Instructions for Nitrogen Gas Precharge of AccuMight™ Hydraulic Accumulators:

FOR CHECKING OR REDUCING NITROGEN PRECHARGE: For this operation, the hose assembly is not needed. Relieve all hydraulic system pressure on equipment making sure AccuMight™ is relieved of all hydraulic pressure. Remove protective cap (Y) and valve cap (X) from the gas charging valve on the accumulator and attach the gauging and head assembly, item (13) to the gas valve with item (2) air chuck. Make sure "T" handle is backed off by turning counter clockwise until stopped. Screw in bottom section of air chuck (2) hand tight only. A small wrench may be used to tighten, but use caution, the seal is soft and does not need much torque. Screw "T" handle clockwise and read pressure on Gauge (1). If pressure is too high, bleed very slowly using bleed valve (9) until desired pressure is attained. Tighten bleed valve (9) and then remove air chuck by turning bottom section counter-clockwise. AccuMight ™ is now ready for use.

TO ADJUST NITROGEN PRECHARGE TO A HIGHER SETTING: To precharge or increase the precharge pressure of the AccuMight™, remove the protective cap (Y) and valve cap (X), and attach gauging and head assembly (13) using the bottom portion of the air chuck (2). Leaving the "T" handle backed off counter-clockwise, and the bleed valve (9) closed, attach hose to nitrogen bottle with nut (11, CGA-580). Close the "T" handle on air chuck (2) all the way. Very carefully and slowly open the valve on top of the nitrogen bottle, using care not to exceed 25 psi at a time when filling. Check the pressure gauge (1) until the desired precharge level is attained. Adjust the pressure slightly higher than the actual set pressure. Close the valve on the nitrogen bottle, back off "T" handle on air chuck (2), make sure bleed valve (9) is closed. Wait a few minutes for the temperature to stabilize. Then screw the "T" handle down and read pressure on gauge (1). If the pressure is correct, remove gauging and head assembly from accumulator by backing off bottom of air chuck (2). If the precharge pressure is incorrect, adjust accordingly using same procedure as above.

PLEASE NOTE:

- **use dry nitrogen gas only.**
- **standard bladders are made of buna nitrile.**
- **precharging pressure must be higher than 25% of the maximum and lower than 90% of the minimum operating pressure of the pump.**
- **check the precharge every 2-3 months and, if necessary, recharge the accumulator.**

BLADDER REPLACEMENT OF ACCUMIGHT™ HYDRAULIC ACCUMULATORS:

1 • Release pressure in hydraulic system **completely.**
2 • Check that the AccuMight™ is completely empty of gas by checking with gauging and head assembly (12). If AI-CG3-000-SS charging and gauging assembly is not available, depress valve core with small screw driver to release all nitrogen gas.
3 • Unscrew and remove completely the gas charging valve.
4 • Unscrew upper portion of AccuMight™ with band wrench.
5 • Remove bladder.
6 • Thoroughly clean interior of accumulator.
7 • Apply small amount of compatible grease or Vaseline® on seat.
8 • Insert new bladder.
9 • Discard and replace "o" ring.
10 • Thoroughly tighten upper section of AccuMight™
11 • Install gas valve.
12 • Precharge AccuMight™ to desired level.

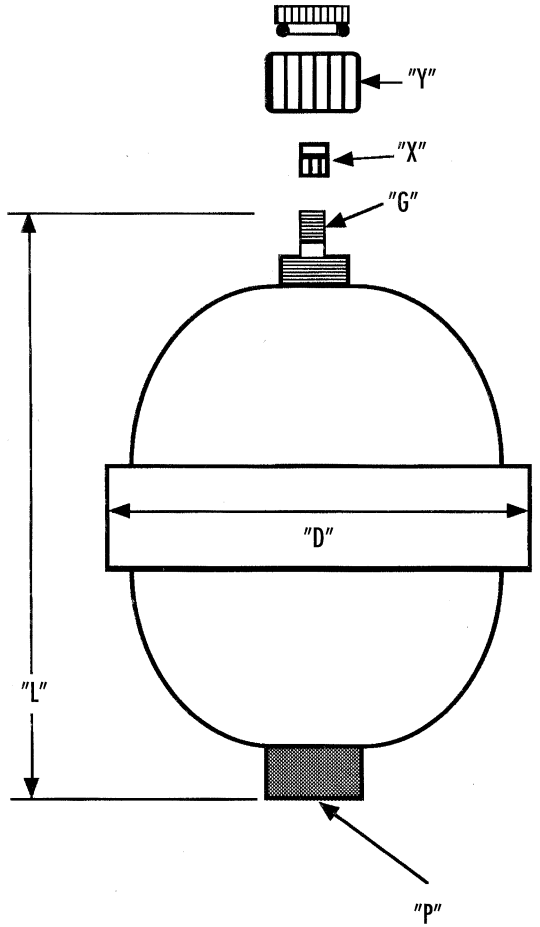
WARNING:

Use NITROGEN GAS ONLY to prevent explosions!

- Before checking gas precharge or increasing / decreasing pressure, make sure AccuMight™ is completely empty on the liquid side. When replacing the bladder, coat interior of shell with fluid being used in the system to lubricate bladder on start up.

VERY IMPORTANT:

Before installation, make sure hydraulic system pressure does not exceed maximum allowed stamped on AccuMight™
precharge pressure is correct and corresponds with the operating conditions.
wrong precharge pressure will result in poor performance and curtail the life of the bladder.
make sure safety relief valve in hydraulic system does not exceed maximum allowable working pressure of AccuMight™ hydraulic accumulator.
check precharge within one week after start up and every 2-3 months thereafter.



Size*	Part Number	"L"	"D"	"P"	"G"
6 cu. in.	AM 6 31003	5.4	3.0	3/4-16 UNF	.305-32UNEF
20 cu. in.	AM 20 31003	6.2	3.8	"	"
30 cu. in.	AM 30 31003	6.9	4.5	"	"
45 cu. in.	AM 45 31003	7.2	5.4	11/16-12 UNF	"
90 cu. in.	AM 90 31003	11.4	5.4	"	"
150 cu. in.	AM 150 31003	17.4	5.4	"	"

*Nominal Volume

Accumulators, Inc.