



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Pendulum valve
Series 162, DN 500 (ID 20")
Ordering No. 16254-PA48

Description

| | |
|-------------|---|
| Flange | ISO-F 500 |
| Actuator | - 3-position pneumatic, single acting, with closing spring (NC) - with solenoid valve - with position indicator |
| Feedthrough | Rotary feedthrough |

Technical data

| | | |
|---|--|---|
| Leak rate | - Valve body - Valve seat | $< 1 \cdot 10^{-9}$ mbar ls ⁻¹ $< 1 \cdot 10^{-9}$ mbar ls ⁻¹ |
| Pressure range | | $1 \cdot 10^{-7}$ mbar to 1.2 bar (abs) |
| Differential pressure on the gate | | |
| - In closing direction | | ≤ 1.2 bar |
| - In opening direction | | ≤ 1.2 bar |
| Differential pressure at opening | | |
| - In closing direction | | ≤ 5 mbar |
| - In opening direction | | ≤ 5 mbar |
| Conductance (molecular flow) | | 100 000 ls ⁻¹ |
| Cycles until first service | | 200 000 (unheated and under clean conditions) |
| Temperature | - Valve body - Actuator - Solenoid valve - Position indicator | ≤ 120 °C ≤ 50 °C ≤ 50 °C ≤ 50 °C |
| (Maximum values: depending on operating conditions and sealing materials) | | |
| Heating and cooling rate | | ≤ 30 °C h ⁻¹ |
| Material | - Valve body, gate, sealing ring - Feedthrough | EN AC-42100 (3.2371), EN AW-5083 (3.3547), EN AW-6082 (3.2315) AISI 304 (1.4301) |
| Seal | - Bonnet - Gate, dynamic - Feedthrough - Actuator | FKM (Viton®) FKM (Viton®) FKM (Viton®) FKM (Viton®) / NBR |
| Mounting position | | any |
| Volume of pneumatic actuator | | 1.4 l / 0.0496 ft ³ |
| Volume of 3th position pneumatic actuator | | 0.7 l / 0.0248 ft ³ |
| Compressed air min. – max. overpressure | | 5 – 7 bar / 73 – 102 psi |
| Compressed air connection | | G 1/8" |
| Actuation time | - Closing - Opening | 15 s 15 s |

| | | |
|-----------------|--------------------------|-----------------|
| Created by: ZES | Release date: 15.11.2019 | 1/2 |
| Modified by: | Release date: | 835748EB |



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Pendulum valve
Series 162, DN 500 (ID 20")
Ordering No. 16254-PA48

Weight

115 kg / 254 lbs

Behavior in case of compressed air pressure drop

- Valve closed
- Valve open

valve remains closed
valve closes

Behavior in case of power failure

- Valve closed
- Valve open

valve remains closed
valve closes

Electrical connections

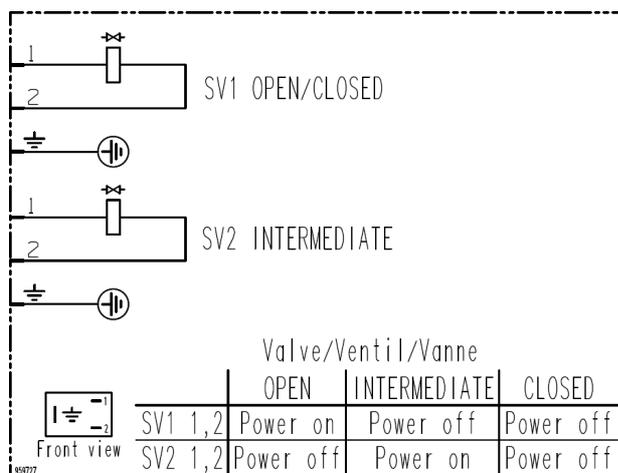
Solenoid valve

Type

4/2-way

Voltage

Defined by order



Wiring diagram

Position indicator

Type

Micro-/ Pressure switch

Voltage

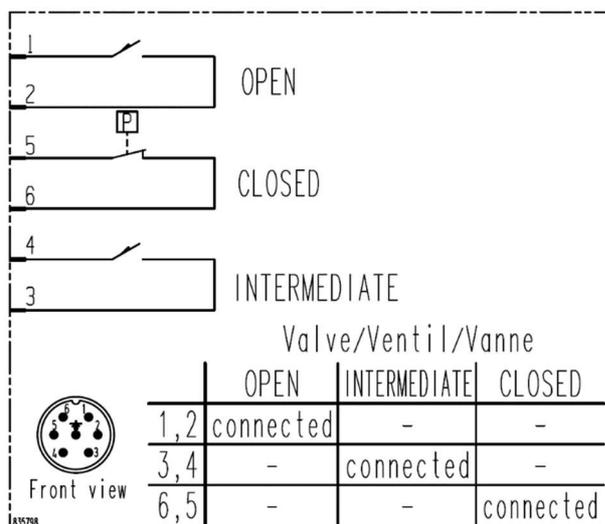
24 V DC

Current max.

≤ 50 mA

Electrical connection

Plug male, 7pin



Wiring diagram

Created by: ZES

Release date: 15.11.2019

2/2

Modified by:

Release date:

835748EB