

Industrial Syringe Pump

MSP1-D1, MSP1-E1



- Mainly used in OEM equipment and instruments, especially in automation systems.
- Rotating valve, panel installation, RS485 or RS232 communication control.

Specifications	Model	MSP1-D1	MSP1-E1
Accuracy		$\leq 1\%$ (rated stroke)	
Precision		Repeatability $\leq 0.5\%$ (rated stroke)	
Rated stroke (steps)		30mm(1000 steps)	
Linear speed		0.5mm/s-15mm/s	
Time for rated stroke		2s-60s	
Control resolution		0.03mm(1 step)	
Transmission mechanism		Rack and pinion drive	
Plunger drive force (max.)		$\geq 68\text{N}$	
Secondary plunger drive force (max.)		$\geq 34\text{N}$	-
Syringe		500 μL , 1mL, 2.5mL, 5mL	
Valve		3 port 120°	3-way solenoid valve
Valve plug turn time		$\leq 280\text{ms}$ between adjacent ports	$\leq 100\text{ms}$
Wetted material		Borosilicate glass, PTFE, PCTFE	Borosilicate glass, PTFE, PEEK
Max. pressure		0.68Mpa	0.1Mpa
Tubing fitting		1/4"-28 thread	
Syringe fitting		1/4"-28 thread	
Signal input		1 input signals (TTL signal, drive current > 16mA)	
Signal output		1 output signals (OC gate signal) to indicate the working status	
Communication interface		RS485 or RS232	
Bit rate		9600bps or 38400bps	
Pump ID setting		Set the pump ID through BCD dial switch (0 to E corresponding to pump address 1-15)	
Pump parameters setting		Set the parameters through DIP switch	
Dimension (L×W×H)		100×65×127(mm)	
Power supply		DC 24V/1.5A	
Operating temperature		15 to 40°C	
Relative humidity		<80%	
Weight		0.9kg	