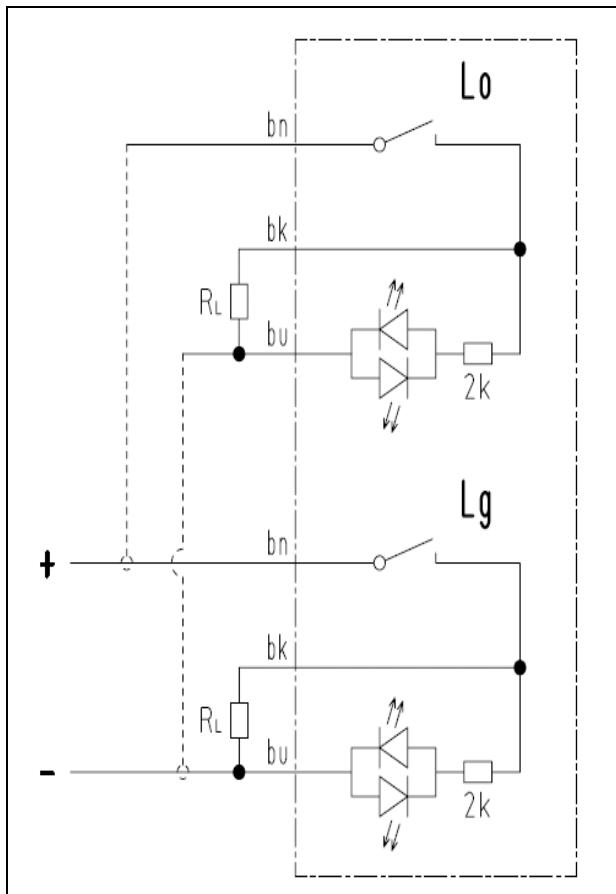


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Position Indicator



Operating voltage range	12.....30V
	AC / DC (=Vb)
Max. permitted residual ripple	±10% Vb
Max. permitted switching current	500 mA
Max. permitted switching output	10 W (Ohmic load)
Response time	< 0.5 ms
Max. permitted switching frequency	800 Hz
Short-circuit –proof	no
Polarity-reversal protection	no

Electrical connection

- bn: Brown
- bk: Black
- bu: Blue

Ambient temperature	
(cable immobile)	-20 °C....+60 °C
(cable moveable)	-5 °C....+60 °C
Storage temperature	-20 °C +60 °C

Protection class	IP65/67 according
	EN 60 529
Housing Material	PC, PET,
	Epoxy resin

Cable material	PUR
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Lo :Position indicator for valve gate in open position
Lg: Position indicator for valve gate in closed position

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