Pressure Switch and Check Valve Installation
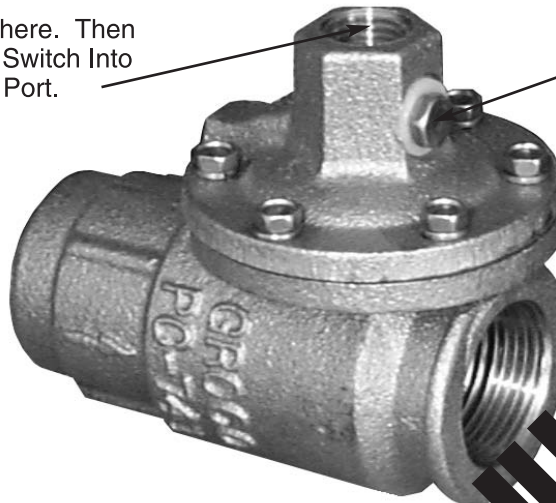# for C-60 & 80, WSC-60 & 80, PJR and PSR

000220

Fill with fresh water here. Then screw the Pressure Switch Into this 1/4" NPT Port.

After screwing in the pressure switch, loosen (but do not remove) this screw to bleed off excess air and/or water pressure.

Observe the Directional Flow Arrow. This side is the outlet side.

PC-741 Check Valve

PC-741 Check Valve: Our goal to manufacture the finest products available has led us through a series of design changes for pressure switches and check valves.

PC-741 Check Valve is standard equipment for C-60, 80, WSC-60, WSC-80 manufactured after 2/00, PJR and PSR pumps manufactured after 3/00. It is a recommended upgrade for all previously manufactured pressure pumps. PC-741 is designed to address the most common problem encountered with pressure switches in the marine environment - the aggressive nature of the liquid being pumped. In salt water, switches are subject to corrosion and salt build-up in the pressure-sensing throat of the switch, causing abnormal operation or switch failure.

In fresh water, the throat of the switch is subject to the build-up of scaling and sediment from the supply tanks, causing similar symptoms.

PC-741 is threaded on both ends for 3/4" FNPT and accepts any pressure switch with a 1/4" MNPT threaded port. The design features the environmental isolation of the pressure switch from the water being pumped through the system, so throat clogging, salt or sediment build-up, and corrosion are averted.

PC-741 Installation: Remove the old PC-740, PC-750, or P-9021 check valve. Screw PC-741 into place with 1/4" FNPT port facing up. Remove the plastic plug and fill the reservoir completely with tap water. Apply TFE thread tape to the pressure switch threads and screw in tightly.

Once the switch is tight and will not be moved again, bleed excess water pressure from the reservoir (you pressurized the reservoir when you screwed in the switch). Proper operation of the pressure switch depends on the complete absence of air in the reservoir. If abnormal pump operation is experienced upon start-up, check the water level in the reservoir and repeat the bleeding process.

We recommend the use of a drop of Loc-Tite #243 Thread Locker on the threads of the bleed screw before tightening.

Pressure Switches: We have offered many different pressure switches for use with our pumps. Following is a listing of the switches and pertinent facts relating to each.

Service Note: If you are replacing the pressure switch for C-60, C-80, WSC-60 or WSC-80 we recommend that you also replace the check valve with PC-741.

Model	Special Feature	Pressure Range	Adjustable	Ignition Protected	Available
3515AM		Any	Yes	No	No
3515ARB	Lo PSI cut-off	Any	Yes	No	No
69-A		Any	Yes	No	Yes
69-WFC	Lo PSI cut-off	Any	Yes	No	Yes
IPS-A		30-50	Yes	Yes	No
IPS-B		20-40	Yes	Yes	No
IPS-38		18-38	No	No	Yes
IPS-383	IPS-38 w/relay	18-38	No	No	Yes
IPS-40		18-40	No	Yes	Yes
IPS-50		30-50	No	Yes	Yes

January 15, 2001

Service Bulletin

Products affected: Pumps that use PC-741 check valve (PSR, PJR, PJR-A, C-60, C-80, WSC-60, and WSC-80)

Identification of PC-741: "PC-741" is cast into the check valve body. The assembly includes a diaphragm between two flanges, secured by six (6) hex bolts.

Serial Numbers: Beginning 0300 (March, 2000) and ending 0101 (January, 2001)

Background: Proper pump and pressure switch operation is reliant upon the upper chamber of PC-741 (into which the pressure switch is fastened) maintaining its reservoir of water. Some PC-741 check valves are not maintaining their water reservoir, and must be replaced.

Corrective action: Regardless of whether your pump is operating properly or not, we recommend replacement of PC-741 with P-9021-A, which is available at no-charge through 12/31/01. (The pressure switch does not need replacement.).

If you have unsold inventory: Return inventory to GROCO via surface UPS for prompt re-work.

If you have pumps already installed: You may perform the rework if you choose. It takes only a few minutes to complete. Alternately you may return the pumps to us for prompt re-work.

How to obtain P-9021-A: Contact GROCO via phone or FAX. Provide us with:

- The pump model number
- The pump serial number
- The owner's name

We will ship a replacement P-9021-A check valve with installation instructions at no-charge to you (or to your customer) via surface UPS. The old parts should be discarded.

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