**Automatic Pressure Regulator**

**Integral Regulator For Admiral Pumps:** WE - WG - WEL - XLS - XLE - XLG bolt on for Admiral and Legacy Pumps. Trapped pressure regulator specifically designed for use on the Admiral plunger pumps. Integral inlet, bypass and outlet eliminates the need for bypass hose.

- 6 GPM
- 3200 PSI
- 195°F
- Forged brass body
- 1/2" MPT inlet
- 3/8" MPT outlet
- Stainless steel plunger & seat valve
- 29 oz weight

**Automatic Pressure Regulator**

**Integral Regulator For Admiral Pumps:** WE - WG - WEL - XLS - XLE - XLG bolt on for Admiral and Legacy Pumps. Trapped pressure regulator specifically designed for use on the Admiral plunger pumps. Integral inlet, bypass and outlet eliminates the need for bypass hose.

- 8 GPM
- 3600 PSI
- 200°F
- Stainless steel valve
- Forged brass body
- 3/8" FPT outlet, (2) inlet ports
- 1/4" FPT bypass
- 22 oz weight

**Model 550 Regulator / Unloader w/ Bypass Switch**

Same features as Model 550 (below left); Integral switch detects Full Bypass Mode.

- Normally Open (NO) or Normally Closed (NC) operation
- Use for burner control or time delay shutdown
- 29 oz weight

**Regulators / Unloaders**

**Basic Valves. Premium Performance.**

- Forged brass body
- Stainless steel seat & piston
- 3/8" MPT inlet, outlet & bypass
- 200°F

**520 Regulator / Unloader**

- Rated @ 2000 PSI
- 13 oz weight
- Tested up to 2400 PSI
- 8 GPM

**540 Regulator / Unloader**

- Rated @ 2600 PSI
- 15 oz weight
- Tested up to 2800 PSI
- 8 GPM

**560 Regulator / Unloader**

- Rated @ 3200 PSI
- 15 oz weight
- Tested up to 3400 PSI
- 8 GPM

**Repair Kits**

- For use with 520, 540, and 560 Regulator/Unloaders

**Regulator / Unloader 580**

**Single Inlet.**

- 8 GPM
- 3600 PSI
- 200°F
- 3/8" MPT inlet & outlet, 1/4" FPT bypass
- Adjustable pressure setting nut
- Heavy-duty forged brass body
- Stainless steel ball & valve seat
- High temperature Viton seals
- Adjustable upper pressure limit lock

**Model 550 Regulator / Unloader**

**The Quality Performer – Simple & Effective**

- 8 GPM
- 3600 PSI
- 200°F
- Stainless steel valve

**Model 550 Regulator / Unloader w/ Bypass Switch**

Same features as Model 550 (below left); Integral switch detects Full Bypass Mode.

- Normally Open (NO) or Normally Closed (NC) operation
- Use for burner control or time delay shutdown
- 29 oz weight

**VRT Unloader Valves**

- Forged brass body
- Stainless internals
- Up to 4350 PSI
- 200°F
- 7.8 GPM
- 3/8" in-out/bypass

**Regulator / Unloader 580**

**Single Inlet.**

- 8 GPM
- 3600 PSI
- 200°F
- 3/8" MPT inlet & outlet, 1/4" FPT bypass
- Adjustable pressure setting nut
- Heavy-duty forged brass body
- Stainless steel ball & valve seat
- High temperature Viton seals
- Adjustable upper pressure limit lock

**Model 550 Regulator / Unloader**

**The Quality Performer – Simple & Effective**

- 8 GPM
- 3600 PSI
- 200°F
- Stainless steel valve

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Same features as Model 550 (below left); Integral switch detects Full Bypass Mode.

- Normally Open (NO) or Normally Closed (NC) operation
- Use for burner control or time delay shutdown
- 29 oz weight

**Regulator / Unloader 580**

**Single Inlet.**

- 8 GPM
- 3600 PSI
- 200°F
- 3/8" MPT inlet & outlet, 1/4" FPT bypass
- Adjustable pressure setting nut
- Heavy-duty forged brass body
- Stainless steel ball & valve seat
- High temperature Viton seals
- Adjustable upper pressure limit lock

**VRT Unloader Valves**

- Forged brass body
- Stainless internals
- Up to 4350 PSI
- 200°F
- 7.8 GPM
- 3/8" in-out/bypass
**UNLOADERS**

### Pulsar Unloaders
- Pulsar 3 blue rated 3200 PSI – Max 3650 PSI
- Pulsar 3 white rated 1400 PSI – Max 1750 PSI
- Pulsar 280 HP rated 4050 PSI – Max 4350 PSI
- 195°F

### VB10 / VB9
- Rated pressure: 3200 PSI
- 200°F
- 3/8” MPT inlet, outlet
- 3/8” FPT bypass
- Two 3/8” FPT bypass ports

### VB75 / VB135
The VB75 is an integrated unloader for INTERPUMP/GENERAL pumps with 7.8 GPM – 3600 PSI max pressure. The VB135 fits Interpump “WW” Series Pumps and General “TT” Series Pumps with 6.5 GPM – 2600 PSI max pressure.

#### VB75
- Rated pressure: 3200 PSI
- 200°F
- 3/8” MPT inlet
- 1/4” FPT gauge port
- 3/8” FPT outlet & bypass
- 19.7 oz weight

#### VB135
- Rated pressure: 2300 PSI
- 200°F
- Stainless steel plunger & seat
- Forged brass body
- 22.9 oz weight

### VB350/4 Unloader
Bigger, Stronger, Faster - 5600 PSI
- 10.5 GPM
- Rated 5100 PSI
- Max 5600 PSI
- 195°F max
- Forged bronze body
- 31 oz weight

### VB75 Regulator / Unloader
- Fits CAT 4SF pumps and other pumps; 7.8 GPM – 3600 PSI max pressure.
- Rated pressure: 3200 PSI
- 200°F
- 3/8” MPT inlet, outlet
- 1/4” FPT gauge port

### VB130 Regulator / Unloader
- Fits CAT 2SF pumps and other pumps; 6.6 GPM – 2600 PSI max pressure.
- Rated pressure: 2300 PSI
- 200°F
- 3/8” MPT inlet & outlet
- 3/8” FPT bypass
- Stainless steel plunger
- Stainless steel valve seat
- 14.7 oz weight

### Regulator / Unloader 21 Gallon
- VB80/280 rated @ 4000 PSI
- VB80/150 rated @ 2200 PSI
- 200°F
- Pressure actuated
- Forged brass body
- Stainless steel plunger & seat
- 1/2” FPT in-out-bypass
- 45 oz weight

### Automatic Pressure Compensating Unloader Valves VB10 / VB9
7.8 GPM - 3600 PSI
- Rated 3200 PSI
- 194°F
- Reduces trapped pressure to 25% of operating pressure when unloading; allows easier gun trigger pull
- Hex-shaped non-stick check valve
- 3/8” in/out/bypass
- Brass valve body/stainless ball & seat
- Knob included
- VB9 - Panel mountable

### Part No. Original No. Description
- 8.712-741.0 463670 w/o Knob
- 8.904-580.0 463670K w/ Knob
- 8.704-488.0 111175 Repair Kit – Pulsar 3
- 8.712-735.0 463600 Knob Only
- 8.712-742.0 463672 Series 44 pumps (EZ)
- 8.712-742.0 462646 Series 47 pumps (W151)
- 8.704-488.0 111175 Seal Kit
- 8.712-735.0 463600 Knob Only
- 8.904-579.0 463660 VB10 Knob Only
- 9.802-006.0 1111375 Repair Kit – Pulsar 3
- 9.802-006.0 111137 Repair Kit – Pulsar 3
- 9.802-006.0 111137 Repair Kit – Pulsar 3
- 9.802-006.0 111137 Repair Kit – Pulsar 3
- 8.712-742.0 463672 Series 44 pumps (EZ)
- 8.704-488.0 111175 Seal Kit
- 8.712-735.0 463600 Knob Only
- 8.704-530.0 111175 Repair Kit – Pulsar 3
- 8.712-742.0 462646 Series 47 pumps (W151)
- 8.704-488.0 111175 Seal Kit
- 8.712-735.0 463600 Knob Only
- 8.902-360.0 463650 VB9 w/ Knob
- 8.704-499.0 111200X Repair Kit Old VB 350
- 8.901-056.0 111401 Seal Kit VB10
- 8.704-561.0 111400 Repair Kit VB10
VB200/150 High Volume Unloader

- 52.5 GPM
- Forged bronze body
- Large plastic knob (removable)
- Lock nut on pressure adjustment
- 2175 PSI
- 194°F
- 1/16" FPT Inlet, outlet & bypass
- Two 5/16" – 18 bolt mounting ports
- 73.5 oz weight

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
<th>GPM</th>
<th>Outlet</th>
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<tbody>
<tr>
<td>8.712-754.0</td>
<td>463714</td>
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<td>52.5</td>
<td>5000</td>
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<tr>
<td>8.712-755.0</td>
<td>463715</td>
<td>VB 200/150 w/ Knob</td>
<td>52.5</td>
<td>5000</td>
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<tr>
<td>8.704-583.0</td>
<td>111550</td>
<td>Repair Kit</td>
<td>52.5</td>
<td>5000</td>
</tr>
</tbody>
</table>

VB80/400 Stainless Steel Unloader

- 21 GPM – 6200 PSI.
- Rated 5800 PSI
- Forged stainless steel body
- 195°F
- All stainless steel valve parts

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
<th>GPM</th>
<th>Outlet</th>
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<tbody>
<tr>
<td>8.712-656.0</td>
<td>462656</td>
<td>VB 80/400</td>
<td>21</td>
<td>6200</td>
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<tr>
<td>9.802-007.0</td>
<td>111340</td>
<td>Repair Kit</td>
<td>21</td>
<td>6200</td>
</tr>
</tbody>
</table>

Hypro-Style Unloader

- All rated at 5 GPM
- Pressures from 400 to 1500 PSI
- 180°F
- Buna-N seals
- 3/8 MPT inlet & outlet
- 8 oz weight

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
<th>GPM</th>
<th>Outlet</th>
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<tbody>
<tr>
<td>8.712-689.0</td>
<td>462739</td>
<td>Open</td>
<td>200-500</td>
<td>1/4&quot; FPT</td>
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<tr>
<td>8.712-690.0</td>
<td>462740</td>
<td>Open</td>
<td>400-1000</td>
<td>1/4&quot; FPT</td>
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<tr>
<td>8.712-691.0</td>
<td>462743</td>
<td>Open</td>
<td>800-1500</td>
<td>1/4&quot; FPT</td>
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<tr>
<td>8.712-692.0</td>
<td>462745</td>
<td>Close Coupled</td>
<td>400-1000</td>
<td>1/4&quot; FPT</td>
</tr>
<tr>
<td>8.712-693.0</td>
<td>462748</td>
<td>Close Coupled</td>
<td>800-1500</td>
<td>1/4&quot; FPT</td>
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<tr>
<td>8.722-643.0</td>
<td>K34300223</td>
<td>Repair Kit for All</td>
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"K" Series Pressure Regulators Kit

Repair Kits for All K3, K5, K7 and K9 models

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
<th>GPM</th>
<th>Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.702-650.0</td>
<td>103061B</td>
<td>K3 Rebuild Kit</td>
<td>2.3</td>
<td>10.8</td>
</tr>
<tr>
<td>8.702-847.0</td>
<td>103058B</td>
<td>K5 Maintenance Kit</td>
<td>2.3</td>
<td>10.8</td>
</tr>
<tr>
<td>8.702-849.0</td>
<td>103060B</td>
<td>K5 Rebuild Kit</td>
<td>2.3</td>
<td>10.8</td>
</tr>
<tr>
<td>8.705-045.0</td>
<td>140070</td>
<td>K5 Back Nut 3/4&quot; NPT</td>
<td>2.3</td>
<td>10.8</td>
</tr>
<tr>
<td>8.702-858.0</td>
<td>103078B</td>
<td>K7 Repair Kit</td>
<td>2.3</td>
<td>10.8</td>
</tr>
<tr>
<td>8.702-911.0</td>
<td>103128B</td>
<td>K9 Repair Kit</td>
<td>2.3</td>
<td>10.8</td>
</tr>
</tbody>
</table>

"K" Series Pressure Regulators

Unloaders relieve line pressure in bypass mode.

- 3/8" FPT Inlet
- 165°F
- 1/2" FPT B

<table>
<thead>
<tr>
<th>Part No.</th>
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<th>Model</th>
<th>GPM</th>
<th>Outlet</th>
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</thead>
<tbody>
<tr>
<td>8.712-603.0</td>
<td>462530A</td>
<td>K3.0</td>
<td>2.10-2.90</td>
<td>3/8&quot; M</td>
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<tr>
<td>8.712-605.0</td>
<td>462531A</td>
<td>K3.1</td>
<td>2.90-4.22</td>
<td>3/8&quot; M</td>
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<tr>
<td>8.712-607.0</td>
<td>462532A</td>
<td>K3.2</td>
<td>4.22-5.55</td>
<td>3/8&quot; M</td>
</tr>
<tr>
<td>8.712-609.0</td>
<td>462533A</td>
<td>K3.3</td>
<td>5.00-6.50</td>
<td>3/8&quot; M</td>
</tr>
<tr>
<td>8.712-604.0</td>
<td>462530E</td>
<td>K3.0</td>
<td>2.10-2.90</td>
<td>1/2&quot; M</td>
</tr>
<tr>
<td>8.712-606.0</td>
<td>462531E</td>
<td>K3.1</td>
<td>2.90-4.22</td>
<td>1/2&quot; M</td>
</tr>
<tr>
<td>8.712-608.0</td>
<td>462532E</td>
<td>K3.2</td>
<td>4.22-5.55</td>
<td>1/2&quot; M</td>
</tr>
<tr>
<td>8.712-610.0</td>
<td>462533E</td>
<td>K3.3</td>
<td>5.00-6.50</td>
<td>1/2&quot; M</td>
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</tbody>
</table>

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<tr>
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<th>Model</th>
<th>GPM</th>
<th>Outlet</th>
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<tbody>
<tr>
<td>8.712-611.0</td>
<td>462551A</td>
<td>K5.1</td>
<td>2.90-4.22</td>
<td>3/8&quot; M</td>
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<tr>
<td>8.712-613.0</td>
<td>462552A</td>
<td>K5.2</td>
<td>4.22-6.60</td>
<td>3/8&quot; M</td>
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<tr>
<td>8.712-615.0</td>
<td>462553A</td>
<td>K5.3</td>
<td>6.60-10.83</td>
<td>3/8&quot; M</td>
</tr>
<tr>
<td>8.712-612.0</td>
<td>462551E</td>
<td>K5.1</td>
<td>2.90-4.22</td>
<td>1/2&quot; M</td>
</tr>
<tr>
<td>8.712-614.0</td>
<td>462552E</td>
<td>K5.2</td>
<td>4.22-6.60</td>
<td>1/2&quot; M</td>
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<tr>
<td>8.712-616.0</td>
<td>462553E</td>
<td>K5.3</td>
<td>6.60-10.83</td>
<td>1/2&quot; M</td>
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</tbody>
</table>

NOTE: 1) Use #140070 Back nut on bypass nipple when mounting 1/2" bypass line on K3 & K5's. 2) Use restricted (.156 - .225 ID) orifice in bypass line for smoother operation/pressure balancing.

<table>
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<tbody>
<tr>
<td>8.712-617.0</td>
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<td>K7.0</td>
<td>2.11-2.90</td>
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<tr>
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<td>K7.1</td>
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<tr>
<td>8.712-619.0</td>
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<td>4.22-6.60</td>
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<tr>
<td>8.712-620.0</td>
<td>462573</td>
<td>K7.3</td>
<td>6.60-10.8</td>
<td>3/8&quot; M</td>
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</tbody>
</table>

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<tbody>
<tr>
<td>8.712-656.0</td>
<td>462656</td>
<td>VB 80/400</td>
<td>21</td>
<td>6200</td>
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<tr>
<td>8.712-689.0</td>
<td>462739</td>
<td>Open</td>
<td>200-500</td>
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<td>8.712-690.0</td>
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<td>800-1500</td>
<td>1/4&quot; FPT</td>
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<tr>
<td>8.712-692.0</td>
<td>462745</td>
<td>Close Coupled</td>
<td>400-1000</td>
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</tr>
<tr>
<td>8.712-693.0</td>
<td>462748</td>
<td>Close Coupled</td>
<td>800-1500</td>
<td>1/4&quot; FPT</td>
</tr>
</tbody>
</table>

ZK1 - 0-3600 PSI

- 2.3-10.8 GPM
- 3/8" inlet BSP-F
- 165°F

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Model</th>
<th>Outlet / Bypass</th>
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<tbody>
<tr>
<td>8.712-602.0</td>
<td>462526</td>
<td>K138</td>
<td>3/8&quot; BSP-M</td>
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<tr>
<td>8.712-601.0</td>
<td>462525</td>
<td>ZK1</td>
<td>1/2&quot; BSP-M</td>
</tr>
</tbody>
</table>

K9 - 0-5800 PSI

- 52.5 GPM
- Forged bronze body
- Large plastic knob (removable)
- Lock nut on pressure adjustment
- 2175 PSI
- 194°F
- 1/16" FPT Inlet, outlet & bypass
- Two 5/16" – 18 bolt mounting ports
- 73.5 oz weight

<table>
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<tr>
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<tbody>
<tr>
<td>8.702-850.0</td>
<td>103061B</td>
<td>K3 Rebuild Kit</td>
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<td>10.8</td>
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<td>8.702-849.0</td>
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<td>140070</td>
<td>K5 Back Nut 3/4&quot; NPT</td>
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<td>10.8</td>
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<tr>
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<td>K7 Repair Kit</td>
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<td>10.8</td>
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<td>103128B</td>
<td>K9 Repair Kit</td>
<td>2.3</td>
<td>10.8</td>
</tr>
</tbody>
</table>
### Control Set “W” Series / Integrated Regulator / Unloader

Designed exclusively to fit INTERPUMP and GENERAL pumps.

- Mounts directly on pump inlet and outlet; internal bypass loop
- Pressure actuated: “Instant - On”
- 3/8” MPT outlets
- Integrated injector - optional
- Pressure and flow engineered for specific pump models

### ST-261 Regulator/Unloader

- 8 GPM
- Stainless steel plunger & seat
- 0–3600 PSI regulation
- Viton seals
- 180°F temperature rating
- Forged brass body
- 22.5 oz weight

### ST-261 Standard

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>8.712-681.0</td>
<td>462690</td>
<td>ST-261 STD</td>
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<tr>
<td>8.900-156.0</td>
<td>088211X</td>
<td>Seal Kit</td>
</tr>
<tr>
<td>8.701-627.0</td>
<td>088209</td>
<td>Repair Kit “B”</td>
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<tr>
<td>8.701-650.0</td>
<td>088466</td>
<td>Outlet Check Kit “A”</td>
</tr>
</tbody>
</table>

### ST-261/S Unloader with Bypass Switch

- Switches at full bypass flow
- 10 Amp, 110/230V
- Wired N/C (may be wired N/O)

### ST-261/I Unloader with Chemical Injector

- Switches at full bypass flow
- 10 Amp, 110/230V
- Wired N/C (may be wired N/O)

### ST-261 Bypass Switch only

- Field mountable
- 10 Amp @ 115/230V
- Switches at full bypass flow
- Wired N/C (may be wired N/O)

### HM Regulator/Unloader

- Excess flow is bypassed to maintain selected pressure
- Will operate on single or multiple gun systems
- Brass body - Stainless steel valve & seat
- 3/8” FTP inlet
- 3/8” MPT outlet
- 3/8” FTP bypass
- Flow range - 1.4 to 10.8 GPM
- Pressure adjustable 0-3000 PSI

### HM Regulator/Unloader

<table>
<thead>
<tr>
<th>Part No.</th>
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</thead>
<tbody>
<tr>
<td>8.712-622.0</td>
<td>462575</td>
<td>HM Regulator/Unloader</td>
</tr>
<tr>
<td>8.702-860.0</td>
<td>103072B</td>
<td>Repair Kit</td>
</tr>
</tbody>
</table>

### YU - High Volume Unloader

- 21 GPM
- 1/2” FTP inlet, outlet
- 2 - 1/2” FTP bypass ports
- 2450 PSI
- 2200 PSI rated pressure
- 200°F
- Forged brass body
- SS internals

### YU-2121 Yellow Spring

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.712-631.0</td>
<td>462628</td>
<td>2121 Yellow</td>
</tr>
<tr>
<td>8.712-632.0</td>
<td>462629</td>
<td>2140 Green</td>
</tr>
<tr>
<td>9.802-007.0</td>
<td>111340</td>
<td>Repair Kit</td>
</tr>
</tbody>
</table>

### YU-2140 Green Spring

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.712-631.0</td>
<td>462628</td>
<td>2121 Yellow</td>
</tr>
<tr>
<td>8.712-632.0</td>
<td>462629</td>
<td>2140 Green</td>
</tr>
<tr>
<td>9.802-007.0</td>
<td>111340</td>
<td>Repair Kit</td>
</tr>
</tbody>
</table>

### ST-261/SI Unloader with Switch and Injector

- Switches at full bypass flow
- 10 Amp, 110/230V
- Wired N/C (may be wired N/O)

### ST-261/SI Unloader with Switch and Injector

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>GPM</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.712-685.0</td>
<td>462695</td>
<td>0.0–2.4</td>
<td>ST-261/S</td>
</tr>
<tr>
<td>8.701-647.0</td>
<td>088422</td>
<td>2.4–3.5</td>
<td>Switch Seal Kit</td>
</tr>
<tr>
<td>8.712-686.0</td>
<td>462696</td>
<td>2.4–3.5</td>
<td>ST-261/SI-1</td>
</tr>
<tr>
<td>8.704-576.0</td>
<td>462697</td>
<td>3.5–5.5</td>
<td>ST-261/SI-2</td>
</tr>
<tr>
<td>8.704-577.0</td>
<td>462698</td>
<td>3.5–5.5</td>
<td>ST-261/SI-3</td>
</tr>
</tbody>
</table>

### ST-261 Bypass Switch only

- Field mountable
- 10 Amp @ 115/230V
- Switches at full bypass flow
- Wired N/C (may be wired N/O)

### ST-261 Bypass Switch only

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.712-629.0</td>
<td>462626</td>
<td>Switch Assy Complete</td>
</tr>
<tr>
<td>8.701-642.0</td>
<td>088272</td>
<td>Micro Switch Only</td>
</tr>
<tr>
<td>8.701-647.0</td>
<td>088422</td>
<td>Seal Kit for Micro Switch</td>
</tr>
</tbody>
</table>

### Part Numbers and Descriptions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.701-647.0</td>
<td>088272</td>
<td>Micro Switch Only</td>
</tr>
<tr>
<td>8.701-647.0</td>
<td>088422</td>
<td>Seal Kit for Micro Switch</td>
</tr>
</tbody>
</table>
ST-230 Regulator / Relief Valve

- 8 GPM
- Complete pressure regulation 0-3600 PSI
- 200°F
- 1/4” FPT Inlet & bypass

ST-280 Regulator / Unloader

- 8 GPM
- 3600 PSI
- 175°F
- 27.5 oz weight

MG4000 Series Unloaders

“The world’s best unloader value” with a choice of PSI: 1500, 3000 or 4500.

- Forged Brass Body
- 3/8” FPT Inlet, outlet & bypass
- Auxiliary 1/4” outlet
- 10 GPM

13 GPM Pressure Actuated Unloaders

- 13 GPM
- 800-3000 PSI
- 160°F
- Bellville spring washers minimize spikes

Pressure Actuated Unloaders

- Unloads pressure in entire system when in bypass
- Forged bronze body
- Stainless steel seat
- 3/8” FPT inlet/3/8” FPT outlet
- 1/4” FPT bypass
- 160°F

Flow Actuated Unloaders

- Unloads pressure in entire system when in bypass
- Forged bronze body
- Stainless steel seat
- 3/8” FPT inlet/3/8” MPT outlet
- 1/2” bypass
- 160°F
UNLOADERS

AR Bolt On Unloaders

Mini-Matic Models.

- Fits XT and XM series pumps
- 2600 PSI rated pressure
- 1-2" F inlet
- 3/8" M Outlet

Gymatic Unloaders

- RK & XM series pumps
- 5650 PSI rated pressure
- 3-5.5 GPM
- 3/8" M Outlet

VS200/180 High Volume Regulator

- 53.5 GPM
- 2600 PSI
- 194°F
- 3/4" FPT inlet
- 1/2" FPT bypass
- 29.4 oz weight

VS350 Regulator / Relief Valve

- Rated pressure: 5100 PSI
- 5600 PSI
- 6.5 GPM
- 195°F
- 3/8" FPT inlet, outlet & bypass
- 16.8 oz weight

VS 500 High Pressure Regulator / Relief Valve

- Rated pressure: 7250 PSI
- 8100 PSI
- 21 GPM
- 195°F
- Forged bronze body
- 1/2" FPT inlet & bypass
- 14.2 oz weight

VS 220 Regulator / Relief Valve

6.3 GPM – 3600 PSI max pressure.

- Rated 3200 PSI
- 200°F
- Forged bronze body
- Stainless steel plunger & seat valve
- Two 3/8" FPT inlets
- 3/8" FPT outlet/bypass
- Compact design
- 14.2 oz weight

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.712-753.0</td>
<td>463705</td>
<td>VS 200/180</td>
</tr>
<tr>
<td>8.704-582.0</td>
<td>111520</td>
<td>Repair Kit</td>
</tr>
<tr>
<td>8.712-756.0</td>
<td>463720</td>
<td>VS 350</td>
</tr>
<tr>
<td>8.704-611.0</td>
<td>111832</td>
<td>Repair Kit</td>
</tr>
<tr>
<td>8.712-757.0</td>
<td>463725</td>
<td>VS 500</td>
</tr>
<tr>
<td>8.712-737.0</td>
<td>463655</td>
<td>VS 220 w/o Knob</td>
</tr>
<tr>
<td>8.901-057.0</td>
<td>111576</td>
<td>Repair Kit</td>
</tr>
</tbody>
</table>

Indicates “Maximum Stock”

Items displaying this icon are always in stock and ready to ship.
Safety Pressure Relief Valves

Engineered and built by Interpump. Premium quality valves for all pressure systems.

- Adjustable pop off protection
- Machined brass bodies
- Stainless steel plunger & seat
- 165°F
- 3/8" MPT connect x 1/4" MPT
- Bypass & outlet
- \( S - R \) Safety Valve - 3000 PSI @ 1.3 to 10.8 GPM
- \( S - 3 \) Safety Valve - 500 to 10,000 PSI @ 2.6 to 26.5 GPM

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.711-215.0</td>
<td>390103</td>
<td>S – R Valve</td>
</tr>
<tr>
<td>8.711-227.0</td>
<td>390123</td>
<td>S – 3 Valve</td>
</tr>
</tbody>
</table>

Timax Pressure Regulator Valve

- Max flow 52 GPM
- Max pressure 1000 PSI
- Lever control manual dump for bypass to relieve line pressure
- 3/4" & 1" FTP inlet & outlet
- 3/4" FTP bypass
- Brass body - SS piston & seat

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.712-624.0</td>
<td>462580</td>
<td>Timax Regulator Valve</td>
</tr>
<tr>
<td>8.702-844.0</td>
<td>1030518</td>
<td>Repair Kit</td>
</tr>
</tbody>
</table>

Regulating Relief Valve

Economical replacement for paraplate BR5 Series.

- 7 GPM
- Pressure adjusts 200-2000 PSI
- 200°F
- 3/8" FTP Inlet, outlet & bypass
- Flow-Thru design for smooth operation
- Machined brass body & knob
- Stainless steel plunger & seat

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.712-625.0</td>
<td>462585</td>
<td>Relief Valve</td>
</tr>
<tr>
<td>8.900-042.0</td>
<td>075127</td>
<td>Repair Kit</td>
</tr>
</tbody>
</table>

Unloader Mounting Block

End vibration-caused fitting failure.

- 12 GPM
- Mounting hardware included
- Machine block brass

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
<th>PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.904-568.0</td>
<td>462183X</td>
<td>3/8&quot; x 3/8&quot;</td>
<td>5500</td>
</tr>
<tr>
<td>8.904-567.0</td>
<td>462182X</td>
<td>1/2&quot; x 1/2&quot;</td>
<td>5500</td>
</tr>
</tbody>
</table>

Amerimax Injector

The Higher Rate Injector. Our Best Seller!

- Brass housing
- Stainless steel orifice
- Fully adjustable metering valve
- Stainless steel spring
- 3/8" MPT inlet/outlet
- 1/4" hose barb

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.904-192.0</td>
<td>360130</td>
<td>&quot;0&quot;, 1-2 GPM</td>
</tr>
<tr>
<td>8.904-193.0</td>
<td>360131</td>
<td>&quot;1&quot;, 2-3 GPM</td>
</tr>
<tr>
<td>8.904-194.0</td>
<td>360132</td>
<td>&quot;2&quot;, 3-5 GPM</td>
</tr>
<tr>
<td>8.904-194.0</td>
<td>360133</td>
<td>&quot;3&quot;, 5-8 GPM</td>
</tr>
<tr>
<td>8.900-040.0</td>
<td>075122X</td>
<td>Repair Kit (SS check ball)</td>
</tr>
</tbody>
</table>

"Acid" Injector w/ Special Inlet Check Valve

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.904-201.0</td>
<td>360140X</td>
<td>&quot;0A&quot;, 1-2 GPM</td>
</tr>
<tr>
<td>8.904-202.0</td>
<td>360141X</td>
<td>&quot;1A&quot;, 2-3 GPM</td>
</tr>
<tr>
<td>8.904-203.0</td>
<td>360142X</td>
<td>&quot;2A&quot;, 3-5 GPM</td>
</tr>
<tr>
<td>8.904-204.0</td>
<td>360143X</td>
<td>&quot;3A&quot;, 5-8 GPM</td>
</tr>
<tr>
<td>8.900-041.0</td>
<td>075123X</td>
<td>Acid Repair Kit*</td>
</tr>
</tbody>
</table>

*(Ceramic check ball)

Quick-Coupled Amerimax

Assembled for Added Convenience - “Quick” couples to unloader outlet and “Quick” couples hose to injector outlet.

- Top-Quality quick-couplers:
  - 3/8" plug inlet, 3/8" socket outlet
- 6" Industrial grade poly-braid reinforced tubing (will not collapse, resists crimping, high chemical tolerance)
- Heavy-duty brass chemical filter with check valve prevents loss of prime

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.904-195.0</td>
<td>360135X</td>
<td>Quick Coupled &quot;0&quot;, 1-2 GPM</td>
</tr>
<tr>
<td>8.904-196.0</td>
<td>360136X</td>
<td>Quick Coupled &quot;1&quot;, 2-3 GPM</td>
</tr>
<tr>
<td>8.904-197.0</td>
<td>360137X</td>
<td>Quick Coupled &quot;2&quot;, 3-5 GPM</td>
</tr>
<tr>
<td>8.904-198.0</td>
<td>360138X</td>
<td>Quick Coupled &quot;3&quot;, 5-8 GPM</td>
</tr>
<tr>
<td>8.900-040.0</td>
<td>075122X</td>
<td>Repair Kit (SS check ball)</td>
</tr>
</tbody>
</table>

*(Ceramic check ball)

Amerimax Acid “QC”

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.904-205.0</td>
<td>360145X</td>
<td>Quick Coupled &quot;0A&quot;, 1-2 GPM</td>
</tr>
<tr>
<td>8.904-206.0</td>
<td>360146X</td>
<td>Quick Coupled &quot;1A&quot;, 2-3 GPM</td>
</tr>
<tr>
<td>8.904-207.0</td>
<td>360147X</td>
<td>Quick Coupled &quot;2A&quot;, 3-5 GPM</td>
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<tr>
<td>8.904-208.0</td>
<td>360148X</td>
<td>Quick Coupled &quot;3A&quot;, 5-8 GPM</td>
</tr>
<tr>
<td>8.900-041.0</td>
<td>075123X</td>
<td>Acid Repair Kit*</td>
</tr>
</tbody>
</table>

*(Ceramic check ball)
**INJECTORS**

**ST-64 Up Stream Injector**

Apply soap at high pressure. Restricts waterflow to create suction.

- 140 PSI
- 160°F
- 3/4” FGH inlet
- 3/4” MGH outlet
- Chemical Strainer and 4’ PVC Tubing included!
- Adjustable with ST-61 Meter Valve
- Locking waterflow adjustment

**Robokim Chemical Injectors**

- Forged brass body
- Stainless steel orifice
- Stainless steel inlet check valve components
- 3500 PSI
- 180°F
- 3/8” MPT inlet/outlet
- 1/4” hose barb

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Model No.</th>
<th>GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-497.0</td>
<td>360200</td>
<td>’0’</td>
<td>2.1-2.9</td>
</tr>
<tr>
<td>8.710-498.0</td>
<td>360201</td>
<td>’1’</td>
<td>3.0-4.0</td>
</tr>
<tr>
<td>8.710-499.0</td>
<td>360202</td>
<td>’2’</td>
<td>4.0-5.5</td>
</tr>
<tr>
<td>8.710-500.0</td>
<td>360203</td>
<td>’3’</td>
<td>5.5-10.8</td>
</tr>
</tbody>
</table>

**ST-62 Variable Chemical Injector**

Flow Orifice Adjusts for Machines from 2-8 GPM. Requires ST-61 (below) to regulate Chemical Injection Rate.

- Forged brass body
- 8 GPM
- 3500 PSI

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-495.0</td>
<td>360162</td>
<td>ST-62</td>
</tr>
<tr>
<td>8.701-648.0</td>
<td>088424</td>
<td>Repair Kit “F”</td>
</tr>
</tbody>
</table>

**Robokim Quick-Coupled Chemical Injectors**

- Quick-Couplers: 3/8” QC plug inlet, 3/8” QC socket outlet
- 6” Industrial grade poly-braid reinforced tubing
- AP brass chemical filter w/ stainless steel check valve

**ST-61 Chemical Metering Valve**

- Snap-on attachment to ST-60, ST-62, ST-261/I (usage limited to these injectors)
- Glass-filled polyamide body & valve parts
- Adjusts from “Off to Full” flow
- 1/4” hose barb
- Teflon® seals

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-777.0</td>
<td>371161</td>
<td>ST-61</td>
</tr>
</tbody>
</table>

**ST-60 Chemical Injector**

Requires ST-61(above) to regulate chemical injection rate.

- Forged brass body
- Inlet 3/8” MPT
- Outlet 3/8” FPT
- Compact size

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-476.0</td>
<td>360120</td>
<td>ST-61/0</td>
</tr>
<tr>
<td>8.710-477.0</td>
<td>360121</td>
<td>ST-61/1</td>
</tr>
<tr>
<td>8.710-478.0</td>
<td>360122</td>
<td>ST-61/2</td>
</tr>
<tr>
<td>8.701-648.0</td>
<td>088424</td>
<td>Repair Kit “F”</td>
</tr>
</tbody>
</table>

**Hi-Lo Injector**

May be used on high side or low side of pump. Adjustable flow orifices plus adjustable chemical valves. Standard features similar to ST-62.

- Performance Range
  - Low side: 5-3.5 GPM @ 10-120 PSI
  - High side: 2.0 - 8.0 GPM @ 3500 PSI
- Machined brass body
- 3/8” FPT inlet/outlet

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-486.0</td>
<td>360163</td>
<td>Hi-Lo Injector w/ Meter Valve</td>
</tr>
<tr>
<td>8.710-487.0</td>
<td>360165</td>
<td>w/o Chemical Adjust</td>
</tr>
<tr>
<td>8.700-290.0</td>
<td>075136</td>
<td>Repair Kit</td>
</tr>
<tr>
<td>8.906-044.0</td>
<td>075136X</td>
<td>Seal Kit</td>
</tr>
</tbody>
</table>
400 Series Chemical Injectors

The Injector of choice.

Adjustable Injectors, precise needle metering valve.

Teflon® valve seat
3/8” inlet & outlet
(3 configurations)
Forged brass housing
3200 PSI
Renewable orifices & check valve

• ± 2% injection ratio variation
• 1/4” hose barb chemical inlet
• 1/2” FPT I/O ports
• Up to 6 GPM

Series 505 Stainless Steel

All metal parts are Stainless Steel.

• Premier type injector
• 3200 PSI
• 3/8” inlet/outlet
• 190°F

Brass Injectors

All metal parts are Brass.

• Premier type injector
• 3200 PSI
• 3/8” inlet/outlet
• 190°F

Exact-A-Flow Pressure Reducer / Injector

“Low side” chemical injector that regulates inlet pressure to maintain consistent chemical ratio.

• Up to 6 GPM
• 1/2” FPT I/O ports
• 1/4” hose barb chemical inlet
• ± 2% injection ratio variation
Valves

Adjustable Bronze Float Valves

- Cast bronze body
- Live rubber stopper
- Adjustable float arm
- 180°F

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Thread</th>
<th>Stem GPM @ 40 PSI</th>
</tr>
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<tbody>
<tr>
<td>8.710-041.0</td>
<td>343300</td>
<td>3/8&quot;</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.710-043.0</td>
<td>343302</td>
<td>1/2&quot;</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.710-044.0</td>
<td>343304</td>
<td>3/4&quot;</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.710-045.0</td>
<td>343306</td>
<td>1&quot;</td>
<td>1/4&quot; - 20</td>
</tr>
</tbody>
</table>

NOTE: Float valves above require stem & float, below

Repair Parts for Adjustable Valves

- 8.700-475.0 076406 Long Arm*
- 8.700-476.0 076407 Short Arm*
- 8.700-477.0 076408 Thumb Screw*
- 8.700-479.0 076418 3/8" & 1/2" Plunger
- 8.700-480.0 076420 3/4" Plunger
- 8.700-481.0 076422 1" Plunger

*Fits 3/8", 1/2" & 3/4" Valve Only

PA Float Valve

- 140°F
- 3/8" BSP inlet
- Brass body
- Positional/Adjustable arm
- 5 GPM @ 15 PSI
- 7 GPM @ 30 PSI

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-042.0</td>
<td>343301</td>
<td>3/8&quot; Float Valve</td>
</tr>
<tr>
<td>8.704-204.0</td>
<td>110250</td>
<td>Repair Kit</td>
</tr>
</tbody>
</table>

Brass Float Valve Assembly

COMPLETE: Valve, Stem & Float

- 1/2" FPT inlet
- Brass housing with polyamide cover
- 4.5 GPM
- 175°F

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-031.0</td>
<td>343010</td>
<td>ST-8</td>
</tr>
<tr>
<td>8.701-558.0</td>
<td>085331</td>
<td>Repair Kit</td>
</tr>
</tbody>
</table>

MPT Adapter Kit for ST-8*

8.710-033.0 343012

*Double MPT nipple, sealing washer & lock nut

Brass Float, Ball & Stem

- 142 PSI max inlet pressure
- 140°F
- 7.1 GPM @ 28 PSI - 1/2" MPT inlet
- Positive soft Buna/brass shut-off
- Adjustable float ball settings
- Inlet nut and washer seal provided

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-037.0</td>
<td>343050</td>
<td>Valve Complete</td>
</tr>
<tr>
<td>8.704-092.0</td>
<td>109502</td>
<td>Repair Kit</td>
</tr>
</tbody>
</table>

Copper & Plastic Float Balls

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Length</th>
<th>Material</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-053.0</td>
<td>343310</td>
<td>8&quot;</td>
<td>Brass</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.710-054.0</td>
<td>343311</td>
<td>8&quot;</td>
<td>Brass</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.710-053.0</td>
<td>343313B</td>
<td>18&quot;</td>
<td>Brass</td>
<td>3/8&quot; - 16</td>
</tr>
<tr>
<td>8.740-042.0</td>
<td>343316</td>
<td>19&quot;</td>
<td>Brass</td>
<td>1/2&quot; - 20</td>
</tr>
</tbody>
</table>

Parts for other float valves also available

Diaphragm Float Valve

- Requires only 6.5" x 3" inside tank
- All plastic snap-on float
- Positive shut off diaphragm style
- Inlet screen, tank gasket & nut included
- Rebuildable – repair parts available
- 3/4" MPT inlet
- 142 PSI
- 7.86 GPM @ 28 PSI
- 6.68 GPM @ 14 PSI
- 140°F

<table>
<thead>
<tr>
<th>Part No.</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-036.0</td>
<td>343007</td>
<td>Float Valve Complete</td>
</tr>
</tbody>
</table>

Part No. Original No. Description
8.710-041.0 343300 Cast bronze body, Live rubber stopper, Adjustable float arm, 180°F
8.710-043.0 343302 3/8" 1/4" - 20 10
8.710-044.0 343304 3/4" 1/4" - 20 31
8.710-045.0 343306 1" 1/4" - 20 47
8.700-475.0 076406 Long Arm*
8.700-476.0 076407 Short Arm*
8.700-477.0 076408 Thumb Screw*
8.700-479.0 076418 3/8" & 1/2" Plunger
8.700-480.0 076420 3/4" Plunger
8.700-481.0 076422 1" Plunger
8.710-042.0 343301 3/8" Float Valve
8.704-204.0 110250 Repair Kit
8.710-031.0 343010 ST-8
8.701-558.0 085331 Repair Kit
8.710-033.0 343012 MPT Adapter Kit for ST-8*
8.710-037.0 343050 Valve Complete
8.704-092.0 109502 Repair Kit
8.710-036.0 343007 Diaphragm Float Valve Complete

NOTE: Float valves above require stem & float, below

Repair Parts for Adjustable Valves

- 8.700-475.0 076406 Long Arm*
- 8.700-476.0 076407 Short Arm*
- 8.700-477.0 076408 Thumb Screw*
- 8.700-479.0 076418 3/8" & 1/2" Plunger
- 8.700-480.0 076420 3/4" Plunger
- 8.700-481.0 076422 1" Plunger

*Fits 3/8", 1/2" & 3/4" Valve Only

Stems Only

<table>
<thead>
<tr>
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<th>Material</th>
<th>Thread</th>
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<tbody>
<tr>
<td>8.710-047.0</td>
<td>343310</td>
<td>8&quot;</td>
<td>Brass</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.710-048.0</td>
<td>343311</td>
<td>8&quot;</td>
<td>Brass</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.710-051.0</td>
<td>343315</td>
<td>10&quot;</td>
<td>Brass</td>
<td>1/4&quot; - 20</td>
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<tr>
<td>8.710-049.0</td>
<td>343313B</td>
<td>18&quot;</td>
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Copper & Plastic Float Balls

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<th>Material</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-093.0</td>
<td>343326</td>
<td>4&quot; x 5&quot;</td>
<td>Copper</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.710-092.0</td>
<td>343327</td>
<td>5&quot;</td>
<td>Copper</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.710-093.0</td>
<td>343328</td>
<td>6&quot;</td>
<td>Copper</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.802-061.0</td>
<td>343329</td>
<td>4-1/2&quot;</td>
<td>Plastic</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.802-060.0</td>
<td>343330</td>
<td>5&quot;</td>
<td>Plastic</td>
<td>1/4&quot; - 20</td>
</tr>
<tr>
<td>8.802-061.0</td>
<td>343331</td>
<td>4-1/2&quot;</td>
<td>Plastic</td>
<td>1/4&quot; - 20</td>
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<td>343007</td>
<td>Float Valve Complete</td>
</tr>
</tbody>
</table>
VALVES

Hudson Float Valve

- No external moving parts
- No float ball or arm
- Operates between 0-130 PSI
- All plastic, nylon, rubber & stainless steel
- 90°F
- 1" inlet - easy installation
- Automatic anti-siphon
- Flow capacity 80% of supply (40 GPM @ 40 PSI)

Stainless Steel Check Valves

- Rated pressure: 5800 PSI
- 6500 PSI
- 195°F
- Female x Female
- 2.0 oz weight

High Pressure Check Valves

2500 or 3000 PSI ball check.

- Buna seals
- Stainless steel check ball
- Machined brass body
- 1 PSI cracking pressure

Back Flow Preventor - Check Valve

Protects water supply from harmful chemical backflow – will not allow “spike” pressure to push chemicals into supply line. Now required by many city and state regulations

- 3/4” female garden hose inlet (with lock screw)
- 3/4” male garden hose outlet
- Machined brass housing
- Plastic diaphragm check

Check Valves - Swing Action

Retain prime on pumps with low lift capability

- Brass body with swing (flapper) action
- FPT inlet/outlet
- Gravity seal – no spring pressure

Stainless Steel Check Valves

- Stainless Steel Check Valves

- Buna seals
- Stainless steel check ball
- Machined brass body
- 1 PSI cracking pressure

Check Valves - 1200 PSI

Allows excellent low-restriction flow in inlet direction and instant positive check action in reverse direction.

- Machined brass body
- Poppet seal
- Cracking pressure 1 PSI

Brass Check Valves - Spring-Loaded

Holds pump prime without overloading pump suction.

- Machine cast brass bodies, FPT x FPT
- 150 PSI
- 250°F
- Mount horizontal or vertical

Kerick Float Valve

Flow rates for 1/2” Valve: 20 PSI: 7.7 GPM
30 PSI: 9.1 GPM
40 PSI: 10.5 GPM
50 PSI: 11.4 GPM
60 PSI: 12.5 GPM

Flow rates for 3/4” Valve: 30 PSI: 13 GPM
60 PSI: 16.5 GPM

Part No. Original No. Description
8.749-328.0 310824 1/2" Float Valve, 25" orifice
8.749-329.0 310874 3/4" Float Valve, 30" orifice
PVC Check Valve
Holds pump prime without overloading pump suction.

- Designed for harsh chemical applications
- PVC plastic body
- Stainless steel ball check
- Cracking press 1 PSI
- Choice of connects
- 125 PSI
- 180°F

**PVC Check Valve**

Holds pump prime without overloading pump suction.

**Stainless Steel Ball Valves - 2000 PSI**

- Full flow ports
- Investment cast process
- Two piece 316 Stainless bodies
- Glass-filled Teflon® seals
- 180°F @ 2,000 PSI
- 300°F @ 1,000 PSI
- 350°F @ 300 PSI

**Forged Brass Ball Valves**

- 600 PSI
- 180°F
- Forged brass body
- Full flow ports

**Nickel-Plated Brass Ball Valves**

- Threaded FPT connects
- Chrome-plated ball
- Seats & seals have glass-filled Teflon®
- Full flow bore

**Mini Ball Valves**

- Forged brass body
- 600 PSI
- 180° handle movement

**High Pressure Ball Valves**

- Rugged carbon steel construction
- 2-way
- NPT (F x F) threads

**Stainless Steel High Pressure Ball Valves - 5800 PSI**

- 316 Stainless steel body, ball & stem
- Delrin ball seats
- Full Port

**Stainless Steel One Piece Ball Valves - 800 PSI**

Suitable for steam.

- Standard port
- 316 Stainless steel body
- 300°F @ 800 PSI
- 350°F @ 400 PSI
Brass Mini Ball Valves

- Compact knob operation
- Brass housing-hex bar
- 220 PSI working pressure
- Designed to fit tight quarters
- Teflon® seals
- Only 1-3/4" long

Brass Mini Ball Valves

Part No. Original No. FPT
---
8.709-270.0 306542 1/8" x 1/8"
8.709-271.0 306544 1/4" x 1/4"
8.709-272.0 306546 3/8" x 3/8"
8.709-273.0 306548 1/2" x 1/2"

Polypropylene Ball Valves

Full port reinforced polypropylene.

- 150 PSI working pressure
- Easy turn w/ Teflon® seals
- Double seal in stem for “no leak”
- Threaded mounting bosses, brass insert on 1-1/4" - 2" sizes

8.709-222.0 8.709-228.0

Compact PVC Ball Valves

- FPT thread both ends
- 150 PSI working pressure
- Easy turn handle

Part No. Original No. FPT
---
8.709-233.0 306444 1/4" x 1/4"
8.709-234.0 306448 1/2" x 1/2"
8.709-235.0 306450 3/4" x 3/4"
8.709-236.0 306452 1" x 1"
8.709-237.0 306454 1-1/4" x 1-1/4"
8.709-238.0 306456 1-1/2" x 1-1/2"
8.709-239.0 306460 2" x 2"

PVC Ball Valves

Great for chemical On/Off flow control.

- PVC & nitrile material
- Chemical & impact resistant
- Flag handle
- 180°F
- 125 PSI

Part No. Original No. Description
---
8.709-214.0 306352P 1/4" Panel Mfg, Barb x Barb
8.709-219.0 306354P 1/4" Inline, Barb x Barb
8.709-220.0 306356 3/8" Inline, Barb x Barb

3-Way Ball Valve

- 400 PSI maximum pressure
- 180°F maximum temperature
- Teflon seat
- Buna seals
- Brass

Part No. Original No. Description
---
8.709-207.0 306331 1/4" M x F x F

Flow Selector Valve

3-way & 4-way lever control with brass body.

- 3-way
  - Plumb for 2 inlets & 1 outlet or 1 inlet & 2 outlets
- 4-way
  - Plumb for 3 inlets & 1 outlet or 1 inlet & 3 outlets
  - 180°F rated temperature

Part No. Original No. Description
---
8.710-108.0 343734 1/4" FPT 3-Way
8.710-110.0 343736 3/8" FPT 3-Way
8.710-113.0 343744 1/4" FPT 4-Way
8.710-114.0 343746 3/8" FPT 4-Way

Flow Control Metering Valve

- Forged brass, nickel-plated body
- Panel mtg in 17/32" hole
- Compact size
- Double stem seal
- 300 PSI
- 175°F rated temperature

Part No. Original No. Description
---
8.710-775.0 371125 1/4", FPT In/out
8.710-776.0 371133 3/8", FPT In/out

Flow Control Metering Valve

The Valve that “Seals” (will not suck air).

- 3500 PSI to 28" vacuum – No leak
- Viton gland seal isolates metering threads from solution
- Stainless steel needle/ brass seat
- 1/4" FPT ports
- Heavy-duty brass bar stock body
- 195°F rated temperature
- Panel mounts 5/8" hole
- Large easy-grip four-lobe handwheel
- Aluminum or Poly available

Part No. Original No. Description
---
8.904-362.0 371120X Metering Valve / Alum Knob
8.904-361.0 371120P Metering Valve / Poly Knob
Brass Metering Valve

- Easy grip, fluted plastic handle with pointer
- Brass body, Viton gland seal eliminates air leaks
- Panel mount 11/16" or 3/4" hole
- Extremely compact T-style
- 1/4 inlet/outlet
- 450 PSI
- 170°F

**Valves**

- 70

Chemical Metering / On-Off Valve

- Dual knob control – Calibrate chemical flow w/base knob. Outside knob allows on/off control without changing calibration
- Single (1/2") hole panel mounting
- Brass & stainless steel materials

**ST-66 Chemical Meter & Selection Valve**

- Two input barbs – for different chemicals to single outlet barb
- Double metering dial with center OFF
- Panel mount in single 5/8" hole

**Steam Valve**

For “Combo” Hot Pressure Washer/Steamer Units. The single turn on/off diverter valve by-passes pump flow to reduce water flow to the coil, creating steam in place of normal hot water.

- Panel mount in 11/16" or 3/4" hole
- Machined brass body
- Easy-grip plastic knob
- 3600 PSI
- 175°F
- 1/4" MPT inlet/outlet

**Thermal Relief Valves**

A MUST for any pump that might ever be left in bypass mode (unloading) for more than 15 seconds! Protects the pump from overheating caused by recirculating water.

- Installs in bypass line
- Automotive style wax element
- Automatically resets at cool down to 115°+ F
- No adjustment required
- 1/8" FPT side discharge
- 125 PSI inlet pressure
- 2.5 GPM flow

**Compact Thermal Relief Valves**

- 145°F “Trip” temperature

**TRV Thermal Relief Valves**

Low Profile!

- Brass body
- Plastic covered barb
- 7mm Hose barb
- 145 PSI
- Opens at 145°F

**Flow Meters**

The answer to precision calibration and efficient operation of pressure washing systems.

- Flow scale measures gallons per hour (GPH)
- 100 PSI
- 150°F
- 1/8" FPT inlet & outlet port
- Wetted parts are brass or stainless steel, with or without metering valves
- Accurate within ±5%
- Precision cut and machined clear acrylic
- Metal mounting inserts for ease of installation (10-32 threads)
- Compact size – 2" tall scale, 4-3/32" overall height

**Part No.**

- **8.710-773.0**
- **8.710-774.0**

**Original No.**

- **371115**
- **371116**

**Description**

- "T" 1/4 F x F - Forged
- "L" 1/4 M x M - Machined

**Part No.**

- **8.710-779.0**

**Original No.**

- **371166**

**Description**

- ST-66

**Part No.**

- **8.711-263.0**

**Original No.**

- **400008**

**Orifice (mm)**

- **0.8**

**Part No.**

- **8.904-097.0**

**Original No.**

- **343722**

**GPH**

- **.6 – 5**

**Metal**

- Brass

**Metering Valve**

- no

**Part No.**

- **8.710-098.0**

**Original No.**

- **343723**

**GPH**

- **.6 – 5**

**Metal**

- Brass

**Metering Valve**

- yes

NOTE: All flow measurements must be on Low Pressure side of pump.
Chemical Metering Valves

- Adjusts from off to full flow
- 4000 PSI
- 1/4” FPT Inlet - Outlet
- 6 GPM
- 2-30151 has presettable limiting orifice

<table>
<thead>
<tr>
<th>Part No.</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-771.0</td>
<td>727628</td>
<td>Flow Control</td>
</tr>
<tr>
<td>9.802-187.0</td>
<td>2-30151</td>
<td>Flow Control w/ Locking Adjustment</td>
</tr>
</tbody>
</table>

Safety Pressure Relief Valves

- Prevents pressure overloads, protecting people and equipment
- Machined brass
- Automatically resets

Air Valve - Coil Blow Out

Install inline in front of coil and use air pressure to blow water out of coil to prevent “Freeze Up”.

- Threaded connection
- 1/8” model is stainless steel
- 1/4” brass valve
- Valve cap included

<table>
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<tr>
<th>Part No.</th>
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<tbody>
<tr>
<td>8.722-192.0</td>
<td>G022550A</td>
<td>1200 (Silver Spring) 1/4”</td>
</tr>
<tr>
<td>8.722-193.0</td>
<td>G022560A</td>
<td>2400 (Red Spring) 1/4”</td>
</tr>
<tr>
<td>8.722-194.0</td>
<td>G022565A</td>
<td>3600 (Orange Spring) 1/4”</td>
</tr>
<tr>
<td>8.722-190.0</td>
<td>G022532A</td>
<td>3600 (Orange Spring) 3/8”</td>
</tr>
<tr>
<td>9.802-191.0</td>
<td>G022533A</td>
<td>5000 (Blue Spring) 3/8”</td>
</tr>
</tbody>
</table>

Pressure Reducing valve

INLINE – Garden Hose Connect

- 200 PSI max inlet pressure (See discharge pressures, below)
- Protects pumps from supply pressure surges
- Improves efficiency of float valves
- Brass construction
- 3/4” female garden hose inlet (See outlets, below)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Discharge</th>
<th>Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.904-391.0</td>
<td>385130</td>
<td>20 PSI</td>
<td>1/2” FPT</td>
</tr>
<tr>
<td>8.711-164.0</td>
<td>385132</td>
<td>20 PSI</td>
<td>3/4” MGH</td>
</tr>
<tr>
<td>8.711-165.0</td>
<td>385133</td>
<td>30 PSI</td>
<td>3/4” MGH</td>
</tr>
<tr>
<td>8.711-166.0</td>
<td>385134</td>
<td>40-50 PSI</td>
<td>3/4” MGH</td>
</tr>
</tbody>
</table>

Easy Start Valve

- 3/8” MPT inlet
- 1/8” FPT outlet
- Machined brass housing
- Hose barb outlet
- Stainless steel internal
- 200°F
- 8 GPM

<table>
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<tr>
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<tbody>
<tr>
<td>8.709-865.0</td>
<td>339004</td>
<td>Easy Start Valve, 4100 PSI</td>
</tr>
<tr>
<td>8.709-866.0</td>
<td>339005</td>
<td>Easy Start Valve, 3500 PSI</td>
</tr>
<tr>
<td>9.802-137.0</td>
<td>140352</td>
<td>Hose Barb, 1/8 x 1/4 barb</td>
</tr>
</tbody>
</table>

Easy Start Valve

- 3/8” MPT inlet
- Hose barb outlet
- Stainless steel spring & ball
- 3200 PSI
- 176°F
- 7.8 GPM

<table>
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<tr>
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<tbody>
<tr>
<td>8.709-867.0</td>
<td>339006</td>
<td>Easy Start Valve</td>
</tr>
</tbody>
</table>

Steel Utility Gauges

Dry Gauges!

- Black lacquered steel case
- Bronze bourdon tube
- Dry gauge
- 1/4” NPT brass mounting stem
- Accuracy ± 5-2-3%

<table>
<thead>
<tr>
<th>Part No.</th>
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<th>Pressure Range</th>
</tr>
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<tbody>
<tr>
<td>2” bottom mount</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.710-307.0</td>
<td>348552</td>
<td>0-60 PSI</td>
</tr>
<tr>
<td>8.710-308.0</td>
<td>348554</td>
<td>0-100 PSI</td>
</tr>
<tr>
<td>8.710-309.0</td>
<td>348558</td>
<td>0-200 PSI</td>
</tr>
<tr>
<td>8.710-310.0</td>
<td>348560</td>
<td>0-300 PSI</td>
</tr>
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Fuel Oil Pressure Gauge

- 0-200 PSI
- Perfect for testing burner pump fuel pressure

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<tbody>
<tr>
<td>8.700-738.0</td>
<td>079020</td>
<td>0 - 200 PSI</td>
</tr>
</tbody>
</table>

Corrosion-Resistant ABS Gauge

- Acid & alkali proof plastic case
- Bronze bourdon tube
- 1/4” NPT brass mounting stem
- Accuracy Dry: ±3-2-3%
- Filled: ±1.5%

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<th>Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-291.0</td>
<td>348305</td>
<td>0-100 PSI</td>
</tr>
<tr>
<td>8.710-293.0</td>
<td>348307</td>
<td>0-200 PSI</td>
</tr>
<tr>
<td>8.710-294.0</td>
<td>348308</td>
<td>0-300 PSI</td>
</tr>
<tr>
<td>8.710-295.0</td>
<td>348312</td>
<td>0-1000 PSI</td>
</tr>
<tr>
<td>8.710-296.0</td>
<td>348313</td>
<td>0-2000 PSI</td>
</tr>
<tr>
<td>8.710-297.0</td>
<td>348314</td>
<td>0-3000 PSI</td>
</tr>
<tr>
<td>8.710-299.0</td>
<td>348316</td>
<td>0-5000 PSI</td>
</tr>
</tbody>
</table>
Stainless Steel Pressure Gauges

- AISI 304 stainless steel case
- Bronze bourdon tube
- 99.5% pure glycerin filled
- PSI & Bar dual scale
- 1/4" NPT brass mounting stem
- Convex magnifying lens for easy reading
- Steel needle & peg
- Accuracy ± 1.5%

AMP Meters

- Designed for OEM or replacement
- Utilize as constant monitor or as test instruments
- Accuracy to ± 5%
- Rugged & weather-resistant
- Bright stainless steel case
- Metal case
- Fits 2-1/16" mounting hole

Hour Meters for Gasoline Engines

- Elapsed time
- No battery required
- Digital quartz accuracy (± .02%)
- Extremely rugged & tamperproof
- Sealed from dirt & moisture
- Requires 2" panel cutout

Pressure & Temperature Test Set

- Convenient test set provides both pressure and temperature check with one easy quick coupled connection at outlet of unloader or coil.
- **Thermowell** to be used with dial thermometers in systems over 300 PSI. For best results fill thermowell with liquid silicon or glycol to increase sensitivity and accuracy of readings.

Temperature Gauges

- 3" diameter dial – stainless steel case
- Shatter-resistant polycarbonate lens
- Stainless steel stem (2.5")
- Accuracy to within 3% of dial range (ie. 50 - 500 = ± 6.8°F)

Speedmaster Throttle Control

- Stop overworking the engine and pump during bypass. Decelerator reduces engine speed when pump head pressure drops below 215 PSI, reduces flow during bypass, slows recirculation heat build up.
- 3500 PSI
- 300°F
- A major system saver for gas engine units
- Machined brass body
- Stainless steel gland components
- 1/4" Male Connect
- Viton seals
- 42" lined and covered control cable
- Engine speeds infinitely adjustable for “Fine Tuned” system performance

Stainless Steel Pressure Gauges

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-270.0</td>
<td>348216</td>
<td>0-100 PSI</td>
</tr>
<tr>
<td>8.710-272.0</td>
<td>348220</td>
<td>0-200 PSI</td>
</tr>
<tr>
<td>8.710-273.0</td>
<td>348224</td>
<td>0-300 PSI</td>
</tr>
<tr>
<td>8.710-276.0</td>
<td>348230</td>
<td>0-500 PSI</td>
</tr>
<tr>
<td>8.710-278.0</td>
<td>348240</td>
<td>0-1000 PSI</td>
</tr>
<tr>
<td>8.710-280.0</td>
<td>348245</td>
<td>0-2000 PSI</td>
</tr>
<tr>
<td>8.710-281.0</td>
<td>348250</td>
<td>0-3000 PSI</td>
</tr>
<tr>
<td>8.710-283.0</td>
<td>348255</td>
<td>0-4000 PSI</td>
</tr>
<tr>
<td>9.804-017.0</td>
<td>348260</td>
<td>0-5000 PSI</td>
</tr>
<tr>
<td>8.710-286.0</td>
<td>348262</td>
<td>0-6000 PSI</td>
</tr>
<tr>
<td>9.804-001.0</td>
<td>348265</td>
<td>0-10,000 PSI</td>
</tr>
</tbody>
</table>

2-1/2" Back Mount with Bronze Internals

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-246.0</td>
<td>348125</td>
<td>0-100 PSI</td>
</tr>
<tr>
<td>8.710-250.0</td>
<td>348140</td>
<td>0-100 PSI</td>
</tr>
<tr>
<td>8.710-254.0</td>
<td>348150</td>
<td>0-500 PSI</td>
</tr>
<tr>
<td>8.710-256.0</td>
<td>348152</td>
<td>0-1000 PSI</td>
</tr>
<tr>
<td>8.710-257.0</td>
<td>348154</td>
<td>0-2000 PSI</td>
</tr>
<tr>
<td>8.710-258.0</td>
<td>348156</td>
<td>0-3000 PSI</td>
</tr>
<tr>
<td>8.710-259.0</td>
<td>348158</td>
<td>0-4000 PSI</td>
</tr>
<tr>
<td>9.803-996.0</td>
<td>348160</td>
<td>0-5000 PSI</td>
</tr>
<tr>
<td>8.710-262.0</td>
<td>348162</td>
<td>0-6000 PSI</td>
</tr>
<tr>
<td>9.804-013.0</td>
<td>348165</td>
<td>0-10,000 PSI</td>
</tr>
</tbody>
</table>

Mounting Hardware for Back Mount Gauges

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.710-223.0</td>
<td>348001</td>
<td>U-bracket</td>
</tr>
<tr>
<td>8.710-228.0</td>
<td>348090</td>
<td>3-hole flange, mounted</td>
</tr>
</tbody>
</table>

AMP Meters

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.701-686.0</td>
<td>091321</td>
<td>-15 to +15 Amps</td>
</tr>
<tr>
<td>8.701-687.0</td>
<td>091323</td>
<td>-20 to +20 Amps</td>
</tr>
<tr>
<td>8.701-688.0</td>
<td>091344</td>
<td>-60 to +60 Amps</td>
</tr>
</tbody>
</table>

Temperature Gauges

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.712-488.0</td>
<td>426410*</td>
<td>Temp Gauge +50°F to 500°F</td>
</tr>
</tbody>
</table>

Thermowell for temperature gauge above

- Stainless Steel
- 3/4" MPT x 1/2" FPT
- Gives 2000 PSI collapse protection
- 1.75" immersion length

Pressure & Temperature Test Set

- Convenient test set provides both pressure and temperature check with one easy quick coupled connection at outlet of unloader or coil.
- **Test Set 5000**
  - 500°F Thermometer
  - 500 PSI pressure gauge for systems up to 2000 PSI
- **Test Set 8000**
  - 500°F Thermometer
  - 8000 PSI pressure gauge for systems up to 4000 PSI
- **Test Set 10,000**
  - 10,000 PSI pressure gauge for systems up to 5000 PSI

Hour Meters for Gasoline Engines

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.749-183.0</td>
<td>EL 5-80V AC/DC 50/60 Hz</td>
</tr>
<tr>
<td>8.749-316.0</td>
<td>EL 24-277 AC/DC 50/60 Hz</td>
</tr>
<tr>
<td>8.904-540.0</td>
<td>Tachometer/Hour Meter, 12V DC</td>
</tr>
</tbody>
</table>

Part No. Description

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Original No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.904-559.0</td>
<td>449045</td>
<td>Test Set 5000 (0-2500 PSI systems)</td>
</tr>
<tr>
<td>8.904-560.0</td>
<td>449048</td>
<td>Test Set 8000 (0-4000 PSI systems)</td>
</tr>
<tr>
<td>8.904-558.0</td>
<td>449040</td>
<td>Test Set 10,000 (0-5000 PSI systems)</td>
</tr>
</tbody>
</table>