



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-metal gate valve, Series 481, DN 200 (ID 8")
Ordering No. 48146-CE72-0003

Description

Flange		DN 200 CF-F
Actuator		Pneumatic double acting, compact - without solenoid valve - with position indicator
Feed through		Bellows
Option	=	Standard

Technical data

Leak rate	- Valve body - Valve seat	$< 1 \cdot 10^{-10}$ mbar ls ⁻¹ $< 1 \cdot 10^{-10}$ mbar ls ⁻¹
Pressure range		XUHV to 2 bar (abs)
Test pressure		1 bar
Differential pressure on the gate		≤ 2 bar
Differential pressure at opening		500 mbar, 1 bar with reduced cycle life
Conductance (molecular flow)		6 900 ls ⁻¹
Cycles until first service		20 000
Bake-out temperature (Maximum values: depending on operating conditions and sealing materials)	- Valve body - Actuator - Position indicator	≤ 300 °C ≤ 200 °C (for max. 100h) ≤ 80 °C
Heating and cooling rate		≤ 25 °C h ⁻¹
Material	- Valve body - Flange - Gate - Mechanism - Bellows	1.4435, AISI 316 L 1.4435 ESU, AISI 316 L ESR 1.4435, AISI 316 L 1.4435, AISI 316 L 1.4435, AISI 316 L
Seal	- Bonnet - Gate - Actuator	metal, silver plated metal, silver plated FKM (Viton®)
Mounting position		any
Radiation resistance	- Valve body - Actuator - Position indicator	10 ⁸ Gy (10 ¹⁰ rad) 10 ⁵ Gy (10 ⁷ rad) 10 ⁵ Gy (10 ⁷ rad)
Volume of pneumatic actuator		8.3 l / 0.293 ft ³
Compressed air min. – max. overpressure		4 - 8 bar / 58 - 116 psig
Compressed air connections		R 1/8" (USA: 1/8" NPT)
Actuation time (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min)	- Closing - Opening	≤ 15.0 sec ≤ 15.0 sec

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Weight		88 kg / 194 lbs
Behavior in case of compressed air pressure drop	<ul style="list-style-type: none"> - Valve closed - Valve open 	Valve remains in closed position Undefined
Behavior in case of power failure	<ul style="list-style-type: none"> - Valve closed - Valve open 	Depending on control

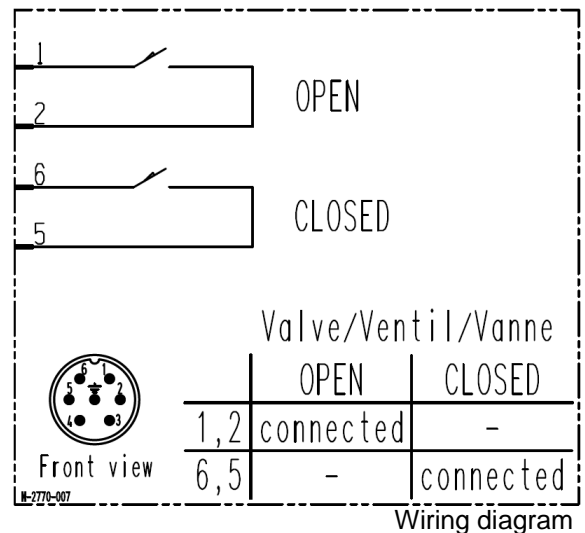
Related documents

Dimensional drawing No. 755987

Electrical connections

Position indicator

Type	micro switch
Voltage	≤ 50 V AC / DC
Current max.	≤ 1.2 A



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