



PRODUCT REFERENCE GUIDE

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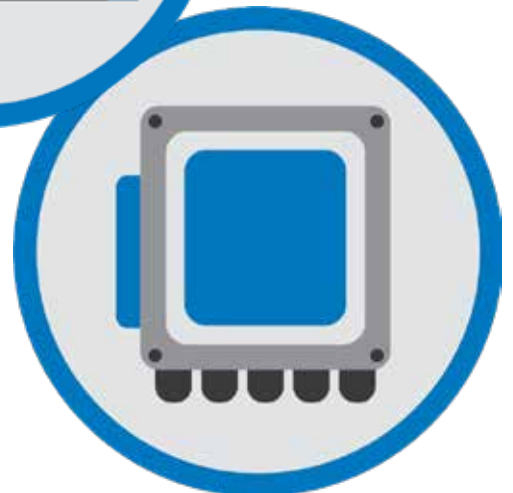
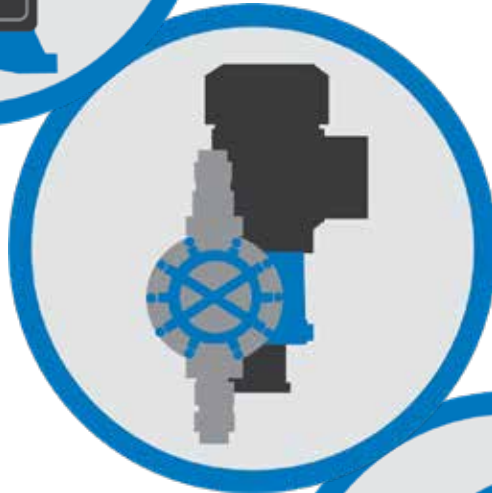


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Chemical Compatibility Chart							
	(Best)	(Common)	(Alternate)		(Compatible selections)		
Chemical	Liquid End Code	Liquid End Code	Liquid End Code		Head/Valve	Seat	Check Ball
ACETIC ACID, 5 - 10%	KTC	PHC	PTC		K, P,	T, H	C, T, H
ALUMINUM SULFATE	KTC	PVC	VVC		K, V / W, P	T, H, V	C, T, H
AMMONIA, 10%	KTC	PVC	VVC		K, V / W, P, A	T, H, V,	C, T, S, H
BROMINE	KTC	KVC	KTT		K	T, V	C, T, H
CALCIUM HYPOCHLORITE	KTC	VHC	KTT		K, V / W	T, H	C, T, H
CITRIC ACID, 10 - 20%	KTC	VVC	VHC		K, V / W, P	T, H, V	C, T, S, H
DEAE - Steamline Treatment (DIETHYLAMINE)	ATS	PTS	PTH		P, A	T	S, H
ETHYLENE GLYCOL	KTC	PHC	PVC		K, V/W, P, A	T, H, V	C, T, S, H
FERRIC CHLORIDE	KTC	PHC	PVC		K, V / W, P	T, H, V	C, T
FERRIC SULFATE	KTC	PHC	PVC		K, V / W, P	T, H, V	C, T, H
FLUOSILICIC ACID	KTT	PTT	PHT		K, V / W, P	T, V	T, H
HYDROCHLORIC ACID, 0 - 37%	KTC	PTC	PVC		K, V / W, P	T, V	C, T, H
HYDROCHLORIC ACID, 37 - 100%	KTT	PTT	PVT		K, P,	T, V	T, H
HYDROFLUOSILICIC ACID, 20%	KTT	PTT	PVT		K, V / W, P	T, H, V	T, H
HYDROGEN PEROXIDE, 0 - 30%	KTC	PHC	PVC		K, V / W, P	T, H, V	C, T, S, H
LACTIC ACID	KTC	PTC	PVC		K, V / W, P, A	T, H, V	C, T, S
NITRIC ACID, 0 - 20%	KTC	PTC	PVC		K, V / W, P, A	T, H, V	C, T, S, H
PHOSPHORIC ACID, 0 - 100%	KTC	PTC	PHC		K, V / W, P, A	T, H, V	C, T, S, H
POTASSIUM CHLORIDE	KTC	PTC	PHC		K, V / W, P	T, H, V	C, T, H
POTASSIUM PERMANGANATE	KTC	PTC	PHC		K, V / W, P, A	T, H, V	C, T, S, H
SODIUM BI-CARBONATE	KTC	PTC	PHC		K, V / W, P, A	T, H, V	C, T, S, H
SODIUM BI-SULFATE	KTC	PTC	PHC		K, V / W, P, A	T, H, V	C, T, S
SODIUM BI-SULFITE	KTC	PTC	PVC		K, V / W, P, A	T, H, V	C, T, S
SODIUM CARBONATE	KTC	PTC	PVC		K, V / W, P, A	T, H, V	C, T, S, H
SODIUM HYDROXIDE, 0 - 50%	KTC	PHC	PTC		K, V / W, P, A	T, H	C, T, S, H
SODIUM HYPOCHLORITE	KTC	VVC	VTC		K, V / W	T, H, V	C, T, H
SODIUM NITRATE	KTC	PTC	PVC		K, V / W, P, A	T, H, V	C, T, S, H
SODIUM SILICATE	KTC	PHC	PTC		K, V / W, P, A	T, H, V	C, T, S, H
SODIUM SULFATE	KTC	PHC	PTC		K, V / W, P, A	T, H, V	C, T, S, H
SODIUM SULFIDE	KTC	PHC	PTC		K, V / W, P, A	T, H, V	C, T, S,
SULFURIC ACID, 0 - 10%	KTC	PTC	PVC		K, V / W, P	T, V	C, T
SULFURIC ACID, 10 - 75%	KTC	PTC	PVC		K, V / W, P	T, V	C, T
SULFURIC ACID, 95 - 100%	KTC	KTC	KVC		K	T, V	C, T

PULSAtron Wet-End Code Selection Guide

Head & Fittings

A	=	316 Stainless Steel (All models except H8)
K	=	PVDF (Kynar) (Consult factory for J7, H8 models)
P	=	GFPPPL (Polypropylene)
V	=	PVC (Poly Vinyl Chloride) (for models rated < 150 psi excluding J7, K7, H7, H8)
W	=	PVC (for models > 150 psi and J7, K7, H7, H8)

Seats

H	=	CSPE (150 psi max.)
T	=	TFE (not available with TFE ball over 150 psi)
V	=	Viton (150 psi max.)

Balls

C	=	Ceramic
H	=	Alloy C (Hastelloy)
S	=	316 Stainless Steel
T	=	TFE (not available with TFE seat over 150 psi)

CSPE is generic formulation of Hypalon, a registered trademark of E.I. DuPont Co.

Viton is a registered trademark of E.I. DuPont Company.

Connection Codes

Code	Connect Type	Suction	Discharge	Spring	GPH Flow Limitations-125 SPM	GPH Flow Limitations-250 SPM	Viscosity	Other Factors
2	Piping	.25" FNPT	.25" FNPT		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	No Bleed Valve
4	Piping	.25" FNPT	.25" FNPT		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	No Bleed Valve
6	Piping	.25" FNPT	.25" FNPT	Yes	Up to 10	NA	less than 10,000 cps	No Bleed Valve
8	Piping	.50" FNPT	.50" FNPT	Yes	Up to 25	NA	less than 10,000 cps	No Bleed Valve
C	Piping	.50" FNPT	.50" FNPT		25	50	1000 up to 3000 cps w/ SS balls	No Bleed Valve
G	Piping	.25" FNPT	.25" FNPT	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	No Bleed Valve
I	Piping	.50" MNPT	.50" MNPT	Yes	Up to 10	NA	less than 10,000 cps	No Bleed Valve
L	Piping	.50" MNPT	.50" MNPT		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	No Bleed Valve
X	Piping	.50" MNPT	.50" MNPT		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	No Bleed Valve
1	Tubing	.25" x .38"	.25" x .38"		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
3	Tubing	.38" x .50"	.38" x .50"		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	
5	Tubing	.50" x .75"	.38" x .50"	Yes	Up to 10	NA	less than 10,000 cps	
7	Tubing	.50" x .75"	.50" FNPT	Yes	Up to 25	NA	less than 10,000 cps	No Bleed Valve
9	Tubing	.25" x .38"	.25" x .38"	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	Degas Head/No Bleed Valve
A	Tubing	.38" x .50"	.38" x .50"		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
B	Tubing	.50" x .75"	.50" x .75"		25	50	1000 up to 3000 cps w/ SS balls	No Bleed Valve
D	Tubing	.25" x .38"	.25" x .38"	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
E	Tubing	.38" x .50"	.38" x .50"	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
F	Tubing	.38" x .50"	.38" x .50"	Yes	1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	Not Available In PVDF
H	Tubing	.25" x .38"	.25" x .38"		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	
J	Tubing	.25" x .38"	.25" x .38"		0 - 1.04	0-2.08	1000 up to 3000 cps w/ SS balls	
K	Tubing	.50" x .75"	.50" x .75"	Yes	1.88 - 25 (<50 psi)	NA	less than 10,000 cps	No Bleed Valve
Metric Connections					LPH Flow Limitations	LPH Flow Limitations		
M	Piping	G 1/2 A	G 1/2 A		6.15 - 37.85	12.3-75.7	1000 up to 3000 cps w/ SS balls	
R	Piping	G 1/2 A	G 1/2 A		0 - 7.10	0-14.2	1000 up to 3000 cps w/ SS balls	
P	Tubing	4 x 6 mm	4 x 6 mm		0 - 3.94	0-7.88	1000 up to 3000 cps w/ SS balls	
S	Tubing	6 x 8 mm	6 x 8 mm		> 18.93	> 37.86	1000 up to 3000 cps w/ SS balls	
T	Tubing	6 x 8 mm	6 x 8 mm		0 - 7.10	0-14.2	1000 up to 3000 cps w/ SS balls	Degas Head/No Bleed Valve
U	Tubing	6 x 8 mm	6 x 8 mm		0 - 7.10	0-14.2	1000 up to 3000 cps w/ SS balls	
V	Tubing	12 x 19 mm	12 x 19 mm		> 29.96	>59.92	1000 up to 3000 cps w/ SS balls	No Bleed Valve
W	Tubing	8 x 12 mm	8 x 12 mm		3.94 - 37.85	7.88-75.7	1000 up to 3000 cps w/ SS balls	
Y	Tubing	9 x 12 mm	9 x 12 mm		0 - 7.10	0-14.2	1000 up to 3000 cps w/ SS balls	

- Pumps ranging from 0.25 gph (0.9 lph) to 0.90 gph (3.4 lph) with the stainless steel ball option ("S" in the 9th digit of the model number) must select a connection code with a spring.
- Pumps less than or equal to .25 gph (0.9 lph) require a connection code with a spring and must use a ceramic ball in place of stainless steel.
- Stainless steel head assemblies are only available in piping connections.
- TFE balls in the check valve, you will probably need to use a spring-loaded connection.
- Higher viscosity fluids (>3000 cps) require larger connection types and spring-loaded valves. Medium viscosity fluids (1000 to 3000 cps) can be pumped without the spring-loaded valves but you must **use SS balls with these connections in order for the balls to seat properly in the valve.**
- Degassing head available on PULSAtron pumps with volumes <44GPD & pressures <150PSI.

PULSAtron Series MP Selection Guide

MODELS:	K2	= 0.13 gph / 3 gpd (0.5 lph) max pres.: 300 PSI (21 BAR)
	B2	= 0.21 gph / 5 gpd (0.8 lph) max pres.: 250 PSI (17 BAR)
	D3	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 250 PSI (17 BAR)
	F4	= 0.85 gph / 20 gpd (3.2 lph) max pres.: 250 PSI (17 BAR)
	H4	= 1.70 gph / 41 gpd (6.4 lph) max pres.: 250 PSI (17 BAR)
	A2	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR)
	B3	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR)
	D4	= 0.90 gph / 22 gpd (3.4 lph) max pres.: 150 PSI (10 BAR)
	G4	= 1.75 gph / 42 gpd (6.6 lph) max pres.: 150 PSI (10 BAR)
	K5	= 2.50 gph / 60 gpd (9.5 lph) max pres.: 150 PSI (10 BAR)
	H5	= 3.15 gph / 76 gpd (11.9 lph) max pres.: 150 PSI (10 BAR)
	A3	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR)
	K3	= 0.60 gph / 14 gpd (2.3 lph) max pres.: 100 PSI (7 BAR)
	B4	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR)
	E4	= 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR)
	G5	= 4.00 gph / 96 gpd (15.1 lph) max pres.: 100 PSI (7 BAR)
	H6	= 5.00 gph / 120 gpd (18.9 lph) max pres.: 100 PSI (7 BAR)
	K7	= 8.00 gph / 192 gpd (30.3 lph) max pres.: 50 PSI (3.3 BAR)
	H7	= 10.0 gph / 240 gpd (37.9 lph) max pres.: 35 PSI (2.4 BAR)
	H8	= 21.0 gph / 504 gpd (79.5 lph) max pres.: 20 PSI (1.3 BAR)

CONTROLS:	T	= Signal Level Output Relay
	K	= Power Level Output Relay

ELECTRICAL:	A	= 115 Volt / 50-60Hz
	1	= 115 Volt / 50-60Hz (without agency approvals)
	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS:	PTC	= GFPP / TFE / Ceramic
Pump Head & Fittings/Seats & O-rings/Balls	KTC	= PVDF / TFE / Ceramic (not available on H8)
	VHC	= PVC / CSPE / Ceramic (not available on H7, H8, K7)
	VTC	= PVC / TFE / Ceramic (models <= 150 psi excluding H7, H8, K7)
	WTC	= PVC / TFE / Ceramic (models > 150 psi and H7, H8, K7)
	VVC	= PVC / Viton / Ceramic (not available on H8)
	ATS	= 316 S.S. / TFE / 316 S.S. (must use FNPT piping connection) (not available on H8)

See page 6 for additional liquid end materials.

CONNECTION SIZES:	1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
	3	= Tubing .38" I.D. x .50" O.D. / .38" Ball, 1.63 - 10 GPH
	9	= Degas Head: .25" I.D. x .38" O.D. / 0-1.83 GPH
	J	= Tubing, .25" I.D. x .38" O.D. / .19 Ball; 0 - 1.04 GPH
	METRIC:	
	M	= G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH
	R	= G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH
	Y	= 9 x 12mm, .25" Ball, 0 - 7.10 LPH

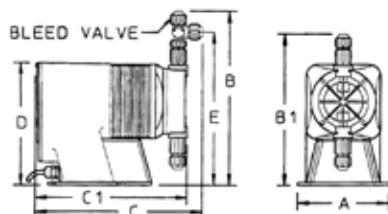
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV Series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

SUFFIX CODES:	XXX	= No Additional Options
	130	= PVDF Tubing
	500	= Five Function Valve
	520	= Five Function Degas Valve
	FVE	= Flow Verification / EPDM (not available on pumps greater than 100 psi or H8 pump)
	FVV	= Flow Verification / Viton (not available on pumps greater than 100 psi or H8 pump)
	ITS	= 15 gal. ITS Tank System (ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, H8, J7, K7 models)
	CZ_XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LMB3TA-PTC1-XXX'

Dimensions



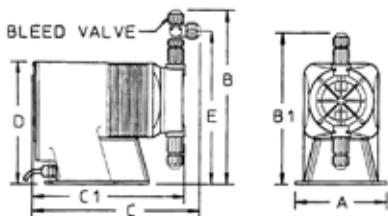
Series MP Dimensions (inches)																	
Model No.	A	B	B1	C	C1	D	E	Shpg Wt	Model No.	A	B	B1	C	C1	D	E	Shpg Wt
LMA2	5.4	10.3	-	10.8	-	7.5	8.9	13	LMH4	6.2	10.9	-	11.2	-	8.2	9.5	21
LMA3	5.4	10.6	-	10.7	-	7.5	9.2	13	LMH5	6.2	11.3	-	11.2	-	8.2	9.9	21
LMB2	5.4	10.3	-	10.8	-	7.5	8.9	13	LMH6	6.2	11.3	-	11.2	-	8.2	9.9	21
LMB3	5.4	10.6	-	10.7	-	7.5	9.2	13	LMH7	6.1	11.7	-	11.2	-	8.2	10.3	21
LMB4	5.4	10.6	-	10.7	-	7.5	9.2	13	LMH8*	6.1	-	10.9	-	10.6	8.2	-	25
LMD3	5.4	10.6	-	11.2	-	7.5	9.2	15	LMK2	5.4	10.3	-	10.8	-	7.5	8.9	13
LMD4	5.4	10.6	-	11.2	-	7.5	9.2	15	LMK3	5.4	10.6	-	10.7	-	7.5	9.2	13
LME4	5.4	10.6	-	11.2	-	7.5	9.2	15	LMK5	5.4	10.9	-	11.7	-	7.5	9.5	18
LMF4	5.4	10.6	-	11.7	-	7.5	9.2	18	LMK7	6.1	11.7	-	11.2	-	8.2	10.3	21
LMG4	5.4	10.6	-	11.7	-	7.5	9.2	18									

NOTE: Inches X 2.54 = cm / * the LMH8 is designed without a bleed valve available

PULSAtron Series E Plus Selection Guide

MODELS:		K2 = 0.13 gph / 3 gpd (0.5 lph) max pres.: 300 PSI (21 BAR) B2 = 0.21 gph / 5 gpd (0.8 lph) max pres.: 250 PSI (17 BAR) D3 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 250 PSI (17 BAR) F4 = 0.85 gph / 20 gpd (3.2 lph) max pres.: 250 PSI (17 BAR) H4 = 1.70 gph / 41 gpd (6.4 lph) max pres.: 250 PSI (17 BAR) A2 = 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR) B3 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR) D4 = 0.90 gph / 22 gpd (3.4 lph) max pres.: 150 PSI (10 BAR) G4 = 1.75 gph / 42 gpd (6.6 lph) max pres.: 150 PSI (10 BAR) K5 = 2.50 gph / 60 gpd (9.5 lph) max pres.: 150 PSI (10 BAR) H5 = 3.15 gph / 76 gpd (11.9 lph) max pres.: 150 PSI (10 BAR) A3 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR) K3 = 0.60 gph / 14 gpd (2.3 lph) max pres.: 100 PSI (7 BAR) B4 = 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR) E4 = 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR) G5 = 4.00 gph / 96 gpd (15.1 lph) max pres.: 100 PSI (7 BAR) H6 = 5.00 gph / 120 gpd (18.9 lph) max pres.: 100 PSI (7 BAR) K7 = 8.00 gph / 192 gpd (30.3 lph) max pres.: 50 PSI (3.3 BAR) H7 = 10.0 gph / 240 gpd (37.9 lph) max pres.: 35 PSI (2.4 BAR) J7 = 10.0 gph / 240 gpd (37.9 lph) max pres.: 80 PSI (5.5 BAR) H8 = 25.0 gph / 600 gpd (94.6 lph) max pres.: 30 PSI (2 BAR)
CONTROLS:		S = Manual On/Off M = 4-20mADC Direct, w/ Stop E = External/Remote Pacing, w/ Stop
ELECTRICAL:		A = 115 Volt / 50-60Hz 1 = 115 Volt / 50-60Hz (without agency approvals) B = 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug 2 = 230 Volt / 50-60Hz (without agency approvals)
LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls		PTC = GFPP / TFE / Ceramic PTT = GFPP / TFE / TFE KTC = PVDF / TFE / Ceramic (not available on H8) VHC = PVC / CSPE / Ceramic (not available on H7, H8, J7, K7) VTC = PVC / TFE / Ceramic (models <= 150 psi excluding H7, H8, J7, K7) WTC = PVC / TFE / Ceramic (models > 150 psi and H7, H8, J7, K7) ATS = 316 S.S. / TFE / 316 S.S. (must use FNPT piping connection) (not available on H8)
See page 6 for additional liquid end materials.		
CONNECTION SIZES:		1 = Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH 3 = Tubing .38" I.D. x .50" O.D. / .38" Ball, 1.63 - 10 GPH 4 = Piping .25" FNPT / .38" Ball, 1.63 - 10 GPH B = Tubing .50" I.D. x .75" O.D. / .50" Ball, 25 GPH only METRIC: M = G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH R = G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH Y = 9 x 12mm, .25" Ball, 0 - 7.10 LPH
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV Series pumps): 4" Suction, 4" Return, 8" discharge tubing, footvalve/strainer assy., injection valve and bleed valve.		
SUFFIX CODES:		XXX = No Additional Options 130 = PVDF Tubing 500 = Five Function Valve 520 = Five Function Degas Valve ITS = 15 gal. ITS Tank System (ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, H8, J7, K7 models) CZ_XXX = CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)
See pages 8 & 9 for additional information and specs.		
A completed model number should look like 'LPB3SA-PTC1-XXX'		

Dimensions



Series E Plus Dimensions (inches)																	
Model No.	A	B	B1	C	C1	D	E	Shpg Wt	Model No.	A	B	B1	C	C1	D	E	Shpg Wt
LPA2	5.4	10.3	-	10.8	-	7.5	8.9	13	LPH4	6.2	10.9	-	11.2	-	8.2	9.5	21
LPA3	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH5	6.2	11.3	-	11.2	-	8.2	9.9	21
LPB2	5.4	10.3	-	10.8	-	7.5	8.9	13	LPG5	6.2	11.3	-	11.2	-	8.2	9.9	21
LPB3	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH6	6.2	11.3	-	11.9	-	8.2	9.9	21
LPB4	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH7	6.1	11.7	-	11.9	-	8.2	10.3	21
LPD3	5.4	10.6	-	11.2	-	7.5	9.2	15	LPH8*	6.1	-	10.9	-	11.3	8.2	-	26
LPD4	5.4	10.6	-	11.2	-	7.5	9.2	15	LPK2	5.4	10.3	-	10.8	-	7.5	8.9	13
LPE4	5.4	10.6	-	11.2	-	7.5	9.2	15	LPK3	5.4	10.6	-	10.7	-	7.5	9.2	13
LPF4	5.4	10.6	-	11.7	-	7.5	9.2	18	LPK5	5.4	10.9	-	11.7	-	7.5	9.5	18
LPG4	5.4	10.6	-	11.7	-	7.5	9.2	18	LPK7	6.1	11.7	-	11.2	-	8.2	10.3	21
									LPJ7	6.1	10.0	-	10.7	-	-	-	21

NOTE: Inches X 2.54 = cm /* the LPH8 is designed without a bleed valve available

PULSAtron Series HV Selection Guide

MODELS:	B3	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR)
	F4	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 150 PSI (10 BAR)
	G4	= 2.00 gph / 48 gpd (7.6 lph) max pres.: 110 PSI (7 BAR)
	G5	= 4.00 gph / 96 gpd (15.1 lph) max pres.: 110 PSI (7 BAR)
	H7	= 10.0 gph / 240 gpd (37.9 lph) max pres.: 80 PSI (5.6 BAR)

CONTROLS:	S	= Manual On/Off
	M	= 4-20mADC Direct, w/ Stop
	E	= External/Remote Pacing, w/ Stop

ELECTRICAL:	A	= 115 Volt / 50-60Hz
	1	= 115 Volt / 50-60Hz (without agency approvals)
	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls	PTT	= GFPPL / TFE / TFE - LVB3 & F4 only
	PTS	= GFPPL / TFE / 316 SS - LVG4, G5 & H7 only
	WTS	= PVC / TFE / 316 SS - LVH7 only
	VTT	= PVC / TFE / TFE - LVB3 & F4 only
	VTs	= PVC / TFE / 316 SS - LVG5 & G4 No other liquid end materials available.

CONNECTION SIZES:	5	= Tubing (S) .50" I.D. x .75" O.D. / .38" I.D. x .50" O.D. - LVB3 & F4 only
	K	= Tubing .50" I.D. x .75" O.D. - LVG4, G5 & H7 only

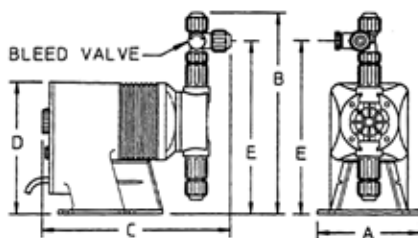
No other connection sizes available. Pumps come with 4' suction tubing and 8' discharge tubing. No bleed valve available.

SUFFIX CODES	XXX	= No Additional Options
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See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LVB3SA-VTT5-XXX'

Dimensions



Series HV Dimensions (inches)					
Model No.	A	B	C	D	Shipping Weight
LVB3	5.4	9.3	9.5	7.5	13
LVF4	5.4	10.8	10.8	7.5	18
LVG4	5.4	9.5	10.6	7.5	18
LVG5	5.4	10.8	10.8	7.5	18
LVH7	6.1	11.5	11	8.2	25

NOTE: Inches X 2.54 = cm

PULSAtron Series E Selection Guide

MODELS:	12	= 0.21 gph / 5 gpd (0.8 lph) max pres.: 250 PSI (17 BAR)
	33	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 250 PSI (17 BAR)
	02	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR)
	13	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR)
	34	= 0.90 gph / 22 gpd (3.4 lph) max pres.: 150 PSI (10 BAR)
	03	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR)
	14	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR)
	44	= 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR)

CONTROLS: S = No Options Available

ELECTRICAL:

A	= 115 Volt / 50-60Hz
1	= 115 Volt / 50-60Hz (without agency approvals)
B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS:

PHC	= GFPP / CSPE / Ceramic
PTC	= GFPP / TFE / Ceramic
KTC	= PVDF / TFE / Ceramic (not available on J7 or H8)
VHC	= PVC / CSPE / Ceramic (not available on H7, H8, J7, K7)
VTC	= PVC / TFE / Ceramic (models <= 150 psi excluding H7, H8, J7, K7)
WTC	= PVC / TFE / Ceramic (models > 150 psi and H7, H8, J7, K7)
ATS	= 316 S.S. / TFE / 316 S.S. (must use FNPT piping connection) (not available on J7 or H8)

See page 6 for additional liquid end materials.

CONNECTION SIZES:

1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
3	= Tubing .38" I.D. x .50" O.D. / .38" Ball, 1.63 - 10 GPH
METRIC:	
M	= G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH
P	= 4 x 6mm, .25" Ball, 0 - 3.94 LPH

Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV SAseries pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

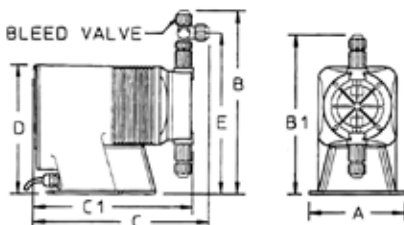
SUFFIX CODES:

XXX	= No Additional Options
130	= PVDF Tubing
500	= Five Function Valve
520	= Five Function Degas Valve
ITS	= 15 gal. ITS Tank System (ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, H8, J7, K7 models)
CZ XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LE33SA-PTC1-XXX'

Dimensions



Series E Dimensions (inches)								
Model No.	A	B	B1	C	C1	D	E	Shipping Weight
LE02	5	9.6	-	9.5	-	6.4	8.2	7
LE03	5	9.8	-	9.5	-	6.4	8.4	7
LE12	5	9.6	-	9.5	-	6.4	8.2	7
LE13	5	9.8	-	9.5	-	6.4	8.4	7
LE14	5	9.8	-	9.5	-	6.4	8.4	7
LE33	5.4	10.6	-	11.2	-	7.5	9.2	12
LE34	5.4	10.6	-	11.2	-	7.5	9.2	12
LE44	5.4	10.6	-	11.2	-	7.5	9.2	12

NOTE: Inches X 2.54 = cm

PULSAtronic Series E-DC Selection Guide

MODELS:	02	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR)
	13	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR)
	14	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR)
	44	= 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR)

CONTROLS: **S** = No Options Available

ELECTRICAL: **4** = 12V DC

LIQUID END MATERIALS:

PHC	= GFPP / CSPE / Ceramic
PTC	= GFPP / TFE / Ceramic
PVC	= GFPP / Viton / Ceramic
VTC	= PVC / TFE / Ceramic

Pump Head & Fittings/Seats & O-rings/Balls

See page 6 for additional liquid end materials.

CONNECTION SIZES:

1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
J	= Tubing .25" I.D. x .38" O.D. / 19" Ball, 0 - 1.04 GPH
METRIC:	
M	= G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH
R	= G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH

Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV Series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

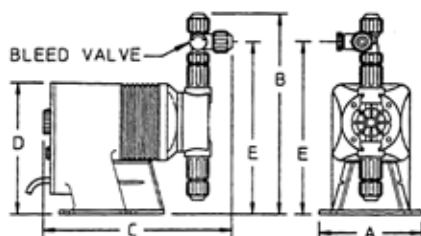
SUFFIX CODES:

XXX	= No Additional Options
130	= PVDF Tubing
500	= Five Function Valve
520	= Five Function Degas Valve
ITS	= 15 gal. ITS Tank System
CZ_XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LS02S4-PTC1-XXX'

Dimensions



Series E-DC Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LS02	5.0	9.6	9.6	6.5	8.2	10
LS13	5.0	9.9	9.5	6.5	8.5	10
LS14	5.0	9.9	9.5	6.5	8.5	10
LS44	5.0	10.6	11.4	7.5	9.2	15

NOTE: Inches X 2.54 = cm

PULSAtron Series A Plus Selection Guide

MODELS:

Product Code	Flow Rate			Pressure Rating ¹		Stroke Rate	Standard Valve	Max. Viscosity
	GPD	GPH	LPH	PSI	BAR	(SPM)	Size	(cps)
S2	12	0.50	1.9	250	17	250	J (TFE Only)	1,000
S3	33	1.38	5.2	150	10		1	
S4	58	2.42	9.1	100	7			
C2	6	0.25	0.9	250	17	125	J (TFE only)	
C3	10	0.42	1.6					
02	6	0.25	0.9					
03	12	0.50	1.9	150	10			
04	24	1.00	3.8					
64	30	1.25	4.7					
C4	48	2.00	7.6	50	3.3		1	

CONTROLS:

S	Manual Control	100:1 Turndown	10:1 Stroke Length 10:1 Frequency
E	External Pace w/ Auto/Manual Switch		
P	Stop Function Option		
Q	External Pace w/ Stop (125 SPM only)		
X	Manual Control (S2, S3 & S4 sizes only)	2000:1 Turndown	10:1 Stroke Length 100:1 Frequency

ELECTRICAL:

A	115 VAC, 60Hz
B	230 VAC, 50-60Hz, 1 Ph, 6' (2m) cord with 3 prong US plug
1	115 VAC, 60Hz less Agency Approvals
2	230 VAC, 50-60Hz, 1 Ph, 6' (2m) cord, no plug, less Agency

LIQUID END MATERIALS: Head & Valves / Seats & O-Rings / Check Balls

PHC	GFPPL / CSPE / Ceramic (150 PSI Max) ¹
PTC	GFPPL / TFE / Ceramic
VTC	PVC / TFE / Ceramic (150 PSI Max) ¹
WTC	PVC / TFE / Ceramic (models > 150 PSI Max); For use on S2, C2, C3
KTC	PVDF / TFE / Ceramic
VVC	PVC / Viton / Ceramic (Not available with J Valve) (150 PSI Max) ¹
VHC	PVC / CSPE / Ceramic (Not available with J Valve) (150 PSI Max) ¹
Other	See Page 6 for additional materials of construction

CONNECTION SIZES:

J	Tubing .25" I.D. x .38" O.D. Standard for pumps from 0 - 33 GPD
1	Tubing .25" I.D. x .38" O.D. Standard for pumps from 20 - 45 GPD
3	Tubing .38" I.D. x .50" O.D. Standard for pumps from 45 - 240 GPD
9	Degas Head: Vent Tubing .25" I.D. x .38" O.D. (0-150 PSI pumps only)
Metric	
R	G 1/2 A Threads, .25" Ball, 0-7.1 LPH
Y	Tubing 9 x 12mm, .25" Ball, 0-7.1 LPH
Other	See Page 7 for additional connection options

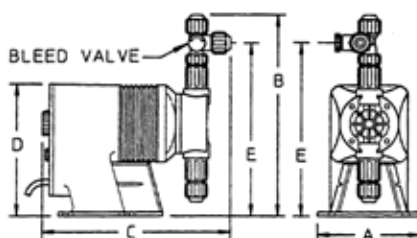
SUFFIX CODES:

XXX	Standard Pump - No Options
130	PVDF Tubing
500	Five Function Valve
520	Five Function Degassing Valve
ITS	15 gal. ITS Tank System
CZ_XXX	CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

A completed model number should look like 'LB03SA-PTCJ-XXX'

Note 1: Pumps with rated pressure above 150 PSI will be de-rated to 150 PSI Max. when selecting these valve options.

Dimensions



Series A PLUS Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LB02 / S2	5.0	9.6	9.5	6.5	8.2	10
LBC2	5.0	9.9	9.5	6.5	8.5	10
LBC3	5.0	9.9	9.5	6.5	8.5	10
LB03 / S3	5.0	9.9	9.5	6.5	8.5	10
LB04 / S4	5.0	9.9	9.5	6.5	8.5	10
LB64	5.0	9.9	9.5	6.5	8.5	10
LBC4	5.0	9.9	9.5	6.5	8.5	10

NOTE: Inches X 2.54 = cm

PULSAtron Series T7 Selection Guide

MODELS:	13	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR)
	14	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR)
	64	= 1.25 gph / 30 gpd (4.7 lph) max pres.: 100 PSI (7 BAR)
	44	= 2.00 gph / 48 gpd (7.6 lph) max pres.: 50 PSI (3.3 BAR)

CONTROLS:	B	= No Options Available
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ELECTRICAL:	A	= 115 Volt / 50-60Hz
	1	= 115 Volt / 50-60Hz (without agency approvals)
	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS:	PHC	= GFPPL / CSPE / Ceramic
	PTC	= GFPPL / TFE / Ceramic
Pump Head & Fittings/Seats & O-rings/Balls	KTC	= PVDF / TFE / Ceramic
	VHC	= PVC / CSPE / Ceramic
	VTC	= PVC / TFE / Ceramic

See page 6 for additional liquid end materials.

CONNECTION SIZES:	1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
	9	= Degas Head: .25" I.D. x .38" O.D. / 0-1.83 GPH
	J	= Tubing, .25" I.D. x .38" O.D. / .19 Ball; 0 - 1.04 GPH
	METRIC:	
	Y	= 9 x 12mm, .25" Ball, 0 - 7.10 LPH
	T	= 6 x 8mm, Degassing (Note: has 8 mm suction), 0 - 7.10 LPH

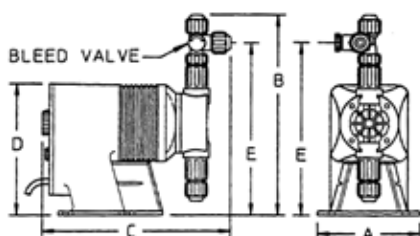
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV Series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

SUFFIX CODES:	XXX	= No Additional Options
	130	= PVDF Tubing
	500	= Five Function Valve
	520	= Five Function Degas Valve
	ITS	= 15 gal. ITS Tank System

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LC13BA-PTC1-XXX'

Dimensions



Series T7 Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LC13BA	5.0	9.6	9.5	6.5	8.2	10
LC14BA	5.0	9.9	9.5	6.5	8.5	10
LC64BA	5.0	9.9	9.5	6.5	8.5	10
LC44BA	5.4	10.6	11.3	7.4	9.2	11.8

NOTE: Inches X 2.54 = cm

PULSAtronic Series C Plus Selection Guide

MODELS:	02	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 80 PSI (5.6 BAR)
	03	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 80 PSI (5.6 BAR)
	04	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 80 PSI (5.6 BAR)
	54	= 1.25 gph / 30 gpd (4.7 lph) max pres.: 80 PSI (5.6 BAR)

CONTROLS:	S	= Manual
	E	= External Pacing w/ Auto/Manual Switch
	G	= External Pacing w/ Prime Button
	P	= Stop Function Option

ELECTRICAL:	A	= 115 Volt / 50-60Hz
	1	= 115 Volt / 50-60Hz (without agency approvals)
	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS:	PHC	= GFPPL / CSPE / Ceramic
Pump Head & Fittings/Seats & O-rings/Balls	PTC	= GFPPL / TFE / Ceramic
	KTC	= PVDF / TFE / Ceramic
	VHC	= PVC / CSPE / Ceramic
	VTC	= PVC / TFE / Ceramic

See page 6 for additional liquid end materials.

CONNECTION SIZES:	1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
	9	= Degas Head: .25" I.D. x .38" O.D. / 0-1.83 GPH
	A	= Tubing .38" I.D. x .50" O.D. / .25" Ball, 0 - 1.88 GPH
	J	= Tubing, .25" I.D. x .38" O.D. / .19" Ball; 0 - 1.04 GPH
	METRIC:	
	R	= G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH
	Y	= 9 x 12mm, .25" Ball, 0 - 7.10 LPH

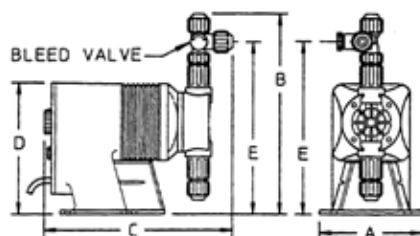
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV Series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

SUFFIX CODES:	XXX	= No Additional Options
	130	= PVDF Tubing
	500	= Five Function Valve
	520	= Five Function Degas Valve
	ITS	= 15 gal. ITS Tank System
	CZ_XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LD03SA-PTC1-XXX'

Dimensions



Series C PLUS Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LD02	5.0	9.6	9.5	6.5	8.2	10
LD03	5.0	9.9	9.5	6.5	8.5	10
LD04	5.0	9.9	9.5	6.5	8.5	10
LD54	5.0	9.9	9.5	6.5	8.5	10

NOTE: Inches X 2.54 = cm

PULSAtron Series C Selection Guide

MODELS:	02	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 80 PSI (5.6 BAR)
	03	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 80 PSI (5.6 BAR)
	04	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 80 PSI (5.6 BAR)
	54	= 1.25 gph / 30 gpd (4.7 lph) max pres.: 80 PSI (5.6 BAR)

CONTROLS:	S	= Manual
	E	= External Pacing w/ Auto/Manual Switch
	G	= External Pacing w/ Prime Button
	P	= Stop Function Option

ELECTRICAL:	A	= 115 Volt / 50-60Hz
	1	= 115 Volt / 50-60Hz (without agency approvals)
	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls	PHC	= GFPPL / CSPE / Ceramic
	PTC	= GFPPL / TFE / Ceramic
	VHC	= PVC / CSPE / Ceramic
	VTC	= PVC / TFE / Ceramic
	VVC	= PVC / Viton / Ceramic

See page 6 for additional liquid end materials.

CONNECTION SIZES:	1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
	9	= Degas Head: .25" I.D. x .38" O.D. / 0-1.83 GPH
	A	= Tubing .38" I.D. x .50" O.D. / .25" Ball, 0 - 1.88 GPH
	J	= Tubing, .25" I.D. x .38" O.D. / .19 Ball; 0 - 1.04 GPH
	METRIC:	
	P	= 4 x 6mm, .25" Ball, 0 - 3.94 LPH
	U	= 6 x 8mm, .25" Ball, 0 - 7.10 LPH

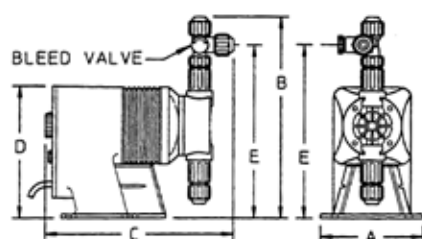
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

SUFFIX CODES:	XXX	= No Additional Options
	130	= PVDF Tubing
	500	= Five Function Valve
	520	= Five Function Degas Valve
	ITS	= 15 gal. ITS Tank System
	CZ XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LC03SA-PTC1-XXX'

Dimensions



Series C Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LC02	5.0	9.6	9.5	6.5	8.2	10
LC03	5.0	9.9	9.5	6.5	8.5	10
LC04	5.0	9.9	9.5	6.5	8.5	10
LC54	5.0	9.9	9.5	6.5	8.5	10

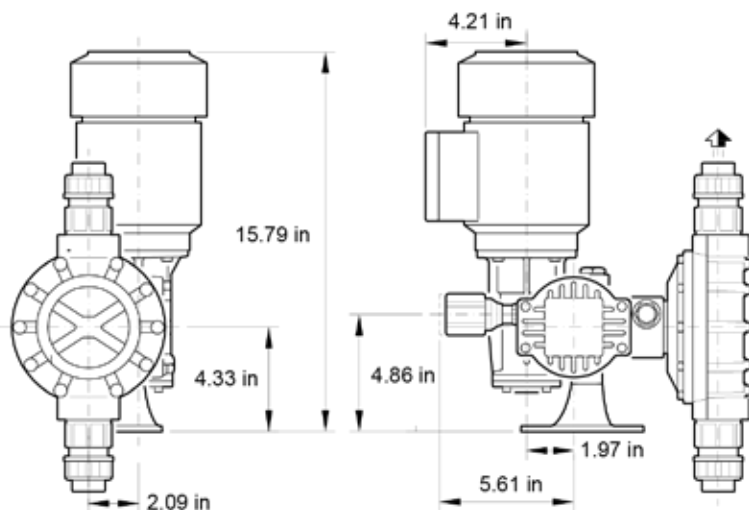
NOTE: Inches X 2.54 = cm

Dimensions

Blackline Series MD Selection Guide		MD	---	-	-	-	-	XXX
MODELS:	1A = 7 gph (26 lph) max pres.: 150 PSI (10 BAR) 1B = 14 gph (53 lph) max pres.: 150 PSI (10 BAR) 1C = 22 gph (82 lph) max pres.: 150 PSI (10 BAR) 1D = 29 gph / (111 lph) max pres.: 150 PSI (10 BAR) 1E = 35 gph / (133 lph) max pres.: 150 PSI (10 BAR) 2F = 59 gph / (225 lph) max pres.: 90 PSI (6 BAR) 2J = 79 gph / (298 lph) max pres.: 90 PSI (6 BAR) 2K = 98 gph / (371lph) max pres.: 75 PSI (5 BAR) 3G = 132 gph / (501 lph) max pres.: 75 PSI (5 BAR)							
LIQUID END Size 1A-E	KTP = PVDF Head / PTFE Valve Seat / Pyrex Valve Check Ball PPP = Glass Filled Polypropylene Head / PVC Valve Seat / Pyrex Valve Check Ball AAS = 316SS Head / 316SS Valve Seat / 316SS Valve Check Ball KMM** = PVDF Head / Incoloy 825 Valve Seat / Hastelloy C-276 Valve Check Ball							
Size 2F-K	KTP = PVDF Head / PTFE Valve Seat / Pyrex Valve Check Ball PPP = Glass Filled Polypropylene Head / PVC Valve Seat / Pyrex Valve Check Ball AAS = 316SS Head / 316SS Valve Seat / 316SS Valve Check Ball KMM** = PVDF Head / Incoloy 825 Valve Seat / Hastelloy C-276 Valve Check Ball							
Size 3G	KTP = PVDF Head / PTFE Valve Seat / Pyrex Valve Check Ball PPP = Glass Filled Polypropylene Head / PVC Valve Seat / Pyrex Valve Check Ball AAS = 316SS Head / 316SS Valve Seat / 316SS Valve Check Ball KMM** = PVDF Head / Incoloy 825 Valve Seat / Hastelloy C-276 Valve Check Ball							
VALVE CONNECTION:	N = NPT Connection							
MOTOR SELECTION:	1 = TEFC - NEMA 56C, 1P, 115/230V, 60Hz, 1/2 Hp 2 = TEFC - NEMA 56C, 3P, 230/460V, 50/60Hz, 1/2 Hp (VFD 10:1) 3 = Ex. Proof - NEMA 56C, 1P, 115/230V, 60Hz, 1/2 Hp 4 = Ex. Proof - NEMA 56C, 3P, 230/460V, 60Hz, 1/2 Hp 6 = TEFC - IEC 71, 3P, 220/380/460V, 50/60Hz, .37kW (VFD 10:1, Required for CE Approved VFD) X = No Motor - NEMA 56C Frame Ready Y = No Motor - IEC 71 Frame Ready							
VFD OPTIONS	A = No VFD C = VFD, 115/230V, NEMA 4X, IP65 Enclosure, 1 Phase, Motor 2 & 6 Only, Plus Motor Adder							
OPTIONS	XXX = No Options							

A completed model number should look like 'MD1BKTPN1A-XXX'

** For use with high concentration of Sulfuric acid and poly-alum-chloride.



Series MD Dimensions (inches)		
Model	Weight Plastic (lbs)	Weight Stainless Steel (lbs)
MD1A (NO MOTOR)	21.5	26.0
MD1B (NO MOTOR)	21.5	26.0
MD1C (NO MOTOR)	21.5	26.0
MD1D (NO MOTOR)	21.5	26.0
MD1E (NO MOTOR)	21.5	26.0
MD2F (NO MOTOR)	26.0	37.0
MD2J (NO MOTOR)	26.0	37.0
MD2K (NO MOTOR)	26.0	37.0
MD3G (NO MOTOR)	29.0	46.0
MD1A W/VFD & MOTOR	67.0	71.5
MD1B W/VFD & MOTOR	67.0	71.5
MD1C W/VFD & MOTOR	67.0	71.5
MD1D W/VFD & MOTOR	67.0	71.5
MD1E W/VFD & MOTOR	67.0	71.5
MD2F W/VFD & MOTOR	71.5	82.5
MD2J W/VFD & MOTOR	72.5	83.5
MD2K W/VFD & MOTOR	73.5	84.5
MD3G W/VFD & MOTOR	74.5	91.5

Chem-Tech XP Series Selection Guide

	Pump Size	Flow	Pressure Rating - PSI (Bar)				Tube Size	Speed (RPM)	XP	-	-	-	-
			Single Head Options			Duplex							
			'H' Tube	'L' Tube	'F' Tube	'L' Tube							
MODELS:	XP004	4 GPD (0.6 LPH)				80 (5.5)	2	30					
	XP007	7 GPD (1.1 LPH)	125 (8.6)	80 (5.5)	60 (4.1) ¹			50					
	XP009	9 GPD (1.4 LPH)				70 (4.8)	3	30					
	XP015	15 GPD (2.4 LPH)	110 (7.6) ¹	70 (4.8)	50 (3.4) ¹			50					
	XP014	14 GPD (2.3 LPH)				50 (3.4)	4	30					
	XP023	23 GPD (3.6 LPH)	100 (5.9) ¹	50 (3.4)	40 (2.8) ¹			50					
	XP030	30 GPD (4.7 LPH)	80 (5.5)	40 (2.8)		40 (2.8)	6	30					
	XP050	50 GPD (7.9 LPH)						50					
	XP048	48 GPD (7.5 LPH)				25 (1.7)	8	30					
	XP080	80 GPD (12.6 LPH)		25 (1.7)				50					
ELECTRICAL:	L	115V, 60Hz											
	H	230V, 50/60Hz											
	R	230V, 50Hzwith Grounded Right Angle European Plug											
Note: 50Hz pumps will produce 5/6 of the rated flow													
DRIVE:	F	Fixed Rate, On / Off Only											
	A	Adjustable 20:1 Turndown, On / Off with Current Interrupter Timer											
	G	Duplex Head - Fixed Rate, On / Off Only, 'L' Tube											
	B	Duplex Head - Adjustable, On / Off with Current Interrupter Timer, 'L' Tube											
	1	Pulse Input, .1 to 1 Second Timer											
	2	Pulse Input, .2 to 10 Second Timer											
	3	Pulse Input, 1 to 60 Second Timer											
	4	Dry Contact Input - Fixed Rate Pump											
	5	Dry Contact Input - Adjustable Pump											
	6	Flow Switch Activated with 3/4" NPT Flow Switch - Fixed Rate Pump											
TUBING:	L	Low Pressure Norprene with 1/4" Tube Fittings											
	H	High Pressure Norprene with 1/4" Tube Fittings											
	3	Low Pressure Norprene with 3/8" Tube Fittings											
	4	High Pressure Norprene with 3/8" Tube Fittings											
	F	Fluran, Acid resistant tubing with 1/4" Tube Fittings (Doesnot include strainer & injector accessories)											
	G	Fluran, Acid resistant tubing with 3/8" Tube Fittings (Doesnot include strainer & injector accessories)											
SYSTEM:	X	Pump Only											
	1	15 Gallon Tank System											
	3	35 Gallon Tank System											
	T	15 Gallon ITS System											

A completed model should look like "XP030L FL X"

A completed model should look like "XP030LFLX"

Chem-Tech XPV Series Selection Guide

Chem Tech XP V Series Selection Guide									
MODELS:	Pump Size	Flow	Pressure Rating - PSI (Bar)				Tube Size	Speed (RPM)	XP
			Single Head Options		Duplex				
			'H' Tube	'L' Tube	'F' Tube	'L' Tube			
	XP008	8 GPD (1.3 LPH)	125 (8.6)	80 (5.5)	60 (4.1)	80 (5.5)	2	65 Max.	
	XP017	17 GPD (2.7 LPH)	110 (7.6)	70 (4.8)	50 (3.4) ¹	70 (4.8)	3		
	XP033	33 GPD (5.2 LPH)	100 (5.9)	50 (3.4)	40 (2.8) ²	50 (3.4)	4		
	XP055	55 GPD (8.7 LPH)	80 (5.5)	40 (2.8)		40 (2.8)	6	60 Max.	
	XP100	100 GPD (15.8 LPH)		25 (1.7)		25 (1.7)	8		
ELECTRICAL:	L	115V, 60Hz							
	H	230V, 60/50Hz							
	R	230V, 60/50Hz with Grounded Right Angle European Plug							
DRIVE:	V	Variable Input Control with I/O Cable							
	G	Duplex Head - Low Pressure Norprene with 1/4" Tube Fitting							
TUBING:	L	Low Pressure Norprene with 1/4" Tube Fittings							
	H	High Pressure Norprene with 1/4" Tube Fittings							
	3	Low Pressure Norprene with 3/8" Tube Fittings							
	4	High Pressure Norprene with 3/8" Tube Fittings							
	F	Fluran, Acid resistant tubing with 1/4" Tube Fittings (Doesnot include strainer & injector accessories)							
	G	Fluran, Acid resistant tubing with 3/8" Tube Fittings (Doesnot include strainer & injector accessories)							
SYSTEM:	X	Pump Only							
	1	15 Gallon Tank System							
	3	35 Gallon Tank System							
	T	15 Gallon ITS System							
A completed model should look like "XP033L V1 X"									

A completed model should look like "XP033LVLX"

¹Max flow rate is 15 GPD (2.4 LPH) with Fluran tube.

²Max flow rate is 28 GPD (4.4 LPH) with Fluran tube.

PRIME PERFORMANCE Selection Guide

MODELS:	015	= 15 gpd (2.34 lph) max pres.: 100 PSI (7 BAR)
	024	= 24 gpd (3.78 lph) max pres.: 100 PSI (7 BAR)
	030	= 30 gpd (4.72 lph) max pres.: 100 PSI (7 BAR)
	068	= 68 gpd (10.72 lph) max pres.: 60 PSI (4 BAR)
	100	= 100 gpd (15.76 lph) max pres.: 60 PSI (4 BAR)

ELECTRICAL:	XA	= 115V, 60 Hz
	XB	= 230V, 50 Hz
	XC	= 230V, 60 Hz

LIQUID END MATERIALS: Head, Fittings/ Diaph., Seats/ Balls	BAA	= PVC / CSPE / Ceramic
	BBA	= PVC / Viton / Ceramic

CONNECTION SIZES:	6	= Tubing .38" PE BLK Suction / .38" PE BLK Discharge / .38" PE BLK Return
	8	= Tubing .38" PVC Suction / .38" PE Discharge / .38" PVC Return
	7	= Tubing .50" PE BLK Suction / .50" PE BLK Discharge / .50" PE BLK Return
	9	= Tubing .44" PVC Suction / .50" PE Discharge / .44" PVC Return

SUFFIX CODES:	XXX	= Standard
	001	= Current Interrupter
	15T	= 15 gal tank w/ bulkhead for vent, level wand, safety cap & fasteners
	35T	= 35 gal tank w/ bulkhead for vent and fasteners

A complete model should look like "X024-XA-BBA9XXX"

Chem-Tech Series 100, 150 Selection Guide

MODELS:	Series 100	
	X003	= 3 gpd (0.47 lph) max pres.: 100 PSI (7 BAR)
	X007	= 7 gpd (1.00 lph) max pres.: 100 PSI (7 BAR)
	X015	= 15 gpd (2.34 lph) max pres.: 100 PSI (7 BAR)
	X024	= 24 gpd (3.78 lph) max pres.: 100 PSI (7 BAR)
	X030	= 30 gpd (4.72 lph) max pres.: 100 PSI (7 BAR)
	Series 150	
	X068	= 68 gpd (10.72 lph) max pres.: 60 PSI (4 BAR)
	X100	= 100 gpd (15.76 lph) max pres.: 60 PSI (4 BAR)

ELECTRICAL:	XA	= 115V, 60 Hz
	XC	= 230V, 60 Hz

LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls	AAA	= Clear PVC / CSPE / Ceramic
	AAB	= Clear PVC / CSPE / TFE
	ABA	= Clear PVC / Viton / Ceramic
	ABB	= Clear PVC / Viton / TFE
	ACA	= Clear PVC / TFE/Viton / Ceramic
	AHA	= Clear PVC / TFE/CSPE / Ceramic
	DAA	= PP / CSPE / Ceramic
	DAB	= PP / CSPE / TFE
	DBA	= PP / Viton / Ceramic
	DBB	= PP / Viton / TFE
	GFA	= Clear PVC / TFE / Ceramic (dbl)
	GFB	= Clear PVC / TFE / TFE (dbl)
	EFC	= 316SS / TFE / 316SS (dbl)

CONNECTION SIZES:	A	= Tubing .44" PVC Suction / .50" PE Discharge
	C	= Tubing .38" PVC Suction / .38" PE Discharge
	F	= Tubing .44" PVC Suction / .50" PE BLK Discharge
	S	= Tubing .38" PVC Suction / .38" PE BLK Discharge
	X w/ 316	= .25" FNPT Suction / .25" FNPT Discharge

SUFFIX CODES:	XXX	= Standard
	001	= Current Interrupter
	500*	= Five Function Valve
	520*	= Five Function Degas Valve
	ITS	= 15 gal ITS Tank System

* Not available in SS. Adder price is per head.

A completed model number should look like "X015-XA-BAAAXXX"

Mec-O-Matic DOLPHIN Series Selection Guide		UD	-	-	-	U	XXX
MODELS:	10 = 13.0 gpd (2.05 lph) max pres.: 25 PSI (1.72 BAR) 50 = 60.0 gpd (9.46 lph) max pres.: 25 PSI (1.72 BAR) 75 = 97.0 gpd (15.30 lph) max pres.: 25 PSI (1.72 BAR)						
ELECTRICAL:	XA = 115V, 60 Hz XL = Standard 230V, 50/60 Hz, used w/ Model 10 only XB = Standard 230V, 50 Hz, used w/ Models 50 & 75 only XC = Standard 230V, 60 Hz, used w/ Models 50 & 75 only						
LIQUID END MATERIALS:	LSA = Norprene Tubing LBA = Viton Tubing						
CONNECTION SIZES:	U = Tubing .25" I.D. X .44" O.D.						
SUFFIX CODES:	XXX = Standard						
A completed model should look like "UD75-XA-LBAUXXX"							

Junction Box option is available on 230V models at no additional charge. Contact the factory for model numbers.
 Shipping weight for Dolphin Pumps is 7 lbs.

Mec-O-Matic VSP Series Selection Guide		UVSP	-	-	-	U	XXX
MODELS:	12 = 12.0 gpd (1.89 lph) max pres.: 25 PSI (1.72 BAR) 20 = 20.0 gpd (3.15 lph) max pres.: 25 PSI (1.72 BAR)						
ELECTRICAL:	XP = 24VAC XR = 120V 50/60 Hz						
LIQUID END MATERIALS:	LLA = Norprene Tubing LBA = Viton Tubing						
CONNECTION SIZES:	U = Tubing .19" I.D. X .38" O.D. used w/ UVSP12 only U = Tubing .25" I.D. X .44" O.D. used w/ UVSP20 only						
SUFFIX CODES:	XXX = Standard						
A completed model should look like "UVSP12XRLLAUXXX"							

Shipping weight for all VSP pumps is 6 lbs.

Mec-O-Matic 2400T Series Selection Guide		UT24	-	-	-	-
MODELS:	UT24 = 2.5 gpd (0.39 lph) max pres.: 25 PSI (1.72 BAR) used w/ 2400T & 2400T PLUS					
ELECTRICAL:	-XA = 115V, 60 Hz used w/ 2400T only PXA = 115V, 60 Hz used w/ 2400T PLUS only					
LIQUID END MATERIALS:	LT = Silicone Tubing LB = Viton Tubing					
CONNECTION:	AU = Tubing .125" I.D. X .31" O.D.					
SUFFIX CODES:	XXX = Standard					
A completed model should look like "UT24-XA-LBAUXXX"						

- 2400T comes standard with 24 hour mechanical timer. 2400T plus utilizes a 7 day, 8 event programmable timer
- Shipping weight is 7.5 lbs.

MicroVision Selection Guide**MVS**

MODEL:	MVS	= MicroVision Toroidal Conductivity Cooling Tower Controller
VOLTAGE:	1	= 115/230 volt
POWER WIRING:	X	= Liquid Tight connections (required for CE input power cord options below)
	P	= Prewired power cord and relays (115 VAC Only)
PANELS:	X	= No Panel and No Flow assembly
	F	= Flow assembly, No Panel
	A	= Standard Panel & Flow Assembly
	B	= Panel & Flow Assy, 1 Pump Mount, strainer, sensor tee, inj tee & rails
	C	= Panel & Flow Assy, 2 Pump Mount, strainer, sensor tee, 2 inj tees & rails
	D	= Panel & Flow Assy, 3 Pump Mount, strainer, sensor tee, 3 inj tees & rails
SUFFIX CODES:	XXX	= Suffix Code
	750	= 3/4" Back Flow Check Valve
	PC025	= 25 Feet (7.6m) of Probe and Flow Switch wiring
	PC050	= 50 Feet (15.2m) of Probe and Flow Switch wiring
	PC075	= 75 Feet (22.8m) of Probe and Flow Switch wiring
	PC100	= 100 Feet (30.4m) of Probe and Flow Switch wiring
	CZ_XXX	= CE Approval w/input power cord and plug (CZXXX=European plug ; CZUKXXX=UK plug; CZSUIXXX=Swiss plug)

MicroTrac Selection Guide**MTC**

MODEL:	MTC	= MicroTrac Toroidal Conductivity Cooling Tower Controller
VOLTAGE:	1	= 115/230 volt
RELAY & POWER WIRING:	X	= Prewired power cord & Liquid-Tight relay connections
	L	= Liquid-Tight connections only
	P	= Prewired power cord and relays (115 VAC only)
SENSOR TEE:	X	= Standard (no tee)
	T	= Sensor Tee with 3/4" inlet/outlet connections
FLOW SWITCH:	X	= Standard (no flow switch)
	F	= Flow Switch with 15' cable
	L	= Standard Flow Assembly (no panel)
	A	= Standard Panel & Flow Assembly
	B	= Deluxe Panel & Flow Assy, 1 Pump Mount, in/out ball valves, strainer, inj tee & rails
SUFFIX CODES:	XXX	= Suffix Code
	750	= 3/4" Back Flow Check Valve
	PC025	= 25 Feet (7.6m) of Probe and Flow Switch wiring
	PC050	= 50 Feet (15.2m) of Probe and Flow Switch wiring
	PC075	= 75 Feet (22.8m) of Probe and Flow Switch wiring
	PC100	= 100 Feet (30.4m) of Probe and Flow Switch wiring
	CZ_XXX	= CE Approval w/input power cord and plug (CZXXX=European plug ; CZUKXXX=UK plug; CZSUIXXX=Swiss plug)

MicroVision Boiler Selection Guide		MVBX	-	-	-	-	-	-	XXX
MODEL:	MVBX	=MicroVision Boiler Controller							
POWER WIRING:	P	=Prewired with pigtails (115 VAC only)							
	C	=Conduit connections (115V or 230V)							
ENCLOSURE OPTIONS	H	=Heavy Duty Enclosure							
SYSTEM OPTIONS:	X	=None							
	A	=1/2" Solenoid valve, one 1" orifice union w/4 plates (Timed Sample) 100 PSI Max.							
ASSEMBLED	B	=1/2" Motorized ball valve one 1/2" flow throttling valve (Timed Sample) 250 PSI Max.							
	C	=1/2" Motorized ball valve one 1" orifice union w/4 plates (Timed Sample) 250 PSI Max.							
	D	=3/4" Motorized ball vlv, one 3/4" throttling vlv, one 1/2" throttling vlv (Continuous Sample) 250 PSI Max.							
	E	=3/4" Motorized ball valve, two 1" orifice union w/4 plates (Continuous Sample) 250 PSI Max.							
	F	=High Pressure Flow Assembly (250 PSI) for cooling tower applications							
SENSOR OPTIONS:	X	=No Sensor Provided							
	H	=High Temperature and Pressure, 375 PSI Max (210 PSI for steam) 442° F Max							
	R	=3/4" Short style sensor and tee, 250 PSI Max (210 PSI for steam) 392° F Max							
	S	=1" Contact Electrode, 250 PSI Max (210 PSI for steam) 392° F Max							
CABLE LENGTH:	000	= No Cable Supplied							
	010	= 10 Feet of sensor cable							
	025	=25 Feet of sensor cable							
	050	=50 Feet of sensor cable							
	075	=75 Feet of sensor cable							
	100	=100 Feet of sensor cable							
	150	=150 Feet of sensor cable							
SUFFIX CODES:	XXX	=Standard Unit							
	CZ_XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)							

MicroVision Timer Selection Guide		MVT	-	-	-	-	-	-
MODEL:	MVT	= MicroVision Timer Controller						
VOLTAGE:	1	= 115 volt						
POWER WIRING:	X	= Liquid Tite connections only (required for 230VAC)						
	P	= Prewired w/Power Cord and Pigtails for 115 VAC						
PANELS:	X	= No Panel and No Flow assembly						
	F	= Flow assembly, No Panel						
	A	= Standard Panel & Flow Assembly						
	B	= Panel & Flow Assy, 1 Pump Mount, strainer, inj tee & rails						
	C	= Panel & Flow Assy, 2 Pump Mount, strainer, 2 inj tees & rails						
	D	= Panel & Flow Assy, 3 Pump Mount, strainer, 3 inj tees & rails						
SUFFIX CODES:	XXX	= Suffix Code						
	CZ_XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)						

A completed model should look like "MVT1PB-XXX"

