# Accumulator Accessories

For Piston, Bladder and Diaphragm Accumulators, Gas Bottles, SurgeKushons and PulseTones

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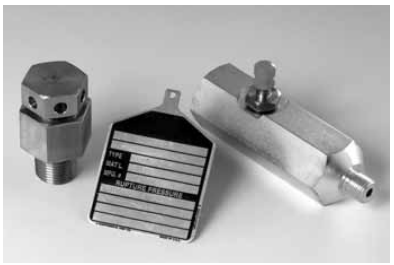
















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## Charging & Gauging Assemblies

Charging and Gauging Assembly consists of 10' charging hose with standard right-hand thread nitrogen fittings, adapter incorporating gas valve, bleeder valve and gas chuck. Assemblies are packed in a plastic storage case. Gauge not included.




Assemblies Packed in Carrying Case

| 3000 PSI Charging & Gauging Assemblies (with 3000 PSI Gauge) | | | |
|---|---|---|---|
| Part Number | Piston Style | Bladder Style | Diaphragm Style |
| 144595 3000 | All | All* | with Cored valve |
| 144596 3000 | All | All* | with Cored valve |
| 148675 3000 | — | — | with M28 valve |
| 087100 3000 | — | 1-15 gal.* | — |
| 087102 3000 | — | 10-150 Cl* | — |
| **4000/5000 PSI Charging & Gauging Assemblies (with 5000 PSI Gauge)** | | | |
| 870816 5000 | All | All | — |

** Used primarily for top repairable accumulators and/or permanent mount gauge.*

## Gauges

Gauges are 2½" dial type pressure gauges with 100 PSI graduation. Include blowout safety case and orifice surge damper.

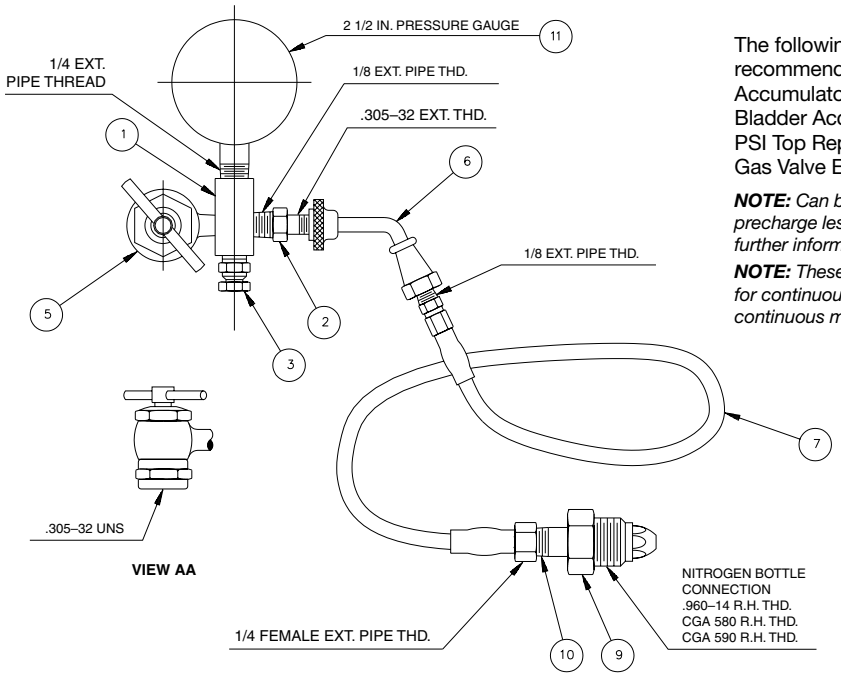
| Part Number | Pressure Range |
|---|---|
| 087040 1000 | 0 - 1000 PSI |
| 087040 2000 | 0 - 2000 PSI |
| 087040 3000 | 0 - 3000 PSI |
| 087040 4000 | 0 - 4000 PSI |
| 087040 6000 | 0 - 6000 PSI |



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## 3000 PSI Piston and Bladder Accumulators, Diaphragms with Cored Valve (B Option)




The following assemblies and parts are recommended for use on all 3000 PSI Piston Accumulators and 3000 PSI Bottom Repairable Bladder Accumulators. Can be used with 3000 PSI Top Repairable Accumulators, but require a Gas Valve Extension.

***NOTE:*** *Can be used on all accumulators with a gas precharge less than 3000 PSI. Consult factory for further information.*

***NOTE:*** *These assemblies are not recommended for continuous monitoring of gas precharge. For continuous monitoring, see Gauging Adapters.*

| Item | Part Number | Description |
|---|---|---|
| 1-10 | 1445950000 | Standard Assembly with Right Hand (RH) Nitrogen Bottle Connection, No Gauge |
| 1-11 | 1445950500 | Standard Assembly RH Connection with 500 PSI Gauge |
| 1-11 | 1445951000 | Standard Assembly RH Connection with 1000 PSI Gauge |
| 1-11 | 1445952000 | Standard Assembly RH Connection with 2000 PSI Gauge |
| 1-11 | 1445953000 | Standard Assembly RH Connection with 3000 PSI Gauge |
| 1-10L | 1445960000 | Optional Assembly with Left Hand (LH) Nitrogen Bottle Connection, No Gauge |
| 1-5 | 0851220000 | Gauging Assembly, No Hose or Gauge |
| 1-5H | 5420880000 | Optional Gauging assembly w/ 2" Hose Ext. between Gas Chuck (5) and Adapter Cross (1), No Hose or Gauge |
| 6-10 | 1457810000 | Hose Assembly with RH Connection |
| 6-10L | 1457820000 | Hose Assembly with LH Connection |
| 1 | 5420910000 | Adapter Cross |
| 2 | 5420920000 | Gas Valve with 1/8" NPT |
| 3 | 0832140000 | Bleeder Valve |
| 5* | 8708150000 | Gas Chuck |
| 6** | 5420860000 | Hose Coupling with Female Thread Connection |
| 7 | 0870520000 | Charging Hose |
| 9 | 6661250000 | Nitrogen Bottle Nut with RH Connection (CGA 580) |
| 9L | 6661260000 | Nitrogen Bottle Nut with LH Connection (CGA 590) |
| 10 | 6661240000 | Nitrogen Bottle Nipple |
| 11 | See Gauges | 2.5" Pressure Gauge SAE #6 |
| | 1333290000 | Case with Insert for Complete Charging and Gauging Assembly |
| * | 5824390000 | Gasket for 5422150000 (5) |
| ** | 8702770000 | Gasket for 5420860000 (6) |



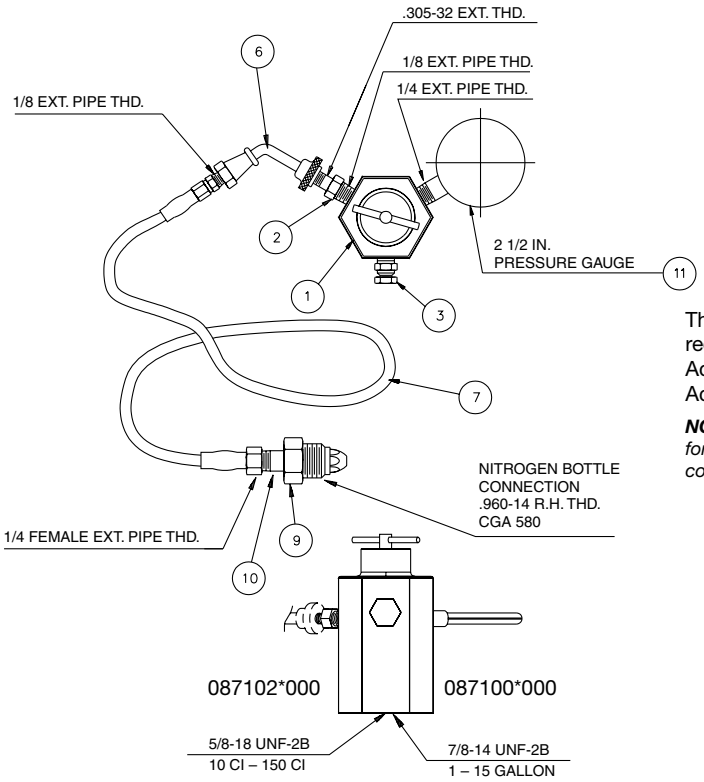


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## A 10-150 cu in Bladders (087102*000)

## B 1-15 gal Bladders (087100*000)




The following assemblies and parts are recommended for use on all 3000 PSI Bladder Accumulators. Cannot be used with Piston Accumulators.

***NOTE:*** *These assemblies are not recommended for continuous monitoring of gas precharge. For continuous monitoring, see Gauging Adapters.*

| | Item | Part Number | Description |
|---|---|---|---|
| A | 1-10 | 0871020000 | Standard Assembly for 10 to 150 Cubic Inch with RH Nitrogen Bottle Connection, No Gauge |
| | 1-11 | 0871021000 | Standard Assembly for 10 to 150 Cubic Inch with RH Connection with 1000 PSI Gauge |
| | 1-11 | 0871022000 | Standard Assembly for 10 to 150 Cubic Inch with RH Connection with 2000 PSI Gauge |
| | 1-11 | 0871023000 | Standard Assembly for 10 to 150 Cubic Inch with RH Connection with 3000 PSI Gauge |
| | 1S-5 | 0871030000 | Gauging Assembly for 10 to 150 Cubic Inch (No Hose or Gauge) |
| B | 1-10 | 0871000000 | Standard Assembly for 1 to 15 Gallon with RH Nitrogen Bottle Connection, No Gauge |
| | 1-11 | 0871001000 | Standard Assembly for 1 to 15 Gallon with RH Connection with 1000 PSI Gauge |
| | 1-11 | 0871002000 | Standard Assembly for 1 to 15 Gallon with RH Connection with 2000 PSI Gauge |
| | 1-11 | 0871003000 | Standard Assembly for 1 to 15 Gallon with RH Connection with 3000 PSI Gauge |
| | 1-5 | 0871010000 | Gauging Assembly for 1to 15 Gallon (No Hose or Gauge) |
| | 6-10 | 1457810000 | Hose Assembly with RH Connection |
| | 2 | 5420920000 | Gas Valve with 1/8" NPT |
| | 3 | 0832140000 | Bleeder Valve |
| | 6* | 5420860000 | Hose Coupling with 0.305-32 Female Thread Connection |
| | 7 | 0870520000 | Charging Hose |
| | 9 | 6661250000 | Nitrogen Bottle Nut with RH Connection (CGA 580) |
| | 10 | 6661240000 | Nitrogen Bottle Nipple (CGA 580) |
| | 11 | See Gauges | 2.5" Pressure Gauge |
| | * | 8702770000 | Gasket for 5420860000 (6) |
| | | 1353290000 | Case with Insert for Complete Charging and Gauging Assembly |



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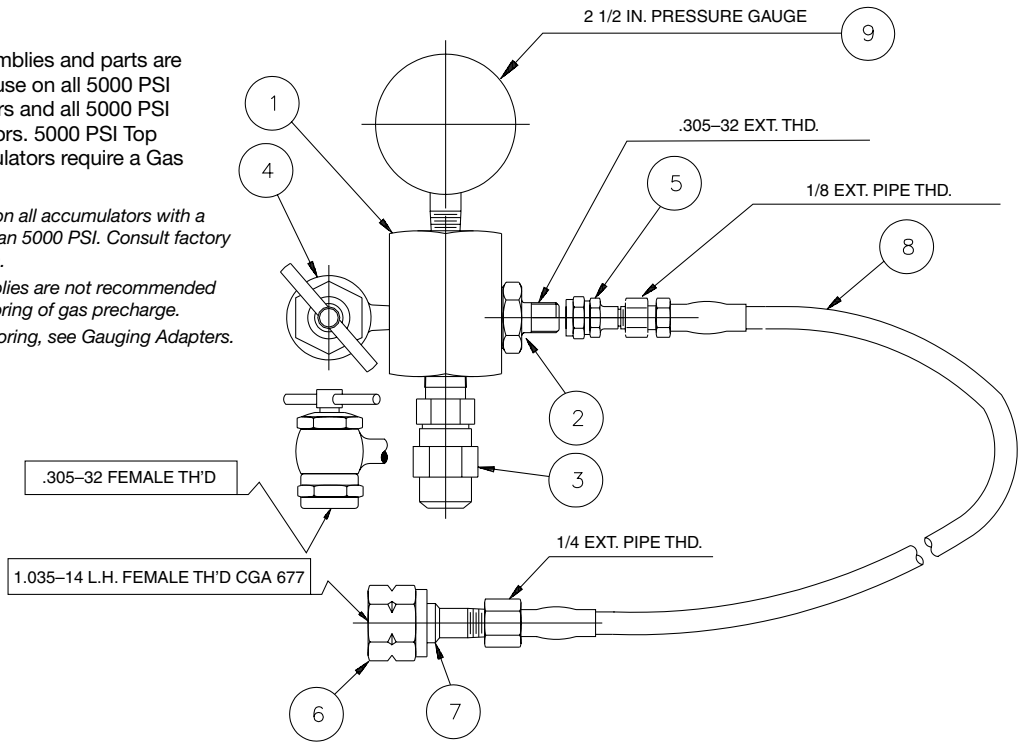
## 4000 & 5000 PSI Piston and Bladder Accumulators

The following assemblies and parts are recommended for use on all 5000 PSI Piston Accumulators and all 5000 PSI BladderAccumulators. 5000 PSI Top Repairable Accumulators require a Gas Valve Extension.

***NOTE**: Can be used on all accumulators with a gas precharge less than 5000 PSI. Consult factory for further information.*

***NOTE:** These assemblies are not recommended for continuous monitoring of gas precharge.*

*For continuous monitoring, see Gauging Adapters.*




| Item | Part Number | Description |
|---|---|---|
| 1-8 | 8708160000 | Standard Assembly with Left Hand (LH) Connection, No Gauge |
| 1-9 | 8708165000 | Standard Assembly LH Connection with 5000 PSI Gauge |
| 1-9 | 8708166000 | Standard Assembly LH Connection with 6000 PSI Gauge |
| 1-4 | 8713720000 | Gauging Assembly (No Hose or Gauge) |
| 5-8 | 8712640000 | Hose Assembly with LH Connection |
| 1 | 8708460000 | Adapter Cross |
| 2 | L07688000K | Gas Valve Assembly |
| 3 | 8708140000 | Bleed Valve |
| 4 | 8708150000 | Gas Chuck |
| 5 | 0854210000 | Valve Connector |
| 6 | 0854220000 | Nitrogen Bottle Nut with LH Connection |
| 7 | 0854250000 | Gas Tank Nipple (CGA 677) |
| 8 | 0854150000 | Charging Hose (10 ft.) |
| 9 | See Gauges | 2.5" Pressure Gauge |





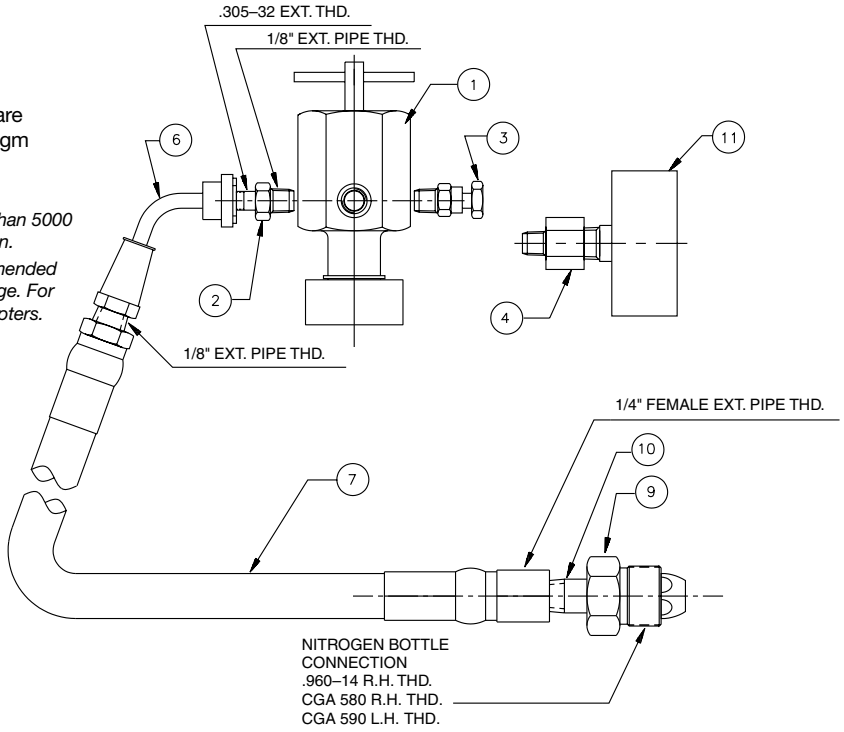
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## Diaphragm with M28 Gas Valve

The following assemblies and parts are recommended for use on all Diaphragm Accumulators with M28 Gas Valve.

***NOTE:*** *Can be used on all diaphragm accumulators with a gas precharge less than 5000 PSI. Consult factory for further information.*

***NOTE:*** *These assemblies are not recommended for continuous monitoring of gas precharge. For continuous monitoring, see Gauging Adapters.*




| Item | Part Number | Description |
|---|---|---|
| 1-10 | 1486750000 | Standard Assembly with Right Hand (RH) Nitrogen Bottle Connection, No Gauge |
| 1-11 | 1486751000 | Standard Assembly RH Connection with 1000 PSI Gauge |
| 1-11 | 1486752000 | Standard Assembly RH Connection with 2000 PSI Gauge |
| 1-11 | 1486753000 | Standard Assembly RH Connection with 3000 PSI Gauge |
| 1-11 | 1456755000 | Standard Assembly RH Connection with 5000 PSI Gauge |
| 1-10L | 8700430000 | Optional Assembly with Left Hand (LH) Nitrogen Bottle Connection, No Gauge |
| 1-4 | 8702780000 | Gauging Assembly (No Hose or Gauge) |
| 6-10 | 1457810000 | Hose Assembly with RH Connection |
| 6-10L | 1457820000 | Hose Assembly with LH Connection |
| 1 | | |
| 2 | 5420920000 | Gas Valve with 1/8" NPT |
| 3 | 0832140000 | Bleeder Valve |
| 4 | 0873930000 | Reducer – 1/4 x 1/8 |
| 6* | 5420860000 | Swivel Connector with Female Thread Connection |
| 7 | 0870520000 | Charging Hose |
| 9 | 6661250000 | Nitrogen Bottle Nut with RH Connection (CGA 580) |
| 9L | 6661260000 | Nitrogen Bottle Nut with LH Connection (CGA 590) |
| 10 | 6661240000 | Nitrogen Bottle Nipple |
| 11 | See Gauges | 2.5" Pressure Gauge |
| * | 8702770000 | Gasket for 5420860000 (6) |
| | 1353290000 | Case with Insert for Complete Charging and Gauging Assembly |



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## Gauging Assemblies

Gauging Assembly consists of adapter incorporating gas valve, bleeder valve and gas chuck (less gauge).

| 3000 PSI | | | |
|---|---|---|---|
| **Part Number (Assembly only)** | **Piston Styles** | **Bladder Styles** | **Diaphragm Styles** |
| 085122 0000 | All | All | w/Cored valve |
| 087101 0000 | — | 1-15 gal. | — |
| 087103 0000 | — | 10-150 CI | — |
| **4000/5000 PSI** | | | |
| 871372 0000 | All | All | — |



0851220000



871372 0000



0871030000



0871010000

## Gauging Adapters (Fixed Mount)

For continuous monitoring of gas precharge. Order gauge separately.

| Part Number | Description |
|---|---|
| 086213 0000 | For 10-150 CI Bladder Accumulators (3000 PSI only) – includes gas valve |
| 085057 0000 | For 1 Gal. and above bladder and all piston accumulators (3000 - 5000 PSI) |



086213 0000



085057 0000

## Unloading Valve

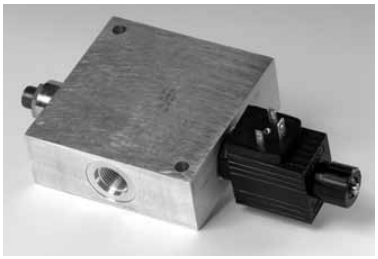
Unloading valves provide cost effective safety for your hydraulics by relieving hydraulic pressure when the system is de-energized. Valves conform to OSHA Rule 29CFR1910.147 to enhance safe system operation. Needle valve allows for manual accumulator bleed-down.

### How to Order Unloading Valves

DV Series unloading valves can be specified by using the symbols in the chart below to develop a model number. Select only those symbols that represent the features desired, and place them in the sequence indicated by the example at the top of the chart.

### Features

- Lightweight aluminum housing
- 2-way normally open solenoid
- 3000 PSI operating pressure
- Encapsulated 17W Solenoid
- Four standard voltage and connection options
- Fluorocarbon seals standard
- Small compact manifold design
- Leakproof SAE ports standard
- Needle valve override
- 10 GPM flow rate @ 3000 PSI
- 8 GPM @ 2000 PSI average



| Series | Size | Coil Voltage | Coil Connection | Ports |
|---|---|---|---|---|
| DV | 10 | A | D | C |

**DV** Accumulator Unloading Valve

**A** 120/110 VAC, 60/50 Hz
**B** 240/220 VAC, 60/50 Hz
**C** 12 VDC
**D** 24 VDC

**C** 1/2 NPTF Conduit Connector with 24" Class H Wires
**D** DIN 43650 (Hirschmann Plug)
**P** SAE 18-0.25 SAE Double Spade (DC Only)
**W** Double Wire 24" Class H (DC Only)

**C** SAE #8 Accumulator and Tank Ports, SAE #5 Test Port





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## Accumulator Repair Tools



**1. Bladder Pull Rods —** (Bladder Type Accumulator) Pull rods are available in different lengths for different size accumulators. The pull rods attach to the gas valve of the bladder for ease of assembly into shell during reassembly.

**2. Core Tool —** The core tool is used to remove and reinstall the valve core. It is also used to ream valve seat and repair threads.

**3. Spanner Wrench —** Fits all standard size bladder accumulators. Used to remove hydraulic poppet assembly from accumulator shell.

| Description | Part No |
|---|---|
| Pull Rod (1 Qt.-21/ 2 Gal.) | 085109 0250 |
| Pull Rod (5 Gal.) | 085109 0500 |
| Pull Rod (10-11 Gal.) | 085109 1000 |
| Pull Rod (15 Gal.) | 085109 1500 |
| Core Repair Tool | 582441 0000 |
| Core Installation Tool | 300987 |
| Spanner Wrench | 085110 0000 |

## Port Adapters



| SAE to SAE Port Adapters | |
|---|---|
| **Part Number** | **Description** |
| 562684000 | 24 SAE to #20 SAE |
| 562685000 | 24 SAE to #16 SAE |
| 562686000 | 24 SAE to #12 SAE |
| 562687000 | 20 SAE to #16 SAE |
| 562688000 | 20 SAE to #12 SAE |
| 562689000 | 20 SAE to #10 SAE |
| 086473000 | 16 SAE to #12 SAE |
| 562690000 | 12 SAE to #10 SAE |
| 562691000 | 12 SAE to #8 SAE |
| 572086000 | 32 SAE to #24 SA |
| 572087000 | 32 SAE to #20 SAE |
| 572088000 | 32 SAE to #16 SAE |
| **SAE to NPT Port Adapters** | |
| **Part Number** | **Description** |
| 562681000 | 24 SAE to 1-1/2" NPT |
| 562682000 | 20 SAE to 1-1/4" NPT |
| 562683000 | 12 SAE to 3/4" NPT |
| 572089000 | 32 SAE to 2" NPT |
| 6560070001 | #12 SAE to 1/2" NPT |
| 6560070002 | #20 SAE to 1" NPT |



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## "U" Bolts for Piston & Bladder-Type Accumulators

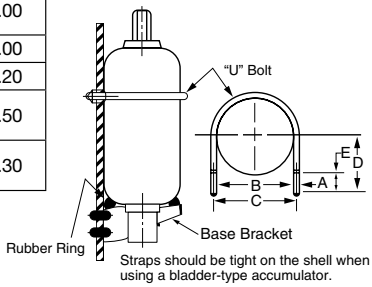
| Accumulator Models (2000 / 3000 PSI) | | Part No. and Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Piston Bore** | **Bladder Size** | **"U" Bolt Part No.** | **A** | **B** | **C** | **D** | **E** | **Thd.** | **Wt. Lbs.** |
| A2 | — | 0854370000 | 0.250 | 2.438 | 2.688 | 2.688 | 1.750 | 1/4-20 | 0.20 |
| A3 | 1 Pint | 0862090000 | 0.500 | 3.688 | 4.063 | 3.625 | 2.000 | 3/8-16 | 0.90 |
| — | 1 Quart | 0854380000 | 0.500 | 4.625 | 5.125 | 4.500 | 3.000 | 1/2-13 | 1.20 |
| A4 | — | 0864960000 | 0.500 | 5.000 | 5.500 | 4.500 | 3.000 | 1/2-13 | 1.30 |
| — | 1 Gallon | 0854390000 | 0.625 | 6.750 | 7.375 | 6.125 | 3.750 | 5/8-11 | 2.40 |
| A6 | — | 0864970000 | 0.625 | 7.125 | 7.750 | 6.125 | 3.750 | 5/8-11 | 2.50 |
| A7 | — | 0854400000 | 0.625 | 8.250 | 8.875 | 7.000 | 3.750 | 5/8-11 | 3.00 |
| — | 2.5 to 15 | 0853360000 | 0.625 | 9.000 | 9.625 | 7.125 | 3.750 | 5/8-11 | 3.00 |
| A9 | — | 0854410000 | 0.750 | 11.250 | 12.000 | 9.500 | 4.500 | 3/4-10 | 6.00 |
| A12 (2K) | — | 0854420000 | 0.875 | 14.125 | 15.000 | 10.250 | 4.250 | 7/8-9 | 8.20 |
| — | 2.5 to 15* | 0865020000 | 0.625 | 9.750 | 10.375 | 7.250 | 3.750 | 5/8-11 | 3.50 |
| A12 (3K) | — | 0865610000 | 0.875 | 14.500 | 15.375 | 10.625 | 4.250 | 7/8-9 | 8.30 |

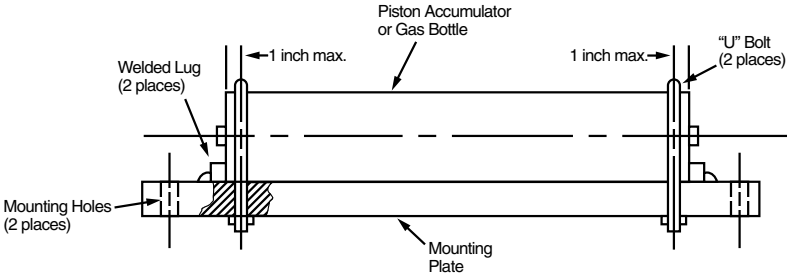
***NOTE:*** *"U" Bolts should never be mounted more than 1 inch from end of accumulator (piston type).*

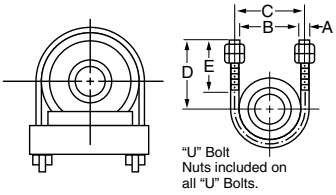
**Bladder-Type Accumulator**

Bladder-type accumulators should be mounted vertically with the hydraulic port down.

**CAUTION:** Bladder-type accumulators should never be mounted more than 25° angle from the vertical.

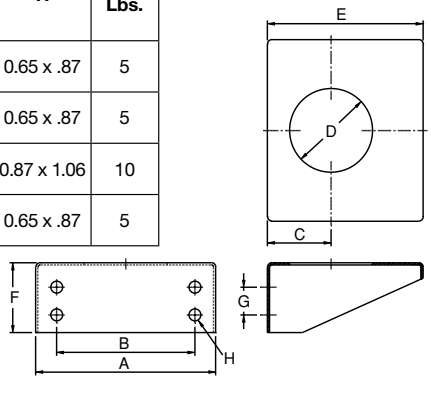



## Base Bracket Assembly for Bladder Accumulators

| Accumulator Models | Part Number and Dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Bladder Size** | **Base Bracket Assembly Part No. (included rubber rings)** | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **Wt. Lbs.** |
| 1 Gal. (3K) | 1449100000 | 10.3 | 7.87 | 3.62 | 4.75 | 8.87 | 3.85 | 1.58 | 0.65 x .87 | 5 |
| 2½ -15 Gal. (3K) | 1448720000 | 10.3 | 7.87 | 4.84 | 6.75 | 8.87 | 3.85 | 1.58 | 0.65 x .87 | 5 |
| 25-40 Gal. (3K) | 1480020000 | 15.3 | 10.6 | 7.68 | 8.18 | 15.3 | 9.40 | 4.18 | 0.87 x 1.06 | 10 |
| 2½ -15 Gal. (5K) | 1481410000 | 10.3 | 7.87 | 5.35 | 6.75 | 8.87 | 3.85 | 1.58 | 0.65 x .87 | 5 |








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## Clamp Brackets for Bladder-Type Accumulators

| Bladder Size | Clamp Part No. | Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C Max. | D Max. | E | F | G | Wt. Lbs. |
| 1 Qt., 150 C.I. (Figure A) | 1466230000 | 4.5 | 3.9 | 5.5 | 6.3 | 2.6 | .35 x .51 | 1.2 | 1.8 |
| 1 Gal. (Figure A) | 1449080000 | 6.8 | 6.3 | 7.6 | 8.5 | 3.6 | .35 x .51 | 1.2 | 2.7 |
| 2½ -15 Gal. (3K) (Figure B) | 1449070000 | 9.0 | 8.5 | 10.0 | 11.7 | 4.8 | .50 x .75 | 1.2 | 4.2 |
| 2½ -15 Gal. (5K) (Figure B) | 1349200000 | 9.5 | 8.5 | 10.5 | 12.0 | 5.4 | .50 x .75 | 1.2 | 4.5 |

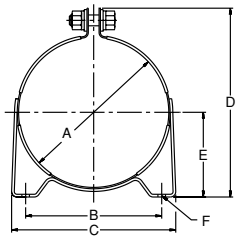



Figure A

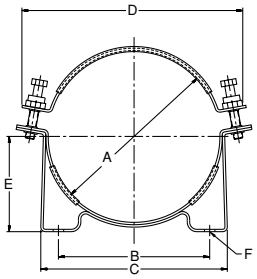
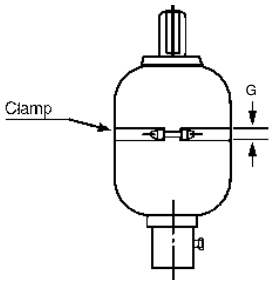
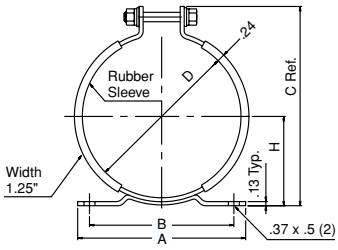



Figure B




## Clamp Brackets for Diaphragm and Small Piston and Bladder Accumulators

| Part No. | Dimensions | | | | | Accumulator Style/Size | | |
|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | H | Diaphragm liters/cu in | Piston bore/series | Bladder liters/cu in |
| 8700110238 | 4.25 | 3.35 | 4.29 | 2.25 / 2.41 | 1.58 | — | 2" / 3K | 0.16 / 10 |
| 8700110252 | 4.25 | 3.35 | 4.42 | 2.62 / 2.82 | 1.64 | 0.075 / 5 | 2" / 4-5K | — |
| 8700110291 | 4.25 | 3.35 | 4.84 | 2.81 / 3.01 | 1.86 | 0.16 / 10 | — | — |
| 8700110358 | 5.00 | 3.94 | 5.62 | 3.35 / 3.62 | 2.28 | 0.35 / 20 | 3" / 3-4K | 0.50 / 30 |
| 8700110413 | 5.25 | 4.33 | 6.06 | 4.04 / 4.22 | 2.45 | 0.50 / 30 | 3" / 5K | — |
| 8700110476 | 5.25 | 4.33 | 6.71 | 4.55 / 4.90 | 2.77 | 0.75 / 45 | 4" / 3K | 1-3 / 60-150 |
| 8700110500 | 5.25 | 4.33 | 6.71 | 4.82 / 5.15 | 2.95 | 0.75 / 45 | 4" / 4K | — |
| 8700110535 | 5.75 | 4.92 | 7.43 | 5.32 / 5.50 | 3.21 | 1.0 / 60 | — | — |
| 8700110598 | 7.00 | 5.98 | 7.96 | 5.85 / 6.15 | 3.40 | — | — | — |
| 8700110630 | 7.00 | 5.98 | 8.29 | 6.15 / 6.37 | 3.57 | 1.4 / 85 & 2.0 / 120 | — | — |
| 1449080000 | 7.60 | 6.30 | 8.50 | 6.80 | 3.60 | 2.8 / 170 | — | — |




## Clamp Brackets for Series 4000 & Series 5000 Piston Accumulators

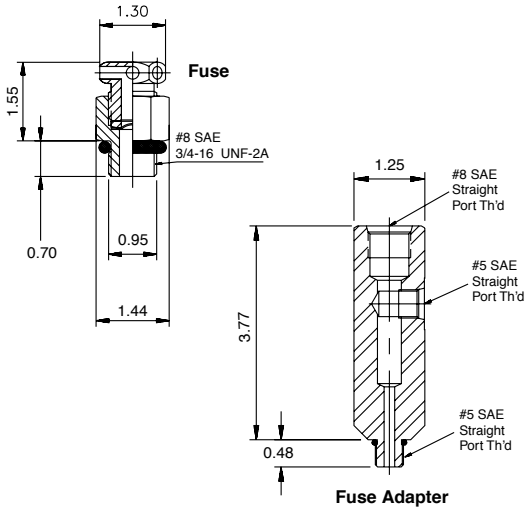
| Piston Bore Size | Series 4000 Part Number | Series 5000 Part Number |
|---|---|---|
| 2" | 8700110252 | 8700110252 |
| 3" | 8700110358 | 8700110413 |
| 4" | 8700110535 | 87001100535 |
| 6" | — | — |
| 7" | N/A | – |
| 9" | N/A | – |



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## Safety Fuse Options (F)

Safety Fuses are used as a safety device on accumulators and gas bottles to prevent over-pressurization of gas due to external heat or hydraulic pressure (set at 140% of maximum system pressure to avoid rupture disk fatigue and premature failure). The rupture disks are calibrated to rupture at a predetermined pressure. Safety fuses are available on most sizes of piston and bladder accumulators and gas bottles. Safety fuses can be installed on all piston accumulators by using the "Fuse Adapter" as shown to the right. 4" bore units and above can be equipped with a fuse port machined in the gas cap by specifying the "Safety Fuse Option" (F) at the time of order in the model code, see "How to Order." The safety fuse assembly and/or fuse adapter must be ordered separately.




| Description | Part Number |
|---|---|
| Safety Fuse Assembly[1] | 086471xxxx |
| Replacement Rupture Disks | 756003xxxx |
| Fuse Adapter | 1468970002 |

*[1] Assembly includes housing and rupture disk, xxxx = pressure setting in 100 PSI increments, i.e., for an assembly with a 2000 PSI setting, order P/N 0864712000.*

***Note:** ASME and CRN units available upon request.*



Safety Fuse Housing



Safety Fuse/Burst Disk




Safety Fuse Name Plate

| Part Number | Description |
|---|---|
| 0864710000 | Safety Fuse Housing SAE #8 |
| 7560010000 | Safety Fuse Housing 1/2" NPT |
| 7560033000 | 3000 PSI Safety Disk |
| 7560034500 | 4500 PSI Safety Disk |
| 7560035000 | 5000 PSI Safety Disk |
| 1468970002 | Safety Fuse Adaptor SAE #5 Male,SAE #8 Fuse Housing |
| 1468970001 | Safety Fuse Adaptor SAE #5 Male, 1/2" NPT Fuse Housing |

***Note:** Other pressures offered. Consult factory.*





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**Notes**



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