

CATALOGUE OF PRODUCTS

2011



SYRINGE PUMP SERIES



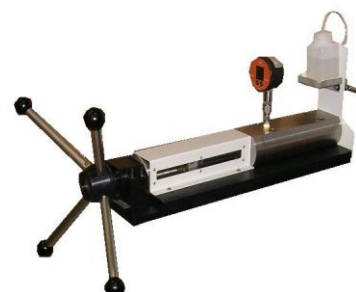
Bench floor pump



Bench top pump



Continuous flow pump



Hand operated pump

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BENCH FLOOR SINGLE SYRINGE PUMP (BFSP SERIES)

The BFSP- series meets requirements of any application where accurate pressure, flow rate and volume measurements are needed in ambient and high temperature conditions. Delivery or extraction of fluids is possible at constant rate or constant pressure. Predefined volume can be delivered or received at constant flow rate. The pump is delivered with an accurate pressure sensor, two hand operated valves for tank feeding and outlet delivery, a control panel and a reservoir. The whole is mounted on a chassis equipped with four heavy duty casters. A computer data acquisition and supervision system is also optional. A controlled temperature airbath can be provided to heat the fluid up to 200°C. The Vinci SP series provides several cylinder capacities over a wide range. Fluid wetted parts can be manufactured from stainless steel and titanium.



FEATURES

Model	Volume (ml)	Pressure (psi)	Max flow rate (ml/min)	Mini Flow rate (ml/min)
BFSP 250 - 15	250	15,000	80	0.02
BFSP 250 - 25	250	25,000	80	0.02
BFSP 500 - 15	500	15,000	80	0.05
BFSP 500 - 25	500	25,000	80	0.05
BFSP 1000 - 15	1000	15,000	80	0.1
BFSP 1000 - 25	1000	25,000	80	0.1

- (1) Wetted parts may be ordered in Stainless Steel (SS-316) or Hastelloy
- (2) The cylinder can be heated by using an heating mantle. Typical range is from ambient to + 150°C.

BENEFITS

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



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BENCH FLOOR DUAL SYRINGE PUMP (BFDP SERIES)

The BFDP series provides continuous, pulse-free flow over a wide range of pressures and operate at ambient and high temperature. Pump cylinders can be operated either individually or synchronized to pump and/or receive fluids simultaneously. Working as a co-ordinated pair, one cylinder fills from the tank and pre-pressurizes while the other is pumping the fluid, so that the system can pump continuously for any length of time. 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 whole is mounted on a chassis equipped with four heavy duty casters. A computer data acquisition and supervision system is also optional. A controlled temperature airbath can be provided to heat the fluid up to 200°C. The Vinci DP series provides several cylinder capacities over a wide range. Fluid wetted parts can be manufactured from stainless steel and titanium. Two optional automatic three-way air power 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 250 - 15	250	15,000	80	0.02
BFDP 250 - 25	250	25,000	80	0.02
BFDP 500 - 15	500	15,000	80	0.05
BFDP 500 - 25	500	25,000	80	0.05
BFDP 1000 - 15	1000	15,000	80	0.1
BFDP 1000 - 25	1000	25,000	80	0.1

- (1) Wetted parts may be ordered in Stainless Steel (SS-316) or Hastelloy
- (2) The cylinder can be heated by using an heating mantle. Typical range is from ambient to + 150°C.

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BENCH TOP SINGLE SYRINGE PUMP (BTSP SERIES)

The BTSP pumps are designed for applications requiring accurate pulse less flow and pressure control for delivery of fluids, solvents, solutions or gas. The pumps are capable of constant flow operation over wide pressure range. The pump design incorporates motor driven piston, pressure and an optional temperature measurement to comply with most application requirements. The pump architecture gives user control flexibility, stand alone and remote control operation.



FEATURES

Model	Volume (ml)	Pressure (psi)	Max flow rate (ml/min)	Mini Flow rate (ml/min)
BTSP 20 - 40	20	40,000	10	0.001
BTSP 50 - 30	50	30,000	10	0.01
BTSP 100 - 20	100	20,000	30	0.01
BTSP 100 - 15	100	15,000	30	0.01
BTSP 100 - 10	100	10,000	50	0.01
BTSP 250	250	10,000	80	0.02
BTSP 500	500	5,000	175	0.05
BTSP 1000	1000	1,875	400	0.1

- (1) Wetted parts may be ordered in Stainless Steel (SS-316) or Hastelloy (C-276)
- (2) The cylinder can be heated by using an heating mantle. Typical range is from ambient to + 150°C.

BENEFITS

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BENCH TOP DUAL SYRINGE PUMP (BTDP SERIES)

The BTDP pumps are designed to provide continuous, pulse-free flow over a wide range of pressures and operate at ambient or high temperature. Pump cylinders can be operated either individually or synchronized to pump and/or receive fluids simultaneously. Delivery or extraction of fluids is possible at constant rate or constant pressure. Two optional automatic three-way air power 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)
BTDP 100 - 20	100	20,000	30	0.01
BTDP 100 - 15	100	15,000	30	0.01
BTDP 100 - 10	100	10,000	50	0.01
BTDP 250	250	10,000	80	0.02
BTDP 500	500	5,000	100	0.05
BTDP 1000	1000	1,875	200	0.1

- (1) Wetted parts may be ordered in Stainless Steel (SS-316) or Hastelloy (C-276)
- (2) The cylinder can be heated by using an heating mantle Typical range is from ambient to + 150°C.

BENEFITS

- Compact
- Extreme long life
- Wide range of flow rate at full load
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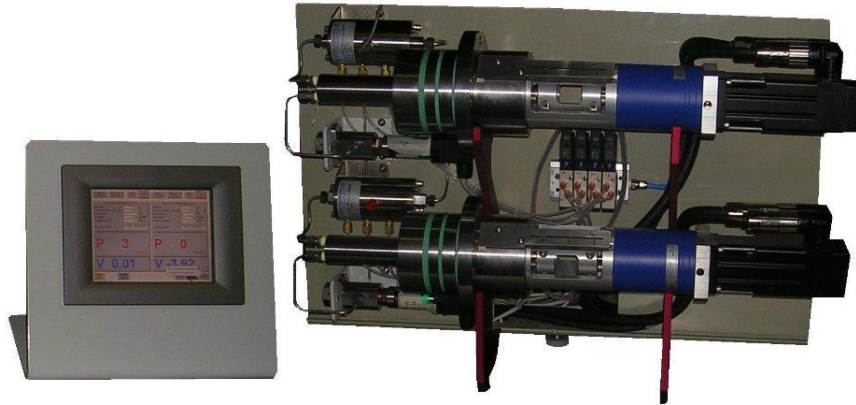
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LOW FLOW PUMP (LF SERIES)

The LF series is designed for applications requiring extremely continuous low flow rates with very high accuracy over a wide range of pressures and operates at ambient or high temperature. The unit contains two pump cylinders, motor drivers, valves, transducers and a controller. Each pump cylinder unit uses a low speed motor and uses a screw with a gear ratio of 100:1. The pump architecture gives user control flexibility, stand alone and remote control operation. The Vinci LF series provides a wide choice of pressure ratings and flow rates.



FEATURES

Performance specifications	Model LF 20	Model LF 10	Model LF 5
Maximum pressure rating: psi	7,500 psi	10,000 psi	20,000 psi
Pressure accuracy: %FS	0.1%	0.1%	0.1%
Maximum flow rate: ml/min	15 ml/min	15 ml/min	10 ml/min
Minimum flow rate: ml/min	0.005 ml/min	0.005 ml/min	0.005 ml/min
Single stroke volume: ml	20 ml	10 ml	5 ml
Temperature range: °C	Ambient or HT ⁽¹⁾	Ambient or HT ⁽¹⁾	Ambient or HT ⁽¹⁾
Wetted parts	SS or HAST	SS or HAST	SS or HAST
Tubing connector	1/8 inch	1/8 inch	1/8 inch
Power supply:	230 VAC, 50 Hz	230 VAC, 50 Hz	230 VAC, 50 Hz
Air required: psi	100 psi	100 psi	100 psi

⁽¹⁾ Maximum temperature: 150°C



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HIGH FLOW PUMP (HF SERIES)

The HF series is designed for applications requiring very high flow rates and so it is perfect for application requiring large volumes or high delivery rate. The pump design is compact, lightweight and fully enclosed. The unit contains two pump cylinders, motor drivers, valves, transducers and a controller. The pump uses control software that can run from a front panel or from an optional remote computer. The front panel touch screen display gives you full control of the pump. The Vinci HF series provides a wide choice of pressure ratings and flow rates.



FEATURES

Performance specifications	HF 150	HF 50	HF 15	HF 14	HF 7
Maximum pressure rating: psi	500	1,500	6,000	10,000	15,000
Pressure accuracy: %FS	0.1%	0.1%	0.1%	0.1%	0.1%
Maximum flow rate: ml/min	100	50	15	15	10
Minimum flow rate: ml/min	0.1	0.01	0.006	0.006	0.006
Single stroke volume: ml	150 ml	50 ml	15 ml	14 ml	7 ml
Temperature range: °C	Ambient	Ambient	Ambient	Ambient	Ambient
Tubing connector: inch	1/8	1/8	1/8	1/8	1/8
Wetted parts	SS or hast	SS or hast	SS or hast	SS or hast	SS or hast
Power supply:	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC
Air required: psi	100	100	100	100	100



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HEATED TRIPLE PUMP (HTP SERIES)

The HTP pumps are designed to provide continuous, pulse-free flow over a wide range of pressures and operate at ambient or high temperature. Pump cylinders are synchronized to pump and/or receive fluids simultaneously without interrupting the flow rate at constant pressure. The HTP can be used for steady or unsteady state experiments in either flow-through or recirculating configuration. The model uses three pump cylinders connected to each other by three 3-ways air power valve for fluid delivery and fluid feeding. 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.



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HAND OPERATED PUMP (MP SERIES)

Designed to provide hydraulic pressure and volume measurement for gas and liquid transfer into high pressure cells. The pump can be delivered with a manometer, two hand operated valves for tank feeding and outlet delivery, a tank, a volumetric vernier and a bench top frame. Fluid wetted parts are manufactured from stainless steel. Several pump cylinder capacities over a wide range of pressure are available.



FEATURES

Performance specifications	Model MP 10	Model MP 25	Model MP 50
Maximum pressure rating: psi	10,000 psi	10,000 psi	10,000 psi
Pressure accuracy: %FS	0.5%	0.5%	0.5%
Single stroke volume: ml	10 ml	25 ml	50 ml
Temperature range: °C	Ambient	Ambient	Ambient
Wetted parts	SS	SS	SS
Tubing connector	1/8 inch	1/8 inch	1/8 inch

Performance specifications	Model MP 100	Model MP 250	Model MP 500
Maximum pressure rating: psi	10,000 psi	10,000 psi	10,000 psi
Pressure accuracy: %FS	0.5%	0.5%	0.5%
Single stroke volume: ml	100 ml	250 ml	500 ml
Temperature range: °C	Ambient	Ambient	Ambient
Wetted parts	SS	SS	SS
Tubing connector	1/8 inch	1/8 inch	1/8 inch



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