

VINCI TECHNOLOGIES

PUMPS

PRODUCT CATALOG

2024



SYRINGE PUMP SERIES



Bench floor pump



Bench top pump



Hand operated pump

LIST OF INSTRUMENTS

BENCH FLOOR SINGLE SYRINGE PUMP (BFSP SERIES) _____	3
BENCH FLOOR DUAL SYRINGE PUMP (BFDP SERIES) _____	4
BENCH TOP SINGLE SYRINGE PUMP (BTSP SERIES) _____	5
EXTENDED BENCH TOP SINGLE SYRINGE PUMP (BTSP SERIES) _____	6
BENCH TOP DUAL SYRINGE PUMP (BTDP SERIES) _____	7
EXTENDED BENCH TOP DUAL SYRINGE PUMP (BTDP SERIES) _____	8
CONTINUOUS FLOW PUMP (CF SERIES) _____	9
LOW PRESSURE SYRINGE PUMP (PV SERIES) _____	10
HEATED TRIPLE PUMP (HTP SERIES) _____	11
LOW PRESSURE MANUAL PUMP (MP 20-LP) _____	12
HIGH PRESSURE MANUAL PUMP (MP SERIES) _____	13
METERING MANUAL PUMP (MP SERIES) _____	14

The specifications and photos contained in this catalogue can be subject to change without notification.

Copyright© Vinci Technologies. All rights reserved.



VINCI TECHNOLOGIES

Parc de l'Ile, 27B rue du Port, 92022 NANTERRE

Phone: 331 41 37 92 20 Fax: 331 41 37 04 76

e-mail: vincinet@vinci-technologies.com

<http://www.vinci-technologies.com>

BENCH FLOOR SINGLE SYRINGE PUMP (BFSP SERIES)

The versatile BFSP series accurately delivers specified pressure, flow rate and volume at both ambient and reservoir conditions. It can operate at either constant pressure or constant flow rate. In the former mode, a pre-defined specific volume can accurately be transferred. The pump is equipped with an accurate pressure sensor, two hand-operated valves for tank feeding and outlet delivery, a control panel and a storage tank. The assembly is mounted on a chassis supported by four heavy duty casters. Optionally, a computer data acquisition and supervision system can be provided. Furthermore, a variable temperature heating mantle can be supplied to heat the fluid up to 150°C. The Vinci BFSP series volumetric capacity is customizable, and while the standard material for wetted parts is a high grade stainless steel, hastelloy can be requested for corrosive fluid applications.



FEATURES

Model	Volume (ml)	Pressure (psi)	Max flow rate (ml/min)	Mini Flow rate (ml/min)
BFSP 500-15	500	15,000	40	0.0001
BFSP 500-25	500	25,000	50	0.0001
BFSP 1000-15	1000	15,000	80	0.0001

BENEFITS

- Compact
- Extreme long life
- Wide range of flow rate at full load
- Touch screen panel



VINCI TECHNOLOGIES

Parc de l'Ile, 27B rue du Port, 92022 NANTERRE

Phone: 331 41 37 92 20 Fax: 331 41 37 04 76

e-mail: vincinet@vinci-technologies.com

<http://www.vinci-technologies.com>

BENCH FLOOR DUAL SYRINGE PUMP (BFDP SERIES)

The BFDP series accurately delivers specified pressure, flow rate and volume at both ambient and reservoir conditions. It can operate at either constant pressure or constant flow rate. In the former mode, a pre-defined specific volume can accurately be transferred. The pump is delivered with two accurate pressure sensors, four hand valves for tank feeding and outlet delivery, a control panel and a reservoir. The assembly is mounted on a chassis supported by four heavy duty casters. Optionally, a computer data acquisition and supervision system can be provided. Furthermore, a variable temperature heating mantle can be supplied to heat the fluid up to 150°C. The Vinci BFDP series volumetric capacity is customizable, and while the standard material for wetted parts is a high grade stainless steel, hastelloy can be requested for corrosive fluid applications. Two optional automatic three-way air powered valves for tank feeding and outlet delivery can be provided for unlimited continuous flow.



FEATURES

Model	Volume (ml)	Pressure (psi)	Max flow rate (ml/min)	Mini Flow rate (ml/min)
BFDP 500-15	500	15,000	40	0.0001
BFDP 500-25	500	25,000	50	0.0001
BFDP 1000-15	1000	15,000	80	0.0001

BENEFITS

- Compact
- Extreme long life
- Wide range of flow rate at full load
- Touch screen panel



VINCI TECHNOLOGIES

Parc de l'Île, 27B rue du Port, 92022 NANTERRE

Phone: 331 41 37 92 20 Fax: 331 41 37 04 76

e-mail: vincinet@vinci-technologies.com

<http://www.vinci-technologies.com>

BENCH TOP SINGLE SYRINGE PUMP (BTSP SERIES)

The versatile BTSP series are designed for applications requiring accurate pulseless flow and pressure control of both inorganic (brine, solvent...) and organic fluids (hydrocarbons, microbial solutions...). These pumps deliver specified pressure, flow rate and volume at both ambient and reservoir conditions, and can operate at either constant pressure or constant flow rate. In the former mode, a pre-defined specific volume can accurately be transferred. Pressurization is obtained via a motor-driven piston. The pump is equipped with an accurate pressure sensor, two hand-operated valves for tank feeding and outlet delivery, a data acquisition and supervision software and a storage tank. A temperature sensor can also be integrated upon request. Optionally, a variable temperature heating mantle can be supplied to heat the fluid up to 150°C. The BTSP series volumetric capacity is customizable, and while the standard material for wetted parts is a high grade stainless steel, hastelloy can be requested for corrosive fluid applications. If required, pump cylinders can be equipped with a magnetically driven stirrer to provide an in-situ, efficient, thorough fluid mixing at any operating pressure and temperature. They can also be equipped with a proprietary packing that assures proper sealing of pressurized gas samples in high temperature applications up to 150°C (300 F).



FEATURES

Model	Volume (ml)	Pressure (psi)	Max flow rate (ml/min)	Mini Flow rate (ml/min)
BTSP 20-40	20	40,000	7.5	0.0001
BTSP 50-30	50	30,000	20	0.0001
BTSP 100-10	100	10,000	45	0.0001
BTSP 125-20	125	20,000	30	0.0001
BTSP 175-15	175	15,000	30	0.0001
BTSP 250-10	250	10,000	60	0.0001
BTSP 500-5	500	5,000	130	0.0001
BTSP 1000	1000	1,875	250	0.0001



VINCI TECHNOLOGIES

Parc de l'Île, 27B rue du Port, 92022 NANTERRE

Phone: 331 41 37 92 20 Fax: 331 41 37 04 76

e-mail: vincinet@vinci-technologies.com

<http://www.vinci-technologies.com>

EXTENDED BENCH TOP SINGLE SYRINGE PUMP (BTSP SERIES)

The extended series of BTSP-series benchtop single syringe pumps are designed for applications requiring larger volumes, flow rates and pressures than those of the BTSP series. The functionalities and software remain the same.



FEATURES

Model	Volume (ml)	Pressure (psi)	Max flow rate (ml/min)	Mini Flow rate (ml/min)
BTSP 150-30	150	30,000	20	0.0001
BTSP 250-20	250	20,000	35	0.0001
BTSP 300-15	300	15,000	40	0.0001
BTSP 500-10	500	10,000	70	0.0001
BTSP 1000-5	1000	5,000	130	0.0001

BENCH TOP DUAL SYRINGE PUMP (BTDP SERIES)

The versatile BTDP series are designed for applications requiring accurate pulseless flow and pressure control of both inorganic (brine, solvent...) and organic fluids (hydrocarbons, microbial solutions...). These pumps deliver specified pressure, flow rate and volume at both ambient and reservoir conditions, and can operate at either constant pressure or constant flow rate. In the former mode, a pre-defined specific volume can accurately be transferred. Pressurization is obtained via a motor-driven piston. The pump is delivered with two accurate pressure sensors, four hand valves for tank feeding and outlet delivery, a data acquisition and supervision software and a reservoir. Optionally, a variable temperature heating mantle can be supplied to heat the fluid up to 150°C. The BTDP series volumetric capacity is customizable, and while the standard material for wetted parts is a high grade stainless steel, hastelloy can be requested for corrosive fluid applications. Two optional automatic three-way air powered valves for tank feeding and outlet delivery can be provided for unlimited continuous flow over a wide range of pressures and temperatures, achieved by a synchronous operation of the two cylinders. As one cylinder fills from the tank and pre-pressurizes the liquid, the other pumps fluid into the system, yielding an uninterrupted flow for the entirety of the process. If required, pump cylinders can be equipped with a magnetically driven stirrer to provide an in-situ, efficient, thorough fluid mixing at any operating pressure and temperature. They can also be equipped with a proprietary packing that assures proper sealing of pressurized gas samples in high temperature applications up to 150°C (300 F).



FEATURES

Model	Volume (ml)	Pressure (psi)	Max flow rate (ml/min)	Mini Flow rate (ml/min)
BTDP 50-30	50	30,000	7.5	0.0001
BTDP 100-10	100	10,000	20	0.0001
BTDP 125-20	125	20,000	45	0.0001
BTDP 175-15	175	15,000	30	0.0001
BTDP 250-10	250	10,000	30	0.0001
BTDP 500-5	500	5,000	60	0.0001
BTDP 1000	1000	1,875	130	0.0001



VINCI TECHNOLOGIES

Parc de l'Île, 27B rue du Port, 92022 NANTERRE

Phone: 331 41 37 92 20 Fax: 331 41 37 04 76

e-mail: vincinet@vinci-technologies.com

<http://www.vinci-technologies.com>

EXTENDED BENCH TOP DUAL SYRINGE PUMP (BTDP SERIES)

The extended series of BTDP-series benchtop single syringe pumps are designed for applications requiring larger volumes, flow rates and pressures than those of the BTDP series. The functionalities and software remain the same.



FEATURES

Model	Volume (ml)	Pressure (psi)	Max flow rate (ml/min)	Mini Flow rate (ml/min)
BTDP 150-30	150	30,000	20	0.0001
BTDP 250-20	250	20,000	35	0.0001
BTDP 300-15	300	15,000	40	0.0001
BTDP 500-10	500	10,000	70	0.0001
BTDP 1000-5	1000	5,000	130	0.0001

CONTINUOUS FLOW PUMP (CF SERIES)

Floxab CF Series pumps deliver unparalleled accuracy and repeatability with the superior pulse-free metering that is critical for so many of today's production and research environments. Based on an advanced design that includes an innovative valve technology and two independently controlled motor-driven pistons, the pump set new standards in continuous, pulse-free operation. The Floxlab Series exemplifies what you should demand from a metering pump.



FEATURES

Model	Pressure (psi)	Volume (ml)	Max flow rate (ml/min)	Mini Flow rate (ml/min)
CF 3	3,000	2 x 40	80	0.0001
CF 6	6,000	2 x 32	55	0.0001
CF 12	12,000	2 x 15	30	0.0001
CF 15	15,000	2 x 12	25	0.0001
CF 20	20,000	2 x 10	15	0.0001
CF 30	30,000	2 x 5	5	0.0001

BENEFITS

- Touch screen panel Unlimited continuous flow
- Pulse-free flow at all rates and pressures
- Deliver or receive fluid
- Control pump based on time, pressure, flow rate, fluid volume or events
- Stainless steel or Hastelloy® wetted parts
- Ambient and high temperatures (up to 160°C)



VINCI TECHNOLOGIES

Parc de l'Île, 27B rue du Port, 92022 NANTERRE

Phone: 331 41 37 92 20 Fax: 331 41 37 04 76

e-mail: vincinet@vinci-technologies.com

<http://www.vinci-technologies.com>

LOW PRESSURE SYRINGE PUMP (PV SERIES)

The PV series is designed for applications requiring accurate volume change and low pressure control of fluids. This pump delivers specified pressure, flow rate and volume at ambient temperature and can operate at either constant pressure or constant flow rate. In the former mode, a pre-defined specific volume can accurately be transferred. Pressurization is obtained via a motor-driven piston. The unit is equipped with an accurate pressure sensor and a remote control software. Two optional hand-operated valves can be provided for tank feeding and outlet delivery. Floxlab Series controllers deliver unparalleled pressure and volume accuracy and repeatability that is critical for so many of today's production and research environments. The supervision software is required to configure, control and operate the unit. The software can be installed on a computer station. It includes several operating modes to make Floxlab pumps the most versatile ever. All pumps can deliver or receive fluid in constant flow rate or constant pressure. Pre-defined volumes of fluid can be pumped or extracted from the cylinder.



FEATURES

Performance specifications	Model PV-200	Model PV-500
Maximum confining pressure :psi	600 psi	225 psi
Pressure accuracy: %FS	0.2%	0.2%
Maximum flow rate: ml/min	0.001 ml/min	0.001 ml/min
Minimum flow rate: ml/min	70 ml/min	150 ml/min
Single stroke volume: ml	200 ml	500 ml
Temperature range:	Ambient	Ambient
Wetted parts	Stainless steel	Stainless steel
Tubing connector	1/4 inch NPT	1/4 inch NPT
Power supply:	110-230 VAC, 50/60 Hz	110-230 VAC, 50/60 Hz

BENEFITS

- Suitable for soil studies
- Easy to set up, use and maintain
- Cost effective
- Extreme pressure and volume accuracy



VINCI TECHNOLOGIES

Parc de l'Ile, 27B rue du Port, 92022 NANTERRE

Phone: 331 41 37 92 20 Fax: 331 41 37 04 76

e-mail: vincinet@vinci-technologies.com

<http://www.vinci-technologies.com>

HEATED TRIPLE PUMP (HTP SERIES)

The HTP pumps are capable of generating continuous, pulse-free flow over a wide range of pressures and operate at ambient or high temperature. The three pistons are synchronized so that an uninterrupted flowrate can be achieved at constant pressure during the entirety of the fluid transfer process. The HTP series is perfectly suited for both steady and unsteady-state experiments in either flow-through or recirculating configurations. Fluid delivery and feeding is achieved via three pump cylinders connected to each other by three 3-way air-powered valves. In multiphase experiments, one HTP pump is required for each fluid.



FEATURES

Performance specifications	Model HTP 700	Model HTP 1000
Maximum confining pressure :psi	10,000 psi	15,000 psi
Maximum pore pressure :psi	10,000 psi	15,000 psi
Pressure accuracy: %FS	0.1%	0.1%
Maximum flow rate: ml/min	50 ml/min	30 ml/min
Minimum flow rate: ml/min	0.005 ml/min	0.005 ml/min
Single stroke volume: ml	100 ml	100 ml
Temperature range: °C	Up to 150°C	Up to 150°C
Wetted parts	SS	SS
Tubing connector	1/8 inch	1/8 inch
Power supply:	230 VAC, 50 Hz	230 VAC, 50 Hz
Air required: psi	100 psi	100 psi

BENEFITS

Ideal for 2 or 3 phases steady state permeability test where constant and uninterrupted flow is required.

Modular and easy to implement in a rig.



VINCI TECHNOLOGIES

Parc de l'Ile, 27B rue du Port, 92022 NANTERRE

Phone: 331 41 37 92 20 Fax: 331 41 37 04 76

e-mail: vincinet@vinci-technologies.com

<http://www.vinci-technologies.com>

LOW PRESSURE MANUAL PUMP (MP 20-LP)

Manually provides hydraulic pressure in an easy and efficient manner. The device consists a cylindrical corrosion proof chamber with a threaded spindle-actuated piston.



FEATURES

Volume: 20 ml
 Max pressure: 750 psi max
 Wetted parts: Stainless steel
 Sealing materials: Teflon, Viton
 Outlet ports: 1/8" NPT



VINCI TECHNOLOGIES

Parc de l'Ile, 27B rue du Port, 92022 NANTERRE

Phone: 331 41 37 92 20 Fax: 331 41 37 04 76

e-mail: vincinet@vinci-technologies.com

<http://www.vinci-technologies.com>

HIGH PRESSURE MANUAL PUMP (MP SERIES)

Manually provides hydraulic pressure in an easy and efficient manner. The device consists of a cylindrical corrosion proof chamber with a threaded spindle-actuated piston. They are manually operated via a rotary crank which drives a threaded spindle-piston assembly into a corrosion resistant stainless steel chamber. Four arms extend from the rotary crank to facilitate pressure incrementing. The low friction piston greatly increases seal durability. Each pump come fully equipped with a pressure gauge and frame & control valves for fluid handling.



FEATURES

Performance specifications	MP 50-10-SS
----------------------------	-------------

Volume:	50 ml
Max pressure :	10,000 psi
Wetted parts:	Stainless steel
Outlet port:	1/8 inch LP

METERING MANUAL PUMP (MP SERIES)

Excellent hydraulic fluid pressurization, transfer volume measurements and metering are achieved with these versatile pumps. They are effortlessly, manually operated via a rotary crank which drives a high-precision ball screw-piston assembly into a corrosion-resistant chamber either directly or through a worm gear drive which greatly reduces the necessary torque input. Four arms extend from the rotary crank to facilitate pressure incrementing. The low friction piston greatly increases seal durability. Each apparatus come fully equipped with a pressure gauge, hydraulic oil reservoir, high precision volumetric vernier dials and frame & control valves for fluid handling. Furthermore, little maintenance is required and the rugged design ensures an impressive life span of all components.



FEATURES

Performance specifications	MP 100-10-SS	MP 500-10-SS
Volume:	100 ml	500 ml
Volume resolution	0.01 ml	0.01 ml
Max pressure :	10,000 psi	10,000 psi
Wetted parts:	Stainless steel	Stainless steel
Outlet port:	1/8 inch LP	1/8 inch LP