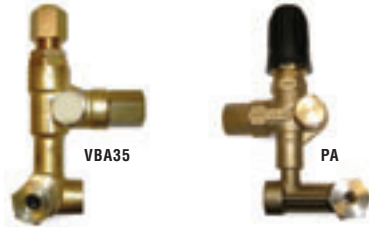


LANDA Unloader Valves

- VBXL** - 13 GPM, 3000 max psi
- VBA35** - 6.6 GPM, 3500 max psi
- PA** - 8 GPM, 3360 max psi
- VB55** - 8 GPM, 3200 max psi

You can also use the Legacy Universal Unloader on page 95



LANDA[®]

New Part No.	Part No.	Description
8.715-508.0	5-3324	VBXL 13 GPM @ 3000PSI with Knob
9.803-899.0	5-3329	VBA35 for Landa LG, LD and LE pumps
9.803-900.0	5-3330	VBA35 for Landa LM and LS pumps
9.802-363.0	5-3029	PA for Landa LM and LS pumps
9.802-361.0	5-3025	VB55 w/ 1/8" Bore for Easy Start

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
- 3/8" MPT outlet
- Stainless steel plunger & seat valve
- 29 oz weight

106020

New Part No.	Part No.	Description	Inlet
8.703-401.0	106020	APR-Brass/ Black	3/8"
9.802-365.0	106022	APR-Brass/ Black	1/2"
8.900-760.0	109139	Seal Repair Kit	3/8"
8.900-761.0	109139X	Seal Repair Kit	1/2"
8.900-762.0	109140	Valve Seat Repair Kit	

Regulators / Unloaders

mecline

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

462320

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

New Part No.	Part No.	Description
8.712-588.0	462320	520 without Knob
8.712-589.0	5-3505	520 with Knob
8.712-590.0	462330	540 without Knob
8.712-591.0	462330K	540 with Knob
8.712-596.0	462340K	560 with Knob
8.704-003.0	109177	Seal Repair Kit
8.704-004.0	109178	Valve Seat Repair Kit

550 Regulator / Unloader

mecline

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

New Part No.	Part No.	Description
8.904-572.0	462335	without Knob
8.904-573.0	462335K	with Knob
8.703-951.0	109060	Seal Repair Kit
8.703-953.0	109062	Valve Seat Repair Kit

550 Regulator / Unloader with Bypass Switch

mecline

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

New Part No.	Part No.	Description
8.712-594.0	462336	without Knob
8.712-595.0	462336K	with Knob
8.703-951.0	109060	Seal Repair Kit
8.703-953.0	109062	Unloader Seat Repair Kit
8.701-311.0	082022	Replacement Micro Switch
8.703-938.0	109041	Knob only (550)

Regulator / Unloader 580

mecline

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

New Part No.	Part No.	Description
8.712-733.0	463350	without Knob
8.712-734.0	463350K	with Knob
8.703-951.0	109060	Seal Repair Kit
8.703-953.0	109062	Valve Seat Repair Kit

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

New Part No.	Part No.	Description
8.712-650.0	462650	Pulsar 3 (Blue) with Knob
8.712-651.0	462651	Pulsar 3 (Blue) without Knob
8.712-653.0	462654	Pulsar 3 (White) with Knob
8.712-731.0	5-3020	Pulsar 280 HP
8.704-462.0	111100	Repair Kit – Pulsar 3
9.802-004.0	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

New Part No.	Part No.	Description
8.712-741.0	463670	without Knob
8.712-741.0	5-3021	with Knob
8.704-488.0	111175	Repair Kit
8.712-735.0	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

New Part No.	Part No.	Description
8.712-739.0	463660	without Knob
8.712-739.0	5-3023	with Knob
9.802-006.0	111150	Repair Kit
8.712-735.0	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

New Part No.	Part No.	Description	Spring
8.712-655.0	5-3012	VB80/280	Blue
8.712-631.0	5-30121	VB80/150	White
8.704-530.0	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
- 3/8" MPT inlet, 1/4" FPT outlet
- Stainless internals
- Forged brass body
- 22.9 oz weight

New Part No.	Part No.	Description
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VB75		
8.712-742.0	463672	Series 44 pumps (EZ)
8.704-488.0	111175	Seal Kit
8.712-735.0	463600	Knob Only

VB135		
8.712-659.0	5-3024	VB 135
8.712-735.0	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

New Part No.	Part No.	Description
9.802-360.0	5-3014	Unloader Red Knob
8.704-499.0	111200X	Repair Kit - Old VB 350
9.800-106.0	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

New Part No.	Part No.	Description
8.715-462.0	5-3015	VB9 with Knob
8.712-745.0	5-3013	VB10 with Knob
8.704-548.0	111336	Repair Kit VB9
8.704-561.0	111400	Repair Kit VB10
8.901-056.0	111401	Seal Kit VB10



VB9

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

New Part No.	Part No.	Description
8.712-754.0	463714	VB 200/150 without Knob
8.712-755.0	463715	VB 200/150 with Knob
8.704-583.0	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

New Part No.	Part No.	Description
8.712-656.0	462656	VB 80/400
9.802-007.0	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

New Part No.	Part No.	Model	GPM	PSI	Pump
"W" Series Unloaders					
8.712-638.0	462636	W1	4.00	1600	W905
8.712-640.0	462639	W1-L	4.00	1600	W99
8.712-643.0	462643	W2	5.56	3000	W997
8.712-644.0	462644	W2-L	5.56	3000	W201
8.702-883.0	103093B	W2/W2L	Rebuild Kit		
8.702-888.0	103098B	W1/W1L	Rebuild Kit		

New Part No.	Part No.	Model	GPM	PSI	Pump
"W" Series Unloaders with Injectors					
8.712-637.0	462635	W1-0	2.1-2.9	1600	W907
8.712-641.0	462640	W1L-1	3.0-4.0	1600	W99
8.712-642.0	462642	W2-1	2.9-4.0	3000	W997
8.712-645.0	462645	W2L-1	2.9-4.0	3000	W201
8.712-647.0	462647	W2L-2	4.2-5.5	3000	WS202
8.702-884.0	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

New Part No.	Part No.	Model	GPM	Outlet
K3				
8.712-603.0	5-30020	K3.0	2.10-2.90	3/8" M
8.715-449.0	5-30021	K3.1	2.90-4.22	3/8" M
8.712-607.0	5-3002	K3.2	4.22-5.55	3/8" M
8.715-450.0	5-30022	K3.3	5.00-6.50	3/8" M
8.712-604.0	462530E	K3.0	2.10-2.90	1/2" M
8.712-606.0	462531E	K3.1	2.90-4.22	1/2" M
8.712-608.0	462532E	K3.2	4.22-5.55	1/2" M
8.712-610.0	462533E	K3.3	5.00-6.50	1/2" M

K5 - 1000-3000 psi

New Part No.	Part No.	Model	GPM	Outlet
K5				
8.712-611.0	5-30011	K5.1	2.90-4.22	3/8" M
8.712-613.0	5-3001	K5.2	4.22-6.60	3/8" M
8.715-448.0	5-30012	K5.3	6.60-10.83	3/8" M
8.712-612.0	462551E	K5.1	2.90-4.22	1/2" M
8.712-614.0	462552E	K5.2	4.22-6.60	1/2" M
8.712-616.0	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



K7 - 0-3000 psi

New Part No.	Part No.	Model	GPM	Outlet
8.712-617.0	5-30030	K7.0	2.11-2.90	3/8" M
8.712-618.0	5-30031	K7.1	2.90-4.22	3/8" M
8.712-619.0	5-3003	K7.2	4.22-6.60	3/8" M
8.712-620.0	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

New Part No.	Part No.	Model	GPM	Outlet
8.712-601.0	462525	ZK1	2.4-10.8	1/2" M



K9 - 0-5800 psi

- 1/2" FPT
- 165°F

New Part No.	Part No.	Model	GPM	Outlet
8.712-621.0	462574	K9	13.2	1/2" M

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

New Part No.	Part No.	Description
8.702-848.0	1-0059	K3 Maintenance Kit
8.702-850.0	1-0061	K3 Rebuild Kit
8.702-847.0	1-0058	K5 Maintenance Kit
8.702-849.0	1-0060	K5 Rebuild Kit

UNLOADERS

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

New Part No.	Part No.	Description
8.712-622.0	462575	HM Regulator/Unloader
8.702-860.0	103072B	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

New Part No.	Part No.	Description
8.712-624.0	462580	Timax Regulator Valve
8.702-844.0	103051B	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

New Part No.	Part No.	Description
8.712-628.0	462590	ST-230
8.701-626.0	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

New Part No.	Part No.	Description
8.712-674.0	462680	ST-280
8.701-655.0	088536	Seat Repair Kit "D"
8.701-654.0	088535	Piston Seal Kit "C"
8.701-653.0	088534	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



New Part No.	Part No.	Description
8.712-681.0	5-3226	ST-261 STD
8.900-156.0	088211X	Seal Kit
8.701-627.0	088209	Repair Kit "B"
8.701-650.0	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)

New Part No.	Part No.	Description
8.712-685.0	5-3225	ST-261/S
8.701-647.0	84-200261527	Switch Seal Kit

ST-261/SI Unloader with Chemical Injector



New Part No.	Part No.	GPM	Model
8.712-682.0	462691	0.0-2.4	ST-261/I-1
8.712-683.0	462692	2.4-3.5	ST-261/I-2
8.712-684.0	462693	3.5-5.5	ST-261/I-3
8.900-159.0	088260X		Injector Repair without Barb
8.701-648.0	088424		Injector Repair with Barb

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)

New Part No.	Part No.	GPM	Model
8.712-686.0	462696	0.0-2.4	ST-261/SI-1
8.904-576.0	462697	2.4-3.5	ST-261/SI-2
8.904-577.0	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)

New Part No.	Part No.	Description
8.712-629.0	84-200260513	Switch Assy Complete
8.701-642.0	84-090000050	Micro Switch Only
8.701-647.0	84-200261527	Seal Kit for Micro Switch

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

New Part No.	Part No.	Model No.	Spring	PSI
8.712-709.0	462934	22910	Silver	800
8.712-710.0	5-31032	22911	Yellow	1400
8.712-711.0	5-31033	22912	Red	2400
8.712-708.0	5-31034	22913	Orange	3000
8.722-137.0	81-12099	Repair Kit		

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

New Part No.	Part No.	Model	GPM	PSI
8.712-705.0	462927	22760APM	8	3000
8.712-706.0	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

New Part No.	Part No.	Model No.	GPM	PSI
8.712-698.0	5-31029	22650	3.0-4.5	3000
8.712-701.0	462913	22654	3.5-4.8	4000
8.712-702.0	5-3104	22655	4.5-5.5	3000
8.712-703.0	5-3105	22656	4.5-6.5	3000
8.722-204.0	81-22666	Seal Kit		

Legacy Universal Unloader



Mounting holes adjust for universal mounting.



- GPM: 6
- PSI: 3500
- Temp: 195°F
- Inlet: 1/2" NPT
- Outlet: 3/8" NPT
- Brass body with stainless steel seat and low-friction, wear-resistant plunger
- Weight: 1.1 lbs

New Part No.	Part No.	Description
9.175-012.0		Universal Unloader 6 GPM @ 3500 PSI

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

New Part No.	Part No.	Description	PSI
Without Knob			
8.712-715.0	463108	Yellow	1500
8.712-718.0	463110	Red	3000
8.712-724.0	463114	Black	4500
With Knob			
8.712-716.0	463108K	Yellow	1500
8.712-719.0	463110K	Red	3000
8.712-725.0	463114K	Black	4500
8.704-567.0	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



New Part No.	Part No.	Description	PSI
8.712-717.0	463109K	Yellow	1500
8.712-720.0	463111K	Red	3000
8.712-714.0	463105K	Blue	3600
8.712-727.0	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

New Part No.	Part No.	Description	PSI
8.712-578.0	462249	AL605Y - Yellow	1450
8.712-579.0	462250	AL605 - Red	2950
8.712-571.0	5-3207	AL606 - Blue	3650
8.715-483.0	5-3208	AL607 - Black	4350
9.802-694.0	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

New Part No.	Part No.	PSI	FPT
8.712-689.0	462739	200-500	1/4"
8.712-690.0	462740	400-1000	1/4"
8.712-691.0	5-3201	800-1500	1/4"
8.712-692.0	462745*	400-1000	Closed Coupled
8.712-693.0	462748*	800-1500	Closed Coupled
8.722-643.0	H34300223	Repair Kit for All	

*Bypass port not threaded

UNLOADERS

Gymatic Unloaders



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

New Part No.	Part No.	Model No.	Description
8.712-565.0	462229	AR20242	1/2" F Inlet no injector
8.712-563.0	462226	AR20242G	3/4" Inlet (GHF) with no injector
8.712-574.0	462244	AR20081	1/2" M Inlet fixed inj #1 (2-3 gal)
8.712-568.0	462235	AR20399	1/2" M Inlet adj inj #1 (2-3 gal)
8.712-569.0	462236	AR20400	1/2" M Inlet adj injector #2
8.720-642.0	AR002611		Repair Kit



- Max PSI: 4000
- Inlet: 1/2" M
- Bypass: Brass
- Max. GPM: 5
- Outlet: 3/8" M NPT

New Part No.	Part No.	AR Model No.
8.712-583.0	462255	AR21669



- Max PSI: 4000
- Inlet: 1/2" F
- Bypass: Brass
- Max. GPM: 5
- Outlet: 3/8" M

New Part No.	Part No.	AR Model No.
8.720-903.0	AR20992	AR20992G

AR Unloader



- Direct Mount
- 165°F
- Dual Gun Valve

New Part No.	Part No.	Description	GPM / PSI
8.715-479.0	5-3202	Zeromatic/83, AR2882	3-10 / 3600
8.718-421.0	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

New Part No.	Part No.	Model No.	Description
8.712-564.0	462228	AR20821	2-5 GPM, AL Bypass, No injector
8.712-573.0	462243	AR20890	2-3 GPM, AL Bypass, Adj injector
8.712-576.0	462246	AR21039	2-3 GPM, Brass Bypass, Adj injector
8.712-575.0	462245	AR21040	3-4 GPM, Brass Bypass, Adj injector
8.720-676.0	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

New Part No.	Part No.	Description
8.933-027.0	95-07101215/B	1/2" x 1/2"
9.802-870.0	95-07101216/B	3/8" x 3/8"

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

New Part No.	Part No.	Description
8.712-631.0	462628	2121 Yellow Spring
8.712-632.0	462629	2140 Green Spring
9.802-007.0	111340	Repair Kit

J.E. Adams Unloader



- 3/8" FPT
- 200°F

5-3009

New Part No.	Part No.	GPM	PSI	Model No.
8.712-627.0	5-3009	8	3000	7300 - Red Spring
8.712-626.0	5-3010	8	2000	7100 - Brown Spring
8.718-490.0	85-7130			Repair Kit

MV-520 Unloader



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

New Part No.	Part No.	GPM	PSI	Model No.
8.712-589.0	5-3505	8.0	2000	MV-520
8.718-460.0	8-34300397			Repair Kit

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

New Part No.	Part No.	Description
8.712-753.0	463705	VS 200/180
8.704-582.0	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

New Part No.	Part No.	Description
8.712-756.0	463720	VS 350
8.704-611.0	111832	Repair Kit

Pressure Regulator



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

New Part No.	Part No.	Description
8.707-248.0	2-30074	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

New Part No.	Part No.	Description
8.712-757.0	463725	VS 500

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

New Part No.	Part No.	Description
8.712-737.0	463655	VS 220 without Knob
8.901-057.0	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

New Part No.	Part No.	Description
8.711-215.0	390103	S - R Valve
8.711-227.0	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

New Part No.	Part No.	Description
8.712-625.0	462585	Relief Valve
8.900-042.0	075127	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

New Part No.	Part No.	Description
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Standard

8.904-192.0	360130	"0", 1-2 GPM
8.904-193.0	360131	"1", 2-3 GPM
9.803-998.0	360132	"2", 3-5 GPM
8.904-194.0	360133	"3", 5-8 GPM
8.900-040.0	075122X	Repair Kit (SS check ball)

"Acid" Injector with Special Inlet Check Valve

8.904-201.0	360140X	"0A", 1-2 GPM
8.904-202.0	360141X	"1A", 2-3 GPM
8.904-203.0	360142X	"2A", 3-5 GPM
8.904-204.0	360143X	"3A", 5-8 GPM
8.900-041.0	075123X	Acid Repair Kit (Ceramic check ball)

INJECTORS

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

New Part No.	Part No.	Description
Amerimax "QC"		
8.904-195.0	360135X	Quick Coupled "0", 1-2 GPM
8.904-196.0	360136X	Quick Coupled "1", 2-3 GPM
8.904-197.0	360137X	Quick Coupled "2", 3-5 GPM
8.904-199.0	360138X	Quick Coupled "3", 5-8 GPM
8.900-040.0	075122X	Repair Kit (SS check ball)
Amerimax Acid "QC"		
8.904-205.0	360145X	Quick Coupled "0A", 1-2 GPM
8.904-206.0	360146X	Quick Coupled "1A", 2-3 GPM
8.904-207.0	360147X	Quick Coupled "2A", 3-5 GPM
8.904-208.0	360148X	Quick Coupled "3A", 5-8 GPM
8.900-041.0	075123X	Acid Repair Kit (Ceramic check ball)

5500 PSI Stainless Steel Chem Injector



3-1208

- Stainless steel construction
- 190°F max temperature
- Complete with hose and filter



4-011186

New Part No.	Part No.	Description	GPM	PSI
9.802-217.0	3-1208	Non-Adjustable, Injector Only	3.0-5.0	5500
9.802-226.0	4-011186	Assembly	3.0-5.0	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

New Part No.	Part No.	Description
8.710-486.0	360163	Hi/Lo Injector with Meter Valve
8.710-487.0	360165	without Chemical Adjust
8.700-290.0	075136	Repair Kit
8.900-044.0	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

New Part No.	Part No.	Flow Rate
8.710-482.0	360155	1.5-4.0 GPM
8.710-483.0	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

New Part No.	Part No.	Description
8.710-485.0	3-1006	ST-62
8.701-648.0	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

New Part No.	Part No.	Description
8.710-777.0	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%
- Inlet 3/8" MPT
- Outlet 3/8" FPT

New Part No.	Part No.	Description
8.710-476.0	360120	1.50 - 2.25, ST-60/0
8.710-477.0	360121	2.25 - 3.35, ST-60/1
8.710-478.0	360122	3.35 - 5.00, ST-60/2
8.701-648.0	088424	Repair Kit "F"

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

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 (mm)	M x M New Part No.	M x F Part No.	F x M New Part No.	Part No.	New Part No.	Part No.
Brass						
1.6	8.710-541.0	360406	8.710-549.0	360416	8.710-559.0	360426
1.8	8.710-535.0	360400	8.710-543.0	360410	8.710-551.0	360420
2.1	8.710-537.0	360401	8.710-545.0	360411	8.710-554.0	360421
2.3	8.710-539.0	360402	8.710-547.0	360412	8.710-557.0	360422
Stainless Steel						
1.6	8.710-542.0	360406S	8.710-550.0	360416S	8.710-560.0	360426S
1.8	8.710-536.0	360400S	8.710-544.0	360410S	8.710-552.0	360420S
2.1	8.710-538.0	360401S	8.710-546.0	360411S	8.710-556.0	360421S
2.3	8.710-540.0	360402S	8.710-548.0	360412S	8.710-558.0	360422S
Brass/Acid-Resistant						
1.6	8.904-230.0	360406A	8.904-238.0	360416A	-	-
1.8	8.904-224.0	360400A	8.904-232.0	360410A	8.904-240.0	360420A
2.1	8.904-226.0	360401A	8.904-234.0	360411A	8.904-242.0	360421A
2.3	8.904-228.0	360402A	8.904-236.0	360412A	8.904-244.0	360422A
Stainless Steel/Acid-Resistant						
1.6	8.904-231.0	360406AS	8.904-239.0	360416AS	8.904-246.0	360426AS
1.8	8.904-225.0	360400AS	8.904-233.0	360410AS	8.904-241.0	360420AS
2.1	8.904-227.0	360401AS	8.904-235.0	360411AS	8.904-243.0	360421AS
2.3	8.904-229.0	360402AS	8.904-237.0	360412AS	8.904-245.0	360422AS

New Part No. Part No. Description

Repair Kits include Check Ball, Spring, Seat & O-ring

8.900-769.0 109220X Standard Kit

8.900-770.0 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

New Part No. Part No. Model No. GPM

Robokim "QC" with Plastic Knob

8.904-209.0 360210X "0" 2.1-2.9

8.904-210.0 360211X "1" 3.0-4.0

8.904-211.0 360212X "2" 4.0-5.5

8.904-212.0 360213X "3" 5.5-10.8

Robokim "QC" with Brass Knob

8.904-462.0 4-011182 "0" 2.1-2.9

8.904-461.0 4-011181 "1" 3.0-4.0

8.904-459.0 4-01118 "2" 4.0-5.5

8.904-220.0 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

New Part No. Part No. Model No. GPM

Robokim with Plastic Meter Knob

8.710-497.0 360200 "0" 2.1-2.9

8.710-498.0 360201 "1" 3.0-4.0

8.710-499.0 360202 "2" 4.0-5.5

8.710-500.0 360203 "3" 5.5-10.8

Robokim with Brass Meter Knob

8.904-213.0 3-12041 "0" 2.1-2.9

8.904-214.0 3-12042 "1" 3.0-4.0

8.904-215.0 3-1204 "2" 4.0-5.5

8.904-216.0 3-12044 "3" 5.5-10.8

Kits

8.704-708.0 1-190000 Repair Kit

8.900-061.0 077010X Acid Kit

Downstream Chem Injectors

Fixed Down Stream Injectors



injector only

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

Complete assembly with hose and filter

New Part No.	Part No.	Description	GPM	PSI
8.709-404.0	3-1201	Non-Adjustable, 190°, Injector only	1.0-2.0	3500
9.802-215.0	3-1202	Non-Adjustable, 190°, Injector only	2.0-3.0	3500
9.802-216.0	3-12021	Non-Adjustable, 190°, Injector only	3.0-4.0	3500
8.904-464.0	4-0111831	Complete Assy with Hose, Filter	1.0-2.0	3500
9.802-224.0	4-011183	Complete Assy with Hose, Filter	2.0-3.0	3500
9.802-225.0	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

New Part No.	Part No.	Description	GPM	PSI
8.709-407.0	3-1203	Chem, Adj, 190°	5.0-8.0	3500
8.709-408.0	3-12031	Chem, Adj, 190°	3.0-5.0	3500
8.709-409.0	3-12032	Chem, Adj, 190°	2.0-3.0	3500



INJECTORS & VALVES

Adjustable Quick-Connect Injector



360242



360240A

- 3500 psi
- 200°F

New Part No.	Part No.	GPM
8.710-502.0	360240	2-3
8.710-503.0	360242	3-5
8.710-504.0	360244	5-8

Acid Injectors

8.904-221.0	360240A	2-3
8.904-222.0	360242A	3-5
8.904-223.0	360244A	5-8
8.701-187.0	080055	Injector Repair Kit
8.900-087.0	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

New Part No.	Part No.	Description	GPM
505 Stainless Steel			
8.710-586.0	360505/1.8	SS Injector 1.8	2.0 - 3.6
8.710-587.0	360505/2.1	SS Injector 2.1	2.7 - 4.9
8.710-588.0	360505/2.3	SS Injector 2.3	3.3 - 6.0
8.704-027.0	109234	Repair Kit	

Brass

8.710-505.0	360245	Brass Injector 1.8	2.0 - 3.6
8.710-506.0	360246	Brass Injector 2.1	2.7 - 4.9
8.710-507.0	360247	Brass Injector 2.3	3.3 - 6.0
8.704-028.0	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

New Part No.	Part No.	Description
8.711-162.0	385127*	Weep Seat
8.711-160.0	385125	Non-Weep
8.711-161.0	385126**	With Switch
8.904-389.0	385128	Hose Barb with Viton Check
8.904-390.0	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

New Part No.	Part No.	Thread	Stem	GPM @ 40 PSI
8.707-305.0	2-3012	3/8"	1/4" - 20	10
9.802-183.0	2-3011	1/2"	1/4" - 20	17
8.707-302.0	2-30110	3/4"	1/4" - 20	31
8.710-045.0	343306	1"	1/4" - 20	47

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

Copper & Plastic Float Balls



343318



343319



343325

New Part No.	Part No.	Length	Material	Thread
8.710-061.0	343326	4" x 5"	Copper	1/4" - 20
8.710-052.0	343317	5"	Copper	1/4" - 20
8.710-053.0	343318	6"	Copper	1/4" - 20
Plastic				
8.710-054.0	343319	4-1/2"	Plastic	1/4" - 20
8.710-055.0	343320	5"	Plastic	1/4" - 20
8.710-057.0	343321	6"	Plastic	1/4" - 20
8.710-058.0	343322	6"	Plastic	5/16" - 18
8.710-059.0	343323	8"	Plastic	1/4" - 20
9.802-061.0	343325	4" x 5"	Plastic	1/4" - 20

Parts for other float valves also available

Stems Only



343310



343310C

New Part No.	Part No.	Length	Material	Thread
9.802-157.0	343310	8"	Brass	1/4" - 20
8.710-047.0	343310C	8"	Brass	1/4" - 20 x 5/16" - 18
8.710-048.0	343311	8"	Brass	5/16" - 18
8.710-051.0	343315	10"	Brass	1/4" - 20
8.710-049.0	343313B	18"	Brass	3/8" - 16
8.740-042.0	343316	19"	Brass	1/2" - 20

Parts for other float valves also available

Float Valves

LANDA®



New Part No.	Part No.	Description
9.802-185.0	2-3014	Valve, 400A, Float
8.707-316.0	2-30140	Connector, Ball Cock

PA Float Valve



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



New Part No.	Part No.	Description
8.710-042.0	2-30121	3/8" Float Valve
8.704-204.0	110250	Repair Kit

Brass Float Valve Assembly

SUTTNER

COMPLETE: Valve, Stem & Float



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

New Part No.	Part No.	Description
8.710-031.0	2-30115	ST-8
8.701-558.0	085331	Repair Kit
8.710-033.0	343012*	MPT Adapter Kit for ST-8

*Double MPT nipple, sealing washer & lock nut

Brass Float, Ball & Stem

AP



- 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

New Part No.	Part No.	Description
8.710-037.0	343050	Valve Complete
8.704-092.0	109502	Repair Kit

Kerick Float Valve



Flow rates for 1/2" Valve:	Flow rates for 3/4" Valve:
20 PSI: 7.7 GPM	30 PSI: 13 GPM
30 PSI: 9.1 GPM	60 PSI: 16.5 GPM
40 PSI: 10.5 GPM	
50 PSI: 11.4 GPM	
60 PSI: 12.5 GPM	

Part No.	Description
8.749-328.0	1/2" Float Valve, .25" orifice
8.749-329.0	3/4" Float Valve, .30" orifice

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

New Part No.	Part No.	Description
8.710-030.0	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)

New Part No.	Part No.	Description
8.710-035.0	343022	1" Hudson Float Valve, 90°
8.710-036.0	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

New Part No.	Part No.	Description
9.802-179.0	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

New Part No.	Part No.	Description
8.709-378.0	310862	1/2"
8.709-379.0	310863	3/4"
8.709-380.0	310864	1"
8.709-381.0	310865	1-1/4"
8.709-382.0	310866	1-1/2"
8.709-383.0	310868	2"

Stainless Steel Check Valves



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

New Part No.	Part No.	Description	GPM Flow Rate
8.709-361.0	310827	1/4" F x F	6.5
8.709-362.0	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

New Part No.	Part No.	Description
8.709-356.0	310814	1/4", M x F
8.709-357.0	310815	1/4", M x M

3000 PSI Stainless Guided Ball & Quad Ring Seat

8.709-358.0	310820	1/4", F x F
8.709-359.0	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

New Part No.	Part No.	Description
8.709-351.0	310804	1/4", F x F
8.709-352.0	310806	3/8", F x F
8.709-353.0	310808	1/2", F x F
8.709-354.0	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

New Part No.	Part No.	Description
8.709-384.0	310872	1/2"
8.709-385.0	310873	3/4"
8.709-386.0	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

New Part No.	Part No.	Description
8.709-366.0	310834	1/4" MPT x 1/4" Barb
8.709-367.0	310835	1/4" Barb x 1/4" MPT
8.709-369.0	310837	1/4" Barb x 1/4" Barb
8.709-370.0	310838	3/8" Barb x 3/8" Barb
8.709-373.0	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

New Part No.	Part No.	Description
8.709-265.0	306534	1/4" F x F
8.709-266.0	306536	3/8" F x F
8.709-268.0	306538	1/2" F x F
8.709-269.0	306540	3/4" F x F

Forged Brass Ball Valves



- 600 psi
- 180°F working temperature
- Forged brass body
- Full flow ports
- Teflon PTFE seals

New Part No.	Part No.	Fittings Size	New Part No.	Part No.	Fittings Size
8.709-249.0	306525	MxF 1/4"	8.709-257.0	306527M	MxM 1/2"
8.709-250.0	306525F	FxF 1/4"	8.709-258.0	306528	MxF 3/4"
8.709-251.0	306525M	MxM 1/4"	8.709-259.0	306528F	FxF 3/4"
8.709-252.0	306526	MxF 3/8"	8.709-260.0	306528M	MxM 3/4"
8.709-253.0	306526F	FxF 3/8"	8.709-261.0	306529	MxF 1"
8.709-254.0	306526M	MxM 3/8"	8.709-262.0	306529F	FxF 1"
8.709-255.0	306527	MxF 1/2"	8.709-263.0	306529M	MxM 1"
8.709-256.0	306527F	FxF 1/2"			

Nickel-Plated Brass Ball Valves



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

New Part No.	Part No.	Size	PSI	New Part No.	Part No.	Size	PSI
8.709-242.0	306504	1/4"	710	8.709-246.0	306516	1"	570
8.709-243.0	306506	3/8"	710	8.709-247.0	306520	1-1/4"	430
8.709-244.0	306508	1/2"	710	8.709-248.0	306524	1-1/2"	430
8.709-245.0	306512	3/4"	570	8.709-264.0	306532	2"	360



Mini Ball Valves



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

New Part No.	Part No.	Fittings	Size
8.709-208.0	306350	M x F	1/8"
8.709-209.0	306350F	F x F	1/8"
8.709-211.0	306352B	M x F	1/4"
8.709-212.0	306352F	F x F	1/4"
8.709-213.0	306352M	M x M	1/4"
8.709-216.0	306354B	M x F	3/8"
8.709-217.0	306354F	F x F	3/8"
8.709-218.0	306354M	M x M	3/8"

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

New Part No.	Part No.	FTP
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"

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

New Part No.	Part No.	FTP	PSI
8.709-274.0	306552	1/4" x 1/4"	7350
8.709-276.0	306553	3/8" x 3/8"	7350
8.709-279.0	306554	1/2" x 1/2"	7350
8.709-282.0	306556	3/4" x 3/4"	5880

Stainless Steel High Pressure Ball Valves - 5800 PSI



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

New Part No.	Part No.	FTP	PSI
8.709-277.0	306553S	3/8" x 3/8"	5880
8.709-280.0	306554S	1/2" x 1/2"	5880
8.709-283.0	306556S	3/4" x 3/4"	5880
8.709-286.0	306558S	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

New Part No.	Part No.	FTP
8.709-287.0	306582	1/4" x 1/4"
8.709-288.0	306583	3/8" x 3/8"
8.709-289.0	306584	1/2" x 1/2"
8.709-290.0	306585	3/4" x 3/4"

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

New Part No.	Part No.	FTP
Two-Way Ball Valves		
8.709-222.0	306390	1/2" x 1/2"
8.709-223.0	306392	3/4" x 3/4"
8.709-224.0	306394	1" x 1"
8.709-225.0	306398	1-1/2" x 1-1/2"
8.709-226.0	306400	2" x 2"

Three-Way Ball Valves

8.709-227.0	306408	1/2" x 1/2" x 1/2"
8.709-228.0	306412	3/4" x 3/4" x 3/4"
8.709-229.0	306416	1" x 1" x 1"
8.709-230.0	306420	1-1/4" x 1-1/4" x 1-1/4"
8.709-231.0	306422	1-1/2" x 1-1/2" x 1-1/2"
8.709-232.0	306424	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

New Part No.	Part No.	FTP
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

New Part No.	Part No.	Description
8.709-214.0	306352P	1/4" Panel Mtg - 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
8.709-221.0	306358	1/2" Inline - Barb x Barb

3-Way Ball Valve



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

New Part No.	Part 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



- **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

New Part No.	Part 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

New Part No.	Part 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

New Part No.	Part No.	Description
8.904-362.0	371120X	Metering Valve / Alum Knob
8.904-361.0	371120P	Metering Valve / Poly Knob
8.740.083.0	077003A	Replacement 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

New Part No.	Part No.	Description
8.710-773.0	371115	"T" 1/4 F x F - Forged
8.710-774.0	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

New Part No.	Part No.	Description
8.710-770.0	371100	MV-100
8.707-322.0	2-30158	MV-150
8.707-341.0	2-3028	MV-250 with Locknut 1/4" FPT x 1/4" FPT

ST-66 Chemical Meter & Selection Valve



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

New Part No.	Part No.	Description
8.710-779.0	371166	ST-66

Chemical Metering Valves



2-3015



2-30151

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

New Part No.	Part No.	Description
8.710-771.0	2-3015	Flow Control
9.802-187.0	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

New Part No.	Part No.	Inlet	"Trip" Temp
8.904-564.0	458000	1/4" MPT	140°F
8.904-565.0	458001	3/8" MPT	140°F
8.723-942.0		3/8" MPT	165°F
8.904-566.0	458005	1/2" MPT	140°F
8.723-943.0	458007	1/2" MPT	170°F

Compact Thermal Relief Valves



- 145°F "Trip" temperature

New Part No.	Part No.	Size	"Trip" Temp
8.712-544.0	458024	1/4" MPT	145°F
9.802-181.0	2-300816	3/8" MPT	145°F
9.802-182.0	2-30082	1/2" MPT	145°F
9.803-670.0	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.

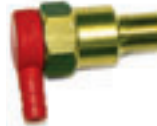


- Panel mount in 11/16" or 3/4" hole
- Machined brass body
- Easy-grip plastic knob
- 3600 psi
- 175°F
- 1/4" MPT inlet/outlet

New Part No.	Part No.	Orifice (mm)
8.711-263.0	400008	0.8
8.904-406.0	400012	1.2
8.904-407.0	400015	1.5
8.904-408.0	400018	1.8
8.904-409.0	400020	2.0

TRV Thermal Relief Valves

Low Profile!



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

New Part No.	Part No.	Inlet
8.712-546.0	458030	1/4"
8.712-547.0	458032	3/8"
8.712-548.0	458034	1/2"

Safety Pressure Relief Valves



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

New Part No.	Part No.	Max PSI	Size
8.722-192.0	81-22550	1200 (Silver Spring)	1/4"
8.722-193.0	81-22560	2400 (Red Spring)	1/4"
8.722-194.0	81-22565	3600 (Orange Spring)	1/4"
9.802-191.0	2-3245	5000 PSI (Blue Spring)	3/8"

Rupture Disks

LANDA®



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

New Part No.	Part No.	Description
9.802-192.0	2-3409	Assembly, 7000 psi
8.707-381.0	2-3410	Assembly, 8500 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

New Part No.	Part No.	Description
8.902-426.0	2-30131	Valve Assy, fits Garden Hose Inlet Swivel
8.707-314.0	2-30132	Valve Assy, fits Water Tanks
8.707-313.0	2-3013	Air Valve Stem Only, 1/8"
8.705-047.0	140073	1/8" Stainless Steel Connect
8.705-048.0	140075	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)

New Part On.	Part No.	Discharge	Outlet
8.904-391.0	385130	20 psi	1/2" FPT
8.711-164.0	2-3010	20 psi	3/4" MGH
8.711-165.0	385133	30 psi	3/4" MGH
8.711-166.0	385134	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

New Part No.	Part No.	Description
9.804-065.0	2-3100543	1/4" MPT x 1/8" FPT
9.802-190.0	2-3100544	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

New Part No.	Part No.	Description
8.709-865.0	339004	Easy Start Valve, 4100 psi
8.709-866.0	339005	Easy Start Valve, 3500 psi
9.802-137.0	140352	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

New Part No.	Part No.	Description
8.709-867.0	339006	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

New Part No.	Part No.	Description
8.903-840.0	339000A	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 ± 1.5%

New Part No.	Part No.	Pressure Range
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2-1/2" Bottom Mount with Bronze Internals

8.710-270.0	348216	0-100 psi
8.710-272.0	348220	0-200 psi
8.710-273.0	348224	0-300 psi
8.710-276.0	348230	0-500 psi
8.710-278.0	348240	0-1000 psi
8.710-280.0	348245	0-2000 psi
8.710-281.0	348250	0-3000 psi
8.710-283.0	348255	0-4000 psi
9.804-017.0	348260	0-5000 psi
8.710-286.0	348262	0-6000 psi
9.804-001.0	348265	0-10,000 psi

2-1/2" Back Mount with Bronze Internals

8.710-246.0	348125	30Hg - 0 Vacuum
8.710-250.0	348140	0-100 psi
8.710-254.0	348150	0-500 psi
8.710-256.0	348152	0-1000 psi
8.710-257.0	348154	0-2000 psi
8.710-258.0	348156	0-3000 psi
8.710-259.0	348158	0-4000 psi
9.803-996.0	348160	0-5000 psi
8.710-262.0	348162	0-6000 psi
9.804-013.0	348165	0-10,000 psi

Mounting Hardware for Back Mount Gauges

8.710-223.0	348001	U-bracket
8.710-228.0	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 ± 3-2-3%

New Part No.	Part No.	Pressure Range
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2" bottom mount

8.710-307.0	348552	0-60 psi
8.710-308.0	348554	0-100 psi
8.710-309.0	348558	0-200 psi
8.710-310.0	348560	0-300 psi

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%

New Part No.	Part No.	Pressure Range
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8.710-291.0	348305	0-100 psi
8.710-293.0	348307	0-200 psi
8.710-294.0	348308	0-300 psi
8.710-295.0	348312	0-1000 psi
8.710-296.0	348313	0-2000 psi
8.710-297.0	348314	0-3000 psi
8.710-299.0	348316	0-5000 psi

Fuel Oil Pressure Gauge



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

New Part No.	Part No.	Pressure Range
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8.700-738.0	079020	0 - 200 psi
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AMP Meters



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

New Part No.	Part No.	Range
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8.701-686.0	091321	-15 to +15 Amps
8.701-687.0	091323	-20 to +20 Amps
8.701-688.0	091344	-60 to +60 Amps

*Requires 2-1/8" 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

New Part No.	Part No.	Description
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8.749-183.0		Hour Meter, EL 5-80 VAC/DC - 50/60 hz
8.749-316.0		Hour Meter, EL 24-277 AC/DC 50/60 Hz
8.904-540.0		Tachometer/Hour Meter, 12VDC

Hour Meter



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

4-050822
4-050823

New Part No.	Part No.	Description
9.802-283.0	4-050822	110V/230V
9.802-284.0	4-050823	12V
8.710-470.0	4-0508	VDO, 12VDC, Round, old style
8.904-540.0	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

New Part No.	Part No.	Description
8.712-159.0	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)

New Part No.	Part No.	Description
8.712-488.0	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

New Part No.	Part No.	Description
8.712-489.0	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.



4-0601

- 500°F thermometer
- 2.5 inch pressure gauge
- 3/8" QC socket and plug
- **Test Set 5000** - 5000 psi pressure gauge for systems up to 2500 psi
- **Test Set 10000** - 10000 psi pressure gauge for systems up to 5000 psi

New Part No.	Part No.	Description
8.904-559.0	4-0601	Test Set 5000 (0-2500 psi systems)
8.904-558.0	449040	Test Set 10000 (0-5000 psi systems)

Pressure Test Set



Test pressure with quick coupled connection at outlet of unloader or coil.



4-0600

4-0607

- 5000 psi
- 3/8" QC socket and plug

New Part No.	Part No.	Description
8.712-207.0	4-0600	Pressure Gauge Assy (0-5000 psi, 2-1/2" gauge)
8.712-208.0	4-0607	Compact Pressure Gauge Assy (0-5000 psi, 1-3/4" gauge)

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

New Part No.	Part No.	GPH	Metal	Metering Valve
8.710-097.0	343722	0.6 – 5	Brass	no
8.710-098.0	343723	0.6 – 5	Brass	yes
8.710-101.0	343726	2 – 10	Brass	no
8.710-102.0	343727	2 – 10	Brass	yes
8.710-099.0	343724	0.6 – 5	SS	no
8.710-100.0	343725	0.6 – 5	SS	yes
8.710-104.0	343728	2 – 10	SS	no
8.710-105.0	343729	2 – 10	SS	yes

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