

PULSAFEEDER[®]

PRODUCT REFERENCE GUIDE

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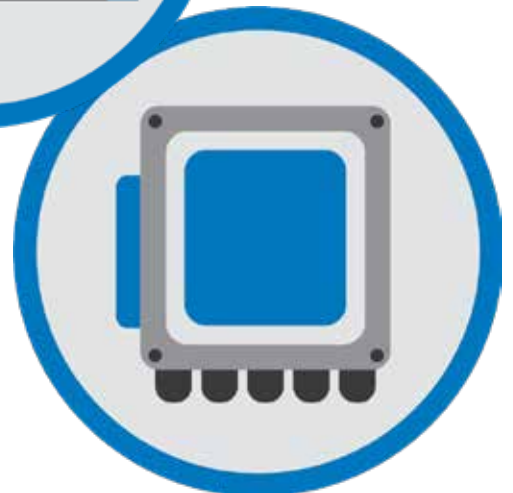
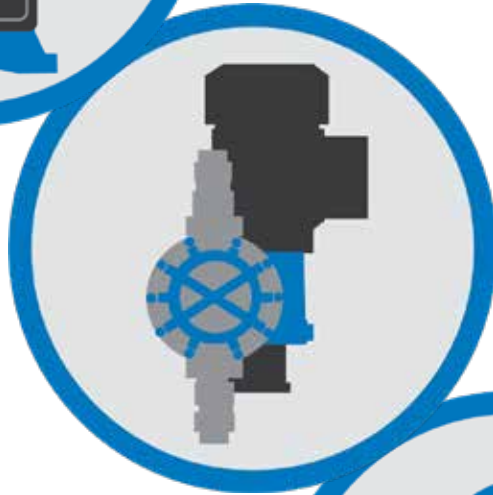


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Chemical Compatibility Chart						
Chemical	(Best)	(Common)	(Alternate)	(Compatible selections)		
	Liquid End Code	Liquid End Code	Liquid End Code	Head/Valve	Seat	Check Ball
ACETIC ACID, 5 - 10%	KTC	PHC	PTC	K, P,	T, H	C, T, H
ALUMINUM SULFATE	KTC	PVC	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
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.

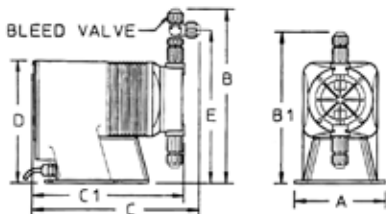
Connection Codes

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.**
- Degasing head available on PULSAtron pumps with volumes <44GPD & pressures <150PSI.

PULSAtron Series MP Selection Guide		LM					
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 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

LP _ _ _ _ _

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	

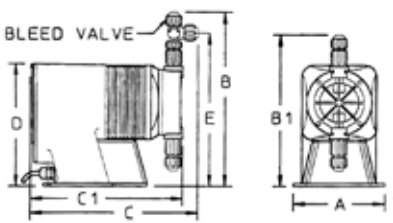
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV Series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

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

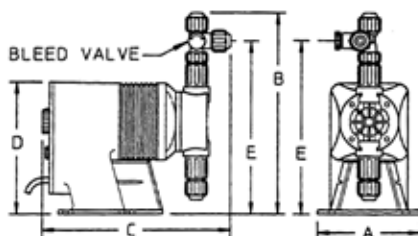


Series E Plus Dimensions (inches)																	
Model No.	A	B	B1	C	C1	D	E	Shpg Wt	Model No.	A	B	B1	C	C1	D	E	Shpg Wt
LPA2	5.4	10.3	-	10.8	-	7.5	8.9	13	LPH4	6.2	10.9	-	11.2	-	8.2	9.5	21
LPA3	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH5	6.2	11.3	-	11.2	-	8.2	9.9	21
LPB2	5.4	10.3	-	10.8	-	7.5	8.9	13	LPG5	6.2	11.3	-	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		LV	---	---	---	---	---
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 = GFPPPL / TFE / TFE - LVB3 & F4 only PTS = GFPPPL / 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 (.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						
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
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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	= GFPP / CSPE / Ceramic
	PTC	= GFPP / TFE / Ceramic
Pump Head & Fittings/Seats & O-rings/Balls	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 SAeries pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

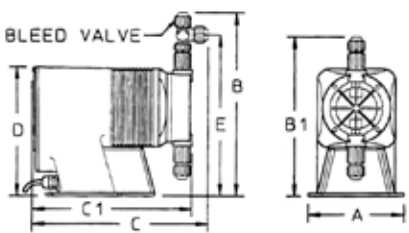
SUFFIX CODES:	XXX	= No Additional Options
	130	= PVDF Tubing
	500	= Five Function Valve
	520	= Five Function Degas Valve
	ITS	= 15 gal. ITS Tank System (ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, H8, J7, K7 models)
	CZ_XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

See pages 8 & 9 for additional information and specs.

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

LE_ _ S _ _ _ _ _ _ _ _

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

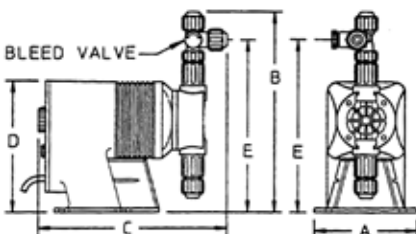
NOTE: Inches X 2.54 = cm

PULSAtron Series E-DC Selection Guide

MODELS:	02	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR)	LS__		S	4	-	-	-
	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	= GFPPPL / CSPE / Ceramic							
Pump Head & Fittings/Seats & O-rings/Balls	PTC	= GFPPPL / TFE / Ceramic							
	PVC	= GFPPPL / Viton / 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							
	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

LB _ _ - _ - - - - - - -

MODELS:

Product Code	Flow Rate			Pressure Rating ¹		Stroke Rate (SPM)	Standard Valve Size	Max. Viscosity (cps)
	GPD	GPH	LPH	PSI	BAR			
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		1	
C2	6	0.25	0.9	250	17	125	J (TFE only)	
C3	10	0.42	1.6					
O2	6	0.25	0.9	150	10			
O3	12	0.50	1.9					
O4	24	1.00	3.8					
64	30	1.25	4.7	100	7	1		
C4	48	2.00	7.6	50	3.3	3		

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	GFPP / CSPE / Ceramic (150 PSI Max) ¹
PTC	GFPP / 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

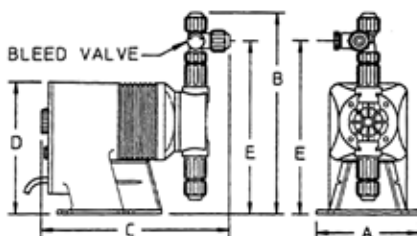
SUFFIX CODES:

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

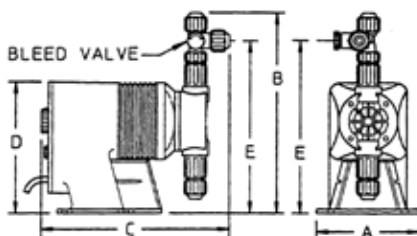
NOTE: Inches X 2.54 = cm

PULSAtron Series T7 Selection Guide

MODELS:	13 14 64 44	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR) = 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR) = 1.25 gph / 30 gpd (4.7 lph) max pres.: 100 PSI (7 BAR) = 2.00 gph / 48 gpd (7.6 lph) max pres.: 50 PSI (3.3 BAR)	LC _ _	B	_	_	_	_	_
CONTROLS:	B	= No Options Available							
ELECTRICAL:	A 1 B 2	= 115 Volt / 50-60Hz = 115 Volt / 50-60Hz (without agency approvals) = 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug = 230 Volt / 50-60Hz (without agency approvals)							
LIQUID END MATERIALS:	PHC PTC KTC VHC VTC	= GFPPL / CSPE / Ceramic = GFPPL / TFE / Ceramic = PVDF / TFE / Ceramic = PVC / CSPE / Ceramic = PVC / TFE / Ceramic							
See page 6 for additional liquid end materials.									
CONNECTION SIZES:	1 9 J METRIC: Y T	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH = Degas Head: .25" I.D. x .38" O.D. / 0-1.83 GPH = Tubing, .25" I.D. x .38" O.D. / .19 Ball; 0 - 1.04 GPH = 9 x 12mm, .25" Ball, 0 - 7.10 LPH = 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 130 500 520 ITS	= No Additional Options = PVDF Tubing = Five Function Valve = Five Function Degas Valve = 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

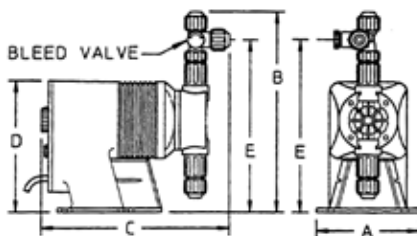


Series T7 Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LC13BA	5.0	9.6	9.5	6.5	8.2	10
LC14BA	5.0	9.9	9.5	6.5	8.5	10
LC64BA	5.0	9.9	9.5	6.5	8.5	10
LC44BA	5.4	10.6	11.3	7.4	9.2	11.8

NOTE: Inches X 2.54 = cm

PULSAtron Series C Plus Selection Guide		LD					
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 = GFPPPL / CSPE / Ceramic PTC = GFPPPL / 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

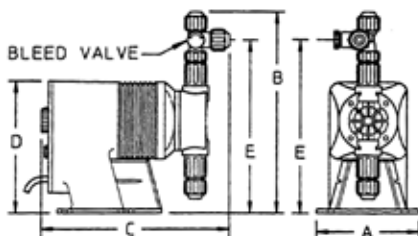


Series C PLUS Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LD02	5.0	9.6	9.5	6.5	8.2	10
LD03	5.0	9.9	9.5	6.5	8.5	10
LD04	5.0	9.9	9.5	6.5	8.5	10
LD54	5.0	9.9	9.5	6.5	8.5	10

NOTE: Inches X 2.54 = cm

PULSAtron Series C Selection Guide		LC				
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 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

Chem-Tech XP Series Selection Guide								XP	---	---	---	---	
MODELS:	Pump Size	Flow	Pressure Rating - PSI (Bar)				Tube Size	Speed (RPM)					
			Single Head Options			Duplex							
			'H' Tube	'L' Tube	'F' Tube	'L' Tube							
XP004	4 GPD (0.6 LPH)		125 (8.6)	80 (5.5)	60 (4.1) ¹	80 (5.5)	2	30					
XP007	7 GPD (1.1 LPH)							50					
XP009	9 GPD (1.4 LPH)							30					
XP015	15 GPD (2.4 LPH)	110 (7.6) ¹	70 (4.8)	50 (3.4) ¹			3	50					
XP014	14 GPD (2.3 LPH)							30					
XP023	23 GPD (3.6 LPH)	100 (5.9) ¹	50 (3.4)	40 (2.8) ¹			4	50					
XP030	30 GPD (4.7 LPH)		80 (5.5)					30					
XP050	50 GPD (7.9 LPH)		40 (2.8)				6	50					
XP048	48 GPD (7.5 LPH)							30					
XP080	80 GPD (12.6 LPH)		25 (1.7)				8	50					

ELECTRICAL:	L	115V, 60Hz
	H	230V, 50/60Hz
	R	230V, 50Hz with 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	
7	Flow Switch Activated with 3/4" NPT Flow Switch - Adjustable Rate Pump	
8	7 Day - 8 Event Electronic Timer - 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 "XP030FLX"

Chem-Tech XPV Series Selection Guide								XP	---	---	---	---	
MODELS:	Pump Size	Flow	Pressure Rating - PSI (Bar)				Tube Size	Speed (RPM)					
			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						
XP017	17 GPD (2.7 LPH)		110 (7.6)	70 (4.8)	50 (3.4) ¹	70 (4.8)	3	65 Max.					
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						
XP100	100 GPD (15.8 LPH)			25 (1.7)		25 (1.7)	8	60 Max.					

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 "XP033LVX"

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)	X - - - A - - -
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-BAAAXX"		

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 (15.30lph) 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							
ASSEMBLED	A	=1/2" Solenoid valve, one 1" orifice union w/4 plates (Timed Sample) 100 PSI Max.							
	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" throting 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"

