

Hand Driven Sanitary High Pressure Pump

Sanitary transfer of small sample of fluid with Pressure

Unique Benefits

- **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

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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/min
Min. Sample	1mL	2.5mL	2.5mL	4mL	4mL
Max. Pressure	2000bar	1000bar	800bar	500bar	300bar
Multi-Stages (Adjustable)	2000bar	1000bar	800bar	500bar	300bar
	1000bar	600bar	500bar	300bar	200bar
	500bar	300bar	200bar	150bar	100bar
Dimensions	25cm×40cm×20cm				
Weight	15 kg (32 lbs)				
Max.Temp.	80°C (176°F)				
Cleaning	Flush to clean; Whole unit autoclavable				



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HandPump™

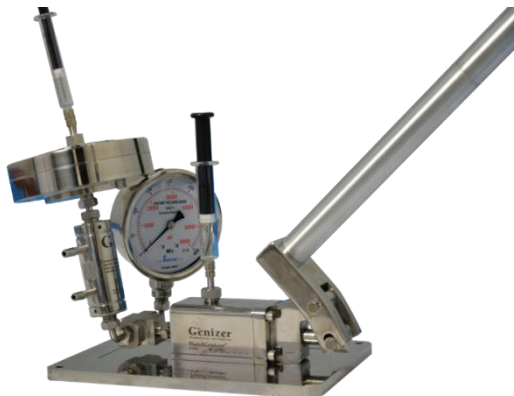
Hand Driven High Pressure Pump



HandPump with Chamber



HandPump with Liposome Extruder



HandPump with Chamber&Extruder

Standard Features

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 Liposome Extruder, 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)