

## 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.



106020

- 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

Part No.	Description
106020	APR-Brass/ Black 3/8"
106022	APR-Brass/ Black 1/2"
109139	Seal Repair Kit - 3/8"
109139X	Seal Repair Kit - 1/2"
109140	Valve Seat Repair Kit

## Regulators / Unloaders

Basic Valves. Premium Performance.



462320

- 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

462320K

Part No.	Description
462320	520 without Knob
5-3505	520 with Knob
462330	540 without Knob
462330K	540 with Knob
462340K	560 with Knob
109177	Seal Repair Kit
109178	Valve Seat Repair Kit

## 550 Regulator / Unloader

The Quality Performer – Simple & Effective



- 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

Part No.	Description
462335	without Knob
462335K	with Knob
109060	Seal Repair Kit
109062	Valve Seat Repair Kit

## 550 Regulator / Unloader with Bypass Switch

Same features as 550 (above); 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

Part No.	Description
462336	without Knob
462336K	with Knob
109060	Seal Repair Kit
109062	Unloader Seat Repair Kit
082022	Replacement Micro Switch
109041	Knob only (550)

## 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

Part No.	Description
463350	without Knob
463350K	with Knob
109060	Seal Repair Kit
109062	Valve Seat Repair Kit

## 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
- 8 GPM
- All stainless steel valves
- Pressure actuated
- Forged body
- 3/8" FPT inlet, outlet
- Two 3/8" FPT bypass ports

Part No.	Description
462650	Pulsar 3 (Blue) with Knob
462651	Pulsar 3 (Blue) without Knob
462653	Pulsar 3 (White) without Knob
462654	Pulsar 3 (White) with Knob
5-3020	Pulsar 280 HP
111100	Repair Kit – Pulsar 3
12-60007224	Repair Kit – 280 HP

## VB7 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, 1/4" FPT gauge port
- 3/8" FPT outlet & bypass
- 19.7 oz weight

Part No.	Description
463670	without Knob
5-3021	with Knob
111175	Repair Kit
463600	Knob Only

## 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

Part No.	Description
463660	without Knob
5-3023	with Knob
111150	Repair Kit
463600	Knob Only

## Regulator / Unloader 21 Gallon



**VB 80/280:** 21 GPM – 4300 psi max; **VB 80/150:** 21 GPM – 2400 psi max.



- 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

Part No.	Description	Spring
5-3012	VB80/280	Blue
5-30121	VB80/150	White
111300	Repair Kit	

## 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

- 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 internals
- Forged brass body
- 22.9 oz weight



VB135

Part No.	Description
<b>VB75</b>	
463672	Series 44 pumps (EZ)
5-3025	Series 47 pumps (W151)
111175	Seal Kit
463600	Knob Only
<b>VB135</b>	
5-3024	VB 135
463600	Knob Only

## VB350/4 Unloader



Bigger. Stronger. Faster - 5600 psi max pressure



- 10.5 GPM
- Rated 5100 psi
- Max 5600 psi
- 195°F
- Forged bronze body
- 31 oz weight
- Stainless steel plunger & valve seat
- 3/8" FPT outlet & bypass
- 1/2" F bypass
- 3/8" MPT inlet, 1/4" gauge port

Part No.	Description
5-3014	Unloader Red Knob
111200X	Repair Kit - Old VB 350
111901	Repair Kit - Red Knob Version

## Automatic Pressure Compensating Unloader Valves VB10 / VB9



7.8 GPM - 3600 psi max pressure



VB10

- Rated 3200 psi
- 194°F
- Reduces trapped pressure to 25% of operating pressure when unloading; allows easier gun trigger pull
- Instant pressure response
- Hex-shaped non-stick check valve
- 3/8" in/out/bypass
- Brass valve body/stainless ball & seat
- Knob included
- VB9 - Panel mountable



VB9

Part No.	Description
5-3015	VB9 with Knob
5-3013	VB10 with Knob
111336	Repair Kit VB9
111400	Repair Kit VB10
111401	Seal Kit VB10

# UNLOADERS

## 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" FPT Inlet, outlet & bypass
- Two 5/16" – 18 bolt mounting ports
- 73.5 oz weight

Part No.	Description
463714	VB 200/150 without Knob
463715	VB 200/150 with Knob
111550	Repair Kit

## VB80 / 400 Stainless Steel Unloader



21 GPM – 6200 psi max pressure.

- Rated 5800 psi
- Forged stainless steel body
- 195°F
- All stainless steel valve parts
- Viton seals
- 1/2" FPT inlet, outlet & bypass

Part No.	Description
462656	VB 80/400
111340	Repair Kit

## 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

Part No.	Model	GPM	PSI	Pump
<b>"W" Series Unloaders</b>				
462636	W1	4.00	1600	W905
462639	W1-L	4.00	1600	W99
462643	W2	5.56	3000	W997
462644	W2-L	5.56	3000	W201
103093B	W2/W2L Rebuild Kit			
103098B	W1/W1L Rebuild Kit			

Part No.	Model	GPM	PSI	Pump
<b>"W" Series Unloaders with Injectors</b>				
462635	W1-0	2.1-2.9	1600	W907
462640	W1L-1	3.0-4.0	1600	W99
462642	W2-1	2.9-4.0	3000	W997
462645	W2L-1	2.9-4.0	3000	W201
462647	W2L-2	4.2-5.5	3000	WS202
103094B	Injector Maintenance Kit			

## "K" Series Pressure Regulators



Unloaders relieve line pressure in bypass mode.

- 3/8" FPT Inlet
- 165°F
- 1/2" FPT B



K3 - 0-1500 psi

Part No.	Model	GPM	Outlet
<b>K3</b>			
5-30020	K3.0	2.10-2.90	3/8" M
5-30021	K3.1	2.90-4.22	3/8" M
5-3002	K3.2	4.22-5.55	3/8" M
5-30022	K3.3	5.00-6.50	3/8" M
462530E	K3.0	2.10-2.90	1/2" M
462531E	K3.1	2.90-4.22	1/2" M
462532E	K3.2	4.22-5.55	1/2" M
462533E	K3.3	5.00-6.50	1/2" M

K5 - 1000-3000 psi

Part No.	Model	GPM	Outlet
<b>K5</b>			
5-30011	K5.1	2.90-4.22	3/8" M
5-3001	K5.2	4.22-6.60	3/8" M
5-30012	K5.3	6.60-10.83	3/8" M
462551E	K5.1	2.90-4.22	1/2" M
462552E	K5.2	4.22-6.60	1/2" M
462553E	K5.3	6.60-10.83	1/2" M

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.



K7 - 0-3000 psi

Part No.	Model	GPM	Outlet
<b>K7 - 0-3000 psi</b>			
5-30030	K7.0	2.11-2.90	3/8" M
5-30031	K7.1	2.90-4.22	3/8" M
5-3003	K7.2	4.22-6.60	3/8" M
462573	K7.3	6.60-10.8	3/8" M



ZK1 - 0-3600 psi

- 3/8" inlet
- 1/2" bypass
- 1/2" discharge
- 165°F

Part No.	Model	GPM	Outlet
462525	ZK1	2.4-10.8	1/2" M



K9 - 0-5800 psi

- 1/2" FPT
- 165°F

Part No.	Model	GPM	Outlet
462574	K9	13.2	1/2" M

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

Part No.	Description
1-0059	K3 Maintenance Kit
1-0061	K3 Rebuild Kit
1-0058	K5 Maintenance Kit
1-0060	K5 Rebuild Kit

## 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" FPT inlet
- 3/8" MPT outlet
- 3/8" FPT bypass
- Flow range of 1.4 to 10.8 GPM
- Pressure adjustable 0-3000 psi

Part No.	Description
<b>462575</b>	HM Regulator/Unloader
<b>103072B</b>	Repair Kit

## 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" FPT inlet & outlet
- 3/4" FPT bypass
- Brass body - SS piston & seat

Part No.	Description
<b>462580</b>	Timax Regulator Valve
<b>103051B</b>	Repair Kit

## ST-230 Regulator / Relief Valve **SUTTNER**



- 8 GPM
- Complete pressure regulation 0-3600 psi
- 200°F
- 1/4" FPT Inlet & bypass
- Mounts off-line – No line restrictions
- All brass body with stainless steel piston and seat
- 14 oz weight

Part No.	Description
<b>462590</b>	ST-230
<b>087926</b>	Repair Kit

## ST-280 Regulator / Unloader **SUTTNER**



- 8 GPM
- 3600 psi
- 175°F
- 27.5 oz weight
- Brass housing - stainless steel valve
- 3/8" FPT inlet/outlet
- 1/4" FPT bypass

Part No.	Description
<b>462680</b>	ST-280
<b>088536</b>	Seat Repair Kit "D"
<b>088535</b>	Piston Seal Kit "C"
<b>088534</b>	Poppet Repair Kit

## 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



Part No.	Description
<b>5-3226</b>	ST-261 STD
<b>088211X</b>	Seal Kit
<b>088209</b>	Repair Kit "B"
<b>088466</b>	Outlet Check Kit "A"

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



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

Part No.	Description
<b>5-3225</b>	ST-261/S
<b>84-200261527</b>	Switch Seal Kit

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



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

Part No.	GPM	Model
<b>462691</b>	0.0-2.4	ST-261/I-1
<b>462692</b>	2.4-3.5	ST-261/I-2
<b>462693</b>	3.5-5.5	ST-261/I-3
<b>088260X</b>		Injector Repair without Barb
<b>088424</b>		Injector Repair with Barb

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



Part No.	GPM	Model
<b>462696</b>	0.0-2.4	ST-261/SI-1
<b>462697</b>	2.4-3.5	ST-261/SI-2
<b>462698</b>	3.5-5.5	ST-261/SI-3

### ST-261 Bypass Switch only



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

Part No.	Description
<b>84-200260513</b>	Switch Assy Complete
<b>84-090000050</b>	Micro Switch Only
<b>84-200261527</b>	Seal Kit for Micro Switch

# UNLOADERS

## 13 GPM Pressure Actuated Unloaders



- 800-3000 psi
- 160°F
- Bellville spring washers minimize spikes
- Forged brass bodies/stainless ball & seat
- Four 1/4" side ports enhance versatility
- 1/2" FPT inlet, outlet & bypass ports
- 57.3 oz weight

Part No.	Model No.	Spring	PSI
462934	22910	Silver	800
5-31032	22911	Yellow	1400
5-31033	22912	Red	2400
5-31034	22913	Orange	3000
81-12099	Repair Kit		

## Pressure Actuated Unloaders



462927



462928

- 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

Part No.	Model	GPM	PSI
462927	22760APM	8	3000
462928	22760APM	5	4000

## 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

Part No.	Model No.	GPM	PSI
5-31029	22650	3.0-4.5	3000
462913	22654	3.5-4.8	4000
5-3104	22655	4.5-5.5	3000
5-3105	22656	4.5-6.5	3000
81-22666	Seal Kit		

## 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
- 200°F
- Up to 4500 psi
- Can be panel mounted
- Pressure limit indicated with color coded ring

Part No.	Description	PSI
<b>Without Knob</b>		
463108	Yellow	1500
463110	Red	3000
463114	Black	4500
<b>With Knob</b>		
463108K	Yellow	1500
463110K	Red	3000
463114K	Black	4500
111442	Repair Kit	



### MG4000 with Microswitch

- Can be used as (NO) Normally Open or (NC) Normally Closed
- Use for time delay shut down or as burner control
- Up to 4500 psi
- Panel mountable
- 15 Amp Microswitch

Part No.	Description	PSI
463109K	Yellow	1500
463111K	Red	3000
463105K	Blue	3600
463115K	Black	4500

## VRT Unloader Valves



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

Part No.	Description	PSI
462249	AL605Y - Yellow	1450
462250	AL605 - Red	2950
5-3207	AL606 - Blue	3650
5-3208	AL607 - Black	4350
83-005650213	Repair Kit	

## 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

Part No.	PSI	FPT
462739	200-500	1/4"
462740	400-1000	1/4"
5-3201	800-1500	1/4"
462745*	400-1000 Closed Coupled	
462748*	800-1500 Closed Coupled	
H34300223	Repair Kit for All	

\*Bypass port not threaded

## Gymatic Unloaders



- RK & XM Series Pumps
- 3650 psi rated pressure
- 3-5.5 GPM
- 3/8" M Outlet

Part No.	Model No.	Description
462229	AR20242	1/2" F Inlet no injector
462226	AR20242G	3/4" Inlet (GHF) with no injector
462244	AR20081	1/2" M Inlet fixed inj #1 (2-3 gal)
462235	AR20399	1/2" M Inlet adj inj #1 (2-3 gal)
462236	AR20400	1/2" M Inlet adj injector #2
AR002611		Repair Kit

## AR Unloader



- Direct Mount
- 165°F
- Dual Gun Valve

Part No.	Description	GPM / PSI
5-3202	Zeromatic/83, AR2882	3-10 / 3600
83-1830	Repair Kit, O-Rings Only	

## 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

Part No.	Model No.	Description
462228	AR20821	2-5 GPM, AL Bypass, No injector
462243	AR20890	2-3 GPM, AL Bypass, Adj injector
462246	AR21039	2-3 GPM, Brass Bypass, Adj injector
462245	AR21040	3-4 GPM, Brass Bypass, Adj injector
AR002812		Seal Kit

NOTE: AR has discontinued the Combiset unloaders. Use Mini-Mate unloaders as replacements. For 22mm twist coupler outlet models add Landa part # 331307 (3/8" x 22mm) to injector outlet.

## Unloader Mounting Block

End vibration-caused fitting failure, 3 styles available.



- 12 GPM
- 5500 psi
- Solid brass construction
- Relieves pump head & fitting stress due to vibration
- Mounting hardware included

Part No.	Description
95-07101215/B	1/2" x 1/2"
95-07101216/B	3/8" x 3/8"
95-07101218/B	3/8" x 1/2"

## YU - High Volume Unloader



- 21 GPM
  - 1/2" FPT inlet, outlet
  - 2 - 1/2" FPT bypass ports
  - 200°F
  - Forged brass body
  - SS internals
- YU-2121 Yellow Spring**
- 2450 psi max pressure
  - 2200 psi rated pressure
- YU-2140 Green Spring**
- 4350 psi max pressure
  - 4050 psi rated pressure

Part No.	Description
462628	2121 Yellow Spring
462629	2140 Green Spring
111340	Repair Kit

## J.E. Adams Unloader



- 3/8" FPT
- 200°F

5-3009

Part No.	GPM	PSI	Model No.
5-3009	8	3000	7300 - Red Spring
5-3010	8	2000	7100 - Brown Spring
85-7130			Repair Kit

## MV-520 Unloader



- 3/8" MPT
- 3/8" FPT bypass
- 195°F
- Stainless steel seat & piston

Part No.	GPM	PSI	Model No.
5-3505	8.0	2000	MV-520
8-34300397			Repair Kit

# UNLOADERS

## VS200 /180 High Volume Regulator



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

Part No.	Description
<b>463705</b>	VS 200/180
<b>111520</b>	Repair Kit

## 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

Part No.	Description
<b>463720</b>	VS 350
<b>111832</b>	Repair Kit

## Pressure Regulator



- Lowers city water pressure for better machine performance
- 10-125 psi

Part No.	Description
<b>2-30074</b>	Pressure Regulator

## VS500 High Pressure Regulator /Relief Valve



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

Part No.	Description
<b>463725</b>	VS 500
<b>111850</b>	Repair Kit

## VS220 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

Part No.	Description
<b>463655</b>	VS 220 without Knob
<b>111576</b>	Repair Kit

## 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

Part No.	Description
<b>390103</b>	S – R Valve
<b>390123</b>	S – 3 Valve

## Regulating Relief Valve



Economical replacement for paraplate BR5 Series.



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

Part No.	Description
<b>462585</b>	Relief Valve
<b>075127</b>	Repair Kit

## Amerimax Injector

The Higher Rate Injector. Our Best Seller!



- Brass housing
- Stainless Steel orifice
- Fully adj metering valve
- Stainless Steel spring
- 3500 psi
- 3/8" MPT inlet/outlet
- 1/4" hose barb

Part No.	Description
<b>Standard</b>	
<b>360130</b>	"0", 1-2 GPM
<b>360131</b>	"1", 2-3 GPM
<b>360132</b>	"2", 3-5 GPM
<b>360133</b>	"3", 5-8 GPM
<b>075122X</b>	Repair Kit (SS check ball)

### "Acid" Injector with Special Inlet Check Valve

<b>360140X</b>	"0A", 1-2 GPM
<b>360141X</b>	"1A", 2-3 GPM
<b>360142X</b>	"2A", 3-5 GPM
<b>360143X</b>	"3A", 5-8 GPM
<b>075123X</b>	Acid Repair Kit (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

Part No.	Description
<b>Amerimax "QC"</b>	
360135X	Quick Coupled "0", 1-2 GPM
360136X	Quick Coupled "1", 2-3 GPM
360137X	Quick Coupled "2", 3-5 GPM
360138X	Quick Coupled "3", 5-8 GPM
075122X	Repair Kit (SS check ball)
<b>Amerimax Acid "QC"</b>	
360145X	Quick Coupled "0A", 1-2 GPM
360146X	Quick Coupled "1A", 2-3 GPM
360147X	Quick Coupled "2A", 3-5 GPM
360148X	Quick Coupled "3A", 5-8 GPM
075123X	Acid Repair Kit (Ceramic check ball)

## 5500 PSI Stainless Steel Chem Injector



3-1208

- Stainless steel construction
- 210°F max
- Complete with hose and filter



4-011186

Part No.	Description	GPM	PSI
3-1208	Non-Adjustable, Injector Only	2.0-4.0	5500
4-011186	Assembly	2.0-4.0	5500

## 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

Part No.	Description
360163	Hi/Lo Injector with Meter Valve
360165	without Chemical Adjust
075136	Repair Kit
075136X	Seal Kit

## 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

Part No.	Flow Rate
360155	1.5-4.0 GPM
360156	4.0-7.0 GPM

## 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

Part No.	Description
3-1006	ST-62
088424	Repair Kit "F"

## ST-61 Chemical Metering Valve



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

Part No.	Description
371161	ST-61

## ST-60 Chemical Injector



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



- Forged brass body
- Compact size
- Injection rate to 10%

Part No.	Description
360120	1.50 - 2.25, ST-60/0
360121	2.25 - 3.35, ST-60/1
360122	3.35 - 5.00, ST-60/2
088424	Repair Kit "F"

# INJECTORS & VALVES

## 400 Series Chemical Injectors



The Injector of choice.



- Teflon® valve seat
- 3/8" inlet & outlet (3 configurations)
- Forged brass housing
- Renewable orifices & check valve
- 3200 psi / 200°F
- Options include: Quick-coupled, SS orifices/ acid-resistant check
- Only 5 oz weight

**Adjustable Injectors**, Precise needle metering valve.

Orifice Selection	
Orifice Dia.	Flow Rate
1.6mm	1.5-2.7 GPM
1.8mm	2.0-3.6 GPM
2.1mm	2.7-4.9 GPM
2.3mm	3.3-6.0 GPM

Orifice Size (mm)	M x M	M x F	F x M
<b>Brass</b>			
1.6	360406	360416	360426
1.8	360400	360410	360420
2.1	360401	360411	360421
2.3	360402	360412	360422
<b>Stainless Steel</b>			
1.6	360406S	360416S	360426S
1.8	360400S	360410S	360420S
2.1	360401S	360411S	360421S
2.3	360402S	360412S	360422S
<b>Brass/Acid-Resistant</b>			
1.6	360406A	360416A	-
1.8	360400A	360410A	360420A
2.1	360401A	360411A	360421A
2.3	360402A	360412A	360422A
<b>Stainless Steel/Acid-Resistant</b>			
1.6	360406AS	360416AS	360426AS
1.8	360400AS	360410AS	360420AS
2.1	360401AS	360411AS	360421AS
2.3	360402AS	360412AS	360422AS

Part No.	Description
<b>Repair Kits</b> include Check Ball, Spring, Seat & O-ring	
109220X	Standard Kit
109222X	Acid Kit

## Robokim Quick-Coupled Chemical Injectors



- Quick-Couplers: 3/8" QC plug inlet, 3/8" QC socket outlet
- 6' Industrial Grade poly-braid reinforced tubing
- Brass chemical filter with stainless steel check valve

Part No.	Model No., GPM
<b>Robokim "QC" with Plastic Knob</b>	
360210X	"0", 2.1-2.9
360211X	"1", 3.0-4.0
360212X	"2", 4.0-5.5
360213X	"3", 5.5-10.8
<b>Robokim "QC" with Brass Knob</b>	
4-011182	"0", 2.1-2.9
4-011181	"1", 3.0-4.0
4-01118	"2", 4.0-5.5
360233X	"3", 5.5-10.8

## 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

Part No.	Model No., GPM
<b>Robokim with Plastic Meter Knob</b>	
360200	"0", 2.1-2.9
360201	"1", 3.0-4.0
360202	"2", 4.0-5.5
360203	"3", 5.5-10.8
<b>Robokim with Brass Meter Knob</b>	
3-12041	"0", 2.1-2.9
3-12042	"1", 3.0-4.0
3-1204	"2", 4.0-5.5
3-12044	"3", 5.5-10.8
<b>Kits</b>	
1-190000	Repair Kit
077010X	Acid Kit

## Downstream Chem Injectors



### Fixed Down Stream Injectors



- Down stream, non-adjustable
- Some with built in coupler and nipple

injector only

Complete assembly with hose and filter

Part No.	Description	GPM	PSI
3-1201	Non-Adjustable, 190°, Injector only	1.0-2.0	3500
3-1202	Non-Adjustable, 190°, Injector only	2.0-3.0	3500
3-12021	Non-Adjustable, 190°, Injector only	3.0-4.0	3500
4-0111831	Complete Assy with Hose, Filter	1.0-2.0	3500
4-011183	Complete Assy with Hose, Filter	2.0-3.0	3500
4-011184	Complete Assy with Hose, Filter	3.0-4.0	3500

### Adjustable Down Stream Injectors



- Down stream, adjustable
- With built in coupler and nipple

Part No.	Description	GPM	PSI
3-1203	Chem, Adj, 190°	5.0-8.0	3500
3-12031	Chem, Adj, 190°	3.0-5.0	3500
3-12032	Chem, Adj, 190°	2.0-3.0	3500

## Adjustable Quick-Connect Injector



- 3500 psi
- 200°F

Part No.	GPM
360240	2-3
360242	3-5
360244	5-8

### Acid Injectors

360240A	2-3
360242A	3-5
360244A	5-8
080055	Injector Repair Kit
080056	Injector Acid Kit

## Series 505 Stainless Steel & Brass Injectors



All metal parts are stainless steel or brass.



- Premier type injector
- 3200 psi
- 3/8" inlet/outlet
- 190°F

Part No.	Description	GPM
<b>505 Stainless Steel</b>		
360505/1.8	SS Injector 1.8	2.0 – 3.6
360505/2.1	SS Injector 2.1	2.7 – 4.9
360505/2.3	SS Injector 2.3	3.3 – 6.0
109234	Repair Kit	

### Brass

360245	Brass Injector 1.8	2.0 – 3.6
360246	Brass Injector 2.1	2.7 – 4.9
360247	Brass Injector 2.3	3.3 – 6.0
109235	Repair Kit	

## 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

Part No.	Description
385127*	Weep Seat
385125	Non-Weep
385126**	With Switch
385128	Hose Barb with Viton Check
385129	Hose Barb with Buna Check

\* Weep Seat allows pump to self-prime  
 \*\* With burner control switch automatically turns burner off when water flow stops

## Adjustable Bronze Float Valves



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

Part No.	Thread	Stem	GPM @ 40 PSI
2-3012	3/8"	1/4" – 20	10
2-3011	1/2"	1/4" – 20	17
2-30110	3/4"	1/4" – 20	31
343306	1"	1/4" – 20	47
343307	1-1/4"	3/8" – 16	80

NOTE: Float valves above require stem & float, below

### Repair Parts for Adjustable Valves

076406*	Long Arm
076407*	Short Arm
076408*	Thumb Screw
076411	Thumb Screw (for 1" Valve)
076418	3/8" & 1/2" Plunger
076420	3/4" Plunger
076422	1" Plunger

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

## Copper & Plastic Float Balls



Part No.	Length	Material	Thread
343326	4" x 5"	Copper	1/4" – 20
343317	5"	Copper	1/4" – 20
343318	6"	Copper	1/4" – 20
<b>Plastic</b>			
343319	4-1/2"	Plastic	1/4" – 20
343320	5"	Plastic	1/4" – 20
343321	6"	Plastic	1/4" – 20
343322	6"	Plastic	5/16" – 18
343323	8"	Plastic	1/4" – 20
343325	4" x 5"	Plastic	1/4" – 20

Parts for other float valves also available

## Stems Only



Part No.	Length	Material	Thread
343310	8"	Brass	1/4" – 20
343310C	8"	Brass	1/4" – 20 x 5/16" – 18
343311	8"	Brass	5/16" – 18
343315	10"	Brass	1/4" – 20
343313B	18"	Brass	3/8" – 16
343316	19"	Brass	1/2" – 20

Parts for other float valves also available

## Float Valves



Part No.	Description
2-3014	Valve, Fluidmaster, 400A, Float
2-30140	Connector, Fluidmaster Ball Cock

## PA Float Valve



- 140°F
- 3/8" MPT inlet
- Brass body
- Positional/adjustable arm
- 5 GPM max flow @ 15 psi
- 7 GPM max flow @ 30 psi



Part No.	Description
2-30121	3/8" Float Valve
110250	Repair Kit

## Brass Float Valve Assembly



COMPLETE: Valve, Stem & Float



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

Part No.	Description
2-30115	ST-8
085331	Repair Kit
343012*	MPT Adapter Kit for ST-8

\*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

Part No.	Description
343050	Valve Complete
109502	Repair Kit

## 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

Part No.	Description
343007	Float Valve Complete

## 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)

Part No.	Description
343022	1" Hudson Float Valve, 90°
343026	1" Hudson Float Valve, 150°

## 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

Part No.	Description
2-30062	Back Flow Preventor

## Check Valves - Swing Action

Retain prime on pumps with low lift capability



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

Part No.	Description
310862	1/2"
310863	3/4"
310864	1"
310865	1-1/4"
310866	1-1/2"
310868	2"

## Stainless Steel Check Valves



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



Part No.	Description	GPM Flow Rate
310827	1/4" F x F	6.5
310828	3/8" F x F	13.5

## High Pressure Check Valves

2500 or 3000 psi ball check.



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

Part No.	Description
<b>2500 PSI Miniature Ball Check</b>	
310814	1/4"; M x F
310815	1/4"; M x M

### 3000 PSI Stainless Guided Ball & Quad Ring Seat

310820	1/4"; F x F
310822	3/8"; F x F

## Check Valves - 1200 PSI

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



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

Part No.	Description
310804	1/4"; F x F
310806	3/8"; F x F
310808	1/2"; F x F
310811	3/4"; M x M

## 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

Part No.	Description
310872	1/2"
310873	3/4"
310874	1"

## 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

Part No.	Description
310834	1/4" MPT x 1/4" Barb
310835	1/4" Barb x 1/4" MPT
310837	1/4" Barb x 1/4" Barb
310838	3/8" Barb x 3/8" Barb
310844*	1/2" Barb x 1/2" Barb

\*310844 has viton seals

## 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

Part No.	Description
306534	1/4" F x F
306536	3/8" F x F
306538	1/2" F x F
306540	3/4" F x F

## Forged Brass Ball Valves



- 600 psi
- 180°F Working Temperature
- Forged brass body
- Full flow ports

M x F	F x F	M x M	Size
306525	306525F	306525M	1/4"
306526	306526F	306526M	3/8"
306527	306527F	306527M	1/2"
306528	306528F	306528M	3/4"
306529	306529F	306529M	1"

## Nickel-Plated Brass Ball Valves



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

Part No.	Size	PSI
306504	1/4"	710
306506	3/8"	710
306508	1/2"	710
306512	3/4"	570
306516	1"	570
306520	1-1/4"	430
306524	1-1/2"	430
306532	2"	360

## Mini Ball Valves



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

M x F	F x F	M x M	Size
<b>306350</b>	<b>306350F</b>	–	1/8"
<b>306352B</b>	<b>306352F</b>	<b>306352M</b>	1/4"
<b>306354B</b>	<b>306354F</b>	<b>306354M</b>	3/8"

## High Pressure Ball Valves



- Rugged carbon steel construction
- 2-way
- NPT (F x F) threads
- Blow-out proof stems
- Delrin ball seats
- Viton O-rings

Part No.	FPT	PSI
<b>306552</b>	1/4" x 1/4"	7350
<b>306553</b>	3/8" x 3/8"	7350
<b>306554</b>	1/2" x 1/2"	7350
<b>306556</b>	3/4" x 3/4"	5880

## Stainless Steel High Pressure Ball Valves - 5800 PSI



- 316 Stainless steel body, ball & stem
- Viton O-rings
- Delron ball seats
- Full Port

Part No.	FPT	PSI
<b>306553S</b>	3/8" x 3/8"	5880
<b>306554S</b>	1/2" x 1/2"	5880
<b>306556S</b>	3/4" x 3/4"	5880
<b>306558S</b>	1" x 1"	5880

## 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

Part No.	FPT
<b>306582</b>	1/4" x 1/4"
<b>306583</b>	3/8" x 3/8"
<b>306584</b>	1/2" x 1/2"
<b>306585</b>	3/4" x 3/4"

## 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

Part No.	FPT
<b>306542</b>	1/8" x 1/8"
<b>306544</b>	1/4" x 1/4"
<b>306546</b>	3/8" x 3/8"
<b>306548</b>	1/2" x 1/2"

## Polypropylene Ball Valves

Full port reinforced polypropylene.



306390



306412

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

Part No.	FPT
<b>Two-Way Ball Valves</b>	
<b>306390</b>	1/2" x 1/2"
<b>306392</b>	3/4" x 3/4"
<b>306394</b>	1" x 1"
<b>306398</b>	1-1/2" x 1-1/2"
<b>306400</b>	2" x 2"

<b>Three-Way Ball Valves</b>	
<b>306408</b>	1/2" x 1/2" x 1/2"
<b>306412</b>	3/4" x 3/4" x 3/4"
<b>306416</b>	1" x 1" x 1"
<b>306420</b>	1-1/4" x 1-1/4" x 1-1/4"
<b>306422</b>	1-1/2" x 1-1/2" x 1-1/2"
<b>306424</b>	2" x 2" x 2"

## Compact PVC Ball Valves



- FPT thread both ends
- 150°F
- 150 psi working pressure
- EPDM seals - white body
- Easy turn handle

Part No.	FPT
<b>306444</b>	1/4" x 1/4"
<b>306448</b>	1/2" x 1/2"
<b>306450</b>	3/4" x 3/4"
<b>306452</b>	1" x 1"
<b>306454</b>	1-1/4" x 1-1/4"
<b>306456</b>	1-1/2" x 1-1/2"
<b>306460</b>	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.	Description
306352P	1/4" Panel Mtg - Barb x Barb
306354P	1/4" Inline - Barb x Barb
306356	3/8" Inline - Barb x Barb
306358	1/2" Inline - Barb x Barb

## 3-Way Ball Valve



- 400 psi
- 180°F
- Teflon seat
- Buna seals
- Brass

Part No.	Description
306331	1/4" M x F x F

## Flow Selector Valve

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



- **4-way**  
Plumb for 3 inlets & 1 outlet or 1 inlet & 3 outlets
- **3-way**  
Plumb for 2 inlets & 1 outlet or 1 inlet & 2 outlets

Part No.	Description
343734	1/4" FPT 3-Way
343736	3/8" FPT 3-Way
343744	1/4" FPT 4-Way
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.	Description
371125	1/4", FPT In/out
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.	Description
371120X	Metering Valve / Alum Knob
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

Part No.	Description
371115	"T" 1/4 F x F - Forged
371116	"L" 1/4 M x M - Machined

## Chemical Metering Valves / On-Off Valve



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

Part No.	Description
371100	MV-100
2-30158	MV-150
2-3028	MV-250 with Locknut

## 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

Part No.	Description
371166	ST-66

## GP Chemical Metering Valves



- Adjusts from off to full flow
- 4000 psi
- 6 GPM
- 2-30151 has presettable limiting orifice

Part No.	Description
2-3015	Flow Control
2-30151	Flow Control with Locking Adjustment

## 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 by-pass 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

Part No.	Inlet	"Trip" Temp
458000	1/4" MPT	140°F
458001	3/8" MPT	140°F
458002	3/8" MPT	170°F
458005	1/2" MPT	140°F
458007	1/2" MPT	170°F

## Compact Thermal Relief Valves



- 145°F "Trip" temperature

Part No.	Inlet	"Trip" Temp
458024	1/4" MPT	145°F
2-300816	3/8" MPT	145°F
2-30082	1/2" MPT	145°F
2-3008150	1/2" MPT	190°F

## 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

Part No.	Orifice (mm)
400008	0.8
400012	1.2
400015	1.5
400018	1.8
400020	2.0

## TRV Thermal Relief Valves

Low Profile!



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

Part No.	Inlet
458030	1/4"
458032	3/8"
458034	1/2"

## Safety Pressure Relief Valves



- Prevents pressure overloads, protecting people and equipment
- Machined brass
- Automatically resets
- 3/8" MPT

Part No.	Max PSI	Size
81-22550	1200 (Silver Spring)	1/4"
81-22560	2400 (Red Spring)	1/4"
81-22565	3600 (Orange Spring)	1/4"
2-3245	5000 PSI	3/8"

## Rupture Disks



- Prevents dangerous thermal expansion of water in the coil
- Ensures operator safety

Part No.	Description
<b>2-3409</b>	Assembly, 7000 psi

## Air Valve - Coil Blow Out

Install 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

Part No.	Description
<b>2-30131</b>	Valve Assy, fits Garden Hose Inlet Swivel
<b>2-30132</b>	Valve Assy, fits Water Tanks
<b>2-3013</b>	Air Valve Stem Only, 1/8"
<b>140073</b>	1/8" Stainless Steel Connect
<b>140075</b>	1/4" Connect

## 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)

Part No.	Discharge	Outlet
<b>385130</b>	20 psi	1/2" FPT
<b>2-3010</b>	20 psi	3/4" MGH
<b>385133</b>	30 psi	3/4" MGH
<b>385134</b>	40-50 psi	3/4" MGH

## E-Z Start Valve



Relieves pump head pressure during engine/motor starting, seals when full system flow is reached, saving battery and arm power. Cuts Amp draw on electric motors.



- 1/4" or 3/8" MPT inlet
- 1/8" FPT outlet
- 8 GPM
- Stainless steel spring and ball
- 5000 psi

Part No.	Description
<b>2-3100543</b>	1/4" MPT x 1/8" FPT
<b>2-3100544</b>	3/8" MPT x 1/8" FPT

## Easy Start Valve

Relieves pump head pressure during engine/motor starting, seals when full system flow is reached, saving battery & arm power. Cuts Amp draw on electric motors startup.



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

Part No.	Description
<b>339004</b>	Easy Start Valve, 4100 psi
<b>339005</b>	Easy Start Valve, 3500 psi
<b>140350</b>	Hose Barb, 1/8 x 1/4 barb

## Easy Start Valve



Relieves pump head pressure during engine/motor starting, seals when full system flow is reached, saving battery & arm power. Cuts Amp draw on electric motors startup.



- 3/8" MPT inlet
- Hose barb outlet (8 mm)
- Machined brass body
- Stainless steel spring & ball
- 7.8 GPM
- 3200 psi
- 176°F

Part No.	Description
<b>339006</b>	Easy Start Valve

## 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 buildup.



- 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

Part No.	Description
<b>339000A</b>	Throttle Control

## 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  $\pm 1.5\%$

Part No.	Pressure Range
<b>2-1/2" Bottom Mount with Bronze Internals</b>	
348216	0-100 psi
348220	0-200 psi
348224	0-300 psi
348230	0-500 psi
348240	0-1000 psi
348245	0-2000 psi
348250	0-3000 psi
348255	0-4000 psi
348260	0-5000 psi
348262	0-6000 psi
348265	0-10,000 psi
<b>2-1/2" Back Mount with Bronze Internals</b>	
348125	30Hg - 0 Vacuum
348140	0-100 psi
348150	0-500 psi
348152	0-1000 psi
348154	0-2000 psi
348156	0-3000 psi
348158	0-4000 psi
348160	0-5000 psi
348162	0-6000 psi
348165	0-10,000 psi
<b>Mounting Hardware for Back Mount Gauges</b>	
348001	U-bracket
348090*	3-hole flange, mounted

\*must be factory mounted

## Steel Utility Gauges

Dry Gauges!



- Black lacquered steel case
- Bronze bourdon tube
- Dry gauge
- 1/4" NPT brass mounting stem
- Accuracy  $\pm 3-2-3\%$

Part No.	Pressure Range
<b>2" bottom mount</b>	
348552	0-60 psi
348554	0-100 psi
348558	0-200 psi
348560	0-300 psi

## Corrosion-Resistant ABS Gauge



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

Part No.	Pressure Range
348305	0-100 psi
348307	0-200 psi
348308	0-300 psi
348312	0-1000 psi
348313	0-2000 psi
348314	0-3000 psi
348316	0-5000 psi

## Fuel Oil Pressure Gauge



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

Part No.	Pressure Range
079020	0 - 200 psi

## AMP Meters



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

Part No.	Range
091321	-15 to +15 Amps
091323	-20 to +20 Amps
091344	-60 to +60 Amps

\*Requires 2-1/8" hole

## Hour Meters for Gasoline Engines



- Elapsed time
- Made in U.S.A.
- No battery required
- Digital quartz accuracy ( $\pm .02\%$ )
- Extremely rugged & tamperproof
- Sealed from dirt & moisture
- Requires 2" panel cutout

Part No.	Description
358460	For Recoil Start / 4-40 VDC
358464	For Electric Start / 4-40 VDC
358466	Minitach/ Hourmeter

## Hour Meter



- Elapsed time
- Extremely rugged and tamperproof
- Sealed from dirt and moisture

4-050822  
4-050823

Part No.	Description
4-050822	110V/230V
4-050823	12V
4-0508	VDO, 12VDC, Round, old style
4-050820	Tachometer/Hour Meter 12VDC

## Voltmeter



- Monitor alternators/generators
- Everclear glass lens
- Versatile — use as TEST instruments or mount permanently on or near engine — accurate to within 10% of full scale

Part No.	Description
4-0507	120 VAC SGHW, SDHW

## Temperature Gauges



(Dial Thermometers)



- 3" diameter dial – stainless steel case
- Shatter-resistant polycarbonate lens
- Stainless steel stem (2.5")
- 1/2" MPT connector
- Accuracy to within 3% of dial range (ie. 50 - 500 = ± 6.8°F)

Part No.	Description
426410	Temp Gauge +50° to 500°F

NOTE: "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.

### Thermowell for temperature gauge above

- Brass 3/4" MPT x 1/2" FPT
- Gives 2000 psi collapse protection
- 1.75" immersion length

Part No.	Description
426423	Thermowell for 426410 above

## 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  
5000 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

4-0601

Part No.	Description
4-0601	Test Set 5000 (0-2500 psi systems)
449048	Test Set 8000 (0-4000 psi systems)
449040	Test Set 10,000 (0-5000 psi systems)
4-0600	Pressure Gauge Assy (0-5000 psi)

## 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.	GPH	Metal	Metering Valve
343722	.6 – 5	Brass	no
343723	.6 – 5	Brass	yes
343726	2 – 10	Brass	no
343727	2 – 10	Brass	yes
343724	.6 – 5	SS	no
343725	.6 – 5	SS	yes
343728	2 – 10	SS	no
343729	2 – 10	SS	yes

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