

United Built *WaterTrucks.com*



**MFG IN
USA**

WHERE THE DUST SETTLES
WATER TRUCKS • TANKS • PARTS

PRODUCT CATALOG 2023-R2



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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.

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.



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.

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 EQUIPMENT

QUALITY DESIGN & CRAFTSMANSHIP



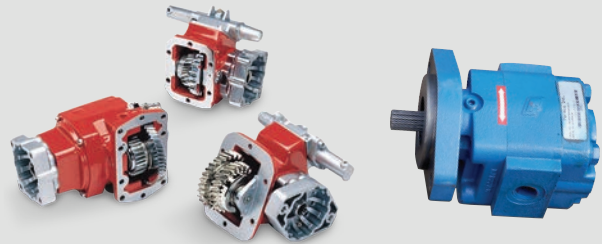
MAXIMUM OUTPUT WITH MINIMUM WATER HAMMER

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, lower center of gravity, 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 3/16" ASTM A36 steel. Curved and fitted with 4" - 6" offset welded 100% inside and out. Tanks 5000 gallons & larger fitted with 1/4" heads.

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 1/4" 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.

OPTIONAL STAINLESS STEEL

Stainless Steel Tanks: 7GA A36 2B Finish

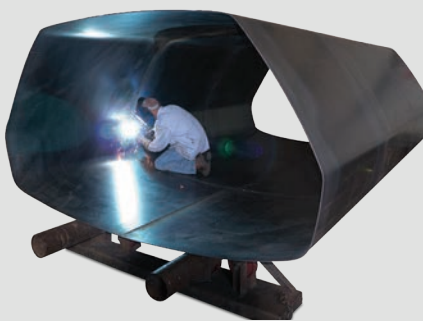


VISION TANK DIMENSIONS & CAPACITIES

MODEL	HEIGHT	WIDTH	GALLONS PER FOOT	STANDARD CAPACITIES IN GALLONS					
				10'	15'	17'	18'	19'	20'
6C	53"	96"	214	2000	3100	3600	3750	4000	4200
6D	60"	96"	243	2300	3500	4000	4250	4500	4700
6V	66"	102"	285	2700	4000	4700	5000	5200	5500
6M	70"	102"	303	2800	4400	5000	5300	5600	5900
6G	72"	102"	310	2900	4500	5100	5400	5700	6000

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

*Nominal capacities. Actual operational capacities will vary.



**FULL PENTRATION WELDS
INSIDE & OUT 100%**



REAR VIEW OF VISION TANK
Light Kit: Standard DOT LED Specifications



FRONT VIEW OF VISION TANK
Vulcanized Wear Pads Tanks 3000+ Gallons



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



**SACRIFICIAL ANODES
PROTECTIVE CORROSION BARRIER**



**IMPROVED VISIBILITY
LOWER CENTER OF GRAVITY**



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 3/16" ASTM A36 steel. Curved and fitted with 4" - 6" offset welded 100% inside and out. Tanks 5000 gallons & larger fitted with 1/4" heads.
- 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 1/4" 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.

OPTIONAL STAINLESS STEEL

Stainless Steel Tanks: 7GA A36 2B Finish



CONVENTIONAL TANK DIMENSIONS & CAPACITIES

MODEL	HEIGHT	WIDTH	GALLONS PER FOOT	STANDARD CAPACITIES IN GALLONS					
				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	7650	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)

*Nominal capacities. Actual operational capacities will vary.



**CURVED & FITTED BAFFLES
FLOW HOLES ALL SIDES**



**FULL PENETRATION WELDS
INSIDE & OUT 100%**



CLASSIC SHAPE
Light Kit: Standard DOT LED Specifications



FACTORY INSTALLED SINGLE AXLE

ON YOUR TRUCK OR OURS • CALL FOR MODELS & AVAILABILITY

Shown with optional
Vision Tank & hose reel



WATER TRUCK SYSTEM 5 SPRAY VALVES SINGLE AXLE CHASSIS

STANDARD CAPACITY: 1800 - 2300 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 mid-ship 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:**

UnitedBuilt M3ZRMS 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 driveline (HOT shift PTO available for automatic transmission). **JET VALVE:** Standard 1 1/2"

ball valve on the passenger side of the manifold. **SIGHT GAUGE:** All-season clear 3/8" 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 3/8" 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. **CAPACITY OPTIONS:** 1500 - 2400 Gallons. **1 Year Limited Plumbing Warranty**

UnitedBuilt M3ZRMS 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 driveline (HOT shift PTO available for automatic transmission). **JET VALVE:** Standard 1 1/2" ball valve on the passenger side of the manifold. **SIGHT GAUGE:** All-season clear 3/8" 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 3/8" 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.

CAPACITY OPTIONS: 1500 - 2400 Gallons. **1 Year Limited Plumbing Warranty**



WATER TRUCK OPTIONS (SEE PAGE 14 - 16 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.
- **Auxiliary Lights:** Add auxiliary lights such as strobe, beacon or work lights.
- **Tank Vision:** Electronic display of water level.



FACTORY INSTALLED TANDEM AXLE

ON YOUR TRUCK OR OURS • CALL FOR MODELS & AVAILABILITY



Shown with optional Vision Tank, hose reel & suction fill.



WATER TRUCK SYSTEM 6 SPRAY VALVES TANDEM AXLE CHASSIS

STANDARD 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:** UnitedBuilt M3ZRMS 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 1½" ball valve on the passenger side of the manifold. **SIGHT GAUGE:** All-season clear

5/8" 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 sacrificial corrosion barrier protecting and improving the longevity of the tank interior. **MOUNTING:** Heavy-duty 3/8" 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. **CAPACITY OPTIONS:** 3000 - 8000 Gallons. **1 Year Limited Plumbing Warranty**

WATER TRUCK OPTIONS (SEE PAGE 14 - 16 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.
- **Auxiliary Lights:** Add auxiliary lights such as strobe, beacon or work lights.
- **Tank Vision:** Electronic display of water level.



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. R-Kits include a UnitedBuilt control console to independently air operate each valve from inside the cab. All plumbing is schedule 40 steel pipe with groove style flexible fittings. (no threaded fittings or hose plumbing).

WATER PUMP:

UnitedBuilt M3ZRMS

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 above). **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 1/2" brass ball valve. **SIGHT GAUGE:** Flexible, clear all season 5/8" 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 3/8" 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 14 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 • Powder Coat • Epoxy Line Interior

CAPACITY OPTIONS: 1500 - 8000 gallons.

VALVE OPTIONS: (see page 32 - 33)

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 31)

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





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 AV1100 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 UnitedBuilt control console to independently air operate each valve from inside the cab.

WATER PUMP: UnitedBuilt M3ZRMS heavy-duty 4x3 centrifugal cast iron pump 750GPM@65PSI, with ceramic mechanical seal. **JET VALVE:** Standard 1½" brass ball valve. **SIGHT**

GAUGE: Flexible, clear all season 5/8" 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 3/8" 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:** Exterior sandblasted and primed. (Shown with optional powder coated exterior.) See page 14 for coating options.

U-KIT 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 Powder Coat • Epoxy Line Interior

CAPACITY OPTIONS: 1500 - 8000 gallons.

VALVE OPTIONS: (see page 32 - 33)

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

BC2410 Spray Head Valve: Air to Open with Adjustable Nozzle

Inline Air Operated Valves: Heavy-duty or 323

Electric Operated Valves: BMC 12 volt or 24 volt

NOZZLE OPTIONS: (see page 31)

Street Flusher Nozzle

Side Spray Nozzle

Adjustable Spray Nozzle

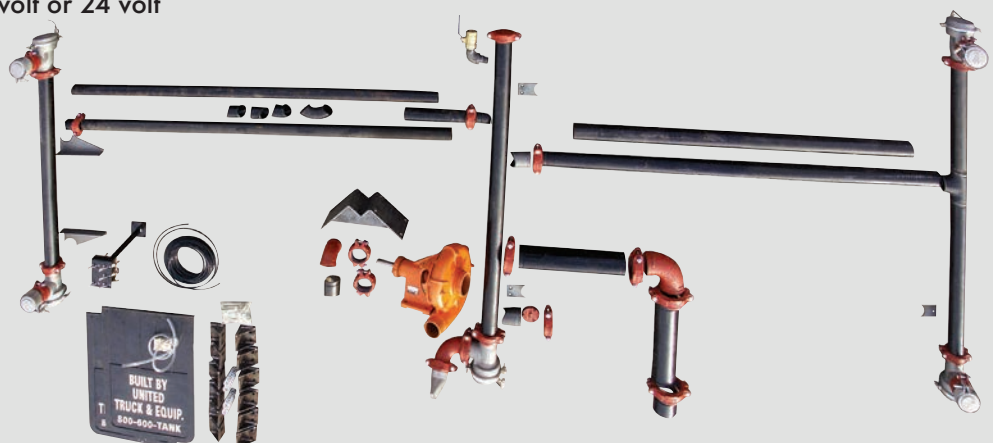
Fan Spray Nozzle

OTHER SET UP OPTIONS

Articulated Spray Nozzle

Raised/Centered Spray Head

Lowered Flusher Spray Nozzle





ROLL OFF TANK

PLUMBED & READY TO GO

STANDARD CAPACITY: 2000 - 4000 gallons. UnitedBuilt® Water Truck Tank **5 Year Limited Tank Warranty**. **HOOK/HOIST RECEIVER:** Receiver A-frame for hook arm/Rollers for hoist 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:** UnitedBuilt M3ZRMS heavy-duty 4x3 centrifugal cast iron pump 750GPM@65PSI, with ceramic mechanical seal. **OPTIONAL SELF-PRIMING WATER PUMP:** Berkeley style B4ZRKS 4x4 self-prime centrifugal cast iron pump 650GPM@50PSI, required with self-loading option. **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 heavy-duty 4x3 centrifugal pump with Robin 13.5HP engine. **OPTIONAL SELF-PRIMING WATER PUMP WITH QUICK DISCONNECT HYDRAULIC DRIVE (SHOWN):** Berkeley style B4ZRKS 4x4 self-prime centrifugal cast iron pump 650GPM@50PSI, required with self-loading option. **SPRAY SYSTEM:** Two fan heads at rear of tank with one air operated in-line valve. **1 Year Limited Plumbing Warranty**





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:** Berkeley style 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:** Berkeley high pressure 5x4 centrifugal cast iron pump 1000GPM@180PSI with ceramic mechanical seal. **DRIVE:** Chelsea heavy-duty two gear hot shift PTO with 1310 series balanced tube drive line. **MOUNTING:** Heavy-duty 3/8" 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 1/2" 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:** UnitedBuilt M3ZRMS 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 $\frac{3}{8}$ " 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 $\frac{1}{2}$ " steel with storage and hinged lid. **FRONT SPRAY GUARD:** Fitted with a $\frac{3}{16}$ " 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:** $\frac{1}{4}$ " ASTM-A-36 top, $\frac{5}{16}$ " 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. **1 Year Limited Plumbing Warranty**



FIRE TENDER SYSTEM CUSTOM BUILT TO YOUR SPECIFICATIONS

STANDARD CAPACITY: 2000 - 4000 gallons. UnitedBuilt Tank **5 Year Limited Tank Warranty**
WATER PUMP: UnitedBuilt 4x3 cast iron centrifugal pump 750GPM@65PSI or high pressure Darley HM500 500GPM@150PSI/350GPM@200PSI. **DISCHARGE:** 2½" discharge valves with male NST threads plumbed to any location of the truck. **SPRAYS:** Independently air operated spray valves. **NEWTON 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. **TANK VISION:** Electronic water level display inside and outside the cab. **BAFFLES:** Optional NFPA baffling. **1 Year Limited Plumbing Warranty** CALL WITH YOUR CUSTOM SPECIFICATIONS



Standard Drive Side Mounted Cannon



Standard Rear Tank Head Mounted



American Reel Crank Style

NITRO HD WATER CANNON

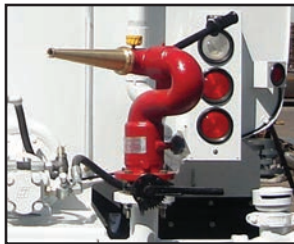
The Nitro HD water cannon made by Elkhart is for harsh environments such as dust control, mines, quarries, oil fields, and firefighting. It is capable of 750 gallons per minute. It features sealed high torque motors and a sealed heavy-duty nozzle with joystick control.



Deck Mounted



American Reel 12V Motor Rewind



Manual Rear Mounted



8494 Remote Operated Rear Mounted

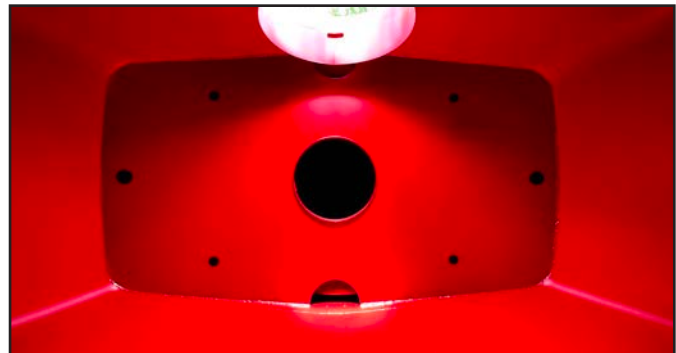
HOSE REEL

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

- 50' x 1 1/2" Hose
- 100' x 1 1/2" Hose
- 50' x 1" Hose
- 100' x 1" Hose

WATER CANNON

Elhart Brass water cannons are available in manual or electric (12 volt or 24 volt) with joystick cab control. Elkhart's new Nitro HD cannon is well equipped for extreme environments with sealed high torque motors, sealed heavy-duty nozzle, and joystick control.



EPOXY COAT TANK INTERIOR

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



Tank Runner Storage



Fender Hose Tube Storage

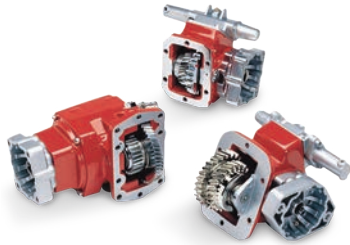
SUCTION FILL

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.



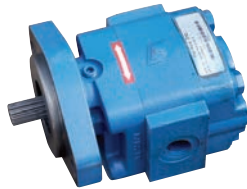
UNDERCOAT APPLICATION

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

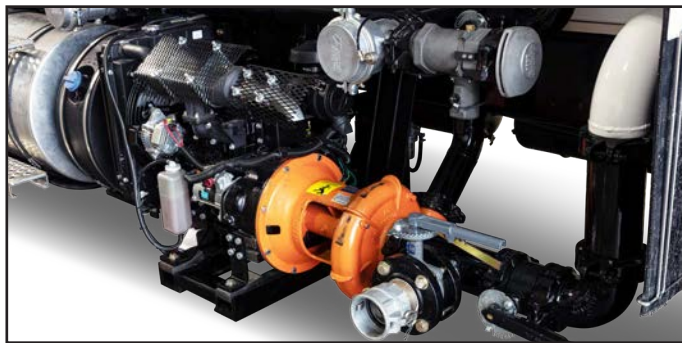
Heavy-duty 2-Gear Chelsea Hot Shift PTO. Call with you transmission model number.



MOTOR	PUMP
1 1/2" Gear	2" Gear
	1 3/4" Gear

HYDRAULIC MOTOR & PUMP

UnitedBuilt Bi-Direction series hydraulic motor and pump.



AUXILIARY DIESEL ENGINE

Diesel engine 4 stroke motor SAE 5 direct coupled to water pump with in cab controls.

CYLINDERS	DISPLACEMENT	COOLING SYSTEM	HP	CAB CONTROL	EMISSIONS
3	1.3L	Water Cooled	24	2 Speed	Tier 4



HIGH PRESSURE WATER PUMP

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



SUPER SINGLE TIRES OR 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 your spray nozzle from your cab.



LOWERED SPRAY NOZZLES

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 1/2" VeeJets on 6" centers (16 nozzles.)



LOCKING TOOL BOXES

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.



WORK LIGHTS

LED tank mounted work lights.



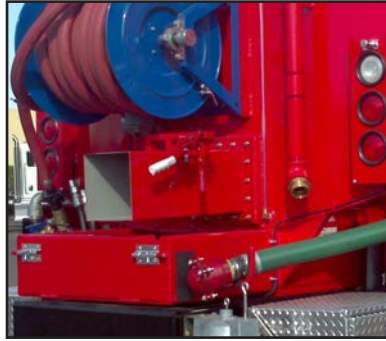
STROBES OR BEACONS

LED tank mounted strobe or beacon lights.



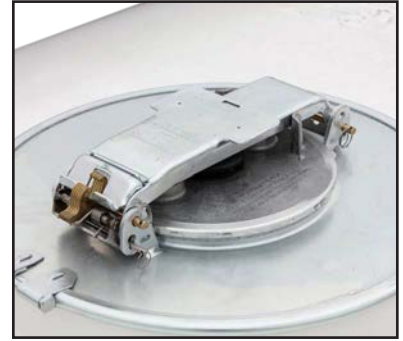
FENDER HOSE TRAYS

Integrated fender hose trays for lay flat hose storage.



DUMP VALVE

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



SEALING MANWAY

Sealing vented 20" tank manway lid.



PORTATANK STORAGE

PortaTank storage built into rear tank runners or side mounted.



Inside cab display above and outside display to the right. Pictures not to scale.



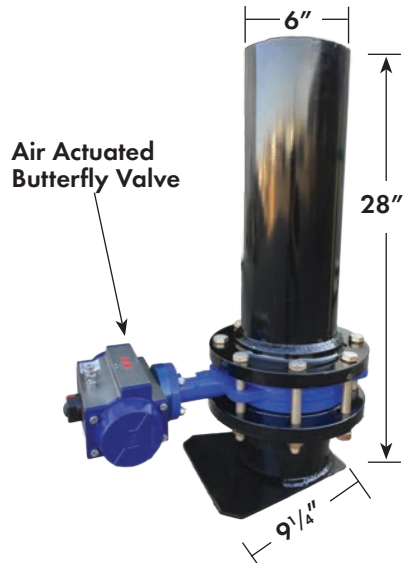
TANKVISION PRO

FRC LED water level gauge display inside & outside of the cab.



PRESSURE BYPASS VALVE

Reduces water hammer by returning water to tank with pressure sensing air valve.



GRAVITY DROP ASSEMBLY

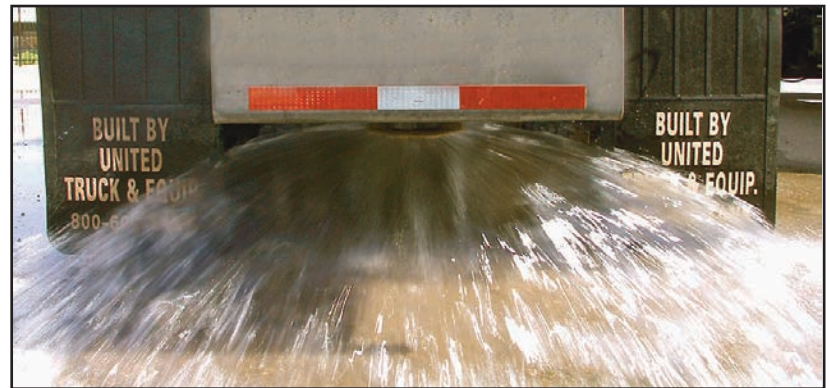
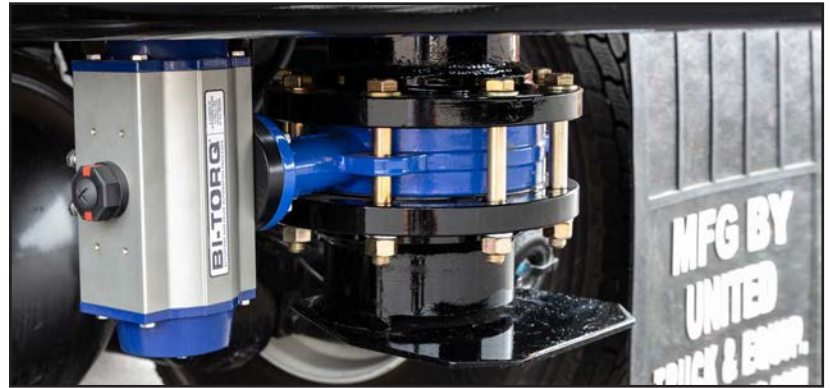
2-Way Air Operated Butterfly Valve • 6" Black Pipe
Maximize Pump Life with Gravity Spray

DESCRIPTION	WT/LB	PART#
Gravity Drop Assembly Air Operated	120	009455



MOUNTING PARTS

INDEX	DESCRIPTION	PART#
A	6" Groove Coupling Rigidlok	004248
B	6" Weld x Groove Nipple 6" Long	004495



DRIP BAR KIT

8' Wide with 1/2" Female Threaded Ports on 6" Centers
Optional Brass VeeJets Sold Separately
Air Operated Butterfly Valve
Plumb to Pump for Pressure or Tank for Gravity Spray

3" DRIP BAR KIT

DESCRIPTION	QTY	PART#
3" Drip Pipe with Flange	1	008409
3" Groove Cap	2	000683
3" Groove Coupling	6	000687
3" Groove 90°	1	000677
3" Weld x Groove Nipple 3" Long	1	001486
3" Weld Flange w/ Groove Nipple	1	004595
3" Pipe Groove x Groove 20" Long	2	009293
Mounting Bracket for 3" Drip Pipe	2	009625
3" Air Operated Butterfly Valve	1	009157
Clippard MJTV-4 Air Switch	1	006028
Air Switch Extension Bracket	1	010219
Airline Fitting 90° Swivel 1/4" Tube x 1/8" MNPT	5	005547

4" DRIP BAR KIT

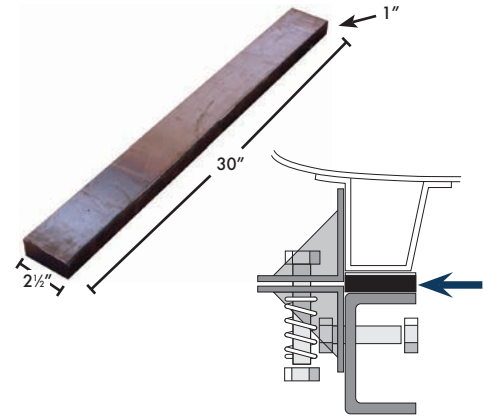
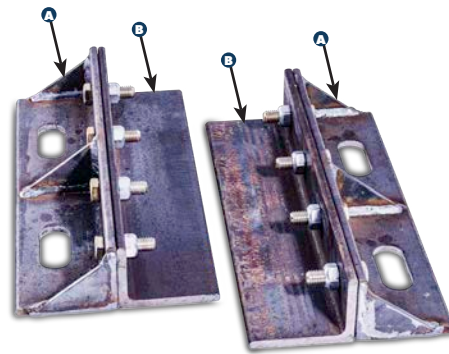
DESCRIPTION	QTY	PART#
4" Drip Pipe with Flange	1	006841
4" Groove Cap	2	004783
4" Groove Coupling	6	000689
4" Groove 90°	1	000678
4" Weld x Groove Nipple 4" Long	2	002747
4" Weld Flange	1	001642
4" Pipe Groove x Groove 20" Long	2	007008
Mounting Bracket for 4" Drip Pipe	2	006961
4" Air Operated Butterfly Valve	1	009158
Clippard MJTV-4 Air Switch	1	006028
Air Switch Extension Bracket	1	010219
Airline Fitting 90° Swivel 1/4" Tube x 1/8" MNPT	5	005547



PARTS FOR 3" OR 4" PRESSURE SPRAY BAR

Plumb into rear feed pipe for pressure spray.

INDEX	DESCRIPTION	QTY	PART#
A	Brass VeeJet Nozzle 1/2" MNPT	16	003909
B	3" Groove x Notch 2 3/4" Long	1	003938
For 4" pressure spray bar add above and below parts.			
C	3" Groove Coupling	1	000687
D	4" x 3" Groove Reducer	1	007041



TANK MOUNTING KITS
Brackets, springs & hardware

DESCRIPTION	WT/LB	PART#
Mount Kit: (12) Brackets, (4) Springs & Grade 8 3/4" Hardware Set	60	0009730
Tank Spring (Sold Each - 4 Req)	0.60	0001203
Complete Bolt Kit: (4) 3/4-10x6 GR8 bolt, (8) 3/4-10x2 GR8 bolt, (12) 3/4-10 GRC lock nut, (4) 3/4 flat washer, (8) 3/4 hard washer	5	K002585
Long Bolt Kit: (1) 3/4-10x6 GR8 bolt, (1) 3/4-10 GRC lock nut, (1) 3/4 flat washer		K011145
Short Bolt Kit: (1) 3/4-10x2 GR8 bolt, (1) 3/4-10 GRC lock nut, (1) 3/4 hard washer		K009955
Tie Down Guides (Sold Each - 2 Req)	1.31	0001411

See page 55 for installation instructions and diagrams

BOGIE BRACKETS
For tanks greater than 4000 gallons

ID	DESCRIPTION	WT/LB	PART#
A	Chassis Bogie Brackets (2 Req)	12.94	009744
B	Tank Bogie Brackets (2 Req)	11.11	009773

Bogie Bolt Kit: (8) 3/8-11x2 GR8 bolt, (8) 3/8-11 GRC lock nut, (8) 3/8 hard washer
Call
See page 55 for installation instructions and diagrams

SKIRTBOARD
UnitedBuilt Vulcanized Rubber Wear Pad
Absorbs Vibration Maximizing Tank Life

DESCRIPTION	WT/LB	PART#
Vulcanized Rubber Wear Pad 2 1/2" x 30"	5.5	009865

Durometer 85



HOSE REEL BRACKETS
For tank mounted hose reels

DESCRIPTION	WT/LB	PART#
Tank brackets American Reels (2 Req)	7	008289
Tank brackets Coxreels (2 Req)	7	003609

HOSE RACK
Simple, low maintenance hose storage

DESCRIPTION	WT/LB	PART#
Weld on hose rack	34	009875

TANK BAFFLE ANODES
Acts as a sacrificial corrosion barrier

DESCRIPTION	WT/LB	PART#
Magnesium Anodes for Tank Baffles 2 Required Per Baffle	1.25	009462



TANK SIGHT GAUGE
All weather flexible clear tubing & brass fittings

ID	DESCRIPTION	WT/LB	PART#
A	Flexible PVC Clear Tubing (3/8" sold by the foot)	0.1	001201
B	Sight Gauge Fitting w/ Ferrule 3/8" Tube x 1/2" MNPT	0.27	001194
C	Ferrule 60X10	0.0006	007631
D	Insert 2030X10	0.0006	007632

MUDFLAPS & ACCESSORIES

ID	DESCRIPTION	DIMENSIONS	WT/LB	PART#
A	UnitedBuilt Mud Flap (Sold as Pair)	24" W x 36" L	18/Pair	000821
B	Anti Sail Mud Flap (Sold as Pair)	24" W x 36" L	26 Pair	003215
C	Fast Flap Mud Flap Hanger Kit, Minimizer 101227		10	010193
D	Mud Flap Hook		0.12	005925
	Mud Flap Extension 12 Gauge Steel	6" W x 24" L	4.5	008325
	Anti Sail Bracket	22" W x 21" L	2.5	004360



HYDRANT FILL

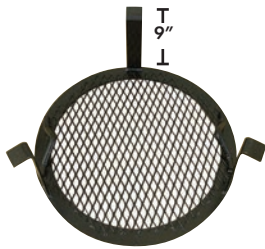
2 1/2" Black Pipe

INDEX	DESCRIPTION	WT/LB	PART#
A	Hydrant Fill 10' Tank	45	004018
A	Hydrant Fill 15' Tank	60	003475
B	2 1/2" Groove Coupling Rigidlok	2.8	000696
C	2 1/2" Groove 90°	2.77	000676
D	Hydrant Fill T-Nut (For 2.5" Coupler)	0.3	004815
E	Hydrant Fill Swing Spout	9	003476

HYDRANT FILL KITS

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

DESCRIPTION	WT/LB	PART#
10' Tank Hydrant Fill Kit	64	005910
15' Tank Hydrant Fill Kit	79	005909



MANWAY SCREEN

Drop in Screen for 25" Manway

DESCRIPTION	WT/LB	PART#
Manway Screen for 25" Manway	25	007481



QUICK DUMP

Newton Kwik Dump Valve

DESCRIPTION	MODEL	WT/LB	PART#
10" Gate Style Quick Dump Valve	1050	65	002263
Special Order			



FIRE HYDRANT ADAPTERS

Brass

DESCRIPTION	WT/LB	PART#
2 1/2" Male NPT x 2 1/2" Female Phoenix	2.5	003000
2 1/2" Male NPT x 2 1/2" Female NST	2	003002
2 1/2" Male NPT x 2 1/2" Female NST Swivel	2.72	003405
2 1/2" Male NPT x 2 1/2" Male NST	1.5	003802
2 1/2" Female NPT x 2 1/2" Female NST Swivel	3.53	003626
2 1/2" Female NPT x 2 1/2" Male NST	1.49	004030
2 1/2" Female Phoenix x 2 1/2" Male NST	2.5	004268
2 1/2" Male NST x 2 1/2" Male NST	1.61	006024



ADJUSTABLE HYDRANT WRENCH

DESCRIPTION	WT/LB	PART#
Adjustable Hydrant Wrench	3	002999



TANK MANWAYS

UnitedBuilt Standard Manway 25" Diameter

DESCRIPTION	WT/LB	PART#
Manway Ring 25"	30	003565
Manway Lid for 25" Ring	19	009950
Manway Lid Handle	1	003394
Manway Hinge 4x4	1	001199
Manway Ring with Hinged Lid Assembly	50	001740



QUICK DUMP CHUTE 90°

Dump Chute for Newton Kwik Dump Valves

DESCRIPTION	MODEL	WT/LB	PART#
10" Slip On 90°	2090	34	004307
Special Order			



CHECK VALVES

Brass • Prevent Hydrant Fill Backflow

DESCRIPTION	WT/LB	PART#
2 1/2" Female NPT, Hammond UP967	5.74	007570
3" Female NPT, Hammond UP967	8.76	007624



STRAINER VALVE

Stainless Steel Basket • Filter Unwanted Solids

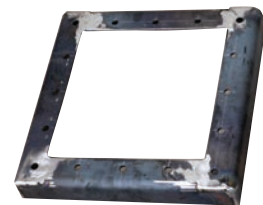
DESCRIPTION	WT/LB	PART#
2 1/2" Female NPT, Inline Y Strainer, Keckley	24	004293



MANWAY COVERS

Beets Inspection Covers & Sealing Lids

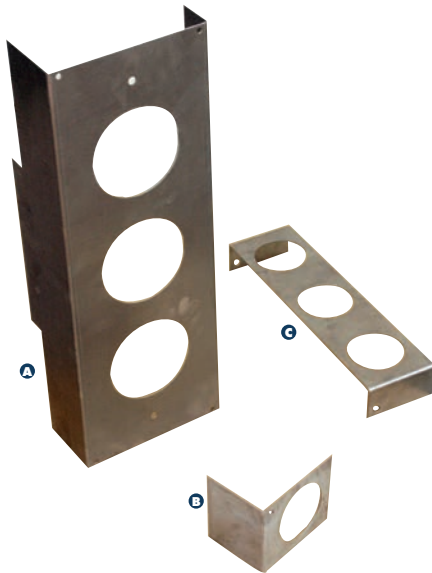
DESCRIPTION	DIAMETER	WT/LB	PART#
Inspection Cover Cad Plated	16"	14	009534
Inspection Cover Cad Plated	20"	18	004831
Vented Sealing Manway Lid	20"	33	001179
Manway Ring Steel	16"	5	009535
Manway Ring Stainless Steel	16"	5	009536
Manway Ring Steel	20"	9	005012
Manway Ring Stainless Steel	20"	9	004830



QUICK DUMP FLANGE

Mild Steel Shown

DESCRIPTION	WT/LB	PART#
Quick Dump Flange Mild Steel	4	006068
Quick Dump Flange Stainless Steel	4	003734
4-Bolt Strip	0.5	005518



LIGHT BRACKETS

INDEX	DESCRIPTION	WT/LB	PART#
A	Rear Light Bracket	4.50	007127
B	Marker Light Bracket	0.50	002085
C	ID Light Bracket	1	002101



TANK LIGHT KIT
Back Up, Stop, Turn & Marker Lights LED

INDEX	DESCRIPTION	QTY REQ	WT/LB EACH	PART#
A	Back Up Lamp LED	2	0.25	009310
B	Tail Lamp Red LED	4	0.25	009311
C	Pigtail Adapter for Part # 9310	2	0.06	009330
D	Marker Light Amber LED	2	0.10	009308
E	Marker Light Red LED	5	0.10	009309
F	Tail Light Grommet	6	0.17	003354
G	Marker Light Grommet	7	0.12	002928
H	License Plate Light (Mounts on 2" Centers)	1	0.25	003518
(A-H)	DOT Tank Light Kit LED		4.52	009312



WORK LIGHT
ECCO E92004
LED - 700 LUMENS

DESCRIPTION	MODEL#	WT/LB	PART#
Work Light LED	E92004	1.05	009504



STROBE AMBER
ECCO 7965A
LED

DESCRIPTION	MODEL#	WT/LB	PART#
Strobe Amber LED	7965A	1.77	009604



AMBER STROBE LIGHTBAR
WHELEN MC23PA
LED

DESCRIPTION	MODEL#	WT/LB	PART#
Strobe lightbar 23" LED	MC23PA	10	010119



LIGHT HARNESS KIT

UnitedBuilt
INDEX DESCRIPTION

INDEX	DESCRIPTION	MODEL#	QTY REQ	WT/LB EACH	PART#
A	6-Lamp Rear sill, 3 Marker Pig Tails	RA4610	1	2.65	009861
B	Single Marker 36" Long	MK4611	2	0.15	009862
C	Single Marker 90" Long	MK4612	2	0.36	009863
D	Triple Marker Pig Tail 138" Long (ID Harness)	ID4613	1	0.56	009864
(A-D)	Light Harness Kit (Revision May 2019)			4.26	009885

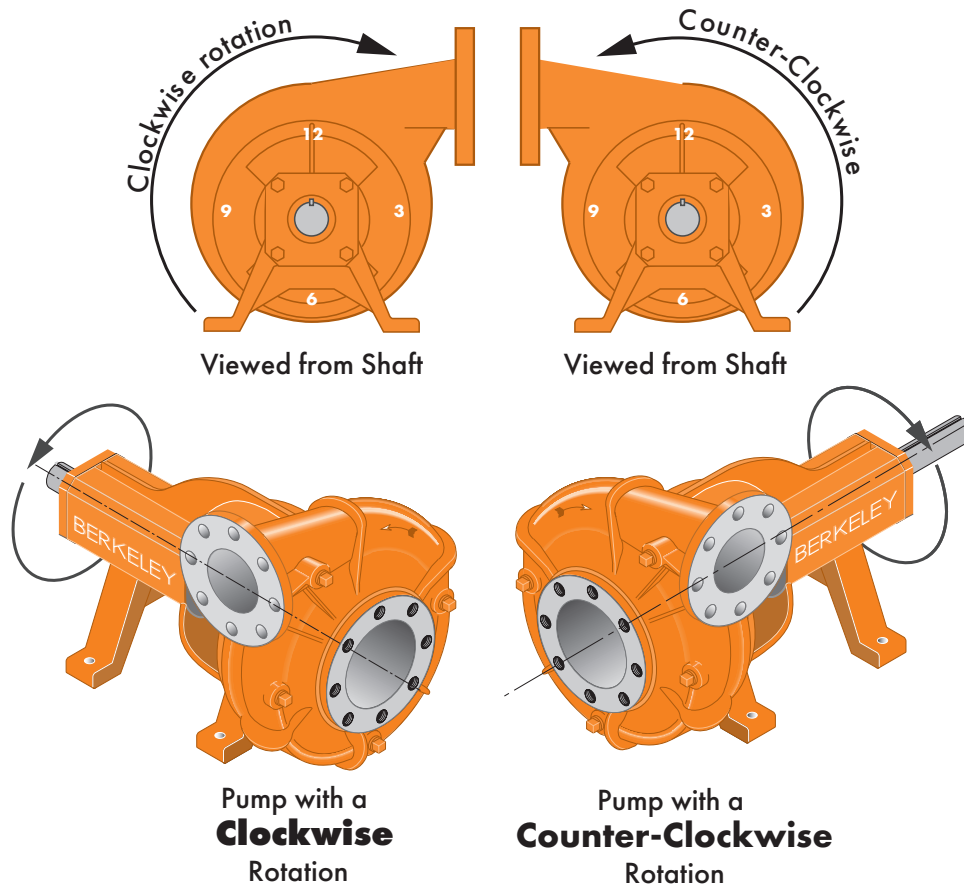


TRUCK ADAPTERS

UnitedBuilt

INDEX	DESCRIPTION	MODEL#	WT/LB	PART#
A	Kenworth Adapter Plug	AC4657	0.36	009887
B	Ford/Generic Adapter Plug	AC4656	0.37	009888

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

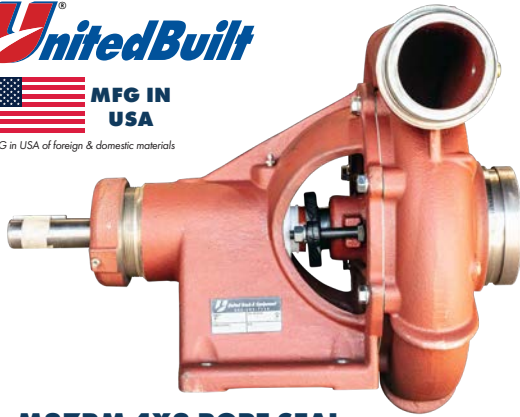
Pump volute **MUST BE** completely filled with water when operating.

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.



MFG in USA of foreign & domestic materials



M3ZRM 4X3 ROPE SEAL

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

DESCRIPTION	MODEL#	WT/LB	PART#
CW Pump, Grooved, Rope Seal (Pictured)	B66899MS	97	009762
CCW Pump, Grooved, Rope Seal	B66895MS	97	009335

Direct Berkeley Interchange • Heavy Duty Material • Precision Machined

UNITEDBUILT WATER TRUCK PUMPS

UnitedBuilt manufactures pumps from certified quality raw materials with precision casting, machining, balancing, and assembly maximizing performance and life cycle.

- Cast components are molded from SAE 30,000 PSI Gray Iron
- 1 1/2" Shaft with 1/4" Key
- Direct interchange with Berkeley B3ZRM(S) pumps



M3ZRMS 4X3 MECHANICAL SEAL

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

DESCRIPTION	MODEL#	WT/LB	PART#
CW Pump, Grooved, Mechanical Seal (Pictured)	B68417MS	97	009601
CCW Pump, Grooved, Mechanical Seal	B68416MS	97	009960

Direct Berkeley Interchange • Heavy Duty Material • Precision Machined

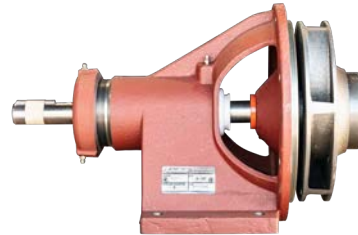


M3ZRM ROPE SEAL POWERHEADS

UNITEDBUILT

DESCRIPTION	MODEL#	WT/LB	PART#
CW Powerhead, Rope Seal (Pictured)	B85552MS	60	009752
CCW Powerhead, Rope Seal	B85551MS	60	009322

Direct Berkeley Interchange • Heavy Duty Material • Precision Machined

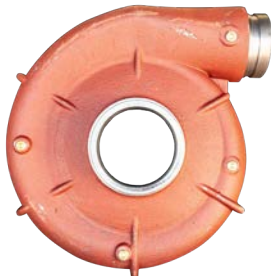


M3ZRMS MECHANICAL SEAL POWERHEADS

UNITEDBUILT

DESCRIPTION	MODEL#	WT/LB	PART#
CW Powerhead, Mechanical Seal (Pictured)	B85550MS	60	009965
CCW Powerhead, Mechanical Seal	B85549MS	60	009964

Direct Berkeley Interchange • Heavy Duty Material • Precision Machined



M3ZRM(S) VOLUTE CASES

UNITEDBUILT

DESCRIPTION	MODEL#	WT/LB	PART#
CW Volute Grooved	H04040MS	45	009795
CCW Volute Grooved (Pictured)	H04041MS	45	009331

Direct Berkeley Interchange • Heavy Duty Cast Iron • Precision Machined



M3ZRM(S) IMPELLERS

UNITEDBUILT

DESCRIPTION	MODEL#	WT/LB	PART#
CW Impeller (Pictured)	M02153MS	10	008517
CCW Impeller	M02181MS	10	008516

Direct Berkeley Interchange • Heavy Duty Cast Iron • Precision Machined



M3ZRM(S) RESEAL PARTS

UNITEDBUILT

INDEX	DESCRIPTION	MODEL#	PART#
A*, **	Volute Gasket	S05126MS	000954
B*, **	Grease Cap	S19033MS	009397
C*, **	Water Slinger, Polyurethane	S12260MS	002174
D*	Rope Packing Kit (Set of 6)	S14022MS	003924
E*	Bolt, Sq. Head 3/8"-16x2 1/2" (2 Req.)	S23762MS	000970
F*	Brass Nut, Hex 3/8"-16 (2 req.)	S23343MS	000969
G**	Mechanical Seal	S32690MS	009967
Inlcudes *	M3ZRM Rope Seal Kit		009807
Inlcudes **	M3ZRMS Mechanical Seal Kit		009808
H	Split Packing Gland	B82468MS	009946

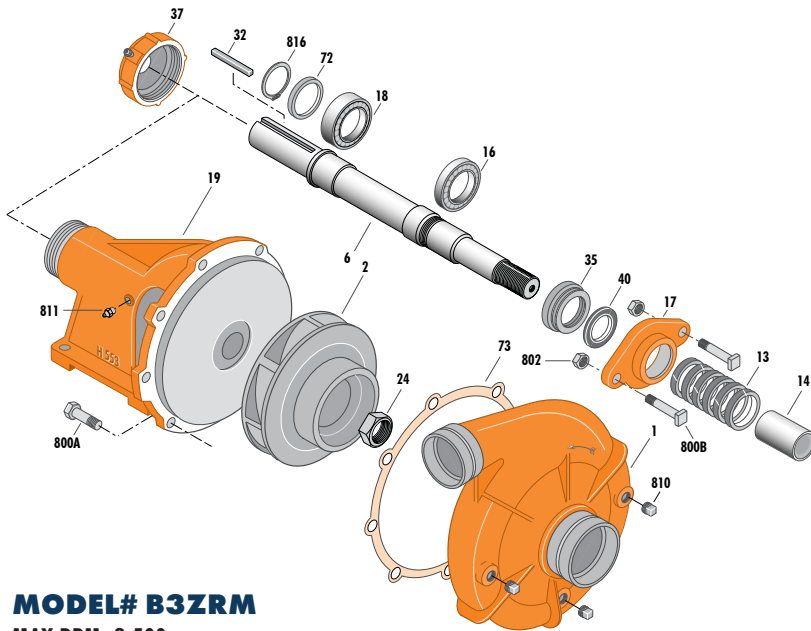


M3ZRM(S) SHAFT KITS

UNITEDBUILT

DESCRIPTION	MODEL#	WT/LB	PART#
CW Shaft Kit, Rope Seal	B80698MS	8	008111
CCW Shaft Kit, Rope Seal	B80696MS	8	008110
CW Shaft Kit, Mech Seal (Includes SS Snap Ring)	B80699MS	8	008115
CCW Shaft Kit, Mech Seal (Includes SS Snap Ring)	B80697MS	8	008113

Direct Berkeley Interchange • Precision Machined



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	DESCRIPTION	MODEL#	PART#
1	UnitedBuilt Volute Grooved (CW)	H04040MS	009795
1	UnitedBuilt Volute Grooved(CCW)	H04041MS	009331
1	Volute Case Threaded (CW)	H00689	Call
1	Volute Case Threaded(CCW)	H00698	Call
2	UnitedBuilt Impeller (CW)	M02153MS	008517
2	UnitedBuilt Impeller (CCW)	M02181MS	008516
17	UnitedBuilt Split Packing Gland	B82468MS	009946
19	UnitedBuilt Rope Seal Frame	H00553MS	010019
37	UnitedBuilt Outer Bearing Cap	S19914MS	000968
Not Shown	Spacer, Sleeve	S08980	000957
800A	Capscrew, Hex 3/8"-16x1" (8 Req.)	S26826	004543
Not Shown	Washer, Bearing Lock	S16181	003818
810A	Brass Hex Socket Plug 1/4" (4 Req.)	S23715	007639
811	Fitting, Grease	S23670	007855

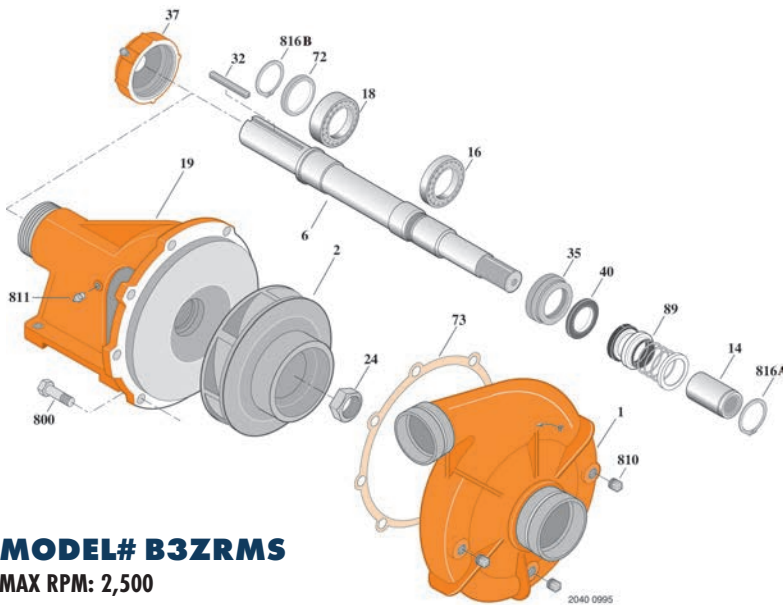
B3ZRM SHAFT KIT ROPE SEAL

UnitedBuilt shaft kits are made with StressProof Steel for extra strength

INDEX	DESCRIPTION	MODEL#	PART#
Includes *	UnitedBuilt Shaft Kit Rope (CW)	B80698MS	008111
Includes *	UnitedBuilt Shaft Kit Rope (CCW)	B80696MS	008110
*6	Shaft	N/A	N/A
*14	UnitedBuilt Shaft Sleeve	S39242MS	009958
*16	Bearing, Inboard	S13270MS	003149
*18	Bearing, Outboard	S13271MS	003158
*24	Nut, Impeller (CW) (1 Per Kit)	M10220	003146
*24	Nut, Impeller (CCW) (1 Per Kit)	U36-189SS	004379
*32	Shaft Key, 1/4" x 2 1/8"	S24255MS	006260
*72	UnitedBuilt Thrust Ring	S29218MS	009957
*816B	Snap Ring, Retaining External	S23010MS	003150

B3ZRM ROPE SEAL KIT

INDEX	DESCRIPTION	MODEL#	PART#
Includes **	Complete Rope Packing Seal Kit		009807
**13	Ring, Packing (Set of 6)	S14022MS	003924
**35	UnitedBuilt Inner Grease Cap	S19033MS	009397
**40	UnitedBuilt Poly Water Slinger	S12260MS	002174
**73	UnitedBuilt 4x3 Volute Gasket	S05126MS	000954
**800B	Bolt, Sq. Head 3/8"-16x2 1/2" (2 Req.)	S23762MS	000970
**802	Nut, Hex 3/8"-16 (2 req.)	S23343MS	000969



MODEL# B3ZRMS

MAX RPM: 2,500

RATED: 750GPM @ 65PSI

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

B3ZRMS REPAIR PARTS

INDEX	DESCRIPTION	MODEL#	PART#
1	UnitedBuilt Volute Grooved (CW)	H04040MS	009795
1	UnitedBuilt Volute Grooved(CCW)	H04041MS	009331
1	Volute Case Threaded (CW)	H00689	Call
1	Volute Case Threaded(CCW)	H00698	Call
2	UnitedBuilt Impeller (CW)	M02153MS	008517
2	UnitedBuilt Impeller (CCW)	M02181MS	008516
19	UnitedBuilt Mech Seal Frame	H04007MS	009982
37	Outer Bearing Cap	S19914MS	000968
Not Shown	Spacer, Sleeve	S08980	000957
800	Bolt, Hex 3/8"-16x1" (8 Req.)	S26826MS	004543
Not Shown	Washer, Bearing Lock	S16181	003818
810	Brass Hex Socket Plug 1/4" (4 Req.)	S23715MS	007639
811	Fitting, Grease	S23670MS	007855

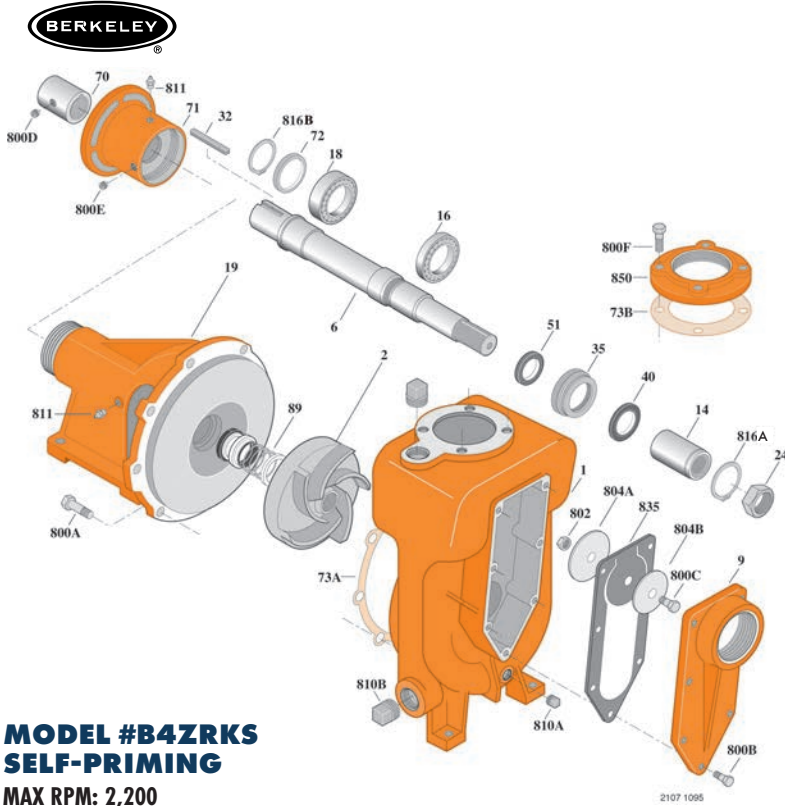
B3ZRMS SHAFT KIT MECHANICAL SEAL

UnitedBuilt shaft kits are made with StressProof Steel for extra strength

INDEX	DESCRIPTION	MODEL#	PART#
Includes *	UnitedBuilt Shaft Kit Mech (CW)	B80699MS	008115
Includes *	UnitedBuilt Shaft Kit Mech(CCW)	B80697MS	008113
*6	Shaft	N/A	N/A
*14	UnitedBuilt Shaft Sleeve	S39242MS	009958
*16	Bearing, Inboard	S13270MS	003149
*18	Bearing, Outboard	S13271MS	003158
*24	Nut, Impeller (CW) (1 Per Kit)	M10220	003146
*24	Nut, Impeller (CCW) (1 Per Kit)	U36-189SS	004379
*32	Shaft Key, 1/4" x 2 1/8"	S24255MS	006260
*72	UnitedBuilt Thrust Ring	S29218MS	009957
*816A	Snap Ring, Retaining External SS	S23009MS	002173
*816B	Snap Ring, Retaining External	S23010MS	003150

B3ZRMS MECHANICAL SEAL KIT

INDEX	DESCRIPTION	MODEL#	PART#
Includes **	Complete Mechanical Seal Kit		009808
**89	UnitedBuilt Mechanical Seal	S32690MS	009967
**35	UnitedBuilt Inner Grease Cap	S19033MS	009397
**40	UnitedBuilt Poly Water Slinger	S12260MS	002174
**73	UnitedBuilt 4x3 Volute Gasket	S05126MS	000954



**MODEL #B4ZRKS
SELF-PRIMING**

MAX RPM: 2,200

RATED: 550GPM @ 55PSI

DESCRIPTION	MODEL#	PART#
Berkeley CW Self Priming Water Pump w/ Hydraulic Adapter	B69876	002020
Aftermarket CW Self Priming Water Pump w/ Hydraulic Adapter	B69876	010018

B4ZRKS REPAIR PARTS

INDEX	DESCRIPTION	MODEL#	PART#
1	Volute Case	H02505	Call
2	Open Face Impeller	M08095	002176
9	Cover, Suction	L04108	002461
19	UnitedBuilt Mech Seal Frame	H04007MS	009982
70	UnitedBuilt Hydraulic Shaft Coupler	S30636MS	009848
71	Arms Bracket, Coupling Kit	B0779	009911
73B	Gasket, Blind Flange	S10364	003010
800A	Capscrew, Hex 3/8"-16x1" (8 Req.)	S26826	004543
800B	Capscrew, Hex 3/8"-16x1 1/4" (7 Req.)	S26828	Call
800C	Capscrew, Hex 3/8"-16x3/4"	S26824	003005
800D	Set Screw, Hex 1/2"	S23964	Call
800E	Set Screw, Hex 3/8" (2 Req.)	S23965	005122
800F	Capscrew, Hex 3/8"-11x1 1/4" (4 Req.)	S27001	003011
802	Nut, Hex 3/8-16	S23103	003008
804A	Weight Clack	S14842	003007
804B	Weight Clack	S15325	003006
810A	Plug, 1/2"	S23717	004541
810B	Plug, 1 1/2" (2 Req.)	S23695	006794
811	Grease Zerk (3 Req.)	S23670	007855
835	Clack Rubber	L04119	002210
850	Flange Companion	S15933	003009

B4ZRKS SHAFT KIT - HYDRAULIC DRIVE

INDEX	DESCRIPTION	MODEL#	PART#
Includes *	UnitedBuilt Shaft Kit Mech (CW)	B80703MS	009868
*6	Shaft	N/A	N/A
*14	UnitedBuilt Shaft Sleeve	S39242MS	009958
*16	Bearing, Inboard	S13270	003149
*18	Bearing, Outboard	S13271	003158
*24	Nut, Impeller [CW]	M10220	003146
*32	Shaft Key, 1/4" x 1"	S24168MS	010211
*72	UnitedBuilt Thrust Ring	S29218MS	009957
*816A	Snap Ring, Retaining External SS	S23009	002173
*816B	Snap Ring, Retaining External	S23010	003150

B4ZRKS MECHANICAL SEAL KIT

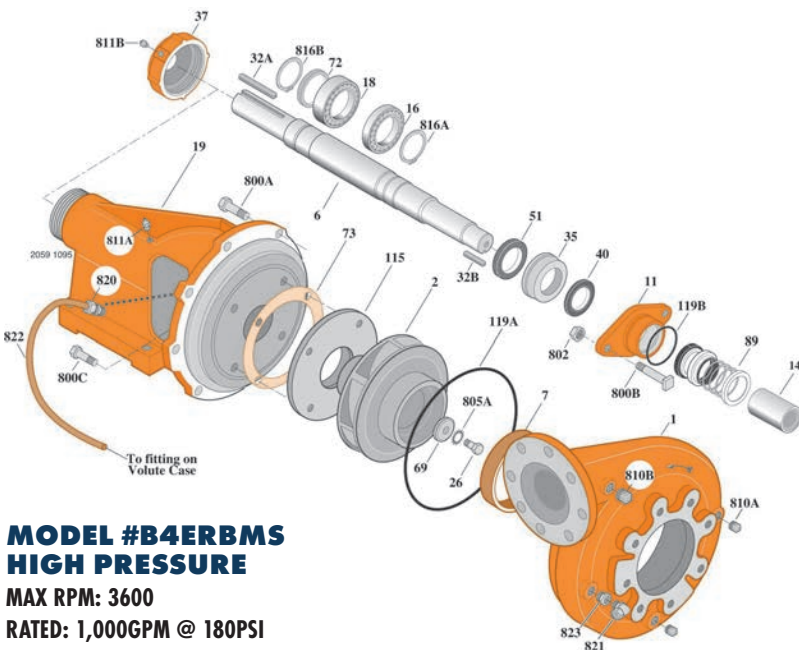
INDEX	DESCRIPTION	MODEL#	PART#
Includes **	Complete Mechanical Seal Kit		009808
*89	UnitedBuilt Mechanical Seal	S32690MS	009967
**35	UnitedBuilt Inner Bearing Cap	S19033MS	009397
**40	Water Slinger, Polyurethane	S12260	002174
**73	UnitedBuilt 4x3 Volute Gasket	S05126MS	000954

B4ERBMS REPAIR PARTS

INDEX	DESCRIPTION	MODEL#	PART#
1	Volute Case CW	H01939	004111
1	Volute Case CCW	H01940	009654
2	Impeller CW	L06015	004435
2	Impeller CCW	L06020	005239
7	Wear Ring	S32745	004415
11	Retainer Mechanical Shaft Seal	S11452	004531
26	Screw, Impeller 1/2-13x1 1/2"	S23623	004533
35	Inner Bearing Cap	S13213	005860
37	Outer Bearing Cap	S35277	009689
40	Slinger, Water	S10964	003636
51	Seal, Oil	S14764	004413
69	Washer, Impeller	S18117	004863
73	Gasket, Balance Ring	S09943	004029
89	Mechanical Seal, 1 1/8" Type 21	S32693MS	010176
115	Balance Ring	L03649	005859
119A	O-Ring	S13760	001936
119B	O-Ring	S24599	004414
800A	Capscrew, Hex 1/2-13x1 1/4" (8 Req.)	S26914	Call
800B	Bolt, SQ Head 1/2-13x2 1/4" (2 Req.)	S23792	004539
800C	Capscrew, Hex 3/8-16x1" (6 Req.)	S26826	004543
802	Nut, Hex 1/2-13x 7/16" (2 Req.)	S23347	003639
805A	Washer, Lock	S23038	004197

B4ERBMS SHAFT KIT

INDEX	DESCRIPTION	MODEL#	PART#
Includes *	Shaft Kit CW/CCW	B60659	005238
*6	Shaft	N/A	N/A
*14	Sleeve, Shaft	S05974L	004200
*16	Bearing, Inboard	S13395	004265
*18	Bearing, Outboard	S13754	004410
*32A	Key, 1/2"	S24214	006688
*32B	Key, 1/4"	S24170	006849
*72	Ring, Thrust	S19221	004411
*816A	Ring, Retaining Internal	S23016	004352
*816B	Ring, Retaining External	S23017	Call



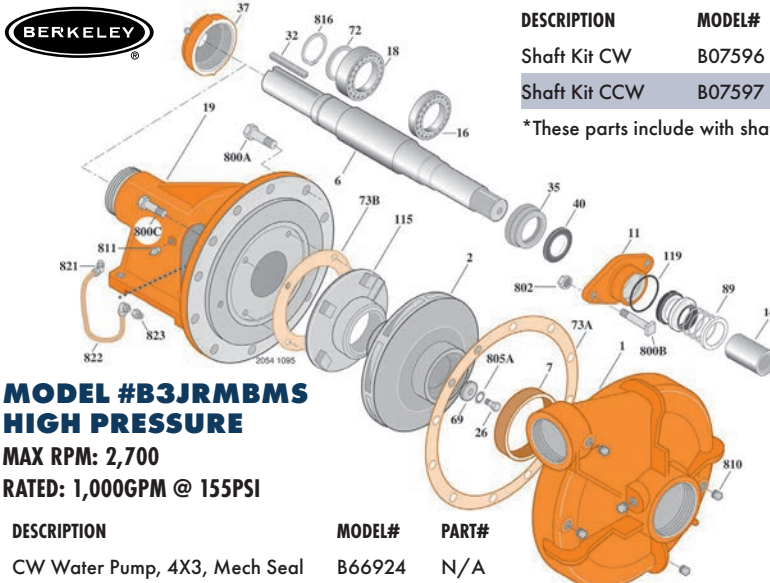
**MODEL #B4ERBMS
HIGH PRESSURE**

MAX RPM: 3600

RATED: 1,000GPM @ 180PSI

DESCRIPTION	MODEL#	PART#
Berkeley CW Water Pump 5X4	B73023	003844
Berkeley CCW Water Pump 5X4	B73027	003845

* PARTS MAY SHIP FROM FACTORY WITH SPECIAL ORDER TERMS *



**MODEL #B3JRBMS
HIGH PRESSURE**
MAX RPM: 2,700
RATED: 1,000GPM @ 155PSI

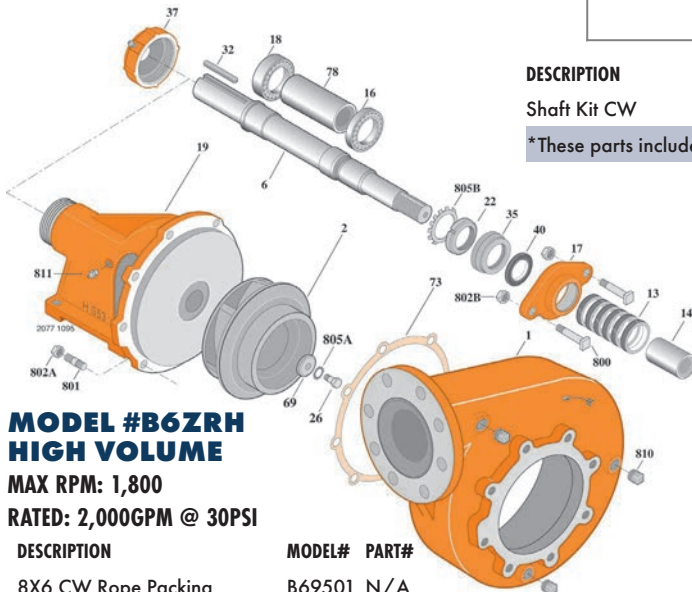
DESCRIPTION	MODEL#	PART#
CW Water Pump, 4X3, Mech Seal	B66924	N/A
CCW Water Pump, 4X3, Mech Seal	B61999	N/A

DESCRIPTION	MODEL#	PART#
Shaft Kit CW	B07596	Call
Shaft Kit CCW	B07597	Call

*These parts include with shaft kit

DISCONTINUED

INDEX	DESCRIPTION	MODEL#	PART#
1	Case, Volute CW	H01863	07088
1	Case, Volute CCW	H01892	09548
2	Impeller CW	L03038	04027
2	Impeller CCW	L03115	04688
*6	Shaft	N/A	N/A
7	Ring, Wearing	S04176	06179
11	Retainer, Mechanical Shaft Seal	S11452	04531
*14	Sleeve, Shaft	S05974	04200
*16	Bearing, Ball	S15604	04026
*18	Bearing, Ball	S13396	04264
19	Frame	H01838	N/A
26	Screw, Impeller 1/2-13x1-1/2"	S23623	04533
*32	Key, 1/2x4"	S24214	06688
35	Inner Bearing Cap	S05928	04032
37	Outer Bearing Cap Assembly	S35277	09689
40	Slinger, Water	M10964	03636
69	Washer, Impeller	S06319	04271
*72	Ring, Thrust	S06519	04351
73A	Gasket, Volute	S06271	04028
73B	Gasket, Balance Ring	S09943	04029
89	Seal, Mechanical Shaft	S32693	03917
115	Ring, Balance	M05073	N/A
119	O-Ring	S26471	04537
800A	Capscrew, Hex 3/8-11x1 1/2" (12 Req)	S26999	N/A
800B	Bolt, Sq Head 1/2-13x2 1/4" (2 Req)	S23792	04539
800C	Capscrew, Hex 3/8-16x1" (4 Req)	S26826	04543
802	Nut, Hex 1/2-13x7/16" (2 Req)	S23347	03639
805A	Washer, Lock	S23038	04197
810	Plug, Pipe 1/2" NPT (6 Req)	S23717	04541
811	Fitting, Grease	S23670	07855
*816	Ring, Retaining	S23016	04352



**MODEL #B6ZRH
HIGH VOLUME**
MAX RPM: 1,800
RATED: 2,000GPM @ 30PSI

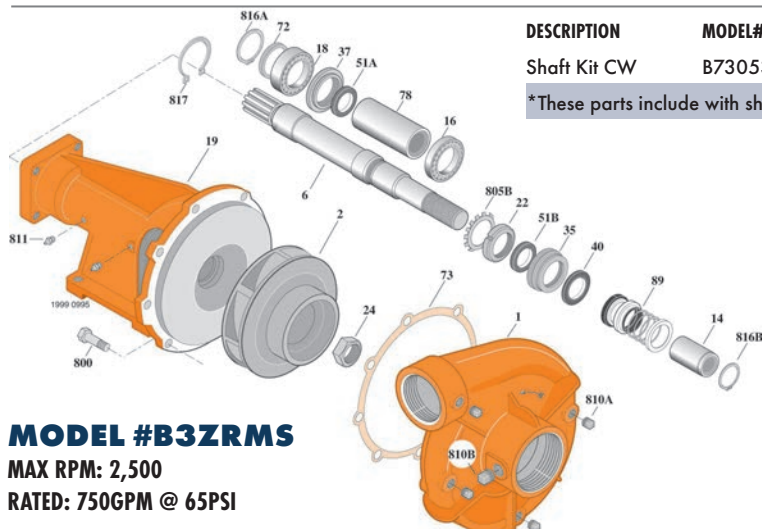
DESCRIPTION	MODEL#	PART#
8X6 CW Rope Packing	B69501	N/A
8X6 CW Sq. Discharge, Rope	B56372	N/A

DESCRIPTION	MODEL#	PART#
Shaft Kit CW	B82184	N/A

*These parts include with shaft kit

DISCONTINUED

INDEX	DESCRIPTION	MODEL#	PART#
1	Case, Volute	H05065	N/A
Not Shown	Volute Sq Discharge	H01750	N/A
2	Impeller CW	M04186	00950
**13	Ring, Packing (Set of 6)	S14022	03924
*14	Sleeve, Shaft	S05127L	02916
*16	Bearing, Ball	S13270	03149
17	UnitedBult Split Packing Gland	B82468MS	09946
*18	Bearing, Ball	S13271	N/A
19	UnitedBult Rope Seal Frame	H00553MS	10019
22	Locknut	M10221	03819
26	Screw, Impeller 3/8-16x1 3/4"	S23572	N/A
*32	Key, 1/4x2 1/2"	S24255	06260
**35	Inner Bearing Cap	S19033MS	09397
37	Outer Bearing Cap	S19914	09668
**40	Slinger, Water	S12260	02174
69	Washer, Impeller	S06314	02647
**73	Gasket, Volute	S05126	00954
*78	Sleeve, Spacer	S08980	00957
**800	Bolt, Sq Head 3/8-16x2 1/2" (2 Req)	S23762	00970
801	Stud, 3/8-16x1 1/4" (8 Req)	S23994	04227
802A	Nut, Hex 3/8-16 (8 Req)	S23103	03008
**802B	Nut, Hex 3/8-16 (2 Req)	S23343	00969
805A	Washer, Lock	S23036	02694
805B	Washer, Bearing Lock	S16181	03818
Includes **	Complete Rope Packing Seal Kit		09807



MODEL #B3ZRMS
MAX RPM: 2,500
RATED: 750GPM @ 65PSI

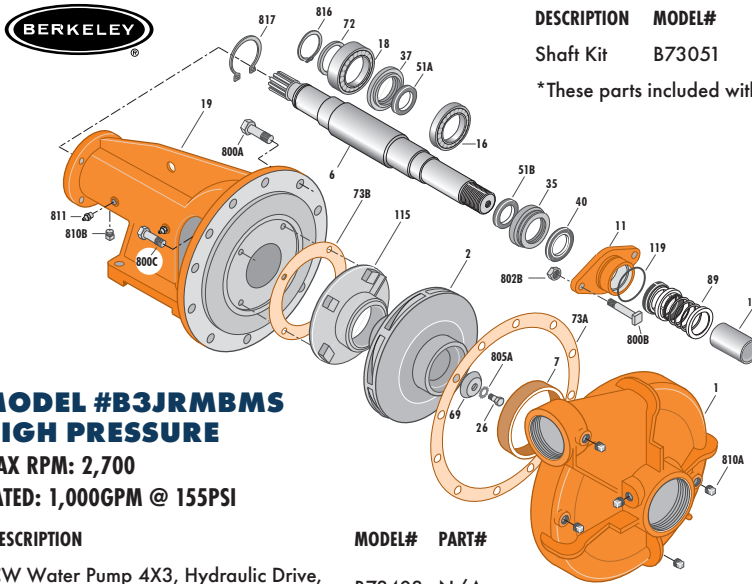
DESCRIPTION	MODEL#	MEGA#	PART#
CW Water Pump, 4x3, Splined Shaft, Hydraulic Drive, Mechanical Seal	B69875	302001	03931

DESCRIPTION	MODEL#	PART#
Shaft Kit CW	B73053	Call

*These parts include with shaft kit

INDEX	DESCRIPTION	MODEL#	PART#
1	Volute Case (CW) Threaded	H00689	Call
2	UnitedBult Impeller CW	M02153MS	08517
*14	UnitedBult Shaft Sleeve	S39242MS	09958
*16	Single Row Ball Brg.	S13270	03149
*18	Double Row Ball Brg.	M10218	03148
19	Frame	H05119	04544
*22	Brg. Lock Nut	M10221	03819
24	Locknut, Impeller	M10220	03146
*35	Drip Brg. Cap	M10213	03004
*37	Outer Brg. Cap	M10214	N/A
40	Slinger, Water	S12260	02174
*51A	Lip Oil Seal	M10217	03153
*51B	Lip Oil Seal	M10216	03003
*72	Thrust Washer	M10222	03152
73	Case Gasket	S05126	00954
*78	Spacer Sleeve	M10215	N/A
89	UnitedBult Mechanical Seal	S32690MS	09967
800	Cap Screw 3/8-16x1" (8 Req)	S26826	04543
*805B	Lock Washer, Brg.	S16181	03818
810A	Pipe Plug 1/4" NPT	S23715	07639
811	Grease Fitting	S23670	07855
*816A	Retaining Ring Ext.	S23010	03150
*816B	Retaining Ring Ext.	S23009	02173
*817	Retaining Ring Int.	S23023	N/A

*** PARTS MAY SHIP FROM FACTORY WITH SPECIAL ORDER TERMS ***



**MODEL #B3JRMBS
HIGH PRESSURE**

MAX RPM: 2,700
RATED: 1,000GPM @ 155PSI

DESCRIPTION

CW Water Pump 4X3, Hydraulic Drive,
Mechanical Seal

MODEL# PART#

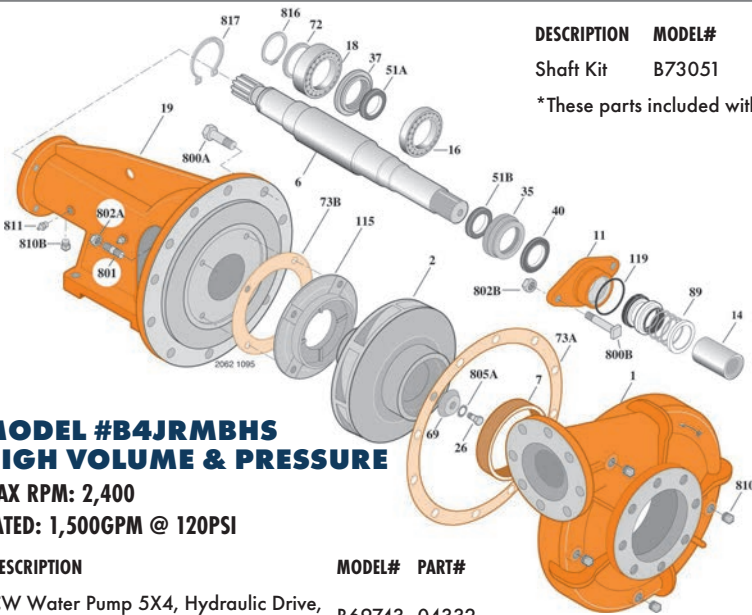
B73403 N/A

DESCRIPTION	MODEL#	PART#
Shaft Kit	B73051	N/A

*These parts included with shaft kit

INDEX	DESCRIPTION	MODEL#	PART#
1	Volute, Case CW 4X3 NPT	H01863	N/A
2	Impeller	L03038	Call
*6	Shaft	H05105	04348
7	Ring, Wearing	S04176	06179
11	Retainer, Mechanical Shaft Seal	S11452	04531
*14	Sleeve, Shaft	S05974	04200
*16	Bearing, Ball	S15604	04026
*18	Bearing, Ball	M10184	04349
*26	Screw, Impeller 1/2-13x1-1/2"	S23623	04533
35	Inner Bearing Cap	M10200	04534
*37	Outer Bearing Cap	M10209	04535
40	Slinger, Water	S10964	03636
*51A	Seal, Oil	M10210	04350
*51B	Seal, Oil	S14765	04196
*69	Washer, Impeller	S19275	N/A
*72	Ring, Thrust	S06519	04351
73A	Gasket, Volute	S06271	04028
73B	Gasket, Balance Ring	S09943	04029
89	Seal, Mechanical Shaft	S32693	03917
115	Ring, Balance	M05073	N/A
119	O-Ring	S26471	04537
800A	Capscrew, Hex 3/8-11x1-1/2" (12 Req)	S26999	N/A
800B	Bolt, Sq Head 1/2-13x2-1/4 (2 Req)	S23792	04539
800C	Capscrew, Hex 3/8-16x1" (4 Req)	S26826	04543
802	Nut, Hex 1/2-13x7/16 (2 Req)	S23347	03639
*805A	Washer, Lock	S23038	04197
810A	Plug, Pipe 1/2" NPT (4 Req)	S23717	04541
810B	Plug, Pipe 1/4" NPT	S23715	04542
811	Fitting, Grease (2 Req)	S23670	07855
*816	Ring, Retaining	S23016	04352
*817	Ring, Retaining	S23025	04353

DISCONTINUED



**MODEL #B4JRMBS
HIGH VOLUME & PRESSURE**

MAX RPM: 2,400
RATED: 1,500GPM @ 120PSI

DESCRIPTION

CW Water Pump 5X4, Hydraulic Drive,
Mechanical Seal

MODEL# PART#

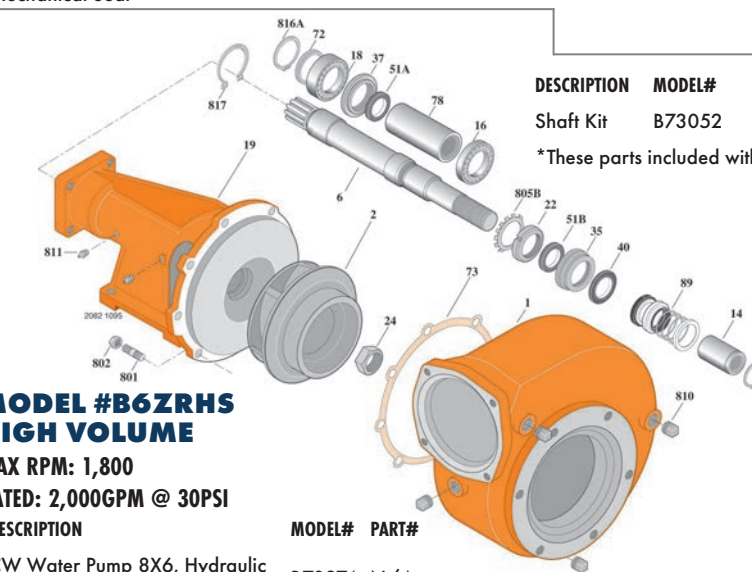
B69743 04332

DESCRIPTION	MODEL#	PART#
Shaft Kit	B73051	Call

*These parts included with shaft kit

INDEX	DESCRIPTION	MODEL#	PART#
1	Volute, Case CW 5X4 Flanged	H03843	Call
2	Impeller CW	L05976	04423
*6	Shaft	H05105	04348
7	Ring, Wearing	S02894	04530
11	Retainer, Mechanical Seal	S11452	04531
*14	Shaft Sleeve	S05974	04200
*16	Bearing, Ball (Inner)	S15604	04026
*18	Bearing, Ball (Outer)	M10184	04349
*26	Screw, Impeller 1/2-13x2-1/4"	S23623	04533
35	Inner Bearing Cap	M10200	04534
*37	Outer Bearing Cap	M10209	04535
40	Slinger, Water	S10964	03636
*51A	Seal, Oil	M10210	04350
*51B	Seal, Oil	S14765	04196
*69	Washer, Impeller	S19275/M14217	07155
*72	Ring, Thrust	S06519	04351
73A	Gasket, Volute	S06271	04028
73B	Gasket, Balance Ring	S09943	04029
89	Seal, Mechanical Shaft	S32693	03917
115	Ring, Balance	S13591	04536
119	O-Ring	S26471	04537
800A	Capscrew, Hex 3/8-11x1-1/2" (12 Req)	S26999	N/A
800B	Bolt, Sq Head 1/2-13x2-1/4 (2 Req)	S23792	04539
801	Stud, 3/8-16x1-1/2" (4 Req)	S23995	04540
802A	Nut, Hex 3/8-16 (4 Req)	S23103	03008
802B	Nut, Hex 1/2-13x7/16 (2 Req)	S23347	03639
*805A	Washer, Lock	S23038	04197
810A	Plug, Pipe 1/2" NPT (4 Req)	S23717	04541
810B	Plug, Pipe 1/4" NPT	S23715	04542
811	Fitting, Grease (2 Req)	S23670	07855
*816	Ring, Retaining	S23016	04352
*817	Ring, Retaining	S23025	04353

DISCONTINUED



**MODEL #B6ZRH5
HIGH VOLUME**

MAX RPM: 1,800
RATED: 2,000GPM @ 30PSI

DESCRIPTION

CW Water Pump 8X6, Hydraulic
Drive, Mechanical Seal

MODEL# PART#

B70374 N/A

DESCRIPTION	MODEL#	PART#
Shaft Kit	B73052	N/A

*These parts included with shaft kit

INDEX	DESCRIPTION	MODEL#	PART#
1	Case, Volute CW 8X6 Flanged	H01750	N/A
2	Impeller CW	M04186	00950
*6	Shaft	L07261	N/A
*14	UnitedBuilt Shaft Sleeve	S39242MS	09958
*16	Bearing, Ball	S13270	03149
*18	Bearing, Ball	M10218	03148
19	Frame	H05119	04544
*22	Locknut	M10221	03819
*24	Locknut, Impeller	M10220	03146
*35	Inner Bearing Cap	M10213	03004
*37	Outer Bearing Cap	M10214	N/A
40	Slinger, Water	S12260	02174
*51A	Seal, Oil	M10217	03153
*51B	Seal, Oil	M10216	03003
*72	Ring, Thrust	M10222	03152
73	Gasket, Volute	S05126	00954
*78	Sleeve, Spacer	M10215	N/A
89	UnitedBuilt Mechanical Seal	S32690MS	09967
801	Stud, 3/8-16x1 1/2 (8 Req)	S23995	04540
802	Nut, Hex 3/8-16 (8Req)	S23103	03008
*805B	Washer, Bearing, Lock	S16181	03818
810	Pipe, Plug 1/2" NPT (4 Req)	S23717	04541
811	Fitting, Grease (2 Req)	S23670	07855
*816A	Ring, Retaining	S23010	03150
*816B	Ring, Retaining	S23009	02173
*817	Ring, Retaining	S23023	N/A

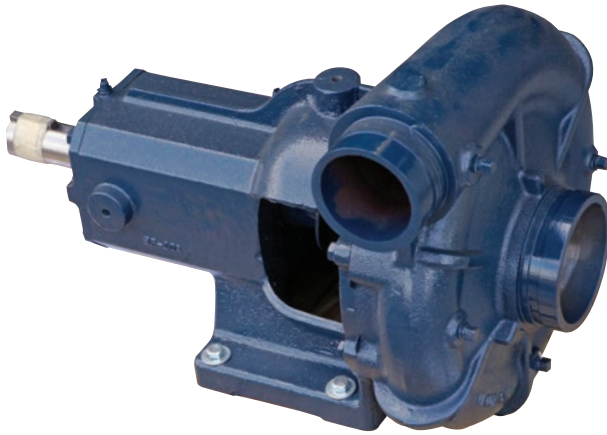
* PARTS MAY SHIP FROM FACTORY WITH SPECIAL ORDER TERMS *



MODEL #XS-439 HEAVY-DUTY

MAX RPM: 3,000 • RATED: 800GPM @ 95PSI

Heavy-duty, 4X3, cast iron centrifugal water pump. Heavy-duty Bearing Frame • Rugged shaft made with StressProof® Steel • Hefty Double Keyed Impeller Mount • Shaft 1 1/2" x 3/8" key



DESCRIPTION

CW 439M Water Pump, Groove, Mechanical Seal
CCW 439M Water Pump, Groove, Mechanical Seal

MODEL# PART#

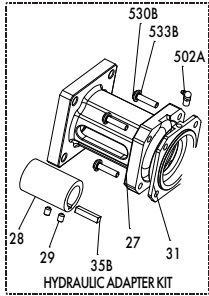
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65040309401 006988

XS-439 REPAIR PARTS

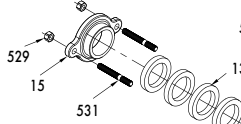
INDEX	DESCRIPTION	MODEL#	PART#
1	Volute Case, CW Groove	305462019	007281
1	Volute Case, CCW Groove	305462035	007280
2	Impeller CW	305462008	007078
2	Impeller CCW	305462036	007077
*5	Shaft	See Shaft Kit	Sold as Kit
9	Bearing Cap Frame Cover	305462021	007308
*12	Shaft Sleeve	305462022	007752
13	Rope Packing Set	305731917	007739
15	Packing Gland (2 Piece)	305462033	007740
*16	Bearing, Pump Side	305462025	008285
*17	Bearing, Drive Side	305463145	007073
26A	Lip Seal, Pump Side	305463148	008157
26B	Lip Seal, Drive Side	305463184	008121
30	Mechanical Seal Retaining Ring	305462028	007366
*35A	Shaft Key, Impeller Side (2 Pack)	305450006	008276
* **35B	Shaft Key, Drive Side (2 Pack)	305464032	007616
*38	Bearing Nut	305463039	009576
*39	Bearing Lock Washer	305463042	009577
90	Mechanical Shaft Seal	305462029	007079
100	Volute Case Gasket	305463138	008279
**502A	Grease Zerk Straight (3-Pack)	305463160	Call
503	Water Slinger	305464015	008271
510	Impeller Hex Cap Screw	305462030	008277
520	Impeller Washer	305462031	008278
525	Impeller Lock Washer	305462032	008272
530A	Hex Capscrew (8-Pack)	305463053	008323
**530B	Hex Capscrew (8-Pack)	305463053	008323
**533B	Lock Washer (8-Pack)	305463135	008324
Includes *	Shaft Kit	305462100	007076

XS-439 HYDRAULIC MOUNT PARTS

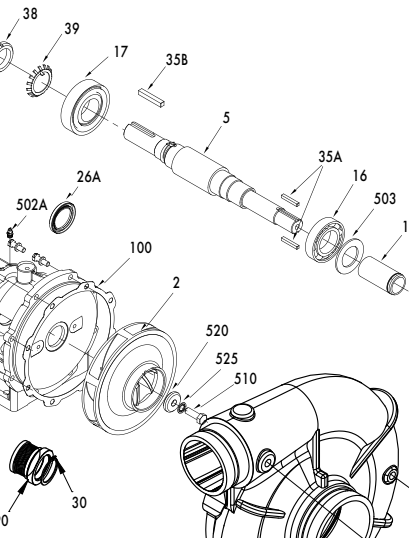
INDEX	DESCRIPTION	MODEL#	PART#
**27	Hydraulic Motor Mount SAEB	305462039	Call
**28	Hydraulic Motor Coupling SAEB	305462041	009379
**29	Hydraulic Coupling Set Screw (2-Pack)	305462043	Call
**31	Hydraulic Lip Seal Adapter Plate	305462045	Call
Includes **	Hydraulic Motor Mount Kit with Bracket, Coupling and Hardware	305731905	007151



HYDRAULIC ADAPTER KIT

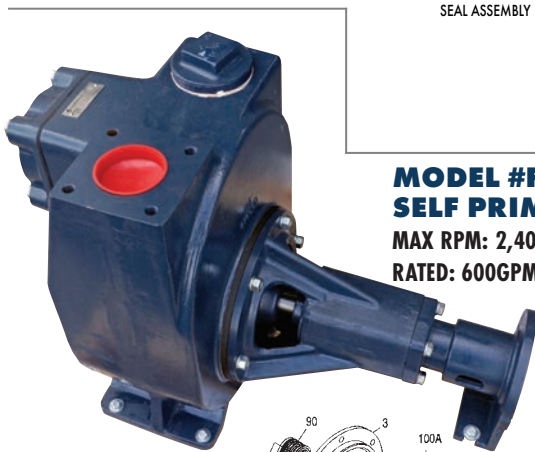


PACKING GLAND ASSEMBLY



SEAL ASSEMBLY

VICTAULIC VOLUTE



MODEL #FMIH-40 HEAVY-DUTY 4X4 SELF PRIMING PUMP

**MAX RPM: 2,400
RATED: 600GPM @ 45PSI**

The FMIH-40 heavy-duty self priming pumps are of all iron construction and feature a large self priming capacity.

- Stainless Steel Shaft.
- Semi-open impeller with replaceable wear plate.
- Viton and Stainless steel mechanical seal.
- Cast gray iron casing with large self priming capacity

DESCRIPTION

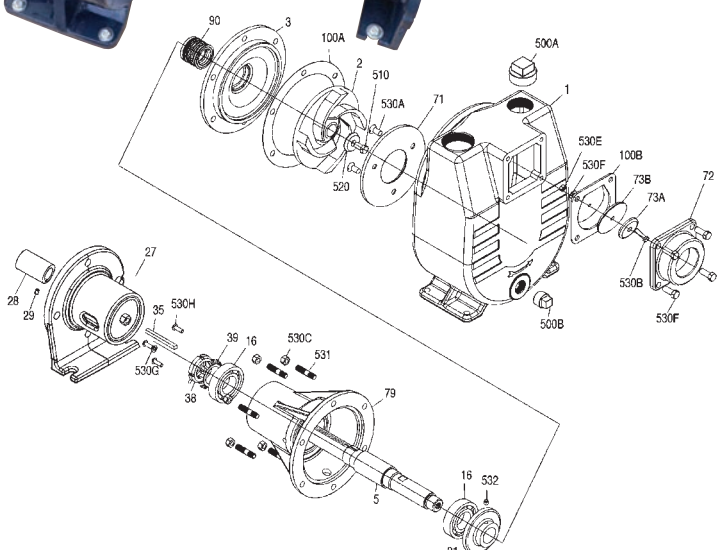
FMIH-40 4X4 Self Priming Water Pump

MODEL# PART#

90295004 005460

FMIH-40 REPAIR PARTS

INDEX	DESCRIPTION	MODEL#	PART#
1	Volute Case, Impeller Housing	305455003	006876
2	Impeller	305455006	005940
3	Seal Plate	305454009	006188
5	Shaft	305454015	009579
16	Ball Bearing (2 Req.)	305463036	009580
27	Hydraulic Adapter Bracket	305455017	009383
28	Hydraulic Adapter Coupling	305455016	008433
29	Set Screw (2 Pack) 3/8"-16	305463198	008434
35	Shaft Key	305454017	008438
38	Bearing Nut	305463039	009576
39	Bearing Lockwasher	305463042	009577
71	Wear Plate	305455009	006494
73A	Top Weight - Check Valve	305454023	007888
73B	Bottom Weight - Check Valve	305454025	007887
79	Transmission Head	305454033	009578
81	Seal Cover	305454039	006186
90	Mechanical Shaft Seal	305463044	009582
100A	Volute Case Gasket	305454042	009584
100B	Flapper Valve	305454045	006955
520	Impeller Washer	305455015	007412
530A	Wear Plate Bolts (6 Pack) 3/8"-16 x 3/4" SS	305463079	007371
530B	Flapper Bolt	305463081	007886
530C	Hex Nuts (6 Pack)	305463059	008437
532	Set Screw (2 Pack)	305463075	009581





MODEL A39VRMS

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

DESCRIPTION	ARMS#	PART#
CW Water Pump, Grooved, Mechanical Seal	BM-1306	009907
CCW Water Pump, Grooved, Mechanical Seal	BM-1303	009906

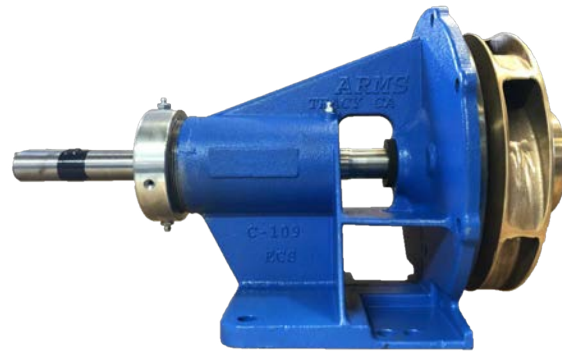
MODEL A39RM

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

DESCRIPTION	ARMS#	PART#
CW Water Pump, Threaded, Rope Seal	BM-1085	009926
CCW Water Pump, Threaded, Rope Seal	BM-1086	009912

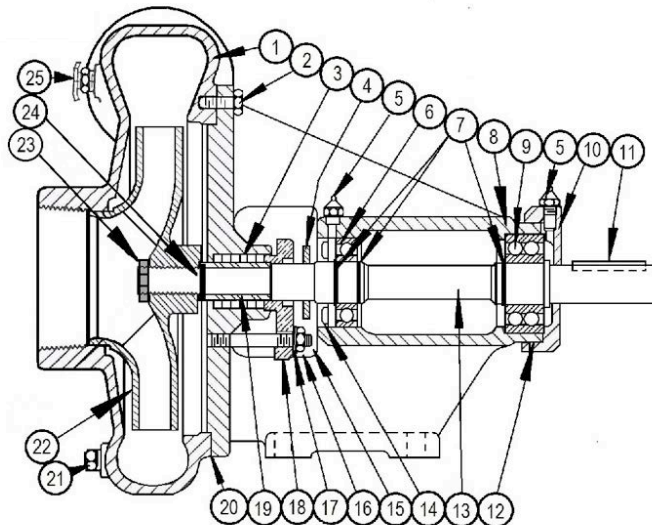
POWER HEAD ASSEMBLY

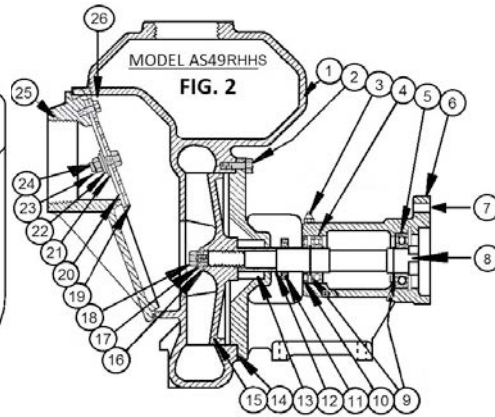
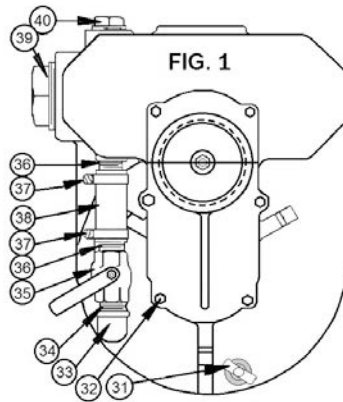
DESCRIPTION	ARMS#	PART#
CW Power Head, Mechanical Seal	BM-1306PF	009914
CCW Power Head, Mechanical Seal	BM-1303PF	009951
CW Power Head, Rope Seal	BM-1085PF	010340
CCW Power Head, Rope Seal	BM-1086PF	009993



A39 REPAIR PARTS

INDEX	DESCRIPTION	ARMS#	PART#
1	Volute Case, CW Groove	B-187	009987
1	Volute Case, CCW Groove	B-188	010009
1	Volute Case CW Threaded	D-106	009942
1	Volute Case CCW Threaded	D-108	009915
2	Capscrew 3/8"-16x7/8" (8 Req.)	A-445	004819
3**	Rope Packing (Set of 6)	A-281	003924
3*	Mechanical Seal	A-393	009967
4*, **	Water Slinger	A-279	009918
5	Grease Zerk, 1/8" NPT	A-327	007855
8	Pump Bracket	C-109	Call
10	Bearing Cap	A-233	Call
11	Shaft Key, 1/4" x 2 1/8"	A-322	006260
12	Set Screw 1-31 X 1/2"	A-447	Call
13	Shaft Kit CW	BM-1165	009913
13	Shaft Kit CCW	BM-1166	009949
14*, **	Grease Seal	A-280	009928
15**	Rope Packing Stud 3/8"	A-412	009973
16**	Rope Packing Hex Nut	A-413	009922
17**	Rope Packing Flat Washer	A-414	009974
18	Rope Packing Gland	A-339	009916
19	Shaft Sleeve	A-277	010171
20*, **	Volute Case Gasket	A-268	000954
22	Impeller CW	A-198	009953
22	Impeller CCW	A-199	010010
23	Impeller Jam Nut CW	M10220	003146
23	Impeller Jam Nut CCW	US36-189SS	004379
24	Thrust Washer	A-791	009929
25	Drain Valve 1/4" NPT	A-488	007626
Includes*	Mechanical Seal Kit		009924
Includes**	Rope Seal Kit		009925





MODEL AS49RHS

CAST IRON SELF-PRIMING PUMP 4X4

MAX RPM: 2,400

RATED: 600GPM @ 60PSI

DESCRIPTION

Self-Priming, Hydraulic Drive, Mechanical Seal

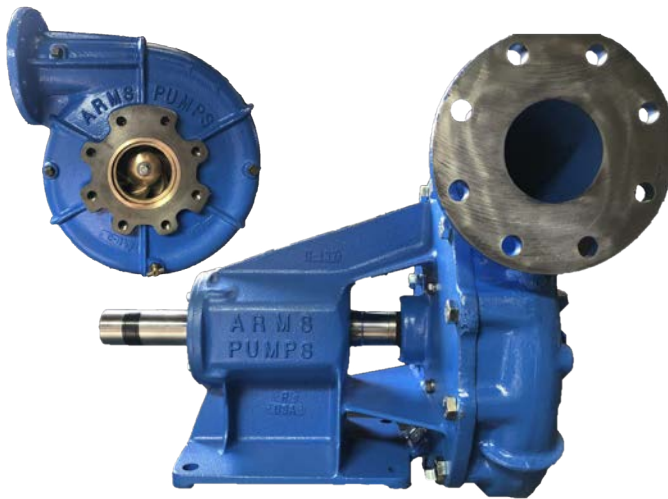
ARMS#

PART#

BM-1336 009923

AS49RHS REPAIR PARTS

INDEX	DESCRIPTION	ARMS#	PART#
1	Volute Case	C-140	Call
2	Capscrew 3/8-16x7/8"	A-445	004819
3	Grease Fitting	A-327	007855
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	009928
11	Water Slinger	A-279	009918
12	Shaft Sleeve	A-277	010171
13	Mechanical Seal	A-393	Call
14	Volute Case Gasket	A-268	000954
15	Impeller Open Face	A-419	009963
16	Impeller Washer	A-278	010172
17	Lockwasher 3/8" Split SS	A-488	Call
18	Capscrew 3/8-16x1"	A-417	004543
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	007626
35	Ball Valve Brass 3/4" FNPT	A-469	001511



MODEL A413RMS

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

MAX RPM: 2,400

RATED:1,200GPM @ 135PSI

DESCRIPTION

CW 5X4 Pump, Flanged, Mechanical Seal

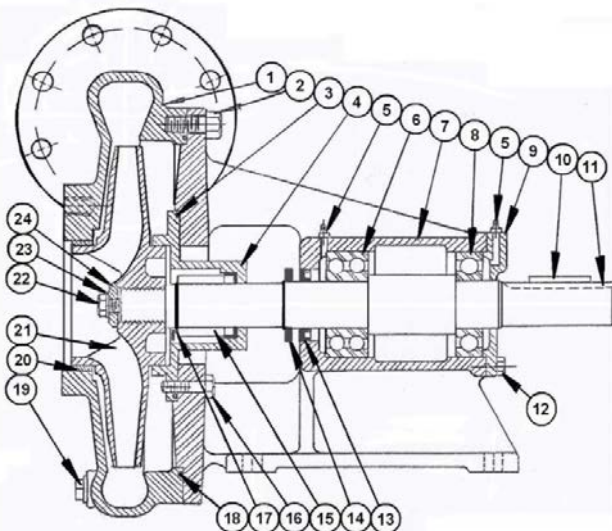
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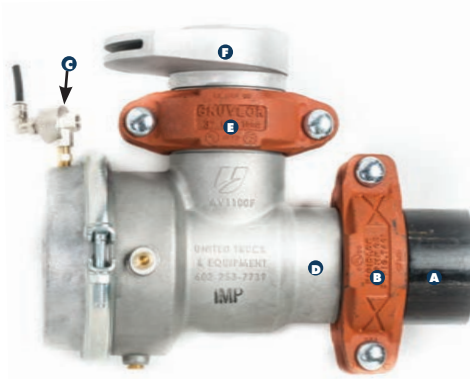
PART#

BM-1373S 009927

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	007855
6	Ball Bearing, Pulley End	A-283	Call
8	Ball Bearing, Pump End	A-286	Call
9	Bearing Cap	A-264	Call
10	Key, 1/2" x 2-1/2"	A-566	Call
11	Shaft Kit CW	BM-1356	Call
12	Cap Screw 1/2-20x5/8"	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, 1/2" NPT	A-555	006869
20	Wear Ring	A-573	Call
21	Impeller 13" CW	A-570	Call
22	Capscrew 1/2"	A-439	Call
23	Split Lockwasher 1/2"	A-491	Call
24	Impeller Washer	A-571	Call





AV1100 ADJUSTABLE SPRAY HEAD KIT
UnitedBuilt • Air-to-Close

ID	DESCRIPTION	QTY		PART#
		REQ	EACH	
A	3" Weld x Groove Nipple	1	2	001486
B	3" Groove Coupling Rigidlok	1	4	000697
C	1/8" Quick Exhaust Valve Assembly	1	1	009786
D	AV1100 Air Operated Valve	1	9	008030
E	3" Groove Coupling	1	3	000687
F	BC2399 Adjustable Fan Nozzle	1	3	003484
(A-F)	AV1100 BC2399 Adj Fan Spray Head Kit	22		K004038

AV1100 SIDE SPRAY HEAD KIT
UnitedBuilt • Air-to-Close

ID	DESCRIPTION	QTY		PART#
		REQ	EACH	
A	3" Weld x Groove Nipple	1	2	001486
B	3" Groove Coupling Rigidlok	1	4	000697
C	1/8" Quick Exhaust Valve Assembly	1	1	009786
D	AV1100 Air Operated Valve	1	9	008030
E	3" Groove Coupling	1	3	000687
F	MP2200 Side Nozzle	1	2	007790
(A-F)	AV1100 MP2200 Side Spray Head Kit	21		K004036

AV1100 DUCKBILL SPRAY HEAD KIT
UnitedBuilt • Air-to-Close

ID	DESCRIPTION	QTY		PART#
		REQ	EACH	
A	3" Weld x Groove Nipple	1	2	001486
B	3" Groove Coupling Rigidlok	1	4	000697
C	1/8" Quick Exhaust Valve Assembly	1	1	009786
D	AV1100 Air Operated Valve	1	9	008030
E	3" Groove Coupling	1	3	000687
F	BC2178 Flusher Duckbill Nozzle	1	2	001043
F	BC2179 Side Duckbill Nozzle	1	2	001045
F	BC2384 Fan Duckbill Nozzle	1	2	001048
(A-F)	AV1100 BC2178 Flusher Spray Head Kit	21		K004037
(A-F)	AV1100 BC2179 Side Spray Head Kit	21		K005081
(A-F)	AV1100 BC2384 Fan Spray Head Kit	21		K004588

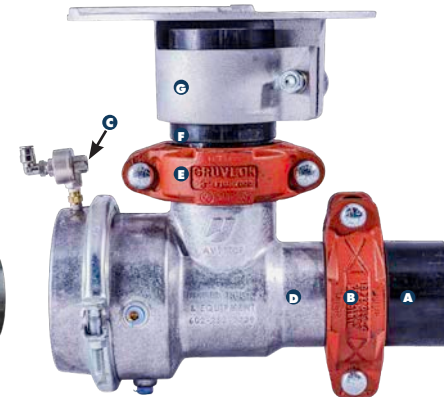
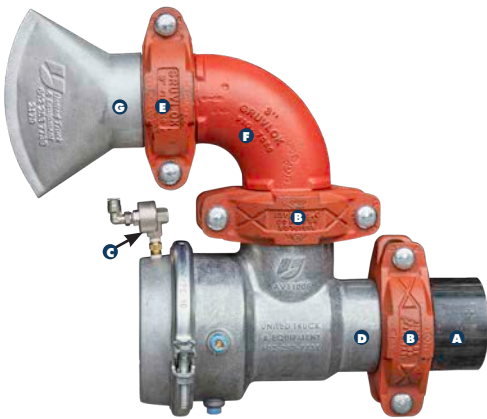
2399 Adjustable Fan Spray Head



2179 Side Spray Nozzle



2178 Flusher Spray Nozzle



AV1100 90° DUCKBILL SPRAY HEAD KIT
UnitedBuilt • Air-to-Close

ID	DESCRIPTION	QTY		PART#
		REQ	EACH	
A	3" Weld x Groove Nipple	1	2	001486
B	3" Groove Coupling Rigidlok	2	4	000697
C	1/8" Quick Exhaust Valve Assembly	1	1	009786
D	AV1100 Air Operated Valve	1	9	008030
E	3" Groove Coupling	1	3	000687
F	3" 90° Groove Elbow	1	4	000677
G	BC2178 Flusher Nozzle	1	2	001043
G	BC2179 Side Nozzle	1	2	001045
G	BC2384 Fan Nozzle	1	2	001048
(A-G)	AV1100 90° BC2178 Flusher Spray Head Kit	29		K004843
(A-G)	AV1100 90° BC2179 Side Spray Head Kit	29		K004718
(A-G)	AV1100 90° BC2384 Fan Spray Head Kit	29		K005059

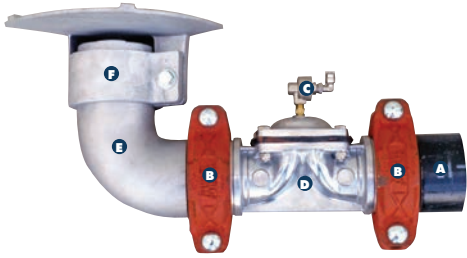
AV1100 SLIP-ON FAN SPRAY HEAD KIT
UnitedBuilt • Air-to-Close

ID	DESCRIPTION	QTY		PART#
		REQ	EACH	
A	3" Weld x Groove Nipple	1	2	001486
B	3" Groove Coupling Rigidlok	1	4	000697
C	1/8" Quick Exhaust Valve Assembly	1	1	009786
D	AV1100 Air Operated Valve	1	9	008030
E	3" Groove Coupling	1	3	000687
F	3" Weld x Groove Nipple 4 1/2" Long	1	3	008442
G	BBD Slip-On Fan Deflector Nozzle	1	2	006117
(A-G)	AV1100 BBD Slip-On Spray Head Kit	19		K005060

BC2410 SPRAY HEAD VALVE KIT
UnitedBuilt • Air-to-Open

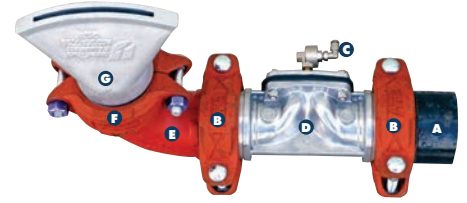
ID	DESCRIPTION	QTY		PART#
		REQ	EACH	
A	3" Weld x Groove Nipple	1	2	001486
B	3" Groove Coupling Rigidlok	2	4	000697
C	3" 90° Groove Elbow	1	4	000677
D	BC2410 Spray Head Valve	1	10	006204
E	1/8" x 1/4" 90° Push-On Air Fitting	1	0.05	005547
(A-E)	BC2410 Spray Head Valve Kit	24		K004636

See pages 38-39 for air switches, control consoles, and airline.



323 INLINE SLIP-ON FAN SPRAY KIT

INDEX	DESCRIPTION	QTY REQ	WT/LB EACH	PART#
A	3" Weld x Groove Nipple	1	2	001486
B	3" Groove Coupling Rigid	2	4	000697
C	1/4" Quick Exhaust Valve w/ Air Fitting	1	1	009786
D	323 In-Line Aluminum Air Valve	1	3	007207
E	Aluminum Elbow for BBD Slip-On Noz	1	3	007270
F	BBD Slip-On Fan Nozzle	1	2	006117
(A-F)	323 In-Line Slip-On Spray Kit	19		K009415



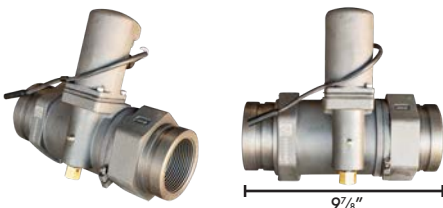
323 INLINE 90° SPRAY KIT

INDEX	DESCRIPTION	QTY REQ	WT/LB EACH	PART#
A	3" Weld x Groove Nipple	1	2	001486
B	3" Groove Coupling Rigid	2	4	000697
C	1/4" Quick Exhaust Valve w/ Air Fitting	1	1	009786
D	323 In-Line Aluminum Air Valve	1	3	007207
E	3" 90° Groove Elbow	1	4	000677
F	3" Groove Coupling	1	3	000687
G	BC2178 Flusher Duckbill Nozzle	1	2	001043
G	BC2179 Side Duckbill Nozzle	1	2	001045
G	BC2384 Fan Duckbill Nozzle	1	2	001048
G	BC2399 Adjustable Fan Nozzle	1	3	003484
(A-G)	323 In-Line BC2178 Flusher Spray Kit	23		K009418
(A-G)	323 In-Line BC2179 Side Spray Kit	23		K009419
(A-G)	323 In-Line BC2384 Fan Spray Kit	23		K009417
(A-G)	323 In-Line BC2399 Adj Spray Kit	24		K009416

2384 Fan Spray Nozzle



Remote articulating side spray setup shown.



ROTATING JOINT 12V

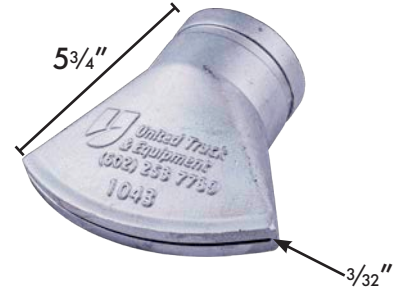
Aluminum • 3" Groove or 2 1/2" FNPT • 12V

DESCRIPTION	WT/LB	PART#
Rotating Joint 12V w/Harness & Module	10.75	009739



BC2399 ADJUSTABLE SPRAY NOZZLE
UnitedBuilt • Aluminum • 3" Groove

DESCRIPTION	WT/LB	PART#
Spray Nozzle with Adjustable Band	3	003484
Adjustable Band w/ Hardware	0.6	003305



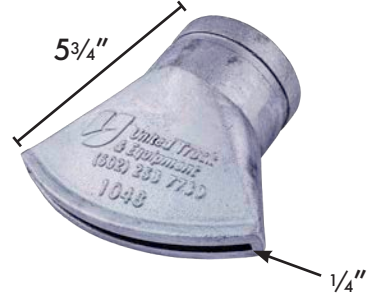
BC2178 FLUSHER SPRAY NOZZLE
UnitedBuilt • Aluminum • 3" Groove • Duckbill

DESCRIPTION	WT/LB	PART#
Flusher Nozzle, 7" Wide x 3/32" Slot	2	001043



BC2179 SIDE SPRAY NOZZLE
UnitedBuilt • Aluminum • 3" Groove • Duckbill

DESCRIPTION	WT/LB	PART#
Side Spray Nozzle, 5" Wide x 1/4" Slot	2	001045



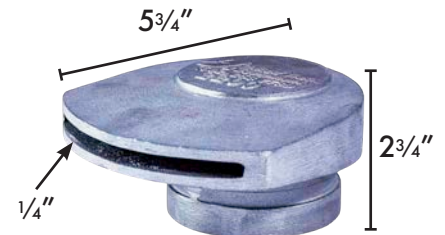
BC2384 FAN SPRAY NOZZLE
UnitedBuilt • Aluminum • 3" Groove • Duckbill

DESCRIPTION	WT/LB	PART#
Fan Nozzle, 7" Wide x 1/4" Slot	2	001048



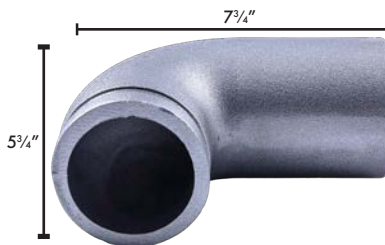
BBS FIN SIDE SPRAY NOZZLE
UnitedBuilt • 3" Groove • 2" Reduced Flow

DESCRIPTION	WT/LB	PART#
Fin Side Nozzle, 5 1/2" Wide x 5/16" Slot	3	007017



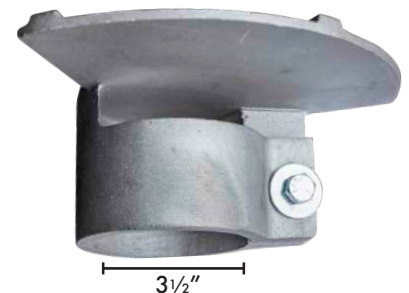
MP2200 SIDE SPRAY NOZZLE
UnitedBuilt • Aluminum • 3" Groove

DESCRIPTION	WT/LB	PART#
Side Spray Nozzle, 4" Wide x 1/4" Slot	2	007790



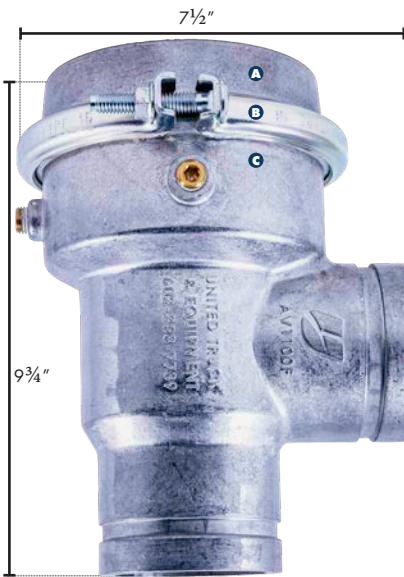
BBE SLIP-ON ELBOW
UnitedBuilt • Aluminum • 3" Groove
Fits BBD Slip-On Fan Nozzle

DESCRIPTION	WT/LB	PART#
Slip-on Elbow for BBD Nozzle	3	007270



BBD SLIP-ON FAN NOZZLE
UnitedBuilt • Aluminum • Slip-On Nozzle
Fits BBE Elbow or 3" Pipe

DESCRIPTION	WT/LB	PART#
Slip-On Nozzle 3 1/2"	3	006117



AV1100 SPRAY VALVE

UnitedBuilt • High Quality Aluminum
Air-to-Close • MFG in USA

DESCRIPTION	WT/LB	PART#
AV1100 Air-to-Close Spray Valve	7.74	008030

The AV1100 air to close spray valve is designed to maximize flow and reduce water hammer. You can use the AV1100 as either a spray valve or a control valve.

- 1/8" FNPT Air Port
- 1/4" FNPT Drain Ports with 1/4" Brass Plugs
- 3" Grooved Ends



AV9030 SPRAY VALVE

UnitedBuilt • Discontinued
Air-to-Close

AV9030 valves are discontinued, but seal kits are available below.

If your AV9030 valve body is damaged, see our latest model, AV1100, to the left. It features an improved seal design for better reliability and easier maintenance.



BC2410 SPRAY HEAD VALVE

UnitedBuilt • High Quality Aluminum
Air-to-Open • Normally Closed • MFG in USA

DESCRIPTION	WT/LB	PART#
BC2410 Air-to-Open Spray Head Valve with Adjustable Band	9.37	006204

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

- 1/8" FNPT Air Port
- 3" Grooved Ends

AV1100 REPAIR PARTS

INDEX	DESCRIPTION	WT/LB	PART#
A	AV1100 Valve Cap	0.95	007132
B	AV1100 Cap Clamp	0.89	001038
C	AV1100 Valve Body	4.85	008145

AV1100 SEAL KIT

INDEX	DESCRIPTION	WT/LB	PART#
A	Spring	0.40	008212
B	Bolt	0.07	006690
C	Stainless Steel Washer 5/8"	0.03	005736
D	Retainer Top	0.10	008140
E	Diaphragm Center Punched Outside Diameter 6 1/4"	0.24	003106
F	Retainer Bottom	0.16	008141
G	Washer Seat	0.08	008143
H	Nut	0.04	008142
(A-H)	Seal Assembly with Spring	1.16	008147
(B-H)	Seal Assembly (No Spring)	0.71	008146

AV9030 REPAIR PARTS

INDEX	DESCRIPTION	WT/LB	PART#
A	AV9030 Valve Cap	0.95	007132
B	AV9030 Cap Clamp	0.89	001038

AV9030 SEAL KIT

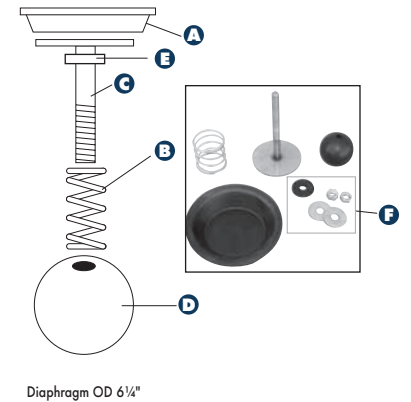
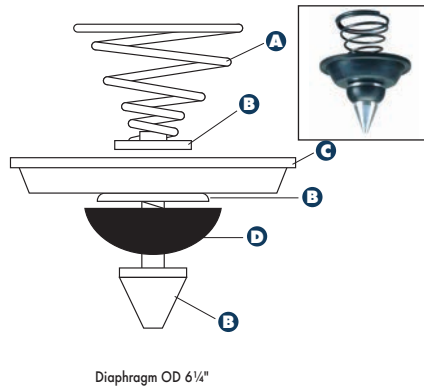
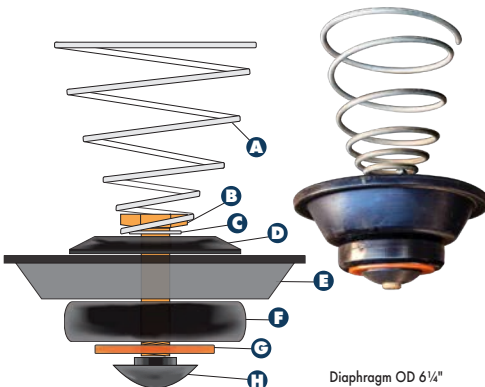
INDEX	DESCRIPTION	WT/LB	PART#
A	Spring	0.34	001056
B	Aluminum Assembly	0.51	006720
C	Diaphragm Center Punched Outside Diameter 6 1/4"	0.24	003106
D	Half Ball Seat	0.21	004116
(A-D)	Seal Assembly with Spring	1.20	004373
(B-D)	Seal Assembly (No Spring)	0.98	007191

BC2410 REPAIR PARTS

INDEX	DESCRIPTION	WT/LB	PART#
A	BC2410 Valve Cap	0.95	007132
B	BC2410 Cap Clamp	0.89	001038
C	BC2410 Adj. Spray Band	0.74	001074
D	BC2410 Valve Body	4.89	007226

BC2410 SEAL KIT

INDEX	DESCRIPTION	WT/LB	PART#
A	Diaphragm Outside Diameter 6 1/4"	0.25	001076
B	Spring	0.20	001079
C	Stainless Steel Stem	1	001394
D	Ball Seat	0.50	001073
E	Rubber Washer	0.02	005008
F	71A Fastener Kit	0.20	003265
(A-F)	BC2410 Seal Kit with Spring Unassembled	1.70	004065





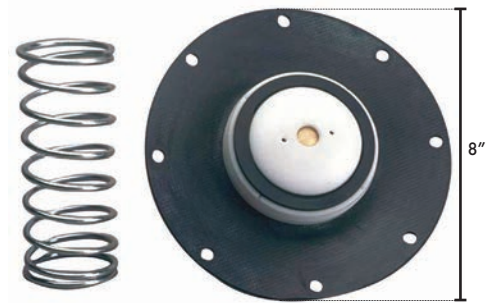
BC2403 SPRAY HEAD VALVE
 UnitedBuilt
 Heavy-duty Aluminum • Air-to-Close
 Interchanges with MEGA 300198

INDEX	DESCRIPTION	WT/LB	PART#
	BC2403 SHV w/ O-Ring	11.29	005826
A	Top Cap	4.08	005928
B	Valve Body	4.09	005929
C	Spray Band	1.22	005930
D	Adjustment Knob	0.16	005948
E	Mounting O-Ring	0.09	004009
F	1/4" Quick Exhaust Valve	0.33	006100
G	1/4" Brass Nipple	0.05	009851
H	Mounting Plate	1.73	005945
[A-H]	BC2403 Spray Head Valve Kit	23.09	006016



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	007690
A	Top Cap	4	Call
B	Valve Body	4.09	005929
C	Spray Band	1.22	005930
D	Adjustment Knob	0.16	005948
E	Mounting O-Ring	0.09	004009
H	Mounting Plate	1.73	005945
I	Hydraulic Cylinder	1.80	007685
	Cylinder Mounting Nut (Not Shown)	0.25	007686



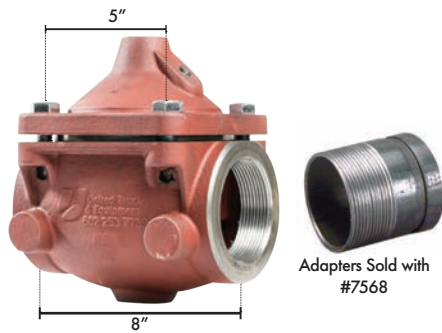
Internal repair kit compatible with both air and hydraulic BC2403

BC2403 & BC2403H SEAL KIT
 Interchanges with MEGA 300409

DESCRIPTION	WT/LB	PART#
Spring	0.44	004008
Diaphragm	0.28	001077
Assembled Seal Kit w/ Spring	1.64	006017

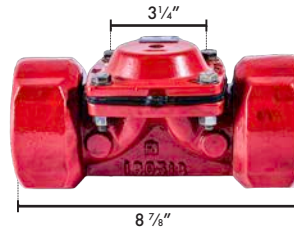
BC2403H HYDRAULIC CYLINDER MOUNTING HARDWARE

DESCRIPTION	WT/LB	PART#
Jam Nut (Not Shown)	0.03	003266
Hex Nut (Not Shown)	0.04	003267



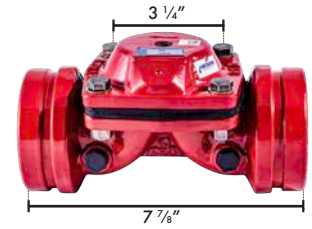
AV5293 INLINE VALVE
 UnitedBuilt
 Heavy-duty Cast Iron • Air-to-Close
 Interchangeable with Cla-Val 3"

CONNECTION DESCRIPTION	WT/LB	PART#
3" FNPT Inline Valve	29	005293
3" Groove Inline Valve w/ (2) 3" MNPTxGRV Adapters	32.68	007568
Valve Cap Cast Iron	7.20	005374



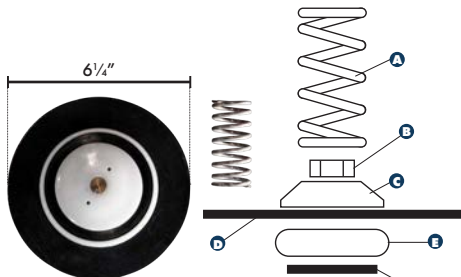
INLINE VALVE NETAFIM
 Cast Iron • Air-to-Close • Female NPT

CONNECTION DESCRIPTION	WT/LB	PART#
3" FNPT Inline Valve 323 3" FNPT	11.43	004525
2" FNPT Inline Valve 2" FNPT	6.68	004725
2" & 323 Valve Cap	1.98	005046



INLINE VALVE NETAFIM
 Cast Iron • Air-to-Close • Grooved

CONNECTION DESCRIPTION	WT/LB	PART#
3" Groove Inline Valve 323 3" Groove	8.89	004767
2" Groove Inline Valve 2" Groove	6.31	004907
2" & 323 Valve Cap	1.98	005046



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

INDEX	DESCRIPTION	WT/LB	PART#
A	Spring	0.12	001570
B	Thread Stem	0.07	006690
C	Top Retainer	0.24	006617
D	Diaphragm	0.19	001578
E	Bottom Retainer	0.20	006615
F	Gasket	0.12	006618
G	Nut	0.10	006616
[A-G]	Seal Kit Assembly with Spring	1.16	002745

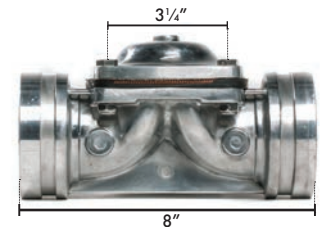


INLINE VALVE CLA-VAL
 Cast Iron • Air-to-Close • Heavy-duty

DESCRIPTION	A INCHES	B INCHES	WT/LB	PART#
Inline Valve 2" FNPT	3 3/8"	6 1/2"	10.09	004602
Inline Valve 2 1/2" FNPT	4 1/2"	7 1/2"	19.02	005665
Inline Valve 3" FNPT	5"	8"	26.46	007927

CLA-VAL SEAL KITS
 2" & 2 1/2" Cla-Val

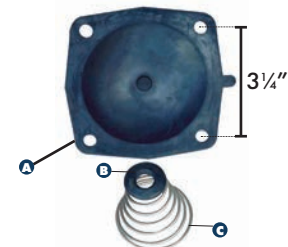
VALVE DESCRIPTION	A INCHES	WT/LB	PART#
2" Spring		0.05	005032
2" Seal Kit (No Spring)	4 1/2"	0.41	004955
2 1/2" Spring		0.12	001570
2 1/2" Seal Kit (No Spring)	5 1/2"	0.74	005591
2 1/2" Seal Kit with Spring	5 1/2"	0.86	006025



INLINE VALVE 323

Aluminum • Air-to-Close • Grooved

CONNECTION DESCRIPTION	WT/LB	PART#
3" Groove Inline Valve 323 Groove	3.15	007207



2" & 323 SEAL KIT

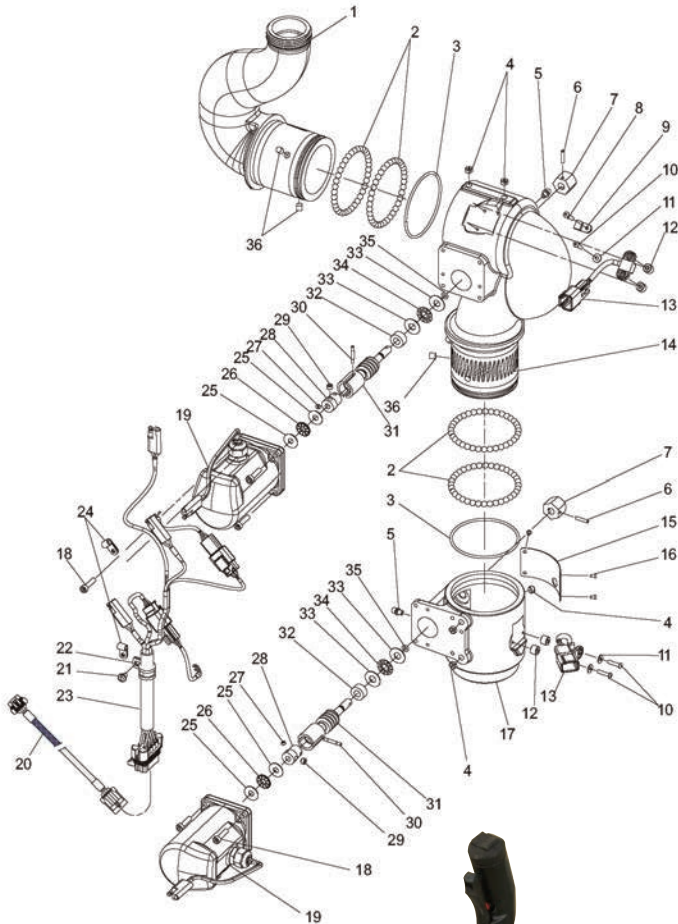
INDEX	DESCRIPTION	WT/LB	PART#
A	Diaphragm	0.22	005590
B	Button Seat	0.01	003883
C	Spring	0.05	001588
[A-C]	Seal Kit with Spring	0.30	006535



**SIDEWINDER 8494 WATER CANNON
REMOTE CONTROL
ELKHART BRASS**

2" Female NPT Inlet
5000-24 Stream to Fog Nozzle 350GPM
Vertical Travel: 135° • Horizontal Travel: 180° or 334°

**SIDEWINDER DISCONTINUED
LIMITED REPAIR PARTS AVAILABLE**



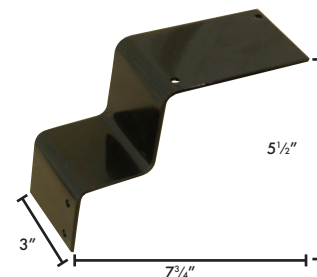
**REPAIR PARTS
INDEX DESCRIPTION**

INDEX	DESCRIPTION	MODEL#	QTY REQUIRED	PART#
1	8494 Outlet Body	17908001	1	006299
2	Ball Stainless Steel 1/4" (36 Per Race)	15027000	144	006464
3	O-Ring	57502000	2	006153
4	Set Screw	63687000	5	007534
6	Roll Pin	51248000	2	006484
7	Over-Ride Nut Brass	47652001	2	006485
8	Screw	65140000	1	007747
10	Screws	65139000	3	007748
11	Washer	71176000	3	007945
13	Position Sensor	65104000	2	007306
14	8494 Inlet Body	18219001	1	007484
16	Drive Screw Stainless Steel	61215100	4	009332
17	8494 Base 2" FNPT	17975001	1	007956
18	Cap Screw Stainless Steel	64072000	8	006630
19	Motor Assy, 12V Slow (Vertical)	81119001	1	005061
19	Motor Assy, 12V Fast (Horizontal)	81147001	1	005030
19	Motor Assy, 24V Slow (Vertical)	81207001	1	006891
19	Motor Assy, 24V Fast (Horizontal)	81240001	1	007501
20	Quick Connect Harness Extension 5'	36791200	1	006945
23	Monitor Control Harness	36833100	1	007149
25	Thrust Washer	71515000	4	007235
26	Thrust Bearing	17701000	2	006492
27	Set Screw Stainless Steel	65201000	2	007234
28	Coupling	20991001	2	006491
29	Set Screw Stainless Steel	65219000	2	007242
30	Solid Pin	51071000	2	007239
31	Worm Shaft Stainless Steel	63935901	2	007264
32	Spacer	63601001	2	007240
33	Thrust Washer	71516000	4	006486
34	Thrust Bearing	17702000	2	006487
35	O-Ring	57380000	2	007241
36	Magnet	46054000	4	007231

(Joystick & Stand sold separately)



(Toggle Box & Bracket sold separately)



JOYSTICK CONTROL

DESCRIPTION	MODEL#	WT/LB	PART#
Sidewinder 8494 Joystick Control	81172001	6	004713
Joystick Stand		4	007295

TOGGLE CONTROL

DESCRIPTION	MODEL#	WT/LB	PART#
Sidewinder 8494 Toggle Control Box	81122001	2	004712
Toggle Box Bracket			006924

8494 NOZZLE ASSEMBLIES

350 GPM

VDC DESCRIPTION	MODEL#	WT/LB	PART#
12V Nozzle Assembly 12V	5000-24	4	004987
24V Nozzle Assembly 24V	5000-24	4	007310

5000-24 NOZZLE ACTUATORS

VDC DESCRIPTION	MODEL#	WT/LB	PART#
12V 5000-24 Actuator 12V	81186001	2	006631
24V 5000-24 Actuator 24V	81227001	2	008217

8494 MOTOR ASSEMBLIES

VDC DESCRIPTION	MODEL#	WT/LB	PART#
12V Slow Vertical 12V	81119001	2	005061
12V Fast Horizontal 12V	81147000	2	005030
24V Slow Vertical 24V	81207000	2	006891
24V Fast Horizontal 24V	81240001	2	007501





187-XD



187-A

HANDLINE NOZZLE

Smooth Bore Single Tip Short Barrel

DESCRIPTION	MODEL#	WT/LB	PART#
A 1 1/2" FNHT Inlet, 15/16" Discharge, Bumper	187-XD	0.56	0011316
B 1 1/2" FNHT Inlet, 15/16" Discharge	187-A	0.56	004488



8494 CONTROL MODULE

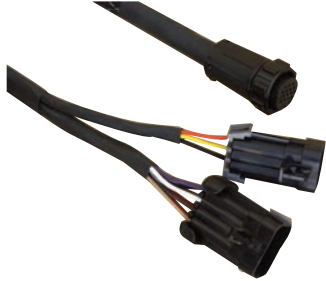
DESCRIPTION	MODEL#	WT/LB	PART#
Control Module	81713000	1.5	005808



8494 EXTENSION HARNESS

Monitor to Control Module

LENGTH	DESCRIPTION	MODEL#	WT/LB	PART#
5'	Harness Extension	36791200	1.25	006945
30'	Harness Extension	36791000	4	005707



8494 CONTROL HARNESS

Control Module to Toggle Box/Joystick

LENGTH	DESCRIPTION	MODEL#	WT/LB	PART#
12'	Control Harness	36787000	2	005332
50'	Control Harness	36795000	8	006135



8494 WATER VALVE

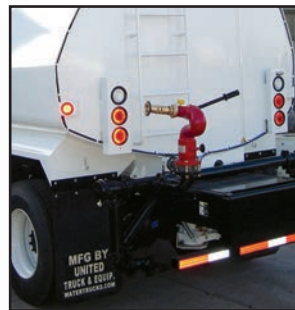
Remote Control

VDC	DESCRIPTION	MODEL#	WT/LB	PART#
12V	Valve Kit 12V	81181001	18	007527

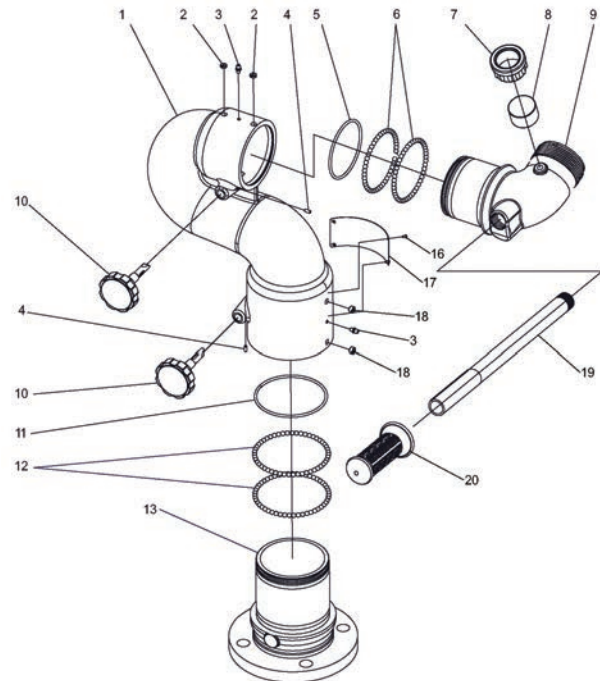


WATER VALVE CONTROL MODULE

VDC	DESCRIPTION	MODEL#	WT/LB	PART#
12V	Control Module 12V	81196000	2	005950



Shown with Brass Fog Nozzle



**VULCAN 8500-02 CANNON KITS
MANUAL OPERATED
ELKHART BRASS**

3" Flange

DESCRIPTION	WT/LB	PART#
Vulcan 8500-02 (no nozzle)	22	005809
Vulcan 8500-02 w/ Brass Cone Nozzle	25	006550
A. 2 1/2" Female NST Brass Cone Nozzle	2.40	001066
B. 2 1/2" Female NST Brass Fog Nozzle	7.40	001069

INDEX DESCRIPTION

INDEX	DESCRIPTION	MODEL#	QTY REQUIRED	PART#
2	Set Screw	63674000	2	006865
5	O-Ring	57312000	1	007777
6	1/4" Ball Bearing Stainless Steel	15027000	2 x 46	006464
7	Cover - Pressure Gauge	23544000	1	007921
8	Pressure Gauge	39130000	1	007095
10	Lock Knob	42034001	2	007717
11	O-Ring	57316000	1	007347
12	1/4" Ball Bearing Stainless Steel	15027000	2 x 51	006464
13	Vulcan Base 3" Flange	15616001	1	006103
16	Drive Screw	61215100	4	009332
18	Set Screw	63688000	2	006866
19	Handle	65456001	1	009432
20	Handle Grip	33645000	1	007716



**NITRO HD WATER CANNON KIT
JOYSTICK CONTROL
ELKHART BRASS**

MODEL: 8100

Sealed Extreme Torque Motors

Sealed Heavy-duty Stream to Fog Nozzle 350GPM or 750GPM

Vertical Travel: 90° or 135°

Horizontal Travel: 180° or 350°

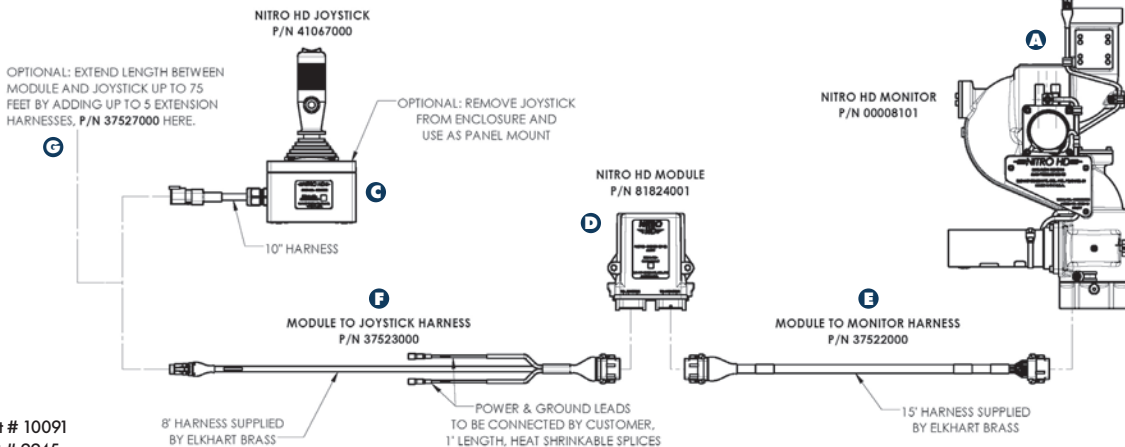
Voltage: 12 or 24 VDC (Auto)



Nitro HD 350GPM Monitor Kit Part # 10091
Nitro HD 750GPM Monitor Kit Part # 9945

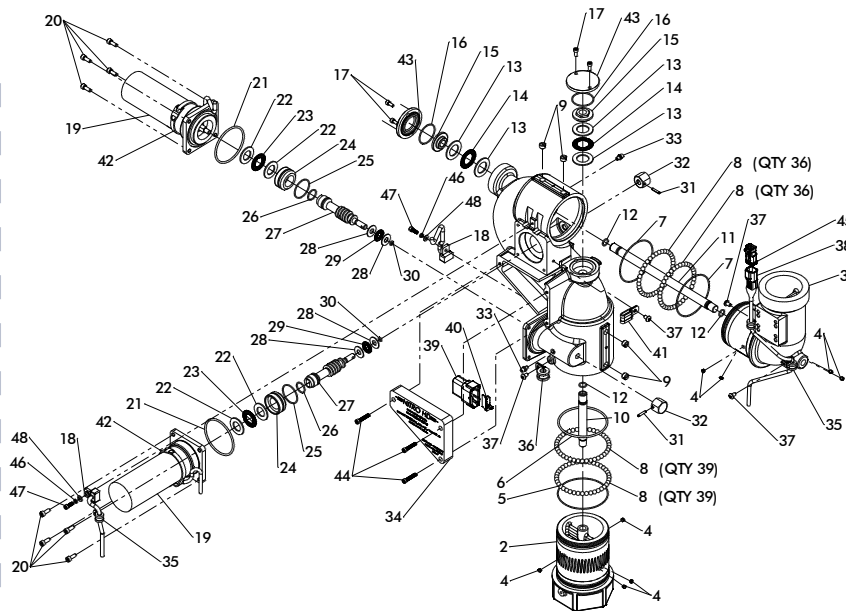
INDEX	DESCRIPTION	WT/LB	PART#
(A-F)	Nitro HD Monitor, 350GPM Nozzle & Joystick Kit	35	010091
(A-F)	Nitro HD Monitor, 750GPM Nozzle & Joystick Kit	35	009945

INDEX	DESCRIPTION	MODEL#	WT/LB	PART#
A	Nitro HD Monitor	00008101	17	Call
B	Nitro HD Nozzle 350GPM 2½" FNHT	07000802	6	009880
B	Nitro HD Nozzle 750GPM 2½" FNHT	07000804	6	010024
C	Nitro HD Joystick Controller	41067000	1.8	009881
D	Nitro HD Module	81824001	0.25	010144
E	Harness Module-to-Monitor 15'	37522000	0.75	010116
F	Harness Module-to-Joystick 8'	37523000	0.5	010130
	Harness Joystick Extension 15'	37527000	0.65	009895



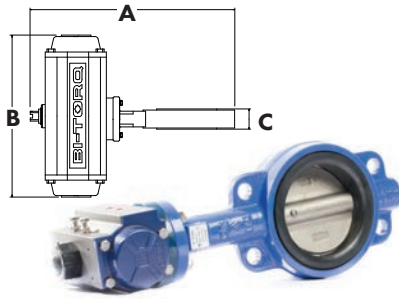
ID DESCRIPTION

ID	DESCRIPTION	MODEL#	QTY REQUIRED	PART#
1	8100 Body - Inlet	16258001	1	Call
2	Base Monitor 2.5 NPT	18037001	1	0010161
3	Discharge-Nitro ASSY	28459001	1	Call
4	Magnet	46057000	8	0010162
5	O-Ring AS-568-041 2.989x.070	57498000	1	0010163
6	O-Ring AS-568-150 2.862x.103	57563000	1	0010164
7	O-Ring AS-568-039 2.739x.070	57547000	2	Call
8	SS Ball 0.25 Dia.	15027000	150	0006464
9	Set Screw .375-24x.25 Nylon (6/6)	63688000	4	0006866
10	Thrust Shaft Short RFA	65879001	1	Call
11	Thrust Shaft Long RFA	65880001	1	Call
12	O-Ring AS-568-012 .364x.070	57298000	3	0010165
13	Washer ¾" Thrust	71518000	4	Call
14	Bearing Thrust ¾"	17705000	2	Call
15	Nut Bearing Adjust (7100) EXM	47637001	2	Call
16	O-Ring AS-568-026 1.239x.070	57397000	2	Call
17	Screw 8-32x0.375 SOC CAP SS	63781000	4	Call
18	Sensor - EOT Nitro HD	67566000	2	0010225
19	Motor - Gear Nitro HD	46114000	2	0010090
20	Screw 10-24x0.500 SOC CAP SS	61037000	8	Call
21	O-Ring AS-568-141 2.300x0.103	57383000	2	0011141
22	Washer Thrust 5/8"	71513000	4	Call
23	Bearing Thrust 5/8"	15699000	2	Call
24	Bearing Bushing	17707001	2	Call
25	O-Ring AS-568-025 1.176x0.070	57337000	2	Call
26	O-Ring AS-568-016 0.614x0.070	57295000	2	Call
27	Shaft-Worm	65658000	2	0011193
28	Washer Thrust 5/16"	71516000	4	0006486
29	Bearing Thrust 5/16"	17702000	2	0006487
30	O-Ring AS-568-008 0.176x0.070	57380000	2	0007241
31	Pin Roll 79-028-125-0.625	51248000	2	0006484
32	Nut Override 3/4" Hex Brass	47652001	2	0006485
33	Grease Fitting 3/16" DR-SS	31011000	2	Call
34	Label - 8100 HD Nameplate	44808001	1	Call
35	Clamp Cushioned Loop Type 1/4"	23735000	3	Call
36	Clamp Cushioned Loop Type 1/2"	23570000	1	Call
37	Screw 10-24x0.312 BUTHD CAP SS	64132000	4	Call



ID DESCRIPTION

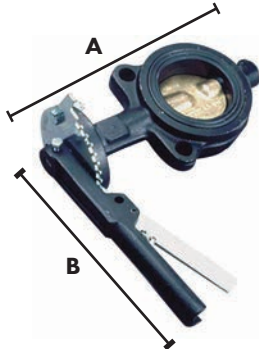
ID	DESCRIPTION	MODEL#	QTY REQUIRED	PART#
38	Harness Straight Nozzle Deutsch	37521000	1	Call
39	Deutsch Receptacle DTM04-12PC	24177300	1	Call
40	Deutsch Wedge Lock WM-12P	24177400	1	Call
41	Clamp Cushioned 4 Tube	24502000	1	Call
42	Cable Tie 16"LGx0.3" Wide	67206000	2	Call
43	Cover Thrust (ALUM)	24671001	2	Call
44	Screw 8-32x0.875 SOC CAP SS	64167000	3	Call
45	Deutsch Plug DT06-2S-CO17	24198000	1	Call
46	Washer - Lock #8 316SS	71705000	2	Call
47	Screw - 8-32x0.4375 LG	64168000	2	Call
48	Washer #8	71609000	2	Call



WAFER BUTTERFLY VALVE

BI-TORQ • Air Operated 2-way
Stainless Steel Stem & Disc

SIZE	A	B	C	WT/LB	PART#
2 1/2"	14.38"	6.38"	1.81"	12	009547
3"	14.83"	6.38"	1.81"	12	009157
4"	16.32"	6.38"	2.05"	16	009158
6"	19.43"	9.35"	2.20"	26	009159



WAFER BUTTERFLY VALVE

MILWAUKEE • CW223E

Stainless Steel Stem with Aluminum Bronze Disc

SIZE	A	B	WT/LB	PART#
2"	8.5"	9.5"	9	001521
2 1/2"	9.25"	9.5"	11	004317
3"	10"	9.5"	11	002657
4"	11.25"	11.5"	14	001525
5"	12.5"	11.5"	18	003495
6"	13.5"	11.5"	21	002686



**WAFER BUTTERFLY VALVE
ELECTRIC OPERATED**

12VDC or 24VDC

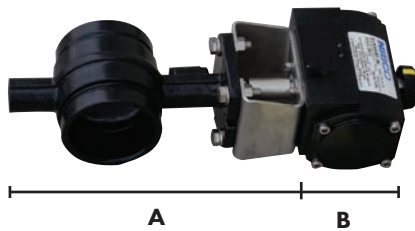
SIZE	DESCRIPTION	VDC	WT/LB	PART#
2 1/2"	Wafer Butterfly Valve	12V/24V	16	0004924
3"	Wafer Butterfly Valve	12V/24V	12	0004555
4"	Wafer Butterfly Valve	12V/24V	24	0006005



ELECTRIC ACTUATOR

KZValve EH22 Series 12V or 24V

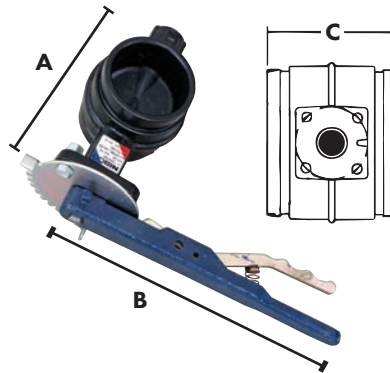
DESCRIPTION	VDC	WT/LB	PART#
Electric Actuator (2" - 6" Valves)	12V/24V	4	0008390
Coupler 2" - 3" Butterfly Valve	208-0016		0007840
Coupler 4" - 6" Butterfly Valve	EHPT1106		0008062
Bracket for Butterfly Valve to EH22 Actuator			0009709



GROOVE BUTTERFLY VALVE

NIBCO • GD-4765-3 • Air Operated 2-way
Stainless Steel Stem with EPDM Coated Disc

SIZE	A	B	C	WT/LB	PART#
2 1/2"	8.66"	3.56"	5.75"	10	004868
3"	9.16"	3.56"	5.75"	12	003379
4"	10.92"	3.56"	5.75"	15	004447



GROOVE BUTTERFLY VALVE

NIBCO • GD-4765-3

Stainless Steel Stem with EPDM Coated Disc

SIZE	A	B	C	WT/LB	PART#
2"	8.45"	9.5"	3.33"	6	005684
2 1/2"	8.66"	9.5"	3.85"	7	004490
3"	9.16"	9.5"	3.85"	9	004691
4"	10.96"	11.5"	4.56"	13	004825
5"	11.91"	11.5"	5.86"	18	002701



**WAFER BUTTERFLY VALVE
ELECTRIC OPERATED**

12VDC or 24VDC

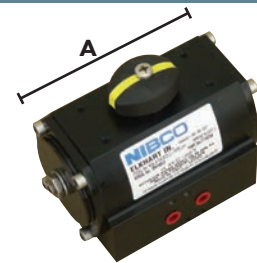
SIZE	DESCRIPTION	VDC	WT/LB	PART#
2 1/2"	Groove Butterfly Valve	12V/24V	13.5	0005562
3"	Groove Butterfly Valve	12V/24V	14	0009797
4"	Groove Butterfly Valve	12V/24V	24	0011221



OUT CAP

Schedule 40 Steel • Groove by FNPT

DESCRIPTION	WT/LB	PART#
3" Groove by 3/4" Female NPT	1.50	006612
3" Groove by 1 1/2" Female NPT	1.50	007337



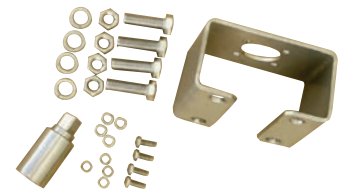
AIR ACTUATOR 2-WAY

NIBCO

For Nibco Grooved Butterfly Valves 2" - 5"

FOR NIBCO BUTTERFLY VALVE SIZE

A	WT/LB	PART#
2" - 5" Groove Butterfly Valve	5.75"	4 006343



BRACKET & COUPLING KIT

For Nibco Grooved Butterfly Valves 2 1/2", 3", 4" & 5"

FOR NIBCO BUTTERFLY VALVE SIZE	WT/LB	PART#
2 1/2" - 3" Nibco Groove Butterfly Valve	1	006343
4" - 5" Nibco Groove Butterfly Valve	1	008177



BALL VALVE

Brass • FNPT

SIZE	WT/LB	PART#
1/4"	0.35	003377
1/2"	0.75	001510
3/4"	0.75	001511
1"	1	001737
1 1/2"	3	001514
2"	4	001516
2 1/2"	5	001518
3"	8	002243
4"	11	003526



GATE VALVE

Brass • FNPT

SIZE	WT/LB	PART#
3/4"	1	006633
1"	1.25	001544
1 1/2"	2	001546
2"	4	001547
2 1/2"	6	002644
3"	9	001549



HOSE BIBB

Brass

SIZE	WT/LB	PART#
3/4" MNPT x 3/4" MGH	0.75	001552



CONTROL CONSOLE UNITEDBUILT

Built with Sealco Lever Control Valves 21600
Includes Standard Switch Plate Labels
Specify Label Configuration When Ordering

DESCRIPTION	HEIGHT	WT/LB	PART#
2 Switch Air Console	14 5/16"	3.5	003944
3 Switch Air Console	14 5/16"	4	002728
4 Switch Air Console	14 5/16"	4.5	002695
5 Switch Air Console	14 5/16"	5	002729
6 Switch Air Console	14 5/16"	5.5	002725
7 Switch Air Console	14 5/16"	6.5	004050
8 Switch Air Console	14 5/16"	7	004051

STICKER LABELS FOR SWITCHES

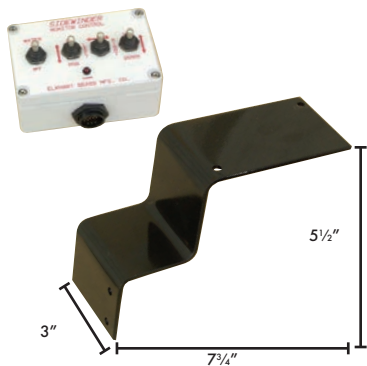
DESCRIPTION	PART#
Labels for Switches, UnitedBuilt	002669

LABELS (OFF/ON) AIR-TO-OPEN VALVES

- Right Front
- Left Front
- Right Side
- Left Side
- Right Rear
- Left Rear
- Monitor
- Front Center
- Rear Center
- Front Bar
- Rear Bar
- Gravity Drop

LABELS (ON/OFF) AIR-TO-CLOSE VALVES

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



(Toggle Box & Bracket sold separately)

TOGGLE BOX BRACKET

DESCRIPTION	WT/LB	PART#
Toggle Box Bracket Elkhart 8494	1.5	006924



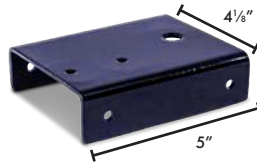
AIR SWITCHES

ID	DESCRIPTION	BRAND	MODEL	WT/LB	PART#
A	Lever Control Valve, 1/8" NPT, with Mounting Screws (Label Sold Separately)	Sealco	21600-2	0.40	0010262
B	3-Way 2-Position Toggle Lever, 1/8" NPTF	Camozzi	338-990TF	0.29	0006032
C	5-Way 2-Position Toggle Lever for Double Acting Valve, 1/8" NPTF	Camozzi	358-990TF	0.29	0006033
D	3-Way 2-Position Toggle Lever, 1/8" NPT	Clippard	MJTV-3	0.30	0006029
E	4-Way 2-Position Toggle Lever for Double Acting Valve, 1/8" NPT	Clippard	MJTV-4	0.40	0006028
F	4-Way 2-Position Detented Toggle Lever for Double Acting Valve, 1/8" NPT	Fabco	18HL-4	0.60	0001494
G	4-Way 2-Position Toggle Push-Pull for Double Acting Valve, 1/8" NPT	Buyers	BAV010	0.50	0003375
H	3-Way 3-Position Momentary, 1/8" NPT	Pneumadyne	C042503	0.30	0001492

OFF/ON SWITCH PLATES LABELS

UnitedBuilt Switch Plates for Sealco Lever Control Switch

DESCRIPTION	For Air Switch	PART#
Left Front Off/On	Sealco 21600	010236
Right Front Off/On	Sealco 21600	010237
Left Side Off/On	Sealco 21600	010234
Right Side Off/On	Sealco 21600	010235
Left Rear Off/On	Sealco 21600	010232
Right Rear Off/On	Sealco 21600	010233
Front Center Off/On	Sealco 21600	010239
Rear Center Off/On	Sealco 21600	010238
Front Bar Off/On	Sealco 21600	010241
Rear Bar Off/On	Sealco 21600	010242
Cannon Off/On	Sealco 21600	010240



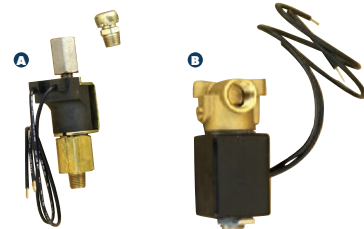
CONSOLE EXTENSION BRACKET

Mounts to UnitedBuilt Control Console

DESCRIPTION	WT/LB	PART#
Mounting plate for (2) Clippard MJTV-4 or BAV010 (Not Shown)	1.09	010219
Mounting plate for (1) Clippard MJTV-4 or BAV010, and (1) 18HL-4 (Shown)	1.09	008270

ELECTRIC OVER AIR SOLENOIDS

ID	DESCRIPTION	WT/LB	PART#
A	Solenoid Valve 12V, 3-Way, UnitedBuilt	0.50	010158
A	Solenoid Valve 24V, 3-Way	0.50	Call
B	Solenoid Valve 12V		Call
B	Solenoid Valve 24V		Call



(Joystick & Stand sold separately)

JOYSTICK STAND

DESCRIPTION	HEIGHT	WT/LB	PART#
Joystick Stand Elkhart 8494	13.5"	3.78	007295
Joystick Stand Elkhart Nitro HD	13.5"	3.78	010058

ELECTRIC SWITCHES

ID	DESCRIPTION	WT/LB	PART#
A	Rocker Switch w/Red LED 12V SPST	0.09	007634
B	Momentary Switch 12V, Littelfuse	0.06	009822
	PTO Switch & Bracket Kit 330045-12X, Chelsea	0.25	010067
	PTO Switch 75-P45-12, Chelsea	0.25	Call
	PTO Switch Bracket 380668X, Chelsea	0.50	Call



AIR CYLINDER

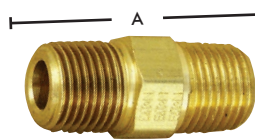
STROKE	THROW	WT/LB	PART#
6"	13 3/8 - 6"	2.53	001500
10"	17 1/8 - 10"	3.24	003904



90° SWIVEL

Airline Push On Fitting

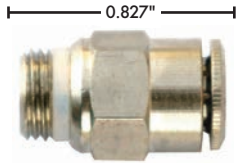
AIR HOSE	MNPT	HEX SIZE	WT/LB	MODEL#	PART#
1/4"	1/8"	12MM	0.04	P6520	005547



HEX NIPPLE

Brass Fitting

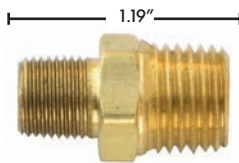
MNPT	HEX SIZE	A	WT/LB	MODEL#	PART#
1/8"	7/16"	0.96"	0.02	3325X2	007643
1/4"	9/16"	1.38"	0.05	3325X4	009851



STRAIGHT

Airline Push On Fitting

AIR HOSE	MNPT	HEX SIZE	WT/LB	MODEL#	PART#
1/4"	1/8"	12MM	0.02	P6510	005546



HEX NIPPLE REDUCER

Brass Fitting

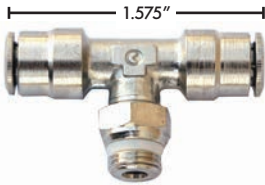
MNPT	HEX SIZE	WT/LB	MODEL#	PART#
1/8" x 1/4"	9/16"	0.05	3325X4X2	007644



AIRLINE HOSE

Airline Synflex Kits

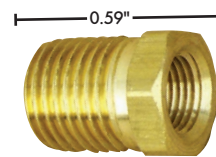
AIRHOSE	LENGTH	WT/LB	PART#
1/4"	25'	0.30	004255
1/4"	100'	1.25	000487



BRANCH TEE

Airline Push On Fitting

AIR HOSE	MNPT	HEX SIZE	WT/LB	MODEL#	PART#
1/4"	1/8"	12MM	0.08	P6430	005548



HEX BUSHING

Brass Fitting

FNPT	MNPT	HEX SIZE	WT/LB	MODEL#	PART#
1/8"	1/4"	5/8"	0.05	3220X4X2	007642

QUICK EXHAUST VALVE

Improves Air Valve Efficiency

FNPT	WT/LB	PART#
1/8"	0.25	004520
1/4"	0.40	006100



RUN TEE

Airline Push On Fitting

AIR HOSE	MNPT	HEX SIZE	WT/LB	MODEL#	PART#
1/4"	1/8"	12MM	0.07	P6440	005545



HEX SOCKET PLUG

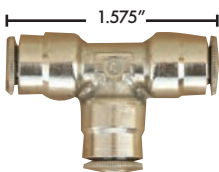
Brass Fitting

MNPT	SOCKET HEX	WT/LB	MODEL#	PART#
1/8"	3/16"	0.01	3153X2	007638
1/4"	1/4"	0.03	3153X4	007639

QUICK EXHAUST ASSEMBLY

Improves Air Valve Efficiency

DESCRIPTION	WT/LB	PART#
1/8" Quick Exhaust Assembly	0.25	009786



UNION TEE

Airline Push On Fitting

AIR HOSE	WT/LB	MODEL#	PART#
1/4"	0.05	6540	007160



DRAIN VALVE

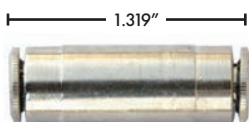
External Seat

MNPT	HEX SIZE	WT/LB	MODEL#	PART#
1/4"	9/16"	0.04	145	007626

PRESSURE PROTECTION VALVE

378414

FNPT	LENGTH	NOMINAL PSI	WT/LB	PART#
1/8" x 1/4"	2 3/8"	70	0.35	006673



UNION

Airline Push On Fitting

AIR HOSE	WT/LB	MODEL#	PART#
1/4"	0.05	6580	005894



THREAD SEALANT COMPOUND

Blue Monster 76003

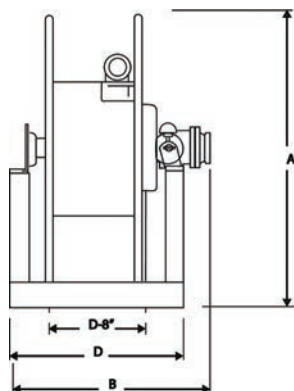
DESCRIPTION	WT/LB	PART#
PTFE Pipe Thread Sealant 8oz	1	009757



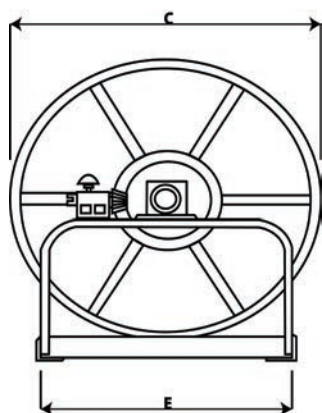
THREAD SEALANT TAPE

Blue Monster 70885

DESCRIPTION	WT/LB	PART#
PTFE Thread Seal Tape 1/2" x 1429"	0.25	009756



Front view of hose reel



Side view of hose reel



PILLOW BLOCK

DESCRIPTION
Pillow Block 3/4"

MODEL#	PART#
50-8A	008424



CRANK HOUSING

DESCRIPTION
Crank Housing Assembly

MODEL#	PART#
40-1AG	008425



BRAKE PARTS

For Crank Housing

INDEX DESCRIPTION

INDEX DESCRIPTION	MODEL#	PART#
A Brake Knob	41-1	008427
B Brake Stud	41-2	008428
C Brake Spring	72-3	008429



Hose sold separately

1" & 1 1/2" MANUAL HOSE REELS

Heavy-duty Hose Reel

HOSE SIZE	HOSE LENGTH	A HEIGHT	B OVERALL WIDTH	C OVERALL DEPTH	D FRAME WIDTH	E FRAME DEPTH	MODEL#	WT/LB	PART#
1"	50'	23 1/2"	15"	22"	13"	20"	C10050-22	115	008300
1 1/2"	50'	23 1/2"	19"	22"	17"	20"	C15050-22	120	008269
1 1/2"	100'	29 1/2"	24"	28"	22"	20"	C15100-28	125	008301



Hose sold separately

1 1/2" ELECTRIC HOSE REELS

Heavy-duty Hose Reel

HOSE SIZE	HOSE LENGTH	A HEIGHT	B OVERALL WIDTH	C OVERALL DEPTH	D FRAME WIDTH	E FRAME DEPTH	MODEL#	WT/LB	PART#
1"	50'	23 1/2"	16"	22"	12"	20"	E10050-22	155	010154
1"	100'	29 1/2"	25"	28"	21"	20"	E10100-28	170	009393
1 1/2"	50'	23 1/2"	21"	22"	16"	20"	E15050-22	155	008302
1 1/2"	100'	29 1/2"	26"	28"	21"	20"	E15100-28	170	008303



SWIVEL JOINT ASSEMBLY

For 1 1/2" Hose Reel

DESCRIPTION	MODEL#	PART#
Swivel Joint Assembly	29-15D	008422



SWIVEL JOINT HOUSING

For 1 1/2" Hose Reel • Seal Kit Sold Separately

DESCRIPTION	MODEL#	PART#
Swivel Joint Housing	29-2	009127



SWIVEL REPAIR KIT

For 1 1/2" Hose Reel

INDEX DESCRIPTION	MODEL#	PART#
Kit: Bearings, O-Rings & Gasket	150-23K	008423
A Gasket Seal Only	150-2	008505



MOTOR 12 VOLT

DESCRIPTION	MODEL#	PART#
1/2 HP Motor 12V Explosion Proof	23-12EP	009317
1/3 HP Motor 12V Non-Exp Proof	23-12S	008421



CRANK HANDLE

DESCRIPTION
Crank Handle 8"

MODEL#	PART#
58-1A	008426



CIRCUIT BREAKER

DESCRIPTION
Cole-Hersee Circuit Breaker

MODEL#	PART#
20878	003880



PUSH BUTTON SWITCH

DESCRIPTION
Cole-Hersee Sealed Push Button

MODEL#	PART#
20876	003882

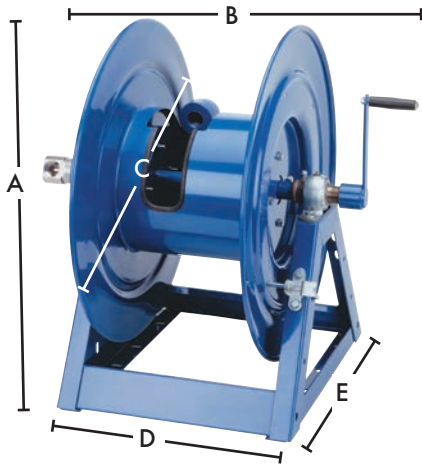


SOLENOID

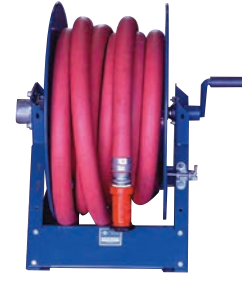
DESCRIPTION
Cole-Hersee Solenoid

MODEL#	PART#
20877	003881

See page 51 for hose reel kits.



Hose sold separately



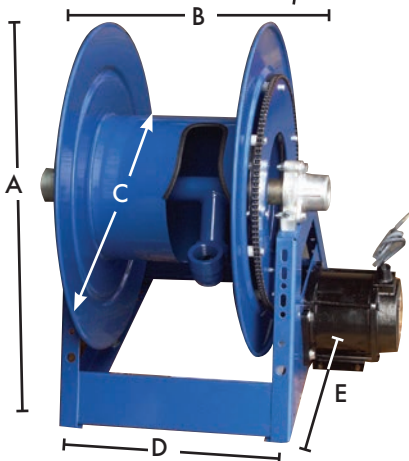
Hose sold separately

1" & 1½" 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'	26¼"	24¾"	24"	12⅞"	20⅞"	67	1175-6-50	003998
1"	100'	26¼"	28¾"	24"	16⅞"	20⅞"	67	1175-6-100	003997
1½"	50'	25"	24⅞"	24"	17⅞"	22⅜"	76	1185-1124	006329
1½"	100'	25"	34⅞"	24"	24⅞"	22⅜"	94	1185-2024	006336

1" & 1½" ELECTRIC 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'	26¼"	20⅜"	24"	12⅞"	20⅞"	80	1175-6-50E	006332
1"	100'	26¼"	24⅜"	24"	16⅞"	20⅞"	83	1175-6-100E	006953
1½"	50'	25"	26⅜"	24"	17⅞"	22⅜"	89	1185-1124E	006471
1½"	100'	25"	34⅞"	24"	24⅞"	22⅜"	112	1185-2024E	006735



SWIVEL INLINE

For 1½" 1185 Hose Reel

INDEX DESCRIPTION	MODEL#	PART#
A Inline Swivel 1185 Reel	20288-2	009499
B Inline Swivel (2014 Rev. D) 1185	8970-2	009516
C Retaining Plate for 8970-2	8956	Call

SWIVEL O-RING KIT

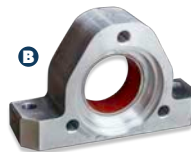
For 1½" 1185 Hose Reel

DESCRIPTION	MODEL#	PART#
Swivel O-Ring Kit (EPDM)	8970-2	009475



SWIVEL 90°
For 1" 1175-6 Hose Reel

DESCRIPTION	MODEL#	PART#
90 Swivel 1" 1175-6 Reel	15257-1	005104



BEARING ASSEMBLY

For 1½" 1185 Hose Reel

INDEX DESCRIPTION	MODEL#	PART#
A Bearing Assembly	8166	006818
B Bearing Asy for 8970 (2014 Rev D)	8954	009749

RETAINING RING

External Snap Ring

DESCRIPTION	MODEL#	PART#
Retaining Ring	20266	004039
Retaining Ring (2014 Rev D)	20252	005025



COX REELS MOTOR 12 VOLT

DESCRIPTION	MODEL#	PART#
½ HP Motor 12V	15223-1	005213



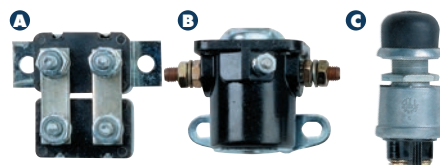
BEARING WASHER

INDEX DESCRIPTION	MODEL#	PART#
A Bearing Washer	20264	004040
B Thrust Washer (2014 Rev D)	8960-1	009748
A Bearing Washer (2014 Rev D)	8960	009750



LOCK PIN

DESCRIPTION	MODEL#	PART#
Spring-loaded Locking Pin	20843	003542



ELECTRIC REEL PARTS

INDEX DESCRIPTION	MODEL#	PART#
A Cole-Hersee Circuit Breaker	20878	003880
B Cole-Hersee Solenoid	20877	003881
C Cole-Hersee Sealed Button	20876	003882



CRANK HANDLE

DESCRIPTION	MODEL#	PART#
Crank Handle	8191	007301



AXLE ASSEMBLY

DESCRIPTION	MODEL#	PART#
Axle 1½"x50' Reel	8169-11.5	007377
Axle 1½"x50' Reel (2014 Rev. D)	8962-11.5	009905
Axle 1½"x100' Reel (2014 Rev. D)	8962-20	009784

See page 51 for hose reel kits. Call for parts breakdown.



Shown: 3" MNPT x Female Cam & Groove
Ships oversize Parcel - LTL Recommended

SUCTION FILL HOSE

SIZE	CONNECTIONS	LENGTH	WT/LB	PART#
3"	NPT x Female Cam & Groove	10'	16	009474
3"	NPT x Male Cam & Groove	10'	16	009444
3"	NPT x Male Cam & Groove	14'	21	008407
3"	NPT x Female Cam & Groove	15'	22	004058
3"	NPT x Female Cam & Groove	20'	27	002032
3"	NPT x Female Cam & Groove	25'	31	004769
3"	NPT x Female Cam & Groove	30'	36	005784



STRAIGHT STREAM NOZZLE

Brass

SIZE	THREAD TYPE	WT/LB	PART#
1 1/2"	NPSH	1	002852
1 1/2"	NST	1	005330
2"	NPSH	2	004486
2 1/2"	NST	3	001066



T-BOLT CLAMP

SIZE	WT/LB	PART#
2 1/4"	0.15	004247
2 1/2"	0.15	005370
2 3/4"	0.15	005371
3"	0.15	004608
3 1/2"	0.15	004620
4 1/2"	0.18	005506



HOSE REEL HOSE

SIZE	THREAD TYPE	LENGTH	WT/LB	PART#
1"	MNPT x MNPT	50'	29	003800
1"	MNPT x MNPT	100'	54	003257
1 1/2"	MNPT x MNPT	50'	42	000744
1 1/2"	MNPT x MNPT	100'	91	000743



(from stream to 120°)

ADJUSTABLE FOG NOZZLE

Brass
From Stream to 120°

SIZE	THREAD TYPE	WT/LB	PART#
1 1/2"	NPSH	1.55	001071
1 1/2"	NST	1.15	004800
2"	NPSH	2.90	003852
2 1/2" Elkhart	NST	7.50	001069



DOUBLE BOLT CLAMP

SIZE	WT/LB	PART#
3"	1.95	04334
3 1/2"	2.20	04335
4 1/2"	2.20	05123



2 1/2" Female NST Swivel x Female Cam & Groove

HYDRANT FILL HOSE

SIZE	CONNECTIONS	LENGTH	WT/LB	PART#
2 1/2"	FNST Swivel x FCAM	15'	8	005199
2 1/2"	FNST Swivel x FCAM	25'	12.90	003932
2 1/2"	FNST Swivel x FCAM	50'	22.60	005864



ADJUSTABLE FOG NOZZLE

Dixon · Plastic

SIZE	THREAD TYPE	WT/LB	PART#
1"	NPSH	0.55	003130
1"	NST	0.55	005626
1 1/2"	NPSH	0.55	001068
1 1/2"	NST	0.55	003370
2"	NPSH	1.25	005121
Bracket for 1" Plastic Nozzle		0.80	007098
Bracket for 1 1/2" Plastic Nozzle		0.80	007097



PUNCH CLAMP

Requires Punch Clamp Tool

SIZE	WT/LB	PART#
1/2"	0.05	006858
1 1/2"	0.10	003127
2"	0.12	000610
3"	0.15	000611
3 1/2"	0.17	000612



1 1/2" MNPT x 1 1/2" MNPT

JET FEED HOSE

SIZE	THREAD TYPE	LENGTH	WT/LB	PART#
1 1/2"	MNPT x MNPT	25'	5.80	002981
1 1/2"	MNPT x MNPT	50'	10	002800
1 1/2"	MNPT x MNPT	100'	19.35	005342
2"	MNPT x MNPT	25'	8	008022
2"	MNPT x MNPT	50'	15	005741



SUCTION HOSE STRAINER

SIZE	LENGTH	WIDTH	WT/LB	PART#
3" FNPT	5"	3 7/8"	3	001084
3" FNPT	9 5/8"	4"	2	001085
4" FNPT	5 7/16"	6 7/8"	3	001086



PUNCH CLAMP BINDER

DESCRIPTION	WT/LB	PART#
Punch Clamp Binding Tool	3	005503



SUCTION HOSE FOOT VALVE

Dixon

SIZE	THREAD TYPE	WT/LB	PART#
2 1/2"	FNPT	7	008288
3"	FNPT	8	001535
4"	FNPT	18	001536



GROOVE COUPLING GASKET

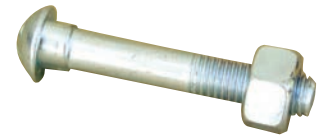
Gruvlok

SIZE	WT/LB	PART#
1"	0.05	004521
1½"	0.06	003600
2"	0.08	001729
2½"	0.09	000700
3"	0.10	000701
4"	0.21	000702
5"	0.26	005056
6"	0.30	001959



NST SWIVEL GASKET

SIZE	WT/LB	PART#
2½"	0.02	004965



GROOVE COUPLING BOLT & NUT

Gruvlok

SIZE	WT/LB	PART#
2½"	0.11	003238
3"	0.25	003395
4"	0.25	006808



GROOVE COUPLING REDUCER GASKET

Gruvlok

SIZE	WT/LB	PART#
3" x 2"	0.20	005013
3" x 2½"	0.20	005039
4" x 3"	0.30	003859



CAM & GROOVE GASKET

SIZE	WT/LB	PART#
1½"	0.03	003020
2"	0.04	000560
2½"	0.04	000561
3"	0.05	000562
4"	0.07	002971



SWIVEL REPAIR KIT

Dixon · Style 20, 30 & 40

SIZE	WT/LB	PART#
3"	0.14	004078
4"	0.17	004079



FLANGE GASKET

SIZE	WT/LB	PART#
2½"	0.12	004091
3"	0.13	002365
4"	0.18	001649
5"	0.19	001647
6"	0.23	001648



SPRAY NOZZLE GASKET

SIZE	DESCRIPTION	WT/LB	PART#
1½"	For 1½" Plastic Nozzle NST/NPT	0.01	003667
2½"	For 2½" Brass Nozzle NST/NPT	0.03	005980



FOOT VALVE REPAIR KIT

Dixon

SIZE	DESCRIPTION	WT/LB	PART#
2½"	Foot Valve Flapper Assembly	0.95	008514
3"	Foot Valve Flapper Assembly	1	004896
3"	Flapper Diaphragm Insert Only	0.09	007608



THREAD SEALANT COMPOUND

Blue Monster 76003

DESCRIPTION	WT/LB	PART#
PTFE Pipe Thread Sealant 8oz	1	009757



THREAD SEALANT TAPE

Blue Monster 70885

DESCRIPTION	WT/LB	PART#
PTFE Thread Seal Tape ½" x 1429"	0.25	009756





CAM & GROOVE SPECS

THREAD SIZE	THREAD O.D.	CAM
1½"	1¾"	2"
2"	2½"	2¾"
2½"	3"	3¾"
3"	3¾"	3½"
4"	4¾"	4½"



TYPE A

Male Cam & Groove x FNPT • Aluminum

SIZE	LENGTH	WT/LB	PART#
1½"	2¼"	0.30	000567
2"	2½"	0.40	000573
2½"	2¾"	0.55	000578
3"	2⅞"	0.85	000585
4"	3¼"	1.50	003205



TYPE B

Female Cam & Groove x MNPT • Aluminum

SIZE	LENGTH	WT/LB	PART#
1½"	3"	0.75	000568
2"	3"	0.85	000574
2½"	3½"	1.20	000579
3"	3½"	1.70	000586
4"	4⅞"	2.20	003327



TYPE C

Female Cam & Groove x Hose Barb Aluminum

SIZE	LENGTH	WT/LB	PART#
1½"	4⅞"	0.90	002980
2"	5½"	1.15	002645
2½"	6"	1.30	000580
3"	6⅞"	2	000587
4"	7¼"	3.20	003091



TYPE D

Female Cam & Groove x FNPT • Aluminum

SIZE	LENGTH	WT/LB	PART#
1½"	2½"	0.75	002406
2"	2⅞"	0.90	000575
2½"	3"	1.50	000581
3"	3¼"	1.75	000588
4"	3⅝"	2.60	002834



TYPE E

Male Cam & Groove x Hose Barb • Aluminum

SIZE	LENGTH	WT/LB	PART#
1½"	5⅞"	0.60	003390
2"	5¾"	0.72	005630
2½"	6½"	1.20	000582
3"	6⅞"	1.40	000589
4"	8⅞"	2.45	004625



TYPE F

Male Cam & Groove x MNPT • Aluminum

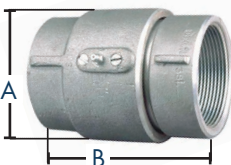
SIZE	LENGTH	WT/LB	PART#
1½"	3⅞"	0.50	000571
2"	3⅞"	0.70	000576
2½"	4⅞"	1	000583
3"	4⅞"	1.10	000590
4"	4⅞"	2.15	000597



TYPE V

Female Cam & Groove Dust Cap • Aluminum

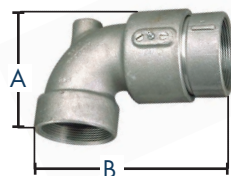
SIZE	LENGTH	WT/LB	PART#
1½"	1⅜"	0.75	000572
2"	2⅞"	0.90	003015
2½"	2⅜"	1.30	002835
3"	2⅜"	1.15	002722
4"	2⅞"	1.75	000598



SWIVEL STYLE 20

Dixon • Aluminum

SIZE	A	B	WT/LB	PART#
1½"	3½"	4"	1.40	005224
3"	5¾"	5¾"	3.55	001030



SWIVEL STYLE 30

Dixon • Aluminum

SIZE	A	B	WT/LB	PART#
1½"	4⅞"	5⅞"	1.75	005625
2"	4¼"	7⅞"	3	003705
3"	6"	9½"	4.70	003981



HOSE BARB GROOVE NIPPLE

Malleable Steel

SIZE	LENGTH	WT/LB	PART#
1½"	4⅞"	0.70	002612
2"	4⅞"	1.15	005629
2½"	5⅞"	2	000705
3"	5⅞"	3	000706
4"	7⅞"	4.50	003259



HOSE BARB THREAD NIPPLE

Malleable Steel

SIZE	LENGTH	WT/LB	PART#
1½"	4¼"	0.60	001302
2"	4⅞"	1	001303
2½"	5⅞"	2	001306
3"	6"	2.55	001307
4"	7⅞"	4.40	003066



HOSE BARB WELD NIPPLE

Malleable Steel

SIZE	LENGTH	WT/LB	PART#
2½"	5⅞"	2.25	001652
3"	5⅞"	3	001653
4"	7¼"	5	004158



HOSE BARB SWIVEL

NPSM, NST & JIC Connections

SIZE	MODEL #	THREAD TYPE	WT/LB	PART#
1½"	S22	NPSM	0.56	004330
1½"	S22N	NST	0.69	004261
1½"	4445-24-24	JIC	1.20	005198
2"	S27	NPSM	1.10	004291
2½"	S32	NPSM	1.59	003314
2½"	S32N	NST	1.75	003315





GROOVE COUPLING FLEXIBLE

Gruvlok 7000 • Ductile Iron

SIZE	WT/LB	PART#
1 1/2"	1.45	000684
2"	1.94	000685
2 1/2"	2.20	000686
3"	3.09	000687
4"	4.54	000689
5"	6.01	000691
6"	8.24	000692



GROOVE COUPLING RIGIDLOK

Gruvlok 7401 • Ductile Iron

Used to connect unsupported valves, pipe & elbows

SIZE	WT/LB	PART#
2"	2.31	001941
2 1/2"	2.81	000696
3"	3.57	000697
4"	5.40	000698
5"	6.80	009497
6"	8.23	004248



GROOVE COUPLING REDUCER

Gruvlok 7010 • Ductile Iron

SIZE	WT/LB	PART#
2 1/2" x 2"	2.81	002750
3" x 2"	4.50	002764
3" x 2 1/2"	4.13	000694
4" x 3"	6.46	000695



GROOVE COUPLING HINGELOK

Gruvlok 7003 • Ductile Iron • Quick Disconnect

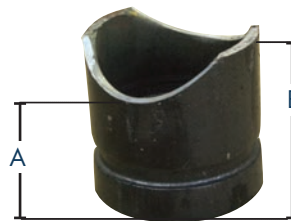
SIZE	WT/LB	PART#
1 1/2"	1.70	009612
2"	2.20	002674
2 1/2"	3.20	002209
3"	3.60	000693
4"	5.10	005987



GROOVE BY WELD NIPPLE

SCH 40 Black Steel • Groove x Weld

SIZE	LENGTH	O.D.	WT/LB	PART#
1 1/2"	3"	1 7/8"	0.90	002223
2"	3"	2 1/4"	0.95	004686
2 1/2"	1 1/2"	2 3/4"	0.75	002897
2 1/2"	3"	2 3/4"	1.40	001485
2 1/2"	12"	2 3/4"	5	007002
3"	3"	3 1/2"	1.85	001486
3"	4 1/2"	3 1/2"	2.66	008442
3"	8"	3 1/2"	5.03	003095
3"	12"	3 1/2"	6.87	009783
4"	4"	4 1/2"	3.60	002747
4"	7"	4 1/2"	6.06	001958
5"	5"	5 3/4"	6	005295
6"	6"	6 3/4"	8.50	004495



GROOVE BY NOTCH NIPPLE

SCH 40 Black Steel • Groove x Weld Notch

SIZE	A	B	WT/LB	PART#
2 1/2"	2 1/8"	2 3/4"	1.20	003996
3"	2"	2 3/4"	1.50	003938
3"	3"	4 1/8"	1.88	006020
3"	3 3/4"	4 3/8"	2	004904



THREAD BY GROOVE NIPPLE

SCH 40 Black Steel • MNPT x Groove

SIZE	LENGTH	O.D.	WT/LB	PART#
1 1/2"	3"	1 7/8"	0.75	002128
2"	3"	2 1/4"	1	002751
2 1/2"	3"	2 3/4"	1.75	001298
3"	3 1/2"	3 1/2"	2	001299
4"	3 1/2"	4 1/2"	2.50	004000



THREAD BY WELD NIPPLE

SCH 40 Black Steel • MNPT x Weld

SIZE	LENGTH	O.D.	WT/LB	PART#
1 1/2"	3"	1 7/8"	0.50	003319
2"	3"	2 1/4"	0.55	003320
2 1/2"	3"	2 3/4"	0.75	001488
3"	3"	3 1/2"	1.50	001489
4"	3"	4 1/2"	2.73	004134



THREAD NIPPLE

SCH 40 Black Steel • MNPT

SIZE	LENGTH	O.D.	WT/LB	PART#
1"	6"	1 1/8"	0.72	005667
1 1/2"	4"	1 7/8"	0.75	004557
1 1/2"	6"	1 7/8"	1.19	001276
1 1/2"	12"	1 7/8"	2.60	006553
2"	4"	2 1/4"	0.94	001277
2"	6"	2 1/4"	1.55	001278
2"	12"	2 1/4"	3.50	005098
2 1/2"	6"	2 3/4"	2.30	001281
2 1/2"	8"	2 3/4"	3.10	004450
2 1/2"	12"	2 3/4"	5.39	001279
3"	4"	3 1/2"	1.80	002505
3"	6"	3 1/2"	3.24	001284
3"	8"	3 1/2"	4.10	003670
4"	12"	3 1/2"	6.50	001283
4"	6"	4 1/2"	4.50	001287
4"	8"	4 1/2"	5.75	003999
4"	12"	4 1/2"	6.75	005047



THREAD COUPLER

Merchant Steel • FNPT

SIZE	LENGTH	WT/LB	PART#
* 1/4"	5/8"	0.03	009852
* 1/2"	3/4"	0.10	006916
* 3/4"	1 1/8"	0.22	004193
1 1/2"	2"	0.70	001228
2"	2 1/4"	1.02	001229
2 1/2"	3 1/8"	1.25	001230
3"	3 1/4"	2.94	001231
* 3"	1 3/4"	1.25	006705
4"	3 1/8"	4.50	001233

* Half Coupler



THREAD CLOSE NIPPLE

SCH 40 Black Steel • MNPT

SIZE	LENGTH	O.D.	WT/LB	PART#
1/2"	1 1/4"	3/4"	0.04	006861
1"	1 1/2"	1 1/8"	0.14	001763
1 1/2"	1 3/4"	1 7/8"	0.29	001292
2"	2"	2 1/4"	0.44	001293
2 1/2"	2 1/4"	2 3/4"	0.84	001294
3"	3 1/2"	3 1/2"	0.94	001295
4"	4"	4 1/2"	1.74	001296

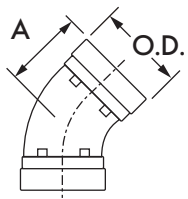
PRECUT PIPE

SCH 40 Black Steel • 18" to 84"

SIZE	LENGTH	O.D.	CONNECTION	WT/LB	PART#
2 1/2"	24"	2 3/4"	Groove by Groove	11.58	008322
2 1/2"	84"	2 3/4"	Groove by Weld	39	007004
2 1/2"	84"	2 3/4"	Groove by Weld	39	007003
3"	15"	3 1/2"	Groove by Groove	8.25	008315
3"	18"	3 1/2"	Groove by Groove	11	007319
3"	20"	3 1/2"	Groove by Groove	12.63	009293
3"	52"	3 1/2"	Groove by Groove	32	003634
3"	66"	3 1/2"	Groove by Groove	41	000864
3"	72"	3 1/2"	Groove by Weld	45.48	008313
3"	72"	3 1/2"	Weld by Weld	45.48	007005
3"	84"	3 1/2"	Groove by Weld	53.06	007006
3"	84"	3 1/2"	Weld by Weld	53.06	009782
4"	4 1/2"	4 1/2"	Groove by Groove	3.99	002008
4"	8"	4 1/2"	Weld by Weld	5.59	003094
4"	18"	4 1/2"	Groove by Groove	15.43	007007
4"	20"	4 1/2"	Groove by Groove	17	007008



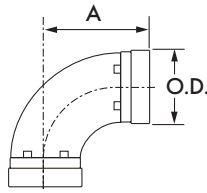
See page 43 for PTFE thread sealants.



GROOVE ELBOW 45°

Gruvlok 7051 • Ductile Iron

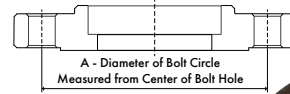
SIZE	O.D.	A	WT/LB	PART#
2"	2.375"	2"	1.5	006810
2½"	2.875"	2¼"	1.86	004832
3"	3.50"	2½"	2.72	000673
4"	4.50"	3"	5.46	002458



GROOVE ELBOW 90°

Gruvlok 7050 • Ductile Iron

SIZE	O.D.	A	WT/LB	PART#
2"	2.375"	3¼"	1.90	000675
2½"	2.875"	3¾"	2.77	000676
3"	3.50"	4¼"	3.75	000677
4"	4.50"	5"	7.39	000678
5"	5.563"	5½"	11.28	002988

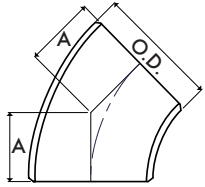


COMPANION FLANGE FEMALE NPT

Malleable Iron

SIZE	BOLT HOLES	A	WT/LB	PART#
2"	4	4¾"	4.24	001258
2½"	4	5½"	5.85	001259
3"	4	6"	7.35	001260
4"	8	7½"	12.03	001261
5"	8	8½"	15.15	004664
6"*	8	9½"	16.39	003549
8"*	8	11¾"	26.10	009426

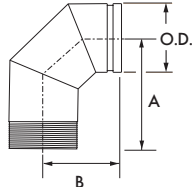
*Black Steel



WELD ELBOW 45°

SCH 40 Black Steel

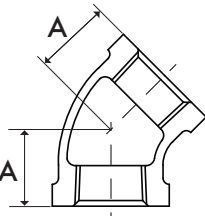
SIZE	O.D.	A	WT/LB	PART#
1½"	1.90"	1.12"	0.80	006777
2"	2.375"	1.38"	1.12	001615
2½"	2.875"	1.75"	1.58	001616
3"	3.50"	2"	2.52	001618
4"	4.50"	2.5"	4.62	001620
5"	5.563"	3.12"	7.54	001621
6"	6.625"	3.75"	11.01	003986



GROOVE BY MALE NPT 90°

Gruvlok 7055

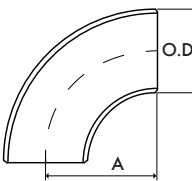
SIZE	A	B	WT/LB	PART#
2½"	3¾"	3¾"	2.85	000710
3"	4¼"	6"	5.59	000711



FEMALE NPT ELBOW 45°

Malleable Iron 150#

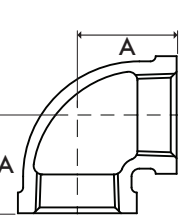
SIZE	A	WT/LB	PART#
¾"	0.98"	0.30	007470
1½"	1.43"	1.07	003384
2"	1.68"	1.84	001247
2½"	1.95"	2.80	001248
3"	2.17"	3.29	001249
4"	2.61"	7.30	003278



WELD ELBOW 90°

SCH 40 Black Steel

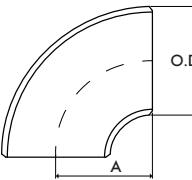
SIZE	O.D.	A	WT/LB	PART#
1½"	1.90"	2.25"	0.79	001624
2"	2.375"	3"	1.50	001625
2½"	2.875"	3.75"	2.71	001626
3"	3.50"	4.25"	4.57	001628
4"	4.50"	6"	8.13	001631
5"	5.563"	7.5"	15.73	001633
6"	6.625"	9"	22.88	004679



FEMALE NPT ELBOW 90°

Malleable Iron 150#

SIZE	A	WT/LB	PART#
1½"	1.94"	1.31	003939
2"	2.25"	1.75	001251
2½"	2.70"	3.30	001252
3"	3.08"	4.93	001253
4"	3.79"	8.97	001254



WELD ELBOW SHORT RADIUS 90°

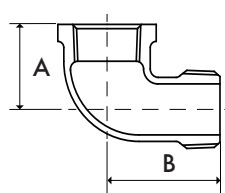
SCH 40 Black Steel

SIZE	O.D.	A	WT/LB	PART#
2	2.375"	2"	1.00	007754
2½"	2.875"	2.5"	1.87	001627
3"	3.50"	3"	3.25	001629
4"	4.50"	4"	5.95	001632
5"	5.563"	5"	10.54	004699
6"	6.625"	6"	17.78	004951



PHOENIX FLANGE

SIZE	WT/LB	PART#
½"	0.14	001266
¾"	0.20	001267
1"	0.20	001268
1½"	0.45	001270
2"	0.47	001271
2½"	1.13	001272
3"	1.15	001273
4"	2	001274

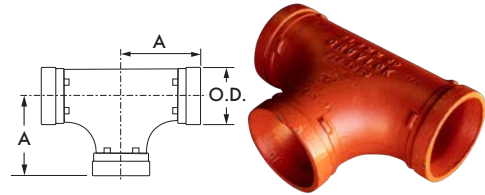


STREET 90° MALE NPT BY FEMALE NPT

Malleable Iron 150#

SIZE	A	B	WT/LB	PART#
½"	1.12"	1.61"	0.20	006863
¾"	1.30"	1.89"	0.43	002111
1"	1.50"	2.13"	0.65	002291
1½"	1.94"	2.67"	1.33	001314
2"	2.25"	3.27"	2.67	001315
2½"	2.70"	3.86"	3.85	001316
3"	3.08"	4.51"	5.47	001317
4"	3.79"	5.69"	9.18	005017

See page 43 for PTFE thread sealants.



GROOVE TEE

Gruvlok 7060 • Ductile Iron

SIZE	O.D.	A	WT/LB	PART#
2½"	2.875"	3¾"	3.89	000715
3"	3.50"	4¼"	5.94	000716
4"	4.50"	5"	10.50	000717



BUSHING FEMALE BY MALE NPT

Malleable Iron

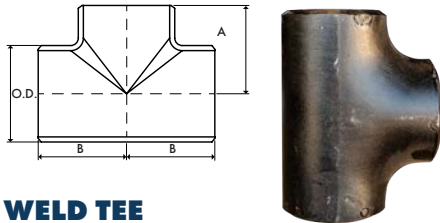
SIZE	WT/LB	PART#
1½" x ¾"	0.61	005019
1½" x 1"	0.49	002766
2" x 1½"	0.70	001733
2½" x 1½"	1.36	002965
2½" x 2"	0.84	001208
3" x 2"	1.77	001210
3" x 2½"	1.52	001211
4" x 3"	3.19	003329



GROOVE CAP

Gruvlok 7074 • Ductile Iron

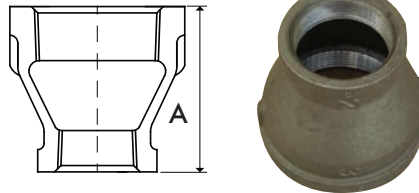
SIZE	WT/LB	PART#
2"	0.50	004804
2½"	1.00	000682
3"	1.14	000683
4"	2.54	004783



WELD TEE

SCH 40 Black Steel

SIZE	O.D.	A	B	WT/LB	PART#
2"	2.375"	2.5"	2.5"	2.38	001665
2½"	2.875"	3"	3"	4.19	001666
3"	3.50"	3.38"	3.38"	6.08	001667
4"	4.50"	4.12"	4.12"	10.13	001668



BELL REDUCER FEMALE NPT

Malleable Iron 150#

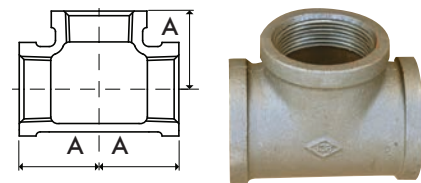
SIZE	A	WT/LB	PART#
1½" x 1"	2.31"	0.80	004850
2½" x 1½"	3.25"	2.00	004759
2½" x 2"	3.25"	2.20	003978
3" x 2"	3.69"	2.80	004528
3" x 2½"	3.69"	3.20	001242
4" x 3"	4.38"	5.40	005357



GROOVE CAP

SCH 40 Black Pipe Fabricated

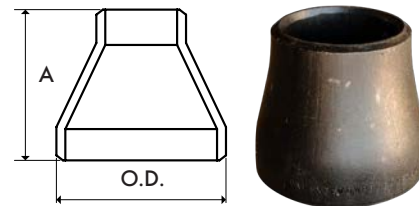
SIZE	WT/LB	PART#
3"	1.25	001359



THREAD TEE

Malleable Iron 150#

SIZE	A	WT/LB	PART#
1½"	1.94"	1.68	001319
2"	2.25"	2.49	006689
2½"	2.70"	5.02	001321
3"	3.08"	6.82	001322
4"	3.79"	11.69	001323



BELL REDUCER WELD

SCH 40 Black Steel • Concentric

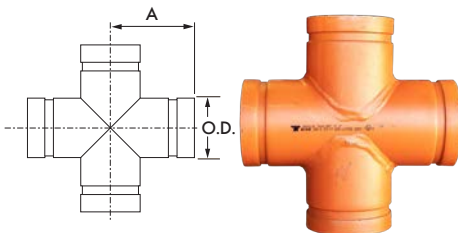
SIZE	O.D.	A	WT/LB	PART#
3" x 2"	3.5"x2.375"	3.5"	1.81	001656
3" x 2½"	3.5"x2.875"	3.5"	2.03	001657
4" x 3"	4.5"x3.5"	4"	3.24	001658
5" x 3"	5.563"x3.5"	5"	5.62	001659
5" x 4"	5.563"x4.5"	5"	5.60	006227



OUT CAP GROOVE BY FEMALE NPT

SCH 40 Black Pipe Fabricated

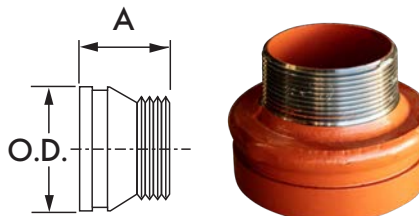
SIZE	WT/LB	PART#
3" Groove x ¾" FNPT	1.43	006612
3" Groove x 1½" FNPT	0.93	007337



GROOVE CROSS

Gruvlok 7068

SIZE	O.D.	A	WT/LB	PART#
3"	3.5	4¼"	9.71	001738



GROOVE BY MALE NPT REDUCER

Gruvlok 7076 • Schedule 40 Steel

SIZE	A	WT/LB	PART#
2½" X 2"	2½"	1.20	008395
3" x 2"	2½"	1.30	000707
3" x 2½"	2½"	1.50	002419
4" x 3"	3"	2.60	009190

CAP FEMALE NPT

Malleable Iron

SIZE	WT/LB	PART#
1½"	0.58	001220
2"	0.80	001728
2½"	1.64	001221
3"	2.22	001222



PLUG MALE NPT

Malleable Iron

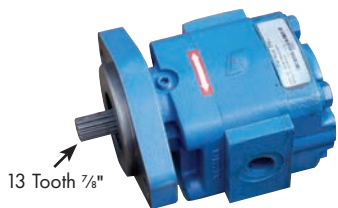
SIZE	WT/LB	PART#
¾"	0.25	007367
1½"	0.50	001309
2"	0.77	003471
2½"	1.19	005553
3"	1.73	001310
3" Epoxy Coated	1.75	009318
4"	2.87	003651
6"	10.01	004209

GROOVE REDUCER

Gruvlok 7072 • Ductile Iron

SIZE	O.D.	A	WT/LB	PART#
3" x 2½"	3.5"x2.875"	2½"	1.51	000713
4" x 3"	4.5"x3.5"	4"	3.20	007041
5" x 4"	5.563"x4.5"	5"	4.50	000714

See page 43 for PTFE thread sealants.

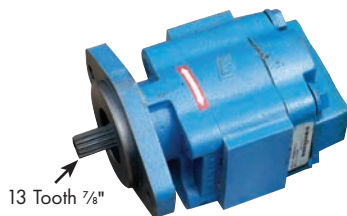


13 Tooth 7/8"

BI-DIRECTIONAL SERIES HYDRAULIC MOTOR

UnitedBuilt Hydraulic Motor

DESCRIPTION	WT/LB	PART#
1 1/2" Gear, SAEB, 3/4" ORB	35	007959



13 Tooth 7/8"

BI-DIRECTIONAL SERIES HYDRAULIC PUMP

UnitedBuilt Hydraulic Pumps

DESCRIPTION	WT/LB	PART#
1 3/4" Gear, SAEB, 1 1/4" ORB	40	008042
2" Gear, SAEB, 1 1/4" ORB	42	008043



HYDRAULIC RELIEF VALVE

Brand Hydraulics RL-10

DESCRIPTION	WT/LB	PART#
RL-10 Relief Valve 2000 PSI, 3/8" ORB	2.29	001015



MANUAL HYDRAULIC FLOW

Brand Hydraulics FC51-12SAE

DESCRIPTION	WT/LB	PART#
3000 PSI, 3/4" ORB	8.25	007358



FLOW CONTROL VALVE

Waterman 12 Volt

DESCRIPTION	WT/LB	PART#
3000 PSI Normally Open, 1" ORB	3.75	000767



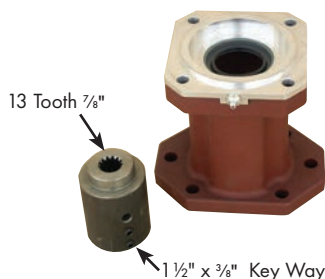
13 Tooth 7/8"

1 1/8" x 1/4" Key Way

HYDRAULIC ADAPTER BRACKET & COUPLER

Aftermarket Berkeley B07779

DESCRIPTION	WT/LB	PART#
SAEB Bracket & Coupler (Aftermarket)	15	K010288
Coupler Only, UnitedBuilt, Made in USA	1.75	0010156
Coupler & Key 1/4" x 1", UnitedBuilt, Made in USA	1.75	K010214
Key Stock 1/4" x 1"	0.04	0010211



13 Tooth 7/8"

1 1/2" x 3/8" Key Way

HYDRAULIC ADAPTER BRACKET & COUPLER

Fits Franklin 439M

DESCRIPTION	WT/LB	PART#
SAEB Bracket & Coupler	16.35	007151
Hydraulic Coupler	3.25	009379



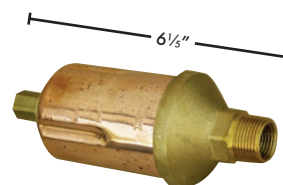
13 Tooth 7/8"

1 1/2" x 3/8" Key Way

HYDRAULIC ADAPTER BRACKET & COUPLER

Fits Franklin FMIH-40

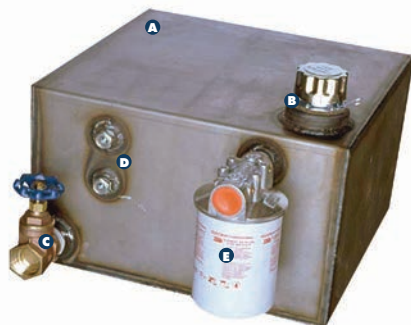
INDEX	DESCRIPTION	WT/LB	PART#
A	SAEB Bracket	18	009383
B	Hydraulic Coupler	2	008433
(A-B)	Bracket & Coupler	20	006207



AIR VENT

Hoffman #79

DESCRIPTION	WT/LB	PART#
Female NPT 1/4" x Male NPT 3/4"	1.23	004112



HYDRAULIC OIL TANK DECK MOUNT

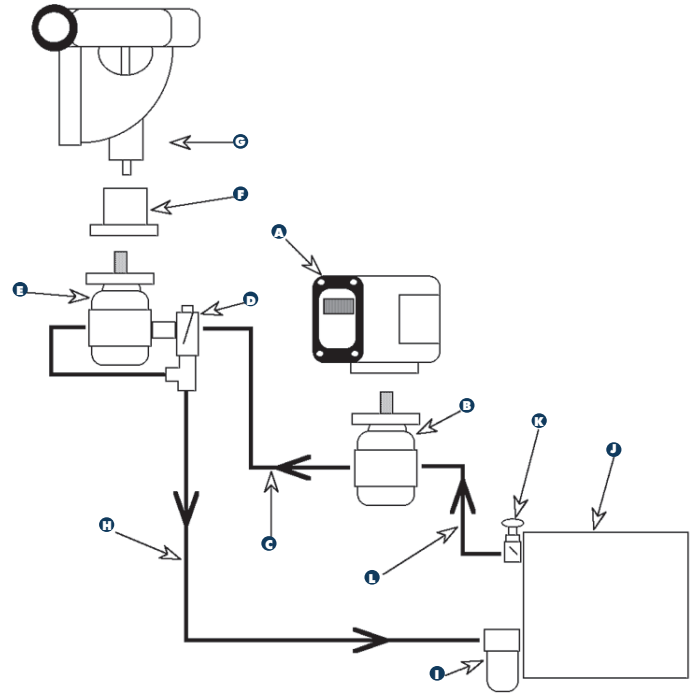
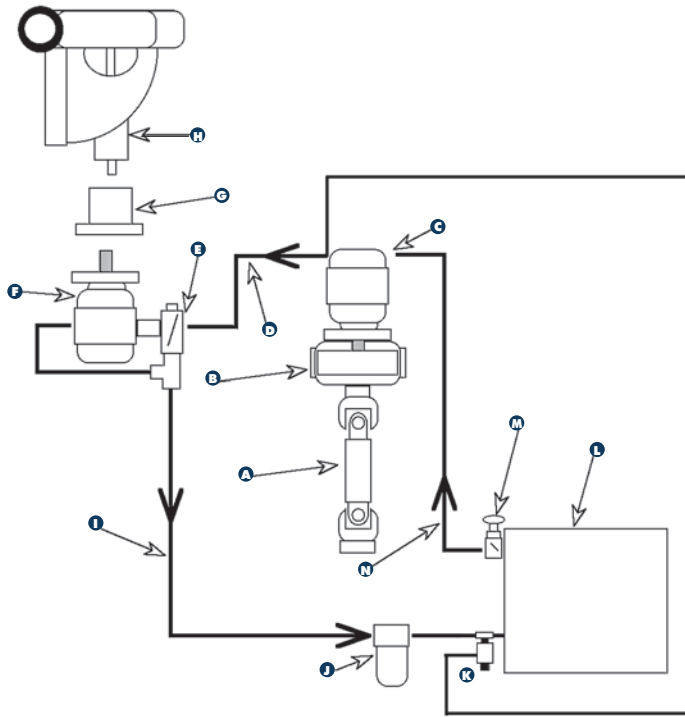
INDEX	DESCRIPTION	WT/LB	PART#
A	20 Gallon Hydraulic Tank	70	004238
B	Tank Cap, Strainer & Breather	0.74	002802
C	1 1/2" Gate Valve	2	001546
D	Brass Sight Plug, 1/2-14 NPT	0.05	010061
E	Filter Assembly	4	010046
(A-E)	20G Hyd Tank Kit (Unassembled)	78	006551



HYDRAULIC FILTER

DESCRIPTION	WT/LB	PART#
Replacement Filter, Hydec	2.25	000815
Filter Assembly, Hydec	4	002248
Filter Assembly, Force America	4	010046





**ENGINE BY HYDRAULIC DRIVE
WATER PUMP SYSTEM DIAGRAM**

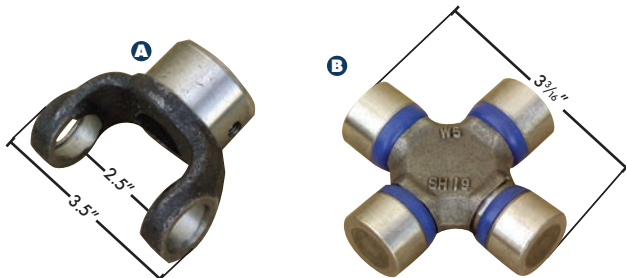
INDEX DESCRIPTION

A	1310 Series Drive Shaft
B	Pitts Clutch (Optional)
C	Bi-Directional Hydraulic Pump
D	3/4" High Pressure Hydraulic Hose 2250 Max PSI
E	Relief Valve
F	Bi-Direction Hydraulic Motor
G	Water Pump Hydraulic Adapter
H	Water Pump
I	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	1 1/2" Gate Valve
N	1 1/2" Hydraulic Hose Suction Line 350 Max PSI

**PTO BY HYDRAULIC DRIVE
WATER PUMP SYSTEM DIAGRAM**

INDEX DESCRIPTION

A	K Mount PTO
B	Bi-Directional Hydraulic Pump
C	3/4" High Pressure Hydraulic Hose 2250 Max PSI
D	Relief Valve
E	Bi-Direction Hydraulic Motor
F	Water Pump Hydraulic Adapter
G	Water Pump
H	3/4" Hydraulic Hose Return Line 750 Max PSI
I	Hydraulic Filter
J	Hydraulic Oil Tank
K	1 1/2" Gate Valve
L	1 1/2" Hydraulic Hose Suction Line 350 Max PSI



END YOKES & U-JOINTS 1310 SERIES

INDEX	DESCRIPTION	MODEL#	WT/LB	PART#
A	1 1/8" Shaft x 1/4" Key (B3ZRM(S) & B4ZRKS)	2-4-503	1.50	003704
A	1 1/4" Shaft x 5/16" Key (Chelsea PTO)	2-4-533	1.75	000885
A	1 1/2" Shaft x 3/8" Key (439M)	2-4-1233	1.80	007169
B	U-Joint 1310 Series Drive Shaft	5-153	1.12	000902

PTO SHAFT KEY & SET SCREW

INDEX	DESCRIPTION	WT/LB	PART#
A	Chelsea PTO Wood Ruff Key 500007-29	0.03	009758
B	Set Screw 3/8" x 3/4" Sq Head with 3/32" Hole	0.03	009759



PRESSURE BYPASS KIT

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



INDEX	DESCRIPTION	QTY	PART#
		REQUIRED	
A	AV1100 Water Truck Valve	1	008030
B	3" Groove Coupling	2	000687
C	3" x 8" Weld x Groove Nipple	1	003095
D	3" Weld Notch x Groove Nipple	1	004904
E	Adjustable Pressure Regulator	1	001597
F	Regulator Bracket	1	002885
G	Brass Bushing 1/4" x 1/8"	2	007642
H	Air Fit 1/4" Tube x 1/8", Straight	2	005546
I	Air Fit 1/4" Tube x 1/8", Tee	1	005548
J	Drain Valve 1/4" MNPT	1	007626
K	Quick Exhaust Valve Assembly	1	009786
(A-K)	Pressure Bypass Kit		007479



REAR SPRAY BAR KIT

Rear spray kit with adjustable spray heads.

INDEX	DESCRIPTION	QTY	PART#
		REQUIRED	
A	Rear Spray Bar 3"x66" GBE SCH40	1	003318
B	FNPT Half Coupler 1/4" (Not Welded)	2	009852
C	Airline 1/4" 25' Roll	2	004255
D	AV1100 Water Truck Valve	2	008030
E	Rear Bar Brackets	2	002005
F	BC2399 Adjustable Spray Heads	2	003484
G	3" Groove Coupling Rigidlok	2	000697
H	3" Groove Coupling	2	000687
I	Quick Exhaust Valve Assembly	2	009786
J	Drain Valve 1/4" MNPT	4	007626
K	1-Way Air Valve w/ Nameplate	2	001493
(A-K)	Rear Spray Bar Kit		007627



FRONT SPRAY BAR KITS

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

ADJUSTABLE SPRAY HEADS

INDEX	DESCRIPTION	QTY	PART#
		REQUIRED	
A	Front Spray Bar 3"x52" GBE SCH40	1	003634
B	FNPT Half Coupler 1/4" (Not Welded)	2	009852
C	Airline 1/4" 25' Roll	2	004255
D	AV1100 Water Truck Valve	2	008030
E	Front Bar Brackets	2	002137
F	BC2399 Adjustable Spray Heads	2	003484
G	3" Groove Coupling Rigidlok	2	000697
H	3" Groove Coupling	2	000687
I	Quick Exhaust Valve Assembly	2	009786
J	Drain Valve 1/4" MNPT	4	007626
K	1-Way Air Valve w/ Nameplate	2	001493
(A-K)	Front Spray Bar Fan Kit		007628



FAN NOZZLES - SUBSTITUTE F

INDEX	DESCRIPTION	QTY	PART#
		REQUIRED	
F	BC2384 Fan Duck Bill Nozzle	2	001048
(A-K)	Front Spray Bar Fan Nozzle Kit		008100

STREET FLUSHERS - SUBSTITUTE F

INDEX	DESCRIPTION	QTY	PART#
		REQUIRED	
F	BC2178 Flusher Duck Bill Nozzle	2	001043
(A-K)	Front Spray Bar Flusher Kit		007629

LOWERED STREET FLUSHERS - SUBSTITUTE F & G - ADD L

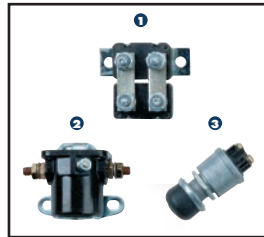
INDEX	DESCRIPTION	QTY	PART#
		REQUIRED	
F	BC2178 Flusher Nozzle	2	001043
G	3" Groove Coupling Rigidlok	4	000697
L	3" Groove 90°	2	000677
(A-L)	Front Spray Bar Lowered Flusher Kit		007630



Cox Crank Reel • 1 1/2" x 50'



American Crank Reel • 1 1/2" x 50'



Included with Electric Reel Kits



AMERICAN REEL KITS

INDEX	DESCRIPTION	PART#
(A-M)	1 1/2" x 50' Manual Rewind	009387
(A-M)	1 1/2" x 100' Manual Rewind	009624
(A-M) & (1-3)	1 1/2" X100' Electric Rewind 12 Volt	009711

HOSE REEL KITS

Manual or Electric

INDEX	DESCRIPTION	QTY	PART#
A	2" Preformed Punch Clamp	2	000610
B	1 1/2" Groove Coupling	1	000684
C	1 1/2" Groove x Hose Barb	1	002612
D	1 1/2" Rubber Water Hose	4FT	000738
E	1 1/2" MNPT x Hose Barb	1	001302
F	1 1/2" Street 90° MNPT x FNPT	1	001314
G	Tank Mount Brackets for Cox Reels	2	003609
G	Tank Mount Brackets for American Reels	2	008289
H	1 1/2" MNPT x Groove Nipple	1	002128
I	1 1/2" MNPT x Weld Nipple	1	003319
J	1 1/2" Gate Valve	1	001546
K	1" Adj. Plastic Fog Nozzle (1" Reel Kits)	1	003130
K	1 1/2" Adj. Plastic Fog Nozzle	1	001068
L	Rubber Hose Redline MNPTxMNPT	1	Varies
M	Hose Reel	1	Varies
N	1 1/2"x1" FNPT Reducer (1" Reel Kit)	1	004850
O	1" Thread Close Nipple (1" Reel Kits)	1	001763

ELECTRIC HOSE REEL KITS INCLUDE:

INDEX	DESCRIPTION	QTY	PART#
1	Circuit Breaker	1	003880
2	Solenoid	1	003881
3	Push Button Switch Heavy-duty	1	003882

COX REEL KITS

INDEX	DESCRIPTION	PART#
(A-O)	1" x 50' Manual Rewind	006543
(A-O)	1" x 100' Manual Rewind	006545
(A-M)	1 1/2" x 50' Manual Rewind	003867
(A-M)	1 1/2" x 100' Manual Rewind	004967
(A-M) & (1-3)	1 1/2" x 50' Electric Rewind 12 Volt	006092
(A-M) & (1-3)	1 1/2" x 100' Electric Rewind 12 Volt	006093

SUCTION FILL KIT

ID	DESCRIPTION	QTY REQUIRED	PART#
A	3" x 20' Suction Hose	1	002032
B	3" Suction Branch	1	004657
C	3" Butterfly Wafer Valve	1	002657
D	Support Strap for Suction Branch	1	002165
E	3" Male NPT x Male Camlock	1	000590
F	3" Camion Flange Female NPT	1	001260
G	3" Foot Valve	1	001535
H	3" Groove 90°	1	000677
I	3" Butterfly Valve Groove	1	003598
J	4" Butterfly Valve Groove	1	003606
K	3" Groove Coupling	3	000687
L	4" Groove Coupling	1	000689
M	3" x 8" Groove x Weld Nipple	1	003095
N	3" Groove x Weld Notch Nipple	1	006020
(A-N)	Suction Fill Kit		004758



PROTEK PRIMER

DESCRIPTION	PART#
DP7 Hand Primer	004616
DP7 Replacement Handle	007273
DP7 Diaphragm Kit	006360

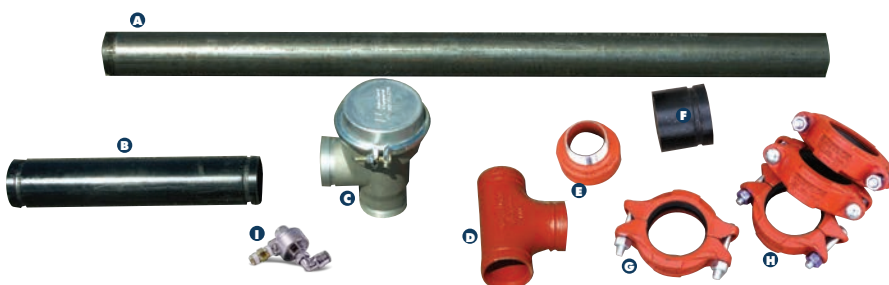


HAND PRIMER PLUMBING PARTS

DESCRIPTION	QTY REQ	PART#
Brass Bushing 3/4"x1/2"	1	006859
Thread Street 90D 1/2"	2	006863
Thread King Nipple 1/2"	2	003467
Hose Clamp 1/2" HS8	2	006858
Brass Ball Valve 1/2"	1	001510
Thread Close Nipple 1/2"	1	006861
Thread Half Coupler 1/2"	1	006916
Hose PVC Wire Clear 1/2"	5'	006857

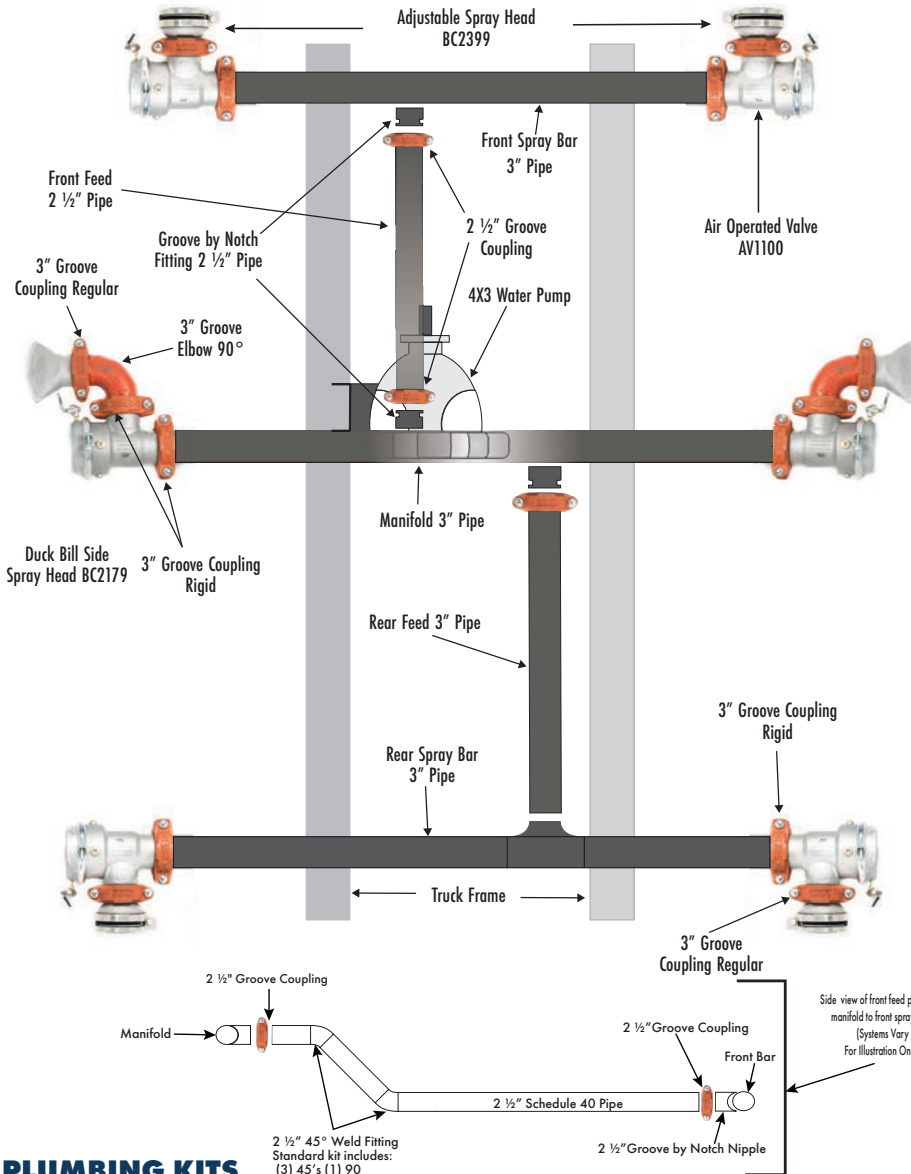
ELKHART REMOTE CANNON PLUMBING KIT

INDEX	DESCRIPTION	QTY REQUIRED	PART#
A	3" x 72" Groove x Weld SCH 40 Pipe	1	008313
B	3" x 18" Groove x Groove SCH 40 Pipe	1	007319
C	AV1100 Water Truck Valve	1	008030
D	3" Groove Tee	1	000716
E	3" Groove x 2 1/2" Male NPT	1	002419
F	3" Groove x Weld Nipple	1	001486
G	3" Groove Coupling Rigidlok	1	000697
H	3" Groove Coupling	3	000687
I	Quick Exhaust Valve Assembly	1	009786
J	Elkhart Nitro HD Cannon Kit w/ Joystick 350GPM	1	010091
(A-J)	Elkhart Nitro HD Plumbing Kit w/ Joystick		010051





6 SPRAY VALVE PLUMBING KIT



5 SPRAY VALVE PLUMBING KIT PICTURED



PLUMBING KITS

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 SCH 40 steel pipe with groove style flexible fittings.

WATER PUMP: Heavy-duty 4x3 centrifugal cast iron pump. UnitedBuilt M3ZRM(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 Centrifugal 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.

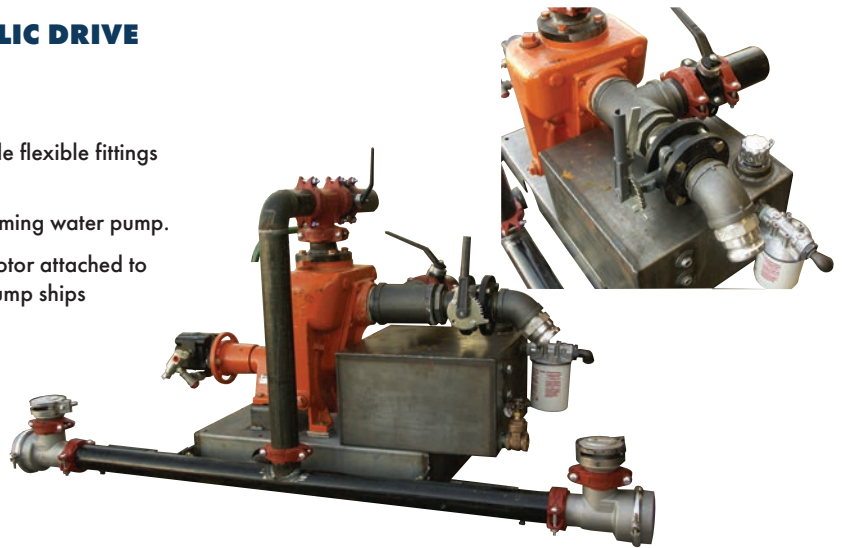
HYDRAULICS: Bi-Direction series hydraulics with motor attached to water pump. Hydraulic tank pre-plumbed. Hydraulic pump ships loose.

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.



REAR DECK PLUMBING KIT 4X3 PUMP HYDRAULIC DRIVE

Heavy-duty 4x3 Centrifugal 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 pre-plumbed. 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.



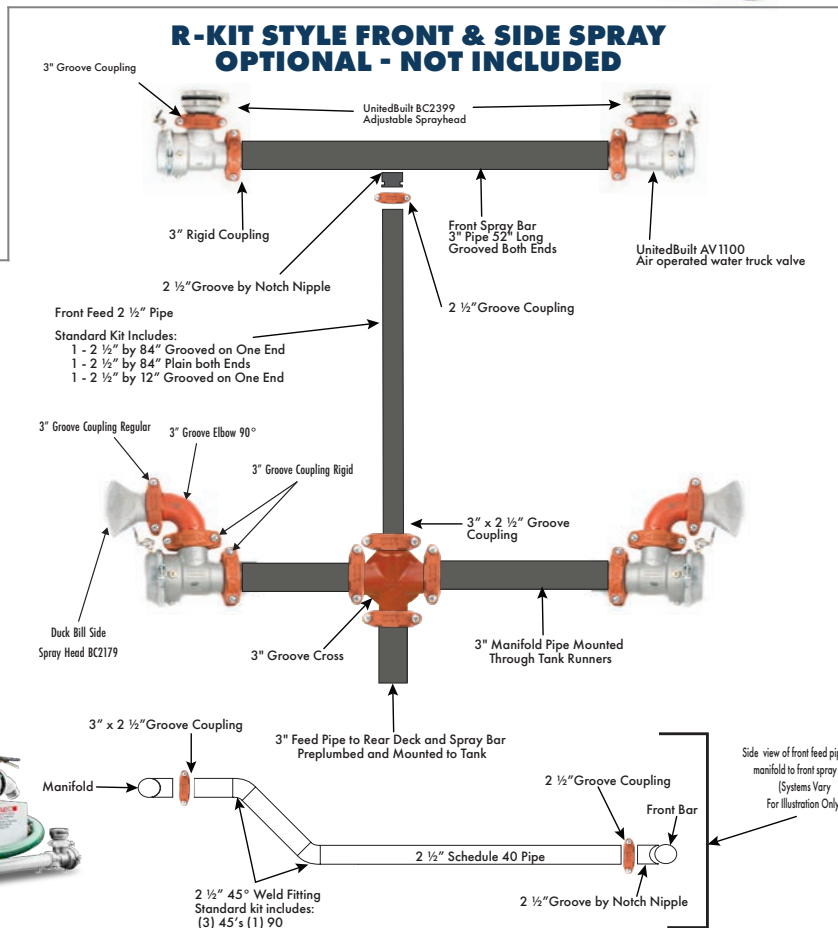
REAR DECK PLUMBING KIT OPTIONS:

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.

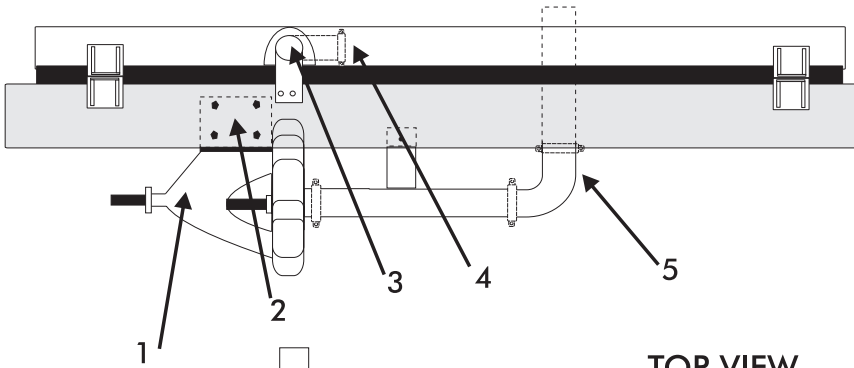
HOSE REEL: Manual or electric rewind

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

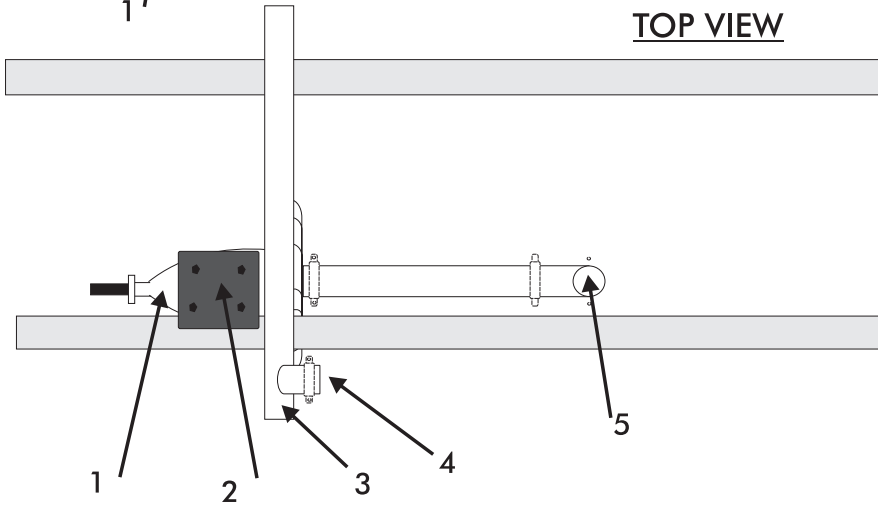




SIDE VIEW



TOP VIEW

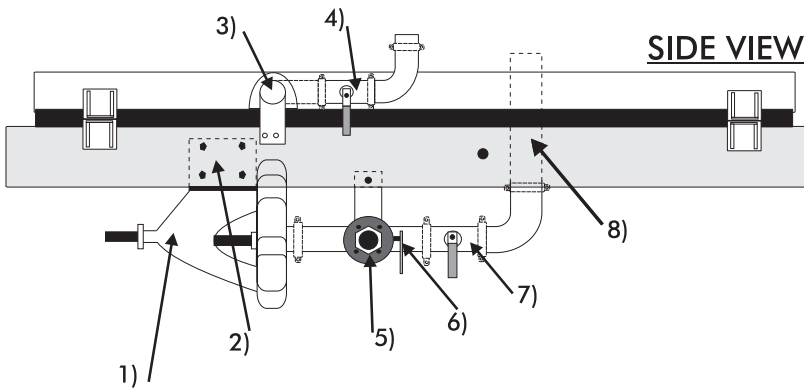


STANDARD FRAME MOUNTED 4X3 PUMP PLUMBING

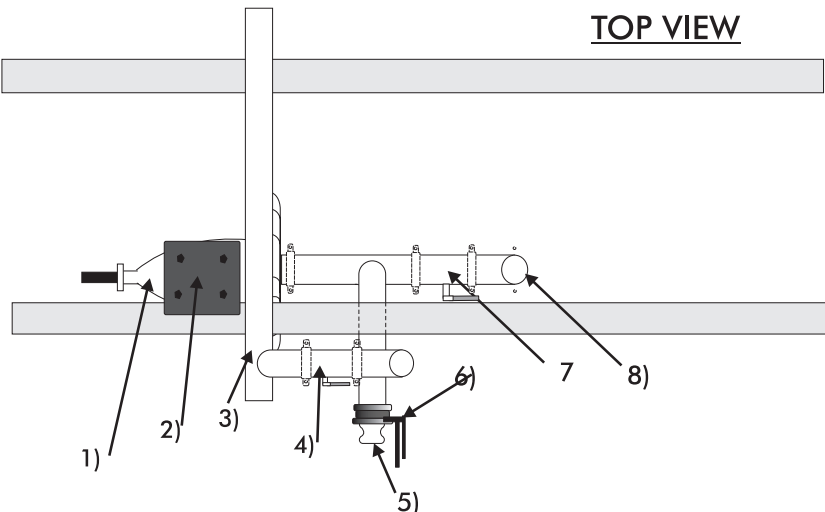
1. 4x3 Water Pump
2. Water Pump Mounting Bracket
3. 3" Manifold Pipe Mounted Across Frame Rails
4. Stubbed For Optional Suction Fill Plumbing
5. 4" Intake Pipe From Tank To Water Pump



SIDE VIEW



TOP VIEW



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





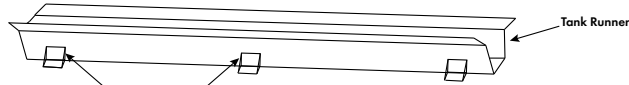
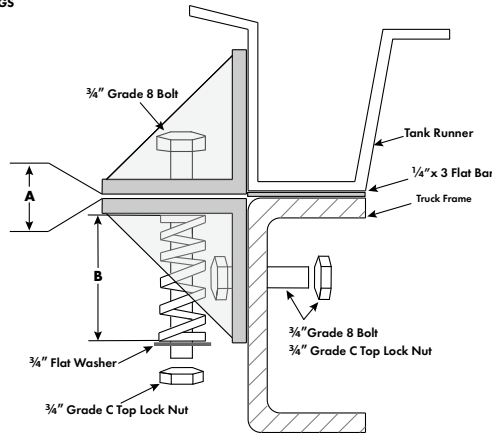
TANK MOUNTING WITH 1/4" x 3" FLAT BAR

FRONT TANK MOUNTS WITH SPRINGS

1. Mount lower tie down to truck frame, even with top of frame rail.
2. Use a 1/4" spacer between the upper and lower tie downs. (A)
3. Weld upper tie down to the tank runner, must be a continuous weld.

MIDDLE & REAR TANK MOUNTS

1. Mount lower tie down to truck frame, even with the top of frame rail.
2. Use an 1/8" spacer between the upper and lower tie downs. (A)
3. Weld upper tie down to the tank runner, must be a continuous weld.
4. Remove 1/8" spacer install bolts. Tighten until the outside of the tie downs make contact.



All welds must be a continuous weld.
All hardware must be 3/4" Grade 8.

NOTE: Drawing is not to scale.

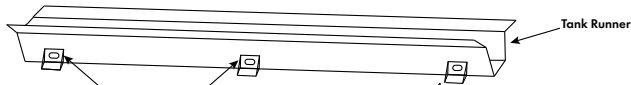
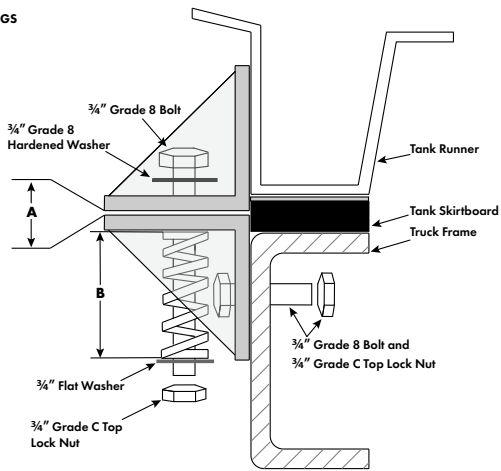
TANK MOUNTING WITH RUBBER SKIRTBOARD

FRONT TANK MOUNTS WITH SPRINGS

1. Mount lower tie down to truck frame, 1/2" above the top of frame rail.
2. Use a 1/4" spacer between the upper and lower tie downs. (A)
3. Weld upper tie down to the tank runner. The outer edge as well as the center of the tie down must be welded with a continuous weld.
4. Weld tie down guide to the back side of the upper tie down. (C)
5. Remove 1/4" spacer, install bolts with springs. Tighten until spring is compressed to 3/4" (B)

MIDDLE & REAR TANK MOUNTS

1. Mount lower tie down to truck frame, 1/2" above the top of frame rail.
2. Use an 1/8" spacer between the upper and lower tie downs. (A)
3. Weld upper tie down to the tank runner. The outer edge as well as the center of the tie down must be welded with a continuous weld.
4. Remove 1/8" spacer install bolts. Tighten until the outside of the tie downs make contact.



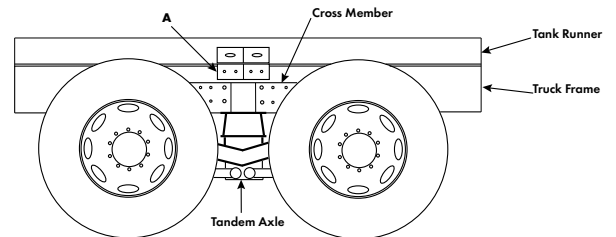
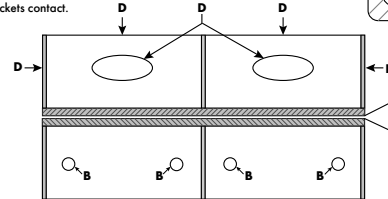
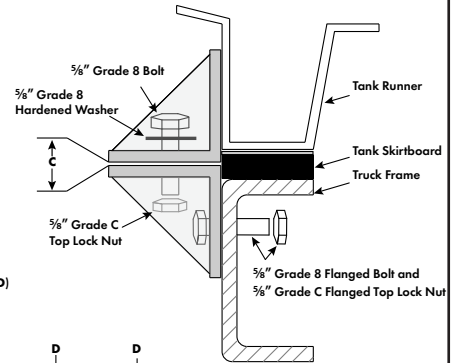
All welds must be a continuous weld.
Outer edge and center must be continuous weld.
All hardware must be 3/4" Grade 8.

C Tie down guides are welded to the back side of the top front tie downs after the tank is mounted.

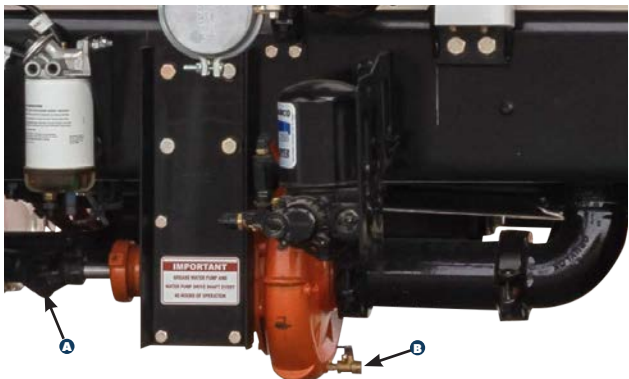
NOTE: Drawing is not to scale.

BOGIE BRACKET MOUNTING INSTRUCTIONS FOR TANKS OVER 4000 GALLONS

1. Remove the top huck bolts on the crossmember that is centered over the tandem. (A)
2. Drill 1 1/16" holes in the lower brackets matching the bolt pattern of the removed huck bolts. (B)
3. Mount the lower brackets to the truck frame a 1/2" above the top of the frame rail. Using 5/8" Grade 8 Flanged bolts and 5/8" Grade C Flanged top lock nuts.
4. Use an 1/8" spacer between the upper and lower brackets. (C)
5. Weld upper bracket to the tank runner. The outer edge as well as the center of the bracket must be welded with a continuous weld. (D)
6. Remove the 1/8" spacer. Install the 5/8" Grade 8 bolts and Grade C top lock nuts, tighten until the outside of the brackets contact.



NOTE: Drawing is not to scale.



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.



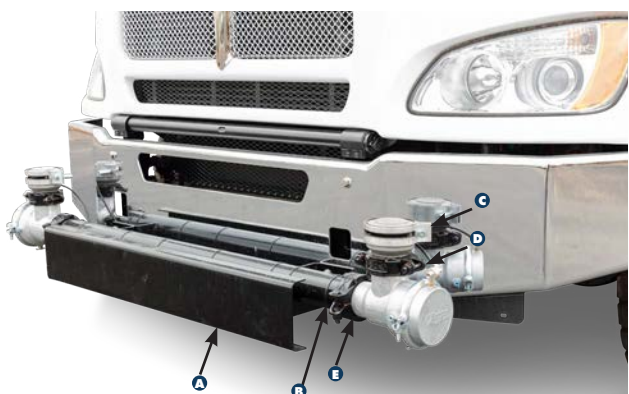
(A) The 3" rear spray bar tees into the supply line. (B) 3" manifold with grooved ends to be installed at a specified mid-ship location. The manifold pipe and rear bar pipe are mounted to the outside of the frame rail with bolt on brackets.



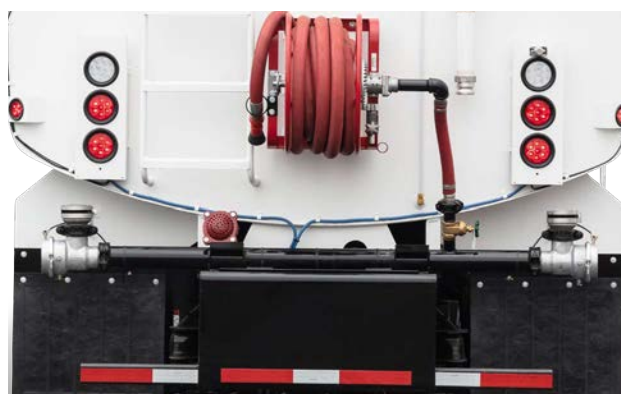
Top view of water pump mounted frame rail on driver side. Plumbed to manifold with rear supply pipe attached.



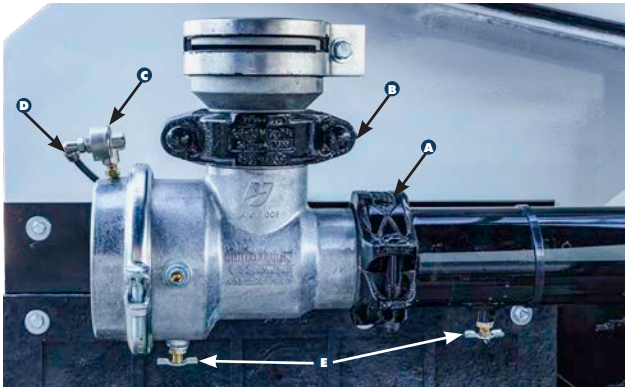
(A) Cut out arch in the tank runner for the manifold pipe mounted to the frame rail. (B) 1 1/2" brass jet valve mounted on passenger side of truck. Note the mounting bracket for the manifold pipe.



Plumbing from manifold to the front bar is 2 1/2" 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.



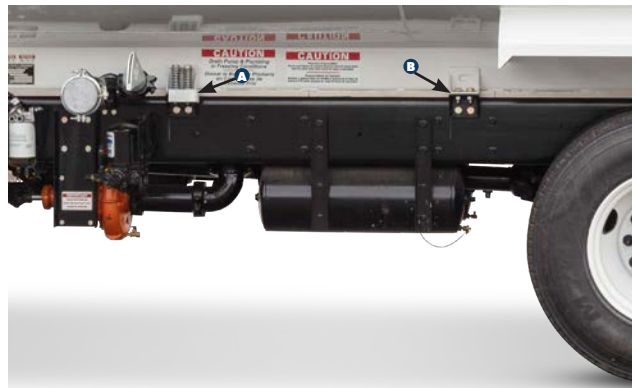
Spray valves are independently controlled with in the in cab mounted control tower. Each switch is plumbed with 1/4" airline to a spray valve for independent control.



(A) Push plate is constructed of 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.

HYDRAULIC

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.
3. 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. Lubricate pump and PTO drive shaft every 40 hours of operation 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 operating, 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 operating, 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 skirtboard 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

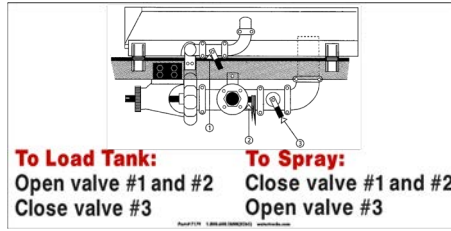


**FOR COMPLETE INVENTORY & TO ORDER PARTS GO TO
WATERTRUCKS.COM**



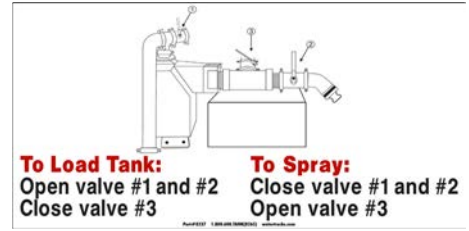
UNITEDBUILT TANK LOGO

SIZE 4 1/4" x 13 1/2"
PART# 08180



SUCTION FILL: FRAME MOUNT

SIZE 6" x 12"
PART# 07179



SUCTION FILL: REAR DECK

SIZE 6" x 12"
PART# 08237



CAUTION: PTO BOLTS

SIZE 6" x 12"
PART# 07571



CAUTION: DRAIN PUMP

SIZE 6" x 12"
PART# 07178



CAUTION: LEGAL WEIGHT

SIZE 6" x 12"
PART# 07177



CAUTION: SPRAYHEADS

SIZE 3" x 5"
PART# 08498



IMPORTANT: GREASE PUMP

SIZE 3" x 5"
PART# 08414



WARNING: ROTATING SHAFTS

SIZE 5" x 7"
PART# 08321



WARNING: PTO ENGAGEMENT

SIZE 3 1/2" x 4 3/8"
PART# 08521



WARNING: ROLLOVER RISK

SIZE 3 1/2" x 4 3/8"
PART# 08215

NON POTABLE WATER

NON POTABLE WATER

SIZE 3 1/2" x 3' 3 1/2"
PART# 03213



TRUCK SPECIFICATION FORM

BUSINESS NAME _____
 CUSTOMER NAME _____
 PHONE _____ FAX _____
 ADDRESS _____
 CITY _____ STATE _____ ZIPCODE _____



MAKE _____
 MODEL _____
 YEAR _____
 CONVENTIONAL CABOVER
 ENGINE _____
 TRANSMISSION _____
 FRONT AXLE CAPACITY _____
 REAR AXLE CAPACITY _____ RATIO _____
 CAB TO AXLE (CA) _____
 CAB TO CENTER OF TANDEM (CT) _____

TANK SIZE (GAL) _____
 PTO DRIVE HYDRAULIC DRIVE
 SPRAY HEADS _____
 HOSE REEL _____
 SUCTION FILL _____
 MONITOR _____
 EPOXY COATING _____
 GRAVITY DROP _____
 HOT SHIFT PTO _____
 POWDER COAT _____

NOTES: _____



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