

HOTSY Unloaders



- Head mount or remote
- Lock device
- Hotsy proven performer's

921460

971555

Part No.	Description	GPM	PSI
921501	XSM w/o Knob 1/4 Bypass	6.6	500
921467	XSM w/o Knob 1/4 Bypass	6.6	4500
921505	XSM w/o Knob 3/8 Bypass	6.6	2500
921462	H/M Duplex Pumps	6.6	1000
921378	H/M High Temp O-rings	6.6	600
921460	H/M Sml & Med Triplex Pumps	6.6	3000
921461	H/M Sml & Med Triplex w/ Hi Flow Banjo	6.6	3000
921464	H/M SST Pumps	6.6	3000
921465	H/M SST w/ Hi Flow Banjo Bolts	6.6	3000
921300	SM w/o Knob	6.6	2200
921304	SM w/o Knob	6.6	1000
971179	SM w/o Knob	6.6	1500
971583	LG w/o Knob	8.0	1000
971582	LG w/ Knob	8.0	1500
971581	LG w/ Knob	8.0	2200
971580	LG w/ Knob	8.0	3000
921391	XLG w/ Knob	13.2	2000
921390	XLG w/ Knob	13.2	3000

NOTE: Kits available - Call Hotsy Technical Support

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 w/o Knob
462320K	520 w/ Knob
462330	540 w/o Knob
462330K	540 w/ Knob
462340K	560 w/ 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	w/o Knob
462335K	w/ Knob
109060	Seal Repair Kit
109062	Valve Seat Repair Kit

550 Regulator / Unloader with Bypass Switch



Same features as AP550 (above); Integral switch detects Full Bypass Mode.



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

Part No.	Description
462336	w/o Knob
462336K	w/ Knob
109060	Seal Repair Kit
109062	Unloader Seat Repair Kit
082022	Replacement Micro Switch

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

Part No.	Description
463350	w/o Knob
463350K	w/ Knob
109060	Seal Repair Kit
109062	Valve Seat Repair Kit

Pulsar Unloader



- 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) w/ Knob
462651	Pulsar 3 (Blue) w/o Knob
462653	Pulsar 3 (White) w/o Knob
462654	Pulsar 3 (White) w/ Knob
463150	Pulsar 280 HP
111100	Repair Kit – Pulsar 3
111375	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	w/o Knob
463670K	w/ 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 & valve seat
- Stainless steel valve seat
- 14.7 oz weight

Part No.	Description
463660	w/o Knob
463660K	w/ Knob
111150	Repair Kit
463600	Knob Only

VB 8 Unloader w/ Pressure Switch



- 3/8" FPT inlet/outlet/bypass
- 195°F
- 8 GPM
- 3650 PSI

Part No.	Description
921579	VB8 w/ Pressure Switch

VB 80 Regulator/Unloader



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



- 200°F
- Pressure actuated
- Forged brass body
- Stainless steel plunger & seat
- 1/2" FPT in-out-bypass
- 45 oz weight

Part No.	Description
462655	VB80/280 - Blue Spring, 4000 PSI
462657	VB80/150 - White Spring, 2200 PSI
111300	Repair Kit

VB75 / VB135 Unloaders



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



VB135

- 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

Part No.	Description
VB75	
921809	Series 47 pumps (W151)
111175	Seal Kit
463600	Knob Only
VB135	
921806	VB 135
463600	Knob Only

VB350/4 Unloader



- 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
463680K	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



- 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

Part No.	Description
921580	VB9 w/ Knob
921578	VB10 w/ Knob (YU 3678)
111336	Repair Kit VB9
111400	Repair Kit VB10
111401	Seal 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" FPT Inlet, outlet & bypass
- Two 5/16" - 18 bolt mounting ports
- 73.5 oz weight

Part No.	Description
463714	VB 200/150 w/o Knob
463715	VB 200/150 w/ 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

"K" Series Pressure Regulators Repair Kits



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

Part No.	Description
726407	K3 Maintenance Kit
726410	K3 Rebuild Kit
726406	K5 Maintenance Kit
103060B	K5 Rebuild Kit
140070	K5 Back Nut 3/4" NPT
726420	K7 Repair Kit
103121B	K9 Repair Kit

"K" Series Pressure Regulators



Unloaders relieve line pressure in bypass mode.



K3 - 0-1500 PSI

- 3/8" FPT Inlet
- 165°F
- 1/2" FPT B

Part No.	Model	GPM	Outlet
K3			
462530A	K3.0	2.10-2.90	3/8" M
726565	K3.1	2.90-4.22	3/8" M
726566	K3.2	4.22-5.55	3/8" M
726567	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



K7 - 0-3000 PSI

Part No.	Model	GPM	Outlet
K5			
726569	K5.1	2.90-4.22	3/8" M
726570	K5.2	4.22-6.60	3/8" M
726572	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.

- 3/8" FPT
- 165°F

Part No.	Model	GPM	Outlet
726573	K7.0	2.11-2.90	3/8" M
726574	K7.1	2.90-4.22	3/8" M
726575	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

UNLOADERS

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	Fits Pump
"W" Series Unloaders				
921423	W1	4.00	1600	W905
462639	W1-L	4.00	1600	W99
921425	W2	5.56	3000	W997
921424	W2-L	5.56	3000	W201
753073	W2/W2L Rebuild Kit			
103098B	W1/W1L Rebuild Kit			

Part No.	Model	GPM	PSI	Fits Pump
"W" Series Unloaders with Injectors				
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			

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
462575	HM Regulator/Unloader
103072B	Repair Kit

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

ST-261 Regulator / Unloader



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

ST-261 Standard



Part No.	Description
728406	ST-261 STD
088211X	Seal Kit
088209	Repair Kit "B"
088466	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
921530	ST-261/S
728370	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
462691	0.0-2.4	ST-261/I-1
462692	2.4-3.5	ST-261/I-2
462693	3.5-5.5	ST-261/I-3
088260X	Injector Repair w/o Barb	
088424	Injector Repair w/ Barb	

ST-261/SI Unloader with Switch and Injector



Part No.	GPM	Model
462696	0.0-2.4	ST-261/SI-1
462697	2.4-3.5	ST-261/SI-2
462698	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
462626	Switch Assy Complete
088272	Micro Switch Only
728370	Seal Kit for Micro Switch

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
462590	ST-230
087926	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
462680	ST-280
088536	Seat Repair Kit "D"
088535	Piston Seal Kit "C"
088534	Poppet Repair Kit

13 GPM Pressure Actuated Unloaders



- 13 GPM
- 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	PSI	Spring
462934	22910	800	Silver
462935	22911	1400	Yellow
921405	22912	2400	Red
921404	22913	3000	Orange
753051	Repair Kit		

Pressure Actuated Unloaders *GIANT*



- 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

462927

462928

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	GPM	PSI
462909	22650	3.0-4.5	0-3000
725797	22654	3.5-4.8	3000-4000
725798	22655	4.5-5.5	0-3000
725799	22656	4.5-6.5	0-3000
G022666	Seal 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	Bypass
462739	200-500	1/4" FPT
462740	400-1000	1/4" FPT
728557	800-1500	1/4" FPT
462745	400-1000 Close Coupled*	
462748	800-1500 Close Coupled*	
H34300223	Repair Kit for All	

*Bypass port not threaded

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		

J.E. Adams Unloader



- 3/8" FPT
- 200°F

Part No.	GPM	PSI	Model No.
5-3009	8.0	3000	7300-Red
5-3010	8.0	2000	7100-Brown
85-7130	Repair Kit		

5-3009

UNLOADERS

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
Without Knob		
463108	Yellow	1500
463110	Red	3000
463114	Black	4500
With Knob		
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	Yellow, AL605Y	1450
462250	Red, AL605	2950
921485	Blue, AL606	3650
921585	Black, AL607	4350
783100	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	

5-3202

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	GPM
906007	AR20608	AL Bypass, No inj	3-5.5
462228	AR20821	AL Bypass, No inj	2-5
462243	AR20890	AL Bypass, Adj inj	2-3
462246	AR21039	Brass Bypass, Adj inj	2-3
462245	AR21040	Brass Bypass, Adj inj	3-4
AR002812		Seal Kit	

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

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 inj
462226	AR20242G	3/4" Inlet (GHF) w/ no inj
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

Comet Unloader Insert



- Fits AXD Comet Pump

Part No.	GPM	PSI	Description
5-3000	2.0	1000	AXD Unloader Insert

Unloader Mounting Block



End vibration-caused fitting failure, 3 styles available.



- 12 GPM
- Mounting hardware included

Part No.	Description	Material	PSI
462183X	3/8" x 3/8"	Brass	5500
462182X	1/2" x 1/2"	Brass	5500

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
463705	VS 200/180
111520	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
463720	VS 350
111832	Repair Kit

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

Part No.	Description
463725	VS 500
111850	Repair Kit

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

Part No.	Description
463655	VS 220 w/o Knob
111576	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
390103	S - R Valve
390123	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
462585	Relief Valve
075127	Repair Kit

Timax Pressure Regulator Valve



- 52 GPM
- 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
462580	Timax Regulator Valve
103051B	Repair Kit

Inlet Chemical Injector



- Two adjusting knobs for incoming water pressure and detergent metering

Part No.	Description
873596	Hotsy Dual-Adjusting Injector
753002	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
Standard	
360130	"0", 1-2 GPM
360131	"1", 2-3 GPM
360132	"2", 3-5 GPM
360133	"3", 5-8 GPM
075122X	Repair Kit (SS check ball)

"Acid" Injector w/ Special Inlet Check Valve

360140X	"0A", 1-2 GPM
360141X	"1A", 2-3 GPM
360142X	"2A", 3-5 GPM
360143X	"3A", 5-8 GPM
075123X	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
Amerimax "QC"	
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)
Amerimax Acid "QC"	
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

Downstream Chemical Injectors



Adjustable Injector



Fixed Injector

- Applies detergent while by-passing vital machine components

Part No.	Description
Adjustable	
873579	Hot Water 2.1mm 3/8" M x 3/8" M
873580	Cold Water 2.1mm 3/8" M x 3/8" M
873582	Cold Water 2.3mm 3/8" M x 3/8" M
Fixed - Cold Water	
873594	1.8mm 3/8" F x 3/8" M
873591	2.1mm 3/8" M x 3/8" M
722400	2.1mm 3/8" F x 3/8" M
722436	2.1mm 3/8" qc skt x 3/8" qc plug
875760	2.3mm 3/8" F x 3/8" M
722429	1.8mm 3/8" M x 3/8" M 2-3 GPM Ceramic Check
722430	2.1mm 3/8" M x 3/8" M 3-5 GPM Ceramic Check
Repair Kits	
877665	Repair Kit 873579, 873591
753048	Repair Kit 722429, 722430
753121	Repair Kit 873580, 873582, 873594, 722400, 722436, 875760
908285	Orifice, Blank

ST-64 Upstream Injector



Apply soap at high pressure. Restricts water flow 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 water flow adjustment

Part No.	Description
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 (next page) to regulate chemical injection rate.



- Forged brass body
- 3500 PSI
- 8 GPM

Part No.	Description
728441	ST-62
088424	Repair Kit "F"

ST-61 Chemical Metering Valve



- Snap-on attachment to ST-60, ST-62, ST-261/I (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 (on left) 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"

400 Series Chemical Injectors

The Injector of choice.



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

Adjustable Injectors, precise needle metering valve.

Orifice Size (mm)	M x M	M x F	F x M
Brass			
1.6	360406	360416	360426
1.8	360400	360410	360420
2.1	360401	360411	360421
2.3	360402	360412	360422

Orifice Size (mm)	M x M	M x F	F x M
Stainless Steel			
1.6	360406S	360416S	360426S
1.8	360400S	360410S	360420S
2.1	360401S	360411S	360421S
2.3	360402S	360412S	360422S

Part No.	Description
Repair Kits include Check Ball, Spring, Seat & O-ring	
109220X	Standard Kit

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

Orifice Size (mm)	M x M	M x F	F x M
Brass/Acid-Resistant			
1.6	360406A	360416A	-
1.8	360400A	360410A	360420A
2.1	360401A	360411A	360421A
2.3	360402A	360412A	360422A

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

Part No.	Description
Repair Kits include Check Ball, Spring, Seat & O-ring	
109222X	Acid Kit

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
Robokim w/ Plastic Meter Knob	
360200	"0", 2.1-2.9
360201	"1", 3.0-4.0
360202	"2", 4.0-5.5
360203	"3", 5.5-10.8
Robokim w/ Brass Meter Knob	
726588	"0", 2.1-2.9
360221	"1", 3.0-4.0
726593	"2", 4.0-5.5
360223	"3", 5.5-10.8
725914	Repair Kit
077010X	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 w/stainless steel check valve

Part No.	Model No., GPM
Robokim "QC" w/ Plastic Knob	
360210X	"0", 2.1-2.9
360211X	"1", 3.0-4.0
360212X	"2", 4.0-5.5
360213X	"3", 5.5-10.8
Robokim "QC" w/ Brass Knob	
360230X	"0", 2.1-2.9
360231X	"1", 3.0-4.0
360232X	"2", 4.0-5.5
360233X	"3", 5.5-10.8

INJECTORS

5500 PSI Stainless Steel Chem Injector



3-1208



4-011186

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

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

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 w/ Meter Valve
360165	w/o Chemical Adjust
075136	Repair Kit
075136X	Seal 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 inlet/outlet 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 w/ Viton Check
385129	Hose Barb w/ Buna Check

*Weep Seat allows pump to self-prime

** With burner control switch automatically turns burner off when water flow stops

Series 505 Stainless Steel



All metal parts are Stainless Steel.



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

Part No.	Description
505 Stainless Steel	
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 Injectors



All metal parts are Brass.



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

Part No.	Description
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

Adjustable Quick-Connect Injector



360242



360240A

- 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

Zytel Nylon Float Valve



Part No.	Description
381070	Hotsy 3/8" Zytel Nylon Float Valve

Roberts Float Valves



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

Part No.	Thread	Stem	GPM @ 40 PSI
971420	3/8"	1/4" - 20	10
2-3011	1/2"	1/4" - 20	17
971421	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



343318



343319



343325

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

Plastic

807169	4"	Plastic	1/4" - 20
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

NOTE: Parts for other float valves also available

Stems Only - Brass



343310



343310C

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

NOTE: Parts for other float valves also available

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
727325	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
728446	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
921473	1/2" Hudson Float Valve, 90°
921472	1" Hudson Float Valve, 90°
343026	1" Hudson Float Valve, 150°
753199	Repair Kit, 1/2"
753198	Repair Kit, 1"

Pressure Regulator



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

Part No.	Description
971443	Pressure Regulator

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
385130	20 PSI	1/2" FPT
385132	20 PSI	3/4" MGH
385133	30 PSI	3/4" MGH
385134	40-50 PSI	3/4" MGH

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
921395	Back flow Preventor, Watts 8B

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

Stainless Steel Check Valves



- Rated pressure: 5800 PSI
- 6500 PSI
- 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



310814 310815 310820

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

Part No.	Description
2500 PSI Miniature Ball Check	
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.	Size	Part No.	Size
310804	1/4", F x F	310808	1/2", F x F
310806	3/8", 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.	Size	Part No.	Size
310872	1/2"	310874	1"
310873	3/4"		

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
- 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.	FPT	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
306350	306350F	-	1/8"
306352B	306352F	306352M	1/4"
306354B	306354F	306354M	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	Part No.	FPT	PSI
306552	1/4" x 1/4"	7350	306554	1/2" x 1/2"	7350
306553	3/8" x 3/8"	7350	306556	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	Part No.	FPT
306553S	3/8" x 3/8"	306554S	1/2" x 1/2"

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

Ball Valves



- Full flow ports
- Forged brass body or carbon steel available

Part No.	Description	PSI
971405	1/4" NPT	600
971407	3/8" NPT	600
971408	1/2" NPT	600
921403	3/4" NPT	600
971207	1/2" NPT	2000
971497	1/4" F x 1/4" F, UL Listed for Gas Pilot	

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
306542	1/8" x 1/8"
306544	1/4" x 1/4"
306546	3/8" x 3/8"
306548	1/2" x 1/2"

Polypropylene Ball Valves

Full port reinforced polypropylene.



306390

306412

- 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

Part No.	FPT
----------	-----

Two-Way Ball Valves

306390	1/2" x 1/2"
306392	3/4" x 3/4"
306394	1" x 1"
306398	1-1/2" x 1-1/2"
306400	2" x 2"

Three-Way Ball Valves

306408	1/2" x 1/2" x 1/2"
306412	3/4" x 3/4" x 3/4"
306416	1" x 1" x 1"
306420	1-1/4" x 1-1/4" x 1-1/4"
306422	1-1/2" x 1-1/2" x 1-1/2"
306424	2" x 2" x 2"

Compact PVC Ball Valves



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

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

3-Way Ball Valve



- 400 PSI maximum pressure
- 180° maximum temperature
- 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 / 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

Part No.	Description
371100	MV-100

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



2-3015 2-30151

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

Part No.	Description
727628	Flow Control
2-30151	Flow Control w/ Locking Adjustment

Chemical Metering Valves



921438

- Adjusts from off to full flow
- 4000 PSI
- 6 GPM

Part No.	Description
971559	Valve, 3/8" Metering
921438	w/ 1/4" Hose Nipples
971576	Dual Detergent Metering

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

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

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"

Compact Thermal Relief Valves



- 145°F "Trip" temperature

Part No.	Inlet	"Trip" Temp
458024	1/4" MPT	145°F
921421	3/8" MPT	145°F
921422	1/2" MPT	145°F

Pressure Relief Valves



971182 971184

Part No.	PSI
971204	500
971181	1000
971187	1500
971182	2000
921468	2200
971185	2500
971183	3000
971184	3500
921440	150 PSI/ 210°F

Safety Pressure Relief Valves



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

Part No.	Max PSI	Size
G022550A	1200 (Silver Spring)	1/4"
G022560A	2400 (Red Spring)	1/4"
G022565A	3600 (Orange Spring)	1/4"
G022532A	3600 PSI	3/8"
G022533A	5000 PSI	3/8"

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

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

Part No.	Description
2-30131	Hotsy Valve Assy, fits Garden Hose Inlet Swivel
2-30132	Hotsy Valve Assy, fits Water Tanks
140073	1/8" Stainless Steel Connect
140075	1/4" Connect

Pop-Off Valves



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

Part No.	Max PSI
725786	1200 - Silver Spring
725787	2400 - Red Spring
81-22565	3600 - Orange Spring
2-3245	5000 - Blue Spring

Rupture Disks



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

Part No.	Description
2-3409	Assembly, 7000 PSI

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
- Stainless steel spring and ball
- 8 GPM
- 5000 PSI

Part No.	Description
2-3100543	1/4" MPT x 1/8" FPT
921807	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
- 200°F
- 8 GPM

Part No.	Description
339004	Easy Start Valve, 4100 PSI
339005	Easy Start Valve, 3500 PSI
140350	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
- SS spring & ball
- 3200 PSI
- 176°F
- 7.8 GPM

Part No.	Description
339006	Easy Start Valve

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
2" bottom mount	
348552	0-60 PSI
348554	0-100 PSI
348558	0-200 PSI
348560	0-300 PSI

Fuel Oil Pressure Gauge



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

Part No.	Pressure Range
079020	0 - 200 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

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 = \pm 6.8°F)

Part No.	Description
4-0505*	Temp Gauge +50° to 500°F

**"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

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
2-1/2" Bottom Mount with Bronze Internals	
348216	0-100 PSI
856097	0-200 PSI
348224	0-300 PSI
348230	0-500 PSI
348240	0-1000 PSI
348245	0-2000 PSI
856125	0-3000 PSI
856126	0-4000 PSI
348260	0-5000 PSI
856127	0-6000 PSI
348265	0-10,000 PSI
2-1/2" Back Mount with Bronze Internals	
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

Mounting Hardware for Back Mount Gauges

348001	U-bracket
348090	3-hole flange, mounted*

*must be factory mounted

VALVES & GAUGES

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

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
339000A	Throttle Control

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
- Tachometer shows hours & rpm's

Part No.	Description
783865	for Gas Engines
886536	12 Volt DC
886538	110 Volt
886541	120 Volt
886535	220 Volt
784227	24 Volt AC
4-050820	Tachometer/Hour Meter, 12VDC
890944	Tachometer

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

Part No.	Description
449045	Test Set 5000 (0-2500 PSI systems)
449048	Test Set 8000 (0-4000 PSI systems)
449040	Test Set 10,000 (0-5000 PSI systems)

Detergent Flow Meter



- 100 PSI working pressure
- 150°F
- Measures detergent / water flow ratio

Part No.	Description
886539	Up to 100 PSI @ 150°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 $\pm 5\%$
- 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.