VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Pendulum valve, Series 162, DN 320 (ID 12'')
Ordering No. 16250-JA21

Description

Flange	JIS 320
Actuator	– pneumatic, single acting, with closing spring (NC) – with position indicator
Feedthrough	Rotary feedthrough

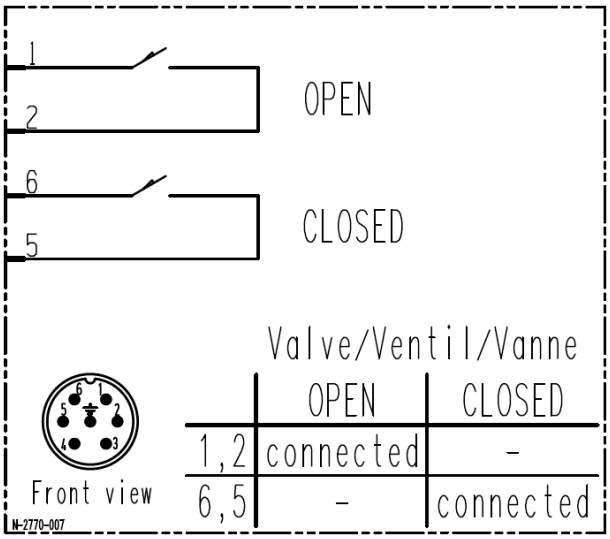
Technical data

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)		32 600 ls^{-1}
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Position indicator	≤ 120 °C ≤ 80 °C ≤ 80 °C
Heating and cooling rate		≤ 30 °C h^{-1}
Material	– Valve body, gate, sealing ring	EN AW-5083 (3.3547), EN AW-6082 (3.2315)
	– Feedthrough	AISI 303 (1.4305), AISI 304 (1.4301)
Seal	– Bonnet	FKM (Viton®)
	– Gate, dynamic	FKM (Viton®)
	– Feedthrough	FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		0.55 l / 0.020 ft^3
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		M5 (10-32 UNF suitable)
Required air flow		> 50 slm

Actuation time	– closing – opening	5 s 5 s
Weight		56 kg / 123.5 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	depending on customer installation depending on customer installation

Position indicator

Type	Micro switch
Voltage	≤ 50 V AC / DC
Current max.	≤ 1.2 A



Wiring diagram