



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

HV gate valve

Series 091, DN 200 (8")

Ordering No. 09146-PE08-0001

Description Main Valve

Flange	ISO-F 200
Actuator	Manual – with position indicator
Feedthrough	Bellows

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 plate		≤ 1.2 bar
Differential pressure at actuation	– In opening direction	≤ 1 bar ¹
	– In closing direction	≤ 30 mbar (1 bar with reduced cycle life) ²
Conductance (molecular flow)		9 500 ls ⁻¹
Cycles until first service		1 000 (unheated and under clean conditions)
Temperature	– Valve body	≤ 180 °C
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 100 °C
	– Position indicator	≤ 70 °C
Heating and cooling rate		50 °C h ⁻¹
Material	– Valve body	AISI 304 (1.4301)
	– Gate	AISI 304 (1.4301, 1.4308)
	– Bellows	AISI 633 (AM350)
	– Small parts	A2 Ni-PTFE coated, PEEK
Seal	– Bonnet	FKM
	– Gate	FKM
Mounting position		any
Actuation		58 turns for full stroke
Weight		28.5 kg / 62.8 lbs

Related documents

Dimensional drawing No. 1208750

¹ Differential pressure supports gate to open

² Differential pressure supports gate to stay closed. Therefore cycle life reduced due to increased wear of gate seal

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Electrical connections

Position indicator

Type

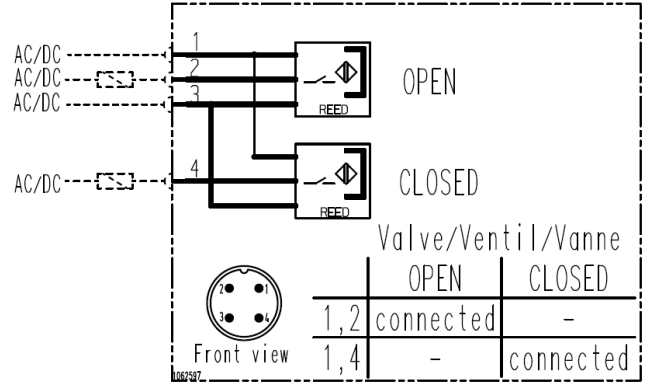
Reed (NO with LED)

Voltage

24 V AC/DC

Current max.

≤ 0.5 A



Wiring diagram

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