

The Liquid Dispensing Specialists

## P SERIES SEALLESS CERAMIC SERVO MOTOR CONTROLLED PRECISION METERING PUMPS



The **NEW HIBAR P SERIES SEALLESS PRECISION METERING PUMPS** are specifically designed to meet the demanding requirements of the Pharmaceutical Industry. The pumps feature close fitting sealless ceramic pistons and cylinders engineered for Pharmaceutical liquid dispensing applications.

Our unique rotary piston design with precision fit cylinder requires no dynamic seals, making the pump easy to clean and maintain. State-of-the-art servo motor drives provide full programmability of dispense volume, dispense speed profiles and automatic cleaning cycles.

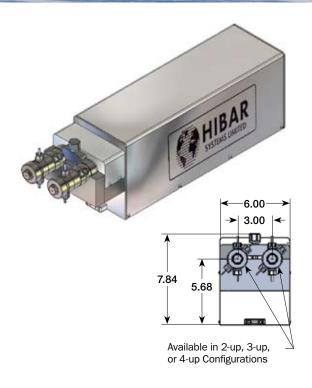
## **P SERIES PRECISION METERING PUMPS FEATURES**

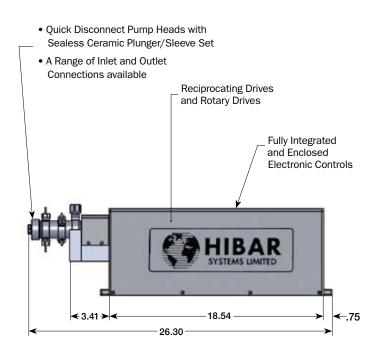
- Positive Displacement Piston Pump better than ±0.5% volumetric accuracy.
- No dynamic seals Low maintenance.
- Dispense volumes from 0 to 20 ml.
- Standard 316L Stainless Steel construction.
- Modular design makes it easy to integrate with automated filling equipment.
- Wear resistant ceramic rotary piston valve handles low and high viscosity fluids with up to 100,000 cps.
- No tools required for easy disassembly, cleaning and maintainance.

- Programmable clean-in-place cycle.
- 2 Axis servo motor drives with built-in motor motion controls.
- Built-in I/O ports for easy integration with existing automated filling systems.
- Simple operation via menu driven controls.
- Pneumatic models are also available. Consult Hibar for details.
- Models are also available in various multiple configurations and drive options.
   Consult Hibar for details.

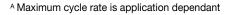


## **PRECISION METERING PUMPS SPECIFICATIONS AND APPLICATIONS**





Model	Plunger Diameter		Stroke		Maximum Dispensing Volume	Cycle Speed	Weight lbs
	inch	mm	inch	(mm)	(cc)	(cpm)	lbs (kg)
1SRP-3	3/16	(4.8)	3/4	(19.05)	0.339	0-120 <sup>A</sup>	50 (22.7)
1SRP-7	7/16	(11.1)			1.847		
1SRP-10	5/8	(15.9)			3.770		
1SRP-12	3/4	(19.1)	1	(25.40)	7.240		
1SRP-20	1-1/4	(31.8)			20.110		





**Custom Configured 40 Pump System** 

APPLICATIONS						
Pharmaceutical	Cosmetics		Food		General	
<ul><li> Medicine</li><li> Culture Media</li><li> Biologicals</li><li> Antibiotics</li><li> Cough Syrup</li></ul>	- Creams - I - Lotions - I - Shampoos - S	Mouthwash Nail Lacquer Moisturizer Skin Cleanser Make-up Remover	<ul><li>Ketchup</li><li>Vinegar</li><li>Honey</li><li>Butter</li><li>Coffee</li></ul>	<ul><li>Cream</li><li>Jelly</li><li>Sauces</li><li>Juices</li><li>Puddings</li></ul>	<ul><li>Acids</li><li>Alkalines</li><li>Reagents</li><li>Inks</li><li>Paints</li></ul>	<ul><li>Glues / Adhesives</li><li>Battery Electrolyte</li><li>Lighter Fluids</li><li>Oils</li><li>Solvents</li></ul>

