



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

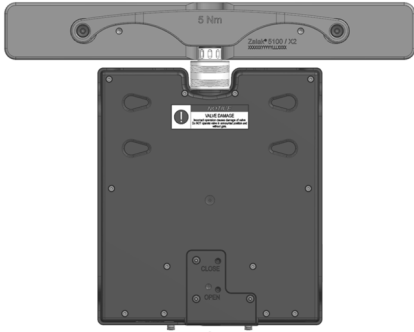
Product data sheet

ATM Door LINVAT

Series 070, DN 50x420 (1.97"x16.5")

Ordering No. 07020-UA24-0001

Description of Valve

| | | |
|-----------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|  | Actuator | L-MOTION Door Stroke: 57 mm Cylinder volume: 0.08 liters w/ position indicator w/ pneumatic lock in close position |
| | Gate | Size: 50 x 420mm Bonding: X2 Compound: Zalak®5100 Cleaning: level 1 Shape: MonoVAT Packaging: acc. to VAT standard |
| | Valve weight | ~8.0 kg (~17.5 lbs) |
| | Final assembly | VAT standard, ISO class 8 clean room |

Technical data

(at room temperature 25°C (unheated) and under clean environmental conditions, operated with standard actuation speed and standard compression)

LEAK RATES

| Location | Sealing surface | Compound | O-Ring / Bonded | Leak rate |
|----------|-----------------|------------|-----------------|-------------------------------------------|
| Seat | Bare aluminum | Zalak®5100 | Bonded | $< 1 \cdot 10^{-7}$ mbar ls ⁻¹ |

PRESSURE RANGES

| | |
|--------------------------------------------------------|-----------------------------------------|
| Bare aluminum | $1 \cdot 10^{-9}$ mbar to 1.1 bar (abs) |
| Differential pressure on the gate in closing direction | ≤ 1.0 bar |
| Differential pressure on the gate in opening direction | ≤ 0.1 bar |
| Differential pressure at opening | ≤ 30 mbar |

CYCLE LIFE (between maintenance)

| | |
|-------------------------------------------|------------------|
| Actuator (pneumatic and mechanical parts) | 3 million (MCBF) |
|-------------------------------------------|------------------|

OPERATING TEMPERATURE

| | |
|----------------------------------------------|------------------------------|
| Valve seat / gate | ≤ 120 °C |
| Actuator | ≤ 80 °C |
| Temperature difference between seat and gate | ≤ 40 °C |
| Heating and cooling rate | ≤ 40 °C h ⁻¹ |

MOUNTING POSITION

| |
|-------------------------------|
| Actuator downwards or upwards |
|-------------------------------|

| | | |
|-----------------|--------------------------|------------------|
| Created by: BRA | Release date: 23.04.2020 | 1/3 |
| Modified by: | Release date: | 1036942EA |



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MATERIALS

| | |
|--------------------|------------------------|
| Actuator body | EN AW-6061 |
| Actuator cover | ABS |
| Gate | EN AW-6082, EN AW-6061 |
| Shaft | AISI 304 (1.4301) |
| Protection bellows | Teflon |
| Screws | A4, A2 |

COMPRESSED AIR SUPPLY (use only clean, dry or slightly oiled air)

| | |
|----------------------------|----------------------------------------|
| Compressed air pressure | 4 - 6 bar / 58 - 88 PSI (overpressure) |
| Compressed air connections | O.D. 4mm quick connector |

ACTUATION TIME (Valid for flow rate min. 600SLPM, tube length <2m)

| | |
|---------|---------|
| Opening | < 1 sec |
| Closing | < 1 sec |

ACTION AT COMPRESSED AIR FAILURE

| | |
|------------------|-------------------------------------|
| Valve closed | Valve remains closed (>3h) |
| Valve open | Undefined or check valve optionally |
| During actuation | undefined |

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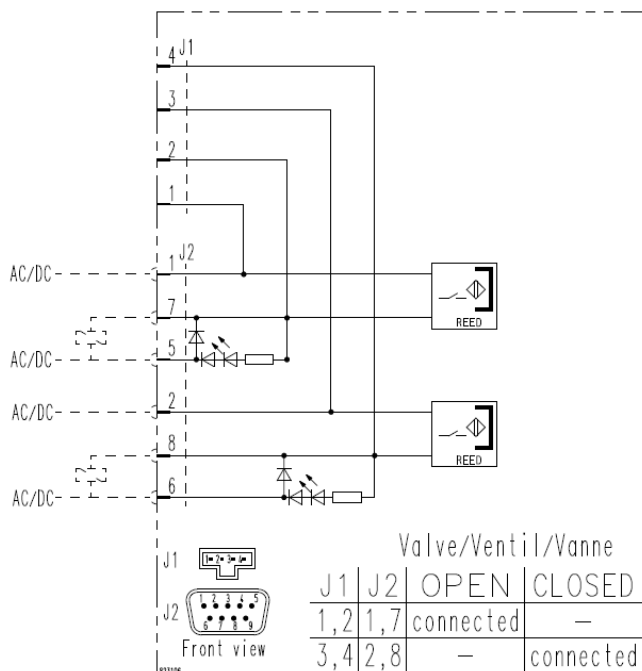
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ELECTRICAL CONNECTION

Electrical diagram

Logical diagram



| | |
|------------------------|---------------------|
| Sensor type | Reed switch |
| Voltage | ≤ 50V AC/DC |
| Current max. | ≤ 0.1A , >5mA |
| Temperature rating | ≤ 80 °C |
| Overcurrent protection | No |
| Type of connector | 9 pin / 4 pin, male |

PARE PARTS

| | |
|--------------|-----------------|
| Actuator Kit | VAT P/N 941870 |
| Gate Kit | VAT P/N 1036296 |



IMPORTANT NOTE:

In order to ensure proper function of the product, the following instructions must be followed.

- Product must not be operated if compressed air supply pressure is < 4 bar

Installation

Leave the product sealed in the plastic bag as long as possible in order to protect it from dust and particles. The seat and seals must not be cleaned before installation. The valve is assembled at VAT in a clean environment and sealed in a plastic bag.

| | | |
|-----------------|--------------------------|-----------|
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