

Blue-White® FLEXFLO® A-100N Metering Pumps

- Variable speed motor delivers consistent continuous chemical feed
- Patented Tube Failure Detection system shuts off pump in case of leak
- Models available with 4-20 mA input for external pacing

Blue-White
Industries, Ltd.



Manual Control Pump

FLEXFLO A-100N pumps are naturally degassing and self-priming, making them ideal for use with off-gassing chemicals like sodium hypochlorite. True variable-speed DC motors provide consistent chemical feed, minimizing pump maintenance and eliminating the need for mechanical starting/stopping. Heavy-duty NEMA 3R Valox® housing is chemical resistant.

Patented Tube Failure Detection (TFD) system halts pump operation in the event of tube failure. TFD system on **pumps for chlorine and general chemicals** uses a capacitive sensor to detect leaks. TFD+ system on **pumps for polymer** uses an optical sensor due to low conductivity.

Choose from two pump types. **Manual pumps (A-100NF series)** feature a speed dial on the front of the pump for manual feed rate control. **External control pumps (A-100NV series)** can receive 4-20 mA, 0-10 VDC and pulsed signal inputs from external devices like flowmeters or chlorine analyzers. Use these signal inputs to automatically adjust pump output.

Includes: two pump tubes, 5 feet each of PVC suction tubing and LLDPE discharge tubing, mounting kit, suction strainer, ceramic weight and injector. Optional CHEM-SENSOR S6 flow verification sensors are available for external control pumps; see page 105 for more information.



External Control Pumps offer a keypad and display.

Max viscosity:	5000 cP
Suction lift:	30 feet
Turndown ratio:	20:1
Accuracy:	±5%
Input:	4-20 mA and pulse (external control models only)
Power:	115 VAC

Pumps for Chlorine & General Chemicals w/ TFD

Use with ammonium chloride, ammonium hydroxide, 20% calcium hypochlorite, ferric sulfate, hydrogen peroxide, potassium permanganate, sodium bisulfate, 40% sodium hydroxide (caustic), 12.5% sodium hypochlorite and 50% sulfuric acid. Call for compatibility with other chemicals.

Wetted materials: Flex-A-Prene® (AKA Tygon® or Norprene®) pump tube w/ PVDF adapter fittings, PVC suction tubing, polyethylene (LLDPE) discharge tubing, polypropylene suction strainer and injection check valve, ceramic check ball, Hastelloy C-276 spring and PTFE/FKM O-rings.

Chlorine & General

MAX GPD	PSI	CONNECTION	MANUAL CONTROL PUMPS			EXTERNAL CONTROL PUMPS			REPLACEMENT TUBES		
			MFR #	STOCK #	EACH	MFR #	STOCK #	EACH	MFR #	STOCK #	EACH
2.3	100	3/8" OD Tube	A1N00F-4T	42178	\$	A1N00V-4T	350385	\$	A1-4T	85544	\$
4.9	100	3/8" OD Tube	A1N10F-4T	42179		A1N10V-4T	25935		A1-4T	85544	
9.5	75	3/8" OD Tube	A1N30F-4T	42180		A1N30V-4T	25936		A1-4T	85544	
24	100	3/8" OD Tube	A1N20F-6T	42181		A1N20V-6T	25937		A1-6T	85545	
52.5	50	3/8" OD Tube	A1N10F-7T	42182		A1N10V-7T	25938		A1-7T	85546	
95.1	50	3/8" OD Tube	A1N30F-7T	42183		A1N30V-7T	25939		A1-7T	85546	

TFD system
Tube Failure Detection
Patent No. 7,021,182

Pumps for Polymer & Other Flocculants w/ TFD+

Use with polymers. Call for compatibility with other chemicals. **Wetted materials:** Flex-A-Thane® (AKA Versilon™ or Tygothane®) pump tube with PVDF adapter fittings, PVC suction tubing, polyethylene (LLDPE) discharge tubing, polypropylene suction strainer, polypropylene injection check valve, ceramic check ball, Hastelloy C-276 spring and PTFE/FKM O-rings.

Polymers

MAX GPD	PSI	CONNECTION	MANUAL CONTROL PUMPS			EXTERNAL CONTROL PUMPS			REPLACEMENT TUBES		
			MFR #	STOCK #	EACH	MFR #	STOCK #	EACH	MFR #	STOCK #	EACH
5.7	65	3/8" OD Tube	A1N00F-1T-P	85798	\$	A1N00V-1T-P	350288	\$	A1-1T	85548	\$
13.3	65	3/8" OD Tube	A1N10F-1T-P	85804		A1N10V-1T-P	350289		A1-1T	85548	
25.5	65	3/8" OD Tube	A1N30F-1T-P	350014		A1N30V-1T-P	350290		A1-1T	85548	
53.2	65	3/8" OD Tube	A1N30F-2T-P	350284		A1N30V-2T-P	350291		A1-2T	85549	
99.2	50	3/8" OD Tube	A1N20F-3T-P	350286		A1N20V-3T-P	350293		A1-3T	85550	
124	50	3/8" OD Tube	A1N30F-3T-P	350287		A1N30V-3T-P	350294		A1-3T	85550	

TFD+
Tube Failure Detection

Replacement Items & Accessories

MFR #	DESCRIPTION	STOCK #	EACH	MFR #	DESCRIPTION	STOCK #	EACH
A-014N-6A	Injection Fitting (PVDF)	25953	\$	71000-159	Roller Assembly, #4 and #6 Tube	25956	\$
C-342-6	Strainer Tube (Inlet/Suction), 1/4" ID	16404		71000-255	Roller Assembly, #5 and #8 Tube	25959	
A1-5T	Pump Tube, #5 FKM (New Style)	85551		71000-350	Roller Assembly, #1, #2, #3 and #7 Tube	25957	
—	Replacement Thumb Screw	85646		72000-550	Retrofit Kit (Includes Cover and Spacer)	85542	

Blue-White® MICRO-FLO Flow Verification Sensors

Connect this sensor to your Blue-White A-100N pump with external control for continuous flow monitoring. If flow through the sensor is interrupted, the pump stops and the sensor's programmable 10A alarm relay closes, triggering a remote alarm or back-up pump. Choose from six flow ranges.

MFR #	MIN GPD	MAX GPD	STOCK #	EACH
FV-101-6V	11.4	76.1	42184	\$
FV-201-6V	19	342.4	85142	
FV-301-6V	38	684.7	85143	
FV-401-6V	114.1	1141.2	85144	
FV-501-6V	190.2	1902	85145	
FV-601-6V	266.3	2662.9	85146	

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