



Mini Ball Valves

- 1/4 turn handle
- 450 PSI maximum
- 356°F. max @ 142 PSI
- 212°F. max @ 355 PSI
- Nylon handle



Part	Product
3934	1/4" FPT
3932	1/4" FPT x 1/4" MPT
3946	3/8" FPT
3933	3/8" FPT x 3/8" MPT

Poly Chemical Resistant Valves

- Precision molded in glass reinforced polypropylene for strength and chemical resistance
- Teflon® seats for smooth operation and proper sealing
- EPDM o-rings to handle most fertilizers and chemicals
- 240 PSI maximum operating pressure

Part	Product
6075	3/8" FPT
6095	1/2" FPT
6126	3/4" FPT
6129	1" FPT
6134	1 1/4" FPT
6138	1 1/2" FPT



Stainless Steel Ball Valves

- 1000 PSI maximum
- Teflon® seals and seat
- Full port
- 450°F. maximum



Part	Product
6104	1/4" FPT
6114	3/8" FPT
6120	1/2" FPT
6121	3/4" FPT

- 2000 PSI maximum
- 316 stainless steel
- Full port
- 90°F. maximum

Part	Product
4064	1/4" FPT
4065	3/8" FPT
4066	1/2" FPT
4067	3/4" FPT



- 6000 PSI maximum
- 304 stainless steel
- Teflon® seals
- 176°F. maximum

Part	Product
6366	1/4" FPT
6367	3/8" FPT
6368	1/2" FPT



Heavy Duty Ball Valves

- Nickel plated brass
- 3050 PSI maximum
- 176°F. maximum
- Metal handle
- Teflon® seals



Part	Product
6292	3/8" FPT
6293	1/2" FPT



High Pressure Ball Valves

- 7000 PSI maximum
- Zinc plated steel
- 176° maximum



Part	Product
2517	1/4" FPT
4997	3/8" FPT full port
4998	1/2" FPT full port
3836	Replacement handle

Unloaders Made Ready (UMR)

Take the guess work out of replacing a worn unloader.



- Unloader
- Inlet filter
- QC discharge
- Thermal relief
- Push on hose barbs
- Roll of teflon tape
- Bypass hose
- Installation sheet



Components not connected

Part	Unloader	GPM	PSI	Inlet	Outlet
4900	VR54	8.0	2900	3/8F	1/4F
5553	VRT3-160	7.8	2320	3/8F	1/4F
5402	VRT3-160	7.8	2320	1/2F	3/8F
4254	VR54	8.0	2900	1/2F	3/8F
4927	VR56	8.0	3625	1/2F	3/8F
5233	VRT3-250	7.8	3650	1/2F	3/8F
4642	VRT3-310	7.8	4500	1/2F	3/8F
6174	VRT3-310EZ	7.8	4500	1/2F	3/8F



Unloader Blocks

Attach unloader to pressure washer frame to lessen vibration

Part	Product
6317	3/8" FPT brass
6318	1/2" FPT brass
6784	3/8" FPT steel
6785	1/2" FPT steel



VR Pressure Actuated

- 8 GPM maximum
- 194°F. maximum
- 2900 PSI maximum
- 3/8" MPT inlet/outlet
- 3/8" FPT bypass
- 1/4" FPT gauge port

Part	Model	PSI
6961	VR54	2900
6706	VR56	3625



WARNING: These products can expose you to lead, nickel, chromium and vinyl chloride which is known to the state of California to cause cancer and birth defects and other reproductive harm. For more information go to www.P65warnings.ca.gov

UNLOADERS



VRT3 Pressure



- 7.8 GPM maximum
- 194°F. maximum
- Dual 3/8" FPT inlet
- 3/8" fpt OUTLET
- Dual 3/8" FPT bypass

Part	Model	Spring	PSI
5483	160	Yellow	2320
5056	250	Blue	3650
5057	310	Black	4500
4518	310EZ	Black	4500

VRT3 W/Injector



2.1mm injector, EZ start, and thermal relief valve

Part	Model	Spring	PSI
5058	310EZ	Black	4500

VRT3 w/Pressure Switch



Part	Model	Spring	PSI
5882	250	Blue	3650
6818	310	Black	4500
5859	Pressure switch		

VRT3 Kits

Part	Product
5126	VRT3 160& 250
5137	VRT3-310



VRT100 High Flow



- 26 GPM maximum
- 1/2" inlet, outlet, bypass
- Multi gun usage

Single Bypass

Part	Model	Spring	PSI
6330	190	Yellow	2465
6331	330	Blue	4800

Dual Bypass

Part	Model	Spring	PSI
6895	190D	Yellow	2465
6807	330D	Blue	4800

VRS3-250 Pressure Actuated



- 8 GPM maximum
- 194°F. maximum
- 3630 PSI maximum
- 3/8" FPT inlet/outlet
- 3/8" FPT bypass

Part	Model	PSI
6983	VRS3-250	3600

VHP39 Pressure Actuated



- 10.5 GPM maximum
- 190°F. maximum
- 5650 PSI maximum
- Dual 3/8" FPT inlet
- 3/8" FPT outlet
- Dual 3/8" FPT bypass

Part	Model	Spring
6378	VHP39	Black
6817	VHPEZ	Black

AR2907 Zeromatic 83

Multi gun operation



- 8 GPM maximum
- 190°F. maximum
- 3600 PSI maximum
- 1/2" FPT inlet
- 3/8" MPT outlet
- Dual 3/8" FPT bypass

Part	Model
6646	AR2907
6649	1830 kit



ST261 Pressure

Can be panel mounted



- 8 GPM maximum
- 176°F. maximum
- 3625 PSI maximum
- 3/8" FPT inlet/outlet
- 1/4" FPT bypass

Part	Model
1396	ST-261
4655	Valve kit 200261526
5661	Kit "A" 200261528
3470	Kit "F" 200060720
5374	Panel mount nut



ST261T Tamper Proof



Ideal for rental machines!
Glue cover to permanently set pressure

Part
6824



ST261 w/Injector

Built-in downstream injector



Part	Injector
1452	1.8mm
1453	2.1mm
1397	2.4mm
3470	Kit



ST261S w/Switch

Built in pressure switch with 125 VAC 5AMP 250VAC 3A micro switch

- 8 GPM maximum
- 176°F. maximum
- 3625 PSI maximum
- 3/8" FPT inlet/outlet
- 1/4" FPT bypass

Part	Injector
2379	ST261S
3847	Switch



ST280 Multi Gun Operation

- 8 GPM maximum
- 176°F. maximum
- 4060 PSI maximum
- 500 PSI minimum
- 3/8" FPT in/outlet
- 1/4" FPT bypass

Part	Model
3710	ST-280
5662	Kit "C"
5663	Kit "D"



ST291 Multi Gun Operation

- 8 GPM maximum
- 176°F. maximum
- 5070 PSI maximum
- 850 PSI minimum
- 3/8" FPT in/out
- 1/2" FPT bypass

Part	Model
6647	ST-291



ST291S Multi Gun Operation

Built in pressure switch with 125 VAC 5AMP 250VAC 3A micro switch

- 8 GPM maximum
- 176°F. maximum
- 5070 PSI maximum
- 850 PSI minimum
- 3/8" FPT in/out
- 1/2" FPT bypass



Part	Model
6648	ST-291 w/switch

GIANT 22760A Pressure

- 8 GPM maximum
- 160°F. maximum
- 3000 PSI maximum
- Dual 3/8" FPT inlet
- 3/8" FPT outlet
- Dual 1/4" FPT bypass

Part	Model
2168	22760A
3503	Kit



Pulsar 4 Pressure



- Knob with blue spring
- 10.5 GPM maximum
- 195°F. maximum
- 4500 PSI maximum
- Dual 3/8" FPT inlet
- 3/8" FPT outlet
- Dual 3/8" FPT bypass

Part	Model
6437	Pulsar KHP
6438	Pulsar 4 EZ
6440	With switch
6439	Repair kit



Pulsar 4 w/switch

- Facilitates water in discharge in pressure during start up
- Reduces energy required for start up
- Features a 16A, 250V microswitch
- Mechanical control of the switch for simple and reliable control

Part	Model
6440	With switch
6439	Repair kit



YVB9KMS2 w/Switch

- Easy start-up due to low re-arm pressure (27% of operating pressure)
- Waterproof, 5 amp pressure switch, UL listed.

- 8 GPM maximum
- 195°F. maximum
- 3650 PSI maximum
- 3/8" BSP-F in/out/bypass
- 1/4" FPT gauge port

Part
5406



VB3K

- 6.5 GPM maximum
- 195°F. maximum
- 3650 PSI maximum
- 3/8" FPT bypass

- GP TT series 51 & 60 pumps

Part	Model	Inlet	Outlet
4107	YVB3KA	3/8" MPT	3/8" MPT
6017	YVB3KTT	1/4" MPT	3/8" MPT



VB7K

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

Part
3594



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UNLOADERS



VB350S/YU5075KS

- Premium pressure compensated unloader for low spike pressures.
- Stainless steel internal components for maximum durability.



- 10 GPM maximum
- 195°F. maximum
- 5650 PSI maximum
- 3/8" BSP-M inlet
- 3/8" BSP-F outlet
- 1/2" BSP-F bypass

Part	Model
4906	



ZKHM regulating

- Ideal for use in systems which incorporate a gasoline engine.
- Eliminates back pressure when pulling a manual start engine.
- Must be operated in upright position



- 10.8 GPM maximum
- 195°F. maximum
- 3000 PSI maximum
- 3/8"-19BSP-F inlet
- 1/4"-19 BSP-F outlet
- 3/8"-19 BSP-M outlet
- Dual 3/8"-19 BSP-F bypass

Part	Model
2169	ZKHM
4080	Kit 72 repair



High Flow Pressure

- 21 GPM maximum
- 200°F. maximum
- Dual 1/2" FPT inlet
- 1/2" FPT out/bypass



Part	Model	PSI	Spring
6966	YUW21235	2200	White
6965	YUB21405	4050	Blue

Dual bypass

- 21 GPM maximum
- 200°F. maximum
- Dual 1/2" FPT inlet
- 1/2" FPT outlet
- Dual 1/2" FPT bypass



Part	Model	PSI	Spring
6959	YU21235	2600	Yellow
6548	YU21405	4500	Green
4910	21405 kit		

303 Stainless steel

- Dual 1/2" FPT inlet
- 1/2" FPT outlet
- 1/2" FPT bypass



Part	Model	PSI	Spring
4457	YU2158	5800	Black



YU5221



- 53 GPM maximum
- 200°F. maximum
- 2450 PSI maximum
- 1" FPT in/out/bypass

Part	Model
4458	YU5221
4456	Repair kit

Multi-gun Pressure Actuated

- Suitable for use with multiple guns at same time.
- Dynamic seals made up of o-rings and teflon runner
- Optimized internal passages guarantee reduced pressure loss
- No risk of fittings being ejected in case of overpressure because o-rings are positioned upstream to the threads
- 1/4" fitting for pressure gauge



- 21 GPM maximum
- 200°F. maximum
- 1/2" FPT inlet, outlet, bypass

Part	Model	PSI
6579	YVB4021HT	4050
6571	YVB5121B	5100



Multi-Gun High Flow

These unloaders are capable of handling one or more shut-off guns and should be run with no bypass if the full flow from the pump is going through the unloader.



- 160°F. maximum
- 1/2" FPT inlet, outlet, bypass
- #4464 3/4" FPT in/out/bypass

Part	Model	Spring	GPM	PSI
1786	2911A	Yellow	13	1400
1630	22912A	Red	13	2400
1631	22913A	Orange	13	3500
4464	22971C	Yellow	35.7	1740
3527	Kit			
3740	Kit B			



2SF Unloaders

- 6 GPM maximum
- 160°F. maximum
- 2000 PSI maximum
- 3/8" MPT in/out



Part	Model
2799	7500 2SF
5986	7500XS 2SFX
4482	Kit for 7500



4SF Unloader

- 6 GPM maximum
- 160°F. maximum
- 3000 PSI maximum
- 3/8" MPT in/out
- 3/8" FPT bypass



Part	Model
2800	7600S
4483	Kit





7535 Unloaders

- 21 GPM maximum
- 160°F. maximum
- 4000 PSI maximum
- 1/2" FPT in/out/bypass



Part	Model
2802	7542

Pressure Regulator

Main function is to set and maintain constant system pressure while also acting as a primary pressure relief device. DOES NOT UNLOAD

- 7.8 GPM maximum
- 160°F. maximum
- 3575 PSI maximum
- 3/8" FPT in/out/bypass



Part	Model
2804	7082



Reduced Pressure

- 8.0 GPM maximum
- 195°F. maximum
- 3650 PSI maximum
- 3/8" FPT inlet/outlet



Part	Model
4213	YU3678/VB10

Bolt-on unloaders

Bolt-on unloaders have an internal bypass system. Eliminates bypass hose and fittings. May have a built-in injector



66DX pump bolt-on

- 5 GPM maximum
- 160°F. maximum
- 4000 PSI maximum
- 1/2" FPT inlet
- 3/8" MPT outlet



Part	Model
1936	7860



Minimatic 4/B

- RC, XT & XM pumps
- 160°F. maximum
- 2600 PSI maximum
- 1/2" FPT inlet
- 3/8" MPT outlet



Part	Model	GPM
6090	AR21039 w/injector	2-3
6091	AR21040 w/injector	3-4
6445	AR20821 no injector	3-5
6611	Kit for 7500 bolt/o-ring	
6061	Kit 2858	



Gymatic 3/B

- RR, XM & RK pumps
- 3-5.5 GPM maximum
- 3650 PSI maximum
- 165°F. maximum
- 3/4" FGH inlet
- 3/8" MPT outlet



Part	Model
5547	AR20242G w/bolts
3430	2611 o-ring kit
6214	Kit 2119 bolt & washer



Gymatic VR35/B

- RR, RK & XM pumps
- 5 GPM maximum
- 4000 PSI maximum
- 165°F. maximum
- 1/2" MPT inlet
- 3/8" MPT outlet



Part	Model
6092	AR21669 w/ bolts
6097	AR22206 w/fixed injector
5276	Kit 2121 bolt & washer



Unitrol pressure control

ZKW1

For GP pumps T9051, TT901, TT9061, TT9071, T9051, TS1021

- Built-in injector
- 3-4 GPM max
- 1600 PSI max
- 1/2-14 BSP-F inlet
- 3/8-19 BSP-M outlet
- 1/4" chemical barb



Part
3343



ZKW1.1L

For GP pumps T711, T911, T991, T9951, T9961

- Built-in injector
- 3-4 GPM max
- 1600 PSI max
- 1/2-14 BSP-F inlet
- 3/8-19 BSP-M outlet
- 1/4" chemical barb



Part
3940

Trapped Pressure Control

ZKW2.1

For GP pumps TT9351, TT9441, TT9971, all EZ pumps



- 3-4.5 GPM
- 3000 PSI maximum
- 200°F. maximum
- 1/2-14 BSPP-F inlet
- 3/8-19 BSPP-M outlet
- 5/16 chemical barb



Part	Model
3344	W2.1 w/ injector
2830	W2.1SC



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UNLOADERS



Trapped Pressure Control

ZKW2.1L

For GP pumps TS1011, TS1331, TS1551, TS1711, TS2011



- 3-4.5 GPM
- 3000 PSI maximum
- 200°F. maximum
- 1/2-14 BSPP-F inlet
- 3/8-19 BSPP-M outlet
- 5/16 chemical barb

Part	Model
3937	W2.1L w/ injector

ZK Repair Kits

Part	Model
1743	Kit 93
3569	Kit 94



YVB75 KDM

- Direct mount built in bypass
- Adjustable pressure
- GP EZ, Series 47, 60 and 63 series pumps



- 8.0 GPM
- 3650 PSI maximum
- 195°F. maximum
- 1/2" BSP-F inlet
- 3/8" BSP-M outlet

Part	Model
6546	VB75KDM
6552	VB75KDM w/inj
1332	Bayonet bolt kit



YVB135KDM

- Direct mount built in bypass
- Adjustable pressure
- GP TT/TP & series 51 pumps



- 6.5 GPM maximum
- 2600 PSI maximum
- 195°F. maximum
- 3/8" BSP-F inlet
- 1/4" BSP-M outlet

Part	Model
3340	YVB135KDM

Balanced Relief Valves



- Secondary safety device
- Does not replace unloader
- 195°F. maximum



Part	Model	GPM	PSI	Inlet	Out
3331	YBRV624	6.3	2415	3/8BSP	3/8BSP
4416	YBRV5325	53.0	2900	3/4BSP	3/8BSP



Flow Actuated unloaders



Flow actuated

- 3/8" FPT inlet
- 3/8" MPT outlet
- 195°F. maximum



Part	Model	GPM	PSI
1481	22648	1.5-4.0	3000
5739	22650	3.0-4.5	3000
1482	22655	3.0-5.5	3000
1588	22654A	3.5-4.8	4000
3577	22666	Kit	
3576	22695A	Kit	



ZK1 Flow Sensitive

- 10.8 GPM
- 3600 PSI maximum
- 165°F. maximum



- 3/8" BSP-F inlet
- 1/2" BSP-F outlet
- 1/2" BSP-M bypass

Part	Model
6703	ZK1



K-series Flow actuated

- 3/8" BSP-F inlet
- 3/8" BSP-M outlet
- 3/4" BSP-M bypass
- 195°F. maximum

K-3 series



Part	Model	GPM	PSI
1593	K3.0	2.1-3.0	1450
2347	K3.0E	2.1-3.0	1450
1594	K3.1	3.0-4.2	1450
1595	K3.2	4.5-5.5	1450
3146	Kit 59	repair	

K-5 series



Part	Model	GPM	PSI
1597	K5.0	2.1-3.0	3000
1598	K5.1	3.0-4.2	3000
1494	K5.1E	3.0-4.2	3000
1599	K5.2	4.2-6.6	3000
1725	K5.2E	4.2-6.6	3000
1751	K5.3	6.6-10	3000
3132	Kit 58	repair	
2404	Bypass	plate	

K-7 series



Part	Model	GPM	PSI
1220	K7.0	2.1-3.0	3500
1393	K7.1	3.0-4.2	3500
1394	K7.2	4.2-6.6	3500
2301	K7.2	4.2-6.6	3500
	w/ #1 orifice		
1395	K7.3	6.6-10	3500
1694	Kit 70	repair	



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