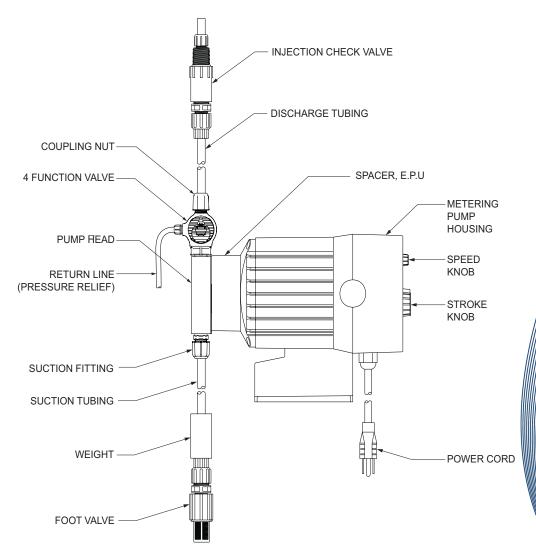


an Accudyne Industries brand



Metering Pump Component Diagram

Series B1

Electronic Metering Pump

Specification Sheet and Assembly Details

Manual No : 1034, 1828

Rev. : H, C

Rev. Date : 6/09, 10/2015



FOR SALES AND SUPPORT CALL TOLL FREE 877-742-2878

Return to BurtProcess.com





GENERAL

Chemical metering pumps shall be positive displacement, Liquifram $^{\text{TM}}$ type pumps that are UL and CUL approved. Output volume shall be adjustable while pumps are in operation from zero to maximum capacity of:

B11, B71, B91 - 1.6 GPH (6.1 liters per hour) B12, B72, B92 - 2.5 GPH (9.5 liters per hour) B13, B73, B93 - 4.5 GPH (17.0 liters per hour) B14, B74, B94 - 7.0 GPH (26.5 liters per hour)

Chemical metering pumps shall be capable, without a hydraulically backed diaphragm, of injecting solutions against pressures up to:

B11, B71, B91 - 150 psig(10.3 bar) B12, B72, B92 - 100 psig(6.9 bar) B13, B73, B93 - 50 psig(3.4 bar) B14, B74, B94 - 30 psig(2.1 bar)

SERIES B1

Adjustment shall be by means of readily accessible dial knobs, one for changing stroke length and the other for changing stroke frequency. Both knobs are to be located opposite the liquid handling end.

SERIES B7

Control of Series B7 metering pumps shall be selectable between internal and external pulsing by means of a 3-position center-off switch. Stroke length shall be adjustable by means of readily accessible dial knob. When in external pulsed mode, Series B7 units shall accept signals without the use of electrical timer or internal timer. Pressure capacity shall be adjustable to reduce noise, vibration and wear.

SERIES B9

Series B9 metering pumps shall have a clear liquid crystal display. Control shall be selectable between internal and external pulsing by means of a tactile keypad. Internal stroke frequency shall be adjustable from 1 stroke per hour to 100 strokes per minute. Pressure capacity

shall be keypad adjustable to reduce noise, vibration and wear. Metering pump shall be capable of dividing or multiplying pulse inputs from 1 to 999 or responding directly or inversely to a 4-20mA input signal.

DRIVE

The pump drive shall be totally enclosed with no exposed moving parts. Solid state electronic pulser shall be fully encapsulated and supplied with quick connect terminals at least 3/16" (4.75 mm) wide. Electronics shall be housed in chemical resistant enclosure at the rear of the pump for maximum protection against chemical spillage. Electrical power consumption shall not exceed 29 watts per hour under full speed and maximum pressure conditions. Pump weight shall not exceed 15 lbs (6.9 kg).

AUTOMATIC PRESSURE RELIEF

To eliminate need for pressure relief valve, LiquiframTM shall automatically stop pulsating when discharge pressure exceeds pump pressure rating by not more than 35%.

MATERIAL

Chemical metering pump housing shall be of chemically resistant glass fiber reinforced thermoplastic. All exposed fasteners shall be stainless steel. Chemical metering pump valves shall be ball type, with ceramic balls¹. Valve seat and seal ring shall be renewable by replacing the combination seat-seal ring² or cartridge valve assembly. Pump head shall be of transparent acrylic³ material capable of resisting the pumped chemical. Fittings and connections at pump head shall be PVC⁴.

CHECK VALVES AND TUBING

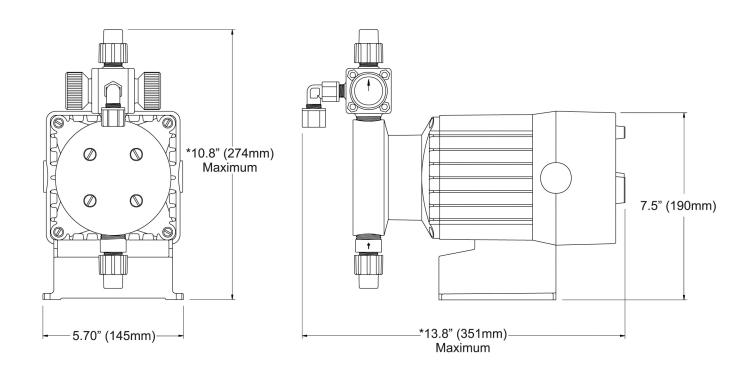
A total of 16 ft (4.8 m) of polyethylene tubing⁵ shall be provided per pump complete with compression connections. A foot valve with integral one piece strainer shall be provided for the suction line, and an injection/back pressure check valve with ½" NPT male connection for the injection point. The injection check valve shall incorporate a dilating orifice which prohibits scale formation and accumulation of crystalline deposits.

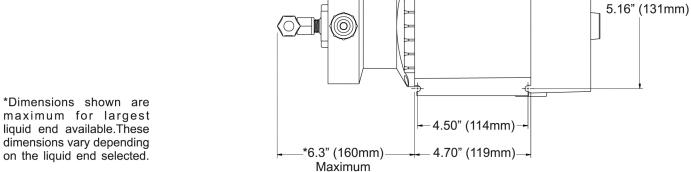
Notes:

- 1. Type 316 stainless steel or PTFE may be specified.
- 3. PVDF, PVC, Polypropylene, or Type 316 stainless steel may be specified.
- 2. Hypalon®, PTFE or Polyprel® may be specified.
- 4. PVDF, Polypropylene, or Type 316 stainless steel may be specified.
- 5. 6 ft (1.8 m) of vinyl suction tubing may be specified in place of polyethylene for the suction side only. 1/4" or 1/2" pipe thread may be specified.



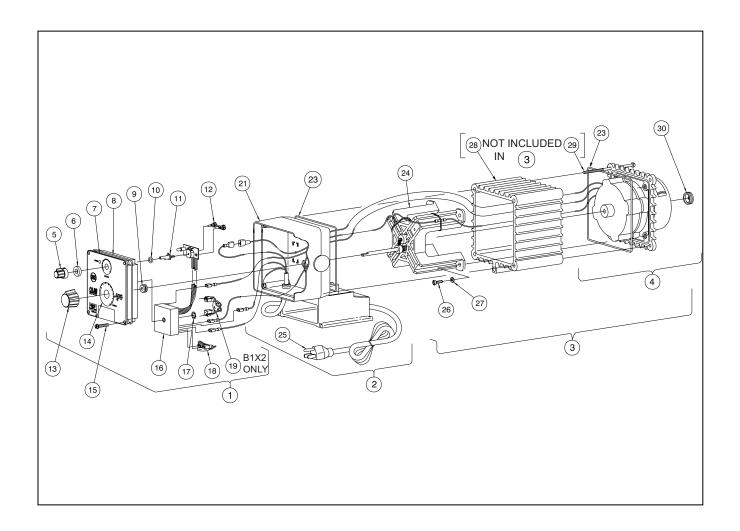
201 Ivyland Road Ivyland, PA 18974 USA TEL: (215) 293-0401 FAX: (215) 293-0445 http://www.lmipumps.com



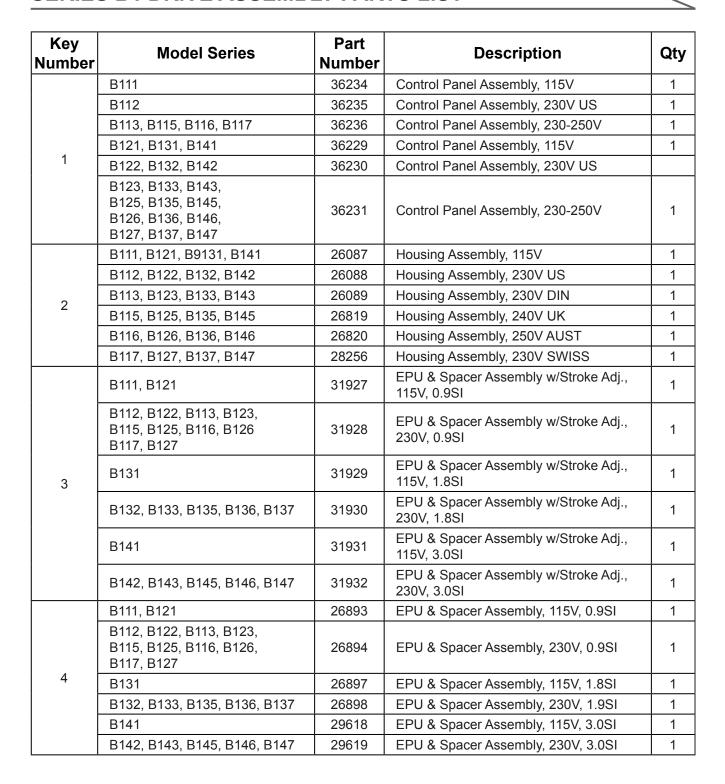


*Dimensions shown are maximum for largest liquid end available.These dimensions vary depending

SERIES B1 DRIVE ASSEMBLY EXPLODED VIEW DIAGRAM



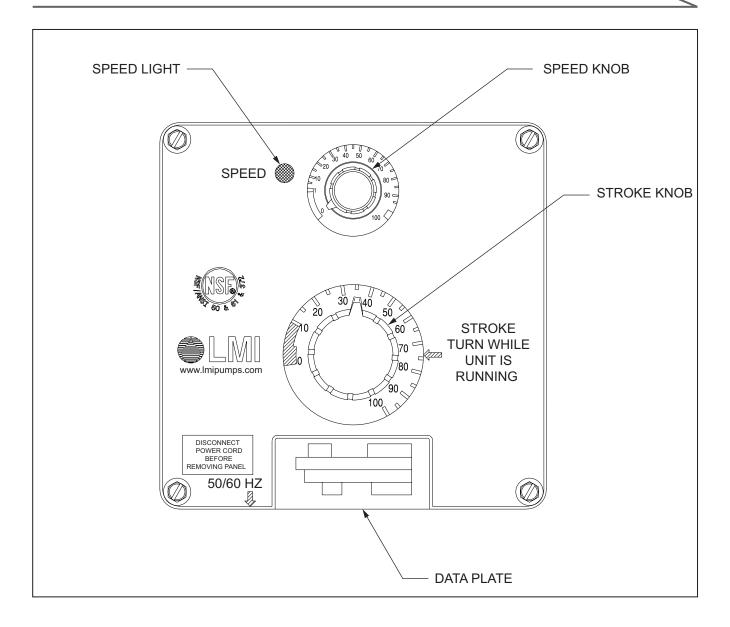
SERIES B1 DRIVE ASSEMBLY PARTS LIST



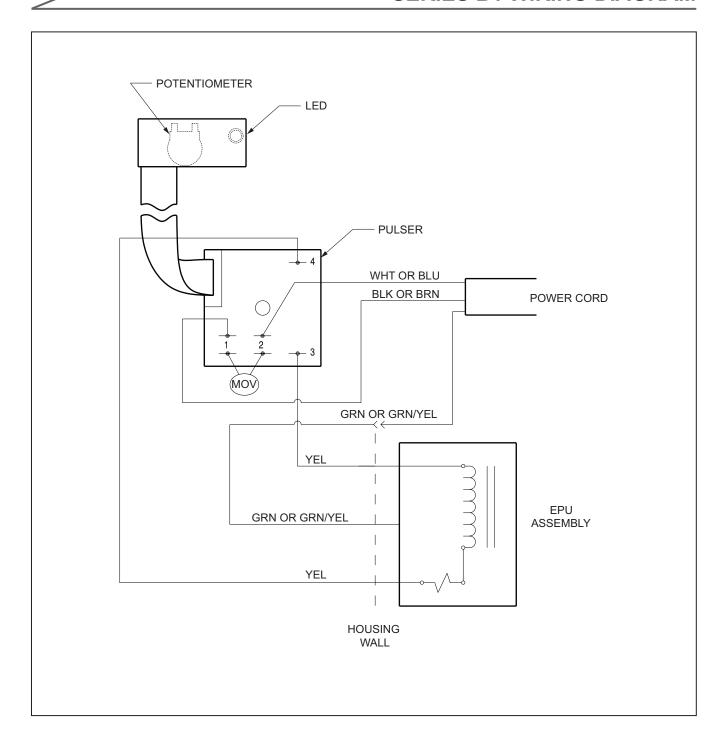
SERIES B1 DRIVE ASSEMBLY PARTS LIST

Key Number	Model Series	Part Number	Description	Qty
5	B1	30709	Speed Knob	1
6	B1	30803	Gasket	1
7	B1	36256	Panel with Nameplate	1
8	B1	10166	O-Ring	1
9	B1	10465	Grommet	1
10	B1	34497	O-Ring	1
11	B1	35743	Speed Shaft	1
12	B1	35744	Dual Pin	1
13	B1	31891	Stroke Knob Assembly	1
14	B11	25882	Stroke Dial	1
15	B1	30306	Screw	4
16	B1	36255	Pulser	1
17	B1	10422	Retaining Ring	1
18	B111, B121, B131, B141	10626	Varistor Assembly, 115V	
	B112, B122, B132, B142, B113, B123, B133, B143, B115, B125, B135, B145, B116, B126, B136, B146, B117, B127, B137, B147	10627	Varistor Assembly, 230-250V	1
19	B112, B122, B132, B142	25268	Power Cord, 230V US	1
21	B1	35398	Housing	1
23	B1	35269	O-Ring	2
24	B1	31898	Stroke Adjustment Assembly	1
25	B111, B121, B131, B141	26293	Power Cord Assembly, 115V	1
	B112, B122, B132, B142	26296	Power Cord Assembly, 230V US	1
	B113, B123, B133, B143	26297	Power Cord Assembly, 230V DIN	1
	B115, B125, B135, B145	26817	Power Cord Assembly, 240V UK	1
	B116, B126, B136, B146	26818	Power Cord Assembly, 250V AUST	1
	B117, B127, B137, B147	27701	Power Cord Assembly, 230V SWISS	1
26	B1	10598	Screw, 10-24X0.62 SS	4
27	B1	10415	Washer, Conical	4
28	B1	25068	EPU Sleeve	1
29	B1	25127	Screw, 10-24X4.5 SS	4
30	B1	10973	Seal	1

SERIES B1 CONTROL PANEL DETAIL



SERIES B1 WIRING DIAGRAM



We are a proud member of Accudyne Industries, a leading global provider of precision-engineered, process-critical, and technologically advanced flow control systems and industrial compressors. Delivering consistently high levels of performance, we enable customers in the most important industries and harshest environments around the world to accomplish their missions.





FOR SALES AND SUPPORT CALL TOLL FREE 877-742-2878

Return to BurtProcess.com

LMI° is a registered trademark of Milton Roy, LLC. © 1998, 2015 Milton Roy, LLC. Specification to change without notice.

