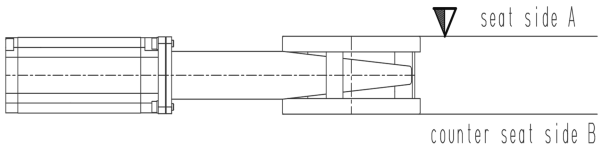
VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet
HV gate valve, Series 091, DN 50 (ID 2'')
Ordering No. 09134-KE08

Description

Flange	ISO-KF 50
Actuator	Manual actuator with detachable handle, self locking in any position, visual position indicator – with position indicator
Number of turns needed for full stroke	approx. 22 Turns
Feedthrough	Bellows feedthrough

Technical data

Leak rate	
– Valve body	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
– Valve seat	$< 1 \cdot 10^{-7}$ mbar ls^{-1}
Pressure range	$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the gate	≤ 1.2 bar
Conductance (molecular flow)	250 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	≤ 1.0 bar with full cycle life
– Higher pressure on counter seat side B, the differential pressure acts in closing direction	≤ 30mbar 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 (unheated and under clean conditions)
Bellows cycles	100 000 (unheated and under clean conditions)
Bake-out temperature	
– Valve body	≤ 150 °C (bake-out max. 24h)
– Actuator	≤ 100 °C
– Position indicator	≤ 60 °C

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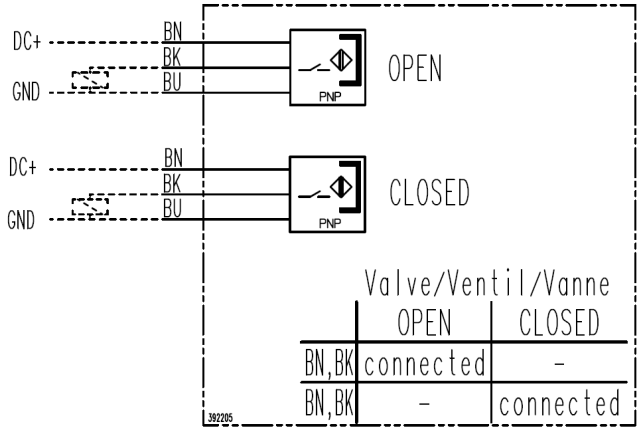
Heating and cooling rate	50 °C h^{-1}
Material	
– Valve body	AISI 304 (1.4301)
– Bonnet	EN AW-5083 (3.3547)
– Gate	AISI 304 (1.4301), (1.4308)
– Parts (in contact with media)	A2 Ni-Teflon coated, PEEK
– Bellows	AISI 633, (AM350)
Seal	
– Bonnet	FKM (Viton®)
– Gate	FKM (Viton®)
– Actuator	FKM (Viton®)
Mounting position	any
Weight	approx. 2.9 kg / 6.4 lbs

Electrical connections

Position indicator

Type	PNP (NO with LED)
Voltage	10..30 V DC
Current max.	200 mA



Wiring diagram