Description

Flange	ISO-KF 50
Actuator	Pneumatic, single acting with closing spring – with solenoid valve – without position indicator
Feedthrough	Bellows

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 5 bar (abs)
Differential pressure on the plate	– In opening direction	≤ 2 bar
	– In closing direction	≤ 5 bar
Differential pressure at opening		≤ 1 bar
Conductance (molecular flow)		80 ls^{-1}
Closing time		≤ 0.65 sec.
Cycles until first service (Tmax 80 °C, under clean conditions)		3 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body	≤ 150 °C
	– Actuator	≤ 120 °C
	– Solenoid valve	≤ 80 °C
Material	– Valve body	Aluminum (EN AW-6082)
	– Actuator	Aluminum
	– Plate	AISI 316L (1.4404)
	– Bellows	AISI 316L (1.4404, 1.4435) AISI 316 Ti (1.4571)
Seal	– Bonnet O-ring	FKM (Viton®)
	– Plate O-ring	FKM (Viton®)
	– Actuator O-ring	FKM (Viton®)
Weight		2.5kg / 5.51 lbs
Mounting position		any
Volume of pneumatic actuator		0.047 l / 0.0017 ft^3
Compressed air min. – max. overpressure		4 – 8 bar / 58 – 116 psi
Compressed air connection		M5 female (10-32 UNF suitable)

Behavior in case of compressed air pressure drop	– Valve closed	valve remains closed and leaktight
	– Valve opened	valve closes leaktight
	– During actuation	valve closes leaktight

Behavior in case of power failure	– Valve closed	valve remains closed and leaktight
	– Valve opened	valve closes leaktight
	– During actuation	valve closes leaktight

Electrical connections

Solenoid valve

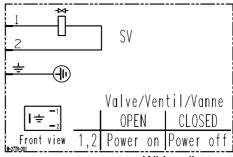|	
Type	3/2-way
Voltage	See solenoid
Power	See solenoid
Connector	Rectangle plug, Type B (DIN standard)
Cable	Ø6 – 8 mm

Wiring diagram