

# GP Pulse Pump

## Pulse-Actuated Chemical Pump



### SPECIFICATIONS

Part Number	101067	
Max Pressure	3,000 PSI	
Port Sizes	Inlet:	1/8"-27 NPT-F
	Outlet:	1/8"-27 NPT-F
	Pulse Port:	3/8" NPT-f
Dimensions	1.5" x 3.0" x 3.75"	
Weight	2.0 lbs.	
Materials	316 Stainless Steel	

\*Flow will vary according to flow and pressure of the drive pump. For optimum performance, inlet pressure to the drive pump should be zero or negative but not to exceed drive pump specifications.

### FEATURES

- 316 Stainless Steel body
- 316 Stainless Steel piston
- Mounts to one of the drive pump inlet valve ports by using a special valve adapter
- Draws cleaning solution with each stroke of the drive pump
- Permits cleaning solution application at system pressure up to 3,000 PSI

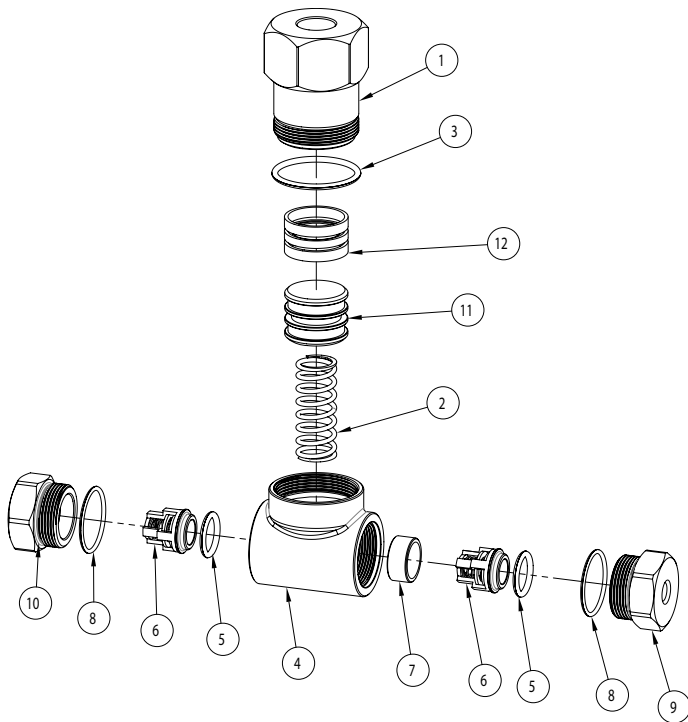
### PARTS LIST

No.	Part No.	Description	Qty.
1	520389	Cylinder, 3K Pulse Pump	1
2*	720069	Spring, 3k PP	1
3*	701126	O-ring, Buna, -126	1
4	520393	Body, Pulse Pump, 3K	1
5*	701114	O-ring, Buna-N, 70 Duro	2
6*	103162	Assy., Pulse Pump Valve	2
7	520194	Space Ring	1
8*	701023	O-ring, 1.051 ID x .070 CS	2
9	520391	Valve Cap, Inlet, SK PP	1
10	520392	Valve Cap, Outlet, 3K PP	1
11*	520390	Piston, 3K Pulse Pump	2
12*	710029	Seal Kit, Piston, 3K PP	1
*	101081	Repair Kit	

### VALVES & ADAPTERS

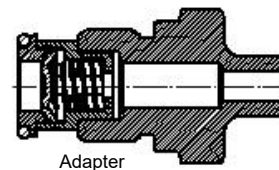
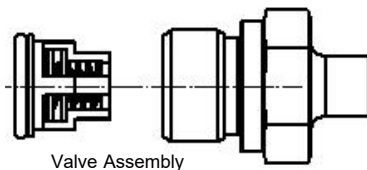
PUMP SERIES	ADAPTER FITTING	VALVE ASSEMBLY
53 (ET)*	101158	103164
60 (TC)	520275	103036
44 (EZ), 59 (ES)	520273	103036
58 (EP), 63 (TX)	520273	103036
47 (HTS)	520274	103035
	520396	103035
66 (TSF)	520276	103090
310/3CP/5CP2 (Cat)	520282	N/A
5CP3/5CP5 (Cat)	520292	N/A
5CP6 (Cat)	520343	N/A

\*53 series pumps require a tapped valve plate. For HR coated plate, use K423, for brass plate use K424.



### INSTALLATION INSTRUCTIONS

From the drive pump remove one of the standard inlet valve plugs and it's valve assembly and install the special valve assembly with a through hole in the plastic cage and install the special adapter with a 3/8" NPT Male threads that is appropriate for the drive pump and tighten to proper torque. Thread the pulse pump pulse port 3/8" NPT Female onto the special adapter 3/8" Male and tighten until the pulse pump inlet and outlet ports are at desired position. Install pulse pump inlet and outlet according to diagram.



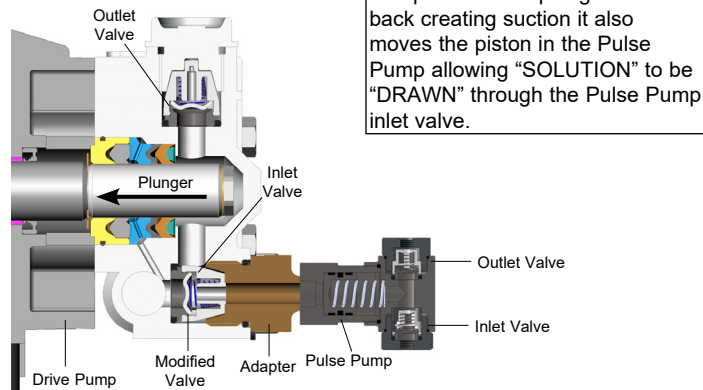
Ref 310018 Rev D  
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# 101067 GP Pulse Pump

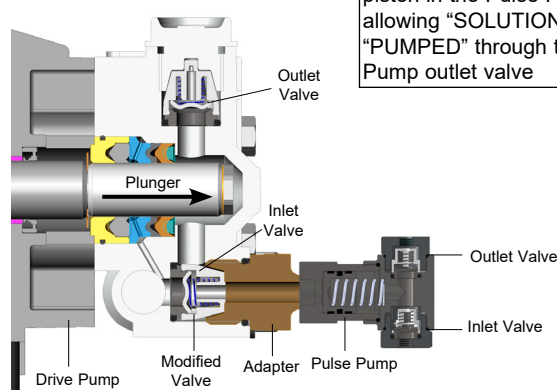
**GENERAL PUMP** *A member of the Interpump Group*

## CUTAWAYS & OPERATION

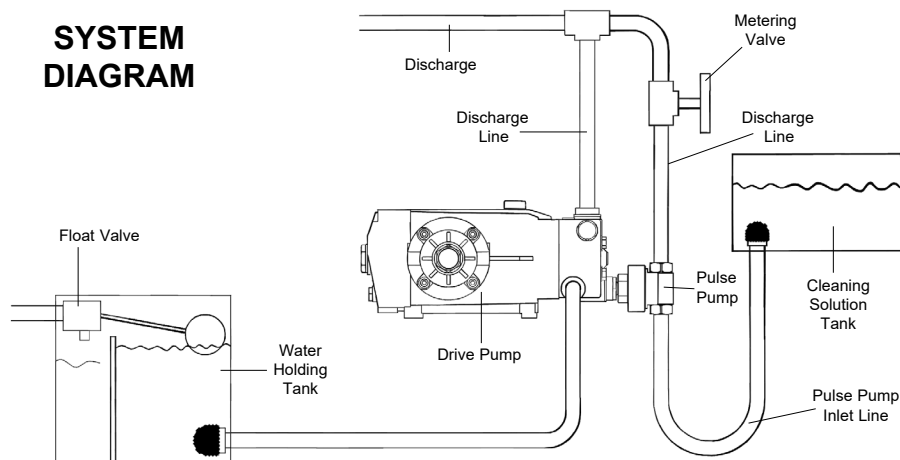
### SUCTION



### DISCHARGE



### SYSTEM DIAGRAM



Pulse Pump will not draw cleaning solution with a pressurized inlet to the drive pump. For optimum performance inlet pressure to the drive pump should be zero or negative but not to exceed drive pump specifications.

To adjust the amount of cleaning solution drawn into the system, install a metering valve in the discharge line of the pulse pump.

## START-UP INSTRUCTIONS

With the drive pump open and pulse pump metering valve open (no back pressure), start drive pump. After water starts to flow from system check to be sure the pulse pump is primed and pumping. Then install nozzle and set drive pump pressure to desired discharge pressure. After the unit is operating, adjust metering valve to obtain desired water/cleaning solution ratio.

Mixing ratio varies with output of drive pump.

## TROUBLESHOOTING

No cleaning solution supply from Pulse Pump:

- System not primed
- Airlock between drive pump and pulse pump piston
- Airlock in pulse pump inlet line
- Failure of seals
- Foreign material in Pulse Pump inlet and outlet valve

Limited cleaning solution supply from Pulse Pump:

- Restriction between drive pump and pulse pump
- Restriction in metering valve
- Worn inlet and outlet valves