





WHERE THE DUST SETTLES
WATER TRUCKS • TANKS • PARTS



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UNITEDBUILT EQUIPMENT QUALITY DESIGN & CRAFTSMANSHIP



QUALITY SINCE 1947

United Truck & Equipment, Inc. is a manufacturer and leading nationwide supplier of UnitedBuilt water truck spray systems for a wide range of applications.

UnitedBuilt tanks are constructed from the ground up, starting with A36 sheet steel with a minimum thickness of ³/₁₆". Tank shells are rolled either to a modified ellipse or a modified trapezoid with a radius bottom, yielding the desired volume distribution and rearview visibility. All shell seams are welded 100% on both inside and outside of the tank.



2X BOTTOM THICKNESS FULL LENGTH BELLY PLATE

Tanks of 3000 gallons and above are reinforced with a full-length belly plate, effectively doubling the bottom thickness of the shell. Bottom runner skids are fully welded to the bottom of the tank for a precise interface to the chassis frame. Between the truck frame and tank runner, a vulcanized rubber wear pad diffuses stress and surge even further.



ANTI SURGE BAFFLING

Our tank design distributes the forces of hauled water evenly throughout the vessel. Bulkheads and baffles are curved and fitted into the shell of the tank, which match or exceed the shell thickness.

All contact between heads and shell is welded 100% on both sides. To suppress fluid surge during stops and starts, depending on capacity and dimension, we baffle our tanks with ported and curved lateral steel sheets. Internally, our tanks contain no unbaffled chamber exceeding 1700 gallons.



EXTERIOR & INTERIOR PROTECTION

After the tank construction is complete, our coating department stands ready to apply treatments according to customer needs. Exteriors can be powder-coated in our industrial oven, either with our stock fleet white or customized color. Internally, to protect against rust, we can line our tank interiors with high-grade epoxy, further ensuring multi-year service.



5 YEAR LIMITED TANK CONSTRUCTION WARRANTY

Our specifications do not merely meet industry standards; they exceed them. Over years of quality manufacturing, our specifications have become the standard, offering not only safety by design but durability so stout that United Truck & Equipment can confidently offer a limited five-year tank construction warranty.



UNITEDBUILT EQUIPMENTQUALITY DESIGN & CRAFTSMANSHIP



MAXIMUM OUTPUT WITH MINIMUM WATER HAMMER

Our fabrication department builds water truck spray systems that work in functional concert with tank and truck. All pressurized lines are at least schedule 40 black pipe and professionally plumbed for unrestricted water flow, using air-actuated water valves and spray heads of our manufacture, specifically designed to maximize output and minimize water hammer throughout the system.

CUSTOM TAILORED WATER TRUCK SYSTEM

Informed by over 30 years of experience with a myriad of chassis specifications, our shop installs the optimum interface between spray system and chassis - most often a power-take-off, customized to the combination of transmission and pump, spinning the impeller to the desired efficiency for both volume and pressure.

As an alternative to the strict PTO system, we also have extensive experience installing hydraulically driven spray applications. Mechanical and lighting specs are tailored to the individual truck, and we can adjust the frame length or even relocate chassis components to accommodate both the tank and plumbing.







ON YOUR TRUCK OR OURS

We can supply the chassis, or tailor a water truck spray system to yours. With transmission and axle information, we can build an uninstalled tank spray system in kit form, customized to those specifications.



UNITEDBUILT WATER TRUCK PARTS

Our warehouse is stocked with the industry's most reliable water truck parts to keep your water trucks operating efficiently. We pride ourselves on maximizing our service level for repair and replacement parts for water trucks, maintaining a 96% fill rate on stock parts orders.

UNITEDBUILT WATER TRUCKS

United Truck & Equipment, Inc. manufactures the most functional, precisely tailored, and complete water truck spray system possible for your application. UnitedBuilt offers top quality tanks, parts, and service at a great value.



WARRANTY & FEATURES

5 YEAR LIMITED TANK CONSTRUCTION WARRANTY

Customer satisfaction and quality products are our main focus at United Truck & Equipment. We build our tanks with longevity in mind using only the best materials, such as ASTM A36 steel, 100% full welds inside and out (no skip welding), and belly plates on all 3000+ gallon tanks.

We take great pride manufacturing superior water tanks and proudly backing that up with our standard five-year tank warranty. From the date of your purchase, we cover against defective workmanship or defective materials for a full five years.



We want your tank to outlive your truck!

HEAVY-DUTY BELLY PLATE

As part of our superior craftsmanship, all of our 3000+ gallon tanks come standard with a full belly plate. These plates increase the longevity of the tank by reinforcing the area most affected by stress and vibration. This additional detail is critical for preventing premature cracking and deterioration.

Standard belly plates are constructed with $\frac{3}{16}$ " ASTM A36 steel, running the entire length of the tank and measure 60" across. The belly plates, like all elements of our tanks, are 100% full welds, no skip welding.







EXTERIOR POWDER COATING

In our continuing pursuit to offer the highest quality product and achieve the longest lasting and most appealing finish, we have installed a state of the art powder coating facility.

Powder coating is an eco-friendly method of painting that requires no solvents and generates little or no hazardous material waste. The coating is applied as a dry powder and then cured to a solid, durable surface using heat.

The result is an attractive finish that is harder and more durable than conventional paint. Powder coating can be used to create a wide range of finishes and colors.



INTERIOR EPOXY COATING

Our tank interior liner is a solid, corrosion-resistant epoxy lining. Tanks are sandblasted to white metal and cleaned before the epoxy application.

Epoxy coating significantly enhances the durability of the tank interior by protecting it from rust and corrosion.



VISION TANK MAXIMIZE OPERATOR VISIBILITY

STANDARD FEATURES

Shape: Modified trapezoid that improves operator visibility with flat sides for low profile and a rounded bottom.

Construction: Full penetration welds, all seams welded 100% on both sides.

Belly Plate: Full-length $^3/_{16}$ " ASTM A36 steel belly plate along the bottom of 3000+ gallon tanks.

Shell: Minimum thickness of ³/₁₆" ASTM A36 steel. Rolled to a modified trapezoid.

Heads: Minimum thickness of $\frac{1}{4}$ " ASTM A36 steel. Curved and fitted with 4" - 6" offset welded 100% inside and out.

Baffle(s): Minimum thickness of $\frac{3}{16}$ " ASTM A36 steel. Curved and fitted with 4"-6" offset. Built with 20" crawl hole and 6" flow holes on top, sides, and bottom.

Sacrificial Anodes: Two sacrificial anodes installed per baffle to help prevent corrosion.

Mounting Skids: Heavy-duty U-shaped skids with full continuous weld to the tank.

Fenders: Welded to the tank and constructed from 12 gauge steel.

Ladder: Constructed of 3/4" pipe with non-slip rungs.

Manway: Hinged non-sealing 25" lid with 10" anti-slosh ring.

Lights & Brackets: Standard DOT sealed LED marker, stop, clearance & beam lights. **Sight Gauges**: Clear, flexible tubing mounted on the front and rear of the tank.



VISION TANK DIMENSIONS & CAPACITIES									
MODEL	HEIGHT	WIDTH	GALLONS PER		STANDAI	RD CAPACI	TIES IN G	ALLONS	
MODEL	пеіопі	WIDIN	FOOT	10′	15′	17′	18′	19′	20′
6D	60"	96"	243	2300	3500	4000	4250	4500	4700
6V	66"	102"	285	2700	4000	4700	5000	5200	5500
6G	72"	102″	310	2900	4500	5000	5400	<i>57</i> 00	6000

CONTACT UNITEDBUILT TANK SALES FOR OPTIONS • 800.600.TANK(8265)

*Nominal capacities. Actual operational capacities will vary.



FULL PENTRATION WELDS INSIDE & OUT 100%



HEAVY-DUTY 3/16" STEEL BELLY PLATE 3000+ GALLONS TANKS



HEAVY-DUTY TANK RUNNERS FULL-LENGTH OF TANK



CURVED & FITTED BAFFLES
FLOW HOLES ALL SIDES
Shown with optional Epoxy Coating



SACRIFICIAL ANODES
PROTECTIVE CORROSION BARRIER



SHELLS ROLLED WITH MINIMUM THICKNESS 3/16" A36 SHEET STEEL



CONVENTIONAL TANK CLASSIC SHAPE & DESIGN

STANDARD FEATURES

Shape: Modified ellipse with flat sides for low profile and a rounded bottom. **Construction**: Full penetration welds, all seams welded 100% on both sides.

Belly Plate: Full-length 3/16'' ASTM A36 steel belly plate along the bottom of 3000+ gallon tanks.

Shell: Minimum thickness of 3/16" ASTM A36 steel. Rolled to a modified ellipse.

Heads: Minimum thickness of $\frac{1}{4}$ " ASTM A36 steel. Curved and fitted with $\frac{4}{4}$ " - 6" offset welded 100% inside and out.

Baffle(s): Minimum thickness of 3/16'' ASTM A36 steel. Curved and fitted with 4''- 6'' offset. Built with 20" crawl hole and 6'' flow holes on top, sides, and bottom.

Sacrificial Anodes: Two sacrificial anodes installed per baffle to help prevent corrosion.

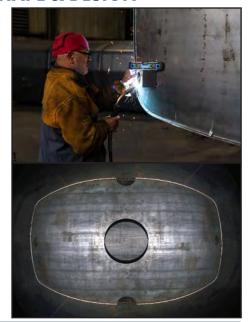
Mounting Skids: Heavy-duty U-shaped skids with full continuous weld to the tank.

Fenders: Welded to the tank and constructed from 12 gauge steel.

Ladder: Constructed of 3/4" pipe with non-slip rungs.

Manway: Hinged non-sealing 25" lid with 10" anti-slosh ring.

Lights & Brackets: Standard DOT sealed LED marker, stop, clearance & beam lights. **Sight Gauges**: Clear, flexible tubing mounted on the front and rear of the tank.



	CONVENTIONAL TANK DIMENSIONS & CAPACITIES								
MODEL	ПЕГСИТ	WIDTH	GALLONS	STANDARD CAPACITIES IN GALLONS					
MODEL	HEIGHT	WIDIR	PER FOOT	10′	15′	17′	18′	19′	20′
SK	41.5"	96"	170	1600	2450	2800	3000	3150	3300
SU	40"	100"	170	1600	2450	2800	3000	3150	3300
SH	51"	80"	178	1700	2600	2950	3100	3300	3450
SX	45"	102"	195	1850	2850	3200	3400	3600	3800
SE	53"	88"	204	1950	2950	3350	3550	3750	4000
SC	53"	96"	227	2150	3300	3750	3950	4200	4450
SJ	57"	96"	242	2300	3500	4000	4250	4500	4700
SD	60″	96"	257	2450	3750	4250	4500	4750	5000
SA	60″	98"	276	2600	4000	4550	4850	5100	5400
SR	64"	100"	290	2750	4200	4800	5100	5350	5650
SV	66"	102"	310	2950	4500	5100	5400	5750	6050
SG ≤ 16′	72"	100"	325	3000	4700	-	-	-	-
M3 ≤ 17′	72"	100"	325	-	-	5350	5650	6000	6300
M4	78"	102"	385	3850	5800	6550	6950	7300	7700
M5	76"	120"	425	4250	6400	7200	<i>7</i> 650	8100	8500
M6	96"	144"	590	5900	8850	10000	10600	11200	11800
M7	96"	168″	691	6900	10350	11750	12450	13150	13800

CONTACT UNITEDBUILT TANK SALES FOR OPTIONS • 800.600.TANK(8265)





FACTORY INSTALLED SINGLE AXLE

ON YOUR TRUCK OR OURS • CALL FOR MODELS & AVAILABILITY



WATER TRUCK SYSTEM 5 SPRAY VALVES SINGLE AXLE CHASSIS STANDARD CAPACITY: 1800 - 2400 Gallons

UnitedBuilt® Water Truck Tank

5 Year Limited Tank Construction Warranty

Five independently air operated UnitedBuilt AV1100 valves. Standard Setup: Two valves with adjustable fan nozzles BC2399 at the rear of the tank. Two valves with adjustable fan nozzles BC2399 at the front of the truck. One midship valve with side spray nozzle BC2179. Each valve is independently air operated from the cab control console.

PLUMBING: All plumbing is schedule 40 steel pipe with groove style flexible fittings throughout (no threaded fittings or hose plumbing). WATER PUMP: Heavy-duty 4x3 centrifugal cast iron pump 750GPM@65PSI, with ceramic mechanical seal (1000GPM@180PSI available). PTO: Chelsea heavy-duty two gear air or hot shift PTO with 1310 series balanced tube drive

line (HOT shift PTO available for automatic transmission). JET VALVE: Standard 1-1/2" ball valve on the tank passenger side of the manifold. SIGHT GAUGE: All-season clear %" flexible rubber tubing at front and rear of tank with brass hardware connections. LIGHTS: LED sealed beam lights with wiring encased in rubber harness. POWDER COAT: Exterior sandblasted and powder coated. SACRIFICIAL ANODES: Magnesium anodes act as a sacrificial corrosion barrier protecting and improving the longevity of the tank interior. MOUNTING: Heavy-duty schedule 80 solid angle tie-down mounts, spring-loaded at the front of the tank. REAR BUMPER: Frame is tailed out; push block constructed of 1/2" steel, reinforced with 1/2" steel gussets, storage box with hinged lid. DRIVE-UNDER PROTECTION: 3x3 square tubing lowered from the bumper. FRONT SPRAY GUARD: Fitted with a 3/16" steel plate welded to front spray bar to provide protection. 1 Year Limited Plumbing Warranty

WATER TRUCK OPTIONS (SEE PAGES 16 - 18 FOR MORE OPTIONS & DETAILS)

- **Epoxy Lining:** Interior epoxy line dramatically increases tank life
- Hose Reel: Manual or electric rewind
- Water Cannon: Elkhart manual or remote operated with toggle box or joystick
- Suction Fill: Ditch fill plumbing, valving, suction hose and foot
- Gravity Drop: Gravity drop 6" pipe with 2-way air operated butterfly valve and splash plate
- Rear View Camera: Rear mounted camera with in cab display.

UNITED RUCK & EQUIP

- Articulated Spray: Electric 12 volt rotating joint for articulated
- Rear Dust Suppression Bar: Air operated 3" or 4" pipe 8' wide. Gravity fed or pressurized with brass VeeJets
- **Tool Box:** Add storage with steel or aluminum locking toolboxes.
- Auxilary Lights: Add auxilary lights such as strobe, beacon or work lights.



FACTORY INSTALLED TANDEM AXLE

ON YOUR TRUCK OR OURS • CALL FOR MODELS & AVAILABILITY





WATER TRUCK SYSTEM 6 SPRAY VALVES TANDEM AXLE CHASSIS STANDARD CAPACITY: 3000 - 6000 Gallons

SIANDARD CAPACITY: 3000 - 6000 Gallons

UnitedBuilt® Water Truck Tank

5 Year Limited Tank Construction Warranty

Six independently air operated UnitedBuilt AV1100 valves. Standard Setup: Two valves with adjustable fan nozzles BC2399 at front of truck. Two valves with adjustable fan nozzles BC2399 at rear of tank. Two mid-ship valves with fan side spray nozzles BC2179 one on each side. Each valve is independently air operated from the cab control console.

PLUMBING: All plumbing is schedule 40 steel pipe with groove style flexible fittings throughout (no threaded fittings or hose plumbing). WATER PUMP: Heavy-duty 4x3 centrifugal cast iron pump 750GPM@65PSI, with ceramic mechanical seal (1000GPM@180PSI available). PTO: Chelsea heavy-duty two gear air shift PTO with 1310 series balanced tube drive line (HOT shift PTO available for automatic transmission). JET VALVE: Standard 1-½" ball valve on tank ladder side of the manifold. SIGHT GAUGE: %" clear all season, flexible rubber tubing at front and rear of tank with brass hardware connections.

LIGHTS: LED sealed beam lights with wiring encased in rubber harness. POWDER COAT: Exterior sand blasted and powder coated. BELLY PLATE: Heavy-duty tanks 3000 gallons and larger are enhanced with full-length belly plate that effectively doubles bottom thickness of tank. Increases durability by reinforcing area most affected by stress and vibration. SACRIFICIAL ANODES: Magnesium anodes act as a sacrifial corrosion barrier protecting and improving the longevity of the tank interior. MOUNTING: Heavy-duty schedule 80 solid angle tie-down mounts, spring-loaded at the front of the tank. Vulcanized rubber wear pad for tanks 3000 gallons and larger. REAR BUMPER: Frame is tailed out; push block constructed of ½" steel, reinforced with ½" steel gussets, storage box with hinged lid. DRIVE-UNDER PROTECTION: 3x3 square tubing lowered from the bumper. FRONT SPRAY GUARD: Fitted with a 3/16" steel plate welded to front spray bar to provide protection. 1 Year Limited Plumbing Warranty

WATER TRUCK OPTIONS (SEE PAGES 16 - 18 FOR MORE OPTIONS & DETAILS)

- **Epoxy Lining:** Interior epoxy line dramatically increases tank life •
- Hose Reel: Manual or electric rewind
- Water Cannon: Elkhart manual or remote operated with toggle box or joystick
- Suction Fill: Ditch fill plumbing, valving, suction hose and foot valve
- Gravity Drop: Gravity drop 6" pipe with 2-way air operated butterfly valve and splash plate
- Rear View Camera: Rear mounted camera with in cab display.
- Articulated Spray: Electric 12 volt rotating joint for articulated spray
- Rear Dust Suppression Bar: Air operated 3" or 4" pipe 8' wide. Gravity fed or pressurized with brass VeeJets
- Tool Box: Add storage with steel or aluminum locking toolboxes.
- Auxilary Lights: Add auxilary lights such as strobe, beacon or work lights.



DROP-ON R-KIT

FULLY PLUMBED & READY TO GO



STANDARD CAPACITY:

1800-2400 gallons (single axle) 3000-6000 gallons (tandem axle). UnitedBuilt® Water Truck Tank. **5 Year Limited Tank Warranty.**

4 VALVE SPRAY SYSTEM: Four air operated UnitedBuilt AV1100 valves: two valves mounted opposite sides at the front, two valves mounted opposite sides at the rear. Valves are independently air operated from the cab control console. All plumbing is schedule 40 steel pipe with groove style flexible fittings. (no threaded fittings or hose plumbing). WATER PUMP: Heavy-duty 4x3 centrifugal cast iron pump 750GPM@65PSI, with ceramic mechanical seal. OPTIONAL

SELF-PRIMING WATER PUMP: Heavy-duty 4x4 self-prime centrifugal cast iron pump 650GPM@50PSI, required with self-loading option (pictured below). DRIVE: Hydraulic drive, with bi-directional hydraulic pump and motor. Motor pre-plumbed to the water pump with filter, pressure relief valve, and oil reservoir. Hydraulic lines (pressure and suction) pre-plumbed through the water tank for fluid cooling. JET VALVE: Standard 1-½" ball valve on the tank ladder side of the manifold. SIGHT GAUGE: 5%" clear all season, flexible rubber tubing at front and rear of tank with brass hardware connections. LIGHTS: LED sealed beam lights with wiring encased in rubber harness.

BELLY PLATE: Heavy-duty tanks 3000 gallons and larger are enhanced with a full-length belly plate that effectively doubles the bottom thickness of the tank. Increases durability by reinforcing area most affected by stress and vibration.

MOUNTING KIT: Six schedule 80 solid heavy-duty angle tie-down mounts with four tank springs, tank guides and hardware. Vulcanized rubber wear pad for tanks 3000 gallons and larger. LIGHTS: LED sealed beam lights with wiring encased in rubber harness. COATING: Exterior sandblasted and primed. (Shown with optional powder coated exterior.) See page 16 for coating options. 1 Year Limited Plumbing Warranty

"R" KIT OPTIONS

Vision Tank • Hose Reel - Manual or Electric Rewind • Front Spray with Plumbing and Hardware Suction Fill Plumbing with Hose and Strainer • Gravity Drop • Water Cannon - Manual or Electric Newton Kwik-Dump Valve • Custom Color Powder Coat • Epoxy Line Interior

CAPACITY OPTIONS: 1500-8000 gallons.

VALVE OPTIONS: (see page 34-35)

AV1100 Air Valves (standard): Air to Close, Interchangeable Nozzle Options

BC2410 Spray Head Valve: Air to Open, Built-in Adj. Nozzle

Inline Air Operated Valves: Heavy-duty or 323 Electric Operated Valves: BMC 12 volt or 24 volt

NOZZLE OPTIONS: (see page 33)

Street Flusher Nozzle Side Spray Nozzle Adjustable Spray Nozzle Fan Spray Nozzle

OTHER SET UP OPTIONS

Articulated Spray Nozzle Raised/Centered Spray Head Lowered Flusher Spray Nozzle Manually Controlled Spray Heads





5 AIR VALVE U-KIT

PUMP, PLUMBING, VALVES & SPRAY HEADS

STANDARD CAPACITY:

1800-2400 gallons (single axle) 3000-6000 gallons (tandem axle) UnitedBuilt® Water Truck Tank. **5 Year**

Limited Tank Warranty

5 VALVE SPRAY SYSTEM: Five

independently air operated UnitedBuilt AV 1100 valves. Two valves for rear spray, two valves for front spray, one valve for side spray. All plumbing provided is schedule 40 steel pipe with groove style flexible fittings. The kit comes standard with a UTE console to independently air operate each valve from inside the cab. WATER PUMP: Heavy-duty 4x3 centrifugal cast iron pump 750GPM@65PSI, with ceramic mechanical seal. JET VALVE: Standard 1-½" ball valve on the tank ladder side of the manifold.



flexible rubber tubing at front and rear of tank with brass hardware connections. LIGHTS: LED sealed beam lights with wiring encased in rubber harness. BELLY PLATE: Heavy-duty tanks 3000 gallons and larger are enhanced with a full-length belly plate that effectively doubles the bottom thickness of the tank. Increases durability by reinforcing area most affected by stress and vibration. MOUNTING KIT: Six schedule 80 solid heavy-duty angle tie-down mounts with four tank springs, tank guides and hardware. Vulcanized rubber wear pad for tanks 3000 gallons and larger. CUT OUTS: Pre-measured steel arches for manifold pipe clearance under the tank, packed loose for custom installation. LIGHTS: LED sealed beam lights with wiring encased in rubber harness. COATING:

1 Year Limited Plumbing Warranty

"U" KIT OPTIONS

Exterior sandblasted and primed. (Shown with optional powder coated exterior.) See page 16 for coating options.

Vision Tank • Hose Reel - Manual or Electric Rewind • Curb Side Spray with Plumbing and Hardware Suction Fill Plumbing with Hose and Strainer • Gravity Drop • Water Cannon - Manual or Electric Newton Kwik-Dump Valve • Custom Color Powder Coat • Epoxy Line Interior

CAPACITY OPTIONS: 1500-8000 gallons.

VALVE OPTIONS: (see page 34-35)

AV1100 Air Valves (standard): Air to Close, Interchangeable Nozzle Options

BC2410 Spray Head Valve: Air to Open, Built-in Adjustable Nozzle

Inline Air Operated Valves: Heavy-duty or 323 Electric Operated Valves: BMC 12 volt or 24 volt

NOZZLE OPTIONS: (see page 33)

Street Flusher Nozzle Side Spray Nozzle Adjustable Spray Nozzle Fan Spray Nozzle

OTHER SET UP OPTIONS

Articulated Spray Nozzle
Raised/Centered Spray Head
Lowered Flusher Spray Nozzle
Manually Controlled Spray Heads







HOOK OR ROLL OFF TANK KIT

PLUMBED & READY TO GO

STANDARD CAPACITY: 2000-4000 gallons. UnitedBuilt® Water Truck Tank 5 Year Limited Tank Warranty.

HOOK/ROLL RECEIVER: Receiver A-frame for hook arm/Rollers for roll off bed and skids built to the specifications of the hook/roller manufacturer. SKIDS: Heavy-duty 3" x 6" tubing with 3/8" wall full-length skids extending out the back of the tank for the water pump platform and rollers. BELLY PLATE: Full belly plate along bottom of tank. WATER PUMP: Heavy-duty 4x3 centrifugal cast iron pump 750GPM@65PSI, with ceramic mechanical seal. OPTIONAL SELF-PRIMING WATER PUMP: FMIH-40 or Berkeley B4ZRKS 4x4 self-prime centrifugal cast iron pump 650GPM@50PSI, required with self-loading option. (Shown with FMIH-40 4x4 self-prime pump.) HYDRAULICS: Bi-directional motor and quick disconnect fittings. OPTIONAL: Hydraulic lines routed through tank depending on the location of chassis' quick couplers. COATING: Exterior sandblasted and primed. Optional powder coating or interior epoxy lining. NOTE: Customer truck must have an extra hydraulic circuit to drive the water pump. 1 Year Limited Plumbing Warranty

SLIDE IN TANK

PLUMBED & READY TO GO

STANDARD CAPACITY: 2000-4000 gallons. UnitedBuilt® Water Truck Tank. 5 Year Limited Tank Warranty TANK: Rectangular shape constructed of 3/16" ASTM-A-36 steel. Ends recessed in shell, welded 100% on both sides. BAFFLES: Two lateral. SKIDS: Six inch channel skids running full-length of tank and extending out the rear for the pump mounting platform. MOUNTING: Heavy-duty tie-down eyes at each corner of the tank. WATER PUMP: Franklin 3" pump with Honda 9HP engine or heavyduty 4x3 centrifugal pump with Robin 13.5HP engine. OPTIONAL SELF-PRIMING WATER PUMP WITH QUICK DISCONNECT HYDRAULIC DRIVE (SHOWN): FMIH-40 or Berkeley B4ZRKS 4x4 self-prime centrifugal cast iron pump 650GPM@50PSI, required with self-loading option. (Shown with FMIH-40 4x4 self-prime pump.) SPRAY SYSTEM: Two fan heads at rear of tank with one air operated in-line valve.







Shown with optional stainless steel tanker.

TANKER TRAILER

PLUMBED & READY TO GO

STANDARD CAPACITY: 6500 gallons. UnitedBuilt® Tanker 5 Year Limited Tank Warranty SELF-PRIMING WATER PUMP: FMIH-40 or Berkeley B4ZRKS 4x4 self-prime centrifugal cast iron pump 650GPM@50PSI, required with self-loading option. SPRAY SYSTEM: 2-6 independently air operated valves with spray nozzles. HYDRAULICS: Bi-directional motor and quick disconnect fittings. OPTIONAL: Hydraulic lines routed through tank depending on the location of chassis' quick couplers. COATING: Exterior sandblasted and primed. Optional powder coating or interior epoxy lining. TRAILER: 5th wheel plate, landing gear and heavy-duty tandem axle. NOTE: Customer truck must have an extra hydraulic circuit to drive the water pump. 1 Year Limited Plumbing Warranty



FLUSHER SYSTEM

HIGH PRESSURE WATER PUMP

STANDARD CAPACITY: 2000-2400 gallons (single axle) 3000-5200 gallons (tandem axle). UnitedBuilt® Water Truck Tank 5 Year Limited Tank Warranty SPRAY SYSTEM: Six independently air operated valves with flusher nozzles: Two valves with lowered flusher nozzles at front of truck. Two valves with lowered flusher nozzles on opposite sides of system. Two valves at back of the tank with standard adjustable fan sprays. (Truck pictured with optional front center flushing nozzle and remote control cannon.) All plumbing in schedule 40 steel pipe with groove style flexible fittings throughout (no thread fittings or hose plumbing). WATER PUMP: High pressure 5x4 centrifugal cast iron pump 1000GPM@180PSI with ceramic mechanical seal. DRIVE: Chelsea heavy-duty two gear air shift PTO with 1310 series balanced tube drive line. MOUNTING: Heavy-duty schedule 80 solid angle tie-down mounts, spring-loaded at front of tank. Vulcanized rubber wear pad for tanks 3000 gallon and larger. LIGHTS: LED sealed beam lights with wire looms encased in rubber harness. COATING: Exterior sandblasted, powder coat exterior. Optional interior sandblasting and epoxy lining. REAR BUMPER: Frame is tailed out: Push block constructed of ½" steel with storage and hinged lid.

1 Year Limited Plumbing Warranty





ON HIGHWAY TANK SYSTEM

WEIGHT TRANSFER FORWARD

STANDARD CAPACITY: 3450-4200 gallons (3450 pictured) legal load. UnitedBuilt® Tank 5 Year Limited Tank Warranty SPRAY SYSTEM: Five independently air operated UnitedBuilt valves; two valves at rear of tank, two valves at front of truck, and one valve on driver's side. Each valve is independently air operated from cab control console. PLUMBING: All plumbing is schedule 40 steel pipe with groove style flexible fittings throughout. WATER PUMP: Heavy-duty 4x3 centrifugal cast iron pump 750GPM@65PSI, with ceramic mechanical seal. PTO: Chelsea heavy-duty two gear air shift PTO with 1310 series balanced tube drive line. LIGHTS: LED sealed beam lights with wiring encased in rubber harness. COATING: Exterior sand blasted and primed, powder coat applied. Optional sandblasted interior with epoxy lining. MOUNTING: Heavy-duty schedule 80 solid angle tie-down mounts, spring-loaded at front of tank. Vulcanized rubber wear pads. REAR BUMPER: Frame is tailed out; push block constructed of ½" steel with storage and hinged lid. FRONT SPRAY GUARD: Fitted with a ¾16" steel plate welded to front spray bar to provide protection.

1 Year Limited Plumbing Warranty



OFF HIGHWAY TANK SYSTEM

RIGID OR ARTICULATED FRAME • SEVERE SERVICE TANK

STANDARD CAPACITY: 5500 - 15000 gallons. UnitedBuilt® Tank

SEVERE SERVICE OFF HIGHWAY TANK SYSTEM: 1/4" ASTM-A-36 top, 5/16" ASTM-A-36 bottom construction. Full lateral and longitudinal baffles. Safety railings run the length of the tank on both sides. 30" screened manway. Drive tire fenders cut and welded into tank. Flexing tank mount system with pin box built into bottom of tank. LED lights and reflectors with wiring encased in conduit, hydraulic motor close coupled to water pump. Heavy-duty 4x3 centrifugal cast iron pump 750GPM@65PSI, with ceramic mechanical seal. (Optional high volume and pressure water pump rated at 1500GPM@100PSI) UnitedBuilt heavy-duty air operated spray heads adjustable pattern and volume spray band.





FIRE TENDER SYSTEM

CUSTOM BUILT TO YOUR SPECIFICATIONS

STANDARD CAPACITY: 2000-4000 gallons. United Built Tank 5 Year Limited Tank Warranty

WATER PUMP: Standard cast iron centrifugal pump, 750GPM@65PSI or high pressure 1000GPM@180PSI with a ceramic mechanical seal. **DISCHARGE:** 2½" discharge valves with male NST threads plumbed to any location of the truck. **SPRAYS:** Air operated side spray valves. **QUICK DUMP:** 10" manual, air or electric quick dump with optional 90 degree chute for rear dump or side dump. **MONITORS:** Manual or 12V remote control monitor. **STORAGE:** Portable tank storage and ladder holders built onto main tank. Tool boxes around frame of truck.

1 Year Limited Plumbing Warranty CALL WITH YOUR CUSTOM SPECIFICATIONS





NITRO HD CANNON
Sealed high torque motors and sealed heavy-duty nozzle with

joystick control.



SIDEWINDER 8494
Classic remote controlled monitor with either toggle or joystick control.



Manual Rear Mounted



8494 Remote Operated Rear Mounted

WATER CANNON

Elhart Brass water cannons. Available in manual or electric (12 volt or 24 volt) with toggle box or joystick cab control. New Nitro HD cannon available suited for the most extreme environments with sealed high torque motors, sealed heavy-duty nozzle and joystick control.





Tank Runner Storage



Fender Hose Tube Storage

SUCTION FILL

Self-load plumbing with internal priming tank. Suction hose with foot valve. Standard tank runner storage, tank hose hooks or tank hose tubes. Protek Hand Primer pump available.



Standard Rear Tank Head Mounted



Deck Mounted



American Reel Crank Style



American Reel 12V Motor Rewind

HOSE REEL

American or COX hose reels. Available in manual or electric rewind. Frame, tank or deck mounted. Available sizes:

50' x 1½" Hose 50 100' x 1½" Hose 10

50' x 1" Hose 100' x 1" Hose



EPOXY COATING TANK INTERIOR

Maximize tank life with epoxy interior lining that protects against rust. Sandblast tank interior to white metal. Clean out and spray in epoxy lining. Potable application available.





UNDERCOAT APPLICATION

Thick resilient coating applied to the tank belly, plumbing, pump, and chassis. Waterproof coating that protects against abrasion, rust, corrosive salt, damp and extreme temperatures. Excellent UV protection.





HOT SHIFT PTO

Heavy-duty 2-Gear Chelsea Hot Shift PTO. Call with you transmission model number.



MOTOR PUMP

1½" Gear 2" Gear

1¾" Gear

HYDRAULIC MOTOR & PUMP

Bi-Direction series hydraulic motor and pump.



AUXILIARY ENGINE

Isuzu 3CH1 diesel pony motor direct coupled to water pump with in cab controls.



HIGH PRESSURE WATER PUMP

Reach maximum performance with a high pressure heavy-duty Berkeley B4ERBMS centrifugal water pump 1000GPM @ 180PSI.



SUPER SINGLE TIRES & ALUMINUM RIMS

Super single tires are stronger and lighter than their counterparts. Aluminum rims are resistant to corrosion, stronger and lighter than steel wheels. Both improve gas mileage, load capacity and longevity.



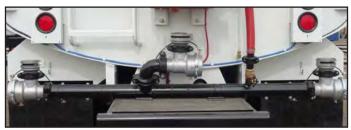
ARTICULATED SPRAY

Electric articulated spray head with in cab controls. Vertically or horizontally adjust or your spray position from your cab.



LOWERED SPRAY HEADS

Easily adjust the height or direction of your spray nozzles with 90° Gruvlok elbows.



CENTER SPRAY HEAD

Maximize spray coverage with a third rear or front center spray valve.



GRAVITY DROP

Tank fed 6" gravity drop with splash plate. Air operated from the cab control console. Reduces wear on pumping system.



DUST SUPPRESSION BAR

Dust suppression spray bars are 8' wide available in 3" or 4" pipe. Air operated from the cab control console. Gravity fed from the tank or plumbed to water pump for pressure. Optional nozzles are ½" VeeJets on 6" centers (16 nozzles.)





TOOL BOX STORAGE

Frame or tank mounted locking tool boxes. Aluminum or steel.



TOOL HOLSTERS OR BASKET

Tank mounted tool holsters or basket for additional storage.



REAR VIEW CAMERA

Rear view camera with in cab display for additional visibility and safety.



FENDER HOSE TRAY

Integrated fender hose trays for lay flat hose storage.



WORK LIGHT



DUMP VALVE

Newton Kwik-Dump Valve manual or air operated. Optional 90° chute.



STROBE OR BEACON

LED tank mounted strobe or beacon lights.



SEALING MANWAY

Sealing vented 20" tank manway lid.



PORTATANK

PortaTank storage built into rear tank runners or side mounted.



ELECTRONIC WATER LEVEL DISPLAY

Convenient display of water level with a gauge inside and outside of the cab.





GRAVITY DROP ASSEMBLY

2-Way Air Operated Buttefly Valve • 6" Black Pipe Maximize Pump Life with Gravity Spray

DESCRIPTION	WT/LB	PART#
Gravity Drop Assembly Air Operated	120	9455





MOUNTING PARTS

INDEX DESCRIPTION	PART#
A 6" Groove Coupling Rigidlok	4248
B 6" Weld x Groove Nipple 6" Long	4495

DRIP BAR KIT

8' Wide with ½" Female Threaded Ports on 6" Centers.
Optional Brass VeeJets Sold Separately.
2-Way Air Operated Buttefly Valve
Plumb to Pump for Pressure or Tank for Gravity Spray

3" DRIP BAR KIT

DESCRIPTION	QTY	PART#
3" Drip Pipe with Flange	1	8409
3" Groove Cap	2	0683
3" Groove Coupling	6	0687
3" Groove 90°	1	0677
3" Weld x Groove Nipple 3" Long	1	1486
3" Weld Flange w/ Groove Nipple	1	4595
3" Pipe Groove x Groove 20" Long	2	9293
Mounting Bracket for 3" Drip Pipe	2	9625
3" Air Operated Buttefly Valve	1	9157
2-Way Air Switch	1	1494
2-Way Air Switch Bracket	1	8270
Airline Fitting 90° Swivel 1/4" Tube x 1/8" MNPT	5	5547

4" DRIP BAR KIT

DESCRIPTION	QTY	PART#
4" Drip Pipe with Flange	1	6841
4" Groove Cap	2	4783
4" Groove Coupling	6	0689
4" Groove 90°	1	0678
4" Weld x Groove Nipple 4" Long	2	2747
4" Weld Flange	1	1642
4" Pipe Groove x Groove 20" Long	2	7008
Mounting Bracket for 4" Drip Pipe	2	6961
4" Air Operated Buttefly Valve	1	9158
2-Way Air Switch	1	1494
2-Way Air Switch Bracket	1	8270
Airline Fitting 90° Swivel 1/4" Tube x 1/8" MNPT	5	5547















PARTS FOR 3" OR 4" PRESSURE SPRAY BAR

Plumb directly into rear feed pipe for pressure spray.

INDEX	DESCRIPTION	QTY	PART#
Α	Brass VeeJet Nozzle ½" MNPT	16	3909
В	3" Groove x Notch 2 3/4" Long	1	3938
	For 4" pressure spray bar add above and b	elow par	ls.
С	3" Groove Coupling	1	0687
D	4" x 3" Groove Reducer	1	7041





TANK MOUNTING KITS

For tandem and single axle chassis

DESCRIPTION	WT/LB	PART#
Heavy-duty Mount Kit w/ Springs & 3/4" Hardware (Tandem Axle)	60	9730
Light-duty Mount Kit w/ Springs & 5/8" Hardware (Single Axle)	55	3342
Tank Spring (4 Req)	0.60	1203
See page 57 for installation instructions	and diaar	ams



BOGIE BRACKETS

For tanks greater than 4000 gallons

INDEX	DESCRIPTION	WT/LB	PART#
Α	Chassis Bogie Brackets (2 Req)	12.94	9744
В	Tank Bogie Brackets (2 Req)	11.11	9773
See nac	e 57 for installation instructions	and diac	ırams



Vulcanized Rubber Wear Pad Absorbs Vibration Maximizing Tank Life

DESCRIPTION	WT/LB	PART#
Vulcanized Rubber Wear Pad 2½"x30"	5.5	9865



HOSE REEL BRACKETS

For tank mounted hose reels

DESCRIPTION	WT/LB	PART#
Tank brackets American Reels (2 Req)	7	8289
Tank brackets COX Reels (2 Req)	7	3609



HOSE RACK

For simple hose storage

DESCRIPTION	WT/LB	PART#
Weld on hose rack	34	9875
American Reel tank bracket conversion	45	9805
COX Reel tank bracket conversion	45	9806



TANK BAFFLE ANODES

Acts as a sacrificial corrosion barrier

ŧ	DESCRIPTION	WT/LB	PART#
	Magenesium Anodes for Tank Baffles	1.25	9462
	2 Required Per Baffle		







TANK SIGHT GAUGE

All weather flexible clear tubing

INDE	K DESCRIPTION	WT/LB	PART#
Α	Flexible PVC Clear Tubing (5%" cut by the foot)	0.1	1201
В	Sight Gauge Fitting w/ Ferrule 5/8" Tube x ½" MNPT	0.27	1194
С	Ferrule 60X10	0.0006	<i>7</i> 631
D	Insert 2030X10	0.0006	7632





MUDFLAPS

DESCRIPTION	DIMENSIONS	WT/LB	PART#
UTE Mud Flap (Sold as Pair)	24" W x 36" L	18/Pair	0821
Mud Flap Extension 12 Gauge Steel	6" W x 24" L	4.5	8325
Anti Sail Mud Flap	24" W x 36" L	26 Pair	3215
Anti Sail Bracket	22" Wx 21" L	2.5	4360
Mud Flap Hook		0.12	5925





HYDRANT FILL

2½" Black Pipe

INDEX	DESCRIPTION	WT/LB	PART#
Α	Hydrant Fill 10' Tank	45	4018
Α	Hydrant Fill 15' Tank	60	3475
В	2½" Groove Coupling Rigidlok	2.8	0696
С	21/2" Groove 90°	2.77	0676
D	Hydrant Fill T-Nut	0.3	4815
E	Hydrant Fill Swing Spout	9	3476

HYDRANT FILL KIT

Hydrant Fill Pipe, T-Nut, Spout, (2) Groove Couplings Zeroflex & Groove 90°

DESCRIPTION	WT/LB PART#
10' Tank Hydrant Fill Kit	64 5910
15' Tank Hydrant Fill Kit	79 5909



MANWAY SCREEN

DESCRIPTION	WT/LB	PART#
Manway Screen for 25" Manway	25	<i>7</i> 481



QUICK DUMP

Newton Kwik Dump Valve

DESCRIPTION	MODEL	WT/LB	PART#
10" Gate Style Quick Dump Valve	1050	65	2263
Specia	Order		



FIRE HYDRANT ADAPTER

Brass

DESCRIPTION	WT/LB	PART#
2½" Male NPT x 2½" Female Phoenix	2.5	3000
2½" Male NPT x 2½" Female NST	2	3002
21/2" Male NPT x 21/2" Female NST Swivel	2.72	3405
2½" Male NPT x 2½" Male NST	1.5	3802
2½" Female NPT x 2½" Female NST Swivel	3.53	3626
2½" Female NPT x 2½" Male NST	1.49	4030
2½" Female Phoenix x 2½" Male NST	2.5	4268
2½" Male NST x 2½" Male NST	1.61	6024



ADJUSTABLE HYDRANT WRENCH

ESCRIPTION	WT/LB	PART:
diustable Hydrant Wrench	3	2999



WT/LB PART#

7570 7624

STRAINER VALVE

CHECK VALVE

DESCRIPTION

2½ Female NPT" 3" Female NPT

Bronze

Stainless Steel Basket

DESCRIPTION	WT/LB	PART#
2½ Female NPT"	24	4293



TANK MANWAY

UnitedBuilt Standard Manway 25" Diameter

DESCRIPTION	WT/LB	PART#
Manway Ring 25"	30	3565
Manway Lid for 25" Ring	19	2488
Manway Lid Handle	1	3394
Manway Hinge 4x4	1	1199
Manway Ring with Hinged Lid Assembly	50	1740



QUICK DUMP CHUTE 90°

Newton Kwik Dump Valves

DESCRIPTION	MODEL	WT/LB	PART#
10" Slip On 90°	2090	34	4307
	Special Order		



MANWAY COVERS

Inspection Covers & Sealing Lid

DESCRIPTION	DIAMETER	WT/LB	PART#
Inspection Cover Cad Plated	16"	14	9534
Inspection Cover Cad Plated	20"	18	4831
Vented Sealing Manway Lid	20"	33	1179
Manway Ring Steel	16"	5	9535
Manway Ring Stainless Steel	16"	5	9536
Manway Ring Steel	20"	9	5012
Manway Ring Stainless Steel	20"	9	4830



QUICK DUMP FLANGE

Mild Steel Shown

DESCRIPTION	WT/LB	PART#
Quick Dump Flange Mild Steel	4	6068
Quick Dump Flange Stainless Steel	4	3734
4-Bolt Strip	0.5	5518





LIGHT BRACKETS

INDE	X DESCRIPTION	WT/LB	PART#
Α	Rear Light Bracket	4.50	7127
В	Marker Light Bracket	0.50	2085
C	ID Light Bracket	1	2101



TANK LIGHT KIT

Back Up, Stop, Turn & Marker Lights LED

INDEX	DESCRIPTION	QTY REQ	WT/LB EACH	PART#
Α	Back Up Lamp LED	2	0.25	9310
В	Tail Lamp Red LED	4	0.25	9311
С	Pigtail Adapter for Part # 9311	4	0.06	9330
D	Marker Light Amber LED	2	0.10	9308
E	Marker Light Red LED	5	0.10	9309
F	Tail Light Grommet	6	0.17	3354
G	Marker Light Grommet	7	0.12	2928
Н	License Plate Light (Mounts on 2" Centers)	1	0.25	3518
(A-H)	Tank Light Kit LED		4.52	9312



WORK LIGHT ECCO E92004 LED - 700 LUMEN

DESC	RIP	TION		
Work	Light	LED E	CO E	92004

IS		

WT/LB

1.05



STROBE AMBER LED

Strobe Amber LED ECCO 7965A

ECCO 7965A

DESCRIPTION

LED

PART#

9504





LIGHT HARNESS KIT

INDEX	DESCRIPTION	QTY REQ	WT/LB EACH	PART#
Α	6 Lamp Pig Tails, 3 Marker Pig Tails	1	2.65	9861
В	Single Marker 36" Long	2	0.15	9862
С	Single Marker 90" Long	2	0.36	9863
D	Triple Marker Pig Tail 138" Long	1	0.56	9864
(A-D)	Light Harness Kit		4.26	9885



BEACON AMBER LED

WHELEN L31HAFCA

PART#

9604

WT/LB

1.77

LED	
DESCRIPTION	W

WT/LB PART# Beacon Amber LED Whelen L31HAFCA 9510



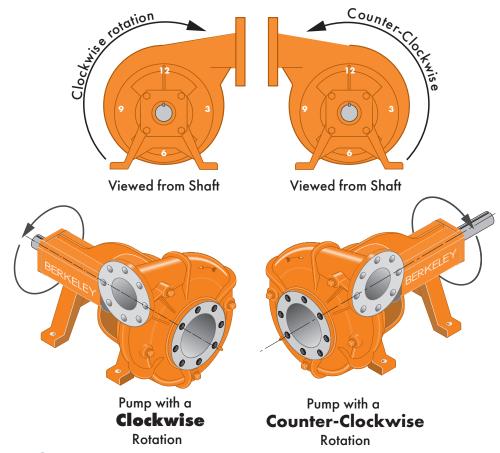


TRUCK ADAPTER

IND	EX DESCRIPTION	WT/LB	PART#
Α	Kenworth Adapter Plug	0.36	9887
В	Universal Adapter Plug	0.37	9888



PUMP ROTATION GUIDE



FIRST TIME USE

ROPE PACKING:

Before starting the pump for the first time, **LOOSEN GLAND NUTS** and retighten, **FINGER TIGHT**. Once running, allow packing to leak liberally for a few moments. Then tighten gland nuts one complete turn each until leakage is reduced to 40 to 60 drops per minute.

MECHANICAL SEAL:

Adjustment or maintenance is normally not required. The seal is enclosed within the pump and is self adjusting.

CAUTION

CLOSING SPRAY VALVES:

NEVER close spray valve(s) under full pressure. Pump or spray valve damage may occur. Let engine wind down with clutch disengaged, then close spray valves.

LUBRICATION:

Grease pump and PTO drive shaft every 40 hours of operation with high quality multipurpose NGLI 2 grease. Excess grease will cause bearings to run hot and damage internal parts. The liquid end of the pump is lubricated by pumped water. **NEVER** run pump without water or it will over heat and cause premature failure.

PACKING GLANDS:

NEVER over tighten packing glands or the pump will over heat and cause premature failure.

PRIMING PUMP

Pump volute MUST BE completely filled with water when operating.

A self-priming pump only needs to be manually primed at the first start-up. Once primed, under normal conditions pump will re-prime automatically at each subsequent start-up.

To prime, remove plug from top of pump case and fill case with water. Replace plug and start pump. Unit is equipped with a flapper type check valve which will open at start-up and allow pump to evacuate air from the suction line. After several minutes of operation, pump will be fully primed and pumping water. Priming time will vary.





UNITEDBUILT 4X3 WATER TRUCK PUMP

UnitedBuilt manufactures pumps of certified quality gray iron with precision casting, machining, and balancing to maximize performance and service time.

- Cast components made from SAE grade 30,000 PSI Virgin Gray Iron.
- Pump components only cast from certified alloys of known quality.
- Shafts manufactured from StressProof® Steel maximizing strength.
- Precision machined and balanced impellers reduce vibrations.
- Extreme tolerances ensure lasting performance.
- · Machined, balanced, calibrated and assembled in the USA

M3ZRM ROPE PACKING (PICTURED)

MAX RPM: 2,500 RATED: 750GPM @ 65PSI

DESCRIPTION	MODEL#	WT/LB	PART#
Water Truck Pump Grooved (CW) Rope Packing	B66899MS	97	9762
Water Truck Pump Grooved (CCW) Rope Packing	B66895MS	97	9335

Direct Interchange with B66899 & B66895

M3ZRMS MECHANICAL SEAL

MAX RPM: 2,500

RATED: 750GPM @ 65PSI

DESCRIPTION	MODEL#	WT/LB	PART#
Water Truck Pump Grooved (CW) Mech Seal	B68417MS	97	9601
Water Truck Pump Grooved (CCW) Mech Seal	B68416MS	97	9960

Direct Interchange with B68417 & B68416

UNITEDBUILT PUMP REPAIR PARTS

Designed and manufactured for lasting performance and direct interchange with B3ZRM and B3ZRMS pumps.

UNITEDBUILT VOLUTES

UnitedBuilt manufactures volutes of heavy-duty cast gray iron with grooved ends for convenient maintenance and enhanced longevity.



DESCRIPTION	MODEL#	WT/LB	PART#
Volute Grooved (CW)	H04040MS	45	9795
Volute Grooved (CCW)	H04041MS	45	9331

Interchangeable with B3ZRM(S) Parts

UNITEDBUILT M3ZRM(S) POWERHEADS

Powerheads are a great way to keep your operation going, offering minimal repair time.



DESCRIPTION	MODEL#	WT/LB	PART#
Powerhead (CW) Rope Packing (Pictured)	B85552MS	60	9752
Powerhead (CCW) Rope Packing (Pictured)	B85551 MS	60	9322
Powerhead (CW) Mechanical Seal	B85550MS	60	9965
Powerhead (CCW) Mechanical Seal	B85549MS	60	9964

Interchangeable with B3ZRM(S) Parts

UNITEDBUILT SHAFT KITS

Made with StressProof® Steel to maximize strength.



DESCRIPTION	MODEL#	WT/LB	PART#
Shaft Kit (CW) Rope Packing	B80698MS	8	8111
Shaft Kit (CCW) Rope Packing	B80696MS	8	8110
Shaft Kit (CW) Mech Seal (Includes SS Snap Ring)	B80699MS	8	8115
Shaft Kit (CCW) Mech Seal (Includes SS Snap Ring)	B80697MS	8	8113

Interchangeable with B3ZRM(S) Parts

UNITEDBUILT IMPELLERS

Manufactured of certified gray iron. Precision machined and balanced to maximize performance and life.

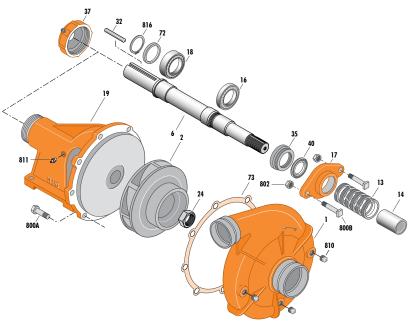


DESCRIPTION	MODEL#	WT/LB	PART#
Impeller (CW)	M02153MS	10	8517
Impeller (CCW)	M02181 MS	10	8516

Interchangeable with B3ZRM(S) Parts







MODEL# B3ZRM

MAX RPM: 2,500

RATED: 750GPM @ 65PSI

DESCRIPTION	MODEL#
Berkeley CW Water Pump, Grooved, Rope Seal	B66899
Berkeley CCW Water Pump, Grooved, Rope Seal	B66895
Berkeley CW Water Pump, Threaded, Rope Seal	B66161
Berkeley CCW Water Pump, Threaded, Rope Seal	B66168

B3ZRM REPAIR PARTS

INDEX 1	DESCRIPTION UnitedBuilt Volute Grooved (CW)	MODEL# H04040MS	PART# 9795
1	UnitedBuilt Volute Grooved(CCW)	H04041MS	9331
1	Volute Case Threaded (CW)	H00689	Call
1	Volute Case Threaded(CCW)	H00698	Call
2	UnitedBuilt Impeller (CW)	M02153MS	8517
2	UnitedBuilt Impeller (CCW)	M02181 MS	8516
17	UnitedBuilt Split Packing Gland	B82468MS	9946
19	Frame, Housing	H00553	3025
37	Outer Bearing Cap	S 19914	0968
Not Shown	Spacer, Sleeve	S08980	0957
A008	Capscrew, Hex 3/6 "-16×1" (8 Req.)	S26826	4543
Not Shown	Washer, Bearing Lock	\$16181	3818
810A	Brass Hex Socket Plug 1/4" (4 Req.)	S23715	7639
811	Fitting, Grease	S23670	7855

B3ZRM SHAFT KIT ROPE SEAL

UnitedBuilt shaft kits are made with StressProof Steel for extra strength

INDEX Includes *	DESCRIPTION UnitedBuilt Shaft Kit Rope (CW)	MODEL# B80698MS	PART# 8111
Includes *	UnitedBuilt Shaft Kit Rope (CCW)	B80696MS	8110
*6	Shaft	N/A	N/A
* 14	UnitedBuilt Shaft Sleeve	S39242MS	9958
* 16	Bearing, Inboard	\$13270	3149
* 18	Bearing, Outboard	\$13271	3158
*24	Nut, Impeller (CW) (1 Per Kit)	M10220	3146
*24	Nut, Impeller (CCW) (1 Per Kit)	U36-189SS	4379
*32	Shaft Key, 1/4" x 21/8"	\$24255	6260
*72	UnitedBuilt Thrust Ring	S29218MS	9957
*816B	Snap Ring, Retaining External	\$23010	3150

B3ZRM ROPE SEAL KIT

INDEX Includes **	DESCRIPTION Complete Rope Packing Seal Kit	MODEL#	PART# 9807
* * 13	Ring, Packing (Set of 6)	\$14022	3924
**35	UnitedBuilt Inner Grease Cap	S19033MS	9397
**40	Slinger, Water	\$12260	2174
* *73	Gasket, Volute	S05126	0954
**800B	Bolt, Sq. Head 3/8"-16x21/2" (2 Req	.) \$23762	0970
**802	Nut, Hex 3/8"-16 (2 req.)	\$23343	0969

B3ZRMS REPAIR PARTS

INDEX 1	DESCRIPTION UnitedBuilt Volute Grooved (CW)	MODEL# H04040MS	PART# 9795
1	UnitedBuilt Volute Grooved(CCW)	H04041MS	9331
1	Volute Case Threaded (CW)	H00689	Call
1	Volute Case Threaded(CCW)	H00698	Call
2	UnitedBuilt Impeller (CW)	M02153MS	8517
2	UnitedBuilt Impeller (CCW)	M02181 MS	8516
19	Frame, Housing	H04007	2249
37	Outer Bearing Cap	S 19914	0968
Not Shown	Spacer, Sleeve	\$08980	0957
800	Bolt, Hex 3/8"-16x1" (8 Req.)	S26826	4543
Not Shown	Washer, Bearing Lock	\$16181	3818
810	Brass Hex Socket Plug 1/4" (4 Req.)	S23715	7639
811	Fitting, Grease	\$23670	7855

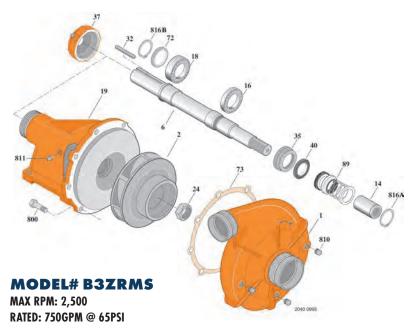
B3ZRMS SHAFT KIT MECHANICAL SEAL

UnitedBuilt shaft kits are made with StressProof Steel for extra strength

INDEX Includes *	DESCRIPTION UnitedBuilt Shaft Kit Mech (CW)	MODEL# B80699MS	PART# 8115
Includes *	UnitedBuilt Shaft Kit Mech(CCW)	B80697MS	8113
*6	Shaft	N/A	N/A
* 14	UnitedBuilt Shaft Sleeve	S39242MS	9958
* 16	Bearing, Inboard	S13270	3149
* 18	Bearing, Outboard	S13271	3158
*24	Nut, Impeller (CW) (1 Per Kit)	M10220	3146
*24	Nut, Impeller (CCW) (1 Per Kit)	U36-189SS	4379
*32	Shaft Key, 1/4" x 21/8"	S24255	6260
*72	UnitedBuilt Thrust Ring	S29218MS	9957
*816A	Snap Ring, Retaining External SS	\$23009	2173
*816B	Snap Ring, Retaining External	\$23010	3150

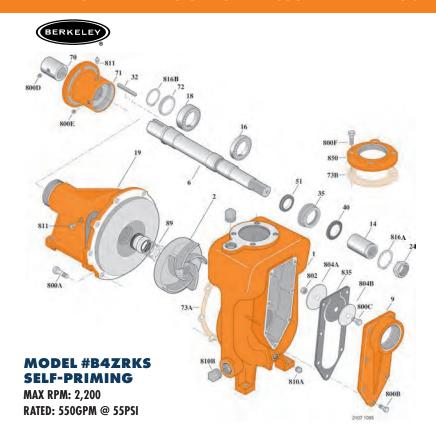
B3ZRMS MECHANICAL SEAL KIT

INDEX Includes **	DESCRIPTION Complete Mechanical Seal Kit	MODEL#	PART# 9808
**89	UnitedBuilt Mehcanical Seal	S32690MS	9967
**35	UnitedBuilt Inner Grease Cap	S19033MS	9397
**40	Slinger, Water	\$12260	2174
* *73	Gasket, Volute	S05126	0954



DESCRIPTION	MODEL#
Berkeley CW Water Pump, Grooved, Mechanical Seal	B68417
Berkeley CCW Water Pump, Grooved, Mechanical Seal	B68416
Berkeley CW Water Pump, Threaded, Mechanical Seal	B68414
Berkeley CCW Water Pump, Threaded, Mechanical Seal	B68415





 DESCRIPTION
 MODEL#
 PART#

 CW Self Priming Water Pump w/ Hydraulic Adapter
 B69876
 2020

B4ZRKS REPAIR PARTS

INDEX	DESCRIPTION	MODEL#	PART#
1	Volute Case	H02505	Call
2	Open Face Impeller	M08095	2176
9	Cover, Suction	L04108	2461
19	Frame	H04007	2249
70	UnitedBuilt Hydraulic Shaft Coupler	S30636MS	9848
<i>7</i> 1	Arms Bracket, Coupling Kit	B0779	9911
73B	Gasket, Blind Flange	\$10364	3010
A008	Capscrew, Hex % "-16x1" (8 Req.)	S26826	4543
800B	Capscrew, Hex % "-16x1 1/4" (7 Req.)	\$26828	Call
800C	Capscrew, Hex ¾"-16x¾"	S26824	3005
800D	Set Screw, Hex ½"	\$23964	Call
800E	Set Screw, Hex 5/8" (2 Req.)	\$23965	5122
800F	Capscrew, Hex 5/8-11x13/4" (4 Req.)	S27001	3011
802	Nut, Hex 3/6-16	\$23103	3008
804A	Weight Clack	S14842	3007
804B	Weight Clack	\$15325	3006
810A	Plug, ½"	S23717	4541
810B	Plug, 1 ½" (2 Req.)	\$23695	6794
811	Grease Zerk (3 Req.)	S23670	7855
835	Clack Rubber	L04119	2210
850	Flange Companion	\$15933	3009

B4ZRKS SHAFT KIT - HYDRAULIC DRIVE

INDEX	DESCRIPTION	MODEL#	PART#
Includes *	UnitedBuilt Shaft Kit Mech (CW)	B80703MS	9868
*6	Shaft	N/A	N/A
* 14	UnitedBuilt Shaft Sleeve	S39242MS	9958
* 16	Bearing, Inboard	S13270	3149
* 18	Bearing, Outboard	S13271	3158
*24	Nut, Impeller (CW)	M10220	3146
*32	Shaft Key, 1/4" x 21/8"	\$24255	6260
*72	UnitedBuilt Thrust Ring	S29218MS	9957
*816A	Snap Ring, Retaining External SS	\$23009	2173
*816B	Snap Ring, Retaining External	\$23010	3150

B4ZRKS MECHANICAL SEAL KIT

INDEX	DESCRIPTION	MODEL#	PART#
Includes **	Complete Mechanical Seal Kit		9808
**89	UnitedBuilt Mehcanical Seal	S32690MS	9967
**35	UnitedBuilt Inner Bearing Cap	S19033MS	9397
**40	Slinger, Water	\$12260	2174
**73A	Gasket, Volute	\$05126	0954

822 800C 8110 800A 6 73 115 2 32B 119 809 1119A 802 800B 119B 89 114 800B 810A 80DEL #B4ERBMS HIGH PRESSURE

DESCRIPTION	MODEL#	PART#
CW Water Pump 5X4	B73023	3844
CCW Water Pump 5X4	B73027	3845

B4ERBMS REPAIR PARTS

INDEX	DESCRIPTION	MODEL#	PART#
1	Volute Case CW	H01939	4111
1	Volute Case CCW	H01940	9654
2	Impeller CW	L06015	4435
2	Impeller CCW	L06020	5239
7	Wear Ring	S32745	4415
11	Retainer Mechanical Shaft Seal	S11452	4531
26	Screw, Impeller ½-13x1½"	\$23623	4533
35	Inner Bearing Cap	S13213	5860
37	Outer Bearing Cap	\$35277	9689
40	Slinger, Water	S10964	3636
51	Seal, Oil	S14764	4413
69	Washer, Impeller	S18117	4863
73	Gasket, Balance Ring	S09943	4029
89	Seal, Mechanical Shaft	\$32693	3917
115	Balance Ring	L03649	5859
119A	O-Ring	\$13760	1936
119B	O-Ring	\$24599	4414
800A	Capscrew, Hex ½-13x1¼" (8 Req)	S26914	N/A
800B	Bolt, SQ Head ½-13x2¼" (2 Req)	\$23792	4539
800C	Capscrew, Hex %-16x1" (6 Req)	S26826	4543
802	Nut, Hex 1/2-13x 7/16" (2 Req)	S23347	3639
805A	Washer, Lock	\$23038	4197

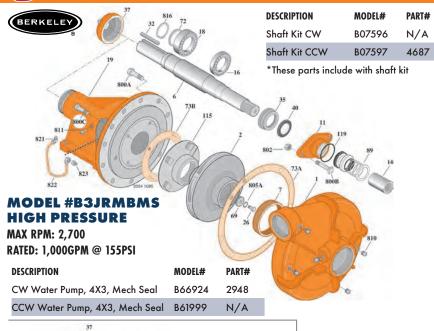
B4ERBMS SHAFT KIT

INDEX	DESCRIPTION	MODEL#	PART#
Includes *	Shaft Kit CW/CCW	B60659	5238
*6	Shaft	N/A	N/A
* 14	Sleeve, Shaft	S05974L	4200
* 16	Bearing, Inboard	\$13395	4265
* 18	Bearing, Outboard	\$13754	4410
*32A	Key, ½"	S24214	6688
*32B	Key, 1/4	S24170	6849
*72	Ring, Thrust	\$19221	4411
*816A	Ring, Retaining Internal	\$23016	4352
*816B	Ring, Retaining External	\$23017	N/A

MAX RPM: 3600

RATED: 1,000GPM @ 180PSI

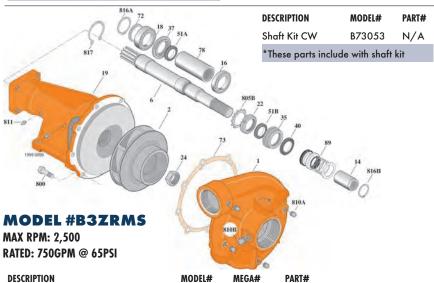




INDEX	DESCRIPTION	MODEL#	PART#
1	Case, Volute CW	H01863	7088
1	Case, Volute CCW	H01892	9548
2	Impeller CW	L03038	4027
2	Impeller CCW	L03115	4688
*6	Shaft	N/A	N/A
7	Ring, Wearing	S04176	6179
11	Retainer, Mechanical Shaft Seal	S11452	4531
* 14	Sleeve, Shaft	S05974	4200
* 16	Bearing, Ball	\$15604	4026
* 18	Bearing, Ball	\$13396	4264
19	Frame	H01838	N/A
26	Screw, Impeller ½-13x1-½"	S23623	4533
*32	Key, ½x4"	S24214	6688
35	Inner Bearing Cap	S05928	4032
37	Outer Bearing Cap Assembly	\$35277	9689
40	Slinger, Water	\$10964	3636
69	Washer, Impeller	S06319	4271
*72	Ring, Thrust	S06519	4351
73A	Gasket, Volute	S06271	4028
73B	Gasket, Balance Ring	S09943	4029
89	Seal, Mechanical Shaft	S32693	3917
115	Ring, Balance	M05073	N/A
119	O-Ring	S26471	4537
800A	Capscrew, Hex 5%-11x11/2" (12 Reg)	S26999	N/A
800B	Bolt, Sq Head ½-13x2¼" (2 Req)	S23792	4539
800C	Capscrew, Hex 3/6-16x1" (4 Reg)	S26826	4543
802	Nut, Hex ½-13x7/16" (2 Reg)	S23347	3639
805A	Washer, Lock	\$23038	4197
810	Plug, Pipe ½" NPT (6 Req)	S23717	4541
811	Fitting, Grease	\$23670	7855
*816	Ring, Retaining	\$23016	4352

15						
	78		DESCRIP	TION	MODEL#	PART#
	50	6	Shaft K	it CW	B82184	3403
19			*These	parts includ	e with shaft	kit
SOZA SOI LA HANDE AX RPM: 1,800 NTED: 2,000GPM @ 30PSI	805.4	805B 22 3 3 802B - 3	5 40 17	13 800 810		
ESCRIPTION	MODEL#	PART#				
(6 CW Rope Packing	B69501	3404	0			
W Sq. Discharge, Rope	B56372	3469				

INDEX	DESCRIPTION	MODEL#	PART#
1	Case, Volute	H05065	3811
Not Shown	Volute Sq Discharge	H01750	N/A
2	Impeller CW	M04186	0950
* * 13	Ring, Packing (Set of 6)	\$14022	3924
* 14	Sleeve, Shaft	S05127L	2916
* 16	Bearing, Ball	S13270	3149
17	UnitedBuilt Split Packing Gland	B82468MS	9946
* 18	Bearing, Ball	S13271	N/A
19	Frame	H00553	3025
22	Locknut	M10221	3819
26	Screw, Impeller 3/4-16x13/4"	S23572	N/A
*32	Key, 1/4x21/8"	S24255	6260
**35	Inner Bearing Cap	S19033MS	9397
37	Outer Bearing Cap	\$19914	0968
**40	Slinger, Water	\$12260	2174
69	Washer, Impeller	S06314	2647
**73	Gasket, Volute	S05126	0954
*78	Sleeve, Spacer	S08980	0957
**800	Bolt, Sq Head %-16x21/2" (2 Req)	\$23762	0970
801	Stud, 3/8-16x11/4" (8 Req)	S23994	4227
802A	Nut, Hex 3/8-16 (8 Reg)	\$23103	3008
**802B	Nut, Hex 3/8-16 (2 Req)	\$23343	0969
805A	Washer, Lock	\$23036	2694
805B	Washer, Bearing Lock	\$16181	3818
Includes **	Complete Rope Packing Seal Kit		9807

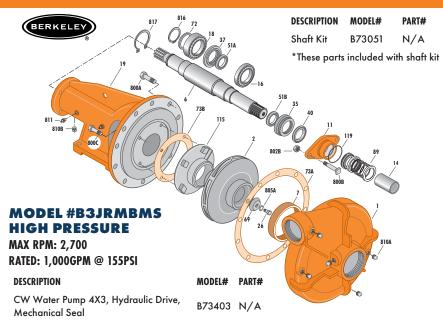


INDEX	DESCRIPTION	MODEL#	PART#
1	Volute Case (CW) Threaded	H00689	Call
2	UnitedBuilt Impeller CW	M02153MS	8517
* 14	UnitedBuilt Shaft Sleeve	S39242MS	9958
* 16	Single Row Ball Brg.	\$13270	3149
* 18	Double Row Ball Brg.	M 10218	3148
19	Frame	H05119	4544
*22	Brg. Lock Nut	M10221	3819
24	Locknut, Impeller	M10220	3146
*35	Drip Brg. Cap	M 10213	3004
*37	Outer Brg. Cap	M10214	N/A
40	Slinger, Water	\$12260	2174
*51A	Lip Oil Seal	M 10217	3153
*51B	Lip Oil Seal	M10216	3003
*72	Thrust Washer	M10222	3152
73	Case Gasket	S05126	0954
*78	Spacer Sleeve	M10215	N/A
89	UnitedBuilt Mechanical Seal	S32690MS	9967
800	Cap Screw 3/4-16x1" (8 Req)	S26826	4543
*805B	Lock Washer, Brg.	\$16181	3818
810A	Pipe Plug 1/4" NPT	S23715	7639
811	Grease Fitting	S23670	7855
*816A	Retaining Ring Ext.	\$23010	3150
*816B	Retaining Ring Ext.	\$23009	2173
*817	Retaining Ring Int.	\$23023	N/A

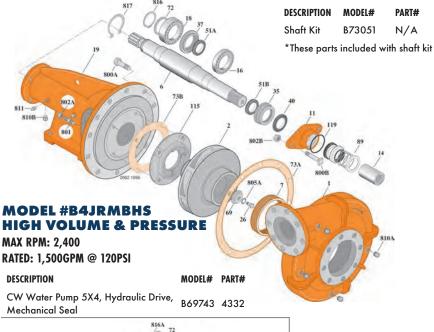
CW Water Pump, 4x3, Splined Shaft,

B69875 302001 3931 Hydraulic Drive, Mechanical Seal





INDEX	DESCRIPTION	MODEL#	PART#
1	Volute, Case CW 4X3 NPT	H01863	N/A
2	Impeller	L03038	4027
*6	Shaft	H05105	4348
7	Ring, Wearing	S04176	6179
11	Retainer, Mechanical Shaft Seal	\$11452	4531
* 14	Sleeve, Shaft	S05974	4200
* 16	Bearing, Ball	\$15604	4026
* 18	Bearing, Ball	M10184	4349
*26	Screw, Impeller ½-13x1-½"	\$23623	4533
35	Inner Bearing Cap	M10200	4534
*37	Outer Bearing Cap	M10209	4535
40	Slinger, Water	\$10964	3636
*51A	Seal, Oil	M10210	4350
*51B	Seal, Oil	\$14765	4196
*69	Washer, Impeller	S 19275	N/A
*72	Ring, Thrust	S06519	4351
73A	Gasket, Volute	S06271	4028
73B	Gasket, Balance Ring	S09943	4029
89	Seal, Mechanical Shaft	\$32693	3917
115	Ring, Balance	M05073	N/A
119	O-Ring	S26471	4537
A008	Capscrew, Hex %-11x1-1/2" (12 Req)	\$26999	N/A
800B	Bolt, Sq Head ½-13x2-¼ (2 Req)	\$23792	4539
800C	Capscrew, Hex %-16x1" (4 Req)	\$26826	4543
802	Nut, Hex 1/2-13x7/16 (2 Req)	\$23347	3639
*805A	Washer, Lock	\$23038	4197
810A	Plug, Pipe ½" NPT (4 Req)	\$23717	4541
810B	Plug, Pipe ¼" NPT	\$23715	4542
811	Fitting, Grease (2 Req)	\$23670	7855
*816	Ring, Retaining	\$23016	4352
*817	Ring, Retaining	\$23025	4353



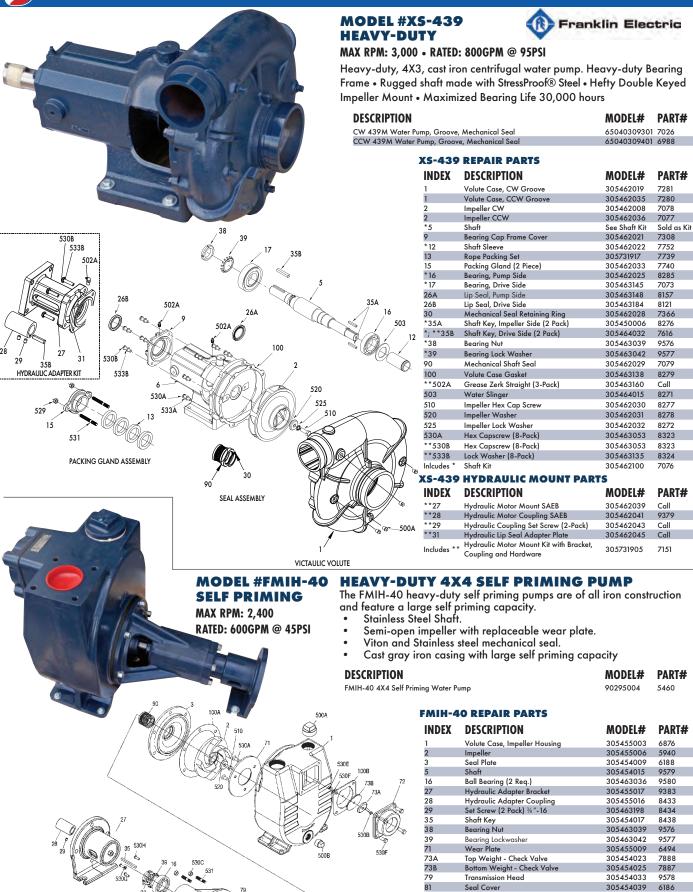
01/	King, Kelaining	323023	4333
INDEX	DESCRIPTION	MODEL#	PART#
1	Volute, Case CW 5X4 Flanged	H03843	N/A
2	Impeller CW	L05976	4423
*6	Shaft	H05105	4348
7	Ring, Wearing	S02894	4530
11	Retainer, Mechanical Seal	S11452	4531
* 14	Shaft Sleeve	S05974	4200
* 16	Bearing, Ball (Inner)	\$15604	4026
* 18	Bearing, Ball (Outer)	M10184	4349
*26	Screw, Impeller ½-13x1-½"	\$23623	4533
35	Inner Bearing Cap	M10200	4534
*37	Outer Bearing Cap	M10209	4535
40	Slinger, Water	\$10964	3636
*51A	Seal, Oil	M10210	4350
*51B	Seal, Oil	\$14765	4196
*69	Washer, Impeller	S 19275 / M 14217	7155
*72	Ring, Thrust	S06519	4351
73A	Gasket, Volute	S06271	4028
73B	Gasket, Balance Ring	S09943	4029
89	Seal, Mechanical Shaft	\$32693	3917
115	Ring, Balance	\$13591	4536
119	O-Ring	S26471	4537
800A	Capscrew, Hex %-11x1-1/2" (12 Req)	\$26999	N/A
800B	Bolt, Sq Head ½-13x2-¼ (2 Req)	S23792	4539
801	Stud, 3/6-16x1-1/2" (4 Reg)	\$23995	4540
802A	Nut, Hex 3/8-16 (4 Reg)	S23103	3008
802B	Nut, Hex ½-13x7/16 (2 Reg)	S23347	3639
*805A	Washer, Lock	S23038	4197
810A	Plug, Pipe ½" NPT (4 Reg)	S23717	4541
810B	Plug, Pipe 1/4" NPT	S23715	4542
811	Fitting, Grease (2 Reg)	\$23670	7855
*816	Ring, Retaining	\$23016	4352
*817	Ring, Retaining	\$23025	4353

	72				
2	18	37 51A 78	DESCRIPTION	MODEL#	PART#
	100	16	Shaft Kit	B73052	N/A
19		20 8051	*These parts	included w	ith shaft kit
811—29 2002 1095 802 801			22 51B 35 40	89	816B
MODEL #B6ZRHS HIGH VOLUME				810	
MAX RPM: 1,800			1)))•		
RATED: 2,000GPM @ 30PSI DESCRIPTION	MODEL#	PART#			
CW Water Pump 8X6, Hydraulic Drive, Mechanical Seal	B70374	4403	6		

INDEX	DESCRIPTION	MODEL#	PART#
1	Case, Volute CW 8X6 Flanged	H01750	N/A
2	Impeller CW	M04186	0950
*6	Shaft	L07261	N/A
* 14	UnitedBuilt Shaft Sleeve	S39242MS	9958
* 16	Bearing, Ball	\$13270	3149
* 18	Bearing, Ball	M 10218	3148
19	Frame	H05119	4544
*22	Locknut	M10221	3819
*24	Locknut, Impeller	M10220	3146
*35	Inner Bearing Cap	M10213	3004
*37	Outer Bearing Cap	M10214	N/A
40	Slinger, Water	\$12260	2174
*51A	Seal, Oil	M 10217	3153
*51B	Seal, Oil	M10216	3003
*72	Ring, Thrust	M10222	3152
73	Gasket, Volute	S05126	0954
*78	Sleeve, Spacer	M10215	N/A
89	UnitedBuilt Mechanical Seal	S32690MS	9967
801	Stud, 3/8-16x1 1/2 (8 Req)	\$23995	4540
802	Nut, Hex 3/8-16 (8Req)	\$23103	3008
*805B	Washer, Bearing, Lock	\$16181	3818
810	Pipe, Plug ½" NPT (4 Reg)	S23717	4541
811	Fitting, Grease (2 Reg)	\$23670	7855
*816A	Ring, Retaining	\$23010	3150
*816B	Ring, Retaining	\$23009	2173
*817	Ring, Retaining	\$23023	N/A
ADDE	•		•

^{*}PARTS MAY SHIP FROM FACTORY WITH SPECIAL ORDER TERMS*





90

100A

100B

520

530A

530B

530C

Mechanical Shaft Seal

Wear Plate Bolts (6 Pack) % "-16 x 34" SS

Volute Case Gasket

Flapper Valve

Flapper Bolt

Impeller Washer

Hex Nuts (6 Pack)

Set Screw (2 Pack)

305463044

305454042

305454045

305455015

305463079

305463081

305463059

305463075

9582

9584

6955

7412

7371

7886

8437

9581





MODEL A39VRMS

CAST IRON CENTRIFUGAL 4X3 MAX RPM: 2,500 RATED: 750GPM @ 65PSI

DESCRIPTION	ARMS	PART#
CW Water Pump, Grooved, Mechanical Seal	BM-1306	9907
CCW Water Pump, Grooved, Mechanical Sea	l BM-1303	9906



MODEL A39RM

CAST IRON CENTRIFUGAL 4X3

MAX RPM: 2,500

RATED: 750GPM @ 65PSI

DESCRIPTION	ARMS	PART#
CW Water Pump, Threaded, Rope Seal	BM-1085	9926
CCW Water Pump, Threaded, Rope Seal	BM-1086	9912

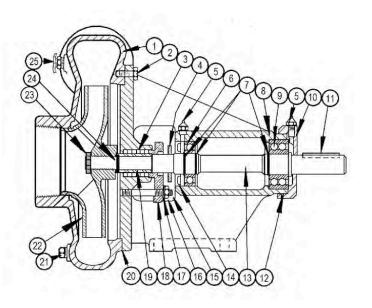
POWER HEAD ASSEMBLY

DESCRIPTION	ARMS#	PART#
CW Power Head, Mechanical Seal	BM-1306PF	9914
CCW Power Head, Mechanical Seal	BM-1303PF	9951
CW Power Head, Rope Seal	BM-1085PF	Call
CCW Power Head, Rope Seal	BM-1086PF	Call

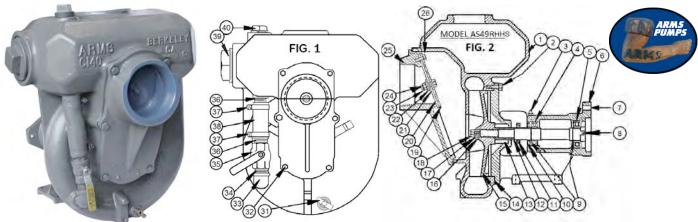
A39 REPAIR PARTS

INDEX	DESCRIPTION	ARMS#	PART#
1	Volute Case, CW Groove	B-187	Call
1	Volute Case, CCW Groove	B-188	Call
1	Volute Case CW Threaded	B-106	9942
1	Volute Case CCW Threaded	B-108	9915
2	Capscrew 3/8"-16x7/8" (8 Req.)	A-445	4819
3	Rope Packing (Set of 6)	A-281	3924
3	Mechanical Seal	A-393	9967
4	Water Slinger	A-279	9918
5	Grease Zerk, 1/8" NPT	A-327	7855
8	Pump Bracket	C-109	Call
10	Bearing Cap	A-233	Call
11	Shaft Key, 1/4" x 21/8"	A-322	6260
12	Set Screw 1-31 X 1/2"	A-447	Call
13	Shaft Kit CW	BM-1165	9913
13	Shaft Kit CCW	BM-1166	9949
14	Grease Seal	A-280	9928
15	Rope Packing Stud 3/8"	A-412	9973
16	Rope Packing Hex Nut	A-413	9922
17	Rope Packing Flat Washer	A-414	9974
18	Rope Packing Gland	A-339	9916
19	Shaft Sleeve	A-277	1004
20	Volute Case Gasket	A-268	0954
22	Impeller CW Bronze	A-198	9953
22	Impeller CCW Bronze	A-199	Call
23	Impeller Jam Nut CW	M10220	3146
23	Impeller Jam Nut CCW	US36-189SS	4379
24	Thrust Washer	A-791	9929
25	Drain Valve ¼" NPT	A-488	7626









MODEL AS49RHS

CAST IRON SELF-PRIMING PUMP 4X4

MAX RPM: 2,400

RATED: 600GPM @ 60PSI

DESCRIPTIONARMS#PART#Self-Priming, Hydraulic Drive, Mechanical SealBM-13369923



AS49RHS REPAIR PARTS

INDEX	DESCRIPTION	ARMS#	PART#
1	Volute Case	C-140	Call
2	Capscrew 3/8-16x7/8"	A-445	4819
3	Grease Fitting	A-327	7855
4	Ball Bearing	A-275	Call
5	Ball Bearing	A-333	Call
7	Retaining Ring	A-338	Call
8	Shaft Kit	BM-1283	Call
9A	Retaining Ring Ext 5100-118	A-336	Call
9B	Retaining Ring Ext 5100-156	A-337	Call
10	Grease Seal	A-280	9928
11	Water Slinger	A-279	9918
12	Shaft Sleeve	A-277	9958
13	Mechanical Seal	A-393	Call
14	Volute Case Gasket	A-268	0954
15	Impeller Open Face	A-419	9963
16	Impeller Washer	A-278	Call
17	Lockwasher 3/8" Split SS	A-488	Call
18	Capscrew 3/8-16x1"	A-417	4543
19	Clackweight	A-695	Call
20	Suction Cover Gasket	B-193	Call
21	Flat Washer 3/8x2"	A-397	Call
22	Lockwasher 3/8″	A-478	Call
23	Hex Nut, 3/8-16 SS	A-434	Call
24	Capscrew 3/8-16x1" SS	A-477	Call
31	Vent Valve 1/4" NPT	A-326	7626
35	Ball Valve Brass ¾" FNPT	A-469	1511

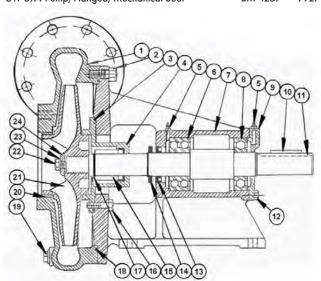
MODEL A413RMS

CAST IRON CENTRIFUGAL 5X4 • 13" IMPELLER • HIGH PRESSURE

MAX RPM: 2,400

RATED:1,200GPM @ 135PSI

DESCRIPTION	ARMS#	PART#
CW 5X4 Pump Flanged Mechanical Seal	BM-1257	9927



A413 REPAIR PARTS

INDEX	DESCRIPTION	ARMS#	PART#
1	Volute Case	A-569	Call
2	Cap Screw 5/8"	A-576	Call
3	Balance Gasket	A-552	Call
4	Seal Housing	A-556	Call
5	Grease Fitting	A-327	7855
6	Ball Bearing, Pully End	A-283	Call
8	Ball Bearing, Pump End	A-286	Call
9	Bearing Cap	A-264	Call
10	Key, ½" x 2-½"	A-566	Call
11	Shaft Kit CW	BM-1356	Call
12	Cap Screw ½-20x5/8"	A-435	Call
13	Grease Seal	A-285	Call
14	Slinger Ring	A-296	Call
15	Mechanical Seal	A-554	Call
16	Capscrew 3/8"	A-575	Call
17	Retaining Ring	A-509	Call
18	O-Ring, Volute Case	A-553	Call
19	Pipe Plug, ½" NPT	A-555	6869
20	Wear Ring	A-573	Call
21	Impeller 13" CW	A-570	Call
22	Capscrew ½"	A-439	Call
23	Split Lockwasher ½"	A-491	Call
24	Impeller Washer	A-571	Call





AV 1100 ADJUSTABLE SPRAY KIT

UnitedBuilt

INDEX	DESCRIPTION	QTY REQ	WT/LB EACH	PART#
Α	3" Weld x Groove Nipple	1	2	1486
В	3" Groove Coupling Rigid	1	4	0697
С	1/8" Quick Exhaust Valve w/ Air Fitting	1	1	9786
D	UnitedBuilt AV1100 Air Operated Valve	1	9	8030
E	3" Groove Coupling	1	3	0687
F	UnitedBuilt BC2399 Adjustable Nozzle	1	3	3484
(A-F)	UnitedBuilt AV1100 Adj. Spray Kit		22	4038



AV 1100 SIDE SPRAY KIT

UnitedBuilt

INDEX	DESCRIPTION	QTY REQ	WT/LB EACH	PART#
Α	3" Weld x Groove Nipple	1	2	1486
В	3" Groove Coupling Rigid	1	4	0697
С	1/8" Quick Exhaust Valve w/ Air Fitting	1	1	9786
D	UnitedBuilt AV1100 Air Operated Valve	- 1	9	8030
E	3" Groove Coupling	1	3	0687
F	UnitedBuilt MP2200 Side Nozzle	-1	2	7790
(A-F)	UnitedBuilt AV1100 Side Spray Kit		21	4036



AV1100 DUCKBILL SPRAY KIT

UnitedBuilt

INDEX	DESCRIPTION	QTY REQ	WT/LB EACH	PART#
Α	3" Weld x Groove Nipple	1	2	1486
В	3" Groove Coupling Rigid	1	4	0697
С	1/8" Quick Exhaust Valve w/ Air Fitting	1	1	9786
D	UnitedBuilt AV1100 Air Operated Valve	1	9	8030
E	3" Groove Coupling	1	3	0687
F	UnitedBuilt BC2178 Flusher Nozzle	1	2	1043
F	UnitedBuilt BC2179 Side Nozzle	1	2	1045
F	UnitedBuilt BC2384 Fan Nozzle	1	2	1048
(A-F)	UnitedBuilt AV1100 Flusher Spray Kit		21	4037
(A-F)	UnitedBuilt AV1100 Side Spray Kit		21	5081
(A-F)	UnitedBuilt AV1100 Fan Spray Kit		21	4588









AV 1100 90° DUCKBILL SPRAY KIT

UnitedBuilt

Unitedbuili				
INDEX	DESCRIPTION	QTY REQ	WT/LB EACH	PART#
Α	3" Weld x Groove Nipple	1	2	1486
В	3" Groove Coupling Rigid	2	4	0697
С	1/8" Quick Exhaust Valve w/ Air Fitting	1	1	9786
D	UnitedBuilt AV1100 Air Operated Valve	1	9	8030
E	3" Groove Coupling	1	3	0687
F	3" 90° Groove Elbow	- 1	4	0677
G	UnitedBuilt BC2178 Flusher Nozzle	1	2	1043
G	UnitedBuilt BC2179 Side Nozzle	-1	2	1045
G	UnitedBuilt BC2384 Fan Nozzle	1	2	1048
(A-G)	UnitedBuilt AV1100 90° Flush Spray Kit		29	4843
(A-G)	UnitedBuilt AV1100 90° Side Spray Kit		29	4718
(A-G)	UnitedBuilt AV1100 90° Fan Spray Kit		29	5059



AV 1100 SLIP-ON FAN SPRAY KIT

UnitedBuilt

INDEX	DESCRIPTION	QTY REQ	WT/LB EACH	PART#
Α	3" Weld x Groove Nipple	1	2	1486
В	3" Groove Coupling Rigid	- 1	4	0697
С	1/8" Quick Exhaust Valve w/ Air Fitting	1	1	9786
D	UnitedBuilt AV1100 Air Operated Valve	1	9	8030
E	3" Groove Coupling	1	3	0687
F	3" Weld x Groove Nipple 41/2" Long	1	3	8442
G	BBD Slip-On Fan Nozzle	1	2	6117
(A-G)	AV1100 Slip-On Spray Kit	1	19	Call



BC2410 SPRAY HEAD VALVE KIT

UnitedBuilt

	QTY REQ	WT/LB EACH	PART#
ove Nipple	1	2	1486
pling Rigid	2	4	0697
Elbow	1	4	0677
410 Spray Head Valve	1	10	6204
ush-On Air Fitting	1	0.05	5547
Head Valve Kit		24	4636
	ove Nipple pling Rigid Elbow '410 Spray Head Valve 'ush-On Air Fitting Head Valve Kit	ove Nipple 1 pling Rigid 2 telbow 1 1410 Spray Head Valve 1 ush-On Air Fitting 1	ove Nipple 1 2 pling Rigid 2 4 Elbow 1 4 4(210 Spray Head Valve 1 10 ush-On Air Fitting 1 0.05

BC2410 SIDE SPRAY NOZZLE

INDEX	DESCRIPTION	WT/LB	PART#
F	BC2410 Nozzle 4½" Wide x ¼" Slot	4	1040





323 INLINE SLIP-ON FAN SPRAY KIT

INDEX	DESCRIPTION	QTY	WT/LB	PART#
		REQ	EACH	
Α	3" Weld x Groove Nipple	1	2	1486
В	3" Groove Coupling Rigid	2	4	0697
С	1/8" Quick Exhaust Valve w/ Air Fitting	1	1	9786
D	323 Inline Aluminum Air Valve	1	3	7207
E	Aluminum Elbow for BBD Slip-On Noz	1	3	7270
F	BBD Slip-On Fan Nozzle	1	2	6117
(A-F)	323 Inline Slip-On Spray Kit		19	9415



323 INLINE 90° SPRAY KIT

INDEX	DESCRIPTION	QTY REQ	WT/LB EACH	PART#
Α	3" Weld x Groove Nipple	1	2	1486
В	3" Groove Coupling Rigid	2	4	0697
C	1/8" Quick Exhaust Valve w/ Air Fitting	1	1	9786
D	323 Inline Aluminum Air Valve	1	3	7207
E	3" 90° Groove Elbow	1	4	0677
F	3" Groove Coupling	1	3	0687
G	UnitedBuilt BC2178 Flush Spray Nozzle	1	2	1043
G	UnitedBuilt BC2179 Side Spray Nozzle	-1	2	1045
G	UnitedBuilt BC2384 Fan Spray Nozzle	1	2	1048
G	UnitedBuilt BC2399 Adj Spray Nozzle	1	3	3484
(A-G)	323 Inline BC2178 Flush Spray Kit		23	9418
(A-G)	323 Inline BC2179 Side Spray Kit		23	Call
(A-G)	323 Inline BC2384 Fan Spray Kit		23	9417
(A-G)	323 Inline BC2399 Adj Spray Kit		24	9416





BC2399 ADJUSTABLE SPRAY NOZZLE

UnitedBuilt

Aluminum • 3" Groove

VT/LB	PART#
3	3484
0.6	3305
	3



BC2179 SIDE SPRAY NOZZLE

UnitedBuilt

Aluminum • 3" Groove

DESCRIPTION	WT/LB	PART#
Side Spray Nozzle, $5''$ Wide x $\frac{1}{4}''$ Slot	2	1045
The second second		
	133	
	96	
	223	
	200	
101-Y	200	

BBS FIN SIDE SPRAY NOZZLE

UnitedBuilt

Aluminum • 3" Groove • 2" Reduced Flow

DESCRIPTION	WT/LB	PART#
Fin Side Nozzle, 51/2" Wide x 5/16" Slot	3	7017



SLIP-ON ELBOW FOR BBD NOZZLE

UnitedBuilt

Aluminum • 3" Groove

DESCRIPTION	WT/LB	PART#
Slip-on Elbow for BBD Nozzle	3	7270



BC2178 FLUSHER SPRAY NOZZLE

UnitedBuilt

Aluminum • 3" Groove

DESCRIPTION	WT/LB	PART#
Flusher Nozzle, 7" Wide x 3/32" Slot	2	1043



BC2384 FAN SPRAY NOZZLE

UnitedBuilt

Aluminum • 3" Groove

DESCRIPTION	WT/LB	PART#
Fan Nozzle, 7" Wide x 1/4" Slot	2	1048



MP2200 SIDE SPRAY NOZZLE

UnitedBuilt

Aluminum • 3" Groove

DESCRIPTION	WT/LB	PART#
Side Spray Nozzle, 4" Wide x 1/4" Slot	2	7790



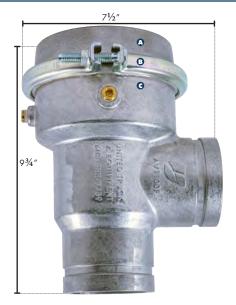
BBD SLIP-ON FAN NOZZLE

UnitedBuilt

Aluminum • Slip-On Nozzle Fits 3½" Outside Diameter Pipe

DESCRIPTION	WT/LB	PART#
Slin-On Nozzle 31/2"	3	6117





AV 1100 WATER TRUCK SPRAY VALVE

UnitedBuilt Heavy-duty, High Quality Aluminum Air to Close

Air to close water truck spray valve designed for maximized flow with minimum water hammer. Smooth flow and quick operation. Industry's most versatile and reliable water truck valve.

1/8" FNPT Air Port

 $^{1\!\!/_{\!\!4}\!"}$ FNPT Drain Ports with $^{1\!\!/_{\!\!4}\!"}$ Hex Socket Brass Plugs 3" Grooved Ends

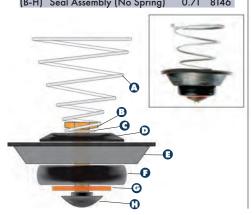
DESCRIPTION WT/LB PART# AV1100 Air to Close Spray Valve 7.74 8030

AV1100 REPAIR PARTS

INDEX	DESCRIPTION	WT/LB PART#
Α	AV1100 Valve Cap	0.95 7132
В	AV1100 Cap Clamp	0.89 1038
С	AV1100 Valve Body	4.85 8145

AV 1100 SEAL KIT

INDEX	DESCRIPTION	WT/LB	PART#
Α	Spring	0.40	8212
В	Bolt	0.07	6690
С	Stainless Steel Washer 5/8"	0.03	5736
D	Retainer Top	0.10	8140
E	Diaphragm Center Punched	0.24	3106
F	Retainer Bottom	0.16	8141
G	Washer Seat	0.08	8143
Н	Nut	0.04	8142
(A-H)	Seal Assembly with Spring	1.16	8147
(R_H)	Seal Assembly (No Spring)	0.71	8146



Diaphragm Outside Diameter 61/4"



DISCONTINUED

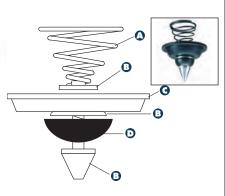
AV9030 WATER TRUCK SPRAY VALVE

UnitedBuilt

AV9030 Valve No Longer Available. Seal Kits Are Available Below.

AV9030 SEAL KIT

INDEX	DESCRIPTION	WT/LB	PART#
Α	Spring	0.34	1056
В	Aluminum Assembly	0.51	6720
С	Diaphragm Center Punched	0.24	3106
D	Half Ball Seat	0.21	4116
(A-D)	Seal Assembly with Spring	1.20	4373
(B-D)	Seal Assembly (No Spring)	0.98	7191



Diaphragm Outside Diameter 61/4"



BC2410 WATER TRUCK SPRAY HEAD VALVE

UnitedBuilt

Heavy-duty, High Quality Aluminum Air to Open

Heavy-duty spray head valve air to open with 3" groove connection. Integrated valve and spray nozzle design. Manually adjustable spray patten.

1/8" FNPT Air Port

3" Grooved End for Intake

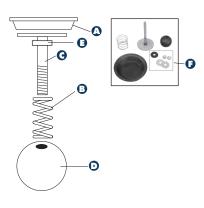
DESCRIPTION	WT/LB PART#
BC2410 Air to Open Spray Head Valve with Adjustable Band	9.37 6204

BC2410 REPAIR PARTS

IND	EX DESCRIPTION	WT/LB	PART#
Α	BC2410 Valve Cap	0.95	7132
В	BC2410 Cap Clamp	0.89	1038
C	BC2410 Adj. Spray Band	0.74	1074
D	BC2410 Valve Body	4.89	7226

BC2410 SEAL KIT

INDEX	DESCRIPTION	WT/LB	PART#
Α	Diaphragm	0.25	1076
В	Spring	0.20	1079
C	Stainless Steel Stem	1	1394
D	Ball Seat	0.50	1073
E	Rubber Washer	0.02	5008
F	71 A Fastener Kit	0.20	3265
(A-F)	BC2410 Seal Kit w/ Spring Unassembled	1.70	4065



Diaphragm Outside Diameter 61/4"





BC2403 SPRAY HEAD VALVE

UnitedBuilt

Heavy-duty Aluminum • Air to Close Interchanges with MEGA 300198

INDEX	DESCRIPTION	WT/LB	PART#
	BC2403 SHV w/ O-Ring	11.29	5826
Α	Top Cap	4.08	5928
В	Valve Body	4.09	5929
С	Spray Band	1.22	5930
D	Adjustment Knob	0.16	5948
E	Mounting O-Ring	0.09	4009
F	1/4" Quick Exhaust Valve	0.33	6100
G	1/4" Brass Nipple	0.05	9851
Н	Mounting Plate	1.73	5945
(A-H)	BC2403 Spray Head Valve Kit	23.09	6016



BC2403H SPRAY HEAD VALVE

UnitedBuilt

Heavy-duty Aluminum • Hydraulic Cylinder Interchanges with MEGA 025610

INDEX	DESCRIPTION	WT/LB	PART#
	BC2403H Hyd SHV w/ O-Ring	15	7690
Α	Top Cap	4	CALL
В	Valve Body	4.09	5929
С	Spray Band	1.22	5930
D	Adjustment Knob	0.16	5948
E	Mounting O-Ring	0.09	4009
Н	Mounting Plate	1.73	5945
I	Hydraulic Cylinder	1.80	7685
	Cylinder Mounting Nut (Not Shown)	0.25	<i>7</i> 686



Internal repair kit compatible with both air and hydraulic BC2403

BC2403 & BC2403H SEAL KIT

Interchanges with MEGA 300409

DESCRIPTION	WT/LB	PART#
Spring	0.44	4008
Diaphragm	0.28	1077
Assembled Seal Kit w/ Spring	1.64	6017

BC2403H HYDRAULIC CYLINDER MOUNTING HARDWARE

DESCRIPTION	WT/LB PART#	ŧ
Jam Not (Not Shown)	0.03 3266	
Hex Nut (Not Shown)	0.04 3267	



INLINE VALVE AV5293

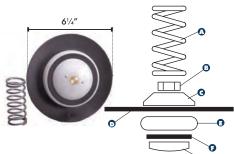
UnitedBuilt

Heavy-duty Cast Iron • Air to Close
Interchangable with Cla-Val 3"
CONNECTION DESCRIPTION WT

	5154Kii 1161K	, 25	1741177
3" FNPT	Inline Valve	29	5293
3" Groove	Inline Valve w/ (2) 3" MNPTxGRV Adapaters	32.68	7568
	Valve Cap Cast Iron	7.20	5374
	(1/#		

WT/IR

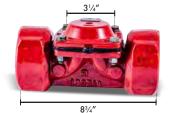
PART#



AV5293 SEAL KIT

Seal Kit for AV5293 & Cla-Val 3" Inline Valves

INDEX	DESCRIPTION	WT/LB	PART#
Α	Spring	0.12	1570
В	Thread Stem	0.07	6690
C	Top Retainer	0.24	6617
D	Diaphragm	0.19	1578
E	Bottom Retainer	0.20	6615
F	Gasket	0.12	6618
G	Nut	0.10	6616
(A-G)	Seal Kit Assembly with Spring	1 16	2745



INLINE VALVE 323 NETAFIM

Cast Iron • Air to Close • Female NPT
CONNECTION DESCRIPTION WT/LB PART#

3" FNPT	Inline Valve 323 3" FNPT	11.43	4525	
	323 Valve Cap Cast Iron	1.98	5046	



INLINE VALVE CLA-VAL

 Cast Iron • Air to Close • Heavy-duty

 DESCRIPTION
 A mcHss
 WT/LB
 PART#

 Inline Valve 2" FNPT
 3 3/8"
 6 ½"
 10.09
 4602

 Inline Valve 2 ½" FNPT
 4 ½"
 7 ½"
 19.02
 5665

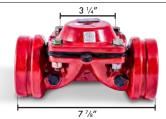
 Inline Valve 3" FNPT
 5"
 8"
 26.46
 7927





CLA-VAL SEAL KITS

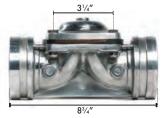
_					
2		? ½" Cla-Val DESCRIPTION	A	WT/LB	PART#
	SIZE		INCHES		
	2"	Spring		0.05	5032
	2"	Seal Kit (No Spring)	41/2"	0.41	4955
	2 1/2"	Spring		0.12	1570
	2 1/2"	Seal Kit (No Spring)	51/2"	0.74	5591
	2 1/2"	Seal Kit with Spring	51/2"	0.86	6025



INLINE VALVE 323 NETAFIM

Cast Iron • Air to Close • Grooved
CONNECTION DESCRIPTION WT/LB PART

3" Groove Inline Valve 323 3" Groove 8.89 4767 323 Valve Cap Cast Iron 1.98 5046



INLINE VALVE 323

Aluminum • Air to Close • Grooved
CONNECTION DESCRIPTION WT/LB PART#
3" Groove Inline Valve 323 Groove 3.15 7207



323 SEAL KIT

INDEX	DESCRIPTION	WT/LB	PART#
Α	323 Diaphragm	0.22	5590
В	Button Seat	0.01	3883
С	Spring	0.05	1588
(A-C)	323 Seal Kit	0.30	6535



SIDEWINDER 8494 CANNON KITS REMOTE CONTROL ELKHART BRASS 2" Female NPT Inlet

Available in both 12V & 24V 5000-24 Stream to Fog Nozzle 350GPM Vertical Travel: 135°

Horizontal Travel: 180° or 334°

12V

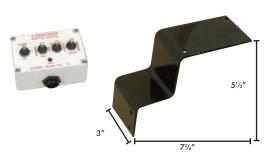
VDC	DESCRIPTION	WT/LB	PART#
12V	Sidewinder 8494 12V (no nozzle or control)	18	5247
12V	Sidewinder 8494 12V w/ Nozzle & Toggle Control	21	3516
12V	Sidewinder 8494 12V w/ Nozzle & Joystick Control	25	4553

24V

VDC	DESCRIPTION	WT/LB	PART#
24V	Sidewinder 8494 24V (no nozzle or control)	18	7309
24V	Sidewinder 8494 24V w/ Nozzle & Toggle Control	21	6123
24V	Sidewinder 8494 24V w / Nozzle & Joystick Control	25	6115

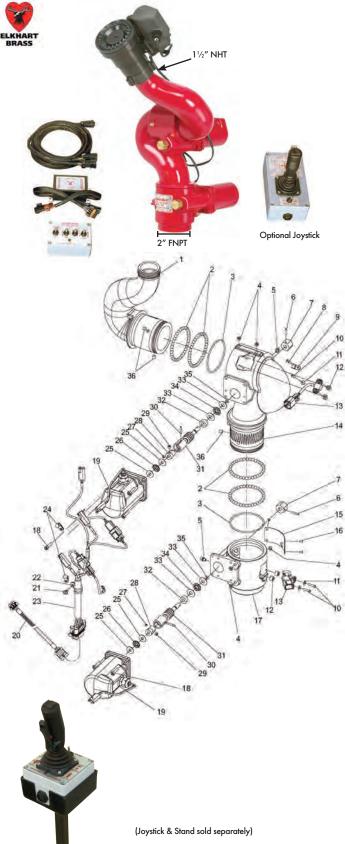
REPAIR PARTS

INDEX	DESCRIPTION	MODEL#	QTY REQUIRED	PART#
1	8494 Outlet Body	17908001	1	6299
2	Ball Stainless Steel 1/4" (36 Per Race)	15027000	144	6464
3	O-Ring	57502000	2	6153
4	Set Screw	63687000	5	7534
6	Roll Pin	51248000	2	6484
7	Over-Ride Nut Brass	47652001	2	6485
8	Screw	65140000	1	7747
10	Screws	65139000	3	7748
11	Washer	71176000	3	7945
13	Position Sensor	65104000	2	7306
14	8494 Inlet Body	18219001	1	7484
16	Drive Screw Stainless Steel	61215100	4	9332
17	8494 Base 2" FNPT	17975001	1	7956
18	Cap Screw Stainless Steel	64072000	8	6630
19	Motor Assy, 12V Slow (Vertical)	81119001	1	5061
19	Motor Assy, 12V Fast (Horizontal)	81147001	1	5030
19	Motor Assy, 24V Slow (Vertical)	81207001	1	6891
19	Motor Assy, 24V Fast (Horizontal)	81240001	1	<i>7</i> 501
20	Quick Connect Harness Extension 5'	36791200	1	6945
23	Monitor Control Harness	36833100	1	7149
25	Thrust Washer	71515000	4	7235
26	Thrust Bearing	17701000	2	6492
27	Set Screw Stainless Steel	65201000	2	7234
28	Coupling	20991001	2	6491
29	Set Screw Stainless Steel	65219000	2	7242
30	Solid Pin	51071000	2	7239
31	Worm Shaft Stainless Steel	63935901	2	7264
32	Spacer	63601001	2	7240
33	Thrust Washer	71516000	4	6486
34	Thrust Bearing	17702000	2	6487
35	O-Ring	57380000	2	7241
36	Magnet	46054000	4	7231



TOGGLE CONTROL (Toggle Box & Bracket sold separately)

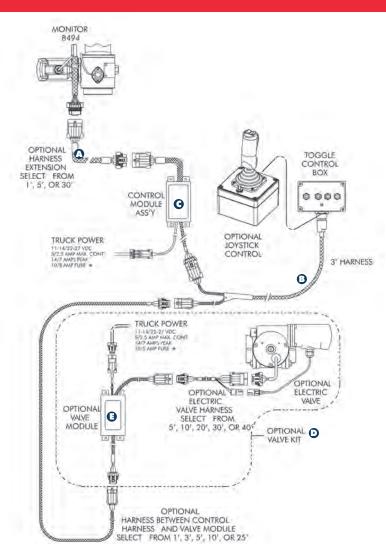
DESCRIPTION	MODEL#	WT/LB	PART#
Sidewinder 8494 Toggle Control Box	81122001	2	4712
Toggle Box Bracket			6924



JOYSTICK CONTROL

DESCRIPTION	MODEL#	WT/LB	PART#
Sidewinder 8494 Joystick Control	81172001	6	4713
Joystick Stand		4	7295





ONE 10 AMP FUSE IF BOTH MONIT OR AND VALVE ARE USED. OTHERWISE, ONE 5 AMP FUSE IS REQUIRED.



8494 NOZZLE ASSEMBLIES 8494 NOZZLE

350 GPM

VDC DESCRIPTION MODEL# WT/LB PART# 12V Nozzle Assembly 12V 5000-24 4 24V Nozzle Assembly 24V 5000-24 4 4987

DESCRIPTION MODEL# WT/LB PART# 1 1/2" NHT Tip 187A 0.5 4488



5000-24 NOZZLE ACTUATORS 8494 MOTOR ASSEMBLIES

VDC	DESCRIPTION	MODEL#	WT/LB	PART#
12 V	5000-24 Actuator 12V	81186001	2	6631
24V	5000-24 Actuator 24V	81227001	2	8217



VDC	DESCRIPTION	MODEL#	WT/LB	PART#
12V	Slow Vertical 12V	81119001	2	5061
12V	Fast Horizontal 12V	81147000	2	5030
24V	Slow Vertical 24V	8120700	2	6891
24V	Fast Horizontal 24V	8124001	2	<i>7</i> 501





@8494 EXTENSION HARNESS

MONITOR TO CONTROL MODULE

LENGTH DESCRIPTION MODEL# WT/LB PART# 36791200 1.25 6945 Harness Extension 30' Harness Extension 36791000 4 5707



08494 CONTROL HARNESS

CONTROL MODULE TO TOGGLE BOX **OR JOYSTICK**

LENGTH	DESCRIPTION	MODEL#	WT/LB	PART#
12'	Control Harness	36787000	2	5332
50'	Control Harness	36795000	8	6135



98494 CONTROL MODULE

DESCRIPTION Control Module

MODEL# WT/LB PART# 81713000 5808 1.5



08494 WATER VALVE

REMOTE CONTROL

VDC DESCRIPTION MODEL# PART# Valve Kit 12V 81181001 24V Valve Kit 24V 81298001 7522



9 WATER VALVE CONTROL MODULE

MODEL# WT/LB PART# VDC DESCRIPTION 12V Control Module 12V 81196000



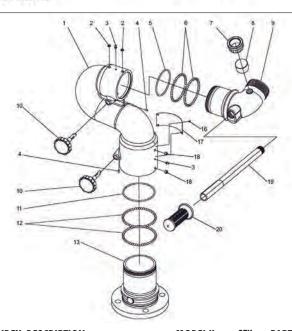


POWER & GROUND LEADS TO BE CONNECTED BY CUSTOMER



VULCAN 8500-02 CANNON KITS MANUAL OPERATED ELKHART BRASS

2" Flance			
3″ Flange			
DESCRIPTION	WT/LB	PART#	
Vulcan 8500-02 (no nozzle)	22	5809	
Vulcan 8500-02 w/ Brass Cone Nozzle	25	6550	
A. 2 ½" Female NST Brass Cone Nozzle	2.40	1066	
B 2 1/2" Female NST Brass Fog Nozzle	7.40	1069	



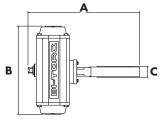
IS HARNESS SUPPLIED

BY ELKHART BRASS

INDEX	DESCRIPTION	MODEL#	QTY REQUIRED	PART#
2	Set Screw	63674000	2	6865
2 5	O-Ring	57312000	1	7777
6	¼" Ball Bearing Stainless Steel	15027000	2×46	6464
7	Cover - Pressure Gauge	23544000	1	7921
8	Pressure Gauge	39130000	1	7095
10	Lock Knob	42034001	2	<i>7717</i>
11	O-Ring	57316000	1	7347
12	1/4" Ball Bearing Stainless Steel	15027000	2 x 51	6464
13	Vulcan Base 3" Flange	15616001	1	6103
16	Drive Screw	61215100	4	9332
18	Set Screw	63688000	2	6866
19	Handle	65456001	1	9432
20	Handle Grip	33645000	1	7716





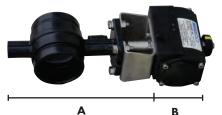


WAFER BUTTERFLY VALVE AIR OPERATED 2-WAY

Stainless Steel Stem & Disc

BI-T	ORG)

SIZE	Α	В	C	WT/LB	PART#
	INCHES	INCHES	INCHES		
2 1/2"	14.38	6.38	1.81	12	9547
3"	14.83	6.38	1.81	12	9157
4"	16.32	6.38	2.05	16	9158
6"	19.43	9.35	2.20	26	9159



GROOVE BUTTERFLY VALVE AIR OPERATED 2-WAY

NIBCO

SIZE	Α	В	C	WT/LB	PART#
	INCHES	INCHES	INCHES		
2 ½"	8.66	3.56	5.75	10	4868
3″	9.16	3.56	5.75	12	3379
4"	10.92	3.56	5.75	15	4447



AIR ACTUATOR AIR OPERATED 2-WAY

For Nibco Grooved Buttefly Valves 21/2" - 4" NIBCO

FOR NIBCO BUTTERFLY VALVE SIZE	C	WT/LB	PART#
	INCHES		
2" - 4" Groove Butterfly Valve	5.75	4	6341



BRACKET & COUPLING KIT

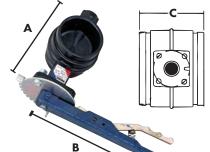
For Nibco Grooved Butterfly Valves 21/2", 3" & 4"

FOR NIBCO BUTTERFLY VALVE SIZE	WT/LB	PART#
2½" - 3" Groove Butterfly Valve	1	6343
4" Groove Butterfly Valve	1	8177



BALL VALVE

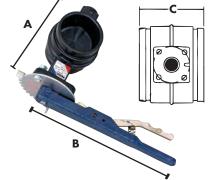
Brass		
SIZE	WT/LB	PART#
1/4"	0.35	3377
1/2"	0.75	1510
3/4"	0.75	1511
1"	1	1737
1 ½"	3	1514
2"	4	1516
2 ½"	5	1518
3"	8	2243
A"	11	3526



WAFER BUTTERFLY VALVE

MILWAUKEE

SIZE	A INCHES	B INCHES	WT/LB	PART#
2"	8.5	9.5	9	1521
2 ½"	9.25	9.5	11	4317
3"	10	9.5	11	2657
4"	11.25	11.5	14	1525
5"	12.5	11.5	18	3495
6"	13.5	11.5	21	2686



GROOVE BUTTERFLY VALVE

NIBCO

SIZE	A INCHES	B	C INCHES	WT/LB	PART#
2"	8.45	9.5	3.33	6	5684
2 ½"	8.66	9.5	3.85	7	4490
3"	9.16	9.5	3.85	9	4691
4"	10.96	11.5	4.56	13	4825
5"	11.91	11.5	5.86	18	2701



GATE VALVE

Brass		
SIZE	WT/LB	PART#
1/2"	0.75	5796
3/4"	1	6633
1"	1.25	1544
1 ½"	2	1546
2"	4	1547
2 ½"	6	2644
3"	9	1549



OUT CAP

Schedule 40 Black Steel 3" Groove by Female NPT

DESCRIPTION	WT/LB	PART#
3" Groove by ¾" Female NPT	1.50	6612
3" Groove by 1 ½" Female NPT	1.50	7337



HOSE BIBB

Brass		
SIZE	WT/LB	PART#
3/4" MNPT x 3/4" MGHT	0.75	1552





CONTROL CONSOLE UNITEDBUILT

Spray System Control Console Includes Standard OFF/ON Labels See Label Options to the Right

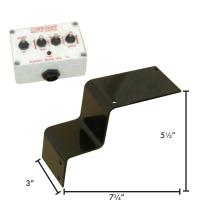
DESCRIPTION	HEIGHT	WT/LB	PART#
2 Switch Air Console	145/16"	3.5	3944
3 Switch Air Console	14 5/16"	4	2728
4 Switch Air Console	14 5/16"	4.5	2695
5 Switch Air Console	14 5/16"	5	2729
6 Switch Air Console	145/16"	5.5	2725
7 Switch Air Console	14 5/16"	6.5	4050
8 Switch Air Console	14 5/16"	7	4051



CONSOLE EXTENSION BRACKET

Mounts to UnitedBuilt Control Console

DESCRIPTION	WT/LB	PART#
Mount Holes for Switches C(1494), D(3375), or On/Off Switch A(7634)	1.09	8270



(Toggle Box & Bracket sold separately)

TOGGLE BOX BRACKET

DESCRIPTION	WT/LB	PART#
Toggle Box Bracket	1.5	6924



AIR SWITCHES

INDEX	DESCRIPTION	WT/LB	PART#
Α	1-Way Toggle Lever	0.40	1493
В	2-Way Toggle Lever	0.30	6029
C	2-Way Toggle Lever	0.60	1494
D	2-Way Toggle Push/Pull	0.40	3375
Е	2-Way Momentary	0.30	1492

LABELS FOR SWITCHES

SCRIPTION	PART#
bels for Switches	2669

LABEL OPTIONS (OFF/ON)

- Right Front
- Left Front Front Center
- Right Side
- Rear Center Left Side Front Bar
- Right Rear
- Rear Bar

Monitor

- Left Rear
 - **Gravity Drop**

LABEL OPTIONS (ON/OFF)

- Right Front Left Side
- Left Front
- Right Rear
- Right Side
- Left Rear







(Joystick & Stand sold separately)

JOYSTICK STAND

O I D I I I I I I I I I I I I I I I I I			
DESCRIPTION	HEIGHT	WT/LB	PART#
Joystick Stand	13.5"	3.78	7295





AIR REGULATOR & BRACKET ADJUSTABLE

INDE)	DESCRIPTION	WT/LB	PART#
Α	Air Regulator, ¼" FNPT Ports	0.65	1597
В	Regulator Bracket	0.10	2885



ELECTRIC OVER AIR SOLENOID

INDEX	(DESCRIPTION	PART#
Α	Electric Over Air Solenoid 12V	3028
В	Solenoid Valve 12V	9740
В	Solenoid Valve 24V	9802





ELECTRIC SWITCHES

INDEX	DESCRIPTION	WT/LB	PART#
Α	Red LED On/Off Switch 12V	0.09	7634
В	PTO Switch	0.05	0898



AIR CYLINDER

STROKE	THROW	WT/LB	PART#
6"	13 3/8 - 6"	2.53	1500
10"	17 1/8 - 10"	3.24	3904





90°SWIVEL

Airline Push On Fitting

AIR HOSE MNPT HEX SIZE WT/LB MODEL# PART# 12 M M 0.04 P6520 5547



STRAIGHT

Airline Push On Fitting

AIR HOSE MNPT HEX SIZE WT/LB MODEL# PART# 12 M M 0.02 P6510 5546



BRANCH TEE

Airline Push On Fitting AIR HOSE MNPT HEX SIZE

WT/LB MODEL# PART# 12 M M 0.08 P6430 5548



RUN TEE

Airline Push On Fitting AIR HOSE MNPT HEX SIZE

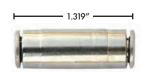
WT/LB MODEL# PART# 1/8" 12 M M 0.07 P6440 5545



UNION TEE

Airline Push On Fitting

AIR HOSE WT/LB MODEL# PART# 1/4" 0.05 6540 7160



UNION

Airline Push On Fitting AIR HOSE

WT/LB MODEL# PART# 0.05 6580 5894



HEX NIPPLE

Brass Fitting

MNPT HEX SIZE WT/LB MODEL# PART# 0.96" 7/16" 0.02 3325X2 7643 0.05 3325X4 9851 1.38"



HEX NIPPLE REDUCER

Brass Fitting

MNPT WT/LB **HEX SIZE** MODEL# PART# 1/8"x1/4" 9/16" 0.05 3325X4X2 7644



HEX BUSHING

Brass Fitting

FNPT MNPT HEX SIZE WT/LB MODEL# PART# 1/4" 5/8" 0.05 3220X4X2 7642



HEX SOCKET PLUG

Brass Fitting

MNPT **SOCKET HEX** WT/LB MODEL# PART# 3153X2 7638 1/8" 3/16" 0.01 1/4" 3153X4 7639 0.03



DRAIN VALVE

External Seat

MNPT **HEX SIZE** 9/16" 1/4"

WT/LB MODEL# 0.04 145





THREAD SEALANT COMPOUND

Blue Monster

DESCRIPTION PTFE Sealant Compound 8oz

PART# 9757





AIRLINE HOSE

Airline Synflex Kits

AIRHOSE LENGTH WT/LB PART# 1/4" 25' 0.30 4255 1/4" 100' 1.25 0487



QUICK EXHAUST VALVE

Increases Air Valve Efficiency

FNPT WT/LB PART# 1/8" 0.25 4520 0.40 6100



QUICK EXHAUST ASSEMBLY

Increases Air Valve Efficiency DESCRIPTION

WT/LB PART# 1/8" Quick Exhaust Assembly 0.25 9786



PRESSURE PROTECTION VALVE

Chelsea Parker 378414

FNPT LENGTH NOMINAL PSI WT/LB 1/8" x 1/4" 2 3/8" 70 0.35 6673



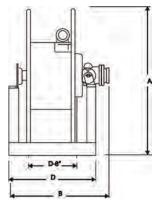
THREAD SEALANT TAPE

Blue Monster

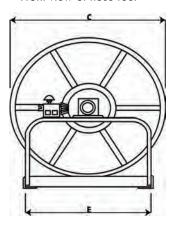
DESCRIPTION WT/LB PART# PTFE Sealant Tape 3/4" x 1429' 9756 0.25







Front view of hose reel



Side view of hose reel



PILLOW BLOCK

DESCRIPTION
Pillow Block 3/4"

MODEL# PART# 50-8A 8424



Hose sold separately

Hose sold separately

1" & 11/2" MANUAL HOSE REELS

Heavy-duty Hose Reel

HOSE SIZE	HOSE LENGTH	Α	В	C	D	E	MODEL#	PART#	
		HEIGHT	OVERALL WIDTH	OVERALL DEPTH	FRAME WIDTH	FRAME DEPTH			
1"	50′	231/2"	15"	22"	13"	20"	C10050-22	8300	
11/2"	50′	231/2"	19"	22"	17"	20"	C15050-22	8269	
11/2"	100'	291/2"	24"	28"	22"	20"	C15100-28	8301	

11/2" ELECTRIC HOSE REELS

Heavy-duty Hose Reel

HOSE SIZE	HOSE LENGTH	A	В	C	D	E	MODEL#	PART#
		HEIGHT	OVERALL WIDTH	OVERALL DEPTH	FRAME WIDTH	FRAME DEPTH		
11/2"	50′	231/2"	21"	22"	16"	20"	E15050-22	8302
11/2"	100′	291/2"	26"	28"	21"	20"	E15100-28	8303



SWIVEL JOINT ASSEMBLY

For 11/2" Hose Reel

DESCRIPTION Swivel Joint Assembly MODEL# PART# 29-15D

8422



SWIVEL JOINT HOUSING

For 11/2" Hose Reel • Seal Kit Sold Separately DESCRIPTION MODEL# PART#

Swivel Joint Housing

29-2 9127



SWIVEL REPAIR KIT

For 11/2" Hose Reel

INDEX DESCRIPTION MODEL# PART# Kit: Bearings, O-Rings & Gasket 150-23K 8423 Gasket Seal Only 150-2 8505



MOTOR 12 VOLT

DESCRIPTION 1/3 HP Motor 12V

MODEL# 23-12S



CRANK HOUSING

DESCRIPTION Crank Housing Assembly MODEL# PART# 40-1AG 8425



DESCRIPTION



Crank Handle 8"



58-1A

CIRCUIT BREAKER

DESCRIPTION Cole-Hersee Circuit Breaker

20878 3880

MODEL#

PART#



PUSH BUTTON SWITCH

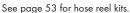
DESCRIPTION Cole-Hersee Sealed Push Button MODEL# PART# 20876 3882

8426

SOLENOID DESCRIPTION

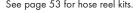
Cole-Hersee Solenoid

MODEL# PART# 20877 3881

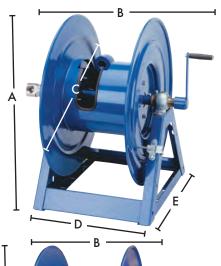


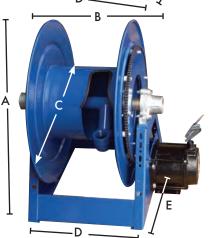


INDEX DESCRIPTION MODEL# PART# Brake Knob with Spring & Stud 8427 8428 Brake Stud 41-2 8429 **Brake Spring** 72-3











MODEL# PART#

SWIVEL For 1" 1175-6 Hose Reel

DESCRIPTION 90 Swivel 1" 1175-6 Reel

15257-1 5104

COX	REELS	MOTOR	12	VOLT

MODEL# DESCRIPTION PART# 1/2 HP Motor 12V 15223-1 5213



ELECTRIC REEL PARTS

INDI	EX DESCRIPTION	MODEL#	PART#
Α	Cole-Hersee Circuit Breaker	20878	3880
В	Cole-Hersee Solenoid	20877	3881
С	Cole-Hersee Sealed Button	20876	3882

See page 53 for hose reel kits.



Hose sold separately

" & 11/2" MANUAL HOSE REELS

HOSE SIZE	HOSE LENGTH	A HEIGHT	B OVERALL WIDTH	C OVERALL DEPTH	D FRAME WIDTH	E FRAME DEPTH	WT/LB	MODEL#	PART#
1″	50′	261/4"	243/4"	24"	12 ⁷ /8"	201/8"	67	1175-6-50	3998
1"	100′	261/4"	28¾"	24"	16 ⁷ /8"	201/8"	67	1175-6-100	3997
11/2"	50′	25"	241/16"	24"	17¹/16″	223/16"	76	1185-1124	6329
11/2"	100′	25"	3411/16"	24"	241/16"	22 ³ /16"	94	1185-2024	6336

1" & 11/2" ELECTRIC HOSE REELS

HOS	E SIZE	HOSE LENGTH	Α	В	C	D	E	WT/LB	MODEL#	PART#
			HEIGHT	OVERALL WIDTH	OVERALL DEPTH	FRAME WIDTH	FRAME DEPTH			
1	"	50′	261/4"	203/8"	24"	12 ⁷ /8"	201/8"	80	1175-6-50E	6332
1	"	100′	261/4"	24 ³ / ₈ "	24"	16 ⁷ /8"	201/8"	83	1175-6-100E	6953
1	1/2"	50′	25"	26 ³ /16"	24"	17 ¹ /16"	22 ³ /16"	89	1185-1124E	6471
1	1/2"	100′	25"	3411/16"	24"	241/16"	223/16"	112	1185-2024E	6735







For 11/2" 1185 Hose Reel

INDE	X DESCRIPTION	MODEL#	PART#
Α	Inline Swivel 1185 Reel	20288-2	9499
В	Inline Swivel (2014 Rev. D) 1185	8970-2	9516
С	Retaining Plate for 8970-2	8956	Call



SWIVEL O-RING KIT

Hose sold separately

For 11/2" 1185 Hose Reel

DESCRIPTION	MODEL#	PART:
Swivel O-Ring Kit	8970-2	9475



External Snap Ring

MODEL#	PART#
20266	4039
20252	5025
	20266





BEARING ASSEMBLY

INDEX DESCRIPTION			MODEL#	PART#
	Α	Bearing Assembly	8166	6818
	В	Bearing Asy for 8970 (2014 Rev D)	8954	9749



LOCK PIN

DESCRIPTION Spring-loaded Locking Pin

MODEL#	PART:
20843	3543

COXREELS



BEARING WASHER

INDE	INDEX DESCRIPTION		PART#
Α	Bearing Washer	20264	4040
В	Thrust Washer (2014 Rev D)	8960-1	9748
Α	Bearing Washer (2014 Rev D)	8960	9750



AXLE ASSEMBLY

For 1½" x 50' Hose Reel DESCRIPTION Axle Assembly Axle Assembly (2014 Rev. D)

MODEL# PART# 8169-11.5 7377 8962-11.5 9905



HOSE STOP

DESCRIPTION Hose Stop for 1.5" Hose





CRANK HANDLE

For 11/2" 1185 Hose Reel DESCRIPTION

Crank Handle

MODEL# PART# 8191 7301





Shown: 3" MNPT x Female Cam Lock



SUCTION FILL HOSE

SIZE	CONNECTION	LENGTH	WT/LB	PART#
3"	MNPT x Female Camlock	10'	16	9474
3"	MNPT x Male Camlock	10'	16	9444
3"	MNPT x Male Camlock	14'	21	8407
3"	MNPT x Female Camlock	15′	22	4058
3"	MNPT x Female Camlock	20'	27	2032
3"	MNPT x Female Camlock	25'	31	4769
3"	MNPT x Female Camlock	30'	36	5784



- 1	В	R,	4:	S	5

SIZE	THREAD TYPE	WT/LB	PART#
11/2"	NPT	i	2852
11/2"	NST	1	5330
2"	NPT	2	4486
21/2"	NST	3	1066



SIZE	WT/LB	PART#
21/4"	0.15	4247
21/2"	0.15	5370
23/4"	0.15	5371
3″	0.15	4608
31/2"	0.15	4620
41/2"	0.18	5506



(from stream to 120°)



BRASS

From Stream to 120°

SIZE	THREAD TYPE	WT/LB	PART#
11/2"	NPT	1.55	1071
11/2"	NST	1.15	4800
2"	NPT	2.90	3852
01///	LICT	7.50	10/0



DOU	BLE	BOLT	CLAMP
-----	-----	-------------	--------------

SIZE	WT/LB	PART#
3"	1.95	4334
31/2"	2.20	4335
41/2"	2.20	5123



HOSE REEL HOSE

SIZE	LENGTH	WT/LB	PART#
1"	50′	29	3800
1"	100′	54	3257
11/2"	50′	42	0744
11/2"	100'	91	0743



21/2" Female NST Swivel x Female Camloc

PUNCH CLAMP

Requires Punch Clamp Tool

SIZE	WT/LB	PART#
1/2"	0.05	6858
1 1/2"	0.10	3127
2"	0.12	0610
3"	0.15	0611
31/6"	0.17	0.612

WT/LB

PART# 5503



SIZE	LENGTH	WT/LB	PART#	
21/2"	15'	8	5199	
2½"	25′	12.90	3932	
21/2"	50'	22 60	5864	



11/2" MNPT x 11/2 MNPT

PLASTIC			
SIZE	THREAD TYPE	WT/LB	PART#
1"	NPT	0.55	3130
1"	NST	0.55	5626
11/2"	NPT	0.55	1068
1½"	NST	0.55	3370
2"	NPT	1.25	5121
Bracket for 1" Plas	tic Nozzle	0.80	7098
Bracket for 1½" Pl	astic Nozzle	0.80	7097



DESCRIPTION

Punch Clamp Binding Tool

ZE	THREAD TYPE	WI/LB	PARI#
"	NPT	0.55	3130
"	NST	0.55	5626
1/2"	NPT	0.55	1068
1/2"	NST	0.55	3370
"	NPT	1.25	5121
racket for 1" Pla	stic Nozzle	0.80	7098
racket for 1½" P	lastic Nozzle	0.80	7097

SUCTION HOSE STRAINER

SIZE	LENGTH	WIDTH	WT/LB	PART#
3″	5"	37/8"	3	1084
3″	9 5/8″	4"	2	1085
4"	53/16"	67/8"	3	1086

SUCTION HOSE FOOT VALVE

SIZE	WT/LB	PART#
21/2"	7	8288
3"	8	1535
4"	18	1536

JET FEED HOSE

SIZE	LENGTH	WT/LB	PART#
11/2"	25′	5.80	2981
11/2"	50′	10	2800
11/2"	100'	19.35	5342
2" 2"	25'	8	8022
2"	50"	15	5741





GROOVE COUPLING GASKET

Fruvlok		
SIZE	WT/LB	PART#
1"	0.05	4521
11/2"	0.06	3600
2"	0.08	1729
21/2"	0.09	0700
3″	0.10	0701
4"	0.21	0702
5"	0.26	5056
6"	0.30	1959



NST SWIVEL GASKET SIZE 2½"

WT/LB	PAI
0.02	49



GROOVE COUPLING BOLT & NUT

SIZE	WT/LB	PART#
21/2"	0.11	3238
3"	0.25	3395
4"	0.25	6808



GROOVE COUPLING REDUCER CAMLOC GASKET SIZE

Gruvlok SIZE	WT/LB	PART#
3"x 2"	0.20	5013
3" x 2½"	0.20	5039
4" x 3"	0.30	3859



SIZE	WT/LB	PART#
11/2"	0.03	3020
2"	0.04	0560
21/2"	0.04	0561
3"	0.05	0562
4"	0.07	2971



Style 20, 30 & 40		
SIZE	WT/LB	PART#
3"	0.14	4078
4"	0.17	4079



FLANGE GASKET

SIZE	WT/LB	PART#
21/2"	0.12	4091
3″	0.13	2365
4"	0.18	1649
5"	0.19	1647
6"	0.23	1648



SPRAY NOZZLE GASKET

SIZE	DESCRIPTION	WT/LB	PART#
11/2"	For 11/2" Plastic Nozzle NST/NPT	0.01	3667
21/2"	For 2½" Brass Nozzle NST/NPT	0.03	5980
	•		



FOOT VALVE REPAIR KIT

SIZE	DESCRIPTION	WT/LB	PART#
21/2"	Foot Valve Flapper Assembly	0.95	8514
3″	Foot Valve Flapper Assembly	1	4896
3"	Flapper Diaphraam Insert Only	0.09	7608







CAMLOCK SPECS

THREAD SIZE	THREAD O.D.	CAMLOC
11/2"	13/4"	2"
2"	21/2"	23/8"
21/2"	3″	3¾"
3"	33/8"	31/2"
4"	43/4"	41/2"



TYPE A

Male Camlock x Female NPT

SIZE	LENGTH	WT/LB	PART#
11/2"	21/4"	0.30	0567
2"	21/2"	0.40	0573
21/2"	23/4"	0.55	0578
3″	27/8"	0.85	0585
A "	31/4"	1.50	3205



TYPE B

Female Camlock x Male NPT

SIZE	LENGTH	WT/LB	PART#
11/2"	3"	0.75	0568
2"	3"	0.85	0574
21/2"	31/2"	1.20	0579
3"	34/5"	1.70	0586
4"	4 1/8"	2.20	3327



TYPE C

Female Camlock x Hose Barb

SIZE	LENGTH	WT/LB	PART#
11/2"	4 ⁷ /8"	0.90	2980
2"	5½"	1.15	2645
21/2"	6"	1.30	0580
3″	63/8"	2	0587
4"	71/4"	3.20	3091



TYPE D

Female Camlock x Female NPT

SIZE	LENGTH	WT/LB	PART#
11/2"	21/2"	0.75	2406
2"	2 ⁷ /8"	0.90	0575
21/2"	3"	1.50	0581
3"	31/4"	1.75	0588
A"	35/8"	2 60	2834



TYPE E

Male Camlock x Hose Barb

SIZE	LENGTH	WT/LB	PART#
11/2"	51/8"	0.60	3390
2"	53/4"	0.72	5630
21/2"	61/2"	1.20	0582
3"	6 ⁹ /16 "	1.40	0589
4"	81/8"	2.45	4625



TYPE F

Male Camlock x Male NPT

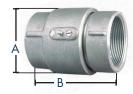
SIZE	LENGTH	WT/LB	PART#
11/2"	31/8"	0.50	0571
2"	37/8"	0.70	0576
21/2"	41/8"	1	0583
3″	41/8"	1.10	0590
4"	49/16"	2.15	0597



TYPE V

Female Camlock Dust Cap

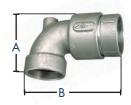
SIZE	LENGTH	WT/LB	PART#
1 1/2"	1 13/16"	0.75	0572
2″	21/8"	0.90	3015
21/2"	2 13/16"	1.30	2835
3"	23/8"	1.15	2722
4"	23/8"	1.75	0598



SWIVEL STYLE 20

Aluminum

SIZE	A	В	WT/LB	PART#
1 1/2"	31/2"	4"	1.40	5224
3"	53/4"	53/4"	3.55	1030



SWIVEL STYLE 30

Aluminum

SIZE	A	В	WT/LB	PART#
11/2"	43/16"	5 15/16"	1.75	5625
2"	41/4"	7 5/8"	3	3705
3"	6"	91/2"	4.70	3981



HOSE BARB GROOVE NIPPLE

Malleable Steel

SIZE	LENGTH	WT/LB	PART#
11/2"	41/8"	0.70	2612
2"	4 5/8"	1.15	5629
21/2"	5%16"	2	0705
3"	5 ¹⁵ /16"	3	0706
4"	7 5/16"	4.50	3259



HOSE BARB THREAD NIPPLE

Malleable Steel

SIZE	LENGTH	WT/LB	PART#
11/2"	41/4"	0.60	1302
2"	45/8"	1	1303
21/2"	5½"	2	1306
3"	6"	2.55	1307
A"	73/"	4.40	3066



HOSE BARB WELD NIPPLE

Malleable Steel

SIZE	LENGTH	WT/LB	PART#
21/2"	55/8"	2.25	1652
3″	5 ⁷ /8"	3	1653
A"	71/4"	5	<i>4</i> 158



HOSE BARB SWIVEL

NPT, NST & JIC Connections

SIZE	THREAD TYPE	WT/LB	PART#
11/2"	NPT	0.56	4330
1½"	NST	0.69	4261
11/2"	JIC	1.20	5198
2"	NPT	1.06	4291
21/2"	NPT	1.25	3314
2½"	NST	1.35	3315







GROOVE COUPLING FLEXIBLE

Gruvlok 7000 • Cast Iron

SIZE	WT/LB	PART#
11/2"	1.45	0684
2"	1.94	0685
21/2"	2.20	0686
3"	3.09	0687
4"	4.54	0689
5"	6.01	0691
6"	8.24	0692



GROOVE BY NOTCH NIPPLE

SCH 40 Black Steel

SIZE	Α	В	WT/LB	PART#
21/2"	21/4"	3"	1.20	3996
3"	2"	3"	1.50	3938
3"	3"	4"	1.88	6020
3″	3¾"	41/2"	2	4904



THREAD NIPPLE

SCH 40 Black Steel

SIZE	0.D.	LENGTH	WT/LB	PART#
1"	11/8"	6"	0.72	5667
11/2"	17/8"	4"	0.75	4557
11/2"	17/8"	6"	1.19	1276
11/2"	17/8"	12"	2.60	6553
2" 2" 2"	21/4"	4"	0.94	1277
2"	21/4"	6"	1.55	1278
2"	21/4"	12"	3.50	5098
21/2"	23/4"	6"	2.30	1281
21/2"	23/4"	8″	3.10	4450
21/2"	23/4"	12"	5.39	1279
3"	31/2"	4"	1.80	2505
3″	31/2"	6"	3.24	1284
3" 3"	31/2"	8"	4.10	3670
3″	31/2"	12"	6.50	1283
4"	41/2"	6"	4.50	1287
4"	41/2"	8″	5.75	3999
4"	41/2"	12"	6.75	5047



GROOVE COUPLING RIGIDLOK THREAD BY GROOVE NIPPLE

Gruvlok 7401 • Cast Iron

Used to connect unspported valves, pipe & elbows				
SIZE	WT/LB	PART#		
2"	2.31	1941		
21/2"	2.81	0696		
3"	3.57	0697		
4"	5.40	0698		
5"	6.80	9497		
6"	8 23	1218		



SCH 40 Black Steel

SIZE	0.D.	LENGTH	WT/LB	PART#
11/2"	17/8"	3"	0.75	2128
2"	21/4"	3″	1	2751
21/2"	23/4"	3″	1.75	1298
3"	31/2"	3″	2	1299
4"	41/2"	3″	2.50	4000



THREAD COUPLER

Merchant Steel

SIZE	LENGTH	WT/LB	PART#
* 1/4"	5/8"	0.03	9852
*1/2"	3/4"	0.10	6916
*3/4"	13/16"	0.22	4193
11/2"	2"	0.70	1228
2"	21/4"	1.02	1229
21/2"	31/8"	1.25	1230
3″	31/4"	2.94	1231
*3"	13/4"	1.25	6705
4"	35/8"	4.50	1233
*Half Coupler			



GROOVE COUPLING REDUCER THREAD BY WELD NIPPLE

Gruvlok 7010 • Cast Iron

SIZE	WT/LB	PART#
2½" x 2"	2.81	2750
3" x 2"	4.50	2764
3" x 2½"	4.13	0694
A" ~ 3"	6.16	0605



SCH 40 Black Steel

SIZE	O.D.	LENGTH	WT/LB	PART#
11/2"	17/8"	3″	0.50	3319
2"	21/4"	3″	0.55	3320
21/2"	23/4"	3″	0.75	1488
3"	31/2"	3″	1.50	1489
4"	41/2"	3"	2 73	4134



GROOVE BY WELD NIPPLE

SCH 40 Black Steel

SIZE	0.D.	LENGTH	WT/LB	PART#
11/2"	17/8"	3″	0.90	2223
2"	21/4"	3″	0.95	4686
21/2"	23/4"	11/2"	0.75	2897
21/2"	23/4"	3″	1.40	1485
3"	31/2"	3"	1.85	1486
3"	31/2"	41/2"	2.66	8442
3"	31/2"	8"	5.03	3095
4"	41/2"	4"	3.60	2747
4"	41/2"	7"	6.06	1958
5"	53/4"	4"	6	5295
6"	63/4"	6"	8.50	4495



THREAD CLOSE NIPPLE

SCH 40 Black Steel

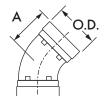
SIZE	O.D.	LENGTH	WT/LB	PART#
1/2"	3/4"	11/4"	0.04	6861
1"	11/8"	11/2"	0.14	1763
11/2"	17/8"	13/4"	0.29	1292
2"	21/4"	2″	0.44	1293
21/2"	23/4"	21/4"	0.84	1294
3"	31/2"	31/2"	0.94	1295
4"	41/2"	4"	1.74	1296

PRECUT PIPE PLUMBING

SCH 40 Black Steel

SIZE	0.D.	LENGTH	CONNECTION	WT/LB	PART#
21/2"	23/4"	12"	Groove by Weld	5	7002
21/2"	23/4"	24"	Groove by Groove	11.58	8322
21/2"	23/4"	84"	Groove by Weld	39	7004
21/2"	23/4"	84"	Weld by Weld	39	7003
3"	31/2"	12"	Groove by Weld	6.87	9783
3"	31/2"	15"	Groove by Groove	8.25	8315
3"	31/2"	18"	Groove by Groove	11	7319
3″	31/2"	20"	Groove by Groove	12.63	9293
3"	31/2"	52"	Groove by Groove	32	3634
3"	31/2"	66"	Groove by Groove	41	0864
3"	31/2"	72"	Groove by Weld	45.48	8313
3"	31/2"	72"	Weld by Weld	45.48	7005
3"	31/2"	84"	Groove by Weld	53.06	7006
3"	31/2"	84"	Weld by Weld	53.06	9782
4"	41/2"	18"	Groove by Groove	15.43	7007
4"	41/2"	20"	Groove by Groove	17	7008







GROOVE ELBOW 45°

Gruv	lok	7051	•	Cast	Iron
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SIZE	0.D.	Α	WT/LB	PART#
2"	2.375"	2"	1.5	6810
21/2"	2.875"	21/4"	1.86	4832
3"	3.5"	21/2"	2.72	0673
4"	4.5"	3"	5.46	2458

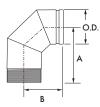




GROOVE ELBOW 90°

Gruvlok 7050 • Cast Iron

SIZE	O.D.	Α	WT/LB	PART#
2"	2.375	31/4"	1.90	0675
21/2"	2.875	3¾"	2.77	0676
3"	3.5	41/4"	3.75	0677
4"	4.5	5"	7.39	0678
5"	5.563	5½"	11.28	2988

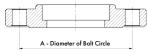




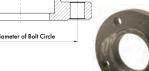
COMPANION FLANGE FEMALE NPT

Malleable Iron

SIZE	BOLT HOLES	A	WT/LB	PART#
2"	4	43/4"	4.24	1258
21/2"	4	51/2"	5.85	1259
3"	4	6"	7.35	1260
4"	8	71/2"	12.03	1261
5"	8	81/2"	15.15	4664
6"*	8	91/2"	16.39	3549
8"* *Black Stee	8 el	113/4"	26.10	9426



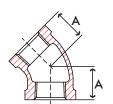




WELD ELBOW 45°

SCH 40 Black Steel

SIZE	0.D.	Α	WT/LB	PART#
11/2"	1.9"	1.12"	0.80	6777
2"	2.375"	1.38"	1.12	1615
21/2"	2.875"	1.75"	1.58	1616
3"	3.5"	2"	2.52	1618
4"	4.5"	2.5"	4.62	1620
5"	5.563"	3.12"	7.54	1621
6"	6 625"	3 75"	11 01	3086

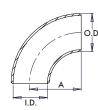




GROOVE BY MALE NPT 90°

Gruvlok 7055

SIZE	Α	В	WT/LB	PART#
21/2"	33/4"	33/4"	2.85	0710
3″	41/4"	6"	5.59	0711





WELD FLANGE

CH	40	Black	Steel	
CITE		DOLL	HALFC	

SIZE	BOLT HOLES	Α	WT/LB	PART#
2"	4	43/4"	4.64	1639
21/2"	4	5½"	7.72	1640
3"	4	6"	8.80	1641
3"*	4	6"	8.75	6774
4"x3"**	8	6"	15.19	1650
4"	8	71/2"	12.70	1642
5"	8	81/2"	14.02	1644
6"	8	91/2"	16.50	1645
8"	8	113/4"	29.11	4928

*Flat Faced *Reducing Flange



FEMALE NPT ELBOW 45°

Malleable Iron 150#

SIZE	A	WT/LB	PART#
3/4"	0.98"	0.30	7470
11/2"	1.43"	1.07	3384
2"	1.68"	1.84	1247
21/2"	1.95"	2.80	1248
3"	2.17"	3.29	1249
4"	2.61"	7.30	3278

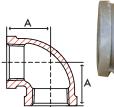


WELD ELBOW 90°

3CH 4U	piack steel			
SIZE	0.D.	Α	WT/LB	PART#
11/2"	1.9"	2.25"	0.79	1624
2"	2.375"	3"	1.50	1625
21/2"	2.875"	3.75"	2.71	1626
3"	3.50"	4.25"	4.57	1628
4"	4.50"	6"	8.13	1631
5"	5.563"	7.5"	15.73	1633
6"	6 625"	9"	22 88	4679

PHOENIX FLANGE

SIZE	WT/LB	PART#
1/2"	0.14	1266
3/4"	0.20	1267
1"	0.20	1268
11/2"	0.45	1270
2"	0.47	1271
2½"	1.13	1272
3″	1.15	1273
A"	2	1074

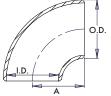




FEMALE NPT ELBOW 90°

Mall	eab	le l	ron 1	150)#
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SIZE	Α	WT/LB	PART#
11/2"	1.94"	1.31	3939
2"	2.25"	1.75	1251
21/2"	2.70"	3.30	1252
3″	3.08"	4.93	1253
A"	3 70"	8 97	1254

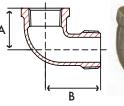




WELD ELBOW SHORT RADIUS 90°

SCH 40 Black Steel

SIZE	0.D.	Α	WT/LB	PART#
2	2.38"	2"	1.00	7754
21/2"	2.88"	2.5"	1.87	1627
3"	3.5"	3"	3.25	1629
4"	4.5"	4"	5.95	1632
5"	5.56"	5"	10.54	4699
6"	6.62"	6"	17.78	4951



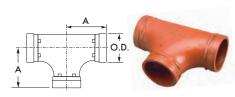


MALE NPT BY FEMALE NPT

Malleable Iron 150#

SIZE	Α	В	WT/LB	PART#
1/2"	1.12"	1.61"	0.20	6863
3/4"	1.30"	1.89"	0.43	2111
1"	1.50"	2.13"	0.65	2291
11/2"	1.94"	2.67"	1.33	1314
2"	2.25"	3.27"	2.67	1315
21/2"	2.70"	3.86"	3.85	1316
3"	3.08"	4.51"	5.47	1317
4"	3.79"	5.69"	9.18	5017

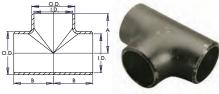




GROOVE TEE

Gruv	lok	7060	 Cast 	Iron
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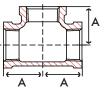
SIZE	0.D.	Α	WT/LB	PART#
21/2"	2.875"	3¾"	3.89	0715
3"	3.5"	41/4"	5.94	0716
4"	4.5"	5"	10.50	0717





SCH 40 Black Steel

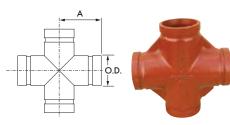
SIZE	Α	В	WT/LB	PART#
2"	2.5"	2.5"	2.38	1665
21/2"	3″	3"	4.19	1666
3″	3.38"	3.38"	6.08	1667
4"	4.12"	4.12"	10.13	1668





Malleable Iron 150#

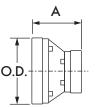
SIZE	Α	WT/LB	PART#
11/2"	1.94"	1.68	1319
2"	2.25"	2.49	6689
21/2"	2.70"	5.02	1321
3"	3.08"	6.82	1322
4"	3.79"	11.69	1323



GROOVE CROSS

Gruvlok 7068

SIZE	0.D.	Α	WT/LB	PART#
3"	3.5	41/4"		1738





GROOVE REDUCER

Gruvlok 7072 • Cast Iron

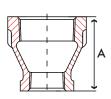
SIZE	Α	WT/LB	PART#
3" x 2½"	21/2"	1.51	0713
4" x 3"	4"	3.20	7041
5" x 4"	5"	4.50	0714



BUSHING FEMALE BY MALE NPT

Malleable Iron

SIZE	WT/LB	PART#
1½" x ¾"	0.61	5019
1½" x 1"	0.49	2766
2" x 1½"	0.70	1733
2½" x 1½"	1.36	2965
2½" x 2"	0.84	1208
3" x 2"	1. <i>77</i>	1210
3" x 2½"	1.52	1211
4" x 3"	3.19	3329

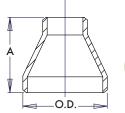




BELL REDUCER FEMALE NPT

Malleable Iron 150#

SIZE	Α	WT/LB	PART#
1½" x 1"	2.31"	0.80	4850
2½" x 1½"	3.25"	2.00	4759
2½" x 2"	3.25"	2.20	3978
3" x 2"	3.69"	2.80	4528
3" x 2½"	3.69"	3.20	1242
4" x 3"	4 38"	5.40	5357

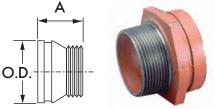




BELL REDUCER WELD

SCH 40 Black Steel • Concentric

SIZE	Α	WT/LB	PART#
3" x 2"	3.5"	1.81	1656
3" x 2½"	3.5"	2.03	1657
4" x 3"	4"	3.24	1658
5" x 3"	5"	5.62	1659
5" x 4"	5″	5.60	6227



GROOVE BY MALE NPT

Gruvlok 7076 • Schedule 40 Steel

SIZE	Α	WT/LB	PART#
2½" X 2"	21/2"	1.20	8395
3" x 2"	21/2"	1.30	0707
3" x 2½"	21/2"	1.50	2419
4" x 3"	3"	2.60	9190



GROOVE CAP

Gruvlok 7074 • Cast Iron

SIZE	WI/LB	PARI#
2"	0.50	4804
21/2"	1.00	0682
3"	1.14	0683
4"	2.54	4783



GROOVE CAP

SCH 40 Black Steel SIZE



WT/LB

PART#

1359

OUT CAP GROOVE BY FEMALE NPT

SCH 40 Black Steel		
SIZE	WT/LB	PART#
3" Groove x ¾" FNPT	1.43	6612
3" Groove v 116" ENIDT	0.03	7337



CAP FEMALE NPT

Malleable Iron		
SIZE	WT/LB	PART#
11/2"	0.58	1220
2"	0.80	1728
21/2"	1.64	1221
3"	2 22	1222



PLUG MALE NPT

Malleable Iron		
SIZE	WT/LB	PART#
3/4"	0.25	7367
11/2"	0.50	1309
2"	0.77	3471
2½"	1.19	5553
3"	1.73	1310
4"	2.87	3651
6"	10.01	4209





BI-DIRECTIONAL SERIES HYDRAULIC MOTOR

DESCRIPTION	WT/LB	PART#
11/2" Gear, SAEB, 3/4" JIC, 13 Tooth	35	7959



MANUAL HYDRAULIC FLOW

BRAND HYDRAULICS FC51-12SAE

DESCRIPTION	WT/LB	PART#
3000 PSI, ¾" ORB	8.25	7358



HYDRAULIC PUMP ADAPTER BRACKET & COUPLER

Franklin 439M

DESCRIPTION	WT/LB	PART#
Adapter Kit (Bracket & Coupler) SAEB	16.35	7151
Hydraulic Coupler	3.25	9379
'		



HYDRAULIC OIL TANK DECK MOUNT

INDEX	DESCRIPTION	WT/LB	PART#
Α	20 Gallon Hydraulic Tank	70	4238
В	Tank Cap & Strainer	0.74	2802
С	1½" Gate Valve	2	1546
D	Tank Sight Gauge	0.10	1195
E	10 Micron Filter Assembly	4	2248
(A-E)	20G Hyd Tank Kit (Unassembled)	78	6551



BI-DIRECTIONAL SERIES HYDRAULIC PUMP

T/LB	PART#
40	8042
42	8043
	40



CONTROL VALVE 12VOLT

DESCRIPTION	WT/LB	PART#
3000 PSI Normally Open	3.75	0767
3000 F31 Normally Open	3./3	0/0/



HYDRAULIC PUMP ADAPTER BRACKET & COUPLER

Franklin FMIH-40

INDEX	DESCRIPTION	WT/LB	PART#
Α	Hydraulic Adapter Bracket	18	9383
В	Hydraulic Adapter Coupler	2	8433
(A-B)	Adapter Kit (Bracket & Coupler)	20	6207



HYDRAULIC RELIEF VALVE

BRAND HYDRAULICS RL-10

DESCRIPTION	WT/LB	PART#
RL-10 Hydraulic Relief Valve	2.29	1015



WATERMAN HYDRAULIC FLOW BERKELEY HYDRAULIC ADAPTER **BRACKET & COUPLER**

Berkeley B3ZRM(S) & B4ZRKS

DESCRIPTION Adapter Kit (Bracket & Coupler) SAEB	WT/LB 15	PART# 0916
Hydraulic Coupler	1.75	9848
Aftermarket Adapter Kit (Bracket & Coupler) SAFB	15	9978



AIR VENT

Hoffman #79

DESCRIPTION	WT/LB	PART#
Female NPT ¼" x Male NPT ¾"	1.23	4112

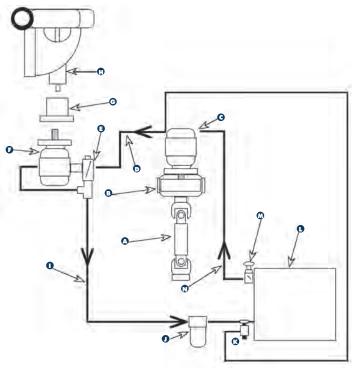


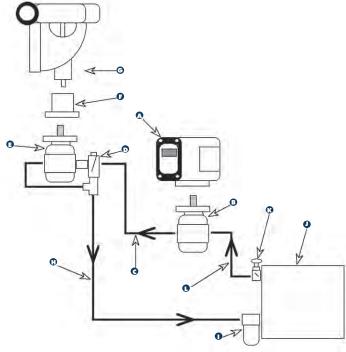
HYDRAULIC FILTER

INDEX	DESCRIPTION	WT/LB	PART#
Α	Filter 10 Micron	2.25	0815
В	Filter Cap	1.44	3504
(A-B)		4	2248









ENGINE BY HYDRAULIC DRIVE WATER PUMP SYSTEM DIAGRAM

INDEX DESCRIPTION

Α	1310 Series Drive Shatt
В	Pitts Clutch (Optional)
С	Bi-Directional Hydraulic Pump
D E	34" High Pressure Hydraulic Hose 2250 Max PSI
	Relief Valve
F	Bi-Direction Hydraulic Motor
G	Water Pump Hydraulic Adapter
Н	Water Pump
1	3/4" Hydraulic Hose Return Line 750 Max PSI
J	Hydraulic Filter
K	Waterman Hydraulic Flow Control Valve 12 Volt (Optional)
L	Hydraulic Oil Tank
M	1½" Gate Valve
Ν	1½" Hydraulic Hose Suction Line 350 Max PSI
	•







END YOKES & U-JOINTS 1310 SERIES

INDEX	DESCRIPTION	MODEL#	WT/LB	PART#	
Α	11/8" Shaft x 1/4" Key (B3ZRM(S) & B4ZRKS)	2-4-503	1.50	3704	
Α	11/4" Shaft x 5/16" Key (Chelsea PTO)	2-4-533	1.75	0885	ĺ
Α	1½" Shaft x ¾" Key (439M)	2-4-1233	1.80	7169	
В	U-Joint 1310 Series Drive Shaft	5-153	1.12	0902	ĺ

PTO BY HYDRAULIC DRIVE WATER PUMP SYSTEM DIAGRAM

INDEX DESCRIPTION

INDEX	DESCRIFTION
Α	K Mount PTO
B C	Bi-Directional Hydraulic Pump
С	34" High Pressure Hydraulic Hose 2250 Max PSI
D	Relief Valve
E	Bi-Direction Hydraulic Motor
F	Water Pump Hydraulic Adapter
G	Water Pump
Н	3/4" Hydraulic Hose Return Line 750 Max PSI
1	Hydraulic Filter
J	Hydraulic Oil Tank
K	1½" Gate Valve
L	1½" Hydraulic Hose Suction Line 350 Max PSI





PTO SHAFT KEY & SET SCREW

INDEX	DESCRIPTION	WT/LB	PART#
Α	Chelsea PTO Wood Ruff Key 500007-29	0.03	9758
В	Set Screw 3/8" x3/4" Sq Head with 3/32" Hole	0.03	9759



PRESSURE BYPASS KIT

Relieves spray system pressure by returning water to the tank. Maximize the lifetime of your water pump.

INDEX	DESCRIPTION	QTY REQUIRED	PART#
Α	AV 1100 Water Truck Valve	1	8030
В	3" Groove Coupling	2	0687
С	3" Weld x Groove Nipple	1	1486
D	3" Weld Notch x Groove Nipple	1	4904
E	Adjustable Pressure Regulator	1	1597
F	Regulator Bracket	1	2885
G	Brass Bushing 1/4" x 1/8"	2	7642
Н	Air Fit ¼" Tube x ¼", Straight	2	5546
I	Air Fit ¼" Tube x 1/8", Tee	1	5548
J	Drain Valve 1/4" MNPT	1	7626
K	Quick Exhaust Valve Assembly	1	9786
(A-K)	Pressure Bypass Kit		7479









REAR SPRAY BAR KIT

Rear spray kit with adjustable spray heads.

INDEX	DESCRIPTION	QTY REQUIRED	PART#
Α	Rear Spray Bar 3"x66" GBE SCH40	1	3318
В	FNPT Half Coupler 1/4" (Not Welded)	2	9852
С	Airline ¼" 25' Roll	2	4255
D	AV 1100 Water Truck Valve	2	8030
E	Rear Bar Brackets	2	2005
F	BC2399 Adjustable Spray Heads	2	3484
G	3" Groove Coupling Rigidlok	2	0697
Н	3" Groove Coupling	2	0687
I	Quick Exhaust Valve Assembly	2	9786
J	Drain Valve ¼" MNPT	4	7626
K.	1-Way Air Valve w/ Nameplate	2	1493
(A-K)	Rear Spray Bar Kit		7627



FRONT SPRAY BAR KIT

Front spray kit with adjustable, fan or flusher spray nozzles.

ADJUSTABLE SPRAY HEADS

INDEX	DESCRIPTION	QTY REQUIRED	PART#
Α	Front Spray Bar 3"x52" GBE SCH40	1	3634
В	FNPT Half Coupler 1/4" (Not Welded)	2	9852
С	Airline ¼" 25' Roll	2	4255
D	AV1100 Water Truck Valve	2	8030
E	Front Bar Brackets	2	2137
F	BC2399 Adjustable Spray Heads	2	3484
G	3" Groove Coupling Rigidlok	2	0697
Н	3" Groove Coupling	2	0687
I	Quick Exhaust Valve Assembly	2	9786
J	Drain Valve 1/4" MNPT	4	7626
K	1-Way Air Valve w/ Nameplate	2	1493
(A-K)	Front Spray Bar Fan Kit		7628

FAN NOZZLES - SUBSTITUTE F

INDEX	DESCRIPTION	QTY REQUIRED	PART#
F	BC2384 Fan Duck Bill Nozzle	2	1043
(A-K)	Front Spray Bar Fan Nozzle Kit		8100

STREET FLUSHERS - SUBSTITUTE F

IND	EX DESCRIPTION	QTY	PART#
		REQUIRED	
F	BC2178 Flusher Duck Bill Nozzle	2	1043
(A-I	() Front Spray Bar Flusher Kit		7629



LOWERED STREET FLUSHERS - SUBSTITUTE F & G - ADD L				
INDEX	DESCRIPTION	QTY REQUIRED	PART#	
F	BC2178 Flusher Nozzle	2	1043	
G	3" Groove Coupling Rigidlok	4	0697	
L	3" Groove 90°	2	0677	
(A-L)	Front Spray Bar Lowered Flusher Kit		7630	









Cox Crank Reel • $1\frac{1}{2}$ " x 50'



HOSE REEL KITS

Manue	al or Electric		
INDEX	DESCRIPTION	QTY REQUIRED	PART#
Α	2" Preformed Punch Clamp	2	0610
В	1½" Groove Coupling	1	0684
С	1½" Groove x Hose Barb	1	2612
D	1½" Rubber Water Hose	4FT	0738
E	1½" MNPT x Hose Barb	1	1302
F	11/2" Street 90° MNPT x FNPT	1	1314
G	Tank Mount Brackets for Cox Reels	2	3609
G	Tank Mount Brackets for Amercan Reels	2	8289
Н	11/2" MNPT x Groove Nipple	1	2128
I	1½" MNPT x Weld Nipple	1	3319
J	1½" Gate Valve	1	1546
K	1½" Adjustable Fog Nozzle	1	1068
L	Rubber Hose Reel Hose	1	Varies
M	Hose Reel	1	Varies
N	1½"x1" FNPT Reducer (1" Reel Kit Only)	1	4850

ELECTRIC HOSE REEL KITS

INDEX	DESCRIPTION	QTY REQUIRED	PART#
0	Circuit Breaker	1	3880
P	Solenoid	1	3881
Q	Push Button Switch Heavy-duty	1	3882

COX REEL KITS

INDEX	DESCRIPTION	PART#
(A-N)	1" x 50' Manual Rewind	6543
(A-N)	1" x 100' Manual Rewind	6545
(A-M)	1½" x 50' Manual Rewind	3867
(A-M)	1½" x 100' Manual Rewind	4967
(A-P)	1½" x 50' Electric Rewind 12 Volt	6092
(A-P)	11/2" x 100' Flectric Rewind 12 Volt	6093

AMERICAN REEL KITS

INDEX DESCRIPTION	PART#
(A-M) 1½" x 50' Manual Rewind	9387

SUCTION FILL KIT

INDEX	DESCRIPTION	QTY REQUIRED	PART#
Α	3" x 20' Suction Hose	1	2032
В	3" Suction Branch	1	4657
С	3" Butterfly Wafer Valve	1	2657
D	Support Strap for Suction Branch	1	2165
E	3" Male NPT x Male Camlock	1	0590
F	3" Campion Flange Female NPT	1	1260
G	3" Foot Valve	1	1535
Н	3" Groove 90°	1	0677
I	3" Butterfly Valve Groove	1	3598
J	4" Butterfly Valve Groove	1	3606
K	3" Groove Coupling	3	0687
L	4" Groove Coupling	1	0689
M	3" Groove x Weld Nipple	1	1486
Ν	3" Groove x Weld Notch Nipple	1	6020
(A-N)	Suction Fill Kit		4758

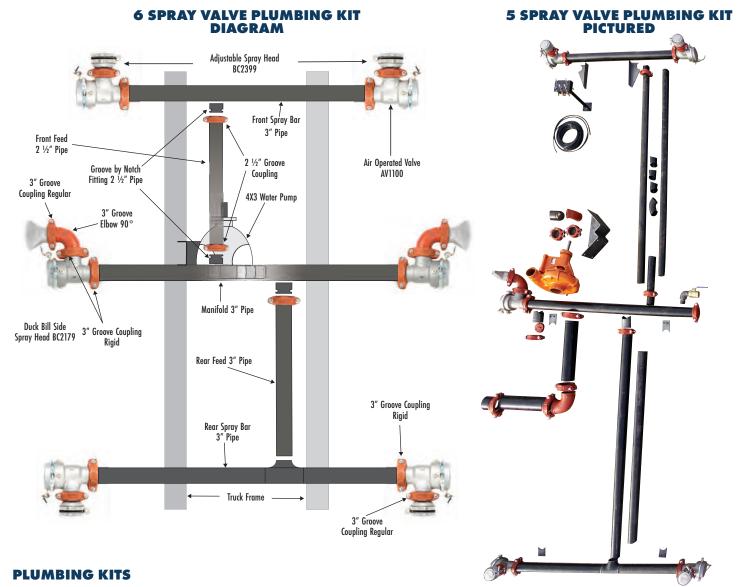


ELKHART REMOTE MONITOR KIT

INDEX	DESCRIPTION	QTY REQUIRED	PART#
Α	3" x 72" Groove x Weld SCH 40 Pipe	1	8313
В	3" x 18" Groove x Groove SCH 40 Pipe	1	7319
C	AV 1100 Water Truck Valve	1	8030
D	3" Groove Tee	1	0716
E	3" x 2" Groove x Male NPT	1	0707
F	3" Groove x Weld Nipple	1	1486
G	3" Groove Coupling Rigidlok	1	0697
Н	3" Groove Coupling	3	0687
I	Quick Exhaust Valve Assembly	1	9786
J	Elkhart Remote Monitor	1	Varies
(A-J)	Elkhart Remote Monitor Kit 12 Volt w/ Toggle		6479
(A-J)	Elkhart Remote Monitor Kit 12 Volt w/ Joy Stick		7092
(A-J)	Elkhart Remote Monitor Kit 24 Volt w/ Toggle		7274
(A-J)	Elkhart Remote Monitor Kit 24 Volt w/ Joy Stick		7826







Plumbing kits are based on our standard UnitedBuilt Water Truck plumbing layout and fit most spray systems. There may be additional plumbing and fittings required depending on your chassis, tank and how you choose to layout your plumbing.

PLUMBING: From tank to water pump and from pump to each spray head. All plumbing is schedule 40 steel pipe with groove style flexible fittings.

WATER PUMP: Heavy-duty 4x3 centrifugal cast iron pump. UnitedBuilt M3ZRM(S), Berkeley B3ZRM(S), Franklin 439M or Arms A39VRMS.

SPRAY SYSTEM: Cab control console for independently air operated valves with spray heads.

STANDARD PLUMBING KITS:

- 6 SPRAY VALVES: (2) Rear Adjustable Spray Heads, (2) 90°Side Spray Nozzles, (2) Front Adjustable Spray Heads
- 5 SPRAY VALVES:(2) Rear Adjustable Spray Heads, (1) 90°Side Spray Nozzle, (2) Front Adjustable Spray Heads
- 4 SPRAY VALVES: (2) 90°Side Spray Nozzles, (2) Front Adjustable Spray Heads
- 4 SPRAY VALVES: (2) Rear Adjustable Spray Heads, (2) Front Adjustable Spray Heads
- 3 SPRAY VALVES: (2) Rear Adjustable Spray Heads, (1) 90°Side Spray Nozzles

PLUMBING KIT OPTIONS:

HOSE REEL: Manual or electric rewind

WATER CANNON: Elkhart remote operated cannon with toggle box or joystick

SUCTION FILL: Ditch fill plumbing, valving, suction hose and foot valve

GRAVITY DROP: Gravity drop 6" pipe with 2-way air operated butterfly valve and splash plate

ARTICULATED SPRAY: Electric 12 volt rotating joint for articulated spray

DUST SUPPRESSION BAR: 3" or 4" pipe 8' wide with 2-way air operated butterfly valve. Setup as either gravity fed from tank or pressurized with pump



REAR DECK PLUMBING KIT 4X4 SELF-PRIMING PUMP HYDRAULIC DRIVE

Heavy-duty Centrigual Self-Priming Water Pump Bi-Direction Series Hydraulic Motor & Pump Pre-Assembled Rear Deck Mount

PLUMBING: Schedule 40 steel pipe with groove style flexible fittings throughout.

WATER PUMP: Heavy-duty centrifugal 4x4 self-priming water pump.

HYDRAULICS: Bi-Direction series hydraulics with motor attached to water pump. Hydraulic tank pre-plumbed. Hydraulic pump ships loose.

VALVES: Two UnitedBuilt AV1100 air operated water truck valves.

SPRAYHEADS: Two UnitedBuilt BC2399 adjustable spray head.

SUCTION FILL: Self-load plumbing with suction hose & strainer.

CONSOLE: UnitedBuilt cab console to control spray valves.



Heavy-duty 4x3 Centrigual Pump Bi-Direction Series Hydraulic Motor & Pump Pre-Assembled Rear Deck Mount

PLUMBING: Schedule 40 steel pipe with groove style flexible fittings throughout.

WATER PUMP: Heavy-duty 4x3 centrifugal water pump.

HYDRAULICS: Bi-Direction series hydraulics with motor attached to water pump. Hydraulic tank preplumbed. Hydraulic pump ships loose.

VALVES: Two UnitedBuilt AV1100 air operated water truck valves.

SPRAYHEADS: Two UnitedBuilt BC2399 adjustable spray head for rear deck.

CONSOLE: UnitedBuilt cab console to control spray valves.

REAR DECK PLUMBING KIT OPTIONS:

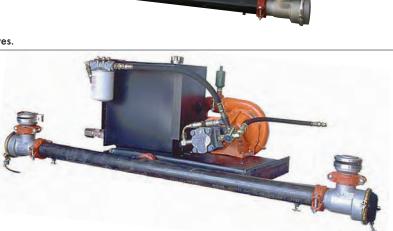
SIDE SPRAY: Plumbing, valves and nozzles for side sprays on each side of truck.

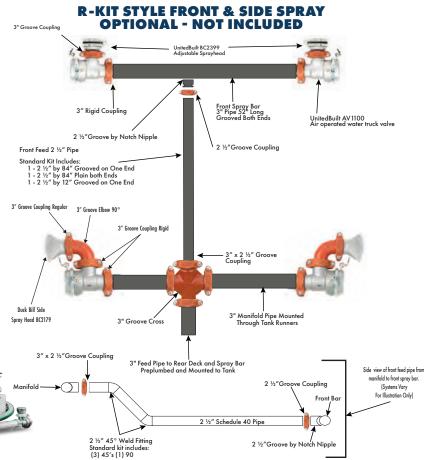
FRONT SPRAY: Plumbing, valves and nozzles for front spray bar spray heads.

HOSE REEL: Manual or electric rewind

WATER CANNON: Elkhart manual or remote operated with togale box or joystick

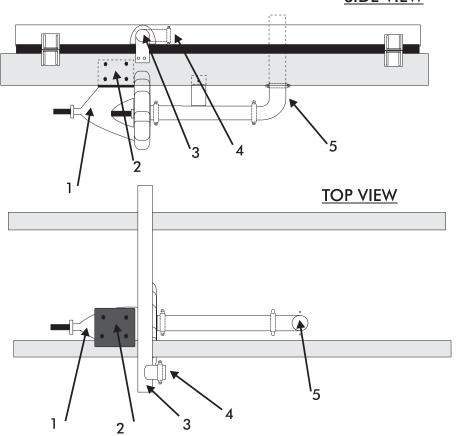








SIDE VIEW



STANDARD FRAME MOUNTED 4X3 PUMP PLUMBING

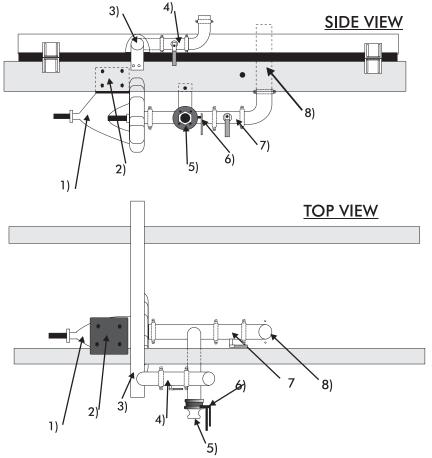
- 1. 4x3 Water Pump
- 2. Water Pump Mounting Bracket
- 3. 3" Manifold Pipe Mounted Across Frame Rails
- 4. Stubbed For Optional Suction Fill Plumbing
- 4" Intake Pipe From Tank To Water Pump



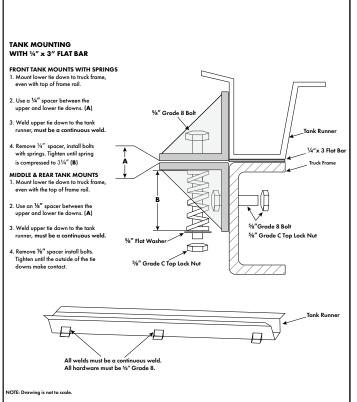
STANDARD FRAME MOUNTED 4X3 PUMP PLUMBING WITH SUCTION FILL

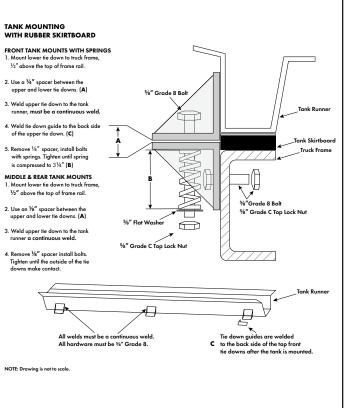
- 1. 4x3 Water Pump
- 2. Water Pump Mounting Bracket
- 3. 3" Manifold Pipe Mounted Across Frame Rails
- 4. 3" Groove Butterfly Valve
- 5. 3" Camloc "F" For Suction Hose Hook Up
- 6. 3" Wafer Butterfly Valve
- 7. 4" Victaulic Butterfly Valve For Pump To Tank Intake Shut Off.
- 8. 4" Intake Pipe From Tank To Water Pump

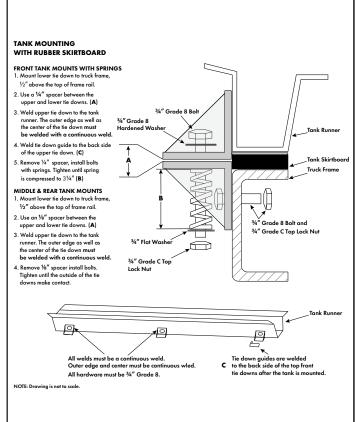


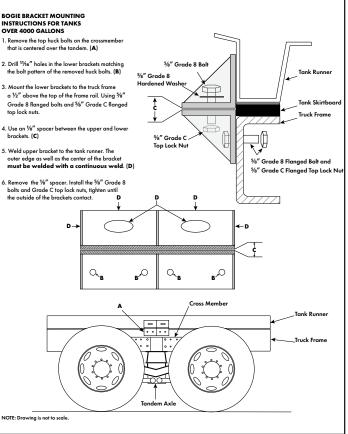
















Pump mounted to standard transmission. PTO bottom mounted to transmission, water pump mounted inside frame rail on driver side. (A) Pump shaft connected to PTO by 1310 series balanced drive shaft. (B) 1/4" brass ball valve to drain pump for maintenance or winterizing.



(A) The 3" rear spray bar tees into the supply line. (B) 3" manifold with grooved ends to be installed at a specified mid-ship location. The manifold pipe and rear bar pipe are mounted to the outside of the frame rail with bolt on brackets.



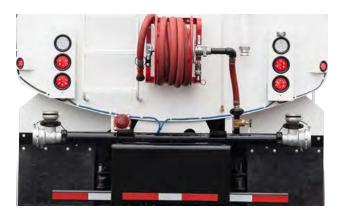
Top view of water pump mounted frame rail on driver side. Plumbed to manifold with rear supply pipe attached.



(A) Cut out arch in the tank runner for the manifold pipe mounted to the frame rail. (B) 1½" brass jet valve mounted on passenger side of truck. Note the mounting bracket for the manifold pipe.

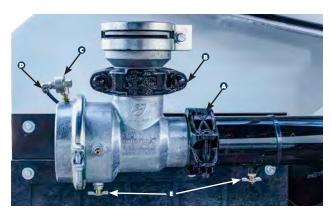


Plumbing from manifold to the front bar is 21/2" schedule 40 steel pipe (kits include elbows for custom installation.) (A) Front bumper guard is 3/16" steel. (B) Front bar is 3" x 52" grooved on both ends. (C) Front spray nozzles equipped with adjustable band to easily adjust spray pattern. (D) Nozzles can be horizontally adjusted. (E) Valve can be vertically adjusted.



Plumbing from manifold to rear bar is 3" schedule 40 pipe. Note the cut out on the tank end plate. Standard spray valves are fitted with adjustable nozzles. Easily adjust your spray pattern and vertical/horizontal direction. Shown with optional suction hose runner storage and hose reel.





(A) Rigid mount couplers are used to attach the valve to the grooved end of the pipe. (B) Standard grooved couplings are used to attach nozzle. (C) Exhaust valves rapidly release air pressure to quickly open water valves. (D) Swivel fittings attach to air line plumbed to control console. (E) 1/4" drain valves for maintenance and winterizing plumbing.



Optional 90° side spray valve on passenger side of truck (standard on stock tandem axle systems). Easily adjust 90° fitting and nozzle orientation for desired spray pattern and direction.



Spray valves are independently controlled with in the in cab mounted control tower. Each switch is plumbed with $\frac{1}{4}$ " airline to a spray valve for independent control.



(A) Push plate is constructed of $\frac{1}{2}$ " steel with internal storage and lid. (B) Drive under protection is constructed from 3x3" square tubing welded to the push plate.



(A) Full length belly plate for tanks 3,000 gallons or more effectively doubling bottom tank thickness. (B) Extra duty bogie mounting brackets for tanks exceeding 4,000 gallons. (C) Vulcanized rubber wear pads welded to runners on tanks 3,000 gallons or more absorb vibration and increase the life of the tank. (See mounting instructions page 57.)



(A) Front mounts are spring-loaded. (B) The mid and the rear mounts are rigid. (See mounting instructions page 57.)



OPERATION OF WATER TRUCK SPRAY SYSTEM

GENERAL GUIDELINES

HOT SHIFT PTO

- 1. Before starting truck, be sure all sprayhead controls are in the off position.
- 2. Engage PTO while engine is turning **900 RPM OR LESS.** Engaging at higher engine speeds will damage the transmission, PTO, drive shaft or water pump. Disengage PTO at any RPM.

AIR OR CABLE SHIFT PTO

1. While truck is at a **COMPLETE STOP**, engage clutch, move PTO lever to "in" position. Slowly release clutch. Water pump is now on. **NEVER** try to engage or disengage PTO while truck is moving. Transmission or PTO failure will result.

HADDVIIIIC

- 1. Before starting truck, be sure all sprayhead controls are in the off position.
- 2. Engage PTO while engine is turning **900 RPM OR LESS.** Engaging at higher engine speeds will damage the transmission, PTO, drive shaft or water pump. Disengage PTO at any RPM.

DITCH FILL OPERATION

SELF-PRIMING PUMPS

- 1. Pump volute must be filled with water.
- 2. Connect fill hose to cam-loc fitting on pump suction plumbing and lower strainer into water source.
- Close 4" valve between tank and pump suction. Open the valve between pump and fill hose. Open valve between pump discharge and tank.
- 4. Engage pump drive and set engine speed at 2000 RPM.
- 5. When tank is filled, turn off pump drive. Reverse position of the three valves to prepare system for spraying.

NON-SELF-PRIMING PUMPS

- 1. There must be enough water in the tank to flood the pump volute and the fill hose. Check the foot valve on the fill hose to assure it closes. If the foot valve does not hold water, repair or replace it before proceeding.
- 2. Connect fill hose to camloc fitting on the pump suction plumbing and lower foot valve into water source.
- 3. Close the valve between tank and pump suction. Open the valve between pump and fill hose. Open valve between pump discharge and tank.
- 4. Engage pump drive and set engine speed at 2000 RPM. If at this point the pump is not moving water, do the following:
 - Leave the pump turning. Simultaneously, close the hose valve and open the tank to pump valve. This creates a flow
 of water through the pump. Then, reverse these valves at the same time. The momentum of the flow through the pump
 should start filling the tank.
- 5. When filling is complete and pump drive is shut down, reverse valve positions before disconnecting the suction hose at the camloc.

TROUBLE SHOOTING

If you encounter problems with filling, check for:

- Valve positioning
- Obstruction in the pump or plumbing
- Broken pump shaft

- Suction hose is both water tight and air tight including camloc
- Foot valve or strainer are not blocked by mud or sand

CAUTION

- **DO NOT** close all spray head(s) under full pressure. Pump or spray head damage may occur. Let engine wind down with clutch disengaged, then close spray heads.
- **DO NOT** operate water pump with empty water tank. Water lubricates the pump seals, therefore, lack of water will result in seal failure.
- DO NOT over tighten packing glands or the pump will over heat and cause premature failure.
- The PTO on your truck is matched to your pumping system. The engine on a diesel powered unit should never exceed 2200 RPM while pumping. Gasoline powered units should not exceed 3000 RPM while pumping. Over-speeding the pump can cause premature drive line and pump failure.
- **WINTERIZE YOUR SYSTEM:** Always drain pump and plumbing before a freeze. Freezing water will split the pump and plumbing.
- Grease pump and PTO drive shaft every 40 hours of operation with high quality lithium-based multipurpose NGLI 2 extra
 pressure ball bearing grease.
- Always use a strainer or foot valve when ditch filling to avoid damage to the water pump, plumbing and sprayheads with sand, silt or small gravel.
- Rocks or pieces of rust periodically make their way through the water loading system (top or ditch fill.) Check inside the tank weekly for foreign objects and remove them. Pea sized rocks can damage the pump and spray system.



WATER TRUCK SYSTEM MAINTENANCE

GENERAL GUIDELINES

DAILY

LUBRICATION: Check pump shaft lubrication daily to ensure properly grease. Never over apply grease. Excessive grease can cause the bearings to run hot reducing their life. Lubcricate pump and PTO drive shaft every 40 hours of operaton or as necessary with high quality lithium-based multipurpose NGLI 2 extra pressure ball bearing grease.

WEEKLY

VIBRATION: Vibration is expected with all rotating machinery. However, excessive vibration can cause premature wear and reduce the life span of your pump. If vibration of the unit appears to exceed the norm, stop operation and determine the cause of the excessive vibration.

NOISE: While pump is operaiting, listen for unusual noises. Unusual sounds can indicate that the pump is under stress. Stop operation and determine the cause.

OPERATING TEMPERATURE: While pump is operaiting, heat will dissipate from the bearings and shaft. The pump bracket can reach up to 150°F after a short period of time. If it exceeds 150°F discontinue operation and determine the cause. After installing new rope packing the bearings will run hotter for a brief period of time. Worn out bearings will cause excessive temperatures and require replacement before damaging internal parts.

PACKING BOX: Verify that the packing box and gland are not hot. If the packing box is creating excessive heat, loosen the packing gland nut evenly so the water drips 40 to 60 drops a minute. Adjust the packing nuts evenly periodically to ensure proper lubrication and cooling from the water. Replace packing material if the packing gland has been tightened to its limit. **MECHANICAL SEAL:** The mechanical seal should never leak. Inspect for leakage periodically and replace when necessary. **SUCTION PLUMBING:** Periodically inspect the suction plumbing for obstruction. Inspect suction hose and screen if equipped with ditch fill.

TANK & PLUMBING: Check inside the tank weekly for foreign objects and remove them. Pea sized rocks can damage the pump and spray system. Rocks or pieces of rust periodically make their way through the water loading system (top or ditch fill.) Verify tank mounting is secure, tighten as necessary. Check tank skirtboards and replace as necessary.

TANK ANODES: Check the condition of anodes inside the tank weekly. Replace if worn to maximize tank life.

VALVES & COUPLINGS: Check valves and couplings weekly for leaks. Valves and couplings should not leak. Replace seals and gaskets as necessary.

ANNUALLY

PUMP & PUMPING SYSTEM: Inspect pump and entire pumping system for signs of excessive wear. Check impeller eye clearance, volute case, and seal chamber for corrosion. Replace worn out or corroded parts to ensure lasting performance and maximize life.

VALVES & COUPLINGS: Inspect valves and couplings for signs of excessive wear or leakage. Replace worn out parts to ensure lasting performance and maximize life.

TANK & MOUNTING: Inspect inside of tank for foreign objects and remove them. Verify tank mounting is secure, tighten as necessary. Check tank skirtboards and replace as necessary.

RECOMMENDED SPARE PARTS

- Valves & Seal Kits
- Couplings & Gaskets
- Pump Seal Kits
- Pump Impeller & Shaft Kit
- Replacement Pump or Power Head (When Continued Operation is Critical)
- Tank Anodes
- Tank Skirtboard
- Tank Springs & Mounting Hardware
- Air Line & Fittings
- Control Console Switches



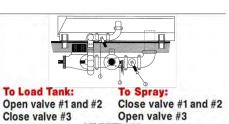
FOR COMPLETE INVENTORY & TO ORDER PARTS GO TO WATERTRUCKS.COM







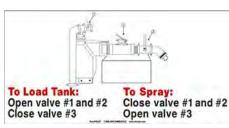
SI7F 4 ¼" x 13 ½" PART# 8180



SUCTION FILL: FRAME MOUNT

SIZE 6" x 12"

PART# 7179



SUCTION FILL: REAR DECK

SIZE 6" x 12" PART# 8237

Operators Responsibility Check and Tighten as needed all power-take-off mount bolts and PTO shaft bolts after every 40 hours of operation.

'Responsabilidad del Operador' Revisen y ajusten todos los tornillos y tuercas de la toma de fuerza e PTO shaft, despues de cada 40 horas de operacion.

Drain Pump & Plumbing in Freezing Conditions

Drenar la Bomba y Plomería en Condiciones de Extremo Frío

CAUTION

Open Valve for Legal Weight

Abrir la valvula para pesar legalmente

CAUTION: PTO BOLTS

6" x 12"

PART# 7571

CAUTION: DRAIN PUMP

SIZE 6" x 12"

PART# 7178

CAUTION: LEGAL WEIGHT

6" x 12"

PART# 7177

CAUTION

DO NOT CLOSE SPRAYHEADS **UNDER PRESSURE**

PUMP DAMAGE WILL OCCUR

Part#8498 1.800.600.TANK(8265) watertrucks.com

CAUTION: SPRAYHEADS

3" x 5"

PART# 8498

IMPORTANT

GREASE WATER PUMP AND WATER PUMP DRIVE SHAFT EVERY

40 HOURS OF OPERATION Part#8414 1.800.600.TANK(8265) watertrucks.com

IMPORTANT: GREASE PUMP

3" x 5"

PART# 8/1/



WARNING: ROTATING SHAFTS

5" x 7"

PART# 8321

WARNING

The engine must be at idle or below 1000 RPM when engaging the P.T.O. Failure to follow operating sequences will result in premature P.T.O. failure with possible damage to other equipment

Port#8521 1.809.600.TANK(8265) w

WARNING: PTO ENGAGEMENT

31/2" x 43/8"

SIZE

PART# 8521

WARNING HIGHER ROLLOVER RISK!

This vehicle has a high center of gravity and poses a rollover risk in turns or abrupt steering situations even BELOW POSTED speeds! Always Buckle Up!

WARNING: ROLLOVER RISK

SIZE 31/2" x 43/8" PART#

NON POTABLE WATER

NON POTABLE WATER

SIZE

PART# 3½" x 3' 3½"



TRUCK SPECIFICATION FORM

CITY	CTA	Tr	7IDCONE
ADDRESS			
PHONE		_ FAX	
CUSTOMER NAME			
BUSINESS NAME			





MAKE	TANK SIZE (GAL)	
MODEL	PTO DRIVE	HYDRAULIC DRIVE
YEAR	SPRAY HEADS _	
CONVENTIONAL CABOVER	HOSE REEL _	
ENGINE	SUCTION FILL _	
TRANSMISSION	MONITOR _	
FRONT AXLE CAPACITY	EPOXY COATING _	
REAR AXLE CAPACITY RATIO	GRAVITY DROP _	
CAB TO AXLE (CA)	HOT SHIFT PTO _	
CAB TO CENTER OF TANDEM (CT)	POWDER COAT _	
NOTES:		











WaterTrucks.com

2045 West Buckeye Road Phoenix, Arizona 85009 800-600-TANK (8265) (602) 253-7739 FAX: (602) 258-6312

