Description

Flange	ISO-F 200
Actuator	pneumatic, double acting, with 3-positon actuator – with solenoid valve – with position indicator
Feedthrough	Bellows

Technical data

Leak rate	– Valve body	$< 5 \cdot 10^{-10}$ mbar ls^{-1}
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		$1 \cdot 10^{-10}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		$\leq$ 1.6 bar
Differential pressure at opening		$\leq$ 30 mbar
Conductance (molecular flow)		12 200 ls^{-1}
Cycles until first service		50 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve Body – Actuator – Solenoid valve – Position indicator	$\leq$ 250 °C open / $\leq$ 200 °C closed (bake-out max. 24h) $\leq$ 200 °C $\leq$ 50 °C $\leq$ 80 °C
Heating and cooling rate		50 °C h^{-1}
Material (main components)	– Valve Body – Mechanism – Bellows	AISI 304 (1.4301) AISI 316L (1.4404), AISI 304 (1.4301) AISI 316L (1.4404, 1.4435)
Seal	– Bonnet – Gate – Actuator	metal FKM (Viton®), vulcanized FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.25 l / 0.0087 ft^3
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G⅛'' (⅛'' NPT for USA)
Actuation time	– closing – opening	2 s 2 s
Weight		36 kg / 79.5 lbs
Behavior in case of compressed air pressure drop	– Valve closed – Valve open – Middle position	valve remains closed undefined undefined
Behavior in case of power failure	– Valve closed – Valve open – Middle position	valve remains closed valve closes valve closes

Electrical connections

Solenoid valve

Type	4/2 way
Voltage	Defined by order

		Valve/Ventil/Vanne		
		OPEN	INTERMEDIATE	CLOSED
SV1 1,2		Power on	Power on	Power off
SV2 1,2		Power on	Power off	Power on

Wiring diagram
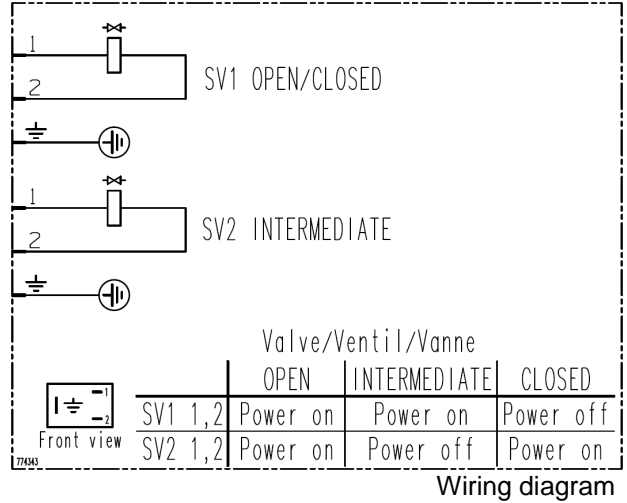
Position indicator

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

	Valve/Ventil/Vanne		
	OPEN	INTERMEDIATE	CLOSED
1,2	connected	–	–
4,3	–	connected	–
6,5	–	–	connected

Wiring diagram