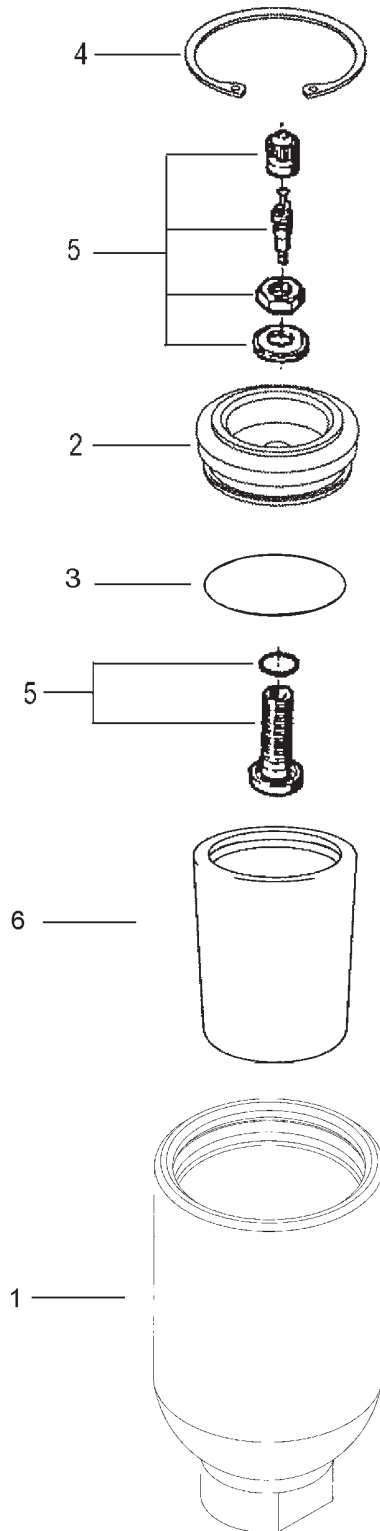


# Model 22185

## Rebuildable Stainless Steel Accumulator



ITEM	PART #	DESCRIPTION	QTY
1	22186B	Body	1
2	22052B	Top, S.S.	1
3	05640	O-Ring	1
4	22054A	Snap Ring	1
5	22036*	Valve Assembly	1
6	22026	Bladder	1

\*(Sold only as one unit and includes valve, valve core, nut, valve cap o-ring and washer)

### OPERATING CONDITIONS

	U.S.	Metric
Maximum Flow:	6 GPM	22.7 L/min
Maximum Pressure:	3000 P.S.I.	207 Bar
Maximum Temperature:	200 °F	93 °C
Maximum Pressure Precharge:	1500 PSI	103 Bar
Connection:	3/8" FNPT	
Capacity:	4.2 in <sup>3</sup>	68.8 ml
Burst Strength:	12,000 PSI	828 Bar

**NOTE:** Precharge pressure is always one-half operating pressure. Unless requested, all pulsation dampeners (accumulators) will be charged to 500 PSI.

\* For re-charging, order refill valve (p/n 20000).



**WARNING:** This product might contain a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# INSTALLATION & OPERATING INSTRUCTIONS

It is recommended that the Accumulator be mounted pointing down as a safety precaution. This mounting procedure also allows the Accumulator to remain cooler during system operation and prolongs the effective operating life of the accumulator bladder.

**NOTE:** Shelf life of the nitrogen pre-charge of Accumulators is approximately six months before recharge is necessary.

Giant recommends the nitrogen pre-charge be checked approximately every three (3) months after Accumulator is installed in a pressure system.

**CAUTION:** Accumulator is to be pre-charged with nitrogen to one-half of the system operating pressure. Do not pre-charge beyond the rated operating pressure.

**WARNING:** Always fully discharge nitrogen pre-charge from bladder before attempting any repairs.

## REPAIR INSTRUCTIONS

- 1) Discharge nitrogen from bladder by pressing on the valve stem with a small rod or screwdriver. **Caution:** Never attempt to discharge using your finger or fingernail or contents will form a frost upon release.
- 2) Remove snap ring (item #4) using a standard snap ring pliers. To remove bladder and cap, insert a wood or brass rod through the inlet and tap sharply. **Note:** If bladder is removed, a new bladder must be installed for proper operation.
- 3) Carefully inspect inside surfaces of the body (item #1) for signs of wear. Worn surfaces will cause accelerated wear on the bladder and premature failure.
- 4) Next, inspect o-ring (Item #3) for damage. Replace if necessary.
- 5) Clean all parts that are to be reused paying special attention to the outside surfaces of the cap (item #2). Be sure to remove all old sealant. Valve assembly (item #5) can be serviced now if necessary.
- 6) Coat inside diameter of the bladder using "PRO P-25 Professional Bead Sealer" or other similar sealant. Coat only the top 1" of the bladder.
- 7) Install cap/valve assembly in bladder. Coat outside diameter of bladder and o-ring with oil or grease. Insert bladder/cap assembly into body as far as it will go by hand. Now with a large socket and a hammer or arbor press, install the assembly until the top of the cap clears the snap ring groove. Make sure assembly is not cocked.
- 8) Replace the snap ring so that the sharp edge of the ring is visible.
- 9) Charge bladder with nitrogen to 1/2 of the system operating pressure not to exceed 1500 PSI.
- 10) **Never** use any gas other than nitrogen to charge the bladder.



Giant Industries, Inc.  
900 N. Westwood Ave., Toledo, Ohio 43607  
419-531-4600 Fax: 419-531-6836  
[www.giantpumps.com](http://www.giantpumps.com)