# PUISATTON® Electronic Metering Pumps

#### Series A PLUS

#### Key Features

- Manual Control by on-line adjustable stroke rate and stroke length.
- Agency approved for demanding OUTDOOR and indoor applications.
- Highly Reliable timing circuit.
- Water Resistant excellent for OUTDOOR and indoor applications.
- Internally Dampened To Reduce Noise, very acceptable for household installations.
- Guided Ball Check Valve Systems, to reduce back flow and enhance outstanding priming characteristics.
- Premium Standard Wetted Component Materials.
- Few Moving Parts and Wall Mountable.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).
- **Optional Control:**

External pace with auto/manual selection. External stop function 1000:1 turndown control (S2, S3 & S4 sizes only)



# Pressure and Flow Rate Capacity



	MODEL		LBC2	LB02	LBC3	LB03	LB04	LB64	LBC4	LBS2	LBS3	LBS4
Capacity		GPH	0.25	0.25	0.42	0.50	1.00	1.25	2.00	0.50	1.38	2.42
nominal		GPD	6	6	10	12	24	30	48	12	33	58
(max.)		LPH	0.9	0.9	1.6	1.9	3.8	4.7	7.6	1.9	5.2	9.14
	GFPP, PVDF, 316SS											
	or PVC (W code)											
Pressure <sup>1</sup>	w/TFE Seats)	PSIG	250 (17)	150 (10)	250 (17)	150 (10)	100 (7)	100 (7)	50 (3.3)	250 (17)	150 (10)	100 (7)
(max.)	PVC (V code) Viton or	(Bar)		130 (10)	230 (17)	130 (10)	100 (7)	100 (7)	50 (5.5)		130 (10)	100 (7)
	CSPE Seats / Degas											
	Liquid End		150 (10)							150 (10)		
Connections		Tubing			1/4" ID X	3/8" OD			3/8" ID X 1/2" OD	1/4	" ID X 3/8" (	OD OC
		Piping	1/4" FNPT									
Strokes/Minute		SPM		125							250	
Note 1. Dumne	with rated proceura	ahovo 1	FU DCI will	ho do rator	to 150 DCI	May whon	colocting	cortain val	o ontions soo Dr	co Rook fo	r dotaile	

Note 1: Pumps with rated pressure above 150 PSI will be de-rated to 150 PSI Max. when selecting certain valve options, see Price Book for details.

# Engineering Data

Reproducibility: +/- 3% at maximum capacity

**Viscosity Max CPS:** 1000 CPS

Stroke Frequency Max SPM: 125 / 250 by Model Stroke Frequency Turn-Down Ratio: 10:1 / 100:1 by Model Stroke Length Turn-Down Ratio:

115 VAC/50-60 HZ/1 ph **Power Input:** 230 VAC/50-60 HZ/1 ph

**Average Current Draw:** 

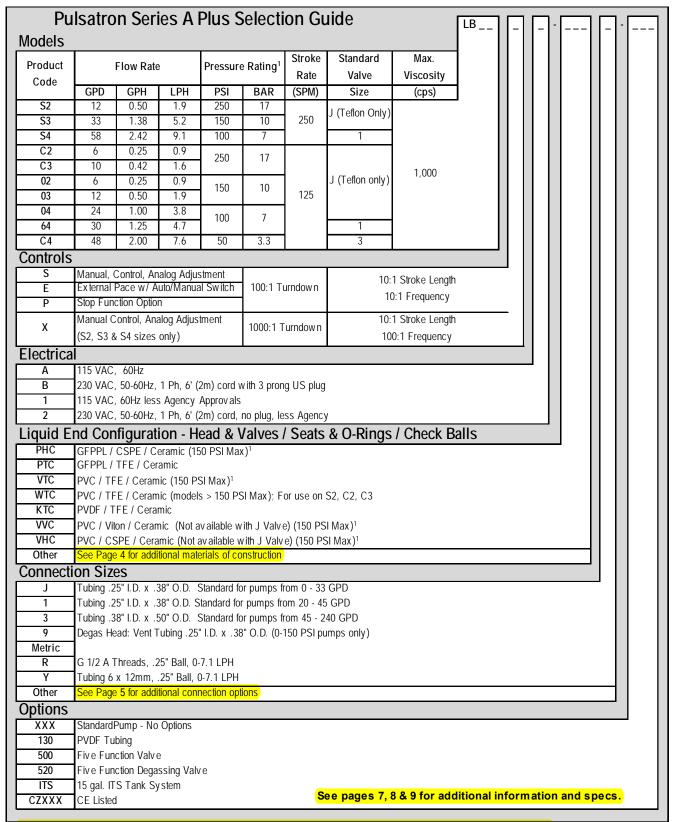
@ 115 VAC; Amps: 0.6 Amps @ 230 VAC; Amps: 0.3 Amps Peak Input Power: 130 Watts Average Input Power @ Max SPM: 50 Watts



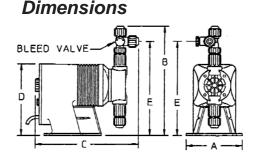
sales@novatech-usa.com www.novatech-usa.com

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### **Pulsatron Series A Plus Model Selection Matrix**



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



Series A PLUS Dimensions (inches)										
Shipping										
Model No.	Α	В	С	D	E	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



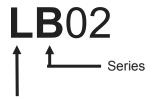
#### Model Selection Guide

Once you have selected the appropriate Series, you must configure the model so that it is built with the features you desire. The Configuration Guide associated with each Series will present the most popular selections. Select one code from each category to build up a complete model string.

To help you better understand the model string, in the following pages, we will explain what each of the digits represent and provide you some additional charts to help you select options not found in the Configuration Guides.

#### Model Selection:

The first four digits represent the Series and Flow/Pressure Selection.



The first digit will always start with the letter 'L'.

LB02

Flow/Pressure Code

All PULSAtron models begin with this letter. The second letter designates the Series (e.g. Series MP, Series E+, Series A+, etc.). Each series has a different set of features that are available in terms of control and flow/pressure capacity. The next two digits represent the flow/pressure capacity of the pump.

Digits 3 & 4 represent the Flow/Pressure Code.

This code represents the specific flow/pressure rating for the model and can be found in the specification for each Series.

Series Code De	esignator
Series MP	М
Series E Plus	Р
Series HV	V
Series E	E
Series E-DC	S
Series D	F
Series A Plus	B
Series C Plus	D
Series C & T7	С
Series CW	W
Series CL	L
Series WT	Q
Series ET	Т



Digits 5 & 6 represent the Controls and Electrical selections.

These selections are explained for each model in the Configuration Guide.



#### Selection Guide cont'd.

#### Selecting the Wet-End Code & Connection Type:

Digits 7-10 in the string represent the wet-end code. It is the group of four digits set apart by the dash lines.



These four digits represent your wet-end code and connection type.

The four digits in the wet-end code represent the Head Material, Seats & O-Rings, Ball Material and Connection type. Using the above example, the code breads down as follows:

- P Head Material, including fittings. In this example, the P represents GFPPL.
- **T** Seat & O-Ring Material. In this example, the T represents TFE.
- C Types of Balls used in the valves. In this example, the C represents Ceramic.
- 1 Connection type. In this example, the 1 represents tubing connections for 3/8" OD tubing.

In the configuration Guide, we have listed the most popular Wet-End codes. If you don't find the materials or connection selection to meet your needs, refer to the following selection guides to configure the proper Wet-End Code.

#### Selecting the Wet-End Code:

The wet-end code represents the materials of construction that will be in contact with the chemical you are pumping. It is critical that the materials selected are compatible. If you do not find the wet-end code to meet your application in the configuration guides, you can use the Wet-End Code Selection Guide to determine the correct Head Material, Seats & O-Rings and Balls. If you do not know what materials are compatible with the chemicals you are pumping, refer to the chemical compatibility chart below. We have identified the proper wet-end code for the chemicals in the list. If your chemical is not found in the list, please contact your chemical supplier or visit www.pulsatron.com for a complete listing.

P	ULS	SAtron Wet-End Code Selection
Hea	d & F	Fittings
Α	=	316 Stainless Steel (All models except H8)
K	=	PVDF (Kynar) (Consult factory for J7, H8 models)
Р	=	GFPPL (Polypropylene)
٧	=	PVC (Poly Vinyl Chloride) (for models rated
		< 150 psi excluding K7, H7, H8)
w	=	PVC (for models > 150 psi and K7, H7, H8)
Sea	ts	
Н	=	CSPE
Т	=	TFE (not available w ith TFE ball over 150 psi)
٧	=	Viton (150 psi max.)
Balls	S	
С	=	Ceramic
Н	=	Alloy C (Hastelloy)
S	=	316 Stainless Steel
lт	=	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.

Chemical Compatibility Chart						
	Liquid End					
Chemical	Code					
ACETIC ACID, 5 - 10%	PHC					
ALUMINUM SULFATE	VHC					
AMMONIA, 10%	PHC					
BROMINE	KTC					
CALCIUM HY POCHLORITE	VVC					
CITRIC A CID, 10 - 20%	PHC					
DEAE - Steamline Treatment	ATS					
ETHYLENE GLYCOL	PTC					
FERRIC CHLORIDE	VTC					
FERRIC SULFATE	PTC					
FLUOSILICIC ACID	PTT					
HYDROCHLORIC ACID, 0 - 37%	PTC					
HYDROCHLORIC ACID, 37 - 100%	KTT					
HYDROFLUOSILICIC A CID, 20%	PTT					
HYDROGEN PEROXIDE, 0 - 30%	VVC					
LACTIC ACID	PTC					
NITRIC A CID, 0 - 20%	PVC					
PHOSPHORIC A CID, 0 - 100%	KTC					
POTASSIUM CHLORIDE	PTC					
POTASSIUM PERMANGANATE	PTC					
SODIUM BI-CARBONATE	PTC					
SODIUM BI-SULFATE	PTC					
SODIUM BI-SULFITE	PTC					
SODIUM CARBONATE	PTC					
SODIUM HYDROXIDE, 0 - 50%	PHC					
SODIUM HYPOCHLORITE	VVC					
SODIUM NITRATE	PTC					
SODIUM SILICATE	PHC					
SODIUM SULFATE	PHC					
SODIUM SULFIDE	PHC					
SULFURIC ACID, 0 - 10%	PTC					
SULFURIC ACID, 10 - 75%	PTC					
SULFURIC ACID, 95 - 100%	KTC					

This is an abbreviated version using most common chemicals. Refer to the Chemical Resistance Guide (EMP-030) for a more detailed listing.

## **Model Selection Guide (Connection Size Codes)**

#### Selecting the Connection Code:

Selecting the proper connection code is probably the most difficult part of choosing a PULSAtron pump. Because of the flexibility built into this product line to meet a large variety of applications, the connection codes are determined by alot more factors than just the size of the tubing. Connection code is probably the wrong name for this selection because you are selecting more than just the tubing size. This code also determines the type of valves used in the pump. The valve type is determined by factors such as flow rate of the pump, ball type selected and viscosity of the fluid you will be pumping.

#### Flow Rate:

The pump you select is rated to pump a certain number of gallons per hour (GPH). When selecting the connection code, please note the GPH limitations and select a connection that fits within the parameters of the pump model that you selected.

#### Ball Type:

If the material selected for the balls used in the check valves is TFE, you will probably need to use a spring-loaded connection. This is due to the fact that the weight of the balls will not allow them to seat properly without the spring. See the connection chart for a list of spring loaded connection types.

#### Viscosity:

Viscosity of the fluid you are pumping impacts the connection. The 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.

C-4-		Connection Codes										
Code	Connect Type	Suction	Discharge	Spring	GPH Flow Limitations	Viscosity	Other Factors					
2	Piping	.25" FNPT	.25" FNPT		0 - 1.88	1000 up to 3000 cps w / SS balls	No Bleed Valve					
4	Piping	.25" FNPT	.25" FNPT		1.63 - 10	1000 up to 3000 cps w / SS balls	No Bleed Valve					
6	Piping	.25" FNPT	.25" FNPT	Yes	Up to 10	less than 10,000 cps	No Bleed Valve					
8	Piping	.50" FNPT	.50" FNPT	Yes	Up to 25	less than 10,000 cps	No Bleed Valve					
С	Piping	.50" FNPT	.50" FNPT		25	1000 up to 3000 cps w / SS balls	No Bleed Valve					
G	Piping	.25" FNPT	.25" FNPT	Yes	0 - 1.88	1000 up to 3000 cps w / SS balls	No Bleed Valve					
I	Piping	.50" MNPT	.50" MNPT	Yes	Up to 10	less than 10,000 cps	No Bleed Valve					
L	Piping	.50" MNPT	.50" MNPT		0 - 1.88	1000 up to 3000 cps w / SS balls	No Bleed Valve					
Х	Piping	.50" MNPT	.50" MNPT		1.63 - 10	1000 up to 3000 cps w / SS balls	No Bleed Valve					
1	Tubing	.25" x .38"	.25" x .38"		0 - 1.88	1000 up to 3000 cps w / SS balls						
3	Tubing	.38" x .50"	.38" x .50"		1.63 - 10	1000 up to 3000 cps w / SS balls						
5	Tubing	.50" x .75"	.38" x .50"	Yes	Up to 10	less than 10,000 cps						
7	Tubing	.50" x .75"	.50" FNPT	Yes	Up to 25	less than 10,000 cps	No Bleed Valve					
9	Tubing	.25" x .38"	.25" x .38"	Yes	0 - 1.88	1000 up to 3000 cps w / SS balls	Degas Head/No Bleed Valve					
Α	Tubing	.38" x .50"	.38" x .50"		0 - 1.88	1000 up to 3000 cps w / SS balls						
В	Tubing	.50" x .75"	.50" x .75"		25	1000 up to 3000 cps w / SS balls	No Bleed Valve					
D	Tubing	.25" x .38"	.25" x .38"	Yes	0 - 1.88	1000 up to 3000 cps w / SS balls						
Е	Tubing	.38" x .50"	.38" x .50"	Yes	0 - 1.88	1000 up to 3000 cps w / SS balls						
F	Tubing	.38" x .50"	.38" x .50"	Yes	1.63 - 10	1000 up to 3000 cps w / SS balls	Not Available In PVDF					
Н	Tubing	.25" x .38"	.25" x .38"		1.63 - 10	1000 up to 3000 cps w / SS balls						
J	Tubing	.25" x .38"	.25" x .38"		0 - 1.04	1000 up to 3000 cps w / SS balls						
K	Tubing	.50" x .75"	.50" x .75"	Yes	1.88 - 25 (<50 psi)	less than 10,000 cps	No Bleed Valve					
					LPH Flow Limitations							
М	Piping	G 1/2 A	G 1/2 A		6.15 - 37.85	1000 up to 3000 cps w / SS balls						
R	Piping	G 1/2 A	G 1/2 A		0 - 7.10	1000 up to 3000 cps w / SS balls						
N	Tubing	4 x 10 mm	4 x 10 mm		0 - 7.10	1000 up to 3000 cps w / SS balls	-					
Р	Tubing	4 x 6 mm	4 x 6 mm		0 - 3.94	1000 up to 3000 cps w / SS balls	-					
Q	Tubing	10 x 14 mm	10 x 14 mm		6.15 - 37.85	1000 up to 3000 cps w / SS balls	-					
S	Tubing	6 x 10 mm	6 x 10 mm		> 18.93	1000 up to 3000 cps w / SS balls						
Т	Tubing	6 x 10 mm	6 x 10 mm		0 - 7.10	1000 up to 3000 cps w / SS balls	Degas Head/No Bleed Valve					
U	Tubing	6 x 10 mm	6 x 10 mm		0 - 7.10	1000 up to 3000 cps w / SS balls						
٧			12 x 19 mm		> 29.96	1000 up to 3000 cps w / SS balls	No Bleed Valve					
W			10 x 16 mm		6.15 - 37.85	1000 up to 3000 cps w / SS balls						
Υ	Tubing	6 x 12 mm	6 x 12 mm		0 - 7.10	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.

# **Model Selection Guide (Suffix Codes)**



Selection Guide cont'd.

Suffix Code:

# LB02SA-PTC1-XXX ←— Suffix Code

The last three digits of the model string are referred to as the Suffix Code. It is through the suffix code that the pump can be customized with optional features or customer specific features, e.g. private labeling. If your company has specific features that will be ordered on every pump, contact customer service with a description of what you want customized. We will then assign a unique suffix code that can be used as the last three digits in the model string when you place an order.

#### CZXXX = CE Approval

This suffix code tells us that you require CE Approval on the pump you are ordering. This suffix code is five digits and can be used in conjunction with other suffix codes by replacing the XXX after the CZ with another suffix code. For instance, if you require CE Approval and a Five Function Valve (shown below), the suffix code would be CZ500.

## **Model Selection Guide (Suffix Codes)**

#### Standard Suffix Code Descriptions:

On the following pages are additional features that can be added to your PULSAtron pump through the use of the Suffix Code. Anytime you order a pump with one of these codes, it will be configured with that option.

#### 130 = PVDF Tubing

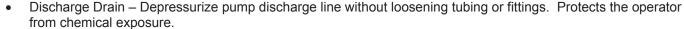
This suffix code will replace the standard pump tubing with PVDF Tubing.

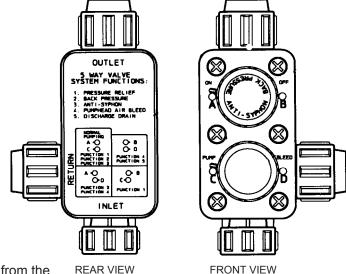
#### 500 = Five Function Valve

The five function valve is easily installed, no tools required. The valve operates with all PULSAtron models up to 240 GPD. The five function valve is packed with features that increase safety, enhance performance and generally improves the convenience of operation.

#### **FEATURES**

- Pressure Relief Allows for relief of excessive pressure in discharge line to protect connections and tub-
- Back Pressure Maintains output reproducibility and allows metering into atmospheric discharge.
- Anti-Siphon Prevents siphoning through the pump when point of injection is lower than the pump or into the suction line of another pump. Rated at total vac-
- Air Bleed Used during priming to manually remove air from the pump head.





FRONT VIEW

# **SPECIFICATIONS**

#### **Material Of Construction:**

Valve Body Polyvinylidene Flouride (PVDF)

Diaphragm TFE faced CSPE

**O-Rings TFE** 

Hardware 18-8 Stainless Steel (Recessed)

**Maximum Operating** 

Pressure: 300 PSI/21 BAR (except PVC)

**Maximum Flow:** 10 GPH (37.85 LPH)

**Maximum Viscosity:** 1000 CPS

**Pressure Relief** 

275 PSI (17 BAR) - red Settings: 175 PSI (12 BAR) - green (nominal cracking pressure) 125 PSI (8.6 BAR) - blue

50 PSI (2.8 BAR) - black (PVC only)

Note: Pressure relief will occur at no more than 50% above maximum rating of pump.

#### **OPERATION**

The functions are selected by setting two dual position selector knobs. The label on the back panel of the valve identifies each function with selector knob positions.

The five function valve is compatible with most PULSAtron pumps. Connected to the existing discharge valve the five function valve is capable of handling a large output flow as well as viscous liquids. A return port located on the side body provides flow of chemical back to the solution tank when in the air bleed or drain discharge mode.



#### Selection Guide cont'd.

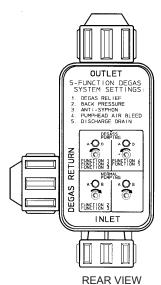
# 520 = DG/5FV Five Function

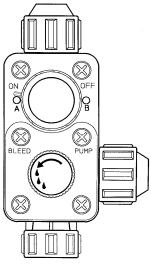
# Valve with De-Gas

With the DG/5FV you don't have to give up the accuracy and control of a solenoid metering pump in order to pump gaseous solutions. Available in a variety of materials and popular sizes, the DG/5FV is ready to tackle most applications. Not only does the DG/5FV provide degassing, it is packed with features that increase safety, enhance performance and generally improves the convenience of operation.

#### **FEATURES**

- De-Gas Bypass gasses and fluid during normal pump operation. Allows for the constant removal of gases that would otherwise "air bind" the pump.
- Back Pressure Maintains output reproducibility and allows metering into atmospheric discharge.
- Anti-Siphon Prevents siphoning through the pump when point of injection is lower than the pump or into the suction line of another pump. Rated at total vacuum.
- Air Bleed Used during priming to manually remove air from the pump head.
- Discharge Drain Depressurize pump discharge line without loosening tubing or fittings. Protects the operator from chemical exposure.





FRONT VIEW

#### **SPECIFICATIONS**

**Material Of Construction:** 

Valve Body Polyvinylidene Flouride (PVDF)

**Diaphragm** TFE faced CSPE **O-Rings** Viton or CSPE

**Hardware** 18-8 Stainless Steel (Recessed)

Maximum Flow: 10 GPH (37.85 LPH)

Minimum Flow: 3 GPD (.47LPH)

Maximum Viscosity: 1000 CPS

MAX Pressure Ratings: Up to 250 psi (17 BAR)

**Note:** Degas/bypass volume is adjustable, typically 1-10% of pump output.

**Connections:** 1/4" (0.635 cm) Male NPT

1/2" (1.27 cm) OD tubing 3/8" (0.95 cm) OD tubing

All ports (input, output & bypass) on the selected valve will be the same.

#### **OPERATION**

The functions are selected by setting two dual position selector knobs. The label on the back panel of the DG/5FV identifies each function with selector knob positions.

The DG/5FV is compatible with most PULSAtron pumps. Connected to the existing discharge valve the GG/5FV is capable of handling a large output flow as well as viscous liquids. A return port located on the side body provides flow of chemical back to the solution tank when in the degas, air bleed or drain discharge mode.

# **Model Selection Guide (Suffix Codes)**

### ITS = Integrated Tank System

The ITS System is a completely integrated tank system constructed of high density UV resistant polyethylene (PE) with a 15 gallon capacity. This tank system is translucent with 5 gallon increments and the tank's low level indicator allows visual monitoring of chemicals without opening the tank. The tight fitting child-proof lid keeps the chemical free of contaminants and protects the surrounding area from chemical fumes.

The ITS System also allows for easy access to the liquid end and control panel of the mounted pump.

A system consists of a chemical tank with lid and bulkhead fittings; a liquid level indicator float assembly; and feeder mounting hardware.



ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, J7, H8, K7 models) If you require a different type or size tank, please refer to our accessory price book.



#### Selecting a KOPkit:

All KOPkit model strings begin with the letter K. The remainder of the string can be determined by knowing your pump model.

When you select your KOPkit, you will need to build the model number based on the pump model string that you purchased. The two pieces of information you need are the head size and the wet-end code, which is part of the model string of the pump.

The pump head size is the fourth digit in the pump model number.



The 2 represents your pump head size.

Digits 7-20 in the pump model string represent the wet-end code. It is the group of four digits set apart by the dash lines.



These four digits represent your wet-end code.

In the following selection guide, you will break down your wet-end code into the four parts to get your total price for the KOPkit. The four digits in the wet-end code represent the Head Material, Seats & O-Rings, Ball Material and Connection Type. Using the above example, the code breaks down as follows:

- P Head Material, including fittings. In this example, the P represents GFPPL.
- T Seat & O-Ring Material. In this example, the T represents Teflon.
- **C** Types of Balls used in the valves. In this example, the C represents Ceramic.
- 1 Connection type. In this example, the 1 represents tubing connections for 3/8" OD tubing.

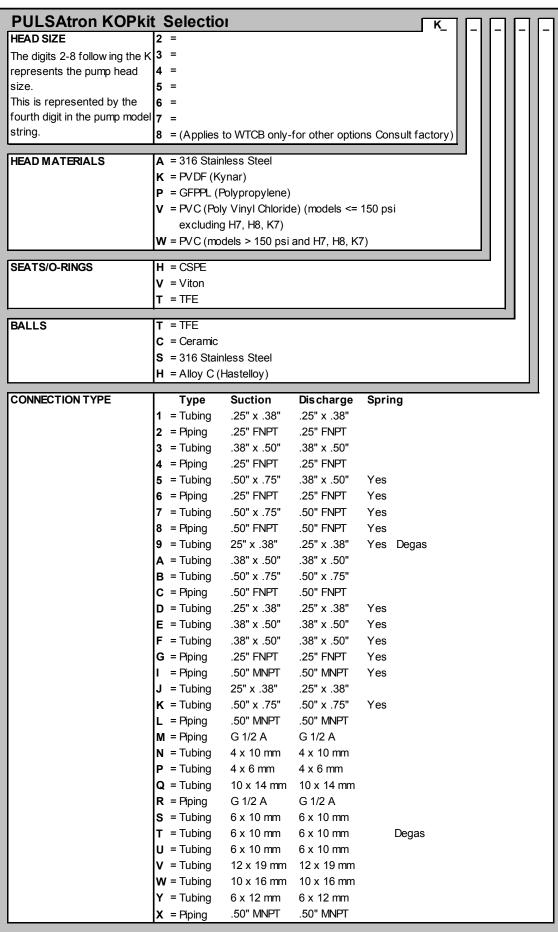
The completed KOPkit number for the above example is:

# K2PTC1

Note: If you do not find your connection size in the following selection guide, please consult the factory for accurate pricing. Our philosophy with the PULSAtron product line is to make it as flexible as our customers need it to be.

# Model Selection Guide (KOPkit - Liquid End Parts Kit Matrix)





# PUSATTON® Suction/Discharge Valves

	scharge Valve Selection Guide
VALVE TYPE:	101 = Suction Valve
	201 = Discharge Valve
SEATS:	H = CSPE
	<b>V</b> = Viton
	T = TFE
BALLS:	T = TFE
	C = Ceramic
	S = 316 Stainless Steel
	H = Alloy C (Hastelloy)
CONNECTION	1 = Double Balls when TFE seats selected
TYPE:	2 = Double Balls when TFE seats selected
	3 = Double Balls when TFE seats selected
	4 = Double Balls when TFE seats selected
	5* = Available for Discharge Only (L3201)
	6 =
	8 =
	B* =
	c =
	D = Spring Loaded w ith SS Balls
	E = Spring Loaded with SS Balls
	F = Spring Loaded with SS Balls
	G = Spring Loaded with SS Balls
	K* =
	i
	M =
	N =
	P =
	Q =
	R =
	S
	w =
	Y =
	x =
MATERIALSON	FPP = Glass Filled Polypropylene
	PVC = Poly Vinyl Chloride
:	PVC = Kynar
	316 = 316 Stainless Steel
	L

<sup>\*</sup> Available with Ceramic Balls and PVC Body Only - Consult factory for pricing on other options



# **Quick Reference Guide**

This guide is designed to provide a simple, easy reference for ordering liquid end components used in many standard configurations. To use this chart, simply use positions 7, 8, 9, 10, 11, 12, and 13 form the model number on your pump. Match these digits to the chart below and follow the line across to determine the part numbers of the liquid end components that you need.

	1	2	3	4	5	6	7	8	9	10	11	12	13
EXAMPLE	L	Р	Е	4	S	Α -	- <u>P</u>	Н	С	1	- X	X	X
									Liqu	uid End C	Code		

				Foot	Injector Back	Suction	Discharge
	Suction Valve	Discharge	Bleed Valve	Valve/Strainer	Pressure Valve	Tubing (by	Tubing (by
Positions 7 -13	Assembly	Valve Assembly	Assembly	Assembly	Assembly	foot)	foot)
PTC1-XXX	L3101TC1-FPP	L3201TC1-FPP	L3300T01-FPP	J40211	J61098	00007	00010
PHC1-XXX	L3101HC1-FPP	L3201HC1-FPP	L3300H01-FPP	J40116	J41766	00007	00010
PVC1-XXX	L3101VC1-FPP	L3201VC1-FPP	L3300V01-FPP	J60524	41715	00007	00010
KTC1-XXX	L3101TC1-PVD	L3201TC1-PVD	L3300T01-PVD	J60716	J61020	00010	00010
KHC1-XXX	L3101HC1-PVD	L3201HC1-PVD	L3300H01-PVD	J60717	J61110	00010	00010
KVC1-XXX	L3101VC1-PVD	L3201VC1-PVD	L3300V01-PVD	J60718	J61088	00010	00010
VTC1-XXX	L3101TC1-PVC	L3201TC1-PVC	L3300T01-PVC	J60716	J41996	00007	00010
VHC1-XXX	L3101HC1-PVC	L3201HC1-PVC	L3300H01-PVC	J60717	41693	00007	00010
VVC1-XXX	L3101VC1-PVC	L3201VC1-PVC	L3300V01-PVC	J61237	41713	00007	00010
PTC3-XXX	L3101TC3-FPP	L3201TC3-FPP	L3300T03-FPP	J40212	J41872	J00023	80000
PHC3-XXX	L3101HC3-FPP	L3201HC3-FPP	L3300H03-FPP	J40117	J41767	J00023	80000
PVC3-XXX	L3101VC3-FPP	L3201VC3-FPP	L3300V03-FPP	J60509	41716	J00023	80000
KTC3-XXX	L3101TC3-PVD	L3201TC3-PVD	L3300T03-PVD	J60728	J61021	80000	80000
KHC3-XXX	L3101HC3-PVD	L3201HC3-PVD	L3300H03-PVD	J60729	J61201	80000	80000
KVC3-XXX	L3101VC3-PVD	L3201VC3-PVD	L3300V03-PVD	J60730	J61086	80000	80000
VTC3-XXX	L3101TC3-PVC	L3201TC3-PVC	L3300T03-PVC	J60728	J41873	J00023	80000
VHC3-XXX	L3101HC3-PVC	L3201HC3-PVC	L3300H03-PVC	J60729	J41694	J00023	80000
VVC3-XXX	L3101VC3-PVC	L3201VC3-PVC	L3300V03-PVC	J60730	J41714	J00023	80000
PTCJ-XXX	L3101TCJ-FPP	L3201TCJ-FPP	L3300T01-FPP	J40211	J61098	L9904300-PVC	00010
KTCJ-XXX	L3101TCJ-PVD	L3201TCJ-PVD	L3300T01-PVD	J60716	J61020	L9904300-PEW	00010
VTCJ-XXX	L3101TCJ-PVC	L3201TCJ-PVC	L3300T01-PVC	J60716	J41996	L9904300-PVC	00010

**NOTE:** This guide provides a quick reference and does not cover all configurations or options.

#### **Aftermarket**

- KOPkits
- Gauges
- Dampeners
- Pressure Relief Valves
- Tanks
- Pre-Engineered Systems
- Process Controllers

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