VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet
Pendulum Isolation Valve, Series 162, DN 500 (ID 20'')
Ordering No. 16254-JA21

Description

Flange	JIS 500
Actuator	pneumatic, single acting with closing spring – with position indicator
Feedthrough	Rotary feedthrough

Technical data

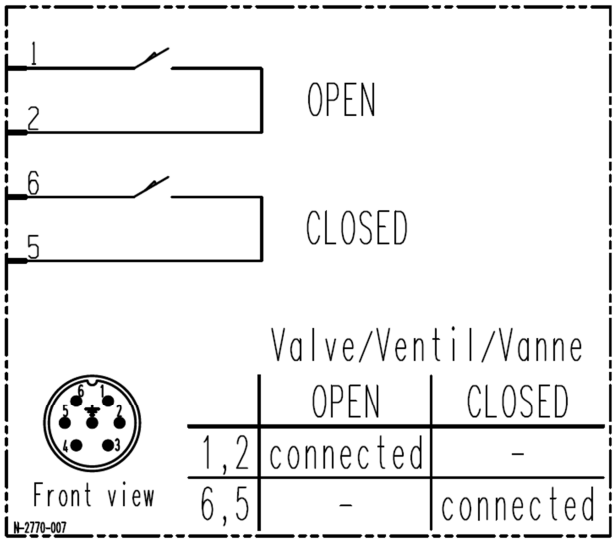
Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1} $< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		$1 \cdot 10^{-7}$ mbar to 1.2 bar (abs)
Differential pressure on the gate – in closing direction – in opening direction		 ≤ 1.2 bar ≤ 1.2 bar
Differential pressure at opening – in closing direction – in opening direction		 ≤ 5 mbar ≤ 5 mbar
Conductance (molecular flow)		100 000 ls^{-1}
Cycles until first service		200 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve Body – Actuator – Position indicator	≤ 120 °C ≤ 50 °C ≤ 50 °C
Heating and cooling rate		≤ 30 °C h^{-1}
Material	– Valve body, gate Sealing ring, feedthough	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 / 0.047 ft^3
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		M5 (10-32 UNF suitable)
Required air flow		> 60 slm
Actuation time	– closing – opening	10 s 10 s
Weight		110 kg / 243 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

Position indicator

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



Wiring diagram