

Product data sheet

Large pendulum valve, Series 168, DN 500 (ID 20") Ordering No. 16854-PA48

Description

ISO-F 500 Flange

Actuator 3-position pneumatic, double acting

> with solenoid valve - with position indicator

Rotary feedthrough Feedthrough

Technical data

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

 $1 \cdot 10^{-7}$ mbar to 1.2 bar (abs) Pressure range

Differential pressure on the gate ≤ 1.2 bar Differential pressure at opening ≤ 30 mbar Conductance (molecular flow) 90 000 Is⁻¹ Minimum conductance

(molecular flow) 3rd position

Cycles until first service 100 000

≤ 120 °C Temperature Valve body ≤ 80 °C (Maximum values: depending Actuator Solenoid valve ≤ 50 °C on operating conditions and sealing materials) Position indicator ≤ 80 °C

≤ 30 °C h⁻¹ Heating and cooling rate

EN AC-42100 (3.2371), EN AW-6082 (3.2315) Material Valve body

- Mechanics EN AC-42100 (3.2371) - Gate EN AW-6082 (3.2315)

200 Is⁻¹

EN AW-6082 (3.2315), AISI 303 (1.4305) Feedthrough

Seal Bonnet FKM (Viton®) - Gate FKM (Viton®)

FKM (Viton®), NBR Actuator FKM (Viton®) - Feedthrough

Mounting position any

3.3 I / 0.116 ft³ Volume of pneumatic actuator

Compressed air 5 - 7 bar / 73 - 102 psi

min. - max. overpressure

Compressed air connection One-touch-fitting 6mm

Created by: MAEM	Release date: 2014-07-28	1 of 2
Modified by:	Release date:	250816EA



Product data sheet

Large pendulum valve, Series 168, DN 500 (ID 20") Ordering No. 16854-PA48

Actuation time - closing 14 s - opening 14 s

Weight 115 kg / 254 lbs

Behavior in case of compressed

air pressure drop

- Valve closed Valve open

valve remains closed

undefined - During actuation undefined

- Valve closed valve remains closed Behavior in case of power failure

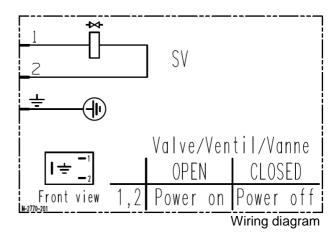
Valve open valve closes During actuation valve closes

Electrical connections

Solenoid valve

4/2 way Type

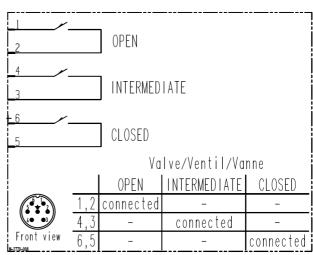
Voltage Defined by order



Position indicator

Type Micro switch Voltage \leq 50 V AC / DC

Current max. ≤ 3 A



Wiring diagram

Created by: MAEM	Release date: 2014-07-28	2 of 2
Modified by:	Release date:	250816EA