



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve, Series 091, DN 63 (ID 2¹/₂")

Ordering No. 09136-CE14

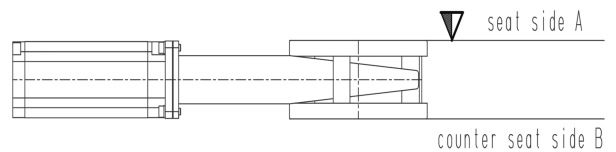
Description

Flange	CF-F 63
Actuator	pneumatic, double acting
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 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)
Bake-out temperature	
– Valve body	$\leq 150 \text{ }^\circ\text{C}$ (bake-out max. 24h)
– Actuator	$\leq 100 \text{ }^\circ\text{C}$
Heating and cooling rate	$50 \text{ }^\circ\text{C h}^{-1}$

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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

Seal

– Bonnet	FKM (Viton®)
– Gate	FKM (Viton®)
– Actuator	FKM (Viton®)

Mounting position

any

Compressed air min. – max. overpressure

4 – 7 bar / 58 – 102 psi

Volume of pneumatic actuator

0.16 l / 0.005 ft³

Compressed air connection

M5 (10 – 32 UNF suitable)

Actuation time

– Closing	≤2s
– opening	≤2s

Weight

approx. 5.0 kg / 11.0 lbs

Behavior in case of compressed air pressure drop

– Valve closed	valve remains closed (approx. 24h)
– Valve open	undefined
– During actuation	undefined

Behavior in case of power failure

– Valve closed	depending on customer installation
– Valve open	depending on customer installation
– During actuation	depending on customer installation

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