

Product data sheet

Large vacuum gate valve, Series 191, DN 500 (ID 20") Ordering No. 19154-PE44

Description

Flange ISO-F 500

Actuator pneumatic, double acting

> with solenoid valve with position indicator

Feedthrough **Bellow**

Technical data

 $< 1 \cdot 10^{-9} \text{ mbar Is}^{-1}$ $< 1 \cdot 10^{-9} \text{ mbar Is}^{-1}$ Leak rate Valve body

Valve seat

 $1 \cdot 10^{-8}$ mbar to 1 bar (abs) Pressure range

Differential pressure on the plate in opening direction ≤ 1 bar

 in closing direction ≤ 1 bar

Differential pressure at opening ≤ 20 mbar 90000 ls⁻¹ ISO-F Conductance (molecular flow)

20 000 (unheated and under clean conditions) Cycles until first service

Temperature - Valve Body ≤ 150 °C (Maximum values: depending - Actuator ≤ 80 °C on operating conditions and Solenoid valve ≤ 50 °C sealing materials) - Position indicator ≤ 80 °C

Heating and cooling rate 30 °C h⁻¹

Material - Valve Body AISI 304 (1.4301)

> - Mechanism EN AW-6082 (3.2315), AISI 304 (1.4301) - Bellows AISI 316L (1.4435) or AISI 304L (1.4306)

Seal Bonnet FKM (Viton®)

FKM (Viton®) - Gate

- Actuator **NBR**

Mounting position any

2.7 I / 0.095 ft³ Volume of pneumatic actuator

5 - 9 bar / 73 - 131 psi Compressed air

min. - max. overpressure

G1/8" ISO / NPT Compressed air connection

- closing 10 s Actuation time - opening 10 s

Weight 235 kg / 518 lbs

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Behavior in case of — Valve

compressed air pressure drop

- Valve closed valve remains closed

Valve open undefinedDuring actuation undefined

Behavior in case of power

failure

Valve closed
 valve remains closed

Valve openDuring actuationvalve closes

Electrical connections

Solenoid valve

Type 5/2 way

Voltage Defined by order

SV

SV

SV

Valve/Ventil/Vanne

Ventil/Vanne

OPEN CLOSED

Front view 1,2 Power on Power off

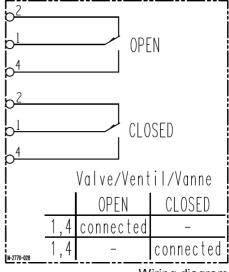
Wiring diagram

Position indicator

Type Micro switch

Voltage \leq 250 V AC \leq 50 V DC

Current max. \leq 3 A \leq 1.2 A



Wiring diagram

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