# **GP** Pulse Pump

#### GENERAL PUMP <u>A member of the Interpump Group</u>



Pulse-Actuated Chemical Pump, With Ball Valve

## SPECIFICATIONS

Part Number	100152	
Max Pressure	1,500 PSI	
Max Pressure w/ Ball Valve Closed		3,000 PSI
Port Sizes	Inlet:	1/8"-27 NPT-F
	Outlet:	1/8"-27 NPT-F
	Pulse Pump:	3/8" NPT-F
Dimensions		3" x 3.55" x 4.42"
Weight		3.0 lbs
Materials	3	303 Stainless Steel

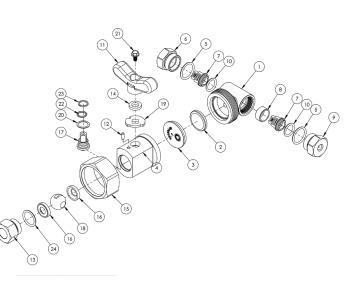
\*Flow will vary according to flow and pressure of the drive pump. For optimum performance inlet pressure to the drive pump should be zero or negative but not to exceed drive pump specifications

### **FEATURES**

ACCESSOR

- 303 Stainless Steel body
- EPDM diaphragm offers resilience and chemical compatibility
- 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 1500 PSI
- Integrated ball valve allows shut-off when using water pressure up to 3000 PSI
- New union style allows replacement of diaphragm without removing plumbing

### PARTS LIST



No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 13.* 14. 15.* 14. 15.* 14. 15.* 14. 15.* 14. 15.* 14. 15.* 14. 15.* 14. 15.* 14. 15.* 14. 15.* 14. 15.* 14. 15.* 14. 15.* 15.* 15.* 15.* 15.* 16.* 15.* 16.* 15.* 16.* 16.* 16.* 16.* 16.* 17.* 18.* 19.* 10.* 11.* 15.* 16.* 16.* 17.* 18.* 19.* 10.* 11.* 15.* 16.* 18.* 20.* 11.* 15.* 21.*	Part Number 520381 660180 700033 520270 701004 520195 103162 520194 520196 701114 450035 520271 520269 701119 520338 660239 520355 640009 640010 640011 200063 701013 660067	Description Body, Pulse Pump, Cast Plastic Disk Rubber Diaphragm Pulse Pump, Top, W/ Ball Valve O-ring .862 x .103 Valve Cap Discharge Assy., Pulse Pump Valve Spacer Ring Valve Cap O-ring .612 x .103 Handle Rotation Stop Pin Fitting 3/8 NPT-F x M24 x 1.5 O-ring SQ 7/16ID x 1/8CS Nut, Pulse Pump Union Ball Seal Steam, Ball Valve, Pulse Pump Ball, Ball Valve, Puls	Qty. 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1
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## **TORQUE SPECIFICATIONS\***

Pos.	Ft/lb	N-M
6	30	40.67
9	30	40.67
13	30	40.67
15	60	80.35
21	10-15 In/lb	1.69

\* Decrease torque by 20% if threads are lubricated.





Ref 300624 Rev. F 04-22



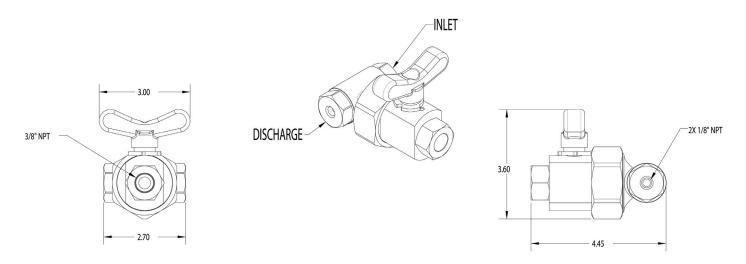
## 100152 GP Pulse Pump

## VALVES & ADAPTERS

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

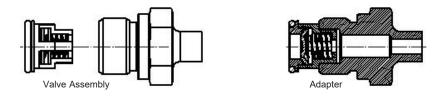
\*53 series pumps require a tapped valve plate. For HR coated plate, use K423, for brass plate use K424.

#### **DIMENSIONS**



## **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"-18 NPT Male threads that is appropriate for the drive pump and tighten to proper torque. Thread the pulse pump pulse port 3/8"-18 NPT Female onto the special adapter 3/8"-18 NPT Male and tighten until the pulse pump inlet and outlet ports are at desired position. Install pulse pump inlet and outlet according to diagram.

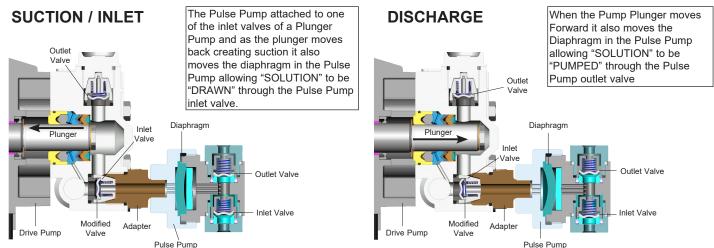




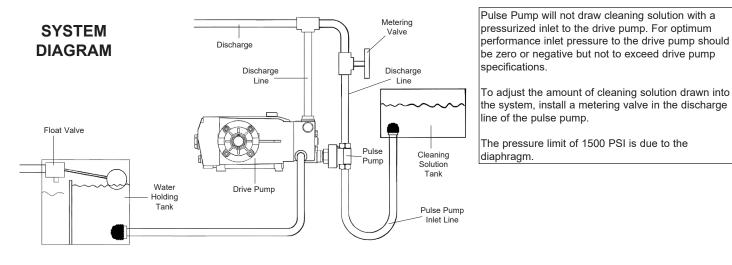
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## **CUTAWAYS & OPERATION**



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## 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 diaphragm Airlock in pulse pump inlet line
- Failure of diaphragm
- · 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

