

AccuPump and BasePump



FEATURES

- > Flexible and Economical
- > Accommodates 50 μ L to 10 mL syringes
- > With or without valve (BasePump)
- > With or without electronics (BasePump)

CUSTOMER REQUIREMENTS

- > Driver Recommendation (min)
 - AccuPump AccuPump provides the driver(s)
 - BasePump For Stepper Motor: BiPolar Chopper at 24 VDC, 350 mA per phase or equivalent

CONFIGURED OPTIONS

- > AccuPump (with Electronics)
- > BasePump with or without Valve
- > Syringe Sizes: 50 μ L, 250 μ L, 500 μ L, 2 mL, 5 mL, 10 mL

BASE MODEL

AccuPump

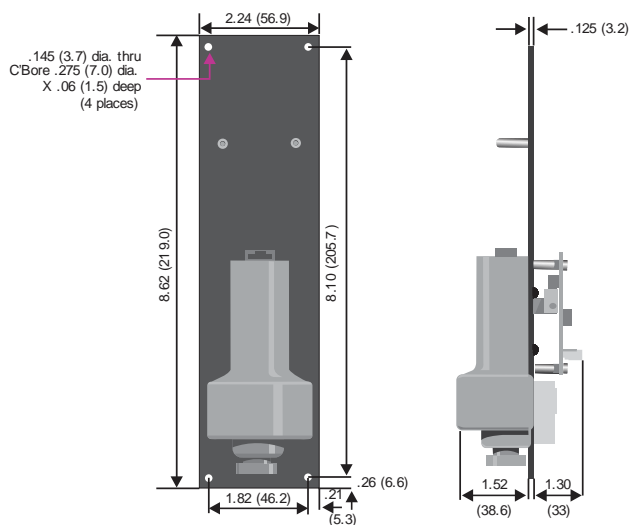
BasePump



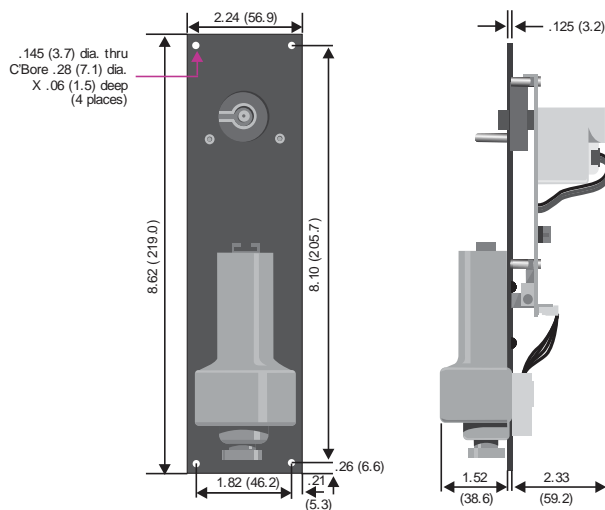
SPECIFICATIONS		
	BasePump Cat# 0802 Cat# 0884 (for use with Valve)	AccuPump Cat# 0886 (for use with Valve)
Syringe Drive Motor / Leadscrew Data Travel / Full Step Resistance / Phase Inductance / Phase Rated Current Rated Voltage	Stepper Motor: 0.000656 in. (7.5° step angle) 9.1 ohm (each winding) 16.7 mH (each winding) 550 mA 5V	Same as BasePump. However, the AccuPump provides all appropriate drivers and electronics for the motors and sensors contained on the pump
Valve Motor Data Voltage Current (at nominal voltage)	DC Gear Motor: 12 VDC Nominal (7-15 VDC) <= 0.90 mA (no load), 290 mA (max. load)	
Opto Sensors	H22A1 or equivalent	
Syringe Speed	User defined	Selectable 10-500 steps / second
Power Requirements Stepper Motor (for syringe drive) DC Gear Motor (for valve drive) Logic (see also 24 V Regulator, Cat# 0897)	User defined	+ 24 VDC ± 1.0 V at 600 mA max. + 15 VDC ± 1.0 V at 750 mA max. + 5 VDC ± .02 V at 65 mA max.
Power Dissipation	User defined	15 watts max. per module
Optional Accessory PCBAs 24 V Regulator Logic	N/A N/A	Cat# 0897 Cat# 0898
Weight	17 oz. maximum	
Step Resolution Short Stroke Long Stroke	1000 steps (for 50 µL, 250 µL and 500 µL syringes) 2000 steps (for 2 mL, 5 mL and 10 mL syringes)	
Fluid Contact Materials (syringe materials)	Borosilicate Glass, PTFE, Polypropylene, Polycarbonate, HDPE	

FUNCTIONAL PARAMETERS	
Performance (at full volume) Accuracy and Precision within	<= 1% at 100 steps of travel (mechanical only)

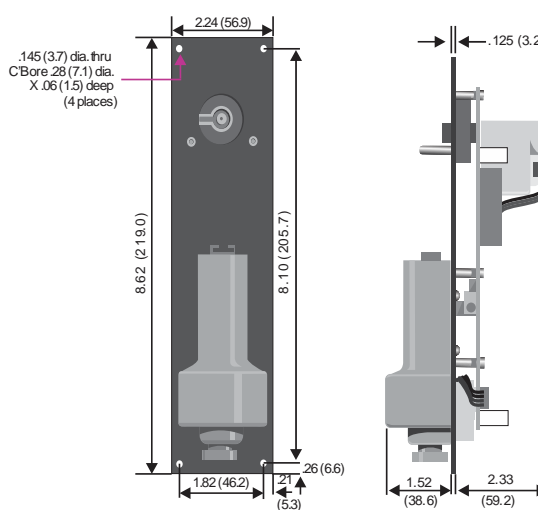
BasePump, Cat# 0802



BasePump, Cat# 0884 for use with Valve



AccuPump Cat# 0886 for use with Valve



ECONOMICAL PUMP SOLOUTIONS FOR OEMS WORLDWIDE

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