



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

### HV gate valve, Series 091, DN 63 (ID 2.5'')

Ordering No. 09136-UE24

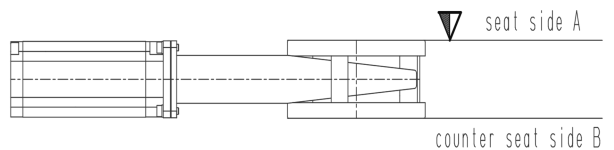
## Description

Flange	CF-F 63
Actuator	pneumatic, double acting – with position indicator
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)	$430 \text{ ls}^{-1}$

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	$\leq 100 \text{ }^{\circ}\text{C}$
– Position indicator	$\leq 60 \text{ }^{\circ}\text{C}$

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Heating and cooling rate	50 °C h <sup>-1</sup>						
Material							
– Valve body	AISI 304 (1.4301)						
– 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						
Volume of pneumatic actuator	0.17 l / 0.006 ft <sup>3</sup>						
Compressed air min. – max. overpressure	4 – 7 bar / 58 – 102 psi						
Compressed air connection	M5 (10-32 UNF suitable)						
Actuation time							
– closing	≤ 2 s						
– opening	≤ 2 s						
Behavior in case of compressed air pressure drop	<table><tr><td>– Valve closed</td><td>Valve remains closed (≥ 24h)</td></tr><tr><td>– Valve open</td><td>undefined</td></tr><tr><td>– During actuation</td><td>undefined</td></tr></table>	– Valve closed	Valve remains closed (≥ 24h)	– Valve open	undefined	– During actuation	undefined
– Valve closed	Valve remains closed (≥ 24h)						
– Valve open	undefined						
– During actuation	undefined						
Behavior in case of power failure	<table><tr><td>– Valve closed</td><td>depending on customer installation</td></tr><tr><td>– Valve open</td><td>depending on customer installation</td></tr><tr><td>– During actuation</td><td>depending on customer installation</td></tr></table>	– Valve closed	depending on customer installation	– Valve open	depending on customer installation	– During actuation	depending on customer installation
– Valve closed	depending on customer installation						
– Valve open	depending on customer installation						
– During actuation	depending on customer installation						
Weight	approx. 5.6 kg / 12.4 lbs						

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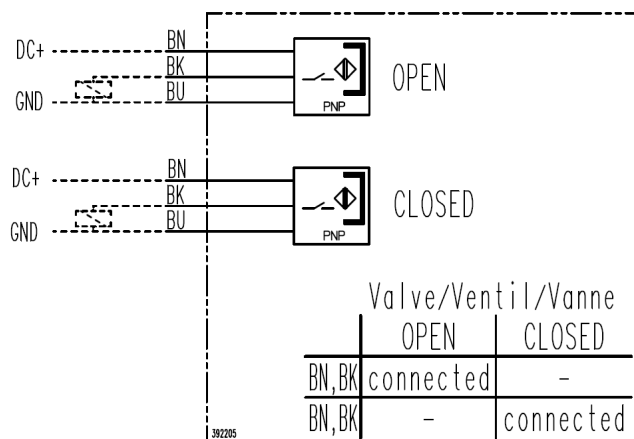
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## Electrical connections

### Position indicator

Type PNP (NO with LED)  
Voltage 10..30 V DC  
Current max.  $\leq 0.2$  A



Wiring diagram