VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Pendulum valve, Series 162, DN 550 (ID 22'')
Ordering No. 16255-JA41

Description

Flange	JIS 550
Actuator	– pneumatic, single acting, with closing spring (NC) – with solenoid valve – with position indicator
Feedthrough	Rotary feedthrough

Technical data

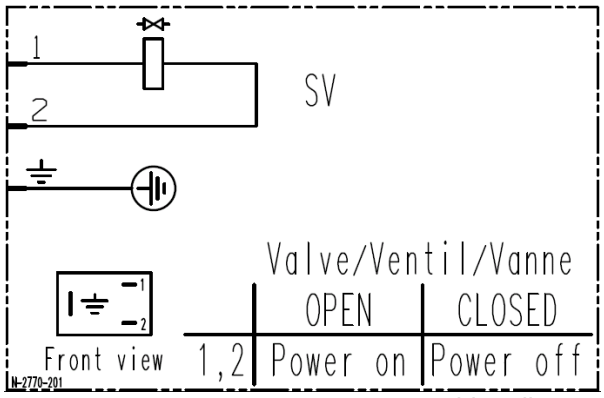
Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 5 mbar
Conductance (molecular flow)		135 000 ls^{-1}
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature	– Valve body	≤ 120 °C
(Maximum values: depending	– Actuator	≤ 80 °C
on operating conditions and	– Solenoid valve	≤ 50 °C
sealing materials)	– Position indicator	≤ 80 °C
Heating and cooling rate		≤ 30 °C h^{-1}
Material	– Valve body	EN AC-42100 (3.2371)
	– Gate	EN AW-6082 (3.2315)
	– Sealing ring	EN AW-6082 (3.2315)
	– Feedthrough	AISI 304 (1.4301)
Seal	– Bonnet	FKM (Viton®)
	– Gate, dynamic	FKM (Viton®)
	– Feedthrough	FKM (Viton®)
Mounting position		horizontal and vertical
Volume of pneumatic actuator		1.5 l / 0.053 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	14 s
	– opening	14 s
Weight		119 kg / 262 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

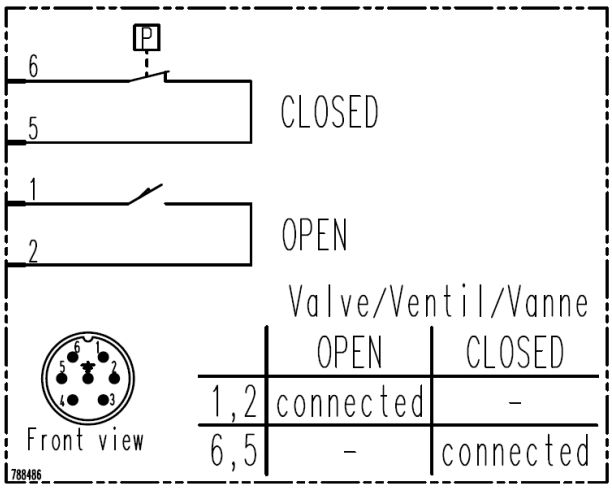
Type	4/2 way
Voltage	Defined by order



Wiring diagram

Position indicator

Type	Micro switch
Voltage	12 - 24 V AC/DC
Current max.	5 – 20mA



Wiring diagram