Hand Driven Sanitary High Pressure Pump

Sanitary transfer of small sample of fluid with Pressure

Unique Benefits

Always Discount for Public Research

- Low-cost high pressure pump
- **Portable** design deliver the light weight and small dimensions
- Easy Hand driven without compressed gas
- Autoclavable of whole unit
- **Strong:** Ultra-high pressure up to 2,000bar Adjustable 3 Stage: 1st Stage: 500bar; 2nd Stage: 1,200bar; 3rd Stage: 2,000bar

• **CE** compliant

HandPump[™] is a portable hand driven sanitary high pressure pump. It provides up to 30,000 psi high pressure without the compressed gas or electric motor. It can be used for formulation testing of fat emulsion, liposome, nanosuspension, microemulsion, lipid microsphere, nanoemulsions, dairy products, infusion solutions, cell disruption, juice homogeneity, fine chemical engineering, dye and etc. The HandPump[™] provides options of the Y-type Diamond interaction chamber, cavitation nozzle, impact valve or membrane extruder.

Specifications

Catalog No.	HP-2000	HP-1000	HP-800	HP-500	HP-300
Flow rate	20mL/min	30mL/min	50mL/min	100mL/min	100mL/mir
Min. Sample	1mL	2.5mL	2.5mL	4mL	4mL
Max. Pressure	2000bar	1000bar	800bar	500bar	300bar
Multi-Stages	2000bar	1000bar	800bar	500bar	300bar
(Adjustable)	1000bar	600bar	500bar	300bar	200bar
	500bar	300bar	200bar	150bar	100bar
Dimensions	$25 \text{cm} \times 40 \text{cm} \times 20 \text{cm}$				
Weight	15 kg (32 lbs)				
Max. Temp.	80 °C (176 °F)				
Cleaning	Flush to clean; Whole unit autoclavable				



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HandPumpTM Hand Driven High Pressure Pump

Standard Features



HandPump with Chamber



HandPump with Liposome Extruder



Parts	Handpump; Stainless Pressure gauge; Syringe inlet and outlet; 1 extra seal; 1 set tool
Hand Drive	Multi-Stages Handle
Pressure Gauge	35,000 psi G35000 High Pressure Gauge
Inlet type	Luer or 1/2" Triclamp or High Pressure Tubing
Outlet type	Luer or 1/2" Triclamp or High Pressure Tubing
Inlet Reservoir	20ml Syringe
Outlet Reservoir	20ml Syringe
Product material	316L stainless steel, Tungsten Carbide, Viton, Teflon, UHMWPE
Material standard	Pharmaceutical Grade, FDA & GMP approvable
Warranty	1 year against any manufacturing defects

Available Option

	Parts	High Pressure Extruders, Homogenizing valves, Heat Exchanger
	Cooling System	Sanitary Heat Exchanger
	Detector	Pressure gauge, Pressure and Temp. transducer
	Outlet type	Tri-Clamp or Luer
	Inlet Reservoir	10ml, 20ml, 50ml, 100ml, 200ml, 500ml Syringe, Tank or Online
	Outlet Reservoir	10ml, 20ml, 50ml, 100ml, 200ml, 500ml Syringe, Tank or Online
	Cylinder	Titanium High pressure Cylinder (Resistant to strong acid and base)

HandPump with Chamber&Extruder

