

Product data sheet

Large pendulum valve, Series 168, DN 500 (ID 20'') Ordering No. 16854-JA44

Description

Flange		JIS 500
Actuator		Pneumatic, double acting – 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		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		90 000 ls ⁻¹
Cycles until first service		100 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve body Actuator Solenoid valve Position indicator 	≤ 120 °C ≤ 80 °C ≤ 50 °C ≤ 80 °C
Heating and cooling rate		\leq 30 °C h ⁻¹
Material	 Valve body Mechanics Gate Feedthrough 	EN AC-42100 (3.2371), EN AW-6082 (3.2315) EN AC-42100 (3.2371) EN AW-6082 (3.2315) EN AW-6082 (3.2315), AISI 303 (1.4305)
Seal	– Bonnet – Gate – Actuator – Feedthrough	FKM (Viton [®]) FKM (Viton [®]) FKM (Viton [®]), NBR FKM (Viton [®])
Mounting position		any
Volume of pneumatic actuator		3.3 / 0.116 ft ³
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		G1/8" (ISO / NPT for USA)
Actuation time	– closing – opening	14 s 14 s

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Weight

Behavior in case of compressed air pressure drop

Behavior in case of power failure

- Valve closed - Valve open - During actuation - Valve closed - Valve open

 - During actuation

115 kg / 254 lbs

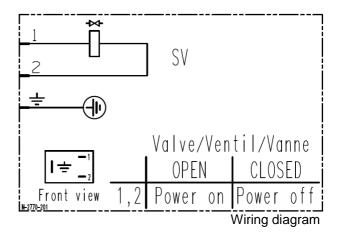
valve remains closed undefined undefined

valve remains closed valve closes valve closes

Electrical connections

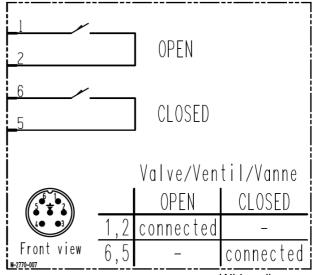
Solenoid valve

Type Voltage 4/2 way Defined by order



Position indicator

Туре	Micro switch
Voltage	≤ 50 V AC / DC
Current max.	\leq 3 A



Wiring diagram

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