


ProSeries[®] *by Blue-White Ind.[®]*



ProSeries EXCEED THE EXPECTED



Dear Industry Professional:

Blue-White Industries has a history of providing innovative, cost-effective and user friendly products. The ProSeries line of products continues this tradition.

For more than five decades, we have listened closely to our customers, distributors, and industry professionals. The result is the innovative, cost effective and reliable ProSeries line of Metering Pumps and Flowmeters.

We recently introduced two new ProSeries products, the Flex-Pro A4 Peristaltic Metering Pump, and the Chem-Feed Engineered Skid Systems. These new products are packed with desired features and engineered to provide years of reliable service, even in the most demanding applications.

But it's not just about the products. The ProSeries is backed by a world wide network of highly qualified distributors and representatives, committed to providing an unparalleled level of customer service. In addition, the factory-based sales and technical staff are pleased to offer assistance.

Our lead times are measured in days, not weeks, and our two year warranty is comprehensive not confrontational.

We are excited about the future of the ProSeries products. We look forward to discussing your application, and helping you choose the most well suited product.

Kind Regards,
The ProSeries Team

ProSeries[®]
by Blue-White Ind.

BLUE-WHITE[®] INDUSTRIES

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www.blue-white.com | www.bluwwhite.com



BLUE-WHITE® INDUSTRIES is a privately held company located in Huntington Beach, California. Blue-White is a manufacturer of Peristaltic and Diaphragm type Metering Pumps, Complete Metering Systems, Variable Area Flowmeters, Hybrid Ultrasonic Flowmeters, Digital Paddlewheel Meters, and Water Treatment Accessories.

Blue-White is well known as a company that is pleased to provide expert technical assistance to customers, outstanding customer service and full warranties. In addition, Blue-White takes pride in the way employees are treated including, competitive wages and excellent benefits. More than 50% of the current employee workforce has been with the company 10 or more years. We believe happy employees build better products.

COMPANY INFORMATION

Date of Incorporation: January 9, 1957
 Company Trade Marks:
 Blue-White®
 CHEM-FEED®
 FLEXFLO®
 ProSeries®
 Chem-Pro®
 Sonic-Pro®
 Flex-Pro®
 BW DIGI-METER®
 TFD® Patented Tube Failure Detection System

INDUSTRIES SERVED:

Water and Waste Water Treatment
 Oil and Gas Industry
 Rural Water Systems
 Aquaculture
 Agriculture
 Food and Beverage Manufacturing
 Chemical Processing
 Car and Truck Wash
 Swimming Pool

COMPANY HEADQUARTERS

Blue-White Industries is located in Huntington Beach, California. Blue-White built and owns their 50,000 square foot facility. Such a large facility takes up five lots and, is on three streets: Business Drive, Chemical Avenue and Production Lane. Corporate address is: 5300 Business Drive, Huntington Beach, California 92649 USA.

In addition, Blue-White owns and operates a 9000 square foot testing (NIST), machining, warehousing and repair center also located in Huntington Beach.

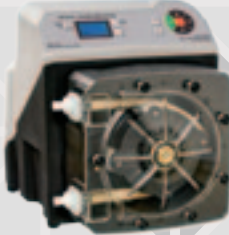
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FLEX-PRO® A3 Peristaltic Metering Pump



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FLEX-PRO® A4 Peristaltic Metering Pump



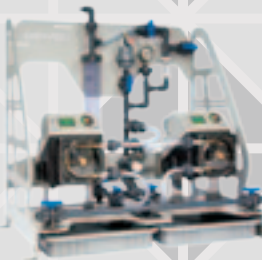
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The **FLEX-PRO[®] A3** Peristaltic metering pump

Blue-White has taken the top quality, highly efficient Flex-Pro A3 and made it even better. Our engineering department listened to the suggestions and requests of our customers, including engineers in the field, and made some design modifications and enhancements. You'll find these significant changes listed below.

In addition, the built-in controller, Blue-White's exclusive patented Tube Failure Detection system, and a multitude of pump tube sizes and materials from which to choose, make Flex-Pro the pump of choice for many applications.

NEW FEATURES

Updates and enhancements begin with the electronics, which now include a large terminal block mounted within the newly designed junction box. This modification makes it easier to access the electronics. And, the junction box is now one piece rather than two.



With the Flex-Pro A3s' Newly Engineered Terminal Block – complete with color-coded overlays – making connections is fast and efficient. Plus, the Flex-Pro's New junction box provides extra working room. There are no loose wires. The Flex-Pro A3s' New terminal block board, located within the junction box, utilizes eleven pluggable terminal blocks. The easy-to-understand, color-coded overlay clearly identifies terminals and connections. Just follow the handy overlay guide. The Flex-Pro A3 Junction Box has five cable glands, and the A3 is equipped with water-tight connectors. With Flex-Pro A3s' thoughtfully designed user-friendly connectors you choose what's right for your installation.

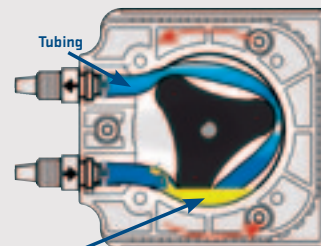


- ▲ Hard Conduit or flexible cable.
- ▲ Multiple pump tube sizes and materials from which to choose.
- ▲ Multi color LCD Display.



TFD system Tube Failure Detection

Blue-White's exclusive patented Tube Failure Detection system, no one comes close to this breakthrough technology (U.S. patent: 7,001,153 and 7,284,964). In fact, the TFD may be the most important patent ever awarded for peristaltic pumps. The TFD System will detect a wide range of chemicals with no false triggering. If the TFD senses tube failure, the pump will automatically shut off and energize a relay or switch, permitting communication with external equipment, such as a back-up pump or alarm. Simple, efficient and BUILT-IN to every Flex-Pro Pump.



The pump shuts down when chemical is detected in the pump head. Will not false trigger from water during wash down or rain.

OUTPUT

Choose from multiple pump tube sizes and materials.

Minimum 0.0008 U.S. gallons per hour (0.003 liters per hour).

Maximum 33.3 U.S. gallons per hour (126 liters per hour).

PRESSURE

Maximum inlet pressure 125 pounds per square inch (8.6 bar).

Maximum system pressure 125 pounds per square inch (8.6 bar).

Maximum suction lift 30 feet of water.

CONTROL

Remote speed control via 4-20mA, 0-10 VDC, pulse inputs.

Pulse triggered batching.

2500:1 turndown.

Remote start/stop.

Remote/Local lockout.

Bi-directional flow.

Output motor speed tachometer via 4-20mA or high speed digital pulse.

Tube Failure Detection and Flow Verification systems.

Alarm outputs: one 6 amp 250VAC relay, three 1 amp 115VAC contact closures.

Alarm monitoring: any 4 of 17 pump functions/features.

ACCURACY

+/- 0.5% of full scale.

FLUIDS

Chlorine	Acid
Caustic	Polymer
Alum	Ferric chloride
Sodium Bisulfite	Ink
Dye	Sludge
Slurry	Flocculant and other fluids
Please contact the factory for additional information.	

ENVIRONMENT

NEMA 4X (IP 66) wash down duty.

DIMENSIONS*

Height 10.75" (27.3 cm)

Width 8.13" (20.6 cm)

Depth 15.25" (38.9 cm)

Weight 29.5 lbs. without packaging

* Dimensional and weight information may be approximate.

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NEW!

The **FLEX-PRO[®] A4** Peristaltic metering pump

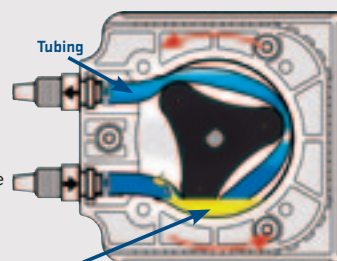
Blue-White is proud to introduce the newest addition to the ProSeries product line. The Flex-Pro A4 is our largest, and highest volume peristaltic metering pump. The Flex-Pro A4 is the result of over 30 years of peristaltic pump manufacturing experience. The Flex-Pro includes all the features you need, combined with the ease of use busy operators demand. Flex-Pro's built-in controller, exclusive patented Tube Failure Detection system, and a multitude of pump tube sizes and materials, as well as control options, make the Flex-Pro the pump of choice in many applications.



Tube Failure Alarm

TFD system Tube Failure Detection

Blue-White's exclusive patented Tube Failure Detection system, no one comes close to this breakthrough technology (U.S. patent: 7,001,153 and 7,284,964). In fact, the TFD may be the most important patent ever awarded for peristaltic pumps. The TFD System will detect a wide range of chemicals with no false triggering. If the TFD senses tube failure, the pump will automatically shut off and energize a relay or switch, permitting communication with external equipment, such as a back-up pump or alarm. Simple, efficient and BUILT-IN to every Flex-Pro Pump.



Non-Compatible Fluid is immediately detected in the pump head. The pump shuts down.

OUTPUT

Choose from multiple pump tube sizes and materials .

Minimum 0.008 U.S. gallons per hour (0.031 liters per hour).

Maximum 158.5 U.S. gallons per hour (600 liters per hour).

PRESSURE

Maximum inlet pressure 125 pounds per square inch (8.6 bar).

Maximum system pressure 125 pounds per square inch (8.6 bar).

Maximum suction lift 30 feet of water.

CONTROL

Remote speed control via 4-20mA, 0-10 VDC, pulse inputs.

Pulse triggered batching.

2500:1 turndown.

Remote start/stop.

Remote/Local lockout.

Bi-directional flow.

Output motor speed tachometer via 4-20mA or high speed digital pulse.

Tube Failure Detection and Flow Verification systems.

Alarm outputs: one 6 amp 250VAC relay, three 1 amp 115VAC contact closures.

Alarm monitoring: any 4 of 17 pump functions/features.

ACCURACY

+/- 0.5% of full scale.

FLUIDS

Chlorine

Acid

Caustic

Polymer

Alum

Ferric chloride

Sodium Bisulfite

Ink

Dye

Sludge

Slurry

Flocculant and other fluids

Please contact the factory for additional information.

ENVIRONMENT

NEMA 4X (IP 66) wash down duty.

DIMENSIONS*

Height 14.25" (36.1 cm)

Width 12.13" (30.8 cm)

Depth 18.63" (47.3 cm)

Weight 48 lbs. without packaging

* Dimensional and weight information may be approximate.

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The **SONIC-PRO**[®] Series Hybrid Flowmeter

The Sonic-Pro Hybrid Ultrasonic Flowmeter includes both Doppler and Transit-Time operating methods allowing it to measure both dirty and clean fluids. Because the clamp-on transducers are installed on the exterior of the pipe surface and have no moving parts, the meter is ideally suited for harsh chemical and abrasive fluid applications that would damage most other meters. The Sonic-Pro can be quickly installed on metal or plastic pipes from 1-1/2" to 100" diameter reducing installation costs. The Sonic-Pro also includes a built-in data logger, as well as analog and digital output signals as standard equipment. The meter can be supplied with an optional software/communications package for remote viewing and configuration, and a relay package for process control and alarm functions.



Model S3



S3 ships in hard sided carrying case with necessary hardware and accessories.

DISPLAY OPTIONS



Model S2



Model S1

PIPE

1 inch through 100 inch diameter plastic pipe in Doppler mode.

1-1/2 inch through 100 inch diameter plastic pipe in Transit-Time mode.

2 inch through 100 inch diameter metal pipe in Doppler and Transit-Time mode.

FLUID

Virtually any acoustically conductive fluid.

Doppler mode requires 0.02% to 15% of sound reflective particles 50 micron or larger.

Maximum of 10% particles for Transit-Time operation.

Velocity 0.25 to 30.0 feet per second.

ACCURACY

+/- 1% of rate in Transit-Time mode at greater than 1 fps fluid velocity.

+/- 0.01 fps in Transit-Time mode at less than 1 fps fluid velocity.

+/- 2% of rate in doppler mode at greater than 5 fps fluid velocity.

+/- 0.1 fps in doppler mode at less than 5 fps fluid velocity.

INTERFACE

S3 models include LCD display with 5-button touch pad for configuration access.

S2 models include LCD display with 2-button touch pad - no configuration access.

S1 models do not include a display - no configuration access.

4-20mA analog output.

0-1000 Hz digital pulse output.

Data logging to SD Card. 150,000 events possible on included 16MB card.

Optional computer connection via USB, Ethernet or RS-232 for remote view and configuration.

Optional relays (three 10A 250V form C) for rate alarms and process control functions.

ENVIRONMENT

NEMA 4X (IP 66) wash down duty.

Includes carrying case and accessories for portability.

DIMENSIONS*

Height 10.75" (27.3 cm)

Width 8.13" (20.6 cm)

Depth 15.25" (38.9 cm)

Weight 10.0 lbs. without packaging

* Dimensional and weight information may be approximate.

The **CHEM-PRO® C2** and **C3** Metering pump

The Chem-Pro Diaphragm metering pump is manufactured using only the finest materials, resulting in superior chemical resistance for increased reliability, and reduced maintenance costs. The quiet, powerful DC gear motor is enclosed in a rugged, chemical resistant polyester powder coated metal housing rated for wash-down installations. The Chem-Pro also includes a built-in controller with remote motor speed control, digital user interface, diaphragm leak detection system and alarm output. The Chem-Pro—exceeding expectations.



Model C2



Model C3

OUTPUT

C2

Minimum 0.7 U.S. gallons per hour (0.27 liters per hour).
Maximum 20.3 U.S. gallons per hour (76.8 liters per hour).

C3

Minimum 0.19 U.S. gallons per hour (0.74 liters per hour).
Maximum 42.0 U.S. gallons per hour (159 liters per hour).

PRESSURE

Maximum 175 pounds per square inch (12 bar).
Suction lift 15 feet of water.

CONTROL

Remote speed control via 4-20mA, 0-10 VDC, pulse inputs.
Pulse triggered batching.
100:1 turndown.
Diaphragm leak detection and Flow Verification systems.
Alarm output: one 3 amp 250VAC relay.

PUMP HEAD MATERIALS

PVDF	TEFLON
Viton	Ceramic

FLUIDS

Chlorine	Acid
Caustic	Alum
Ferric chloride	Sodium Bisulfite
Ink	Dye

Flocculant and other fluids
Please contact the factory for additional information.

ENVIRONMENT

NEMA 4X (IP 66) wash down duty.

DIMENSIONS*

C2

Height 7.75" (19.7 cm)
Width 11.75" (29.8 cm)
Depth 10.75" (27.4 cm)
Weight 19.2 lbs. without packaging

C3

Height 9.00" (22.8 cm)
Width 13.13" (33.3 cm)
Depth 10.75" (27.4 cm)
Weight 23.25 lbs. without packaging

* Dimensional and weight information may be approximate.

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The **CHEM-FEED**[®] Engineered **SKID SYSTEM**

The Chem-Feed Engineered Skid System was designed and engineered using solid modeling tools for superior quality and easy component maintenance. The strong, lightweight system can be floor or wall mounted for easy operator access. Custom engineered universal mounting blocks, and pre-assembled component assemblies, are easily stocked and field replaceable into pre-machined mounting slots. Each factory built and tested system can be supplied with any ProSeries metering pump, peristaltic or diaphragm.



Double Skid Model

Single Skid Model

LIGHTWEIGHT!
Can be shipped via UPS.

CONSTRUCTION

Chemically resistant polyester powder coated 6061-T6 aluminum. Welded joint construction.
Schedule 80 PVC piping and unions.
True union vented ball valves with PTFE shaft bearings and seats.
316 stainless steel skid mounting pads.
316 stainless steel pump mounting extension brackets.
150 PSI maximum working pressure (10.2 bar).

COMPONENTS

Pressure relief valve

PVC body, PTFE diaphragm seal, HDPE adjustment screw, 5-100 PSI adjustment range.

Check Valve

PVC body, Viton diaphragm (optional EP), cracking pressure 1.0 - 1.5 PSI.

Inlet Strainer

PVC body, Viton seals (optional EP).

Calibration Cylinder

PVC body, PVC end caps.

Pulsation Dampener

10 cubic inch volume, CPVC body, Viton bladder (optional EP).

Pressure gauge with guard

Gauge: Liquid filled SS gauge with blowout plug, bottom mount, 1/4" NPT threads.
Guard: PVC body, Viton diaphragm seal (optional EP), temperature compensated oil filled.

Flow Indicator

Machined cast acrylic body, PVC connections, ceramic ball indicator, polypropylene ball stop, PVC half unions, Viton seals (optional EP).

Drip Tray

Polypropylene

Tubing

Reinforced braided PVC, 200 PSI max, NSF std. 51.

Tubing Clamps

300 series stainless steel band, 400 series stainless steel screw.

DIMENSIONS*

Single Skid

Height 35.00" (88.9 cm)
Width 23.75" (60.3 cm)
Depth 24.00" (61.0 cm)
Weight 60 lbs. (27.2 Kg) without pumps

Double Skid

Height 35.00" (88.9 cm)
Width 39.75" (101.0 cm)
Depth 24.00" (61.0 cm)
Weight 70 lbs. (31.8 Kg) without pumps

* Dimensional and weight information may be approximate.

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Sonic-Pro clamp-on ultrasonic flowmeter, solves the problem of fluid measurement where there is sludge build-up, in this groundwater remediation application.



Chlorine dosing at this municipality is much more precise, accurate, and consistent using a peristaltic pump rather than a pulsating pump. The operator was impressed at how easily the peristaltic pump hooked into their SCADA system.



The Chem-Pro diaphragm metering pump's small size provided a simple solution in this high pressure, high output fertigation application.



All ProSeries products have a NEMA 4X enclosure making them ideally suited for demanding outdoor industrial applications.

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Sonic-Pro quickly installed on this 10" 316 stainless steel water flood injection line resulting in zero down time on this 50,000 barrel per day oil production application.



Flex-Pro cannot vapor lock in this chloramine application.



Sonic-Pro's ability to measure corrosive fluids from outside the pipe made it the perfect choice for this food processing plant's potassium hydroxide application.

50+ Years of solutions

Blue-White products provide money saving solutions in a wide range of the most demanding applications, including:

- Municipal Water
- Chemical Metering
- Wastewater Treatment
- Food and Beverage
- Agriculture
- Groundwater Remediation
- Ultra-Pure Water
- Oil & Gas Production
- Plating
- Mining
- Pulp & Paper
- Printing
- Boiler Treatment
- Textiles
- Commercial Swimming Pools
- Water Features and Water Parks
- Car and Truck Washes



DISTRIBUTION

The ProSeries is backed by a world wide distribution network committed to providing an unparalleled level of customer service. Our distribution network is designed to make it easy for the operator to gain access to the product in a timely manner and at reasonable prices.

LEAD TIME

Blue-White products are shipped worldwide. Our manufacturing facility, located in Huntington Beach, California, puts us in close proximity to all types of shipping methods and major carriers. ProSeries products are typically shipped within three to five days of receipt of order.

CUSTOMER SERVICE

In addition to our extensive distribution network, the ProSeries is supported by a group of highly skilled, experienced regional representatives committed to ensuring your complete satisfaction. They can be called upon to assist you with any challenges you may have such as locating a distributor, writing a specification, or solving a tough application. Our knowledgeable factory sales staff and technical support personnel are also available to assist you.

WARRANTY

The ProSeries products are covered by a two year factory warranty. We are convinced these products will exceed your expectations in your most demanding applications.

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