Product data sheet

Large pendulum valve, Series 168, DN 400 (ID 16'')
Ordering No. 16852-JA44

Description

Flange	JIS 400
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		$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		50 000 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		≤ 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		2.0 l / 0.071 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	12 s
	– opening	12 s
Weight		85 kg / 187 lbs
Behavior in case of compressed air pressure drop	– Valve closed	valve remains closed
	– Valve open	undefined
	– During actuation	undefined
Behavior in case of power failure	– Valve closed	valve remains closed
	– Valve open	valve closes
	– During actuation	valve closes

Electrical connections

Solenoid valve

Type	4/2 way
Voltage	Defined by order

Wiring diagram
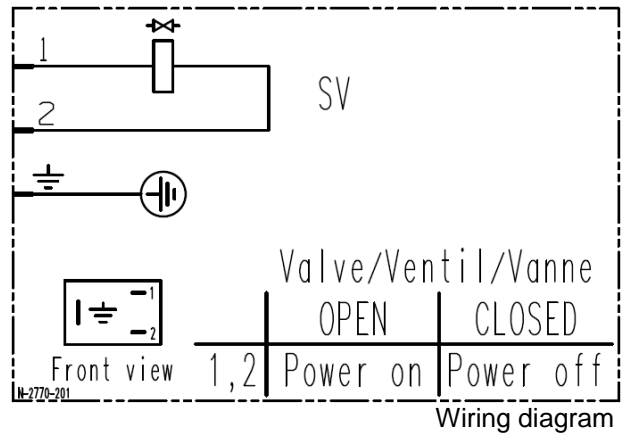
Position indicator

Type	Micro switch
Voltage	$\leq$ 50 V AC / DC
Current max.	$\leq$ 3 A

Wiring diagram