



Single Pinch Valve is a compact bistable low consumption pinch valve with the following characteristics:

- Intended use: to occlude rubber tubing by pinching effect
- Bistable state (no consumption in open and closed position)
- High Occlusion force provided by springs (high acceptance on tubing variability)
- Opening of the pincher is actuated by a low consumption DC gearmotor.
- Contactless duplicated Hall effect sensors to recognize the closed position of the pincher and the state of the opening actuator
- Ball bearing based opening actuator (high reliability and low friction)

Technical Features

<i>Part Number</i>	0193700B (12Vdc)
<i>Motor supply voltage</i>	12÷18 [Vdc] (also available 24÷28 Vdc)
<i>Maximum allowable tubing diameter</i>	7 [mm], 0,2756 [in] (to verify the occlusion for any case)
<i>Max current consumption (during phase exchange)</i>	400 [mA] peak, 250 [mA] typical
<i>Overall dimensions</i>	32,5x35x127 [mm], 1,28x1,378x5 [in]
<i>Wight (with output cable)</i>	190 [g], 0,4189 [lb]
<i>Commutation time (phase to phase)</i>	500 ms (@18Vcc)
<i>Closed pincher sensor</i>	Honeywell SS443A Hall (unipolar switch)
<i>Actuator state sensor</i>	Honeywell SS461A Hall (latch)
<i>Sensors supply voltage</i>	3.8÷30 [Vcc]
<i>Sensors output</i>	Open Collector
<i>Output connector</i>	Molex 5264 – 6 poles (Female)
<i>Cable length</i>	300 [mm], 12 [in]
<i>Connector pinout</i>	(1) Motor supply+ (2) Motor supply – (3) +3.8÷30 V sensors (4) Sensors Gnd (5) Actuator state position (6) Closed pincher sensor
<i>Occlusion force</i>	2.5 mm thick 35N min (40N typ)
<i>Life expectance</i>	12x106 cycles (continuos)