

## OPERATING INSTRUCTIONS FOR PETERSEN 938-92 SERIES B-STYLE HYDROSTATIC TEST PUMPS



### **EFFICIENT. EASY OPERATION**

- Air operated pump
- Wide range of pressures and volumes
- Easy to operate controls
- Output pressure regulation control
- High pressure system bleed valve
- High pressure test hose

### **PORTABLE**

- Lightweight design
- One person operation
- Low center of gravity for stability
- Semi-pneumatic tires

### **LOW MAINTENANCE**

- Mounted regulator, lubricator
- Test pressure gauge silicone filled
- Air pressure gauge
- Water inlet filter

### **ENCLOSED CABINET**

- Safer operation
- Quiet design
- Protection against component abuse and damage
- Convenient control location
- Heavy duty enclosure with handle

## PERFORMANCE DATA

MODEL NUMBER	MAXIMUM PRESSURE		CAPACITY AT 100 CM		PRESSURE RATIO	*MAXIMUM REQUIRED TO PRODUCE RATED FLOW AT MAXIMUM PUMP PRESSURE		AIR PRESSURE REQUIRED	
	psi	BAR	GPM	LPS		SCFM	SCMH	PSI	BAR
938-9210	1000	68.9	8.60	0.65	10:1	56	95.1	100	6.9
938-9236	3600	248.2	2.26	0.20	36:1	56	95.1	100	6.9
938-9299	10000	689.5	1.00	0.08	97:1	56	95.1	103	7.1

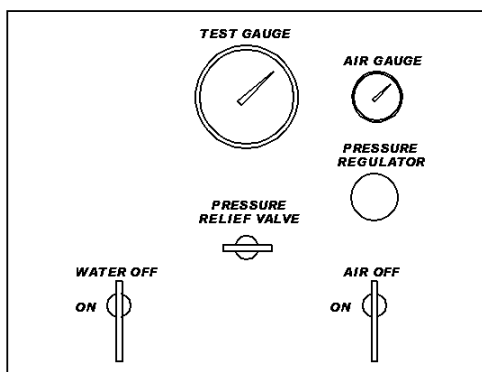
\* Total required SCFM to produce rated flow at maximum pump pressure. This is relevant only when the system is used for continuous injection at the maximum rated pressure. Normal testing requires much less SCFM to begin with and falls to 0 at stall test pressure.

**OTHER PRESSURES AND VOLUMES AVAILABLE UPON REQUEST. CONTACT FACTORY FOR DETAILS. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.**

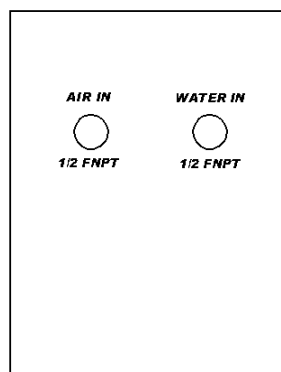
## WEIGHT AND DIMENSIONS

DEPTH		WIDTH		HEIGHT		APPROXIMATE	
in	mm	in	mm	in	mm	lbs	Kg
15	381.0	21	533.4	44	1117.6	100	45.4

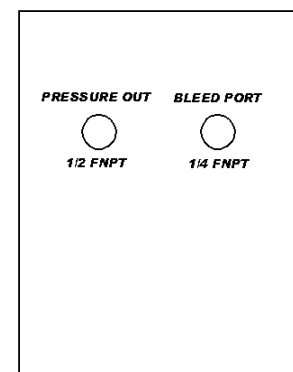
### **FRONT PANEL**



### **LEFT SIDE PANEL**



### **RIGHT SIDE PANEL**



**NOTE: SIDE PANEL CONNECTIONS MAY BE LOCATED ON REAR PANEL OF PUMP**

## **OPERATING INSTRUCTIONS**

### **CAUTION: READ INSTRUCTIONS BEFORE OPERATING THIS PUMP**

#### **TO SET UP PUMP: SEE FRONT AND REAR PANEL LAYOUTS ON PAGE 2**

1. Close the Air and Water Valves by turning to the "OFF" position. Close the Pressure Relief Valve by turning clockwise. (Front panel)
2. Set the Regulator to "0" by pulling up and fully turning counter clockwise. (Front panel)
3. Connect input air supply (120 psi maximum) and input water supply to inlet connections on pump. (Side or Rear panel)
4. Insure oil level in lubricator is above the minimum level. Use of a non-detergent air tool oil is recommended.
5. Connect the high-pressure hose to the pressure out connection on pump, leak tight. (Side or Rear panel)
6. Make appropriate leak tight connections to item being tested.
7. Turn Water valve to "ON" position. By turning counter-clockwise, open the Pressure Relief Valve to bleed air from pump for approximately ten seconds. (Front panel)
8. Close Pressure Relief Valve completely by turning clockwise. (Front panel)

**WARNING! NEVER LOOSEN ANY CONNECTION UNTIL YOU ARE ABSOLUTELY CERTAIN ALL PRESSURE HAS BEEN RELIEVED FROM THE SYSTEM.**

#### **METHOD OF HYDROTEST:**

**NOTE:** When testing small vessels, desired pressure will be attained quickly.

1. Confirm Regulator is set at "0" by pulling up and fully turning counter-clockwise.
2. Turn Air Valve to "ON" position. Turning the Regulator clockwise will start the pump. The pressure can be regulated by adjusting the Regulator clockwise to increase and counter-clockwise to decrease pressure. (Front panel)
3. When the test reaches the desired pressure, turn the Air Valve to the "OFF" position and push Regulator down. (Front panel)
4. Upon completion of the test, release the system pressure by opening the Pressure Relief Valve, counter-clockwise. (Front panel)
5. Turn the Water Valve to the "OFF" position and leave the Air Valve in the "OFF" position. Do not attempt to disconnect until all the water has been bled out of pump.
6. Pull up on the Regulator and return the Air Gauge to the "0" position by turning counter-clockwise. (Front panel)

938-92 OPERATING PROCEDURES B-STYLE HYDROSTATIC TEST PUMP.DOC Rev 04/24/2017