Description

Flange		ISO-F 320
Actuator		Pneumatic, double acting
		– with solenoid valve
		– with position indicator
Feedthrough		Shaft 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		$1 \cdot 10^{-7}$ mbar to 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		33 000 ls^{-1}
Cycles until first service		100 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body	≤ 120 °C
	– Actuator	≤ 80 °C
	– Solenoid valve	≤ 50 °C
	– Position indicator	≤ 80 °C
Heating and cooling rate		30 °C h^{-1}
Material	– Valve body	EN AC-42100 (3.2371)
	– Mechanism	EN AW-6082 (3.2315)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), O-ring
	– Actuator	FKM (Viton®), NBR (BUNA N®)
Mounting position		any
Volume of pneumatic actuator		2.8 l / 0.099 ft^3
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G ¼" (¼" NPT for USA)
Actuation time	– closing	7.0 s
	– opening	7.0 s
Weight		40 kg / 88 lbs

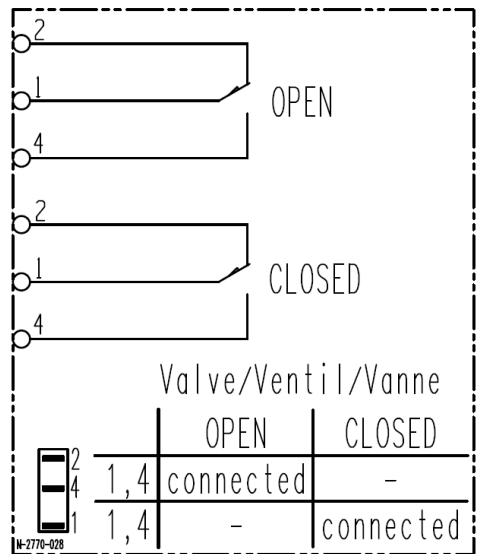| Behavior in case of compressed air pressure drop | – Valve closed | – valve remains closed |
	– Valve open	– undefined
Behavior in case of power failure	– Valve closed	– valve remains closed
	– Valve open	– valve closes

Electrical connections

Solenoid valve

| Type | 5/2 way |
| Voltage | Defined by order |
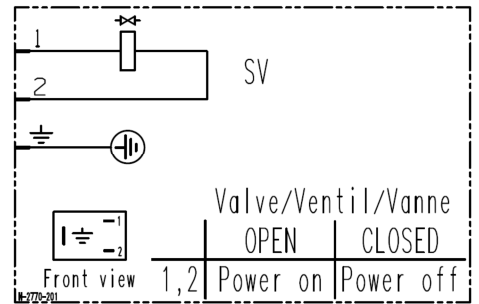
Wiring diagram

Position indicator

Type	Micro Switch
Voltage	≤ 250 V AC	≤ 50 V DC
Current max.	≤ 2.0 A	≤ 1.2 A

Wiring diagram