

MEGA SOURCEBOOK

WATER DISTRIBUTION EQUIPMENT

THERE'S WORK TO BE DONE



EQUIPMENT ▶

PARTS ▶

SUPPORT ▶

SUPPORT

THE BEST PRODUCT SUPPORT IN THE MARKET

WE SUPPORT YOU

Mega's products are used throughout the world in a wide variety of applications and environments. Our product support team provides full-time technical support, on-site field assistance, training and after-hours emergency parts service. We also maintain a large inventory of repair and maintenance parts for all of our products.

Our product support specialists are highly-qualified technicians with years of experience. Our representatives will come on-site to provide operator training, technical assistance and service advice, including system installation, configuration and best practices.

We invite you to come and check out our website which includes the following features:

- » Online parts catalog where you can buy parts online!
- » Improved user experience with refreshed layouts and graphics
- » Responsive design, adapts to user devices of various sizes & types
- » Client portal with the ability to see previous orders and invoices
- » Improved, faceted search function



DOWNLOAD
SOURCEBOOK

@ www.megacorpinc.com



**PARTS AND PRODUCT SUPPORT AVAILABLE
24 HOURS A DAY, SEVEN DAYS A WEEK**

Product Support 505.345.2661 • U.S. 1.800.345.8889 • After Hours & Weekend 505.506.1806

THERE'S WORK TO BE DONE



We are genuine in every sense of the word.

We offer more than just a product; we provide detailed product support and personal on-site assistance by qualified experts no matter where you are located in the world.

Mega developed the first spray head valve designed specifically for roadway water distribution applications (patented in 1976). We also patented a baffled water tank design (M.A.S.S.) that revolutionized the market. We are the pioneers and our priorities are high quality, long-lasting durability, and exceptional service.



THERE'S WORK TO BE DONE



For over 45 years, Mega has been providing specialty haulage equipment for use in construction and mining operations. Our water haulage equipment, service bodies, bottom-dump trailers, equipment transports and other products are designed and manufactured to be reliable and durable machines. The knowledge and experience that comes from delivering over 6,000 machines is built into every product we make.

Our employees take pride in their workmanship and Mega has developed a reputation for manufacturing quality products that are built to last. Our sales and product support staff are known for providing solutions and demonstrating integrity throughout the ownership experience. Our product's value is reflected in our industry-leading brand recognition and resale value – Genuine Mega products have become the standard by which others are measured.

Mega products, parts and service can be found at OEM construction and mining equipment dealers around the world. Our sales and product support departments at Mega are available to help answer your questions. For more information, please contact us @ +1 505.345.2661 or toll free in the USA at 1.800.345.8889 or on the web at www.megacorpinc.com.

There's work to be done – and, from all of us at Mega, we want to help you do it!



Jim Kunz

President Emeritus & CDO



Follow us on social media.

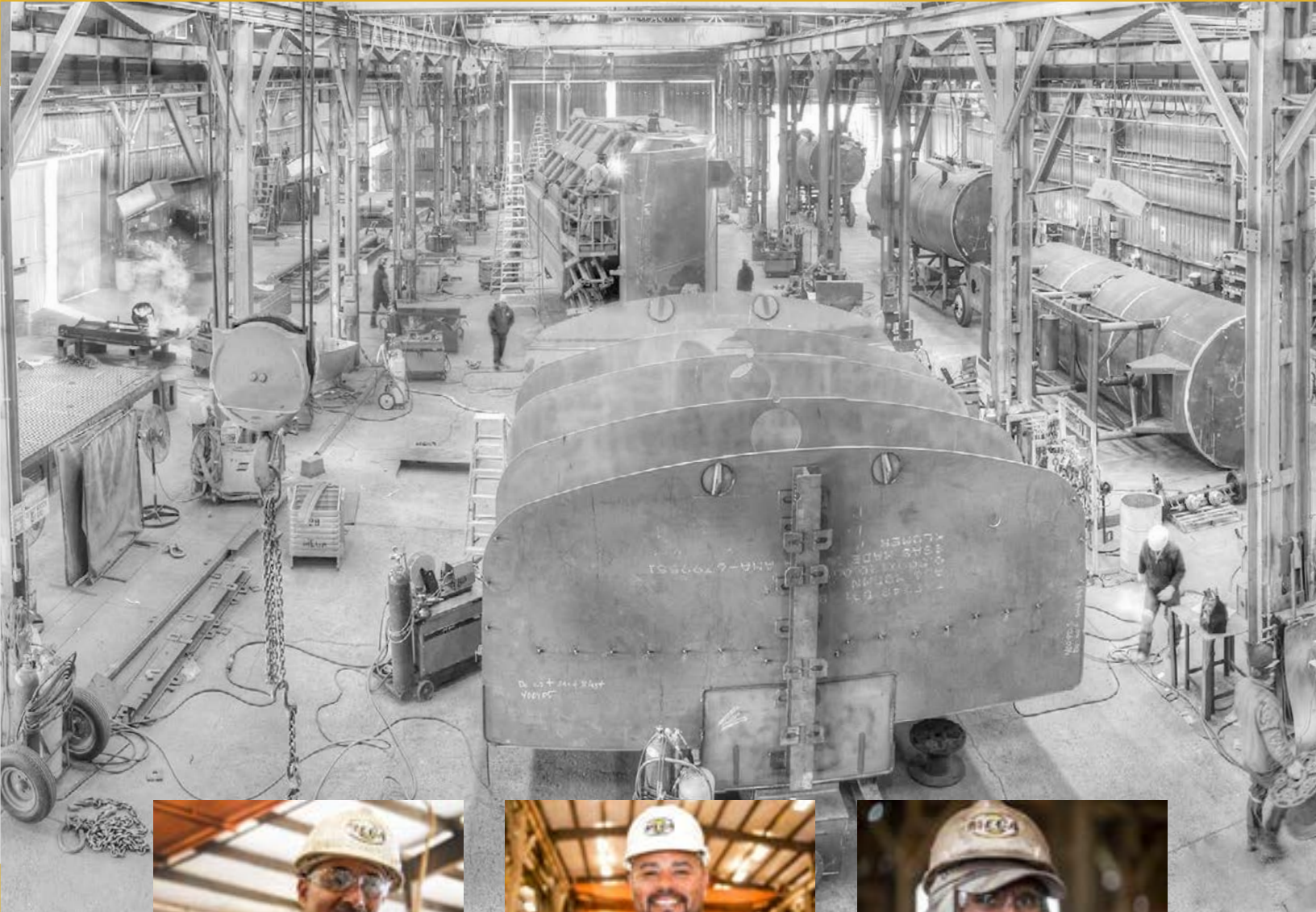
#GENUINEMEGA

www.megacorpinc.com

➤ WE APPRECIATE YOU AND OUR PRODUCTS SHOW IT



We are not a **BIG** business, but we do **BIG** things.



➤ **VISION**

To be recognized as the leading supplier of specialty haulage products for the global construction and mining industry.

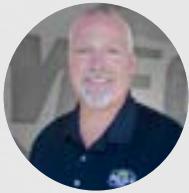
➤ **MISSION STATEMENT**

Mega will create benefits for our customers, employees, shareholders, and the communities in which we do business by developing, manufacturing, and marketing specialty haulage products for the construction and mining industry that provide the best value to our customers.



WE SHOW UP YOUR MEGA TEAM

➤ EQUIPMENT SALES



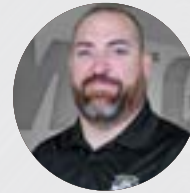
JIM KUNZ
President Emeritus & CDO
jkunz@megacorpinc.com
505.345.2661



DYLAN F. THOMAS
Director of Sales & Marketing
dthomas@megacorpinc.com
505.850.9800



JOHN STUBBS
Regional Sales Manager
jstubbs@megacorpinc.com
505.259.5975



KEN KNOTTS
Regional Sales Manager
kknotts@megacorpinc.com
505.322.9770



JESSICA M. MANZANARES
Regional Sales Manager
jmanzanares@megacorpinc.com
505.341.6979



CLAUDIO CÓRDOVA M.
Independent Sales Representative
Latin America
ccordova@megacorpinc.cl
011.56996476128



CRUZ SCHLEGEL
Marketing Administrator
cschlegel@megacorpinc.com
505.341.6964



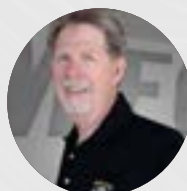
EDWIN D. SMITH
Sales Assistant
esmith@megacorpinc.com
505.341.6997



BETZAIDA RUIZ
Senior Graphic Designer
bruiz@megacorpinc.com
505.341.6966

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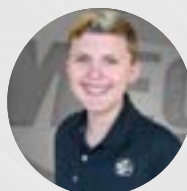
PRODUCT SUPPORT & PARTS SALES



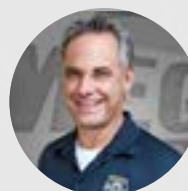
NORM REDENSHEK
Director of Part Sales,
Product Support & Quality Assurance
nredenshek@megacorpinc.com
505.235.4650



JOSE BARRAZA
Parts Sales Representative
jbarraza@megacorpinc.com
505.341.6969



ALEX FLORES
Parts Sales Representative
aflores@megacorpinc.com
505.314.4648



CHAD GERMANY
Parts Sales Representative
cgermany@megacorpinc.com
505.312.3732



BILL TAYLOR
Product Support
Sales Representative
btaylor@megacorpinc.com
505.341.6988



JEFF GUY
Product Support
Sales Representative
jguy@megacorpinc.com
505.341.6989



RICHARD ECKERT
Product Support
Sales Representative
reckert@megacorpinc.com
505.998.6515



LIZ WOOD
Technical Writer
lwood@megacorpinc.com
505.998.6507



➤ MEGA PARTS RETURN POLICY

Our intention is to make the parts return process as fast and easy as possible. To return a part contact our Parts Sales team at parts@megacorpinc.com or 800.345.8889. Please have at least one of the following items available:

- › Your purchase order number
- › Mega Sales Order number
- › Mega Invoice number

If a part is returnable we will issue a Return Materials Authorization (RMA) form. Your return shipment must include a copy of the RMA. The RMA is valid for 30 days from the date of issue and returned parts will not be accepted for credit after the RMA expiration date. Return freight charges are the responsibility of the customer.

The return shipment should be sent to the following address:

Mega Corp.
Attention: Return Warehouse
700 Osuna Rd. NE
Albuquerque, NM 87113

Returned Parts must meet the following criteria:

- › Parts must be returned within 90 days of the original purchase date.
- › Returned parts must be in "like new" condition. Parts deemed not acceptable will not be eligible for credit.
- › Rubber parts and parts containing rubber are not returnable.
- › Special order parts are not returnable.
- › Returned parts must be listed on the RMA to be eligible for credit.

**ACCEPTED RETURNS WILL BE CREDITED TO YOUR ACCOUNT OR CREDIT CARD
(LESS A 35% RESTOCKING FEE). NO CASH REFUNDS WILL BE ISSUED.**



FREQUENTLY ASKED QUESTIONS

Can I buy Mega parts without using the website?

You can buy Mega parts through an authorized Mega dealer or by calling Mega Parts Sales directly at 505.345.2661 or toll free at 1.800.345.8889.

What are your hours of operation?

Mega is open Monday through Friday from 7am to 5pm Mountain Standard Time. We offer an after-hours weekend service by calling 505.918.7271.

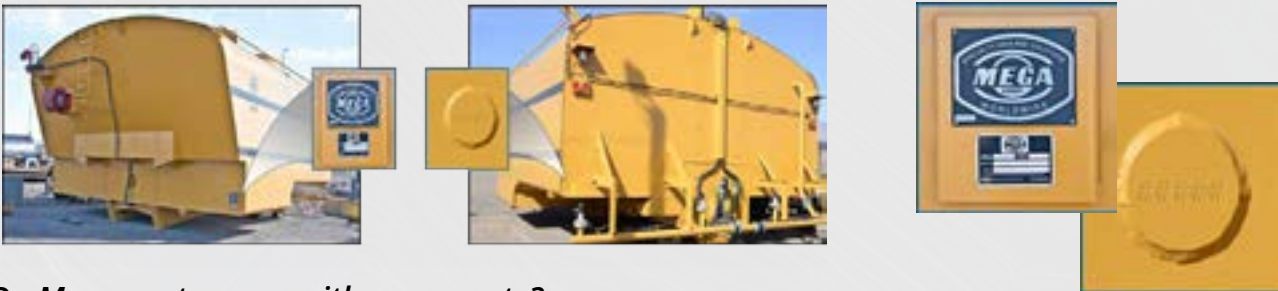
How do I cancel an order?

All order cancellations must be presented in writing to Mega. These can be e-mailed to parts@megacorpinc.com.

Orders may or may not be cancelable. A Mega representative will call to confirm the details of the cancellation. Mega reserves the right to refuse cancellation on PTO (Purchase To Order) or MTO (Made-To-Order) parts.

Where do I find Mega serial and model numbers on my piece of equipment?

For faster service, please provide a Mega serial number when you call. These can be found on either in the front or back of the tank. Please go to our find serial number page on our website (under the warranty section) for more detailed information @ <https://www.megacorpinc.com/sitefooter/findserialnumber.asp>



Do Mega parts come with a warranty?

Mega warrants parts against defects in materials and workmanship. For more information please contact the Mega Warranty Administrator at warranty@megacorpinc.com if you have any questions or call Mega Parts Sales at 505.345.2661.

How do I get a copy of an invoice?

Call 800.345.8889 with your customer purchase order number, order number or account number and we can provide a copy of your invoice. If you have a website account you can view previous invoices from the account management link.

Can I download the parts book from your website?

Yes. Visit our website to download our Mega Sourcebook @ <http://www.megacorpinc.com>



**DOWNLOAD
SOURCEBOOK**

GENUINE MEGA WARRANTY COVERAGE FOR YOUR PARTS

If you have any questions or need assistance with warranty coverage or filing a claim, please contact Mega us at 505.345.2661, (800) 345.8889, or warranty@megacorp.com. For more information, visit our website: <https://www.megacorp.com/productsupport/warranty.asp>.

FORMS YOU WILL NEED

To start a parts warranty claim you will need to complete and send the following form to the warranty administrator. Please visit our website to download the forms.

Warranty Form - Submitted by dealers to claim reimbursement under warranty.

MEGA PARTS POLICY

Mega warrants its parts against defects in material and workmanship for a period of six months from invoice date. Spray control systems are covered under the parts warranty policy.

Parts returns for reasons other than warranty are allowed for a period of 90 days. Parts are subject to inspection and must be in new condition to be eligible for credit. Certain parts are not eligible for return, such as special order and normal wear items. Parts returned for non-warranty reasons are subject to a 35% restocking fee.

Mega does not warrant malfunctions and failures resulting from misuse, negligence, alteration, accident, or lack of maintenance. In addition, travel mileage, labor and related expenses will not be covered.

This warranty becomes null and void when the product is disassembled or materially altered without prior approval from Mega. Parts replaced under this warranty become the property of Mega. All items replaced must be returned to Mega. The customer is responsible for freight charges for returned parts.

RESPONSIBILITIES

Mega Responsibilities

If a defect in material or workmanship is found during the warranty period, Mega will:

Provide (at Mega's discretion) new, remanufactured, Mega-approved repaired parts or assembled components needed to correct the defect.

- Reimburse costs for reasonable and customary labor hours needed to correct the defect.

User/Customer Responsibilities

- Contact Mega for authorization prior to the repair.
- Costs associated with transporting the product or warranty item to the place of repair.
- Costs to investigate complaints, unless the problem is caused by a defect in Mega materials or workmanship.
- Labor costs except as stated under "Mega Responsibilities".
- Premium or overtime labor costs.
- Local taxes, if applicable.

- Give timely notice of a warrantable failure and promptly making the product available for repair.
- Performance of required maintenance and items replaced due to normal wear.
- Provide standard shop consumables to include shop towels and cleaning solvents.
- Allow Mega access to any electronically stored data relevant to the warranted product's application.

WARRANTY CLAIM PROCEDURE

Warranty Repair and Warranty Claim—All repairs during warranty period must be made with Mega approval to maintain warranty coverage. Contact Mega Product Support for repair procedures and approval. Warranty claims must be filed and received by Mega within 90 days of the failure/incident to be considered for compensation. Reference Mega warranty claim procedure. Invoices submitted for parts and labor will not be considered for warranty coverage.

Parts Return—Parts may only be returned for warranty credit or replacement with prior approval from Mega via a Return Material Authorization (RMA). Contact Mega for RMA number and instructions. All returned parts are subject to evaluation prior to credit approval.

Payment of Claims—Payment of all warranty claims and parts returns are made by credit to the customer account.

Limitations of Warranty—Warranty will be void or limited under the following conditions:

- Unauthorized repairs adjustments or modifications to structures, controls, or spray system during warranty period.
- Any use or installation that Mega judges improper.
- Attachment of accessory items and parts not sold by Mega.
- User's delay in making the product available for inspection or modification after being notified of a potential problem.
- Failure to return parts as described on Return Material Authorization (RMA).

This warranty is expressly in lieu of any other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. Remedies under this warranty are limited to the provision of material and services, as specified herein. Mega is not responsible for incidental or consequential damages.

THERE'S WORK TO BE DONE



MEGA SPRAY HEADS

Originally patented in 1976, the Mega Spray Head Valve is a combination water control valve and fully adjustable fan spray nozzle that produces a flat, dense variable spray pattern.

Mega spray head valves are available in both pneumatic and hydraulic models to accommodate any heavy equipment application.



GENUINE IMEGA



MEGA SPRAY HEAD VALVES

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MEGA SPRAY HEAD VALVES



Mega developed and patented its spray heads in 1976 and has continually improved them since. Each Genuine Mega spray head is fully adjustable for fan volume, width, and direction. Precision water application is a simple matter of proper selection of spray head settings and the number of spray heads activated.

Standard Mega spray head valves are constructed of a high-quality aluminum alloy metal and we also offer stainless steel models. Our spray head valves are available in both pneumatic and hydraulic actuated models.



MEGA HYDRAULIC SPRAY HEADS

The Mega hydraulic spray head valve utilizes a custom-made, high quality, heavy-duty, double-acting hydraulic cylinder to open and close the valve portion of the spray head. This spray head is suitable for any heavy equipment prime mover, and requires a hydraulic spray control system.



MEGA PNEUMATIC SPRAY HEADS

Air pressure produced by the prime mover's pneumatic system opens and closes the pneumatic spray head valves. Air pressure forced into the valve closes the spray head. Release of air pressure from the top spray head cavity allows the valve to open. This spray head is suitable for any heavy equipment prime mover with a pneumatic system, and requires a pneumatic spray control system.

HAVE CORROSIVE WATER?

We Offer Complete Stainless Steel Spray Heads



Our complete stainless steel spray heads are best suited to resist corrosion and abrasion by the harsh waters often found in mining and construction environments. Stainless steel's resistance to corrosion and durability along with low maintenance make Mega stainless steel spray heads the ideal spray head for the toughest environments. *This is an optional feature.*



ADVANTAGES AND BENEFITS OF MEGA SPRAY HEADS



MEGA SPRAY HEADS ARE FULLY ADJUSTABLE!

All Mega spray heads are adjustable and can be fine tuned to provide the optimal water distribution for a specific application. This allows for high efficiency, reduced water consumption, and prevention of roadway over watering.



ADJUSTABLE BASE PLATE

Mega spray heads can be rotated 360° on their base plate mounts to adjust the horizontal direction of the discharge spray for each individual spray head.



ADJUSTING RING

An adjusting ring allows for simple and easy control over the discharge spray flow and fan width.

VERTICAL ORIENTATION

With the spray head set level with the ground, water exits at a 10° upward angle above horizontal, creating a uniform, fully atomized fan of water. In hot and very arid climates, water can be quickly lost to evaporation as it settles onto the hot ground. Optional swivels on spray heads allow them to be tilted downward to concentrate the spray fan onto the ground. This is also useful for flushing and sweeping operations.

Additionally, Mega offers a Vertical Side Spray (VSS) option for both hydraulic and pneumatic spray heads. With this option, a Mega spray head is mounted vertically on each side of the water tank. The resulting vertical fans of water are ideal for spraying hillsides, piles, berms, and for reinforcing fire-fighting black lines.



Check out our spray head adjustment video on our YouTube channel @ [youtube.com/MegaCorpABQ](https://www.youtube.com/MegaCorpABQ)

OVERWATERING HAZARDS

Recently, overwatering of mine haul roads has been the subject of increased study by mine planning and safety. Many mines have improved their efficiency, lowered resource and equipment maintenance costs, and improved the safety of their working conditions by employing water conservation practices.

SAFETY

Safety is the most important factor to consider. Overwatering of roadways decreases tire traction (skid resistance), increases brake time, destabilizes fill slopes, and hastens erosion, all of which place the haulage truck operators at a much higher risk for potentially fatal or traumatic haulage accidents. In wet road conditions, haulage trucks cannot stop as quickly as on dry roads, and forceful application of brakes can easily result in the truck skidding out of control and colliding with safety berms. Additionally, standing water can soften road bases, potentially leading to washouts and collapsing of fill sections and slopes.

WATER WASTE

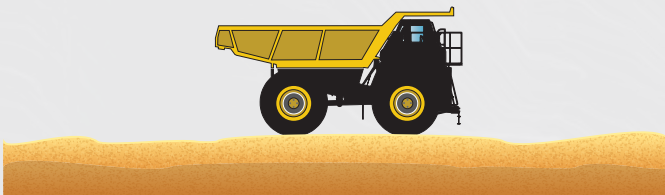
Water conservation is extremely important, particularly in drier climates where water is already a scarce and precious resource. Many governments have implemented strict regulations concerning water usage, and require mines to develop and adhere to a water conservation plan. These areas include (but are not limited to) South Africa (through the Department of Water Affairs), California (through the California Department of Conservation), Texas (through the Texas Administrative Code Title 30, Chapter 288), and most regions and cities in Australia.

LABOR AND RESOURCES

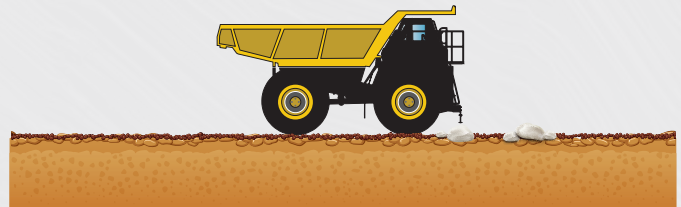
It has already been mentioned that overwatering degrades road quality. In order to maintain overwatered, eroding haul roads, the roads must be serviced and repaired more frequently, at the cost of resources and man-hours. The heavier a water truck's spray is, the quicker its tank is emptied. This is perhaps the most obvious consequence of overwatering. When using too much water, water trucks are required to return to water fill stations more often, wasting both fuel and man-hours as well as subjecting the over-watered roads to heavier traffic.

TIRE WEAR

A haul road in good, safe condition will have a compacted top layer of fine, cushioning particles protecting tires from the larger, coarse, sharp rocks below. Overwatering erodes away this protective top layer, subjecting tires to severe wear by the exposed coarse rocks. Not only is this costly in terms of tire replacement, but also in terms of production rates and man-hours—a grader must resurface the road in order to repair it, and the road cannot be used by haul trucks during this time.



Normal haul road with compacted top layer.



Overwatered road washes away protective top layer exposing rocks below.

HOW MEGA CAN HELP YOU OPTIMIZE YOUR WATER APPLICATIONS



Over-watering of haul roads has been the subject of increased study by mine planning and safety personnel. Many mines have improved their efficiency, lowered resource and equipment maintenance costs, and improved the safety of their working conditions by employing water conservation practices.



We understand that our most precious natural resources are limited. Water conservation is essential for reducing waste and for safe road conditions, which is why we emphasize efficient water usage methods and equipment.



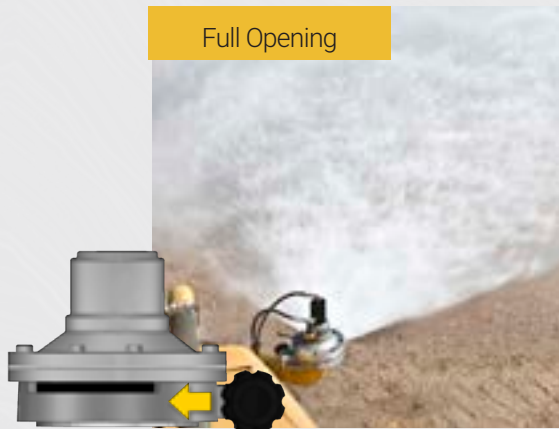
ADAPTABILITY

SPRAY PATTERN CUSTOMIZATION

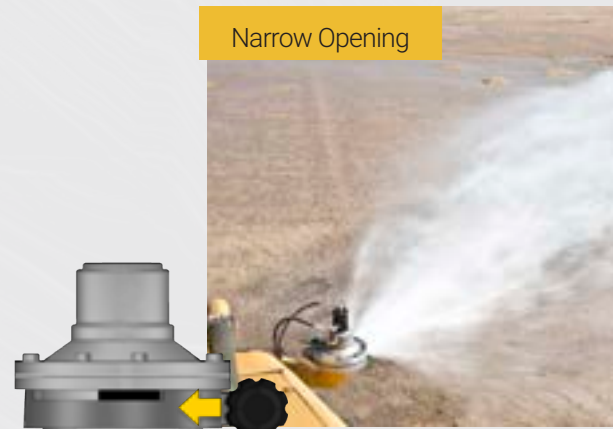
Mega spray heads can be adjusted to create a wide variety of spray patterns through horizontal rotation of the spray head and adjustment of the flow rate and fan width of each individual spray head. This ability to orient and adjust the flow of water from each spray head allows the operator to create the ideal spray pattern for nearly any application.

HORIZONTAL ORIENTATION AND FAN WIDTH

Mega spray heads can be rotated on their base plate mounts to adjust the horizontal direction of the discharge spray for each spray head, allowing the spray heads to be aimed for optimal spray coverage. An adjusting ring allows for further customization by providing control over the width of the spray fan. The adjusting ring can be rotated to widen or narrow the spray between a 90° and a 10° fan opening.



A Mega spray head in the default full 90° opening setting emits a wide, even fan of fine spray.



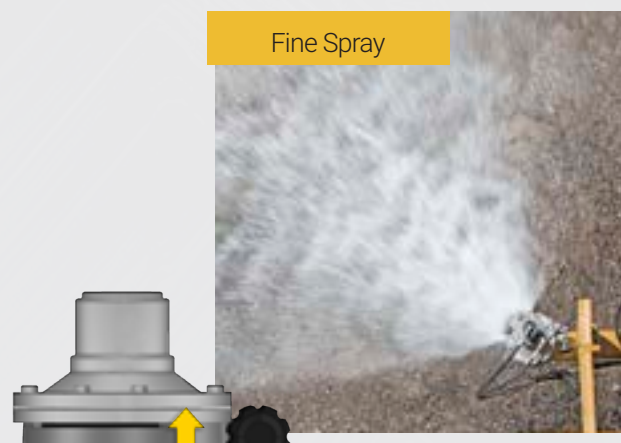
A Mega spray head adjusted to a narrower opening width sprays a more focused stream of water that travels further.

SPRAY INTENSITY

An adjusting ring allows for simple and easy control over the spray intensity. A 3/8 inch tall opening ("heavy spray" setting) will provide heavy, short-range spray appropriate for ground material that is very sandy or porous, or for extremely hot and dry environments where a heavy lay-down of water is necessary to saturate the ground. The 1/4 inch opening provides a finer, longer-reaching spray ideal for precision watering and water conservation.

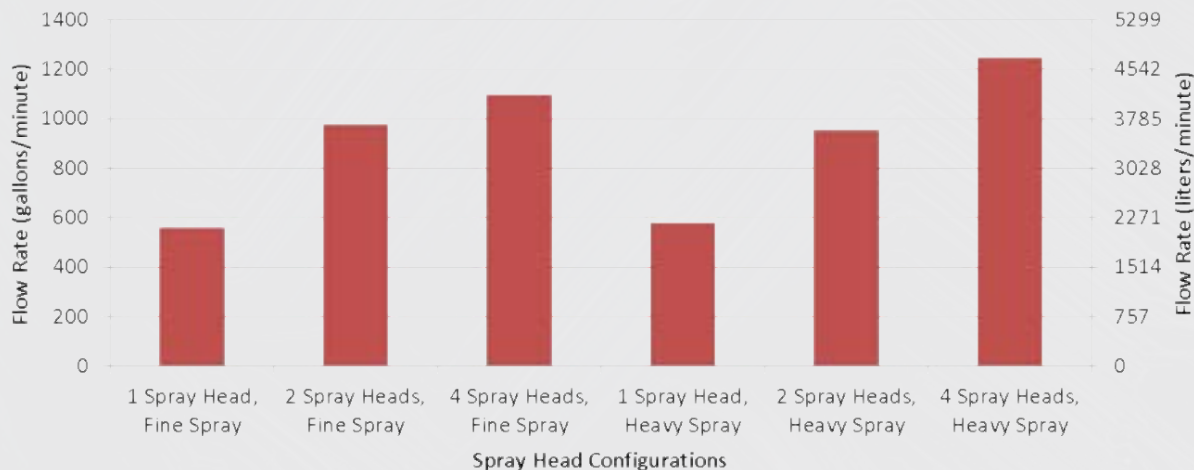


The "heavy" spray head opening is 3/8 inch tall. This setting provides a very heavy spray of water with reduced width and reach.



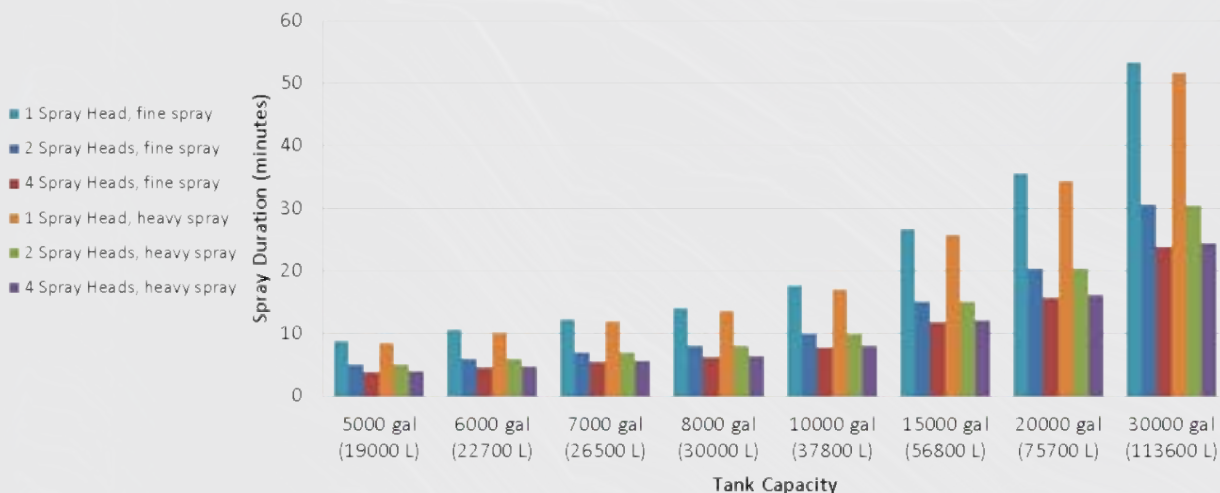
The "fine" spray head opening is 1/4 inch tall. This setting results in a finer spray of water with maximum reach and width at high pump speeds. This is the recommended setting for most water distribution applications.

SPRAY HEAD CONFIGURATION FLOW RATES (MEGA M4B WATER PUMP)



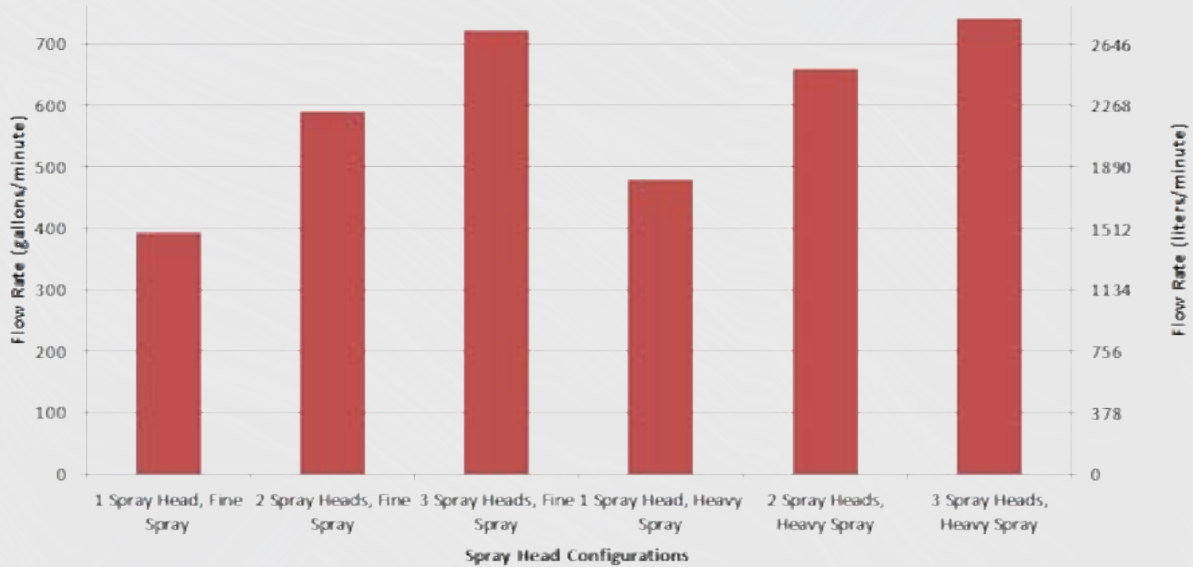
Total flow rates of different spray head configurations. The approximate total flow rates in gallons/minute (left vertical axis) and liters/minute (right vertical axis) of four possible spray head configurations. The “fine spray” opening is 1/4 inches in height, and the “heavy spray opening” setting is 3/8 inches in height. These flow rates were recorded on an MST8 CAT621K with an M4B Mega water pump.

Approximate Spray Duration (Mega M4B Water Pump)



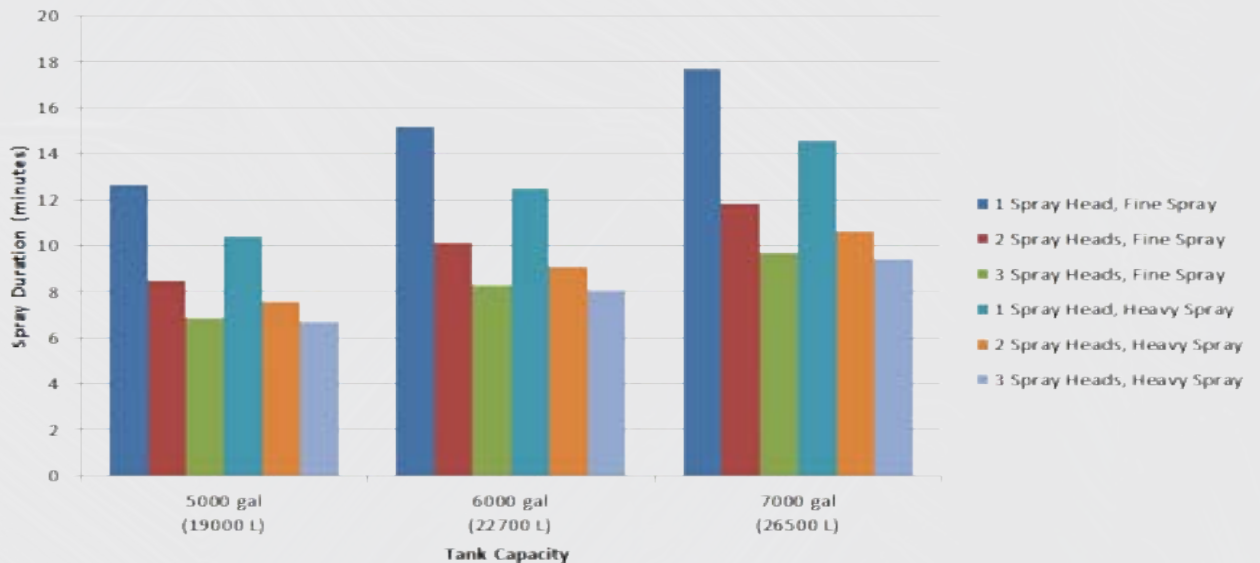
Estimated spray duration for various capacity tanks with four different spray head configurations. Spray duration in minutes is shown on the vertical axis. The “fine spray” opening is 1/4 inches in height, and the “heavy spray opening” setting is 3/8 inches in height. These flow rates were recorded on an MST8 CAT621K with an M4B Mega water pump.

SPRAY HEAD CONFIGURATION FLOW RATES (MEGA M3 WATER PUMP)



Total flow rates of different spray head configurations. The approximate total flow rates in gallons/minute (left vertical axis) and liters/minute (right vertical axis) of three possible spray head configurations. The “fine spray” opening is 1/4 inches in height, and the “heavy spray opening” setting is 3/8 inches in height. These flow rates were recorded on an MAC6 CAT730 with an M3 Mega water pump.

Approximate Spray Duration (Mega M3 Water Pump)

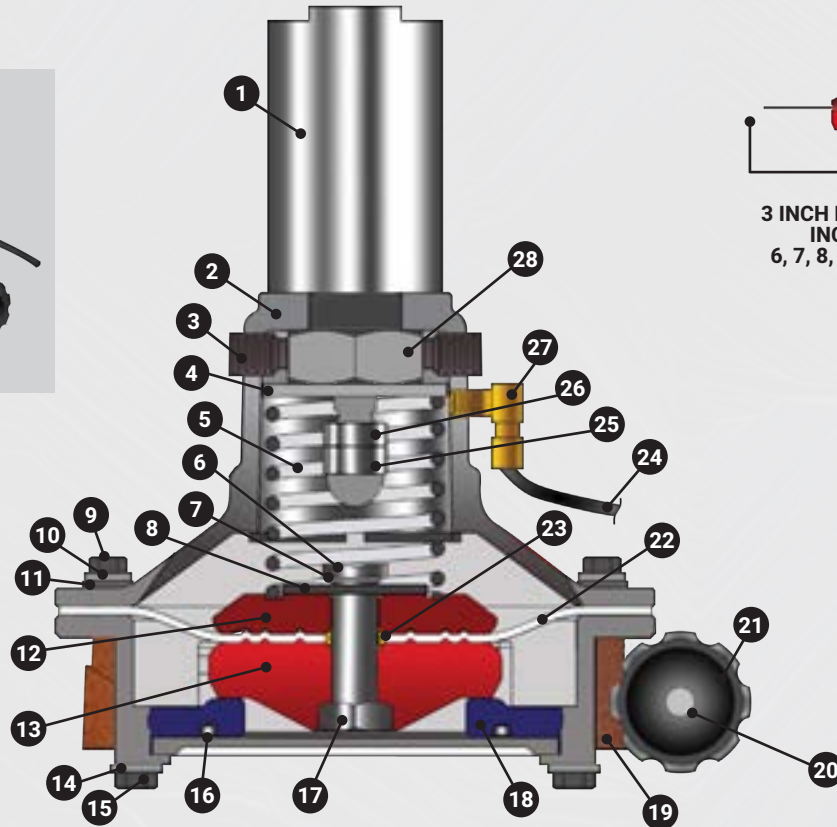


Estimated spray duration for various capacity tanks with four different spray head configurations. Spray duration in minutes is shown on the vertical axis. The “fine spray” opening is 1/4 inches in height, and the “heavy spray opening” setting is 3/8 inches in height. These flow rates were recorded on an MST8 CAT621K with an M4B Mega water pump.

Mega Spray Head, 3 inch, Hydraulic, Stainless Steel

Part No. 047062

The Mega stainless steel hydraulic spray head is optimized for use in the most severe environments. The stainless steel hydraulic spray head shares the same design as the Mega aluminum hydraulic spray head, with the exception that all metallic parts that come into contact with water during use are stainless steel. The Mega 3 inch hydraulic spray head valve is actuated by a long life stainless steel double-acting hydraulic cylinder.



**3 INCH DROP-IN ASSEMBLY
INCLUDES ITEMS:
6, 7, 8, 12, 13, 17, 22, & 23**

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	047062	Spray Head, 3 inch, Hydraulic, Stainless Steel	1	16	354502	O-Ring, Base	1
1	306808	Hydraulic Cylinder, Stainless Steel	1	17	307321	*Stem Nut, Stainless Steel	1
2	046660	Upper Housing, Stainless Steel	1	18	045099	Lower Housing Base, Stainless Steel	1
3	354513	Set Screw, Cylinder	2	19	055611	Adjusting Ring, Bronze	1
4	350011	Washer, 1 1/4 inches	1	20	308917	Hex Head Cap Screw 3/8-16 X 2 inch, Stainless Steel	1
5	305304	Spring	1	21	306788	Adjusting Ring Knob	1
6	307320	*Stem Bolt, Stainless Steel	1	22	300208	*Diaphragm	1
7	307329	*Flat Washer	1	23	300215	*O-Ring, Stem	2
8	307330	*Flat Washer	1	24	351141	Nylon Tubing, 3/8 inch, 8 inch long Tube	1
9	306661	Cap Screw, 5/16 X 1 1/4 inch Stainless Steel	8	25	307331	Acorn Nut, 1/2-20 Stainless Steel	1
10	355337	Lock Washer, 5/16 inch Stainless Steel	8	26	307360	Jam Nut, 1/2-20 Stainless Steel	1
11	355336	Flat Washer, 5/16 inch Stainless Steel	8	27	351082	Elbow, 1/4 inch, NPT-3/8 inch Tube	1
12	300210	*Upper Guide Disk	1	28	305294	Nut, Cylinder Retaining	1
13	300209	*Lower Guide Disk	1	29	307322	Drop-In Assembly	1
14	306764	Flat Washer, Eccentric, Stainless Steel	4				
15	306805	Cap Screw, 3/8 UNC X 1/2 inch, Stainless Steel	4				

*These parts are included in the Drop-in Assembly.

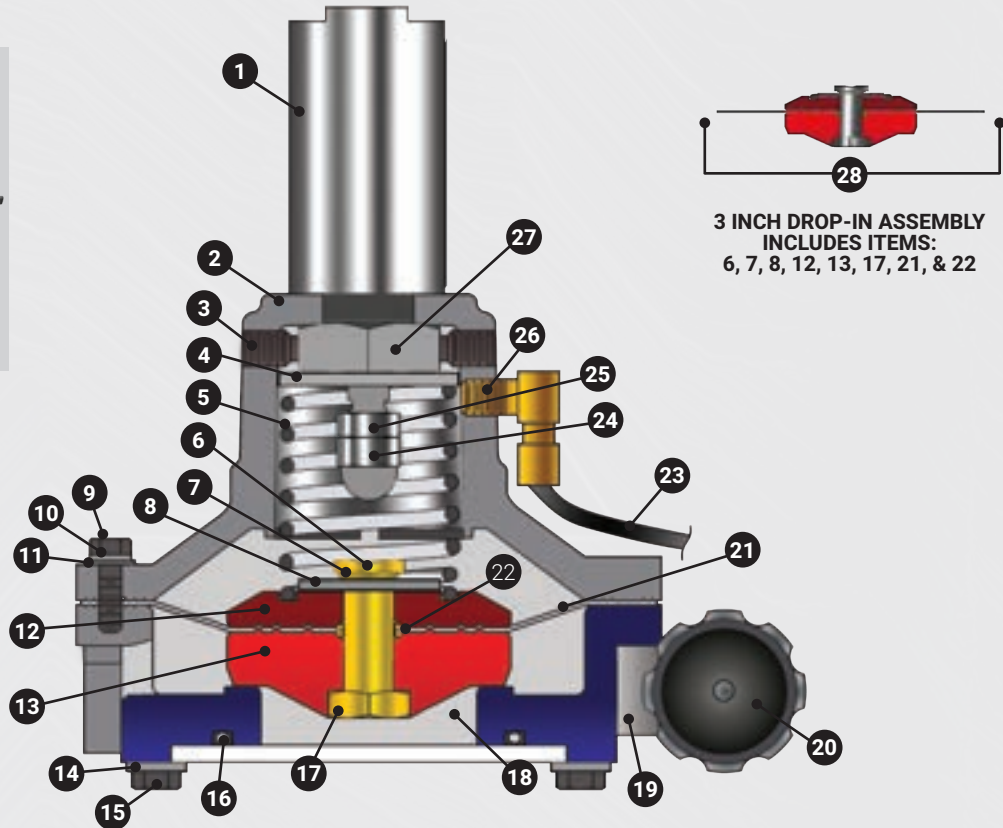
If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

REV 00G 8/1/2019 updated 3.2023

Mega Spray Head, 3 inch, Hydraulic, Aluminum

Part No. 025610

The Mega 3 inch hydraulic spray head valve is actuated by a long life double acting hydraulic cylinder. The Mega hydraulic spray head is designed for use in harsh conditions and/or where there is no air supply available.



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	025610	Spray Head, 3 inch, Hydraulic, Aluminum	1	16	354502	O-Ring, Base	1
1	306808	Hydraulic Cylinder, Stainless Steel	1	17	307321	*Stem Nut, Stainless Steel	1
2	025615	Upper Housing , Aluminum	1	18	300207	Lower Housing Base, Aluminum	1
3	354513	Set Screw, Cylinder	2	19	300216	Adjusting Ring, Aluminum	1
4	350011	Washer, 1.25 inches, Stainless Steel	1	20	302912	Adjusting Ring Knob	1
5	305304	Spring	1	21	300208	*Diaphragm	1
6	307320	*Stem Bolt, Stainless Steel	1	22	300215	*O-Ring, Stem	2
7	307329	*Flat Washer	1	23	351141	Nylon Tubing, 3/8 inch, 8 inch long Tube	1
8	307330	*Flat Washer	1	24	307331	Acorn Nut, 1/2-20 Stainless Steel	1
9	355335	Cap Screw, 5/16 X 1 1/4 inch	8	25	307360	Jam Nut, 1/2-20 Stainless Steel	1
10	355337	Lock Washer, 5/16 Stainless Steel	8	26	351082	Elbow, 1/4 inch, NPT-3/8 inch Tube	1
11	355336	Flat Washer, 5/16 Stainless Steel	8	27	305294	Nut, Cylinder Retaining	1
12	300210	*Upper Guide Disk	1	28	307322	Drop-In Assembly	1
13	300209	*Lower Guide Disk	1				
14	355295	Flat Washer, Stainless Steel	4				
15	355294	Cap Screw, 3/8 X 3/4 inch	4				

REV 00H 10/5/2018
updated 3.16.24

*These parts are included in the Drop-in Assembly.

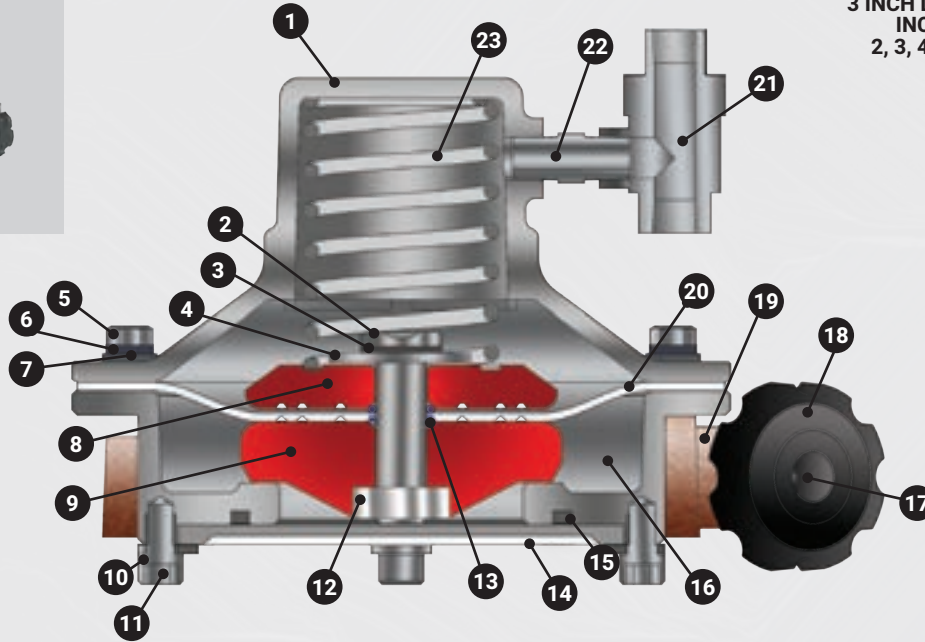
If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

Mega Spray Head, 3 inch, Pneumatic, Stainless Steel

Part No. 052926

The Mega stainless steel pneumatic spray head is optimized for use in the most severe environments and shares the same design as the hydraulic and aluminum spray heads, with the exception that all metallic parts that come into contact with water during use are stainless steel.

- Corrosion resistant
- Fully adjustable flow and spray pattern
- Low maintenance and fully rebuildable



**3 INCH DROP-IN ASSEMBLY
INCLUDES ITEMS:
2, 3, 4, 8, 9, 12, 13 & 20**

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	052926	Spray Head, 3 inch, Pneumatic, Stainless Steel	1	13	300215	*O-Ring, Stem	2
1	052751	Upper Housing, Stainless Steel	1	14	042137	Plastic Dust Cover	1
2	307320	*Stem Bolt, Stainless Steel	1	15	354502	O-Ring, Base	1
3	307329	*Flat Washer	1	16	045099	Lower Housing Base, Stainless Steel	1
4	307330	*Flat Washer, Stainless Steel, 5/8 in	1	17	306769	Cap Screw, 3/8X16-2.00, Stainless Steel	1
5	306661	Cap Screw, Stainless Steel, 5/16 X 1 1/4 inch	8	18	306788	Adjusting Ring Knob	1
6	355337	Lock Washer, 5/16 Stainless Steel	8	19	055611	Adjusting Ring, Bronze	1
7	355336	Flat Washer, 5/16 Stainless Steel	8	20	300208	*Diaphragm	1
8	300210	*Upper Guide Disk	1	21	309106	Exhaust Valve, 1/4 NPT, Stainless Steel	1
9	300209	*Lower Guide Disk	1	22	309105	Adapter, - 4 NPT -4 NPT 304 , Stainless Steel	1
10	306805	SHCS 3/8 UNC X 1/2 inch, Stainless Steel	4	23	300213	Spring	1
11	306764	Eccentric Washer, Stainless Steel, 3/8	4	24	307322	Drop-In Assembly	1
12	307321	*Stem Nut, Stainless Steel	1				

*These parts are included in the Drop-in Assembly.

If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

updated 3.2023

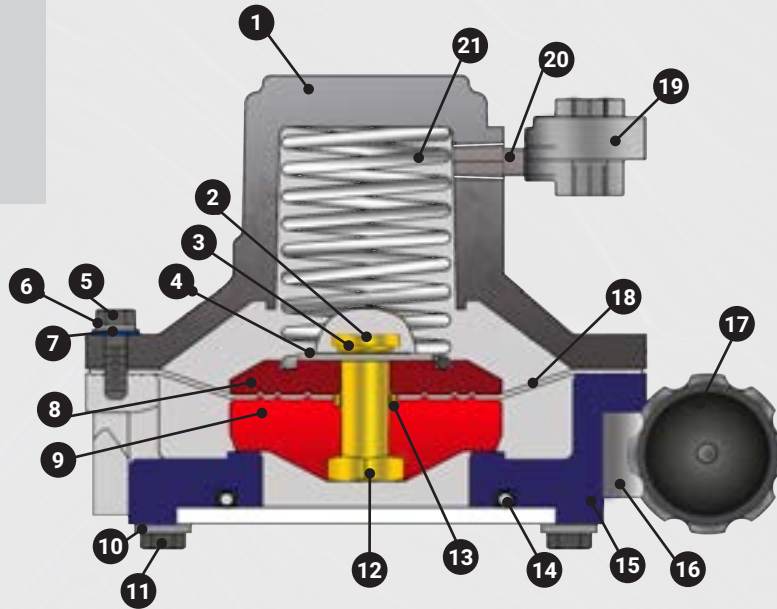
Mega Spray Head, 3 inch, Pneumatic, Aluminum

Part No. 300198

The Mega pneumatic spray head is actuated by pressure regulated air supplied by the tractor. The anodized and hardened aluminum provides superior protection from corrosive water.



**3 INCH DROP-IN ASSEMBLY
INCLUDES ITEMS:
2, 3, 4, 8, 9, 12, 13, & 18**



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	300198	Spray Head, 3 inch, Pneumatic, Aluminum	1	13	300215	*O-Ring	2
1	300206	Upper Housing , Aluminum	1	14	354502	O-Ring, Base	1
2	307320	*Stem Bolt , Stainless Steel	1	15	300207	Lower Housing Base, Aluminum	1
3	307329	*Flat Washer	1	16	300216	Adjusting Ring, Aluminum	1
4	307330	*Flat Washer	1	17	302912	Adjusting Ring Knob	1
5	355335	Cap Screw, 5/16 X 1 1/4 inch, Stainless Steel	8	18	300208	*Diaphragm	1
6	355336	Flat Washer, 5/16 Stainless Steel	8	19	300468	Quick Discharge Valve, Pneumatic	1
7	355337	Lock Washer, 5/16 Stainless Steel	8	20	352467	Nipple, Quick Discharge Valve, Pneumatic	1
8	300210	*Upper Guide Disk	1	21	300213	Spring	1
9	300209	*Lower Guide Disk	1	22	307322	Drop-In Assembly	1
10	355295	Flat Washer, Stainless Steel	4				
11	355294	Cap Screw, 3/8 X 3/4 inch	4				
12	307321	*Stem Nut, Stainless Steel	1				

*These parts are included in the Drop-in Assembly.

If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

REV 00H 10/5/2018
updated 3.16.24



THE **GENUINE MEGA** DIFFERENCE MEGA SPRAY CONTROL SYSTEMS

At the core of water truck operations is a spray control system that integrates with each water distribution component (spray head valves, water pump, dump bar, etc) and brings them under the direction of the operator. Genuine Mega spray control systems are the foundation of our industry-leading water distribution products. Our spray control systems (SCS) are engineered to be durable and reliable, and can be integrated with any water distribution platform.

Mega hydraulic and pneumatic spray control systems seamlessly integrate with your chassis and existing Mega spray components. They also easily integrate with other platforms and components with minor modifications. To purchase a Mega spray system please contact our sales team 505.345.2661 or toll free 1.800.345.8889.

DISCS®- DIGITAL SPRAY CONTROL SYSTEM

P/N 053130-FCS Retro Kit
P/N 053130-FCL Retro Kit Lite

ELECTRO-HYDRAULIC SPRAY SYSTEM

P/N 047400

ELECTRO-PNEUMATIC SPRAY SYSTEM

P/N 044987

MANUAL PNEUMATIC SPRAY SYSTEM

P/N 043303

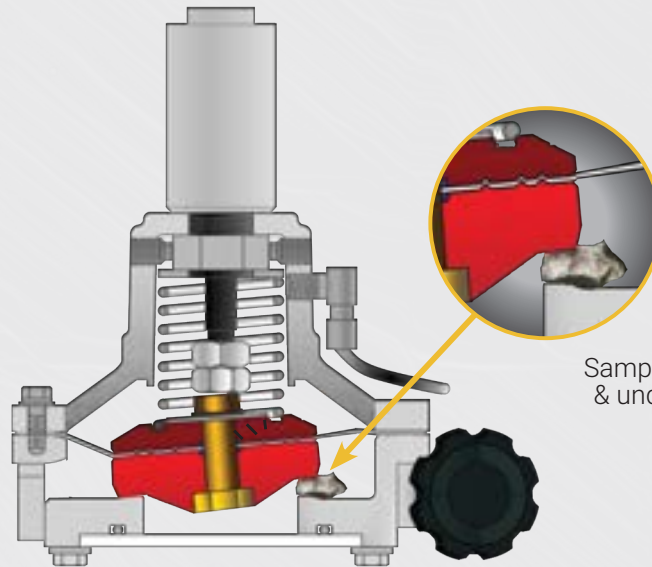
MEGA SPRAY HEAD FAQ SECTION

What does SHV and VSS mean?

SHV stands for "Spray Head Valve" and VSS means "Vertical Side Spray".

My spray pattern has a blank dry spot in it. What should I do to correct this?

Mega spray heads have an adjustable ring that changes the flow rates and direction of the spray. Use this adjusting ring to control the intensity and geometry of your spray pattern. If that does not work, check the spray head assembly for debris and damage to the guide disc or lower housing. Contact Mega Product Support at 505.345.2661 for assistance and more information.



Sample of debris caught inside & under the drop-in assembly of SHV.

Can I still order the Pneumatic 2 inch spray heads?

The Mega pneumatic 2 inch SHV's have been discontinued. Mega offers an aluminum pneumatic 3 inch SHV for pneumatic systems part number 300198. If a two inch valve is required for your implementation our Mega Parts Sales team can assist in locating the appropriate parts. You can reach Parts Sales at 505.345.2661.

Does Mega offer technical assistance?

Yes. Mega offers both on-site operator training and technical assistance. For additional information, contact the Mega Product Support Team. We also provide training videos on our website.

We purchased a water tank without vertical side spray heads. Can they be added?

Yes, Current Mega water tanks can be upgraded to control more spray heads and butterfly valves. Contact the Mega Product Support Team to determine compatibility. Please make sure to have your tank serial number available when contacting Mega.

Do you offer a full stainless steel spray head?

Yes. Our complete stainless steel spray heads (part number 047062) are best suited to resist corrosion and abrasion caused by the harsh waters often found in mining and construction environments. Stainless steel's durability, low maintenance, and resistance to corrosion make Mega stainless steel spray heads the ideal solution for demanding environments. You can order stainless steel spray head valves online on our website at www.megacorpinc.com or by calling Parts Sales.

Thank You

For Your Business

THERE'S WORK TO BE DONE



EQUIPMENT 

PARTS 

SUPPORT 

700 Osuna Rd. NE

Albuquerque, NM 87113

www.megacorpinc.com

#GENUINEMEGA

www.megacorpinc.com



Edited 06-2024 Sourcebook-SHV
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THERE'S WORK TO BE DONE



MEGA WATER PUMPS

No pump, no spray. It's that simple. Mega water pumps are not off-the-shelf irrigation pumps designed to run sprinklers; they are the product of over 45 years of experience and constant improvement.

We know what works best, and we are continuing to develop our water pumps for the varied demands of heavy equipment use.



GENUINE MEGA



MEGA WATER PUMP

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M4B Corrosion Resistant, CW
306201

WHEN YOU LOOK AT A GENUINE MEGA WATER PUMP YOU'LL SEE HEAVY DUTY.

The American-made Mega M series pumps are designed specifically for heavy equipment use. We have pumps designed for almost any water truck application, whether it's a 2,000 gallon on-highway tank or the largest tanks made on rigid frame trucks. Our pumps are made to provide the industry's best performance in the harshest conditions known.

All Mega M series pumps provide for direct drive motor mounting to eliminate coupling alignment failures and to provide the strongest, longest-lived motor-to-pump connection. If corrosive water is a problem, the Mega M4B corrosion resistant pump is the answer. All Mega M series pumps feature heavy dual bearings and heavy stress-proof shafts to withstand the shock loads of sudden start and stop water hammering that water tankers dish out.

M4B MEGA WATER PUMP



**M4B Standard, CW
306200**

**M4B Standard
Mechanical Seal, CW
306670**



**M4B Corrosion Resistant, CW
306201**

**M4B Corrosion Resistant, CW
Mechanical Seal
306671**



**M4 Complete Stainless Steel, CW
306647**

The M4 series is a clockwise-rotation centrifugal pump with a 6 inch inlet, 4 inch outlet, and maximum speed of 2,400 RPM. Inlet and outlet connections are flanged to provide a solid, leak-proof mount to the tank plumbing. The heavy-duty stress-relieved cast iron frame and volute case provide solid mounting to the tank and more than 1,300 gpm flow (up to 140 psi max).

The enclosed drive motor mount reduces the potential for contamination of the coupling housing, and the threaded shaft-to-impeller connection allows for easier maintenance and increased durability under abrupt start/stop water hammering conditions. Additionally, the M4 series pump does not need to be removed from the tank for rope packing replacement, making service quick and simple. For all of these reasons and more, the M4 series is Mega's most robust and operator-friendly water pump to date.

- > Rope-packing shaft seal
- > Corrosion-resistant stainless steel, pressure balance impeller (improves rope seal and bearing life)
- > Vented frame cavity (prevents damage from over-greasing and allows the use of an auto lubrication system)
- > Engineered high-performance drive end bearing & roller impeller bearing
- > Floating impeller-end bearing
- > SAE 'C' fit four bolt direct motor mount
- > Splined input shaft to splined drive motor coupling (allows for minor amounts of misalignment with reduced motor wear)
- > Threaded shaft-to-impeller connection (for ease of maintenance and increased durability under start/stop and water hammer conditions)

The M4 series water pumps are available in both standard cast iron and corrosion resistant forms (look under optional features for corrosion options). As with all of our water pumps, the M4 series comes with complete replacement parts and Mega's product and technical support.

HAVE CORROSIVE WATER?

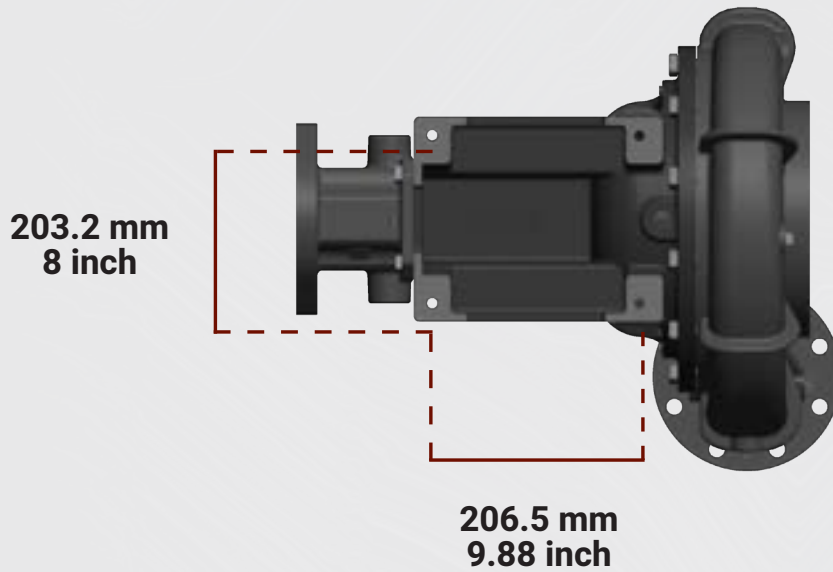
GET A MEGA STAINLESS STEEL M4 WATER PUMP

- > **100% stainless steel**
- > **Perfect for the most corrosive environments**
- > **Clockwise centrifugal pump**
- > **Rope packing and mechanical seals**

M4B Basic Dimensions

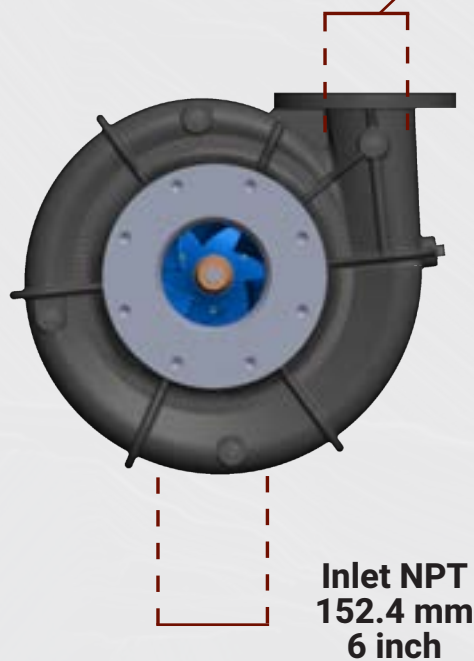
Please contact Parts Sales at 1.800.345.8889
for more dimensional information on our M4B water pump.

Footprint/ Bottom



Volute View

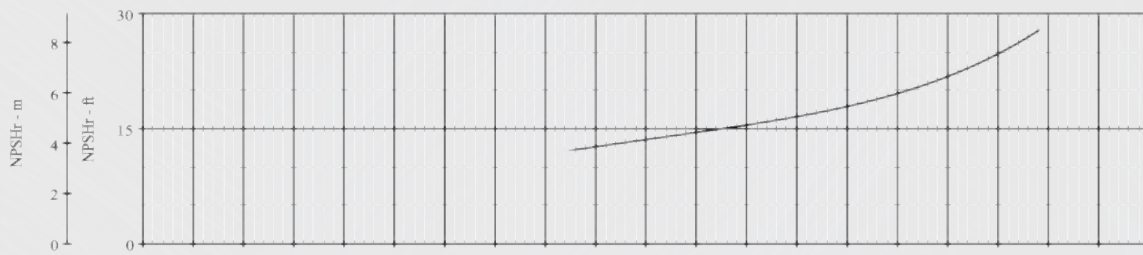
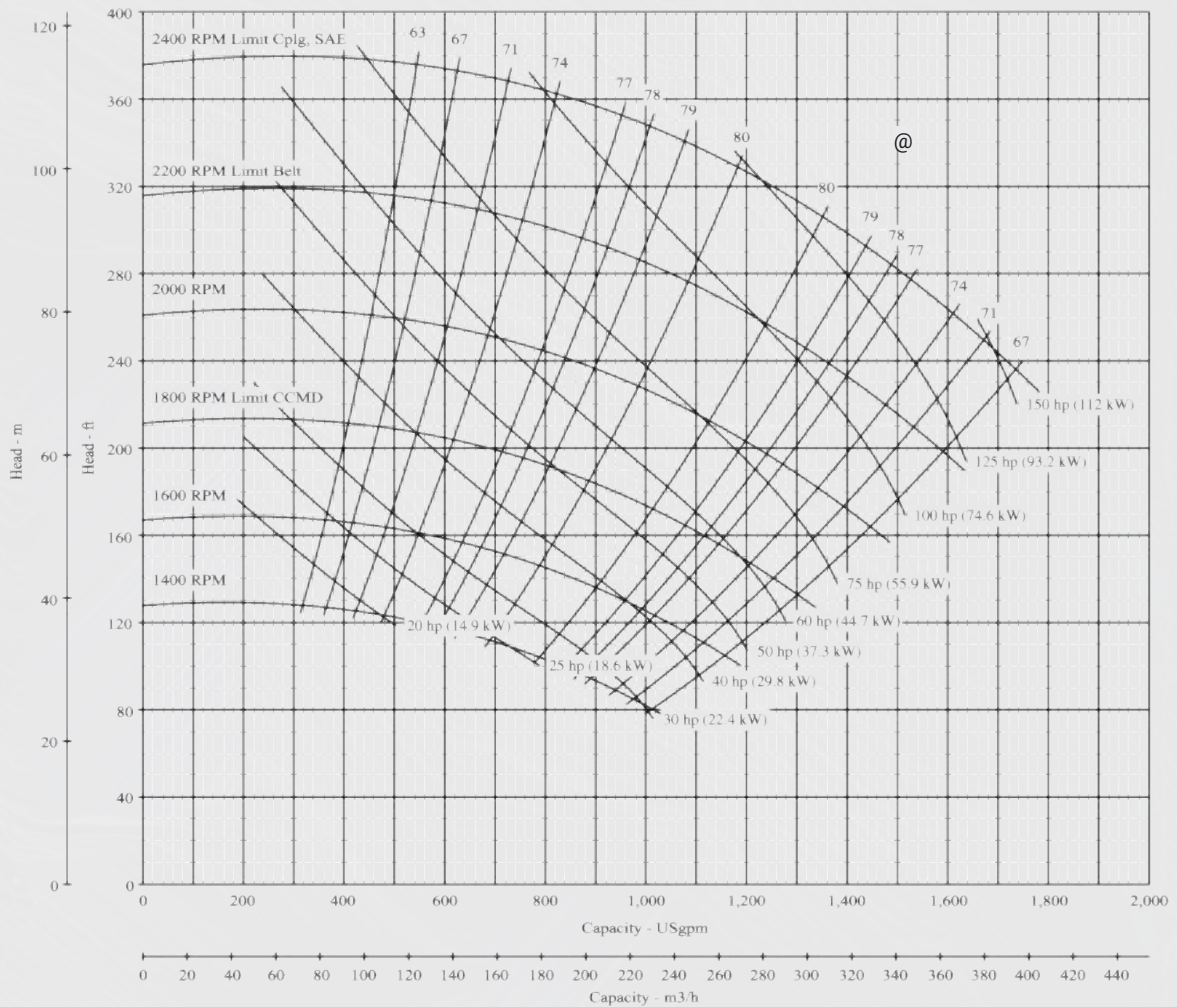
Outlet
101.6 mm
4 inch



M4B Performance Curve

Dia. 13.50"

Nominal RPM: **VARIOUS**
 Based on Fresh Water @ 68°F (20°C)
 Maximum Working Pressure: 266 PSI (18 BAR)



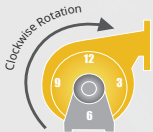
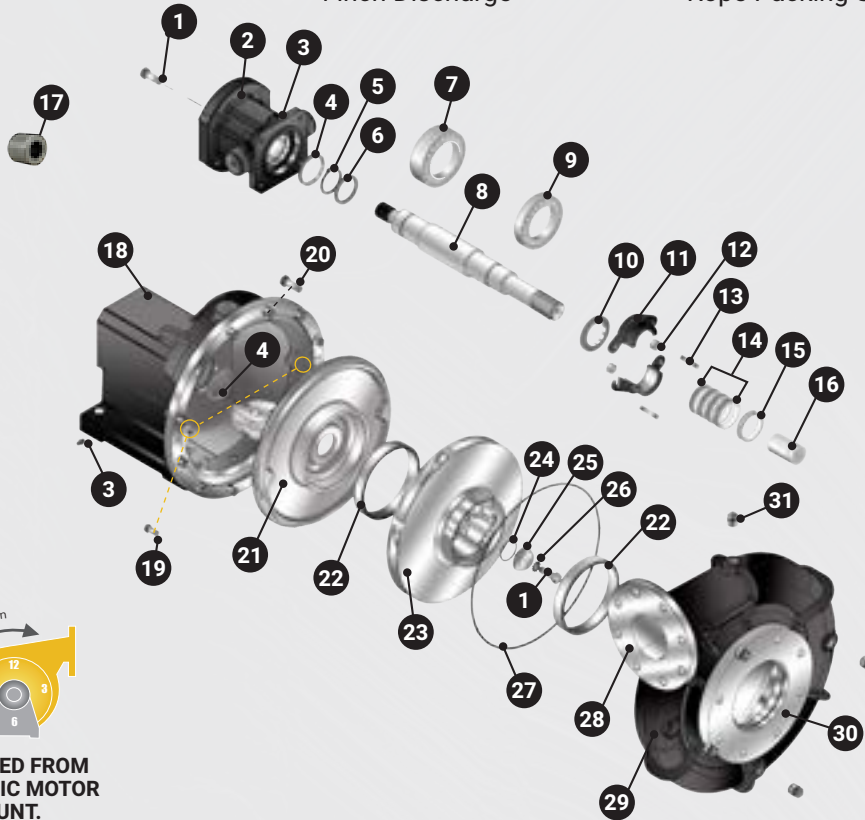
*NPSH data shown is at maximum speed

MEGA Standard M4B Rope Seal Water Pump, CW

Part No. 306200

Mega cast iron frame (bracket) and packing mount. Stress-proof carbon steel shaft.

- Clockwise Rotation
- 6 inch Inlet
- 4 inch Discharge
- Rope Packing Seal



AS VIEWED FROM
HYDRAULIC MOTOR
MOUNT.

32 CASING KIT-306795
INCLUDES PARTS: 20,27,29



33 ROPE PACKING KIT-300719
INCLUDES PARTS: 14,15



34 IMPELLER KIT-306664
INCLUDES PARTS: 1,20,22-27



35 SHAFT KIT-306663
INCLUDES PARTS: 1,4-10,16, 24-27



ITEM	PART NO.	DESCRIPTION	QTY
	306200	M4B, CW, Rope Seal, Standard	
1	306720	Cap Screw, Hex HD 1/2-13NC X 1-1/2L 316SS*	5
2	306736	Bearing Cap Motor Bracket	1
3	306697	Grease Fitting, 5/16 inch	2
4	302302	Oil Seal, Impeller Side*	2
5	300536	Snap Ring Retainer *	1
6	300542	Thrust Ring*	1
7	302296	Drive Side Bearing*	1
8	306718	Splined Shaft , 20.15 inch*	1
9	302297	Impeller Side Bearing*	1
10	300541	Water Slinger*	1
11	300533	Slotted Split Gland	1
12	306734	Nut, Hex 1/2-13NC 304SS	2
13	306723	Stud, 1/2-13NC X 2-1/2L 316SS	2
14	306699	Packing Ring	4
15	306732	Metallic Ring	1
16	306735	Shaft Sleeve	1
17	301927	Spline Coupling, 1 1/4 inch †	1
18	306716	Frame Mount Bracket	1

ITEM	PART NO.	DESCRIPTION	QTY
19	306722	Capscrew, Hex 1/4-20 X 1.75 inch	2
20	306730	Capscrew, Hex HD 5/8 inch	12
21	307128	Seal Plate	1
22	306717	Wear Ring, Stainless Steel	2
23	306727	Impeller	1
24	306729	O-Ring*	1
25	306719	Impeller Washer, Stainless Steel*	1
26	306721	Washer, External Tooth, Stainless Steel*	1
27	306698	O-Ring, Volute*	1
28	012930	Outlet Flange Gasket, 4 inch	1
29	306798	Volute Case	1
30	302527	Inlet Flange Gasket, 6 inch	1
31	306724	Stainless Steel Pipe Plug	5
32	306795	Casing Kit	1
33	300719	Rope Packing Kit	1
34	306664	Impeller Kit	1
35	306663	Shaft Kit	1

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

† Replacement part only. Part sold separately and not included with the water pump.

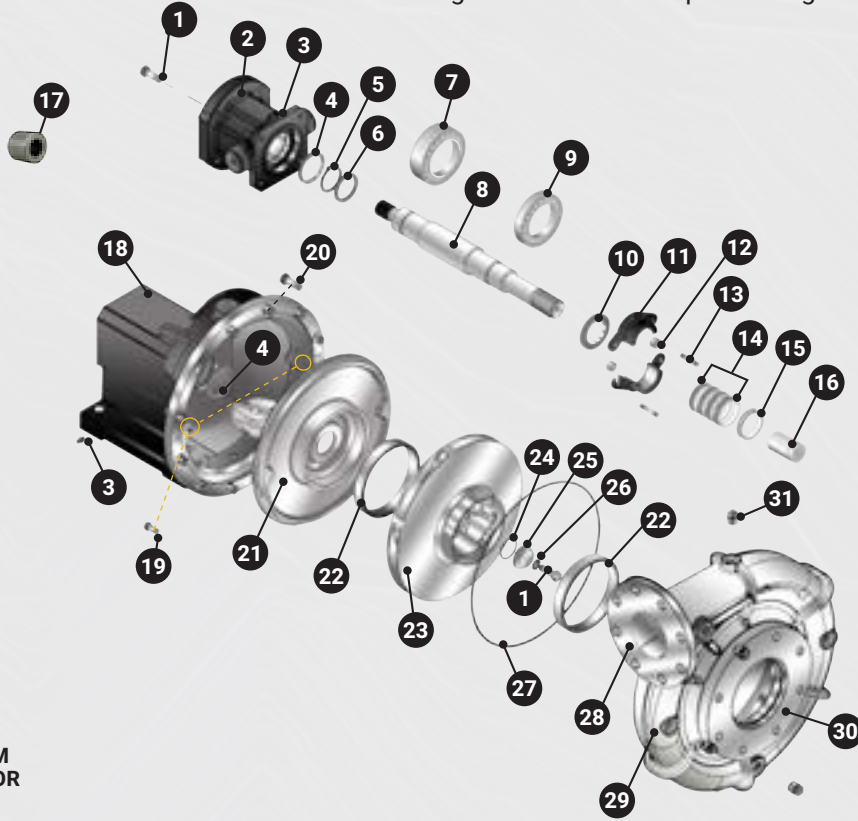
If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

MEGA Corrosion Resistant M4B Water Pump, Rope Seal, CW Part No. 306201

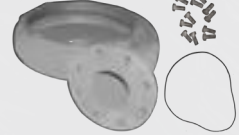


Mega cast iron frame (bracket) and stainless steel packing mount. Stress-proof carbon steel shaft.

- Clockwise Rotation
- 6 inch Inlet
- 4 inch Discharge
- Rope Packing Seal



32 CASING KIT-306665
INCLUDES PARTS: 20,27,29



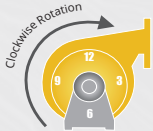
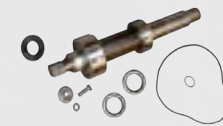
33 ROPE PACKING KIT-300719
INCLUDES PARTS: 14,15



34 IMPELLER KIT-306664
INCLUDES PARTS: 1,20,22-27



35 SHAFT KIT-306663
INCLUDES PARTS: 1,4-10,16, 24-27



AS VIEWED FROM
HYDRAULIC MOTOR
MOUNT.

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	306201	M4B, CW, Rope Seal, Corrosion Resistant					
1	306720	Cap Screw, Hex HD 1/2-13NC X 1-1/2L 316SS*	5	19	306722	Capscrew, Hex 1/4-20 X 1.75 inch	2
2	306736	Bearing Cap Motor Bracket	1	20	306730	Capscrew, Hex HD 5/8 inch	12
3	306697	Grease Fitting, 5/16 inch	2	21	306726	Seal Plate, Stainless Steel	1
4	302302	Oil Seal, Impeller Side*	2	22	306717	Wear Ring, Stainless Steel	2
5	300536	Snap Ring Retainer *	1	23	306727	Impeller	1
6	300542	Thrust Ring*	1	24	306729	O-Ring*	1
7	302296	Drive Side Bearing*	1	25	306719	Impeller Washer, Stainless Steel*	1
8	306718	Splined Shaft, 20.15 inch*	1	26	306721	Washer, External Tooth, Stainless Steel*	1
9	302297	Impeller Side Bearing*	1	27	306698	O-Ring, Volute*	1
10	300541	Water Slinger*	1	28	012930	Outlet Flange Gasket, 4 inch	1
11	300533	Slotted Split Gland	1	29	306728	Volute Case With Wear Ring, Stainless Steel	1
12	306734	Nut, Hex 1/2-13NC 304SS	2	30	302527	Inlet Flange Gasket, 6 inch	1
13	306723	Stud, 1/2-13NC X 2-1/2L 316SS	2	31	306724	Stainless Steel Pipe Plug	5
14	306699	Packing Ring	4	32	306665	Casing Kit	1
15	306732	Metallic Ring	1	33	300719	Rope Packing Kit	1
16	306735	Shaft Sleeve	1	34	306664	Impeller Kit	1
17	301927	Spline Coupling, 1 1/4 inch †	1	35	306663	Shaft Kit	1
18	306716	Frame Mount Bracket	1				

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

† Replacement part only. Part sold separately and not included with the water pump.

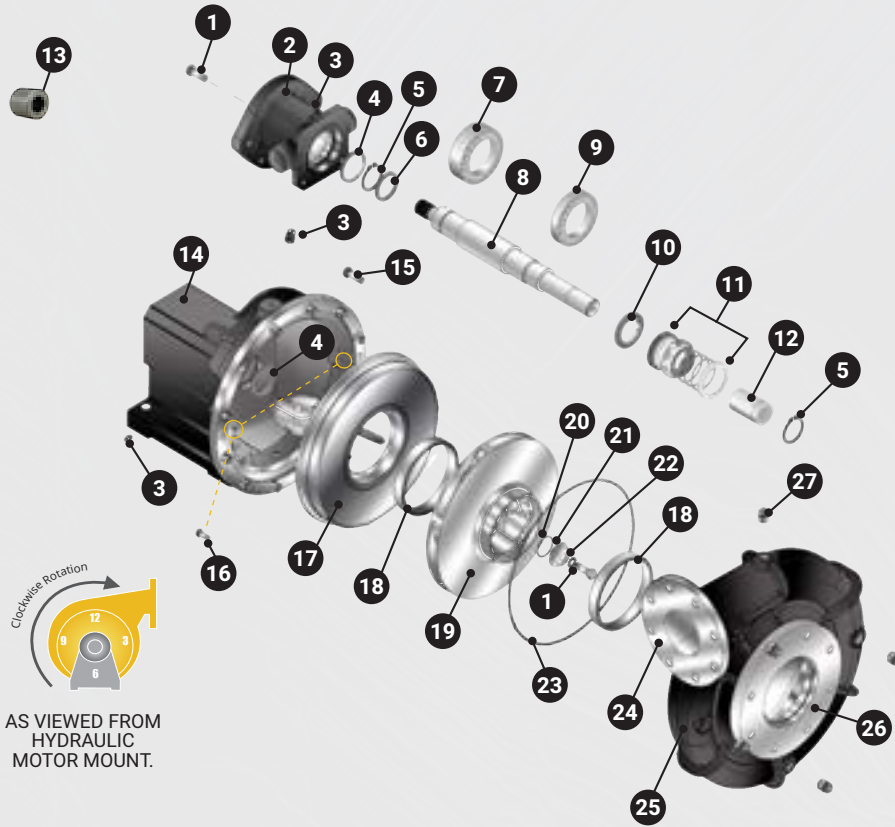
If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

MEGA Mechanical Seal M4B Water Pump, CW

Part No. 306670

Mega cast iron frame (bracket) and stainless steel packing mount. Stress-proof carbon steel shaft.

- Clockwise Rotation
- 4 inch Discharge
- 6 inch Inlet
- Mechanical Shaft Seal



28 CASING KIT-306795
INCLUDES PARTS: 15,23,25



29 IMPELLER KIT-306664
INCLUDES PARTS: 1,15, 18-23



30 SHAFT KIT-306663
INCLUDES PARTS: 1,4-10,12, 20- 23



AS VIEWED FROM
HYDRAULIC
MOTOR MOUNT.

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	306670	M4B, CW, Mechanical Seal		16	306722	Capscrew, Hex 1/4-20 X 1.75 inch	2
1	306720	Capscrew, Hex HD 1/2-13NC X 1-1/2L 316SS*	5	17	307127	Seal Plate	1
2	306736	Bearing Cap Motor Bracket	1	18	306717	Wear Ring, Stainless Steel	2
3	306697	Grease Fitting, 5/16 inch	2	19	306727	Impeller	1
4	302302	Oil Seal, Impeller Side*	2	20	306729	O-Ring*	1
5	300536	Snap Ring Retainer *	1	21	306719	Impeller Washer, Stainless Steel*	1
6	300542	Thrust Ring*	1	22	306721	Washer, External Tooth, Stainless Steel*	1
7	302296	Drive Side Bearing*	1	23	306698	O-Ring, Volute*	1
8	306718	Splined Shaft , 20.15 inch*	1	24	012930	Gasket, Outlet Flange, 4 inch	1
9	302297	Impeller Side Bearing*	1	25	306798	Volute Case With Wear Ring	1
10	300541	Water Slinger*	1	26	302527	Inlet Flange Gasket, 6 inch	1
11	302299	Seal, Mechanical Shaft	1	27	306724	Stainless Steel Pipe Plug	5
12	306735	Shaft Sleeve*	1	28	306795	Casing Kit	1
13	301927	Spline Coupling, 1 1/4 inch	1	29	306664	Impeller Kit	1
14	306716	Frame Mount Bracket	1	30	306663	Shaft Kit	1
15	306730	Capscrew, Hex HD 5/8 inch	12				

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

† Replacement part only. Part sold separately and not included with the water pump.

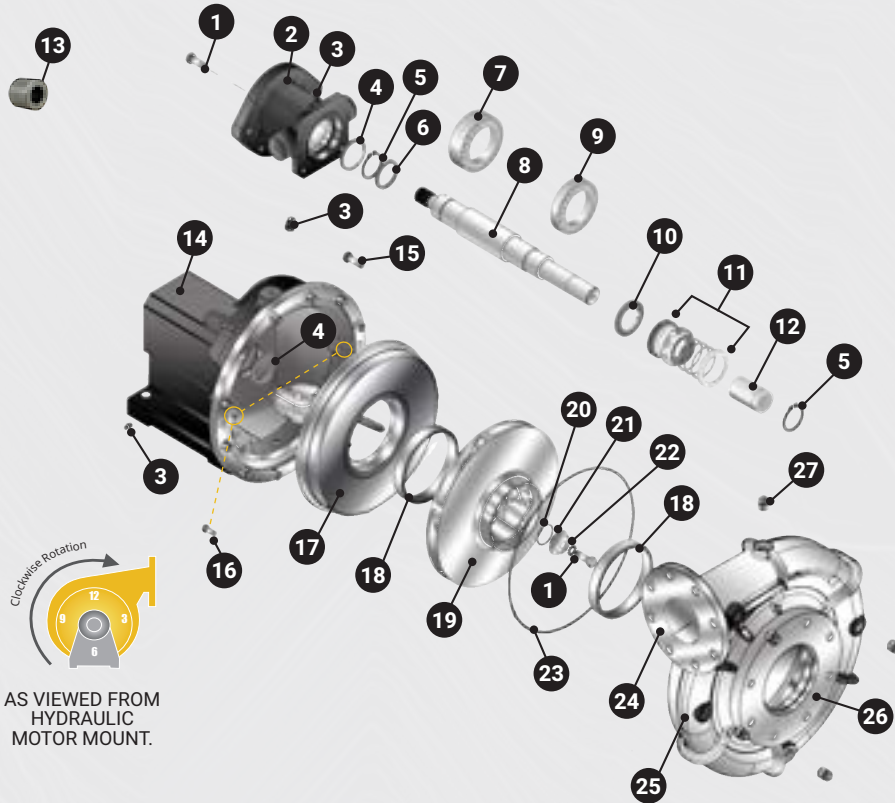
If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

MEGA Corrosion Resistant Mechanical Seal M4B Water Pump, CW

Part No. 306671

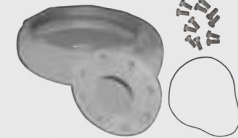
Mega cast iron frame (bracket) and stainless steel packing mount. Stress-proof carbon steel shaft.

- Clockwise Rotation
- 4 inch Discharge
- 6 inch Inlet
- Mechanical Shaft Seal



AS VIEWED FROM
HYDRAULIC
MOTOR MOUNT.

28 CASING KIT-306665
INCLUDES PARTS: 15,23,25



29 IMPELLER KIT-306664
INCLUDES PARTS: 1,15, 18-23



30 SHAFT KIT-306663
INCLUDES PARTS: 1,4-10,12, 20- 23



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	306671	M4B, CW, Mechanical Seal		16	306722	Capscrew, Hex 1/4-20 X 1.75 inch	2
1	306720	Capscrew, Hex HD 1/2-13NC X 1-1/2L 316SS*	5	17	306725	Seal Plate, Stainless Steel	1
2	306736	Bearing Cap Motor Bracket	1	18	306717	Wear Ring, Stainless Steel	2
3	306697	Grease Fitting, 5/16 inch	2	19	306727	Impeller	1
4	302302	Oil Seal, Impeller Side*	2	20	306729	O-Ring*	1
5	300536	Snap Ring Retainer *	1	21	306719	Impeller Washer, Stainless Steel*	1
6	300542	Thrust Ring*	1	22	306721	Washer, External Tooth, Stainless Steel*	1
7	302296	Drive Side Bearing*	1	23	306698	O-Ring, Volute*	1
8	306718	Splined Shaft , 20.15 inch*	1	24	012930	Gasket, Outlet Flange, 4 inch	1
9	302297	Impeller Side Bearing*	1	25	306798	Volute Case With Wear Ring	1
10	300541	Water Slinger*	1	26	302527	Inlet Flange Gasket, 6 inch	1
11	302299	Seal, Mechanical Shaft	1	27	306724	Stainless Steel Pipe Plug	5
12	306735	Shaft Sleeve*	1	28	306665	Casing Kit	1
13	301927	Spline Coupling, 1 1/4 inch	1	29	306664	Impeller Kit	1
14	306716	Frame Mount Bracket	1	30	306663	Shaft Kit	1
15	306730	Capscrew, Hex HD 5/8 inch	12				

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

† Replacement part only. Part sold separately and not included with the water pump.

If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

HAVE CORROSIVE WATER?

GET A MEGA

COMPLETE Stainless Steel M4 WATER PUMP

- 100% stainless steel

- Perfect for the most corrosive environments

- Clockwise centrifugal pump

- Rope packing seal



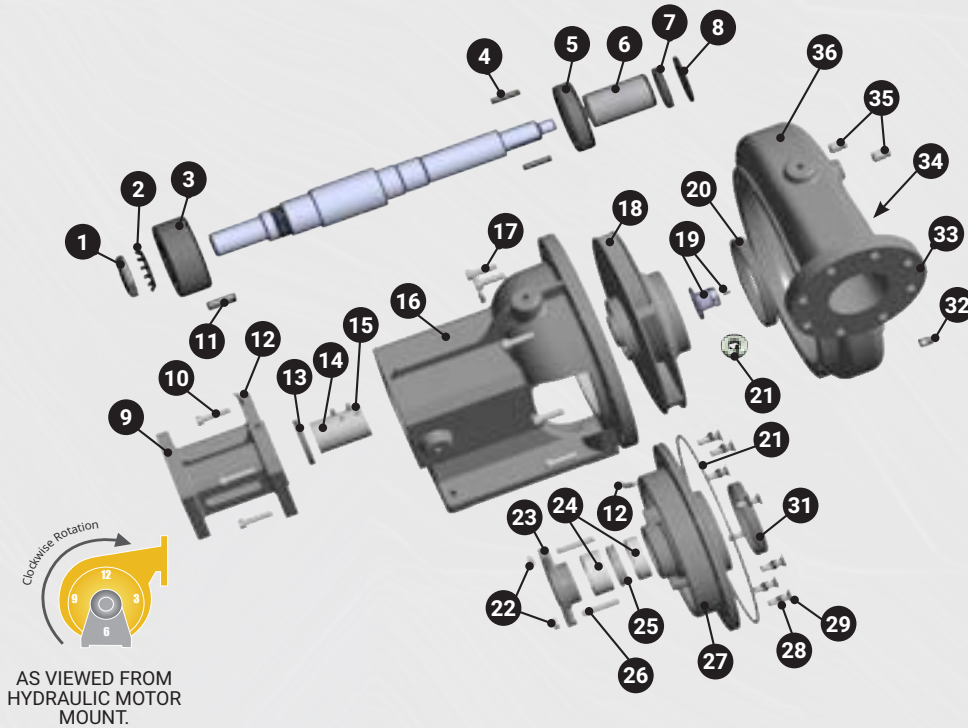
To order this complete stainless steel Mega M4 water pump, please call Parts Sales at 1.800.345.8889
or purchase online on our website at www.megacorpinc.com

MEGA M4 Complete Stainless Steel Water Pump, CW

Part No. 306647

Mega complete stainless steel which includes packing mount, shaft and 13 inch impeller.

- Clockwise Rotation
- 6 inch Inlet
- 4 inch Discharge
- Rope Packing Seal



37 ROPE PACKING KIT-305402
INCLUDES PARTS: 24,25



38 IMPELLER KIT-305404
INCLUDES PARTS: 4,18-20,30,31



39 SHAFT KIT-305405
INCLUDES PARTS: 1-8,11,
13-15,19,21,24,25,28-31



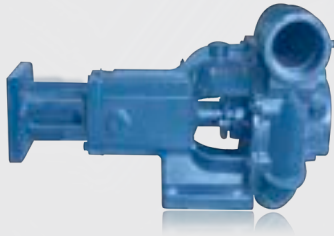
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	306647	M4, Water Pump, Complete Stainless Steel	1	22	305288	Nut, Packing Gland Flanged	2
1	305630	Nut, Drive Side, Shaft*	1	23	305098	Packing Gland (Pair)	1
2	305631	Washer, Tab, Bearing Retainer*	1	24	305114	Packing 3/8 inch, Set of 5 Rings*	1
3	305108	Drive Side Bearing*	1	25	305112	Lantern Ring*	1
4	305106	Impeller Key*	2	26	305105	Packing Gland Stud	2
5	304956	Impeller Side Bearing*	1	27	305118	Stainless Steel Packing Mount	1
6	305096	Wear Shaft Sleeve*	1	28	305626	Cap Screw Nytlite Seals*	8
7	304960	Grease Seal, Impeller Side*	1	29	305340	Packing Mount Bolt*	8
8	305100	Water Slinger*	1	30	305091	Wear Packing Ring Mount*	1
9	307064	Hydraulic Motor Mount	1	31	305111	Seal, O-Ring, Volute*	1
10	308841	Caps Screw, 3/8 inch X 2 inch GR 8, Motor Mount	4	32	300460	Petcock Drain 1/2 inch	1
11	305101	Key, Shaft Drive End*	1	33	012930	Outlet Gasket, 4 inch	1
12	304968	Grease Fitting, 1/8 inch, NPT	3	34	302527	Inlet Flange Gasket, 6 inch	1
13	305113	Grease Seal, Drive Side*	1	35	350852	Pipe Plug, 1/2 inch	3
14	305102	Motor to Pump Coupling*	1	36	305115	Stainless Steel Volute Case	1
15	305107	Set Screw, Coupling*	2	37	305402	Rope Packing Kit	1
16	307063	Bracket	1	38	305404	Impeller Kit	1
17	350232	Bolt, 1/2 inch X 1 3/4 inch GR 8, Volute Case	8	39	305405	Shaft Kit, Stainless Steel	1
18	305075	Impeller 13 inch Diameter, Stainless Steel	1				
19	305627	Nut Impeller*	1				
20	305092	Volute Wear Ring	1				
21	044583	Drill Guide, Impeller Nut*	1				

If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

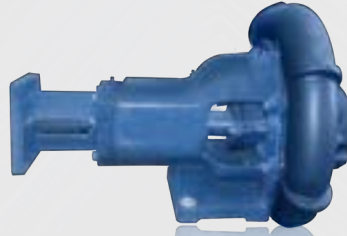
* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

† Replacement part only. Part sold separately and not included with the water pump.

M3 Mega Water Pump



**M3 Direct Motor Mount, CW
304954**



**M3 Direct Motor Mount, CCW
304985**

The Mega M3 water pump is a cost effective open centrifugal water pump suitable for water tanker applications where up to 3 spray heads will be operated simultaneously. The low horse-power draw of this pump is well-suited for on-highway type tankers as well as for small articulated tractor type water tankers where available space is limited.

Pump construction of high quality gray cast iron gives good durability and long life. The heavy duty Stress-proof 1.875 inch diameter shaft and heavy twin bearings allow the M3 Pump to operate on higher drive RPM units (optimal range of 2,350 ± 50 RPM, maximum capability of 3,000 RPM).

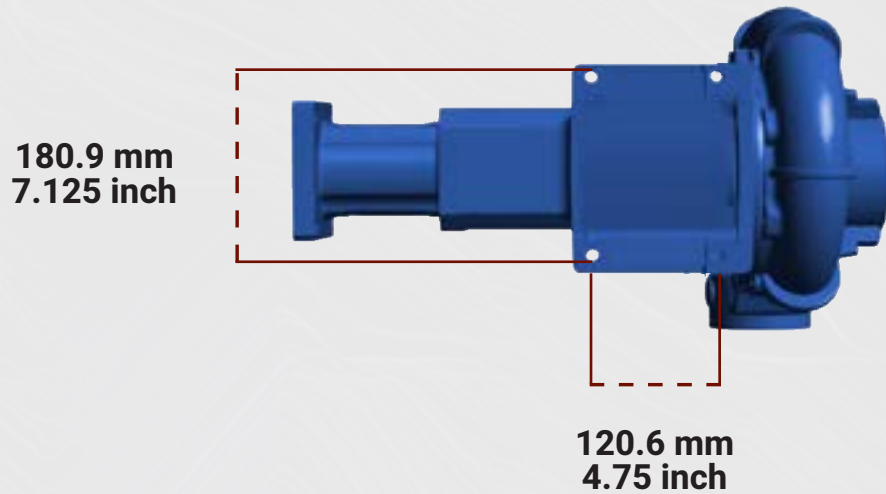
- › Equipped with a rope-packing seal.
- › Capable of over 800 gpm available flow, and over 80 psi available pressure.
- › Mega M3 series water pumps feature a 4 inch NPT threaded inlet and a 3 inch NPT threaded outlet.
- › Available in both clockwise and counterclockwise configuration.

The standard pump drive is configured for direct mount of a 'C' fit face hydraulic motor with splined shaft or with 'B' fit face direct motor mount. The pump can also be configured for plain-keyed shaft external coupling to a variety of drive motors.

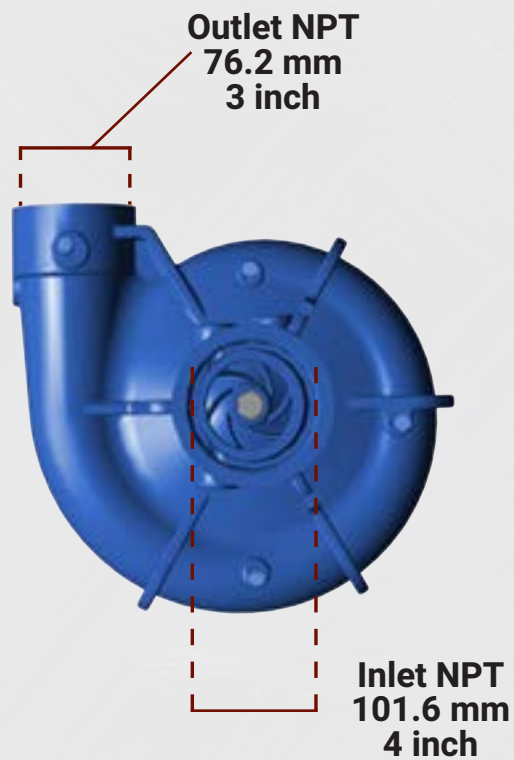
M3 Basic Dimensions

Please contact Parts Sales at 1.800.345.8889
for more dimensional information on our M3 water pump.

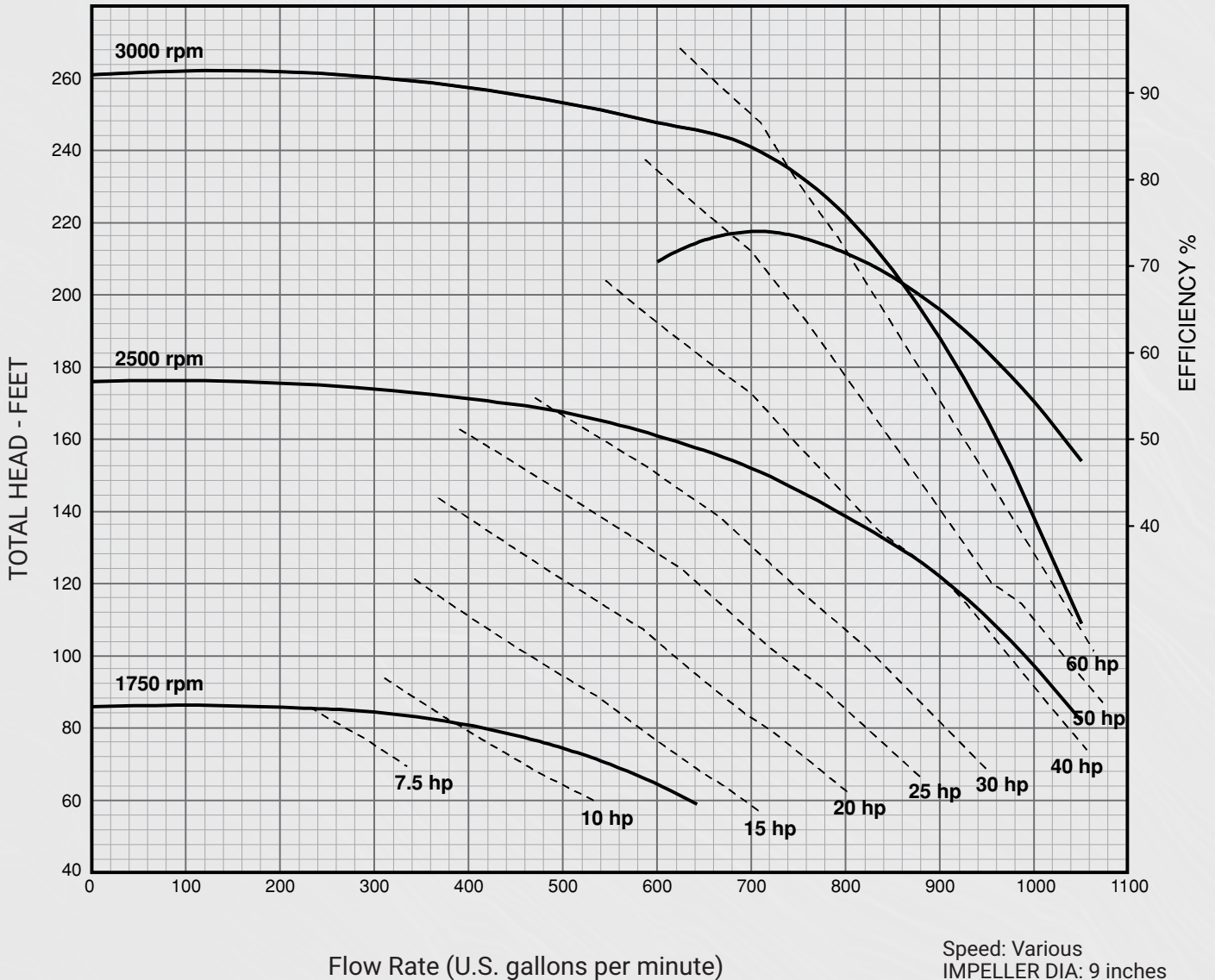
Footprint/ Bottom



Volute View



M3 Performance Curve

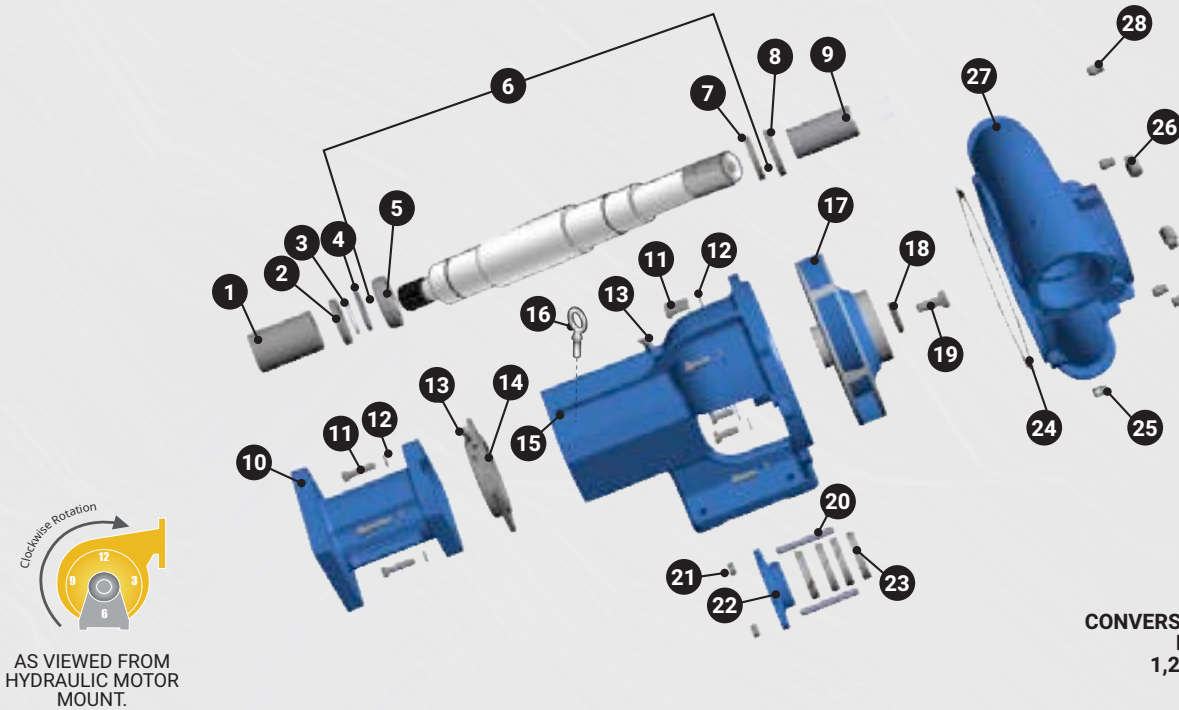


MEGA M3B C-Fit Direct Motor Mount Water Pump, CW

Part No. 310381

Mega cast iron M3B water pump configured for direct mount of "C" fit hydraulic motor.

- Clockwise Rotation
- 9 inch Impeller
- Splined Drive Shaft
- 4 inch NPT inlet
- 3 inch NPT outlet



CONVERSION M3 TO MB3 KIT-059278
INCLUDES PARTS:
1,2,6,8,14,16-19, 23, 24

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	310381	M3B C-Fit Direct Motor Mount Water Pump, CW					
1	301927	Spline Coupling	1	16	310387	Kit-Eyebolt 3/8-16 X 1.25	1
2	308176	Grease Seal	1	17	310384	Impeller CW	1
3	304957	Snap Ring Retainer	1	18	310385	Impeller Washer	1
4	304958	Thrust Ring	1	19	310386	Impeller Bolt	1
5	304956	Drive Side Bearing	1	20	304966	Packing Gland Stud	2
6	310383	Shaft Assembly With Bearings*	1	21	304757	Nut, Packing Gland, 3/8 inch-16	2
7	304959	Impeller Side Bearing	1	22	304969	Packing Gland (Pair)	1
8	304960	Grease Seal	1	23	304967	Rope Packing 3/8 inch, Set of 4 Rings	1
9	304961	Wear Shaft Sleeve	1	24	304973	Volute Gasket Seal	1
10	304981	Hydraulic Motor Mount, C-Fit	1	25	300460	Petcock Drain 1/2 inch	1
11	350146	Bolt, 3/8 inch-16 inch x 1 1/4 inch	12	26	350852	Pipe Plug, 1/2 inch	2
12	350016	Washer, 3/8 inch	1	27	304963	Volute Case, CW	1
13	304968	Grease Fitting, 1/8 inch	2	28	305473	Pipe Plug, 1/4 inch	4
14	304983	Bearing Cap	1				
15	304984	Bracket	1				

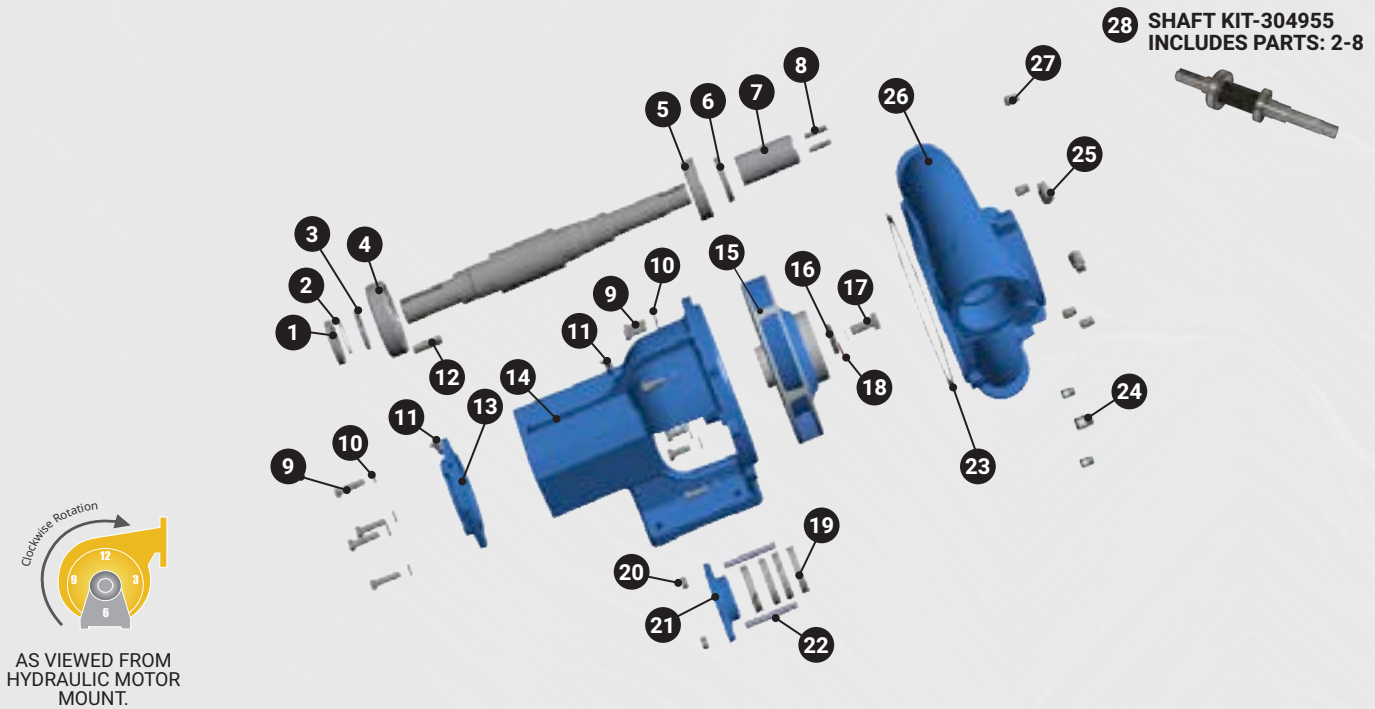
* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

Mega Plain Keyed 1.5 inch Diameter Shaft Water Pump, CW Part No. 304985

Mega M3 Water Pump configured for direct mount of "C" fit hydraulic motor.

- Counterclockwise Rotation
- 4 inch NPT inlet
- 3 inch NPT outlet
- 9 inch Impeller



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	304985	M3 Water Pump-CCW, Plain Keyed	1				
1	308176	Grease Seal	1	16	304970	Impeller Washer	1
2	304957	Snap Ring Retainer*	1	17	304972	Impeller Bolt	1
3	304958	Thrust Ring*	1	18	304971	Lock Impeller Washer	1
4	304956	Drive Side Bearing*	1	19	304967	Rope Packing 3/8 inch, Set of 4 Rings	1
5	304959	Impeller Side Bearing*	1	20	304757	Nut, Packing Gland, 3/8 inch-16	1
6	304960	Grease Seal*	1	21	304969	Packing Split Gland	2
7	304961	Wear Shaft Sleeve*	1	22	304966	Packing Gland Stud	1
8	304962	Impeller Key*	2	23	304973	Volute Gasket Seal	1
9	350146	Bolt, 3/8 inch-16 inch x 1 1/4 inch	12	24	300460	Petcock Drain 1/2 inch	2
10	350016	Washer, 3/8 inch	Package of 25	25	350852	Pipe Plug, 1/2 inch	4
11	304968	Grease Fitting, 1/8 inch	2	26	304963	Volute Case, CW	1
12	305101	Key, Coupling	1	27	305473	Pipe Plug, 1/4 inch	1
13	304983	Bearing Cap	1	28	304955	Shaft Kit Assembly*	1
14	304984	Bracket	1				
15	304975	Impeller, CCW					

* These parts are included in the shaft kit. The shaft and bearings are not sold separately and is only sold as a shaft kit.

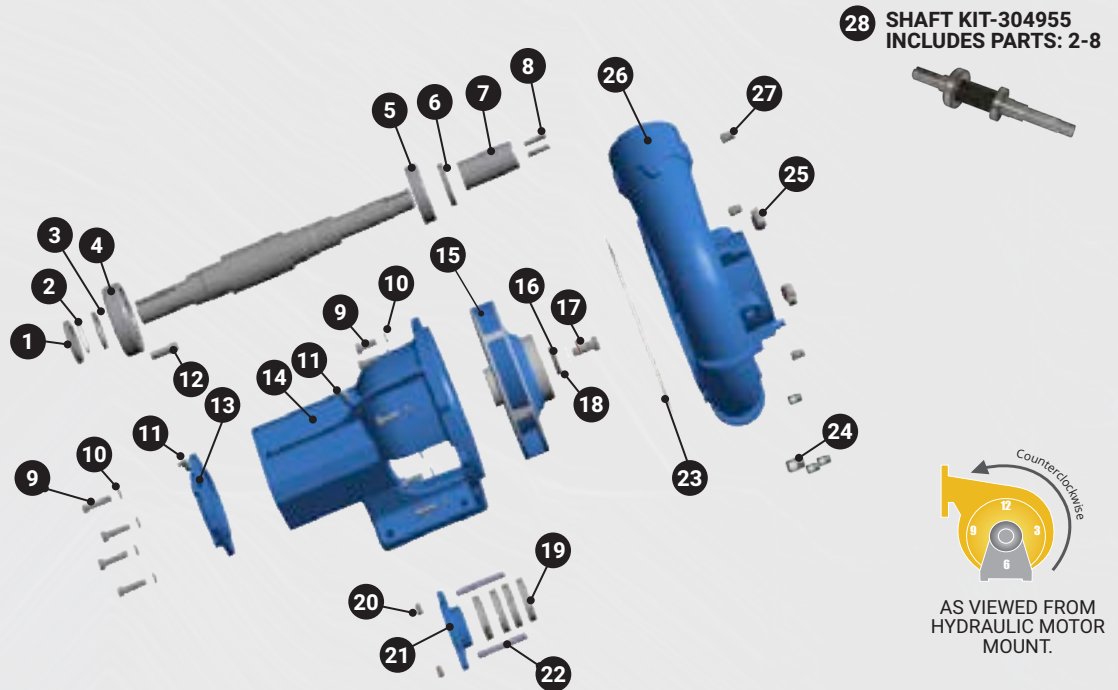
If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

Mega M3 Plain Keyed 1.5 inch Diameter Shaft Water Pump, CCW

Part No. 304977

Mega M3 Water Pump configured with plain input shaft, 1.5 inch, keyed.

- Clockwise Rotation
- 3 inch NPT outlet
- 4 inch NPT inlet
- 9 inch Impeller



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	304977	M3 Water Pump-CCW, Plain Keyed	1	16	304970	Impeller Washer	1
1	308176	Grease Seal	1	17	304972	Impeller Bolt	1
2	304957	Snap Ring Retainer *	1	18	304971	Lock Impeller Washer	1
3	304958	Thrust Ring*	1	19	304967	Rope Packing 3/8 inch, Set of 4 Rings	1
4	304956	Drive Side Bearing*	1	20	304757	Nut, Packing Gland, 3/8 inch-16	1
5	304959	Impeller Side Bearing*	1	21	304969	Packing Split Gland	2
6	304960	Grease Seal*	1	22	304966	Packing Gland Stud	1
7	304961	Wear Shaft Sleeve*	1	23	304973	Volute Gasket Seal	1
8	304962	Impeller Key*	2	24	300460	Petcock Drain 1/2 inch	2
9	350146	Bolt, 3/8 inch-16 inch x 1 1/4 inch	12	25	350852	Pipe Plug, 1/2 inch	4
10	350016	Washer, 3/8 inch	Package of 25	26	304974	Volute Case, CCW	1
11	304968	Grease Fitting, 1/8 inch	2	27	305473	Pipe Plug, 1/4 inch	1
12	305101	Key, Coupling	1	28	304955	Shaft Kit Assembly*	1
13	304983	Bearing Cap	1				
14	304984	Bracket	1				
15	304975	Impeller , CCW	12				

* These parts are included in the shaft kit. The shaft and bearings are not sold separately and is only sold as a shaft kit.

If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

MEGA PUMPS HAVE MANY USES

Open Centrifugal pumps are used for...

IRRIGATION/AGRICULTURE



FIRE SUPPRESSION



DUST SUPPRESSION



MEGA HAS THE WATER PUMP FOR YOU.

Call a Mega sales rep today for more information.

WE ALSO CARRY BERKELEY WATER PUMPS!

In addition to our own Mega water pumps, we also offer several widely-used Berkeley water pumps and pump parts for the convenience of customers with existing fleet Berkeley pumps and parts. These include the B4J, B3Z, B6Z, and B4Z water pumps.

Berkeley Water Pumps



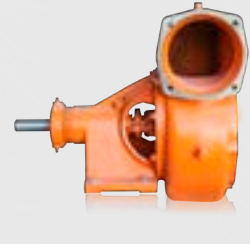
**B4J Splined Shaft, CW
304755**



**B3 Splined Shaft, CW
302001**



**B4Z Splined Shaft, CW
302430**



**B6Z Keyed Shaft, CW
300048**

B4J Water Pumps

The B4J water pump is widely-used and has a durable, proven design. Mega offers this water pump for the convenience of customers with existing fleet B4J parts commonality.

- Both plain keyed shaft and direct motor mount versions are available.
- Can be purchased with either a rope-packing seal or a mechanical seal.
- A trimmed impeller for low horsepower applications is available.

The B3 & B3Z Water Pumps

The Berkeley B3 and the B3Z frame water pump is likely the most commonly used water pump in the mobile water tank industry. Mega maintains a complete stock of replacement water pumps and repair parts. As a Berkeley dealer for over 30 years, we are well versed in all technical aspects of this and other Berkeley open centrifugal water pumps. Contact us today for more information.

B4Z Water Pumps

This clockwise-rotation water pump is self-priming and is used for the suction loading option on Mega's smaller water trucks. It is available in both plain-keyed shaft and direct motor mount versions.

B6Z Water Pumps

This inexpensive water pump is still commonly found in older machines. Mega offers this pump for the convenience of customers with existing B6Z stock parts. This pump is available in both direct motor mount and plain keyed shaft versions as well as either clockwise or counterclockwise configurations.

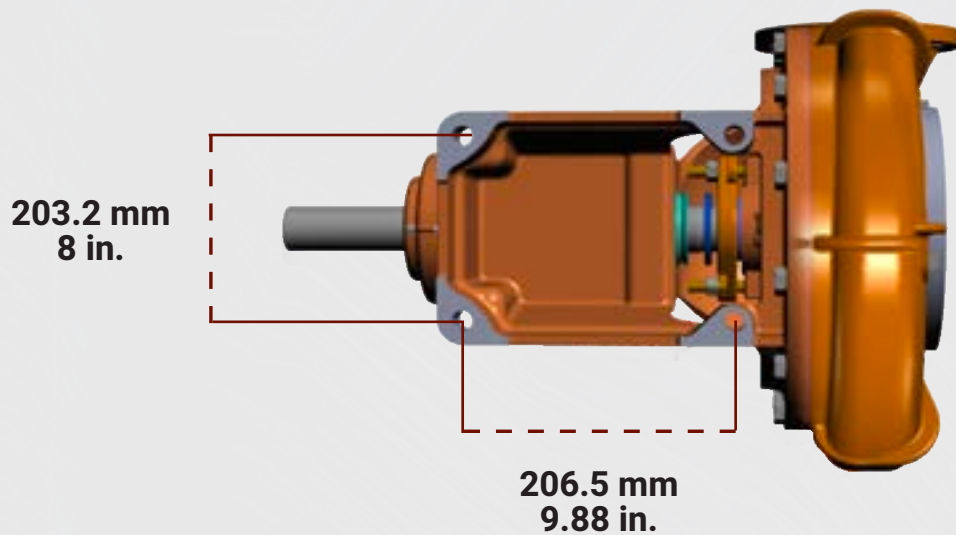
DON'T SEE THE BERKELEY PUMP YOU ARE LOOKING FOR?

Parts Sales would be happy to assist you! Give them a call @ 1.800.345.8889.

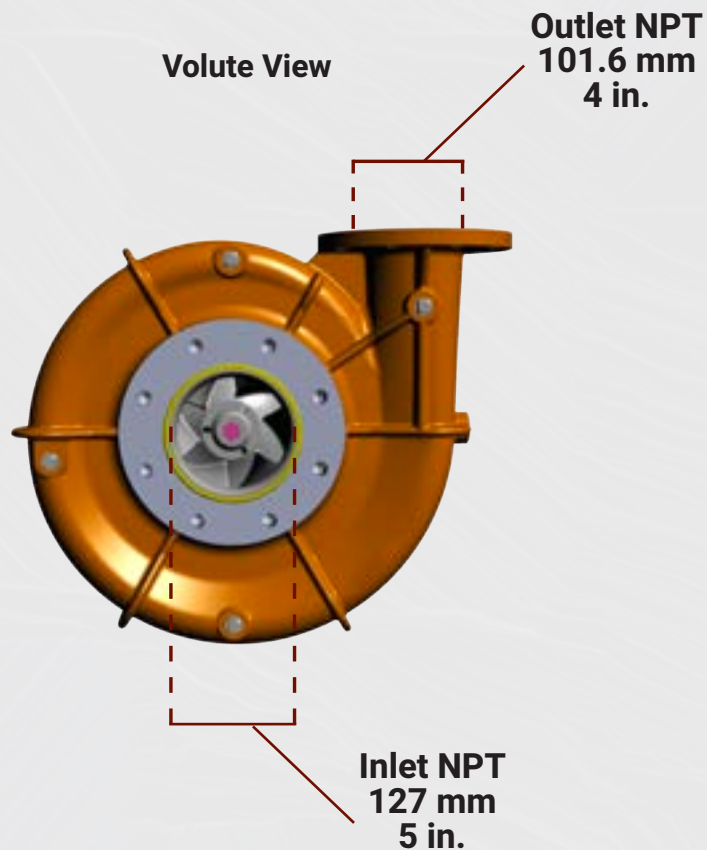
B4J Basic Dimensions

Please contact Parts Sales at 1.800.345.8889
for more dimensional information on our B4J water pump.

Footprint/ Bottom



Volute View

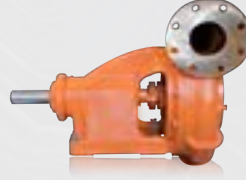


B4J Berkeley Pump Performance Curve



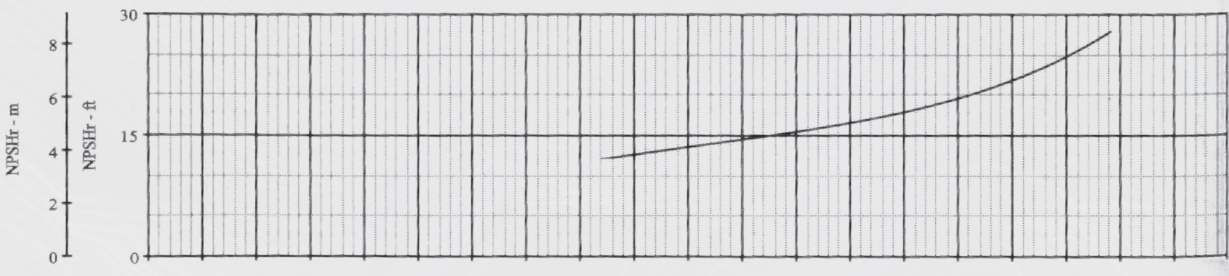
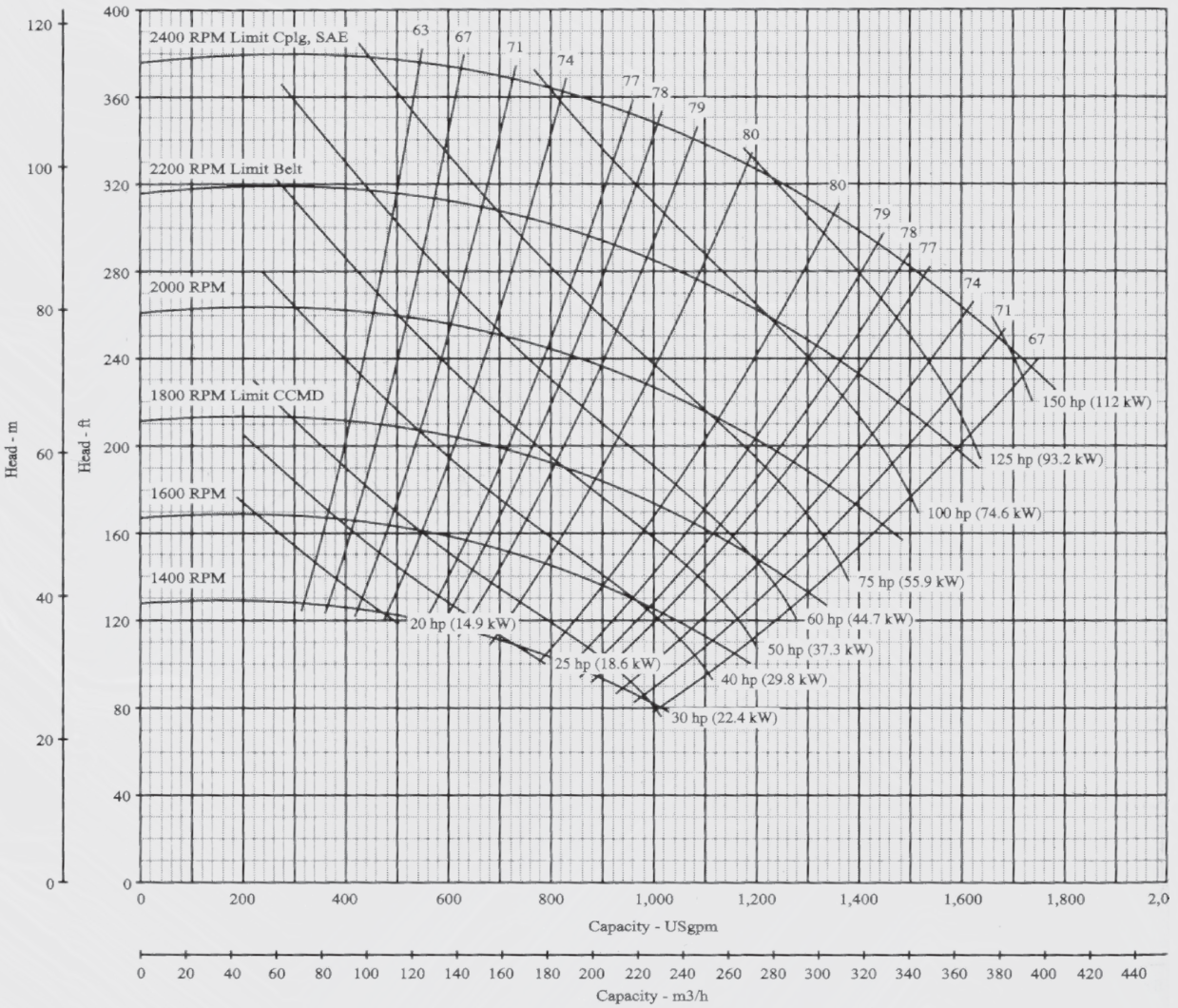
B4J Splined Shaft, CW
 Applies to the following B4J water pumps:
 304755, 305046, 301908, 304742

Dia. 13.50"



B4J Keyed Shaft, CW
 301104

Nominal RPM: **VARIOUS**
 Based on Fresh Water @ 68°F (20°C)
 Maximum Working Pressure: 266 PSI (18 BAR)

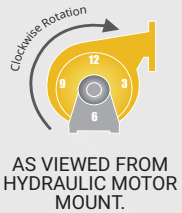
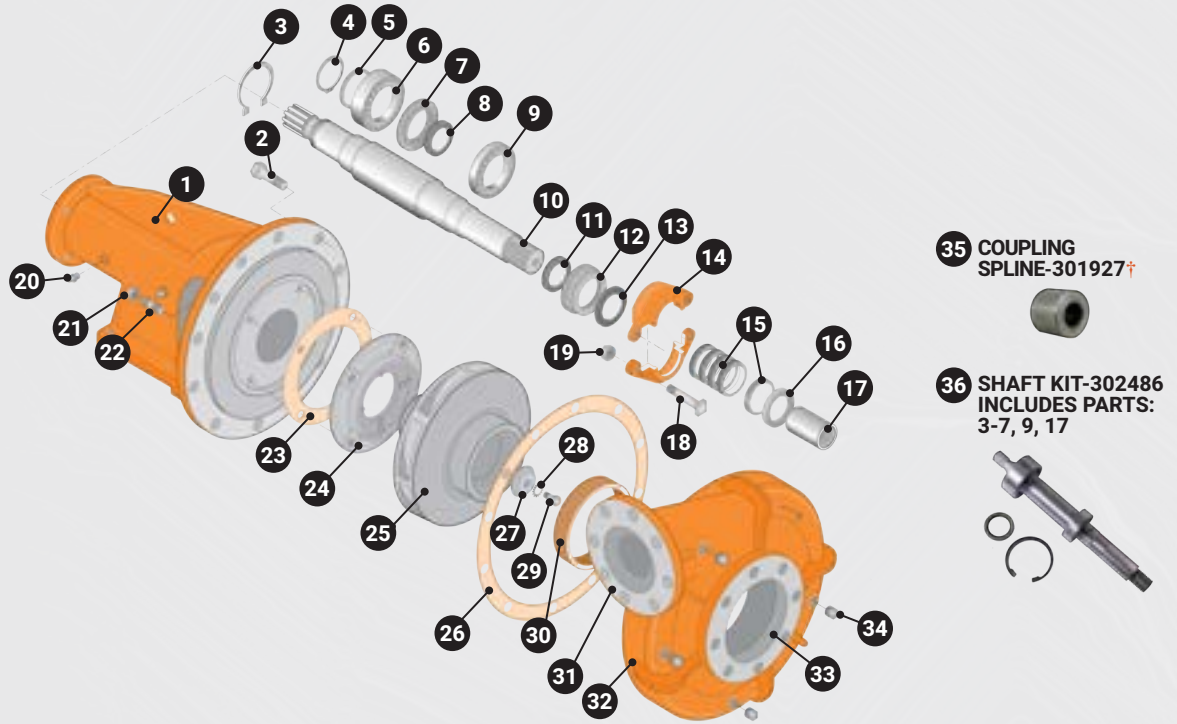


Berkeley B4J Splined Shaft Water Pump, CW

Part No. 304755

Berkeley standard high performance open centrifugal water pump. Rope packing shaft seal.

- Clockwise Rotation
- Inlet 5 inch Flange Mount
- Outlet 4 inch Flange Mount
- 13 inch Impeller



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	304755	Berkeley, B4J Water Pump-CW (Splined Shaft)	1	19	300363	Gland Nut	2
1	302292	Bracket	1	20	303812	Grease Fitting, 0.25 inch	2
2	350283	Bolt, 5/8 x 1 1/2 inch	12	21	350025	Nut, 3/8 inch	4
3	300536	Snap Ring Retainer*	1	22	302298	Stud, 3/8-16 X 1 3/8 inch	4
4	300524	Impeller Lock Washer*	1	23	300545	Gasket Balance Ring**	1
5	302301	Snap Ring Retainer*	1	24	301099	Balance Ring Gasket	1
6	302296	Drive Side Bearing*	1	25	301097	13 inch Impeller, Clockwise Rotation	1
7	302305	Bearing Cap, Drive Side*	1	26	300552	Volute Case Gasket**	1
8	302304	Motor Side Oil Seal	1	27	301103	Impeller Washer	1
9	302297	Impeller Side Bearing*	1	28	300551	Lock Impeller Washer	1
10	302293	Shaft, Clockwise Rotation*	1	29	300549	Impeller Bolt	1
11	302302	Oil Seal, Impeller Side**	1	30	301101	Wear Ring	1
12	302294	Bearing Cap, Impeller Side	1	31	012930	Outlet Gasket, 4 inch	1
13	300541	Water Slinger**	1	32	301098	Volute Case, CW	1
14	300533	Split Gland	1	33	012929	Inlet Gasket, 5 inch	1
15	300719	Rope Packing**	1	34	350852	Pipe Plug, 1/2 inch	4
16	300540	Throat Bushing	1	35	301927	Spline Coupling, 1 1/4 inch†	1
17	300535	Wear Shaft Sleeve*	1	36	302486	Shaft Kit	1
18	354187	Bolt, Gland	2				

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

** Gasket and seals required for pump rebuild assembly.

† Replacement parts only. Parts sold separately and not included with the water pump.

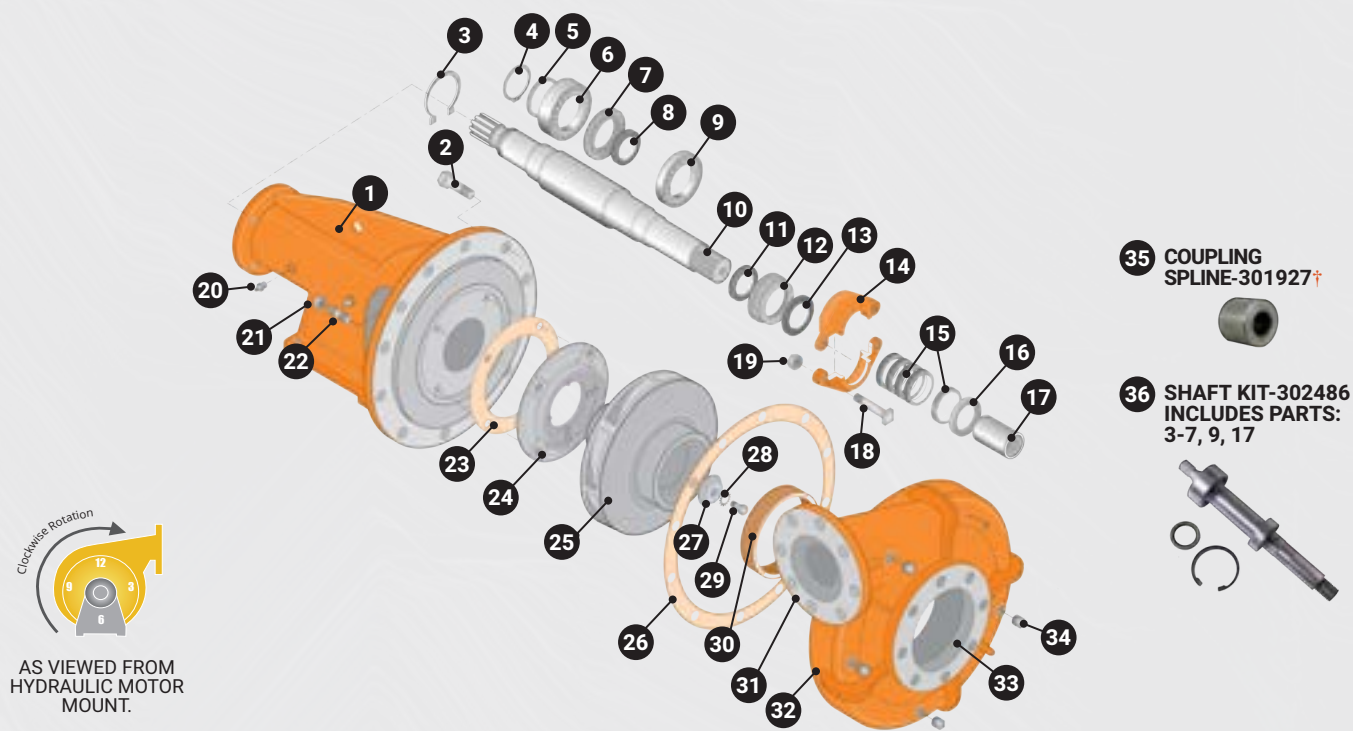
If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

Berkeley B4J Trimmed Impeller Water Pump, CW

Part No. 305046

Berkeley standard high performance open centrifugal water pump. Rope packing shaft seal.

- Clockwise Rotation
- Inlet 5 inch Flange Mount
- Outlet 4 inch Flange Mount
- 12 inch Impeller



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	305046	Berkeley, B4J Water Pump-CW (Splined Shaft)	1	19	300363	Gland Nut	2
1	302292	Bracket	1	20	303812	Grease Fitting, 0.25 inch	2
2	350283	Bolt, 5/8 x 1 1/2 inch	12	21	350025	Nut, 3/8 inch	4
3	300536	Snap Ring Retainer *	1	22	302298	Stud, 3/8-16 X 1 3/8 inch	4
4	300524	Impeller Lock Washer*	1	23	300545	Gasket, Balance Ring**	1
5	302301	Snap Ring Retainer *	1	24	301099	Balance Ring	1
6	302296	Drive Side Bearing*	1	25	034451	12 inch Impeller, Clockwise	1
7	302305	Bearing Cap, Drive Side*	1	26	300552	Volute Case Gasket**	1
8	302304	Motor Side Oil Seal	1	27	301103	Impeller Washer	1
9	302297	Impeller Side Bearing*	1	28	300551	Lock Impeller Washer	1
10	302293	Shaft, Clockwise Rotation*	1	29	300549	Impeller Bolt	1
11	302302	Oil Seal, Impeller Side**	1	30	301101	Wear Ring	1
12	302294	Bearing Cap, Impeller Side	1	31	012930	Outlet Gasket, 4 inch	1
13	300541	Water Slinger	1	32	301098	Volute Case, CW	1
14	300533	Split Gland	1	33	012929	Inlet Gasket, 5 inch	1
15	300719	Rope Packing**	1	34	350852	Pipe Plug, 1/2 inch	4
16	300540	Throat Bushing	1	35	301927	Coupling Spline†	1
17	300535	Wear Shaft Sleeve*	1	36	302486	Shaft Kit	1
18	354187	Bold, Gland	2				

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

** Gasket and seals required for pump rebuild assembly.

† Replacement parts only. Parts sold separately and not included with the water pump.

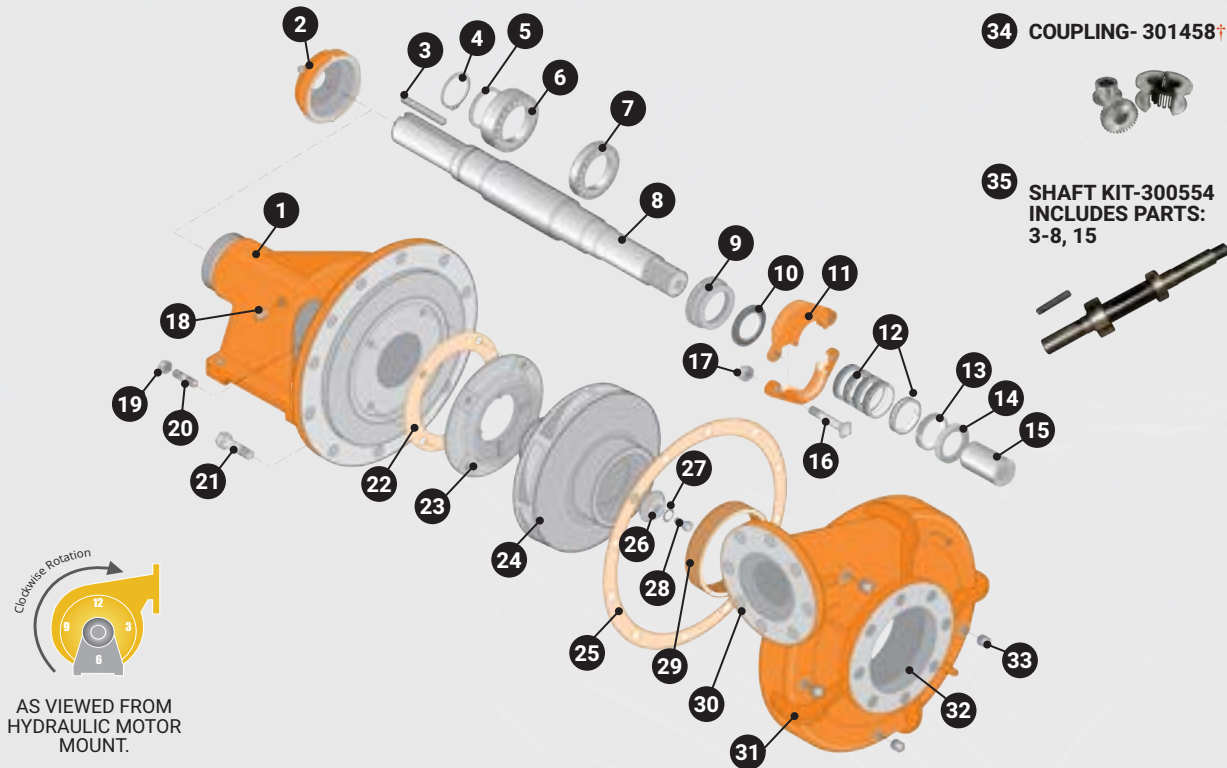
If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

Berkeley B4J Keyed Shaft Water Pump, CW

Part No. 301104

Berkeley standard high performance open centrifugal water pump. Rope packing shaft seal.

- Clockwise Rotation
- Inlet 5 inch Flange Mount
- Outlet 4 inch Flange Mount
- 13 inch Impeller



AS VIEWED FROM
HYDRAULIC MOTOR
MOUNT.

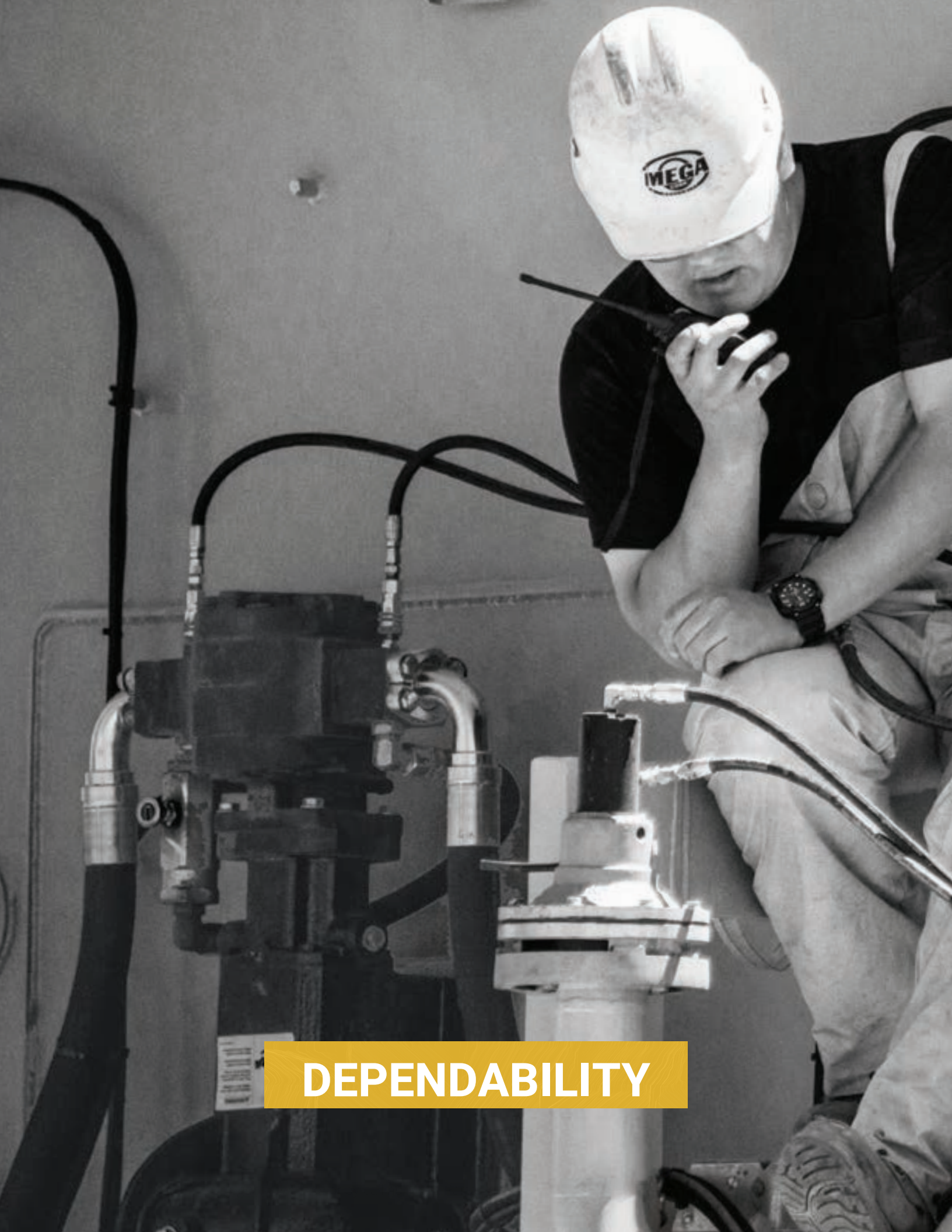
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	301104	Berkeley, B4J Water Pump-CW (Keyed Shaft)	1				
1	300531	Bracket	1	18	303812	Grease Fitting, 0.25 inch	2
2	300532	Outer Bearing Cap	1	19	350025	Nut, 3/8 inch	4
3	301687	Shaft Key*	1	20	302298	Stud, 3/8-16 X 1 3/8 inch	4
4	300536	Snap Ring Retainer *	1	21	350283	Bolt, 5/8 x 1 1/2 inch	12
5	300542	Thrust Ring*	1	22	300545	Gasket, Balance Ring**	1
6	300538	Ball Bearing, Outer*	1	23	301099	Balance Ring	1
7	300537	Impeller Side Bearing*	1	24	301097	13 inch Impeller, Clockwise Rotation	1
8	300534	Keyed Shaft, Clockwise Rotation*	1	25	300552	Volute Case Gasket**	1
9	300539	Bearing Cap, Impeller Side	1	26	301103	Impeller Washer	1
10	300541	Water Slinger**	1	27	300551	Lock Impeller Washer	1
11	300533	Split Gland	1	28	300549	Impeller Bolt	1
12	300719	Rope Packing**	1	29	301101	Wear Ring	1
13	300540	Throat Bushing	1	30	012930	Outlet Gasket, 4 inch	1
14	300543	Lantern Ring	1	31	301098	Volute Case, CW	1
15	300535	Wear Shaft Sleeve*	1	32	012929	Inlet Gasket, 5 inch	1
16	354187	Bolt, Gland	2	33	350852	Pipe Plug, 1/2 inch, Volute	4
17	300363	Gland Nut	2	34	301458	Coupling†	1
				35	300554	Shaft Kit	1

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

** Gasket and seals required for pump rebuild assembly.

† Replacement parts only. Parts sold separately and not included with the water pump.

If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

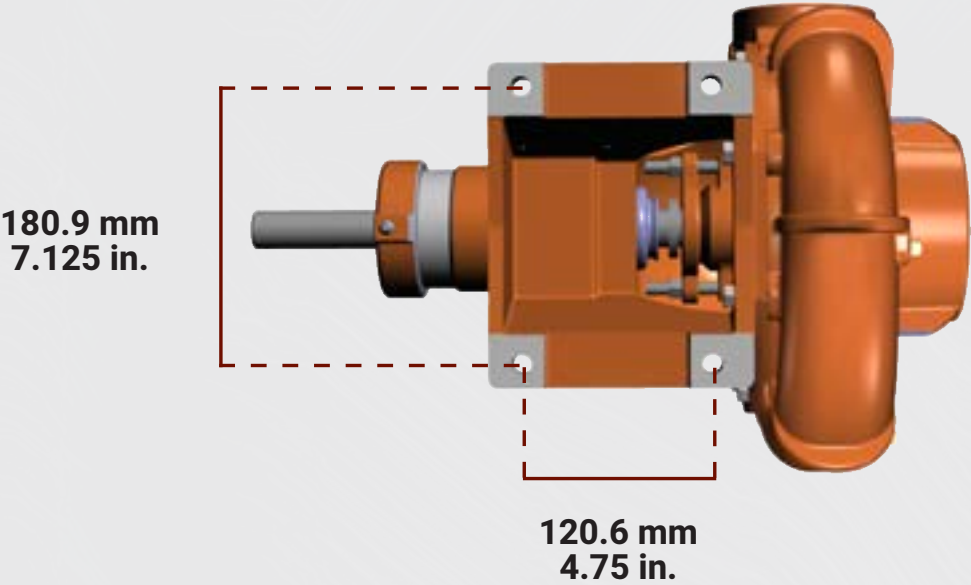


DEPENDABILITY

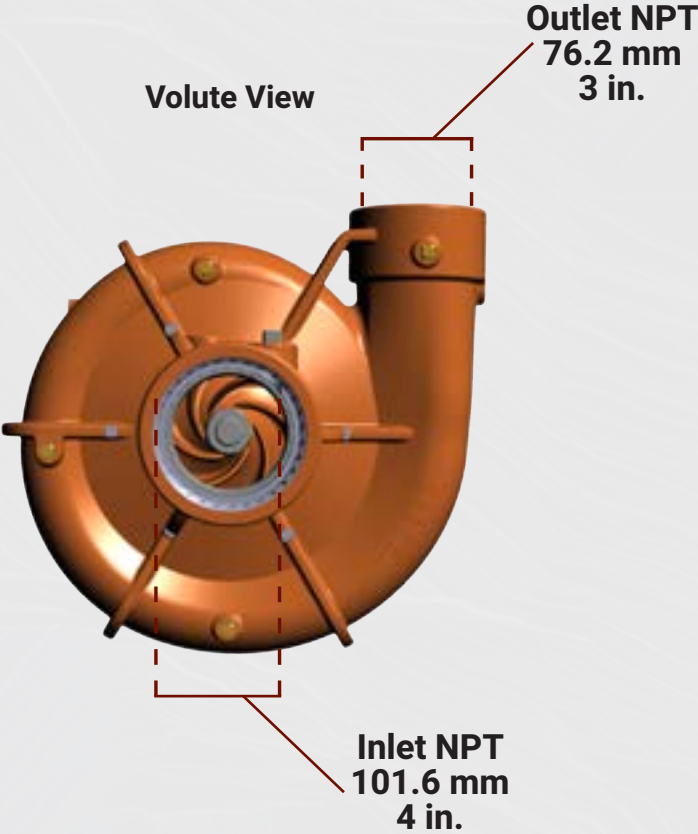
B3 & B3Z Basic Dimensions

Please contact Parts Sales at 1.800.345.8889 for more dimensional information on our B3 & B3Z water pumps.

Footprint/ Bottom



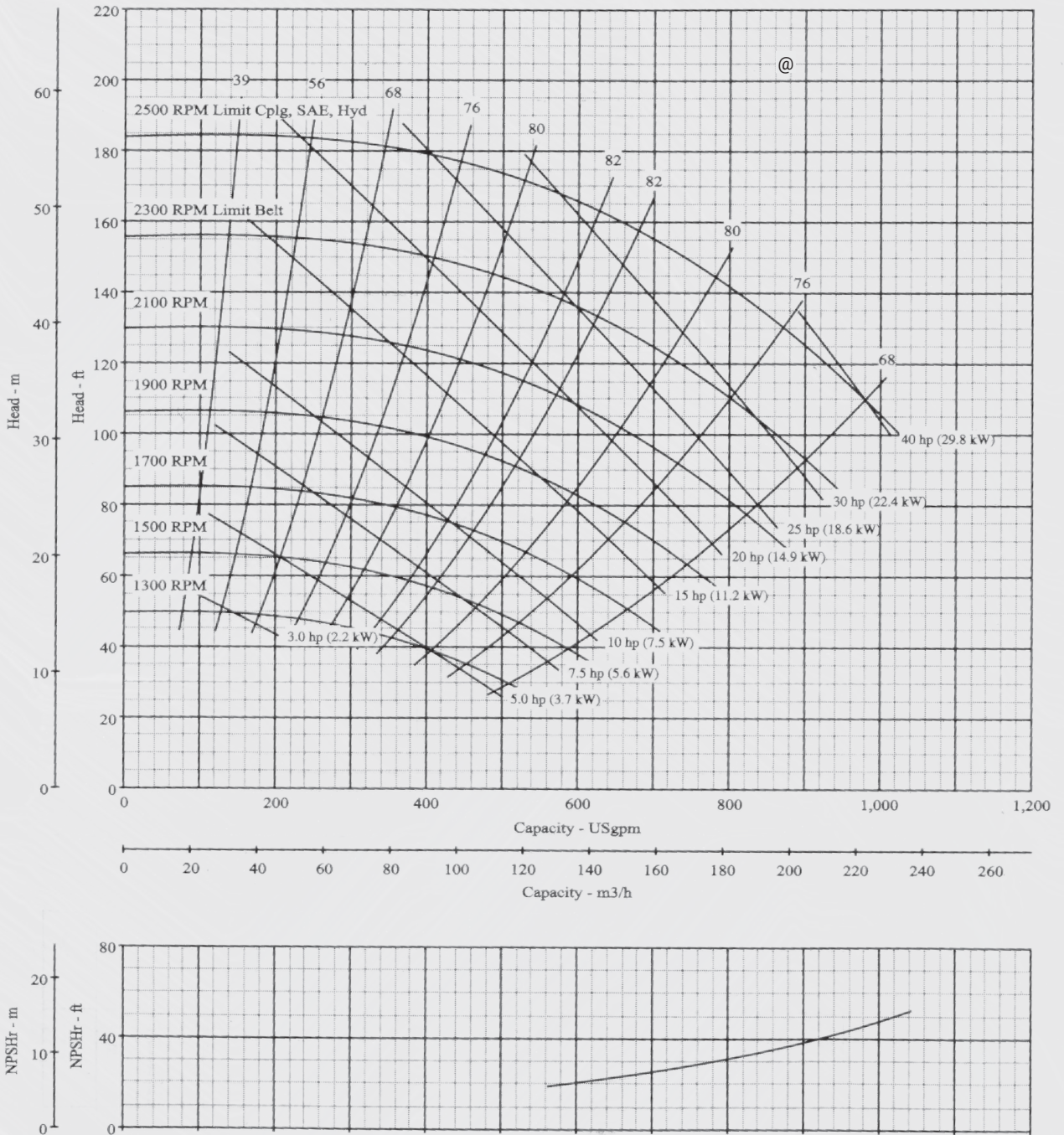
Volute View



B3 & B3Z Berkeley Pump Performance Curve

Dia. 9.00"

Nominal RPM: **VARIOUS**
 Based on Fresh Water @ 68°F (20°C)
 Maximum Working Pressure: 266 PSI (18 BAR)

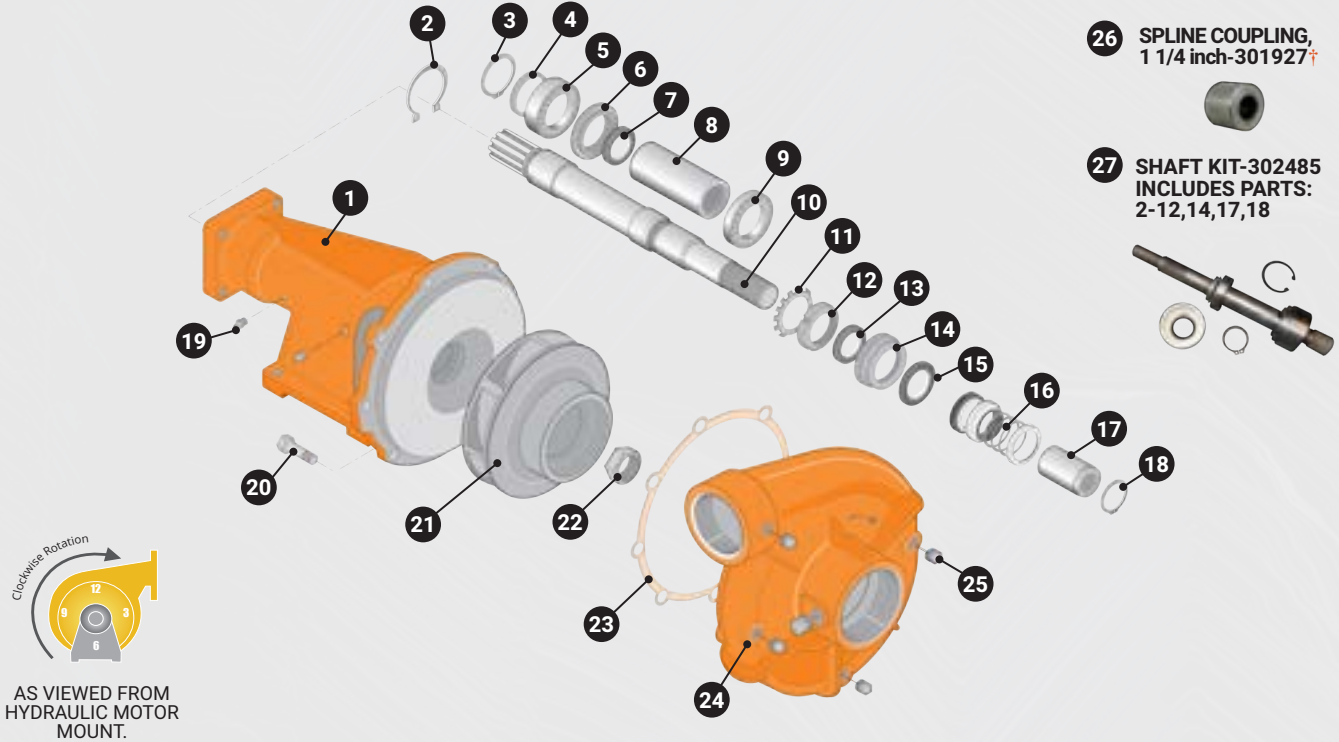


Berkeley B3 Splined Shaft/Direct Motor Mount Water Pump, CW

Part No. 302001

Berkeley standard open centrifugal water pump with direct motor mount. Mechanical shaft seal.

- Clockwise Rotation
- Inlet 4 inch NPT
- Outlet 3 inch NPT
- 9 inch Impeller



Clockwise Rotation
AS VIEWED FROM HYDRAULIC MOTOR MOUNT.

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	302001	Berkeley, B3 Berkeley-CW (Splined Shaft)	1	14	302451	Bearing Cap, Impeller Side*	1
1	302004	Bracket	1	15	300558	Water Slinger	1
2	302483	Retaining Ring*	1	16	302452	Mechanical Shaft Seal**	1
3	302482	Retainer Ring*	1	17	303952	Wear Shaft Sleeve*	1
4	302009	Thrust Washer*	1	18	302484	Retaining Ring*	1
5	302450	Drive Side Bearing *	1	19	300519	Grease Fitting, 1/4 inch	2
6	302453	Bearing Cap, Drive Side*	1	20	350145	Cap Screw, 3/18 - 16 GR8	8
7	302446	Motor Side Oil Seal *	1	21	300389	9 inch Impeller	1
8	302448	Spacer Sleeve*	1	22	302480	Locknut, Impeller	1
9	302449	Impeller Side Bearing*	1	23	300385	Volute Case Gasket**	1
10	302006	Shaft, CW*	1	24	300391	Volute Case	1
11	300379	Bearing Lock Washer*	1	25	305473	Pipe Plug, 1/4 inch	4
12	300378	Lock Nut Bearing *	1	26	301927	Spline Coupling, 1 1/4 inch†	1
13	302447	Oil Seal, Impeller Side**	1	27	302485	Shaft Kit	1

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

** Gasket and seals required for pump rebuild assembly.

† Replacement parts only. Parts sold separately and not included with the water pump.

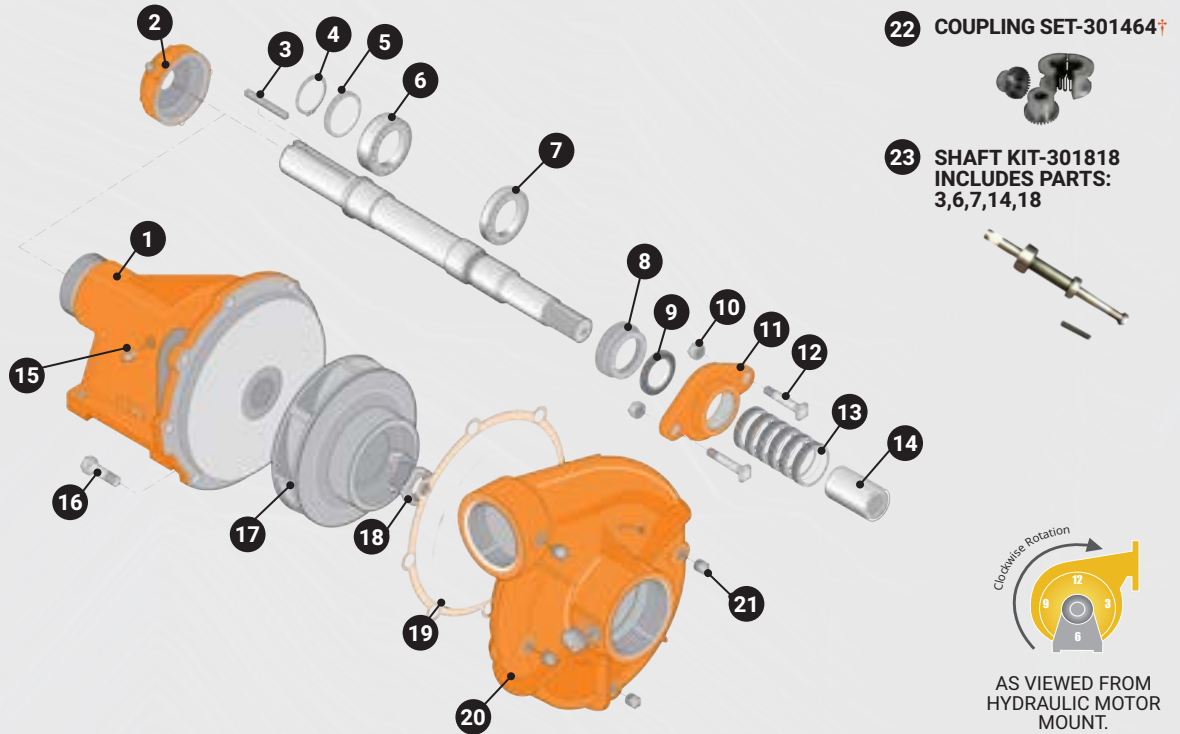
If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

Berkeley B3Z Keyed Shaft Water Pump, CW

Part No. 300049

Berkeley standard open centrifugal water pump with direct motor mount. Rope packing shaft seal.

- Clockwise Rotation
- Inlet 4 inch NPT
- Outlet 3 inch NPT
- 9 inch Impeller



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	300049	Berkeley, B3Z Water Pump (Keyed Shaft)	1	13	300380	Packing Ring, Set of 6	1
1	300390	Bracket	1	14	300373	Shaft Sleeve*	1
2	301831	Outer Bearing Cap	1	15	300519	Grease Fitting, 1/4 inch	1
3	301008	Key, 1/4 inch X 2 1/8 inch*	1	16	350145	Cap Screw, 3/18 - 16 GR8	8
4	302482	Retaining Ring	1	17	300389	9 inch Impeller	1
5	307077	Thrust Ring	1	18	300524	Impeller Lock Washer*	1
6	300383	Ball Bearing*	1	19	300385	Volute Case Gasket**	1
7	300384	Ball Bearing*	1	20	300391	Volute Case	1
8	300374	Bearing Drip Cap	1	21	305473	Pipe Plug, 1/4 inch	4
9	300558	Water Slinger**	1	22	301464	Coupling Set, 1-1/8 inch X 1-1/4 inch†	1
10	300518	Nut, Hex, 3/8 inch-16 inch	2	23	301818	Shaft Kit	1
11	300372	Split Gland	1				
12	300517	Bolt, SQ Head 3/8-16 X 2 1/2	2				

If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

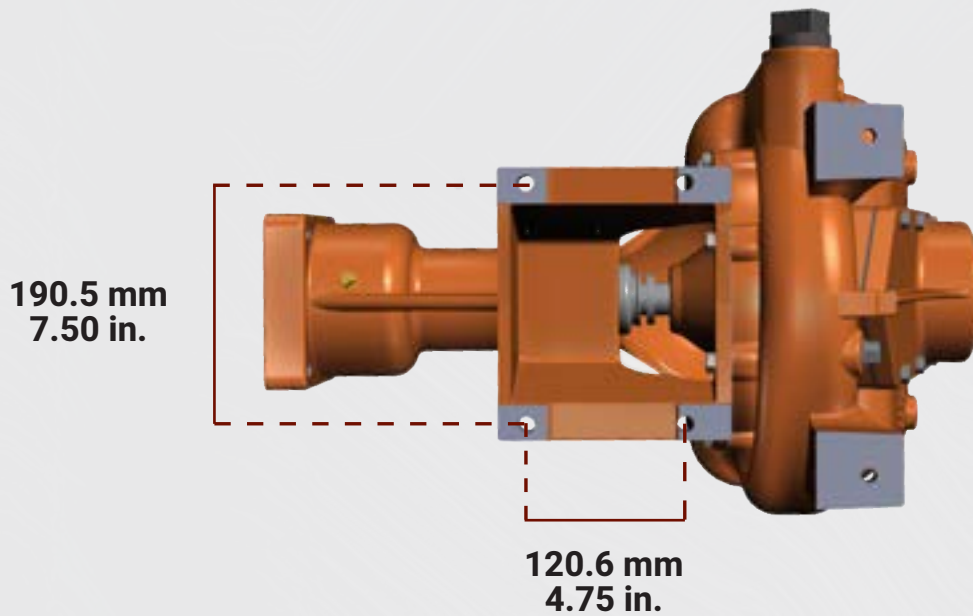
** Gasket and seals required for pump rebuild assembly.

† Replacement parts only. Parts sold separately and not included with the water pump.

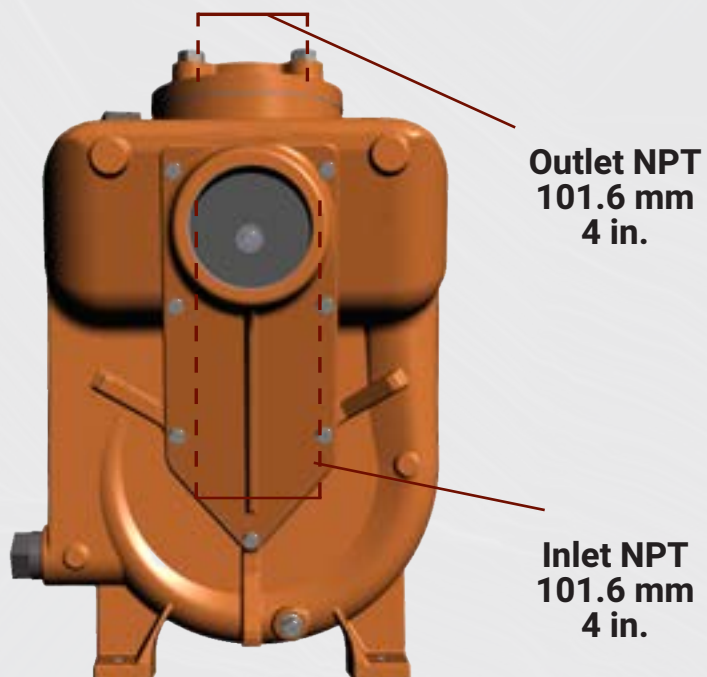
B4Z Basic Dimensions

Please contact Parts Sales at 1.800.345.8889
for more dimensional information on our B4Z water pump.

Footprint/ Bottom



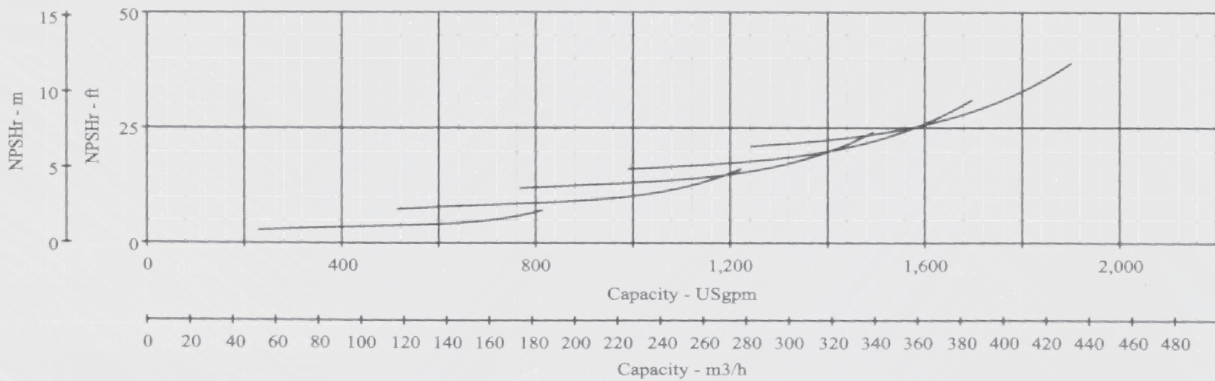
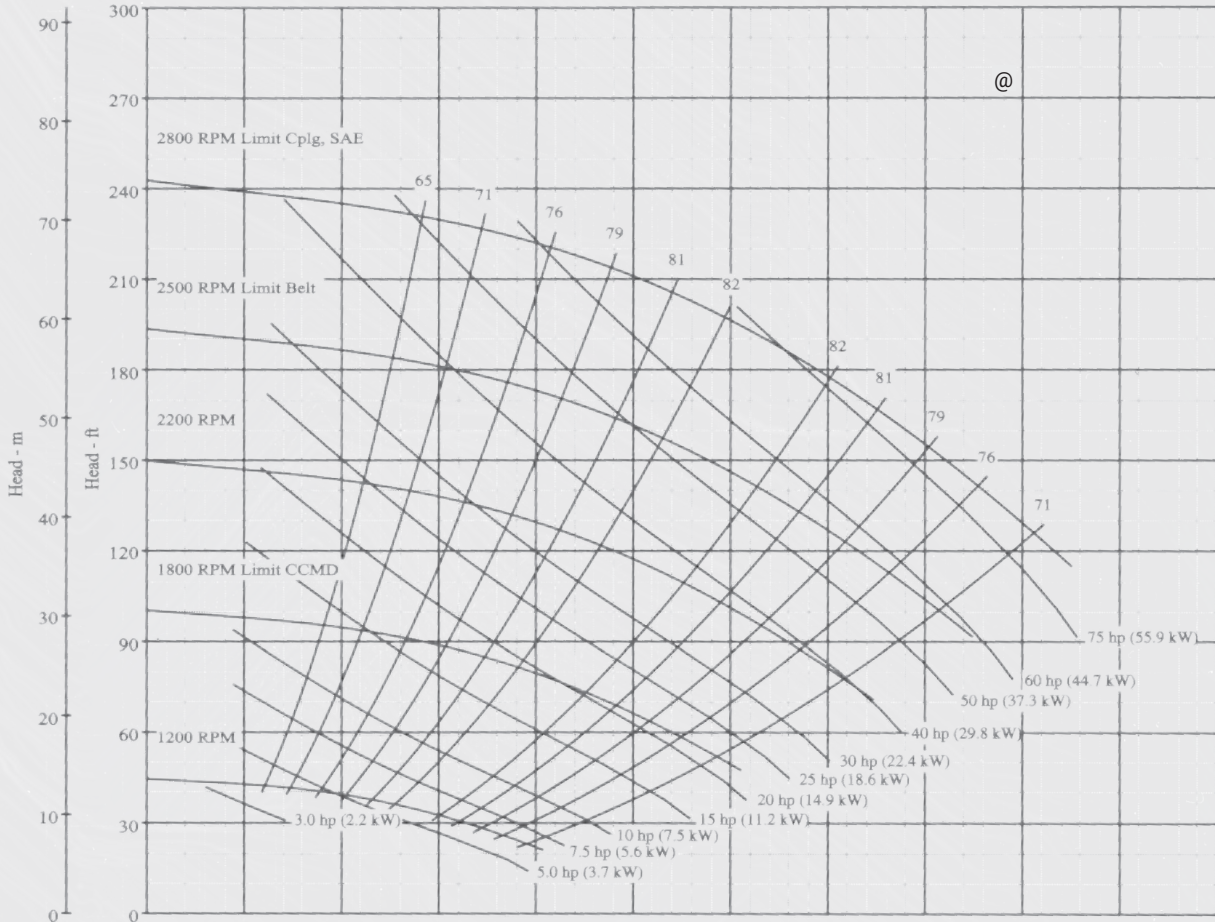
Volute View



B4Z Berkeley Pump Performance Curve

Dia. 9.50"

Nominal RPM: **VARIOUS**
 Based on Fresh Water @ 68°F (20°C)
 Maximum Working Pressure: 175 PSI (12 BAR)

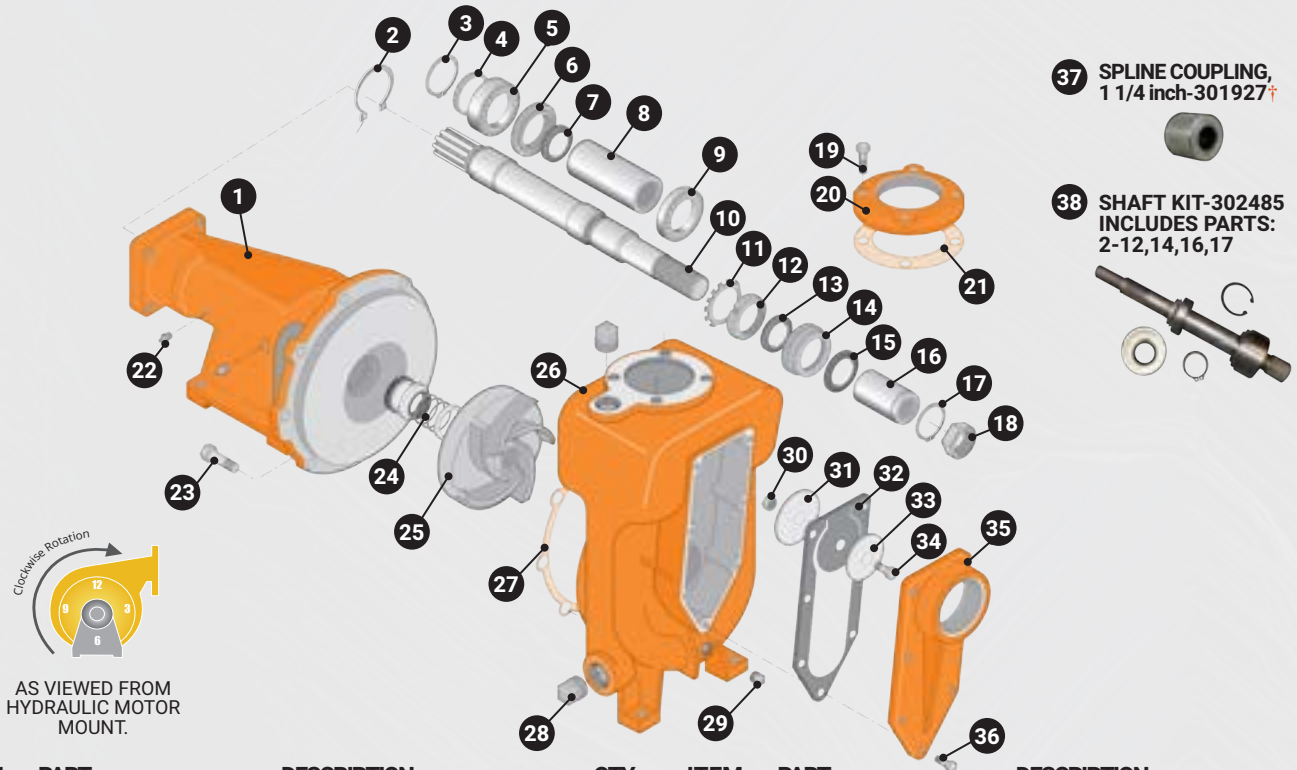


Berkeley B4Z Splined Shaft Self Priming Water Pump, CW

Part No. 302430

Berkeley standard open centrifugal water pump with direct motor mount. Mechanical shaft seal.

- Clockwise Rotation
- Inlet 4 inch NPT
- Outlet 4 inch NPT
- 9 inch Impeller



AS VIEWED FROM
HYDRAULIC MOTOR
MOUNT.

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	302430	Berkeley, B4Z Water Pump-CW (Splined Shaft)	1	20	300581	Companion Flange	1
1	302004	Bracket	1	21	300582	Companion Flange Gasket	1
2	302483	Retainer Ring*	1	22	300519	Grease Fitting, 1/4 inch	2
3	302482	Retaining Ring*	1	23	350144	Cap Screw 3/8-16 X 0.85 inch	8
4	302009	Thrust Washer*	1	24	302452	Mechanical Shaft Seal**	1
5	302450	Drive Side Bearing*	1	25	300575	Impeller, 9 inch, CW	1
6	302453	Bearing Cap, Drive Side*	1	26	300556	Volute Case	1
7	302446	Motor Side Oil Seal *	1	27	300385	Gasket, Case	1
8	302448	Spacer Sleeve*	1	28	350856	Pipe Plug, 1 1/2 inch	2
9	300384	Ball Bearing*	1	29	350852	Pipe Plug, 1/2 inch	1
10	302006	Spline Shaft *	1	30	350025	Nut, 3/8 inch	1
11	300379	Bearing Lock Washer*	1	31	300580	Clack Weight	1
12	300378	Lock Nut Bearing *	1	32	300576	Check Valve, Gasket	1
13	302447	Oil Seal, Impeller Side**	1	33	300578	Clack Weight	1
14	302451	Bearing Cap, Impeller Side*	1	34	350143	CS 3/8-16 X 3/4	1
15	300558	Water Slinger**	1	35	300579	Suction, Cover	1
16	303952	Wear Shaft Sleeve*	1	36	350146	Bolt, 3/8 inch-16 inch x 1 1/4 inch	7
17	302484	Retaining Ring*	1	37	301927	Spline Coupling, 1 1/4 inch†	1
18	302480	Locknut, Impeller	1	38	302485	Shaft Kit	1
19	350284	Cap Screw 5/8-11 X 1 3/4 inch	4				

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

** Gasket and seals required for pump rebuild assembly.

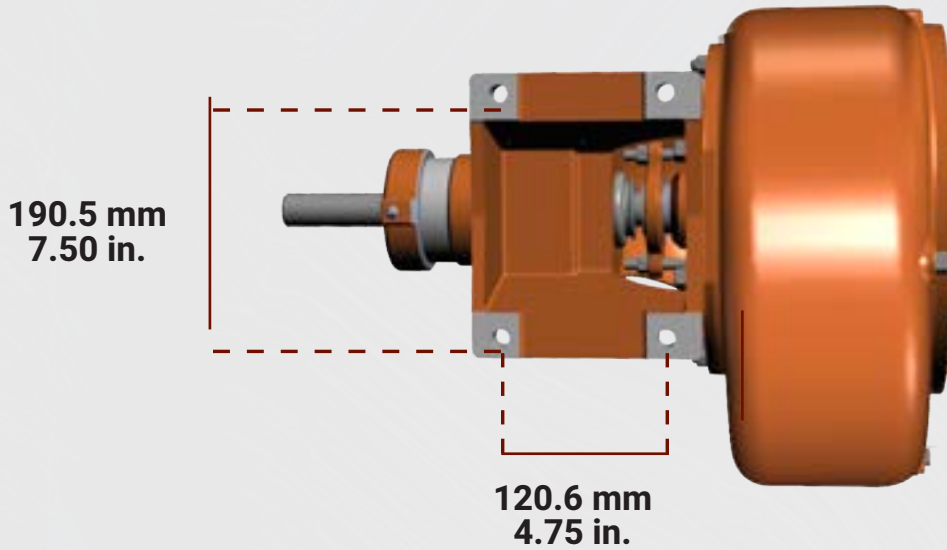
† Replacement parts only. Parts sold separately and not included with the water pump.

If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

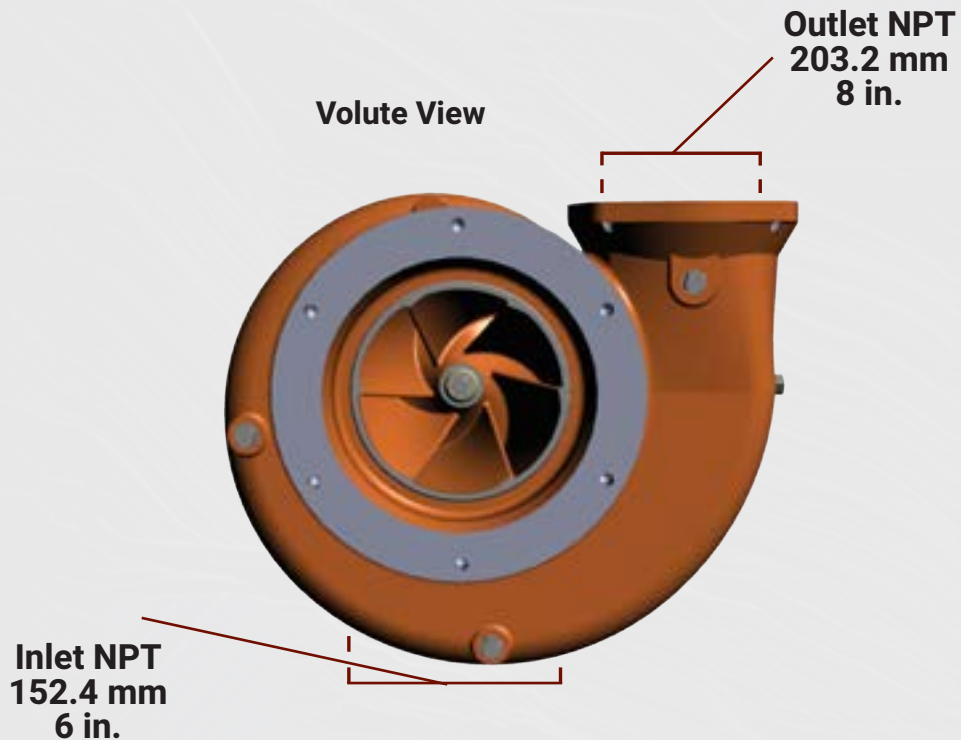
B6Z Basic Dimensions

Please contact Parts Sales at 1.800.345.8889
for more dimensional information on our B6Z water pump.

Footprint/ Bottom



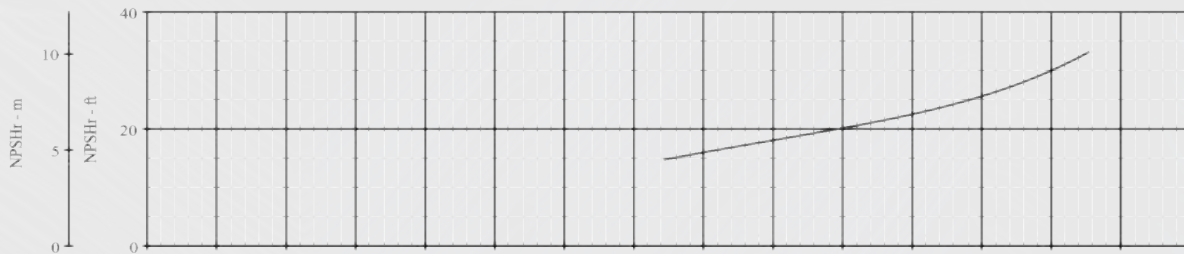
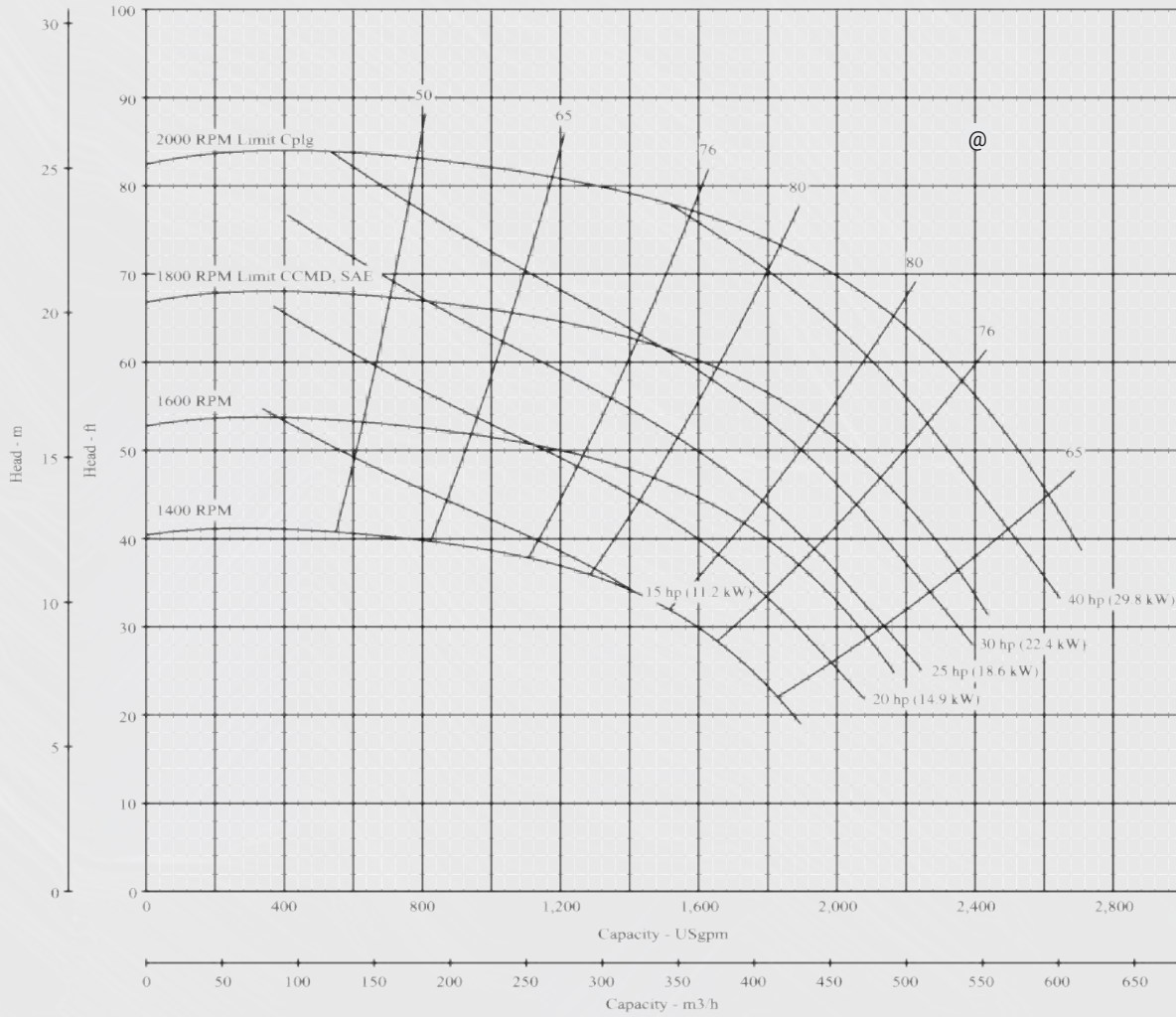
Volute View



B6Z Berkeley Pump Performance Curve

Dia. 9.00"

Nominal RPM: **VARIOUS**
 Based on Fresh Water @ 68°F (20°C)
 Maximum Working Pressure: 266 PSI (18 BAR)



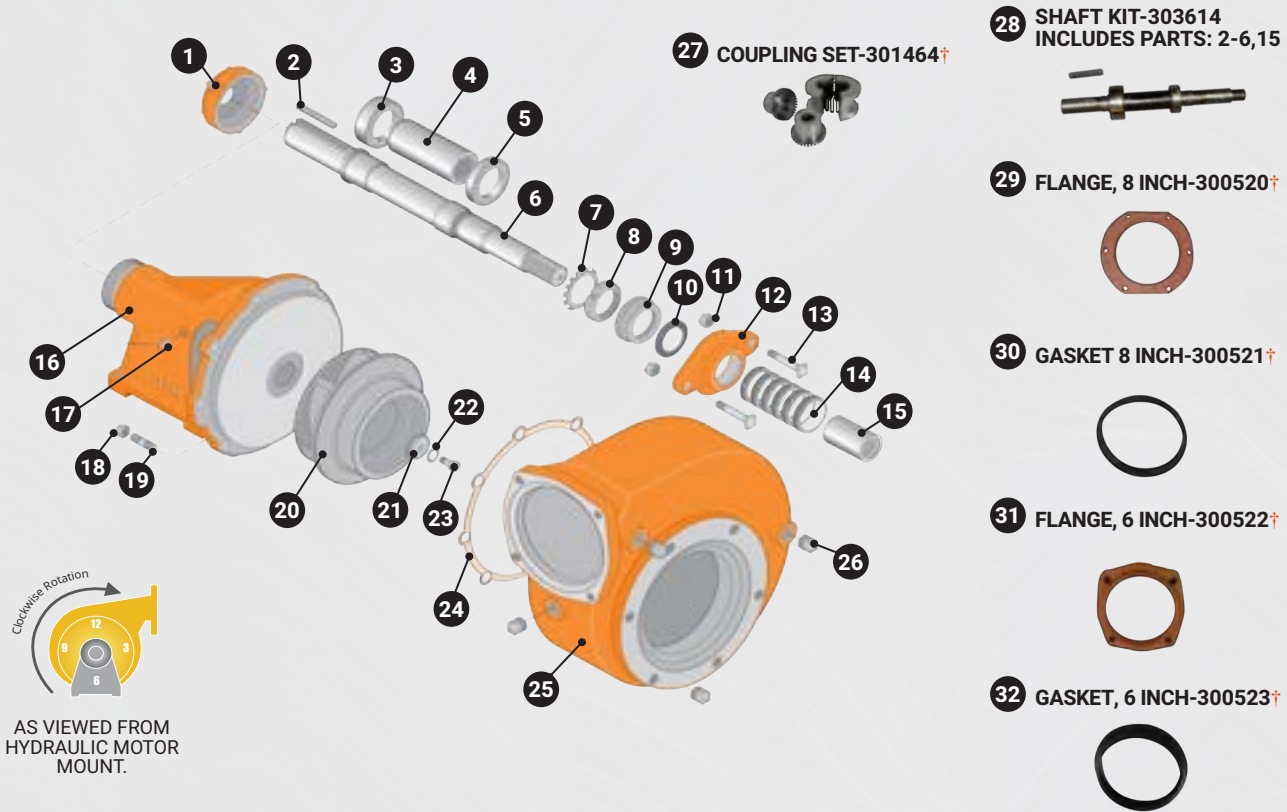
*NPSH data shown is at maximum speed

Berkeley B6Z Keyed Shaft Water Pump, CW

Part No. 300048

Berkeley standard open centrifugal water pump with rope packing shaft seal.

- Clockwise Rotation
- Inlet 6 inch
- Outlet 8 inch
- 9 inch Impeller



ITEM	PART NO.	DESCRIPTION	QTY
	300048	Berkeley, B6Z Water Pump-CW (Keyed Shaft)	1
1	301831	Outer Bearing Cap	1
2	301008	Key, 1/4 inch X 2 1/8 inch*	1
3	300383	Ball Bearing*	1
4	300381	Spacer, Bearing*	1
5	300384	Ball Bearing*	1
6	300516	Shaft, CW*	1
7	300379	Bearing Lock Washer	1
8	300378	Lock Nut Bearing	1
9	300374	Bearing Drip Cap	1
10	300558	Water Slinger	1
11	300518	Nut, Gland	2
12	300372	Split Gland	1
13	300517	Bolt, Gland	2
14	300380	Ring Packing	1
15	300373	Shaft Sleeve*	1
16	300390	Bracket	1

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

** Gasket and seals required for pump rebuild assembly.

† Replacement parts only. Parts sold separately and not included with the water pump.

27	COUPLING SET-301464†		
28	SHAFT KIT-303614 INCLUDES PARTS: 2-6,15		
29	FLANGE, 8 INCH-300520†		
30	GASKET 8 INCH-300521†		
31	FLANGE, 6 INCH-300522†		
32	GASKET, 6 INCH-300523†		
17	306697	Grease Fitting, 5/16 inch	1
18	350025	Nut, 3/8 inch	8
19	302298	Stud, 3/8-16 X 1 3/8 inch	8
20	300388	Impeller	1
21	300524	Impeller Lock Washer	1
22	300526	Lock Washer	1
23	300525	Cap Screw, Impeller	1
24	300385	Case, Gasket	1
25	300392	Volute Case	1
26	350852	Pipe Plug, 1/2 inch	4
27	301464	Coupling Set, 1-1/8 inch X 1-1/4 inch†	1
28	303614	Shaft Kit	1
29	300521	Flange, 8 inch†	1
30	300520	Gasket, 8 inch†	1
31	300522	Flange, 6 inch†	1
32	300523	Gasket, 6 inch†	1

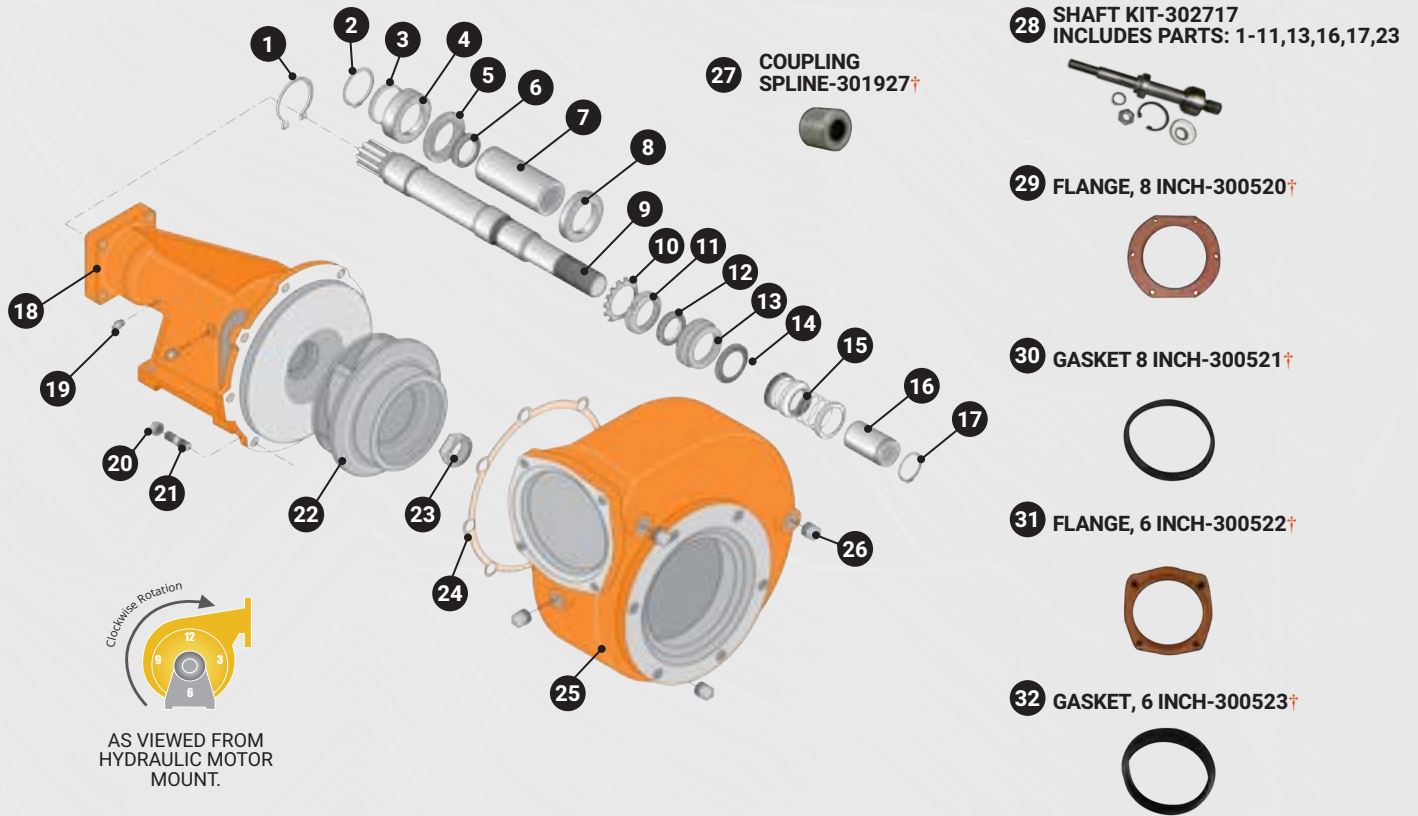
If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

Berkeley B6Z Splined Shaft Water Pump, CW

Part No. 302565

Berkeley standard open centrifugal water pump with direct motor mount. Mechanical shaft seal.

- Clockwise Rotation
- Inlet 6 inch
- Outlet 8 inch
- 9 inch Impeller



AS VIEWED FROM
HYDRAULIC MOTOR
MOUNT.

ITEM	PART NO.	DESCRIPTION	QTY
	302565	Berkeley, B6Z Water Pump-CW (Splined Shaft)	1
1	302483	Ring, Retaining*	1
2	302482	Ring, External, Retaining*	1
3	302009	Thrust Washer*	1
4	302450	Ball Bearing*	1
5	302453	Cap, Outer Bearing*	1
6	302446	Seal, Oil*	1
7	302448	Sleeve, Spacer*	1
8	300384	Ball Bearing*	1
9	303190	Shaft*	1
10	300379	Bearing Lock Washer*	1
11	300378	Lock Nut Bearing *	1
12	302447	Seal, Oil	1
13	302451	Cap Drip, Bearing*	1
14	300558	Water Slinger	1
15	302452	Mechanical Seal	1

ITEM	PART NO.	DESCRIPTION	QTY
16	303952	Shaft Sleeve*	1
17	302484	Ring, External, Retaining*	1
18	302004	Bracket	1
19	300519	Grease Fitting, 1/4 inch	2
20	350025	Nut, 3/8 inch	8
21	302298	Stud, 3/8-16 X 1 3/8 inch	8
22	300388	Impeller, CW	1
23	302480	Impeller Nut*	1
24	300385	Gasket, Case	1
25	300392	Volute Case	1
26	350852	Pipe Plug, 1/2 inch	4
27	301927	Spline Coupling, 1 1/4 inch†	1
28	302717	Shaft Kit	1
29	300521	Flange, 8 inch†	1
30	300520	Gasket, 8 inch†	1
31	300522	Flange, 6 inch†	1
32	300523	Gasket, 6 inch†	1

* These parts are included in the shaft kit. The shaft is not sold separately and is only sold as a shaft kit.

** Gasket and seals required for pump rebuild assembly.

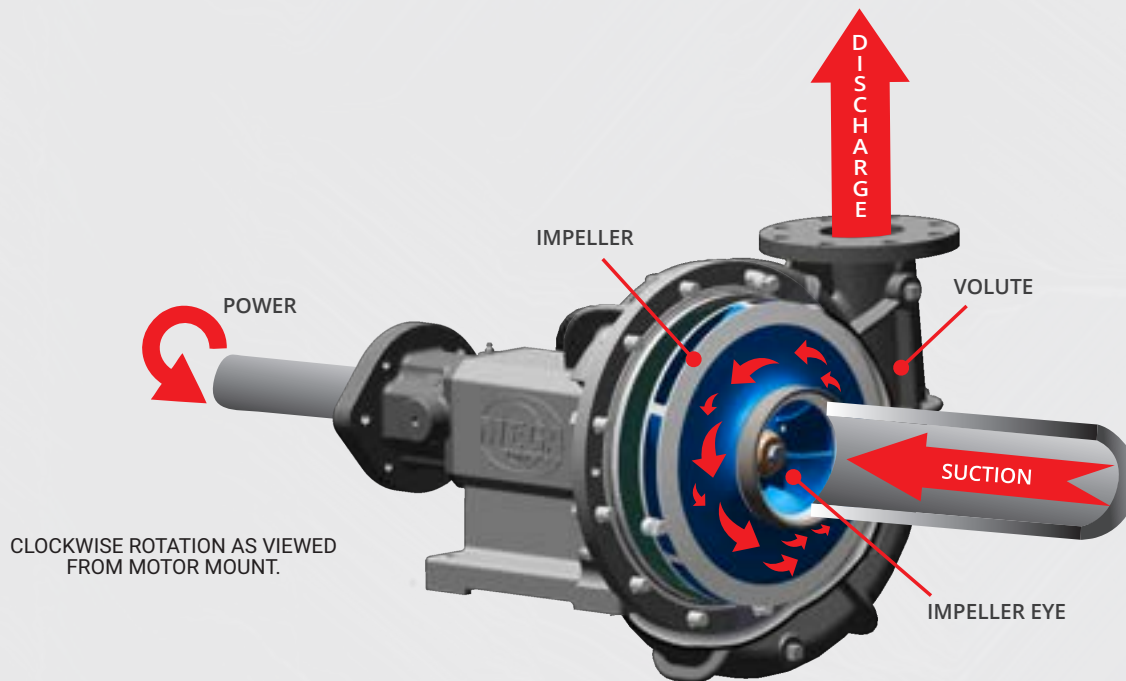
† Replacement parts only. Parts sold separately and not included with the water pump.

If illustration does not match your configuration please call product support at 505.345.2661 or 1.800.345.8889.

Mega Water Pump Frequently Asked Questions

What is an open centrifugal pump?

Centrifugal water pumps use centrifugal force to pressurize and move water from the inlet to the outlet. A rotating set of vanes (called an impeller) is spun by the pump shaft. As water is forced through the impeller, rotational energy is transferred from the impeller to the water, which gains velocity and pressure through the centrifugal force applied and is flung from the impeller. The volute (a spiral-shaped case) funnels the now-pressurized water to the outlet.



Pressure and Flow, and what causes water pressure.

Pressure and flow are inversely related—that is, if pressure is increased, then flow decreases, and vice versa. "Pressure" is the amount of force per area, and "flow" is the volume of material moving through a given area per second (not the same as velocity, which is the distance traveled per time).

Water pressure is caused by resistance to flow. If a force tries to move water and there is resistance to that movement, then the water becomes pressurized. Consider a standard garden hose; when the end of the hose is unrestricted, water flows out of the hose in large quantities, but without much force. If you press your thumb over the opening, however, the stream of water that shoots out from around your thumb will be much more forceful and will travel further, but there will also be less water per second leaving the hose.

What happens when an open centrifugal pump is "Dead-headed"?

A centrifugal pump is "dead-headed" when it is operated without an open discharge outlet (no water flow). In a no-flow condition very little horsepower input is required to spin the impeller, so the water pump drive motor input pressure will be low and the pump will not stall. Therefore, a dead-headed pump will convert the rotational energy of the shaft and impeller into heat. The heat will boil the water inside the volute, causing severe damage to grease and bearings.

Mega Water Pump Frequently Asked Questions

When should I replace gaskets?

Any time that the water pump is serviced and the gaskets are removed, replace the gaskets. Gaskets are inexpensive, and a faulty gasket will cause the pump to leak.

Is my water pump supposed to leak water from around the shaft seal?

Yes. A small amount of water leaking through the shaft seal is necessary to lubricate and cool the rope packing and shaft sleeve. The recommended leakage rate is between 60 and 120 drops per minute, which will result in a small trickle of water. If water leakage is excessive, simply adjust the packing glands to compress the rope packing until leakage is within the recommended parameters.

How do I adjust the packing, and when should I adjust it?

Different types of packing are designed to leak at certain rates. If the packing begins to leak at a greater rate than the allowed amount, tighten the packing gland with a wrench until the leakage is reduced to within the specified parameters. Additionally, the stuffing box temperature should be checked regularly. If the temperature becomes too high, loosen the packing gland until the temperature drops to a consistently safe level.

When should I replace the packing?

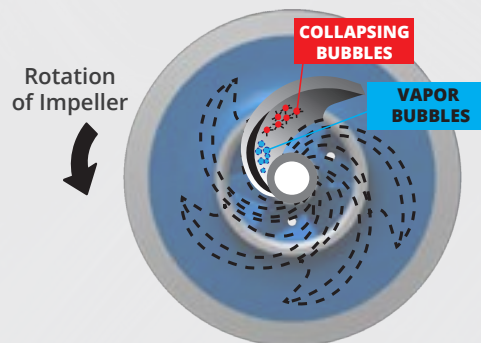
Over time as the packing is subjected to continual heat and pressure through normal use, lubricant will be forced out of the packing material. The life of the packing material can be extended by periodically tightening the packing gland whenever there is packing leakage greater than the specified amount (Mega's rope packing seals are designed to leak approximately 60 drops per minute). Eventually, all of the lubricant will have been squeezed out of the packing material, and tightening the packing gland will no longer prevent leakage. When this happens, it is time to replace the packing.



New rope packing installed

What causes pump cavitation?

When the inlet pressure of a water pump falls below pump design specifications, tiny vapor bubbles can form in the water around the eye of the impeller. When the water containing these bubbles is forced into a high pressure environment on the other side of the impeller, these bubbles collapse, thereby creating tiny shock waves and points of high temperature. These shock waves can actually corrode the surface of the impeller. To prevent cavitation, always be sure to operate your water pump within its pressure and flow specifications.



Is it ok to run the pump dry?

No. The water pump shaft and impeller are rotating at high RPMs. Without water to transfer the heat created by rotational energy, the moving parts become extremely hot, causing severe damage to the pump and significantly limiting service life.

Mega Water Pump Frequently Asked Questions

Does Mega have a pump that will lift water vertically?

Mega offers a self-priming centrifugal pump for suction loading applications. The B4Z pump lifts water a vertical distance of 7-10 feet.

Why is there little or no water pressure even though the water pump is spinning?

Good spray performance requires high water pressure. Some pumps are designed to move a high volume of water (high flow), and as a result the pressure of the moving water is low. In this case, try limiting the number of spray heads open at a time. Limiting the flow of water leaving the spray system should increase the water pressure. A water pump with high flow may perform poorly with four spray heads open simultaneously, but may work very well if only two spray heads are open. If the problem persists, check to see if the pump impeller or shaft bearings are worn or damaged.

Why isn't my pump pumping?

There could be several factors behind this:

- Check to ensure that there is enough water present in the tank to allow safe pumping. The Mega Digital Spray Control System (DiSCS®) will shut the water pump off when the water level is too low.
- Beware of air locks. If there is too little water in the tank, the pump may have drawn in a large air pocket that is preventing the flow of water (see "What is an air lock?").
- Is the lift displacement too great? If you are operating a suction lift pump, be sure that the water reservoir you are drawing from is no more than seven feet below the pump, otherwise the resistance to flow may be too great.
- Are supply and discharge pipes configured correctly? Using pipes that are too small in diameter or that have too many elbows will increase flow resistance and decrease pump performance.

What is an air lock?

An air lock occurs when large pockets of air are drawn into the inlet side of the water pump. This creates a void and prevents the pump from drawing in water which decreases, or can stop pump performance. If the air pocket is drawn through the impeller and into an area of high water pressure, the bubbles will collapse and create large shock waves that will severely damage the pump.

Why did the pump shaft break?

Water pump shaft failures can be caused by several factors:

- Sudden start or stop of the pump - rpm should be ramped up and down over a minimum of 2 seconds.
- Engaging a water pump abruptly can twist the impeller off of the shaft and damage the shaft bearings.
- Water hammer caused by the sudden shut-off of water flow can cause the impeller to break the pump shaft and damage shaft bearings over time.
- An unbalanced or damaged impeller can cause shaft failure and bearing damage over time.

Does Mega offer a corrosion-resistant or stainless steel water pump?

Yes, we do. Our Mega M4B water pump P/N 306201 is available in a corrosion-resistant form where all parts that come in contact with water are stainless steel. For the most corrosive environments, we offer a fully stainless steel Mega M4 water pump P/N 306647. Please call Parts Sales at 505.345.2661 for more information.

Does Mega offer a water pump with a mechanical shaft seal?

Yes. Mega offers several different pumps with mechanical shaft seals. P/N 301908 and P/N 304742.

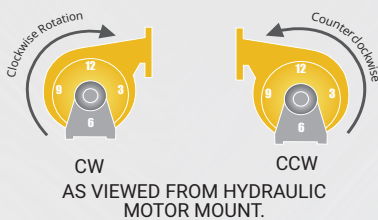
What type of materials are Mega water pumps constructed?

Mega water pumps are constructed of cast carbon steel and 300 series stainless steel.

How do I identify what water pump I have?

Your pump should have a metal identification tag on the frame. If the tag cannot be located, compare your pump with the photos on our website, or send us a photo of your pump and we can assist with identification. Call our Product Support Team or Parts Sales Team for assistance at 505.345.2661. We'd be happy to help!

Which direction should my pump be spinning?



Water pumps rotate either clockwise or counterclockwise as viewed from the drive shaft end of the pump. To determine rotation direction position the pump with the shaft end facing yourself. If the outlet of the pump is facing 90 degrees to the right, straight down on the right side of the pump center line, or straight up on the left side of the pump center line, then it is a clockwise rotation pump.

If the outlet of the pump is facing 90 degrees to the left, straight down on the left of the pump center line, or straight up on the right side of the pump center line, it is a counterclockwise pump.

Can Mega water pumps be damaged by freezing?

Yes. If a pump is allowed to freeze with water in it, cracking of the volute case as well as damage to the shaft and bearings may occur. Thoroughly drain the water from your pump and tank in freezing weather. If the pump has been frozen, disassemble and inspect it for damage before returning it to service

How often should my water pump's bearings be greased? Can an auto-lube be used?

Exact intervals and grease amounts vary depending upon the type of water pump. Refer to Mega's Schedule of Inspections Manual or the Mega Maintenance Manuals for exact instructions and details. Most Mega water pumps should be manually greased. The exception is Mega's M4B pump, which can be greased with an auto-lube system or connected to a prime mover's auto-lubing system. Over-greasing can damage bearings, and high pressure grease guns can blow out the pump's grease seals, resulting in bearing failure. Refer to Mega's Maintenance Manuals for full details.

Should I be concerned if my pump is noisy?

While most water pumps are fairly quiet during operation, hydraulic drive motors can be quite noisy. Confirm that the noise you are hearing is coming from the water pump. If the pump is making a growling, grinding, squealing, or popping noise, it should be disassembled and inspected for damage.

How much water pressure should my pump develop?

Refer to the water pump performance curve chart for your pump. Water pressure should be checked with water in the tank, spray heads closed, and the tractor engine at high idle. To obtain acceptable spray performance, a minimum of 85 psi water pressure under static conditions (no water flowing) is required. A static water pressure exceeding 125 psi can cause damage to water lines, connections and spray heads.

Thank You

For Your Business

THERE'S WORK TO BE DONE



EQUIPMENT ➤

700 Osuna Rd. NE

PARTS ➤

Albuquerque, NM 87113

SUPPORT ➤

www.megacorpinc.com

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THERE'S WORK TO BE DONE



MEGA WATER CANNONS

Mega's water cannons are designed and built to perform in the most severe environments of mining and construction. Designed for the water pressures and flows required in the mobile water equipment industry, we offer water cannons for use with both electric and electro-hydraulic systems, as well as a manually-operated water cannon for use where no power is available.



GENUINE MEGA



MEGA WATER CANNONS

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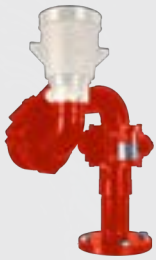
MEGA WATER CANNONS

Mega water cannons (known as 'monitors' in the fire fighting industry) are designed for the severe duty environments of mining and construction. Mega water cannons feature 2.5 inch stainless steel waterways and a unique, permanently lubricated swivel joint design that minimizes maintenance requirements and improves service life. Mega also offers application-specific water cannons, so that no matter what your needs are, we have a water cannon that will work for you.

Mega water cannons are available in electric drive and electro-hydraulic drive models. We also offer a manually-operated water cannon suitable for both stationary and mobile applications. Kit options are available for the hydraulic and electric water cannons.

Mega Severe Duty Water Cannons

Mega Hydraulic Water Cannon



Optional Nozzle shown.

The stainless steel Mega Hydraulic Water Cannon is compatible with electro-hydraulic systems that have a 24 VDC power source available. The Water Cannon is directed by a hydraulic control valve, which receives command signals from the Mega cab control system joystick. The hydraulic water cannon is rated for up to 450 psi hydraulic pressure, 200 psi water pressure, and has a reach of up to 200 ft. at 750 gpm (using the straight bore nozzle and stream shaper).

- Hydraulic drive motor; requires 24 VDC power source
- 1/2 gpm hydraulic motor flow at 500 psi
- Stainless steel waterway
- 320° horizontal rotation range, 155° vertical rotation range (+90° to -65°) and rotational speed of 20°/sec.

Mega Electric Water Cannon



Optional Nozzle shown.

The stainless steel Mega Electric Water Cannon is compatible with any water tank that has either a 12VDC or a 24 VDC power source available. The Water Cannon is directed by a logic box, which receives command signals from either the Mega cab control system joystick or a stand alone joystick box. The electric water cannon is rated for up to 450 psi hydraulic pressure, 200 psi water pressure, and has a reach of up to 200 ft. (using the straight bore nozzle with stream shaper).

- Electric drive motor; requires either a 12 VDC or a 24 VDC power source
- 1/2 gpm hydraulic motor flow at 500 psi
- Stainless steel waterway
- 320° horizontal rotation range, 155° vertical rotation range (+90° to -65°) and rotational speed of 20°/sec.

Mega Specialty Water Cannons

Mega Manual Water Cannon

For environments where no electrical power is available, we offer the Mega Manual Water Cannon. This water cannon uses a simple tiller bar control and manual friction brake, and is designed for fixed installations in non-corrosive environments. Easy to use and capable of up to 1250 gpm, this water cannon is ideal for fire suppression, equipment wash-down, and agricultural applications where no electric power is available.



Optional Nozzle shown.

- Durable, lightweight pyrolite construction
- 3.0 inch (76 mm) waterway
- Cast-in turning vanes in each elbow for more efficient flow and improved stream performance
- 360° horizontal rotation range, 150° vertical rotation range (+90° to -60°)
- Friction lock on horizontal and vertical rotation
- Not severe-duty

Mega Multi-Purpose Water Cannon

This specialty electric water cannon is compatible with any water tank that has a 12 VDC or 24 VDC power source available. The heavy-duty electric motors allows for swift positioning and high accuracy. The Mega Multi-Purpose Water Cannon comes with a adjustable electric fan to stream nozzle, and is best suited for small water tank units with lower flows and pressures.



Optional Nozzle shown.

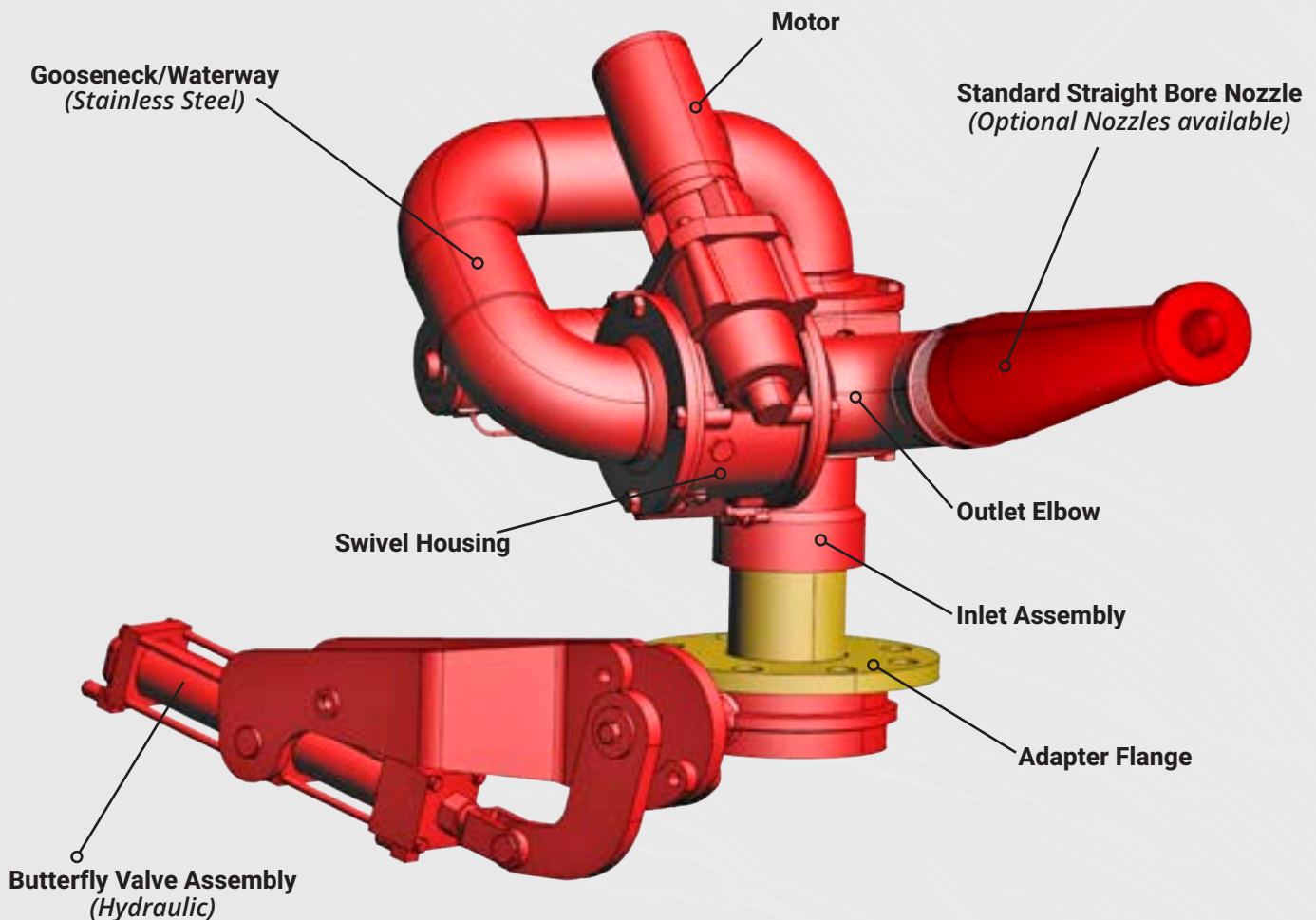
- Durable, lightweight Pyrolite construction; 10.4 kg (23 lbs) without nozzle
- Integrated and sealed electronics
- Waterproof (IP 67 rated) locking connectors
- 320° horizontal rotation range, 135° vertical rotation range (+90° to -45°) and rotational speed of 20°/sec
- Adjustable rotation stops
- Quick disconnect
- Not severe-duty



ADVANTAGES AND BENEFITS OF SEVERE DUTY MEGA WATER CANNONS

FEATURES	BENEFITS
STAINLESS STEEL WATERWAY	Long life in harsh waters.
LARGE POLYMER BEARINGS	No ball bearings. Improved service life. Easily re-buildable swivel joints.
2.5 INCH DIAMETER WATERWAY	Perfectly matched with Mega high performance pumps for long distance water stream shots.
2.5 INCH NFT NOZZLE ADAPTER	Plug and play application of adjustable nozzles, stream straighteners, and foam eduction equipment.
ELECTRIC OR HYDRAULIC MOTOR DRIVES	Can be adapted to any water tanker application.
COMPLETE CONTROL PACKAGES	Modular design for any retrofit application.

MAIN PARTS OF A WATER CANNON



No matter what your application or environment is, Mega has a water cannon that will work for you. All Mega Water Cannons are designed to endure harsh environments and poor water conditions. With the option of electric or hydraulic drive motors, as well as a completely manually operated version, our water cannons can be adapted to any water tank application. A variety of adjustable nozzles, stream shapers, and foam education equipment allows for even further customization.



HIGH DENSITY POLYMER BEARINGS

With a much longer service life, these bearings are far superior to ball bearings, and are exclusive in the mining industry. The Mega water cannon high density polymer bearings are specially designed for severe duty mining, and are present only in severe duty water cannons.



HEAVY DUTY GEARS AND SHAFTS

Heavy duty worm gears and planetary drives absorb shock to provide longer life in heavy duty environments. Additionally, the swivels and bearings are sealed and do not require regular service.



SPECIALTY NOZZLES

Mega's water cannons can be fitted with a variety of adjustable nozzles to customize the spray pattern and distance. In addition to the standard straight bore nozzle, Mega offers fog to stream, fog to stream with foam education, fan to stream (electric water cannon only), and foam education nozzles.



FOAM EDUCATION AVAILABLE

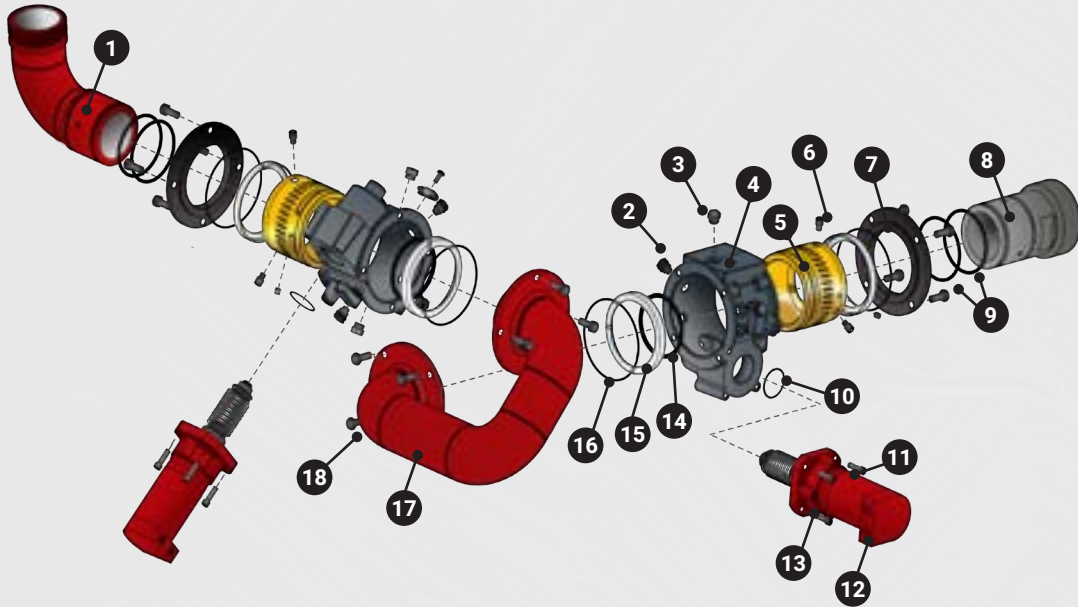
On-call, mobile fire suppression systems are essential for the safety of any mine or construction site. Mega offers a variety of adjustable air aspirating foam education nozzles for use with our water cannons. Further details on Mega's full Fire Suppression System can be found later in this section.

Mega Water Cannon, Hydraulic, Remote

Part No. 304952

- Stainless steel
- 450 PSI Drive Motors
- 2.5 inch waterway

- Severe duty construction
- Wear resistant polymer bearings
- Heavy duty shafts & gears



19 JOINT REBUILT KIT-305141
ITEMS: 2, 3, 6, 9, 10, 14, 15, 18



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	304952	Hydraulic, Water Cannon		11	304635	Motor Fastener	8
1	304627	Outlet Elbow	1	12	307586	Water Cannon Motor, Hydraulic	2
2	304632	Rotation Stop*	4	13	304656	Motor & Gear Assembly, Hydraulic	2
3	304633	Plug*	6	14	304638	O-Ring Seal, Inner Joint*	2
4	304643	Swivel Housing	2	15	304637	Bearing *	4
5	304630	Worm Gear	2	16	304636	O-Ring Seal, Flange	4
6	304642	Stud*	6	17	304628	Gooseneck Assembly	1
7	304631	Joint Cap	2	18	304640	Swivel Fastener*	16
8	304629	Inlet Assembly	1	19	305141	Joint Rebuilt Kit (Rebuilds 2 Joints)	1
9	304639	O-Ring Seal, Outer Joint*	4				
10	304897	O-Ring Seal Drive*	2				

* Nozzle not included. Please look at our nozzle section to purchase a nozzle.

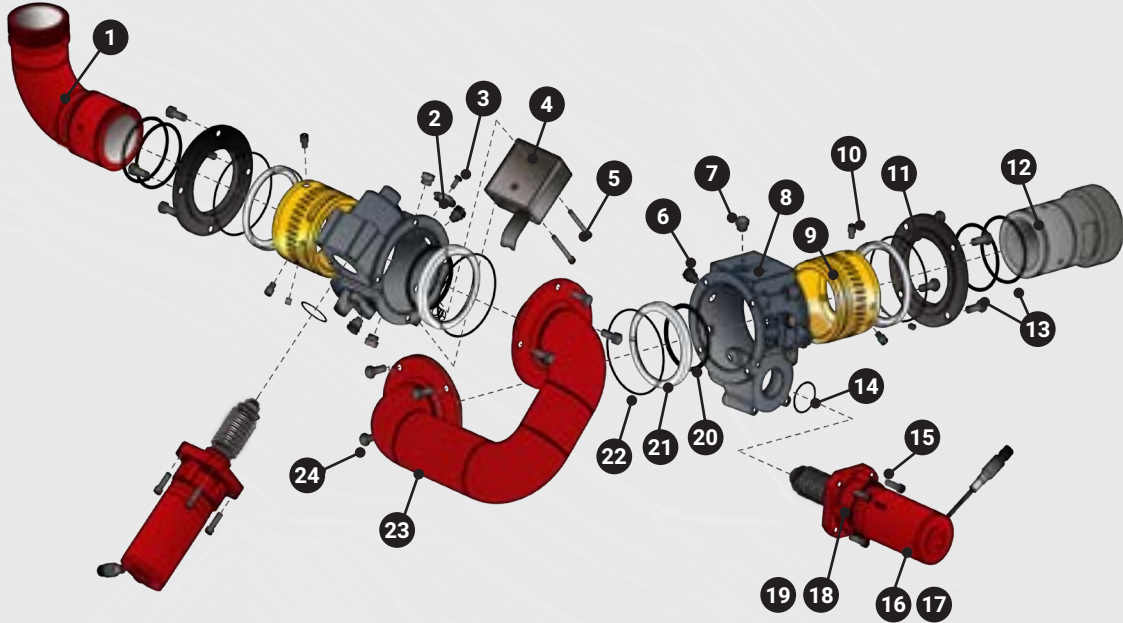
REV 000 8/2023

Mega Water Cannon, Electric, Remote

12 VDC Part No. 304653 | 24 VDC Part No. 304652

- 24 VDC motors
- 450 PSI Drive Motors
- 2.5 inch waterway

- Severe duty construction
- Wear resistant polymer bearings
- Heavy duty shafts & gears



25 JOINT REBUILT KIT-305141
ITEMS: 6, 7, 10, 13, 14, 20, 21, 24



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	304653	Electric, 12 VDC Water Cannon	1	12	304629	Inlet Assembly	1
	304652	Electric, 24 VDC Water Cannon	1	13	304639	O-Ring Seal, Outer Joint*	4
1	304627	Outlet Elbow	1	14	304897	O-Ring Seal Drive*	2
2	304651	Speed Clip	1	15	304635	Motor Fastener	8
3	304650	Speed Clip Fastener	1	16	307585	Water Cannon Motor, Electric 24 VDC	2
4	304620	Wiring Harness	1	17	307584	Water Cannon Motor, Electric 12 VDC	2
5	304641	Junction Box Fastener	2	18	304618	Motor & Gear Assembly, Electric 24 VDC	2
6	304632	Rotation Stop*	4	19	304619	Motor & Gear Assembly, Electric 12 VDC	2
7	304633	Plug*	6	20	304638	O-Ring Seal, Inner Joint*	2
8	304643	Swivel Housing	2	21	304637	Bearing*	4
9	304630	Worm Gear	2	22	304636	O-Ring Seal, Flange	4
10	304642	Stud*	6	23	304628	Gooseneck Assembly	1
11	304631	Joint Cap	2	24	304640	Swivel Fastener*	16
				25	305141	Joint Rebuilt Kit (Rebuilds 2 Joints)	1

* VDC-Volts Direct Current.

* Nozzle not included. Please look at our nozzle section to purchase a nozzle.

REV 000 8/2023

Buy parts online www.megacorpinc.com or by calling Mega Parts Sales @ 1-800-345-8889.

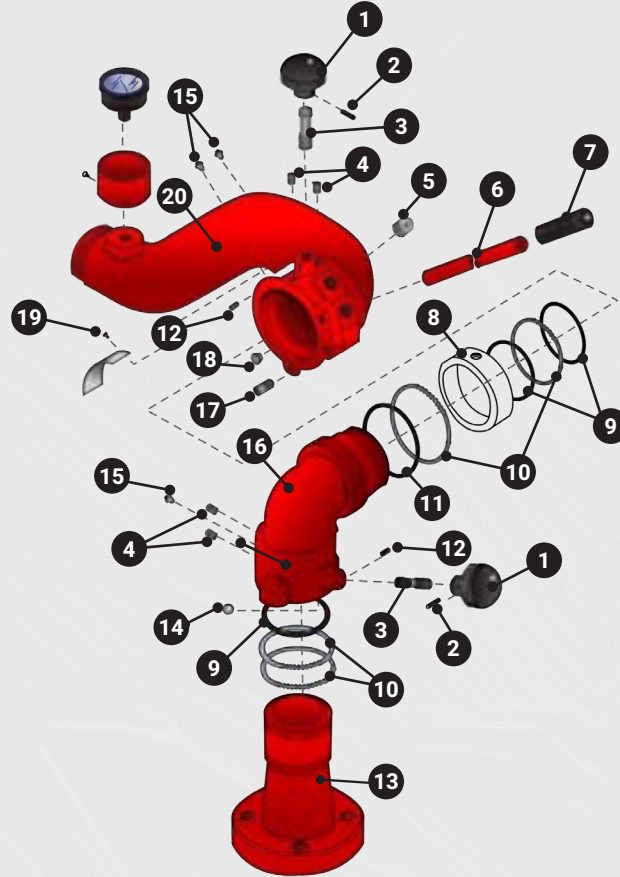
WATER CANNONS **3-9**

Mega Water Cannon, Manual

Part No. 304612

Mega Manual Water Cannon is used where no power is available.

- Stainless Steel
- Fire Suppression
- Worker Friendly; Easy to Use
- Up to 1250 gpm flow
- 3 inch waterway
- Equipment wash down
- Agricultural Applications
- Heavy duty shafts & gears



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	304612	Manual Water Cannon		12	304908	Swivel Fastener	2
1	304900	Brake Knob	2	13	304918	Inlet Assembly	1
2	304901	Roll Pin	2	14	304917	Brake Ball	1
3	304902	Brake Shaft	2	15	304911	Grease Fitting	4
4	304903	Plug	4	16	304916	Swivel Joint Elbow	1
5	304905	Plug	1	17	304910	Rotation Stop	1
6	304904	Handle	1	18	304909	Plug	1
7	304907	Handle Grip	1	19	304920	Swivel Fastener	1
8	304914	Brake Band	1	20	304904	Outlet Elbow	1
9	304912	O-Ring Seal, Joint	3				
10	304913	Ball Bearing, Joint	4				
11	304915	O-Ring Seal, Joint	1				

* Nozzle not included. Please look at our Mega manual water cannon accessories section for available nozzles.

REV 000 8/2023

Available accessories for Mega Manual Water Cannon 304612

A variety of accessories are available for the Mega manual water cannon, allowing the customer to select components that best fit their specific application, be it fire fighting, equipment wash down, or agricultural uses.



Accessories Include:

ITEM	PART NO.	DESCRIPTION	QTY
1	300656	Nozzle, Manual Adjustable Hydraulic, Foam Eduction	1
2	300087	Nozzle, 1 inch Standard Straight Bore with Built-in Stream Shaper	1
3	300091	Nozzle, 1.5 inch Standard Straight Bore with Built-in Stream Shaper	1
4	300822	Grid for Standard Straight Bore Nozzle	1
5	304299	Short Stream Shaper	1
6	000194	3 inch Flange Weld	1
7	350029	Hex, Nut, 5/8 inch	8
8	350006	Washer, Flat, 5/8 inch	16
9	355458	Cap Screw, 5/8 inch X 4 1/4 inch	8
10	300030	Butterfly Handle, 3 inch	1
11	300104	Butterfly Valve, 3 inch	1

REV 000 8/2023

* Nozzle not included. Please look at our nozzle section to purchase a nozzle.

Standard Nozzles for Mega Water Cannon

The water cannon system is a versatile tool suitable for many different mining and construction applications. The straight bore nozzles produce a straight stream of water able to reach long distances. The water cannon will obtain maximum reach when the nozzle is at about 32 degrees of elevation with the chassis RPM at high idle.

Standard Nozzles



300087

1 inch Standard Straight Bore

- On-Highway truck applications (low pressure systems)
- Single stream
- 2.5 inch NH connection
- Requires purchase of stream shaper



300091

1.5 inch Standard Straight Bore

- Single stream
- 2.5 inch NH connection
- Requires purchase of stream shaper

Performance Enhancements

When even greater reach is needed (for high-wall, stockpile, or fire fighting operations) Mega recommends stream shapers for use with the straight bore nozzles. These stream shapers straighten the water flow before it exits the nozzle, resulting in a smoother stream that travels further.



300822

Grid For Standard Straight Bore Nozzle

- Single stream
- Slip-in stream shaper insert straightens water flow & increases distance
- 2.5 inch NH connection



304299

Short Stream Shaper

- Increases performance of straight bore nozzles
- Shapes water stream to produce efficient flow
- In-line Short increases reach

Specialty Nozzles for Mega Water Cannon

Mega offers a variety of specialty, adjustable nozzles for use with both hydraulic and electric water cannons. These nozzles allow the customer to adjust a water cannon's spray pattern and reach to meet their specific application requirements. Contact our Parts Sales or Product Support Department for assistance in selecting the right nozzle for your water cannon.

Hydraulically Adjustable Nozzles For Hydraulic Drive Mega Water Cannon

306755



Fan To Stream

- 140 feet reach
- Adjustable fan pattern
- Useful for wash down operations

305875



Fog To Stream

- Hydraulic Adjustment
- Variable Fog Pattern
- 150 feet stream reach

305876



Fog To Stream With Foam Education

- Hydraulic Adjustment
- Variable Fog Pattern
- 150 feet stream reach
- Adjustable fog pattern with foam (1, 3 and 6% proportioning)
- System does not include foam agent
- Requires foam agent system

Electrically Adjustable Nozzles For Mega Electric Drive Water Cannon

305151



Fan To Stream

- 140 feet reach
- Adjustable fan pattern
- Useful for wash down operations

305150



Fog To Stream

- 165 feet reach
- Adjustable fog pattern

305149



Foam Education

- 150 feet reach
- Adjustable fog pattern with foam (1, 3 and 6% proportioning)
- System does not include foam agent
- Requires foam agent system

Manual Adjustable Nozzle For Mega Hydraulic and Electric Drive Water Cannon

300656



Foam Education

- Manually adjustable fog pattern
- Foam education (1, 3 and 6% proportioning)
- 150 feet stream reach
- Adjustable fog pattern with foam (1, 3 and 6% proportioning)
- System does not include foam agent
- Requires foam agent system
- Requires foam agent system

MEGA WATER CANNON KITS



THE IDEAL SOLUTION

When you need to add, replace, or upgrade a water cannon system, Mega's water cannon kits are the ideal solution. Our kits are available for both hydraulic and pneumatic systems and can be adapted for either a partial or complete installation on any prime mover or tank.

All of our kits come with complete installation instructions and our legendary product and customer support that Mega is known for. Please call Mega part sales at 505.345.2661 for any questions.



Mega Hydraulic Water Cannon Kit

Part No. 045026

The Mega Hydraulic Water Cannon kit comes with a detailed installation instruction manual complete with drawings, support parts list, and an illustrated parts breakdown. The base kit includes a Mega Hydraulic Water Cannon, hydraulic control valve, all required electrical cabling, hydraulic hosing, and mounting flanges. See below for optional components that can be added to customize the kit order for customer specifications. Please call Mega part sales at 505.345.2661 for any questions or inquiries.



Kit Includes:

ITEM	DESCRIPTION
045026	Mega Hydraulic Water Cannon Kit
1	Hydraulic Water Cannon Installation Instructions
2	Mega Hydraulic Water Cannon*
3	Solenoid Assembly
4	3 inch Weld-On Flange
5	3 inch Flange Adapter
6	Mounting Hardware
7	All Hydraulic Hosing

* Nozzle not included. Please look at our nozzle section to purchase a nozzle.

The base kit does not include a butterfly valve or joystick control box, however these parts may be ordered separately to complete the installation for customer specifications. If necessary please order either or both of the two parts below along with the base hydraulic water cannon kit part no.045026.



011454

Hydraulic Butterfly Valve Assembly



052080

Hydraulic Joystick Control Box

Mega Electric Water Cannon Kits

12 VDC Part No. 043386 | 24 VDC Part No. 040929

Mega electric water cannons are available in either 12 or 24 volt (VDC) models. Mega Water Cannons are designed for severe duty applications and feature stainless steel waterways and heavy duty polymer bearings. See below for optional components that can be added to customize the kit order for customer specifications. Please call Mega part sales at 505.345.2661 for any questions or inquiries.



Kit Includes:

ITEM	DESCRIPTION
043386	12 VDC Mega Electric Water Cannon Kit
040929	24 VDC Mega Electric Water Cannon Kit
1	Electric Water Cannon Installation Instructions
2	Mega Electric Water Cannon*
3	All Electrical Cabling
4	Mounting Hardware
5	3 inch Flange Adapter
6	3 inch Weld-on Flange
7	Logic Control

* Nozzle not included. Please look at our nozzle section to purchase a nozzle.

The base kit does not include a butterfly valve or joystick control box, however these parts may be ordered separately to complete the installation for customer specifications. If necessary please order either or both of the two parts below along with either the base 12 VDC part no. 043386 or the 24 VDC part no. 040929 Mega Electric Water Cannon kit. Depending on voltage please order the pneumatic butterfly valve specific to either the 12 VDC or 24 VDC system.



029860

Pneumatic Butterfly Valve Assembly
FOR 12 VDC
ELECTRIC WATER CANNON



040556

Pneumatic Butterfly Valve Assembly
FOR 24 VDC
ELECTRIC WATER CANNON



052083

Electric Joystick Control Box

Mega Hydraulic Water Cannon Retro Kit

Part No. 039885

The hydraulic water cannon retro kit is designed to replace an older model hydraulic water cannon with the current system using the current joystick and butterfly valve. For a complete hydraulic water cannon kit please reference part no. 045026. Please call Mega part sales at 505.345.2661 for any questions.



Kit Includes:

ITEM	DESCRIPTION
039885	Mega Hydraulic Water Cannon Retro Kit
1	Hydraulic Water Cannon Installation Instructions
2	All Hydraulic Hosing
3	Mega Hydraulic Water Cannon*
4	All Hydraulic Parts Required
5	3 inch Flange Adapter

* Nozzle not included. Please look at our nozzle section to purchase a nozzle.

Mega Multi-Purpose Water Cannon

We now offer a Mega Multi-Purpose Water Cannon for customers who need an affordable, reliable electric water cannon for non-heavy duty applications. Help fight fires with a Mega Multi-Purpose Water Cannon.



ITEM	PART NO.	DESCRIPTION
1	307200	Forestry Electric Water Cannon
2	307201	*Electric Adjustable Nozzle
3	307202	Electric Ball Valve, 2 inch
4	307286	Cabling 30 feet
5	307359	Cabling, 5 Feet
6	307205	Quick Disconnect, 2 inch
7	307203	Joystick Control

* Nozzle not included.

Mega Water Cannon FAQ Section

What is included in the hydraulic water cannon kit?

Yes. Mega offers the following kits:

- Hydraulic Water Cannon Kit (P/N 045026)
- Hydraulic Water Cannon Retrofit Kit (P/N 039885)
- Electric Water Cannon Kit 12 VDC (P/N 043386)
- Electric Water Cannon Kit 24 VDC (P/N 040929)

Some water cannon components are not included with the base kits. Please contact our Mega Parts Sales Team at 505.345.2661 for additional information.

What nozzles should I choose to complete my water cannon kit?

Mega offers a variety of high-quality nozzles for use with our water cannons. For details, please refer to our nozzle section or contact our Mega Parts Sales Team for assistance.

I need a nozzle to complete my water cannon kit. What nozzle should I choose?

Mega offers a variety of high-quality nozzles for use with our water cannons. For details, please refer to our nozzle section. Contact Parts Sales at 1.800.345.8889 for assistance in determining which nozzle is best for your specific system.

STOP FIRES WITH A MEGA FOAM AGENT SYSTEM



AN EFFECTIVE
FIRE SUPPRESSION
SOLUTION FOR
CONSTRUCTION
AND MINING
ENVIRONMENTS



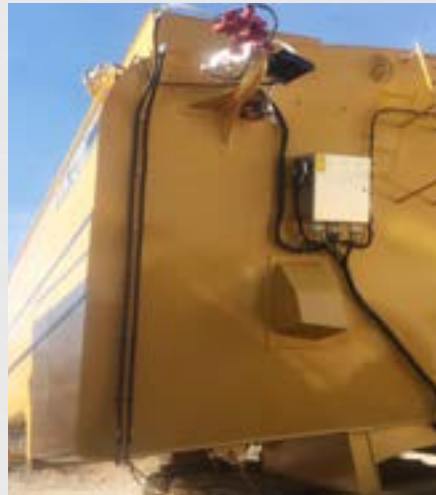
MEGA FOAM AGENT SYSTEM

The Mega foam agent system provides an effective fire suppression solution for construction and mining environments. The system is compatible with any class of foam that can be nozzle-aspirated and consists of a stainless steel (304 grade) foam concentrate tank, water cannon, and foam education nozzle. The foam agent system also includes sight gauges on the reservoir tank, mounting brackets and hardware, supply hose and shut-off valve, and ground-level fill. Our medium-expansion nozzles allow for adjustable foam percentages of 1%, 3%, and 6% with possible flow rates of 350, 500, and 750 GPM.

Mega's foam system can be ordered as an option on a new Mega water tank or purchased as an after-market kit for installation on a Mega tank. The kit may also be added on to other manufacturer's water tanks.



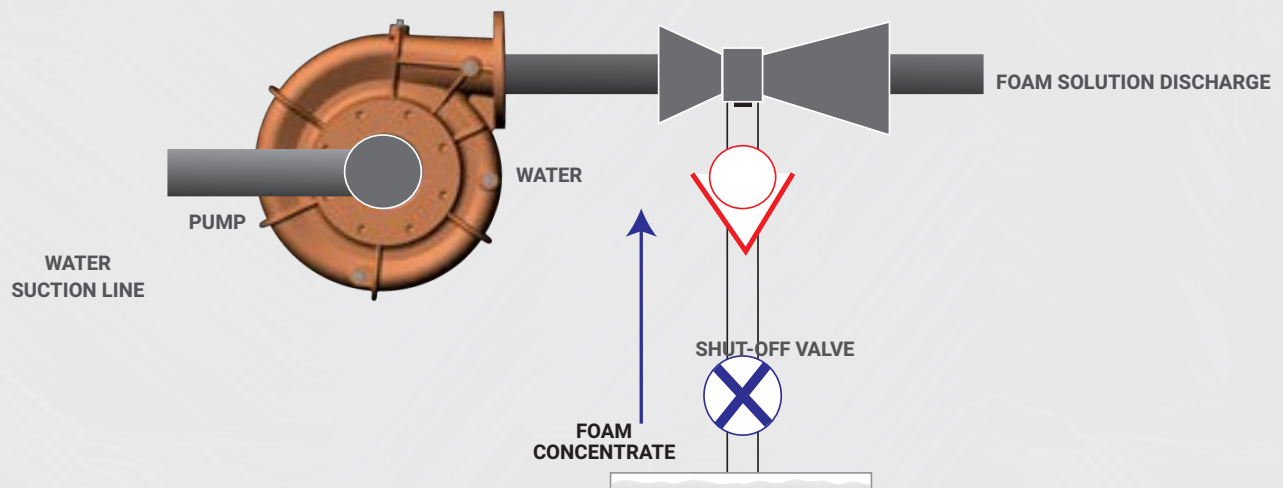
Foam agent system



Ground-level fill

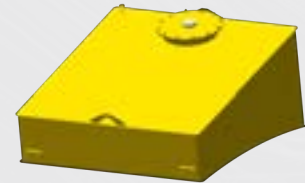
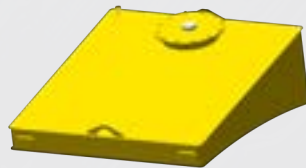
How The Foam Agent System Works

Pressurized water flows through a narrowed section waterway in the educator integrated in the air-aspirated nozzle attached to the Mega water cannon. This creates an area of negative pressure that draws foam concentrate from a foam concentrate tank into the nozzle throat. The concentrate is mixed with water and air to create foam.



AVAILABLE FOAM AGENT TANKS

The Mega foam agent tank is a stainless steel tank mounted in the forward upper portion of the water tank. The holding tank contains a supply tube that extends to the bottom of the tank. A flexible hose is connected to the supply pipe that is routed to the foam agent shut-off valve. The tank also contains a pressure/vacuum cap which keeps foreign matter out of the tank while providing for pressure relief and air displacement during temperature changes.



60 GALLON FOAM TANK	
DISCS CONTROL SYSTEMS	
Part Number	Description
055527	Foam Tank - Long
055528	Foam Tank - Wide
ELECTRO-HYDRAULIC CONTROL SYSTEMS	
Part Number	Description
051219	Foam Tank - Long
051229	Foam Tank - Wide

120 GALLON FOAM TANK	
DISCS CONTROL SYSTEMS	
Part Number	Description
055529	Foam Tank - Standard
ELECTRO-HYDRAULIC CONTROL SYSTEMS	
Part Number	Description
051239	Foam Tank - Standard

200 GALLON FOAM TANK	
DISCS CONTROL SYSTEMS	
Part Number	Description
055530	Foam Tank - Left Side
055531	Foam Tank - Right Side
ELECTRO-HYDRAULIC CONTROL SYSTEMS	
Part Number	Description
051249	Foam Tank - Left Side
052394	Foam Tank - Right Side

Performance

The table shows consumption rates and duration of foam suppression concentrate and water based upon a standard flow rate 1893 lpm/500 gpm and 3% foam proportioning.

FOAM CONCENTRATE LITERS/GALLONS	WATER LITERS/GALLONS	DURATION
228L/60g	7571/2000	4 minutes
455L/120g	15,142/4000	8 minutes
757L/200g	25,362/6700	14 minutes

*Always follow the foam concentrate manufacturer's recommendations for proper storage of the foam concentrate.



FIRE SUPPRESSION

For decades, foam concentrates have been used extensively to combat surface fires in the mining, construction, and forestry industries. Foam concentrates change how water reacts with fuels, drastically increasing the water's effectiveness in suppressing and containing fires. The use of foam reduces water consumption, suppresses fires more quickly, and more effectively prevents the fire from spreading to nearby combustible materials. No matter how large or small the operation, the safety of everyone on site depends on adequate preparation for an outbreak of fire in any class of fuel.

TIRE AND EQUIPMENT FIRES

Tire and equipment fires are a dangerous and costly hazard in the mining and construction industries. Tire fires in particular are extremely difficult to extinguish, as the fire can smolder deep within the rubber where water cannot reach. The presence of an on-call, mobile fire suppression system is essential for the safety of any mine or construction site, to rapidly contain, mop up, and minimize the damage these fires cause. Mega's fire suppression system is designed to be installed on water trucks, creating a multi-purpose mobile fire response unit without needing to re-purpose or purchase a dedicated fire suppression vehicle.



HYDROCARBON FUEL

Lighter than water and highly flammable, hydrocarbons present an extreme fire hazard. Hydrocarbon fires are capable of reaching temperatures in excess of 1000°C (1832°F) in as little as 10 minutes if left unchecked. Mine and construction sites must be prepared to respond immediately in order to contain a hydrocarbon fuel fire and minimize its destructive potential.

FOREST FIRES

Mega's Forestry Monitor (Water Cannon) was designed specifically for brush and wildfire fire fighting. A high speed electric drive motor allows for swift positioning and high accuracy. The forestry monitor comes with a mid-flow adjustable fog nozzle that can be adapted for use with a foam education system. Additionally, Mega's vertical side spray heads (VSS*) discharge vertical fans of water that are ideal for reinforcing black lines.

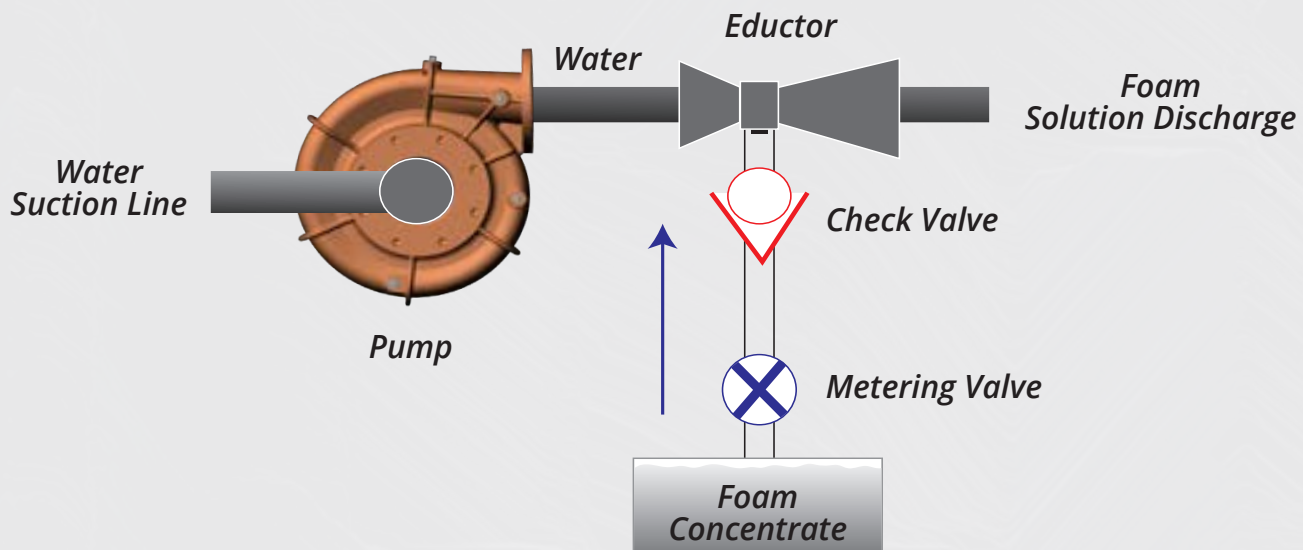
*Vertical Spray Heads



MEGA FOAM EDUCATION SYSTEM FAQ SECTION

Does Mega offer a foam fire suppression system?

Mega's foam fire suppression system is a foam education system. Pressurized water flows through a narrowed section waterway in the eductor (an air-aspirated nozzle) on the Mega water cannon. This creates an area of negative pressure that draws foam concentrate from a foam concentrate tank into the nozzle throat. The concentrate is mixed with water to create foam. Mega foam fire suppression systems can be used to address Class A and B fires.



What are Class A fuels?

Solid, combustible materials that are not metals are considered to be Class A fuels. Examples of Class A fuels are paper, wood, cloth, rubber, plastics and trash.

What is Class A foam?

Class A foam is created by mixing Class A foam concentrate with water, creating a solution of bubbles that is effective at suppressing Class A fuel fires. This solution has a lower density than water and contains 'wetting agents' that reduce the surface tension of the water and increase its heat absorption potential. This allows the solution to penetrate and soak the burning fuel more quickly and efficiently than plain water. Class A foam is commonly said to "make water wetter".



Ex. of a class A fire

What are Class B fuels?

Combustible non-metal liquids are considered to be Class B fuels. Examples of Class B fuels are gasoline, oil, diesel fuel and grease.

What is Class B foam?

Class B foam is created by mixing Class B foam concentrate with water to create a foam solution effective at suppressing Class B fuel fires. Instead of soaking into the burning fuel (Class B fuels are liquids), Class B foam forms a film or blanket on top of the fuel. This suffocates the fire by depriving it of oxygen. Class B foam should not be used for pressurized gas or three-dimensional Class B fires.

Pressurized gases are often stored as liquids, but become vapors at room temperature and atmospheric pressure. Class B foam solutions are designed to blanket flammable fuel and smother the fire, but the vapor pressure of pressurized gases is much too high for this to be possible.

Three-dimensional fires are Class B fires in which fuel is discharged from an elevated or pressurized source, creating a pool of combustible fuel on a lower surface. Because of the geometry of these fires, foam solutions cannot blanket the fuel to smother the fire.



Can Class A foam be used to suppress Class B fuel fires, and vice versa?

No. Class A and Class B foams interact very differently with fuel, and they are most effective when used against their respective classes of fuel fires. Class A foam attracts carbon and reduces the surface tension of water, allowing it to penetrate fuels more easily. This is more effective on solid fuels than on liquid fuels. Class B foam repels carbon and forms a film on top of the fuel instead of soaking in, making it very effective at smothering liquid fuels. It is highly recommended for mining and construction sites to have both Class A and Class B foam on hand.

Can Mega foam suppression systems be used to combat Class C and D fires?

No. Class C fires are electrical fires. Water is an excellent conductor of electricity, therefore it is extremely dangerous to use water or water-based foam to combat Class C fires. Class D fires involve combustible metals such as magnesium, sodium, and potassium. These metals are highly reactive with water and water-based foam should not be used to suppress Class D fires.

How do I store foam concentrate?

Always refer to the foam concentrate manufacturer's specifications and recommendations for storage. Mega's foam concentrate tank is made with 300 series grade stainless steel

Thank You

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EQUIPMENT >

700 Osuna Rd. NE

PARTS >

Albuquerque, NM 87113

SUPPORT >

www.megacorpinc.com

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THERE'S WORK TO BE DONE

MEGA

CORP.

WORLDWIDE

BUTTERFLY VALVES

Mega carries manual, hydraulic and electric-pneumatic butterfly valves for our water tank components as well as for our Mega Portable Tanks (MPT's).



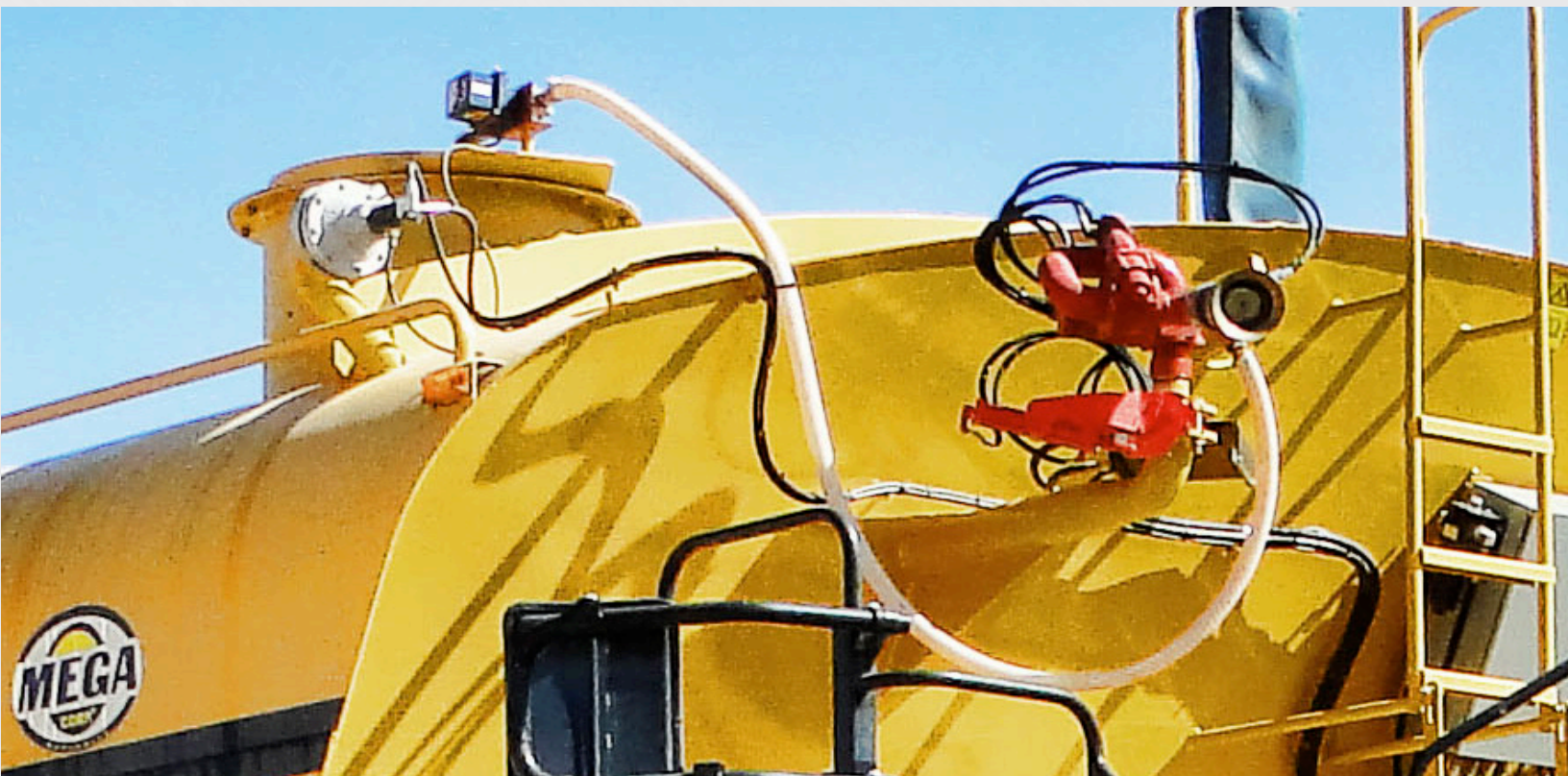
GENUINE MEGA



BUTTERFLY VALVES

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BFV BUTTERFLY VALVES



Mega carries a full line of severe-duty butterfly valves (BFVs) to support all of our products. If a Mega product uses a butterfly valve, we carry that valve in stock for your convenience and support parts needs.

Don't have a Mega water tank but still need a high-quality butterfly valve that will last in harsh waters? Give our Parts Sales Department a call at 505-345-2661. With hydraulic, pneumatic, and electro-pneumatic actuated butterfly valves from 3-inch to 10-inch diameters, we have your solution.



Hydraulic BFV Assembly

Our high-quality hydraulic butterfly valve assemblies are available in several sizes to meet a variety of applications. The seals in the butterfly valve are designed for use in both normal and harsh waters.

The butterfly valve is self-sealing to standard flanges (requires no gaskets). The hydraulic cylinder is designed to operate the valve dependably with 550 psi or less of hydraulic pressure.



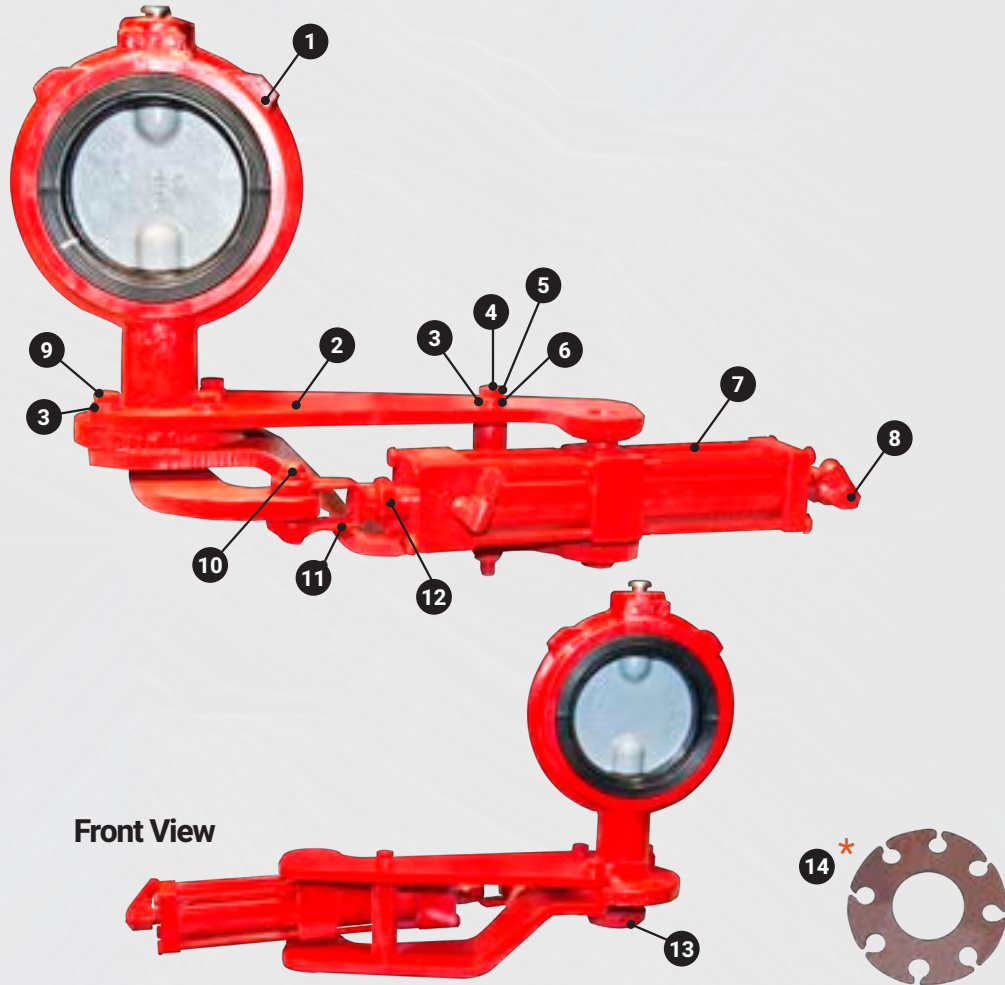
Electro-Pneumatic BFV Assembly

The electro-pneumatic butterfly valve available in several sizes to meet a variety of applications. The seals in the butterfly valve are designed for use in both normal and harsh waters.

The butterfly valve is self sealing to standard flanges (requires no gaskets). The actuator is controlled with an on-board 12 or 24 VDC solenoid. The hydraulic cylinder is designed to operate the valve dependably with 95 psi or less of hydraulic pressure.

Butterfly Valve Assembly, 3 inch Part No. 011454

• 3 inch • Hydraulic • Water Cannon

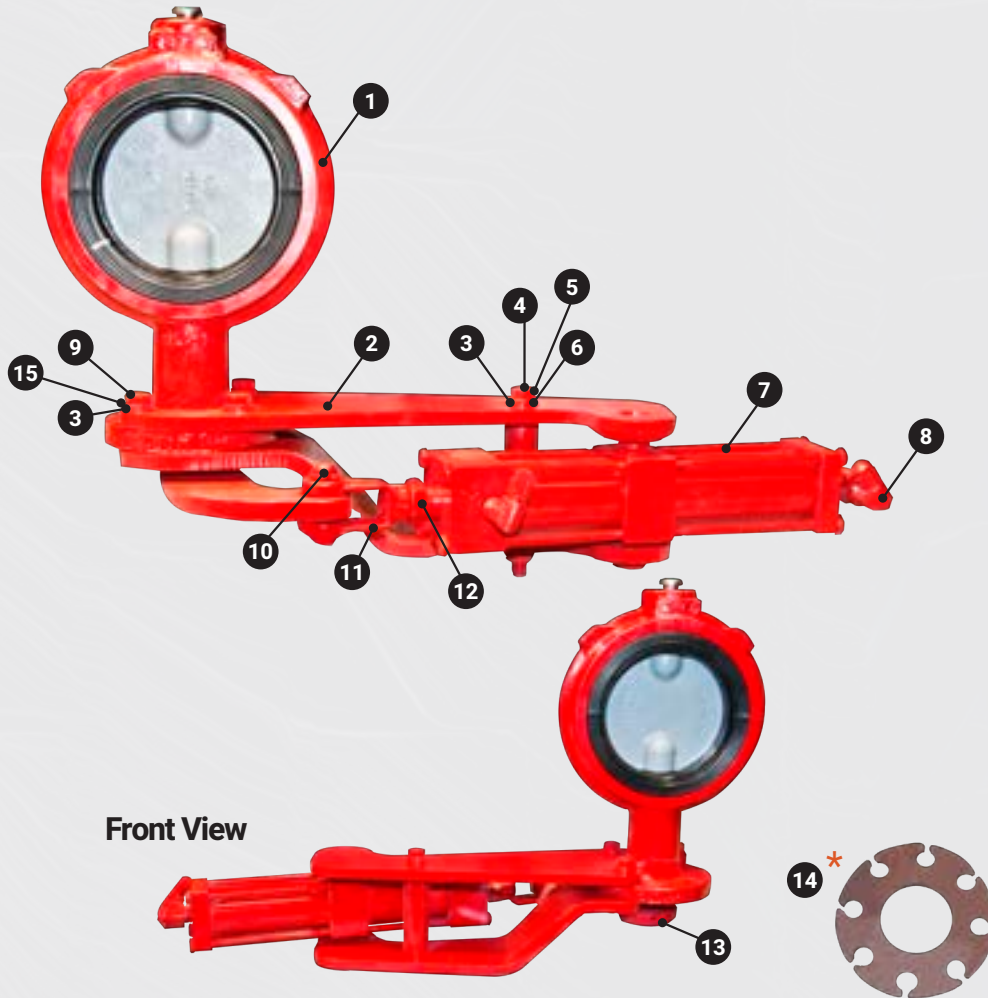


ITEM	PART NO.	DESCRIPTION	QTY
	011454	Butterfly Valve Assembly, 3 inch	1
1	300030	Valve, Butterfly, 3 inch	1
2	043987	Bracket, Butterfly Assembly	1
3	350003	Washer, Flat, 3/8 inch	8
4	350025	Nut, Hex 3/8 inch-16 UNC	1
5	350158	Screw, Cap 3/8 inch-16 UNC X 4.00	1
6	350016	Lock Washer, 3/8 inch	1
7	300096	Hydraulic Cylinder	1
8	352436	Hydraulic Fitting	2
9	350147	Cap Screw 3/8 inch X 1 1/2 inch	3
10	300099	Pin, Clevis	1
11	300467	Clevis, 1/2 inch X 5/8 inch UNF	1
12	354532	Nut, Hex 5/8 inch-18 UNF	1
13	352954	Screw, Set, 1/4-20 X 3/8 inch	1
14	000194	Weld-On Flange, 3 Inch ID, 8 Hole*	1

* Weld-on flange not included; purchase separately.
REV 00C 10/05/2018

Butterfly Valve Assembly, 4 inch Part No. 029825

• 4 inch • Hydraulic • Dump Bar



Front View

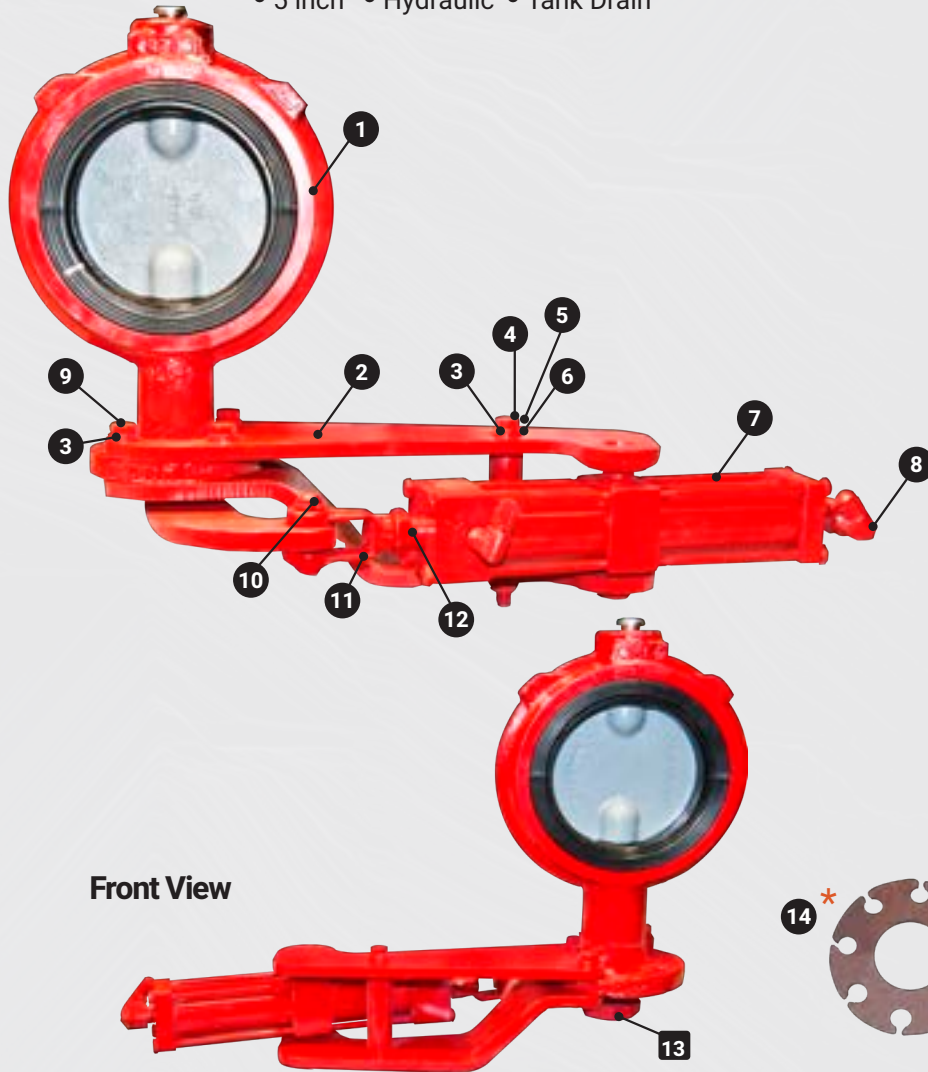
ITEM	PART NO.	DESCRIPTION	QTY
	029825	Butterfly Valve Assembly, 4 inch	1
1	300031	Valve, Butterfly, 4 inch	1
2	043987	Bracket, Butterfly Assembly	1
3	350003	Washer, Flat, 3/8 inch	2
4	350025	Nut, Hex 3/8 inch-16 UNC	1
5	350158	Screw, Cap 3/8 inch-16 UNC X 4.00	1
6	350016	Washer, 3/8 inch	1
7	300096	Hydraulic Cylinder	1
8	352436	Hydraulic Fitting	2
9	350147	Cap Screw 3/8 inch X 1 1/2 inch	3
10	300099	Pin, Clevis	1
11	300467	Clevis, 1/2 inch X 5/8 inch UNF	1
12	354532	Nut, Hex 5/8 inch-18 UNF	1
13	352954	Screw, Set, 1/4-20 X 3/8 inch	1
14	000227	Weld-On Flange, 4 inch*	1
15	354511	Washer, SAE GR8 3/8"	3

* Weld-on flange not included; purchase separately.

REV 00H 08/01/2019

Butterfly Valve Assembly, 5 inch Part No. 036744

• 5 inch • Hydraulic • Tank Drain



Front View

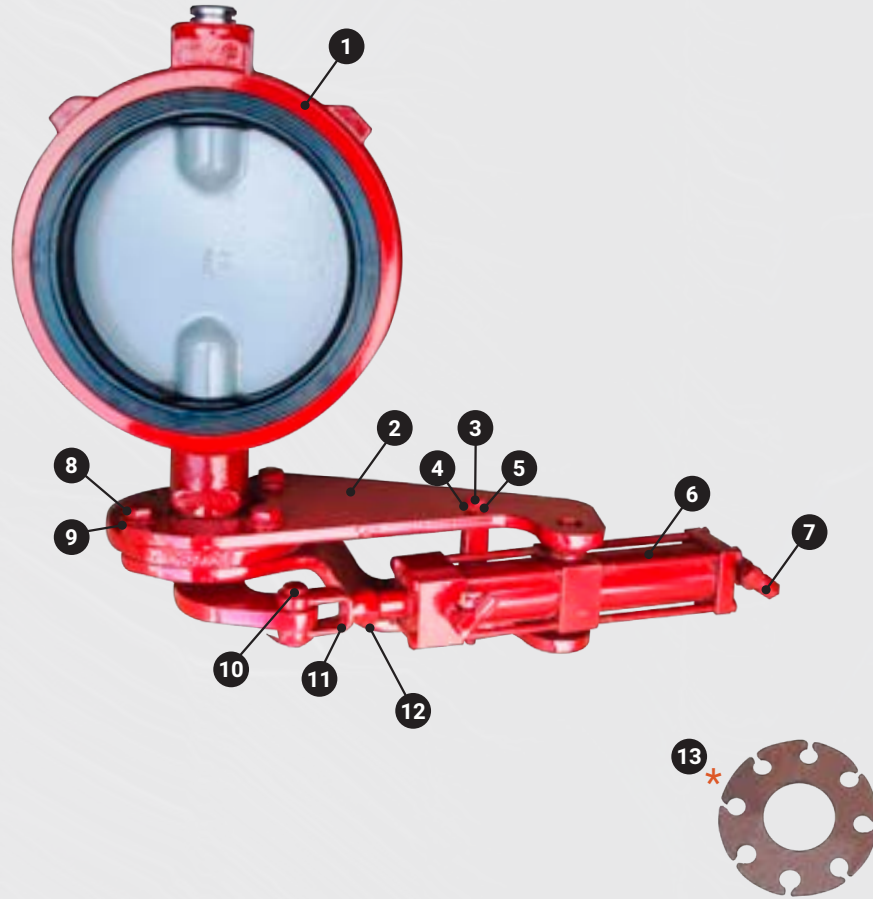
ITEM	PART NO.	DESCRIPTION	QTY
	036744	Butterfly Valve Assembly, 5 inch	1
1	300032	Valve, Butterfly, 5 inch	1
2	043987	Bracket, Butterfly Assembly	1
3	350003	Washer, Flat, 3/8 inch	5
4	350025	Nut, Hex 3/8 inch-16 UNC	1
5	350158	Cap Screw, 3/8 inch-16 4.50 inch	1
6	350016	Washer, 3/8 inch	1
7	300096	Hydraulic Cylinder	1
8	352436	Hydraulic Fitting	2
9	350146	Bolt, 3/8 inch-16 x 1.25 inch, M3 pump	3
10	300099	Pin, Clevis	1
11	300467	Clevis, 1/2 inch X 5/8 inch UNF	1
12	350046	Nut, Hex 5/8 inch-18 UNF	1
13	352954	Screw, Set, 1/4-20 X 3/8 inch	1
14	000198	Weld-On Flange, 5 inch*	1

* Weld-on flange not included; purchase separately.

REV 00E 8/01/2019

Butterfly Valve Assembly, 8 inch Part No. 041368

• 8 inch • Hydraulic • Tank Drain



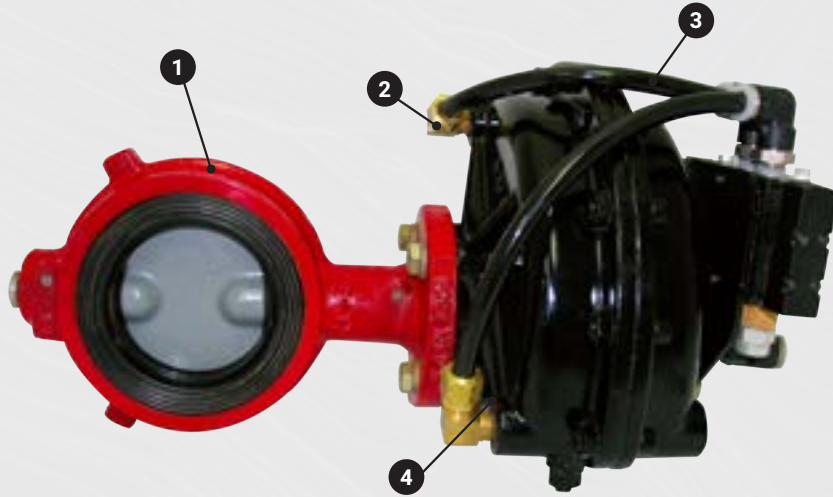
ITEM	PART NO.	DESCRIPTION	QTY
	041368	Butterfly Valve Assembly, 8 inch	1
1	300035	Valve, Butterfly, 8 inch	1
2	041369	Bracket, Butterfly Assembly	1
3	350158	Cap Screw, 3/8 inch-16 x 4.50 inch	1
4	350003	Flat Washer, 3/8 inch	1
5	350025	Nut, 3/8 in, USS GR8	1
6	300096	Hydraulic Cylinder	1
7	352436	Hydraulic Fitting	2
8	350231	Cap Screw, 1/2 inch X 1 1/2 inch GRB	3
9	350005	Washer, Flat, 1/2 inch	3
10	300099	Pin, Clevis	1
11	300467	Clevis, 1/2 inch X 5/8 inch UNF	1
12	354532	Nut, Hex 5/8 inch-18 UNF	1
13	000194	Weld-On Flange, 3 Inch ID, 8 Hole*	1
14	352954	Set Screw, 1/4-20 X 3/8 inch	1

* Weld-on flange not included; purchase separately.

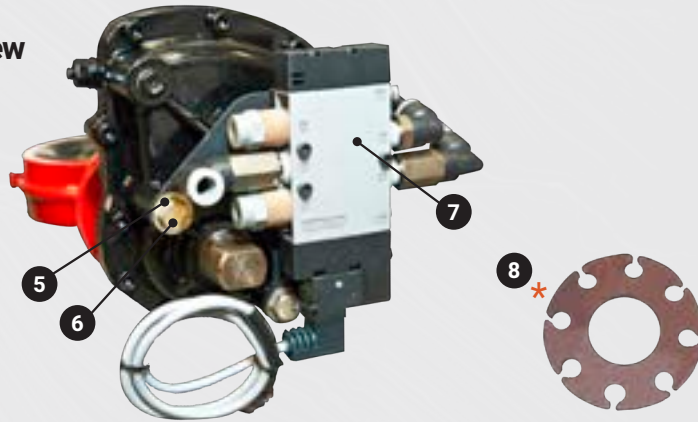
REV 00F 8/01/2019

Butterfly Valve Assembly, Electric/Air, 3 inch Part No. 040556

• 3 inch • 24 VDC • Water Cannon



Side View



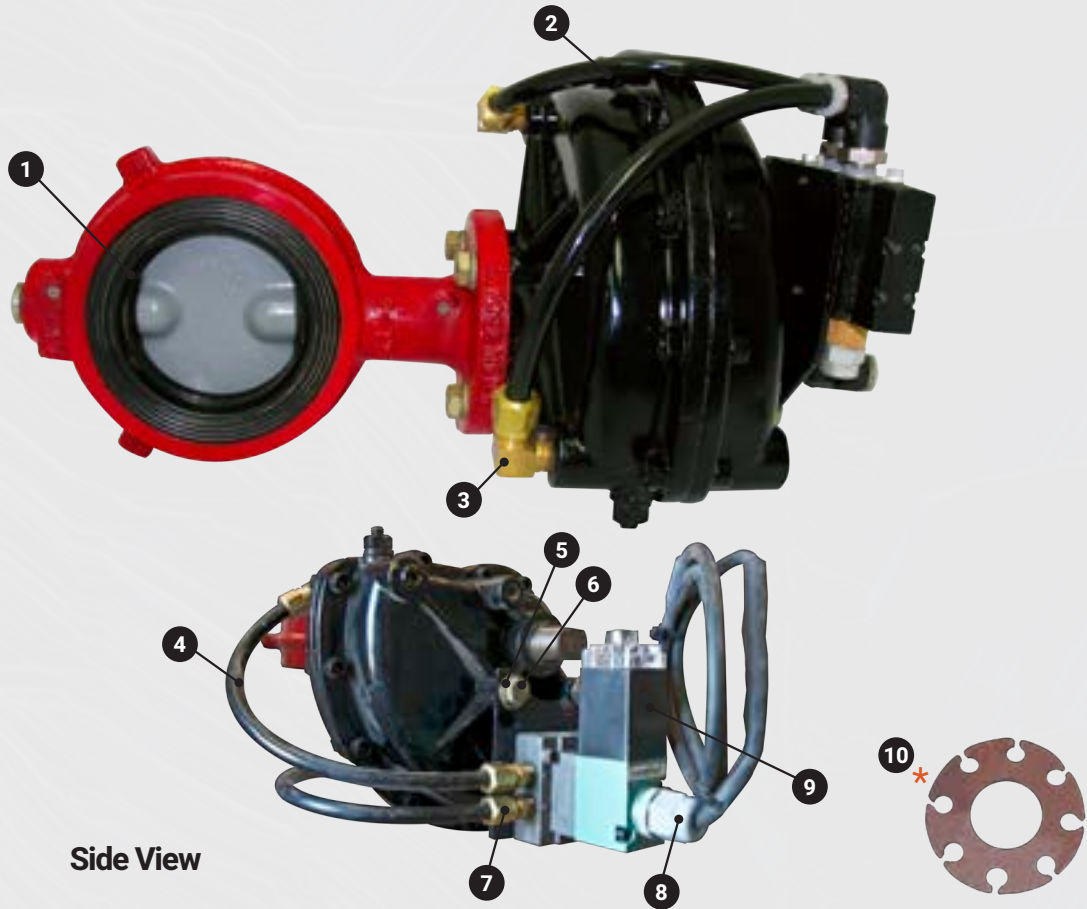
ITEM	PART NO.	DESCRIPTION	QTY
	040556	Butterfly Assembly, 3 inch	1
1	300030	3 inch, Butterfly Valve	1
2	304942	Polyethylene Tubing 3/8 X 36 inches	1
3	300584	Air Actuator	1
4	351082	Male EL. 90° 3/8 X 1/4	2
5	350145	Cap Screw 3/8-16 X 1.00 inches	2
6	350003	Washer, Flat, 3/8 inch	2
7	305056	Solenoid Bank Assembly (1 Station)	1
8	000194	Weld-On Flange, 3 Inch ID, 8 Hole*	1

* Weld-on flange not included; purchase separately.

REV 00G 10/5/2018

Butterfly Valve Assembly, Electric/Air, 3 inch Part No. 029860

• 3 inch • 12 VDC



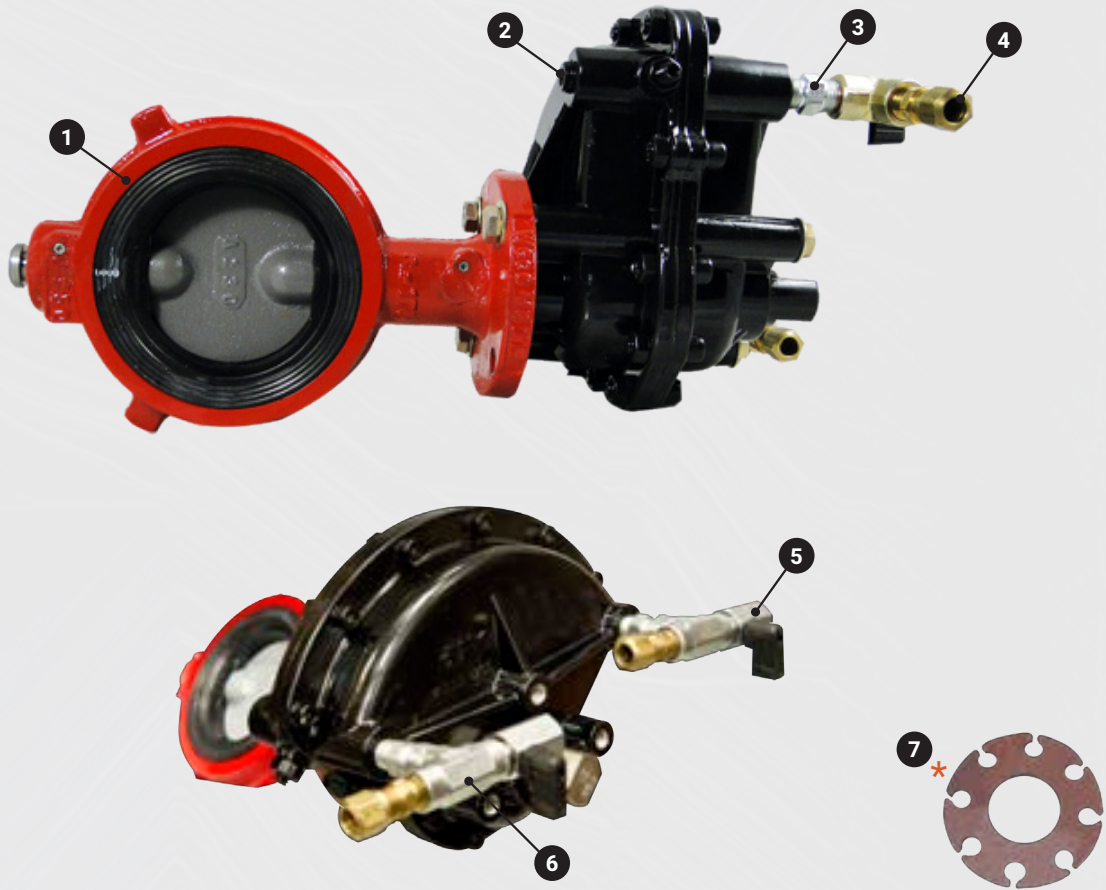
Side View

ITEM	PART NO.	DESCRIPTION	QTY
	029860	Butterfly Assembly, 3 inch	1
1	300030	3 inch Butterfly Valve	1
2	300584	Air Actuator	1
3	351083	Male Elbow 90° 3/8 inches X 1/4 inches	2
4	351141	Nylon Tubing, 3/8 inch, 8 inch long tube	1
5	350016	Washer, 3/8 inch	2
6	350145	Cap Screw 3/8 inch-16 X 1 GR5	2
7	351066	Male Connector 3/8 inches X 1/4 inches	3
8	303556	Strain Relief Connector 1/2 inch	1
9	301337	Solenoid (12 Volt)	1
10	000194	Weld-On Flange, 3 Inch ID, 8 Hole*	1

* Weld-on flange not included; purchase separately.
REV 002 10/5/2018

Butterfly Valve Assembly, With Air Actuator, 3 inch Part No. 036042

• 3 inch • Pneumatic • Water Cannon



ITEM	PART NO.	DESCRIPTION	QTY
	036042	Butterfly Assembly, Air Actuator, 3 inch	1
1	300030	3 inch Butterfly Valve	1
2	300584	Air Actuator	1
3	352467	Nipple, Pipe 1/4 inch	2
4	351066	Male Connector 3/8 inches X 1/4 inches	2
5	300296	Petcock, 1/4 inch	2
6	352856	Tee, Internal Pipe, 1/4 inch	2
7	000194	Weld-On Flange, 3 Inch ID, 8 Hole*	1
8	350145	Cap Screw, 3/18 - 16 GR8	3
9	350003	Flat Washer, 3/8 inch (Package of 25)	1

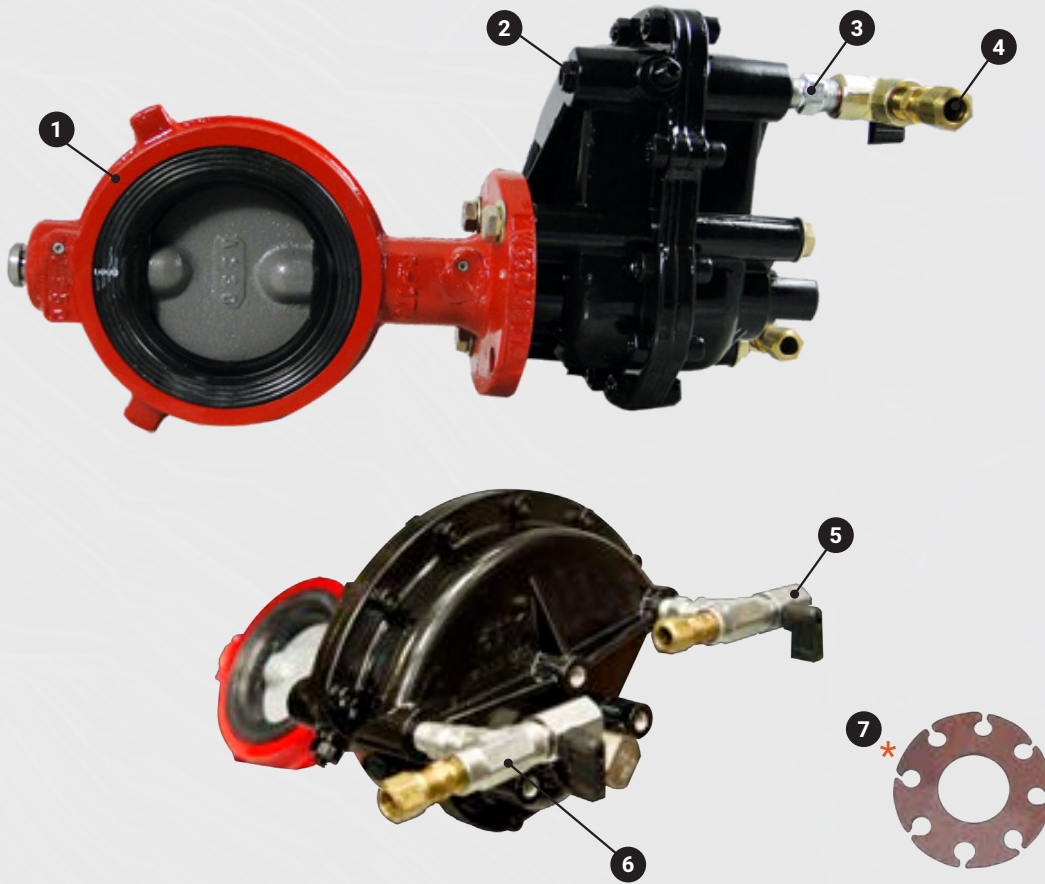
* Weld-on flange not included; purchase separately.

REV 00D 8/01/2019

Butterfly Valve Assembly, With Air Actuator, 4 inch

Part No. 036270

• 4 inch • Pneumatic • Dump Bar



ITEM	PART NO.	DESCRIPTION	QTY
	036270	Butterfly Assembly, Air Actuator, 4 inch	1
1	300031	4 inch Butterfly Valve	1
2	300036	Air Actuator	1
3	352467	Nipple, Pipe 1/4 inch	2
4	351066	Male Connector 3/8 inches X 1/4 inches	2
5	300296	Petcock, 1/4 inch	2
6	352856	Tee, Internal Pipe, 1/4 inch	2
7	000227	Weld-On Flange, 4 inch*	8

* Weld-on flange not included; purchase separately.

REV 00B 8/01/2019

Butterfly Valve for MPT-Mega Portable Stand Tank, 10 inch Part No. 301486

- 10 inch • MPT Butterfly valve



ITEM	PART NO.	DESCRIPTION	QTY
1	301486	Butterfly Valve, 10 inch	1
2	302995	Seal	1



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EQUIPMENT ➤

PARTS ➤

SUPPORT ➤

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THERE'S WORK TO BE DONE



MEGA SPRAY SYSTEMS

At the core of water truck operations is a spray control system that integrates with each water distribution component (spray head valves, water pump, dump bar, etc) and brings them under the direction of the operator.

Mega's (SCS) spray control systems are built to be reliable, durable, and can be adapted for use on any hydraulic or pneumatic truck with 24 VDC power.



GENUINE MEGA



MEGA SPRAY SYSTEMS

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MEGA SPRAY SYSTEMS



Mega offers four different cab control systems for use on hydraulic and pneumatic trucks. All versions of the Mega cab control system require a reliable chassis 24 VDC switched power supply. If you have any questions on what system will work for you our product support department will be happy to help. Call us at 505.345.2661 or toll free at 1.800.345.8889.



ELECTRO-HYDRAULIC

A very dependable and easily maintained spray control system offered by Mega Corp. This system is 100% electro-hydraulic requiring no air supply utilizing the prime movers hydraulic system for fluid power. Up to 6 spray heads and 3 accessory water valves can be controlled with this system. Like all Mega spray control system both interior and exterior LED water level gauges are included. Mega electro-hydraulic spray control system kits include all hosing, wiring, and fittings to complete installation



DIGITAL SPRAY CONTROL SYSTEM-DISCS®

Mega Digitally Integrated Spray Control System - DiSCS® utilizes logic controls to minimize wiring and maximize control of our standard electro-hydraulic spray control system. With standard GPS ground speed sensing DiSCS® regulates water output based on ground speed to prevent overwatering. Mega DiSCS® cab controls are built to take the tough environment found in surface mining and heavy construction. DiSCS® also provides time based, distance based (checkerboarding) and speed based watering patterns for maximum water use efficiency and haul road safety.



ELECTRO-PNEUMATIC

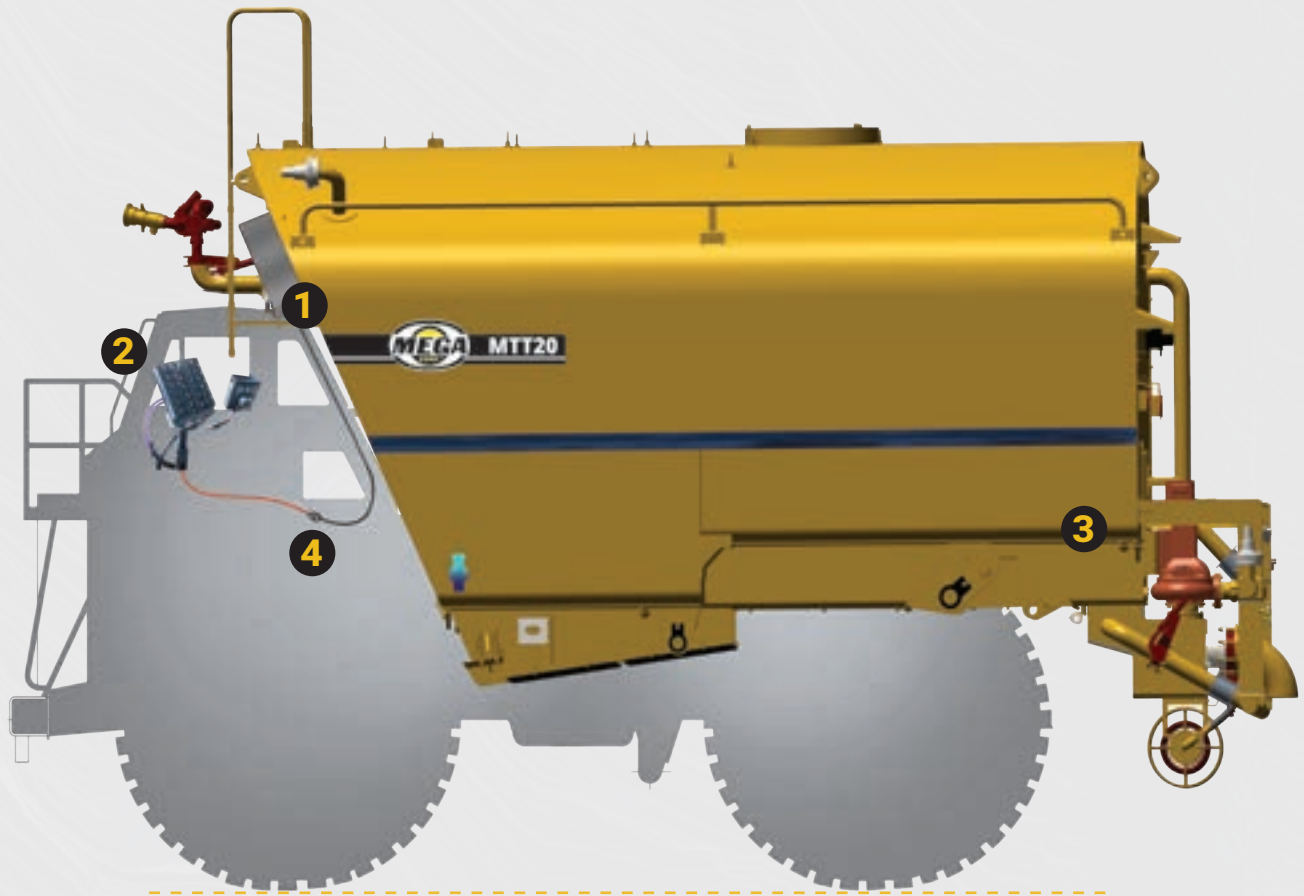
An inexpensive option suitable for any 12V or 24V truck with a reliable air supply, and can be configured for use on trucks with mechanical hoist valves. This system can control up to 6 spray heads and 3 additional pneumatic valve-operated components, and is pre-wired for foam-agent use. LED water level gauge included.



MANUAL PNEUMATIC

A cost-effective alternative to the electro-pneumatic system for any 12V or 24V truck with a reliable air supply. This system can control up to 8 spray heads, a water cannon, and 3 auxiliary pneumatic or electrically operated components. LED water level gauge included.

LOCATION OF THE MAIN COMPONENTS OF A MEGA SPRAY SYSTEM



- 1** Superbox
- 2** Mega Cab Control
- 3** Water Level Sensor
- 4** Cabling

This drawing is typical for a Mega MTT-Mega Rigid Truck Tank.
Drawing is for general reference only and locations may vary per Mega product.

▶ MEGA DIGITAL SPRAY CONTROL SYSTEM

There is a growing demand for precise application of water spray for dust suppression in surface mining, and construction applications to promote water conservation and operator safety. To address these issues Mega has designed the DiSCS[®]-Digital Spray Control System.

DiSCS[®] utilizes CAN Bus* technology to operate the spray control system controlling the water pump, water spray, and water actuation. When combined with our GPS, DiSCS[®] provides a method to automatically regulate the amount of water spray applied relative to vehicle ground speed or distance traveled.



The DiSCS[®] compact switchpad is based on CAN Bus protocol and is water and dust resistant. The LED switchpad lights up with the many different watering patterns and controls.

- ✓ Simple and rugged construction for heavy-duty operation
- ✓ Adjustable switchpad brightness
- ✓ RAM[®] mount (where applicable) is fully adjustable to any operator
- ✓ In-cab water level indicating system
- ✓ Total system pause function
- ✓ Work light and auxiliary controls

DiSCS[®] SPRAY SYSTEM FEATURES AND BENEFITS



Distance-Based Spraying (Checkerboard)

Alternating intermittent watering patterns reduces water consumption and ensures one steering tire and one drive tire remain on a dry surface.



GPS

Distance and speed-based operation modes utilize a GPS-based speed signal to automatically stop/start water flow when the vehicle stops/starts moving, while in GPS mode.



Speed-Based Spraying (Continuous Coverage)

Sequence-based intermittent spray system operation uses Pulse Width Modulation (PWM) to vary the amount of water flow while maintaining a continuous rate of water application, independent of speed.



Time Based Spraying (Banding)

Operator adjustable, full width, intermittent wet/dry pattern.



Manual Spraying

The system can be operated manually independent of GPS signal.



Reliability

DiSCS® utilizes Mega water pump, hydraulic motor, Mega spray heads, and electro-hydraulic controls. There are no complex modifications to the vehicle's hydraulic systems or powertrain.



Versatility

DiSCS® is adaptable to most, if not all, pieces of water equipment found worldwide. DiSCS® can be easily installed in the field on machines originally equipped with a Mega spray system, or can be retrofit to many older models equipped with a competitor's spray systems.



Support

Our product support specialists are highly-qualified technicians with years of experience who provide on-site assistance, operator training, technical and service advice, including system installation, configuration and best practices. Our website features readily available repair and maintenance components, common to most Mega water distribution products.

DISCS® RETRO-FIT KITS

Mega DiSCS® current spray control system can be applied to any older Mega DiSCS® 1.0 and DiSCS® 1.5 water distribution equipment offering these advantages:

- ✓ Standardized operator and maintenance training.
- ✓ Genuine Mega Product Support and parts (also available on-line, and documentation).
- ✓ Readily available repair and maintenance components, common to most Mega water distribution products.

STANDARD DiSCS® SUPERBOX FEATURES

The DiSCS® Superbox is a water-tight, sealed compartment with weather-proof rating built for rugged use in the harshest environments for mining and construction.

- The Superbox consolidates the hydraulic system solenoid logic controls in a weather-proof, easy-to-access enclosure that securely protects critical components.
- Externally-mounted system filter assembly to protect hydraulic control valves.
- Logic control modules include individual fusing and self-diagnostics to assist in troubleshooting.
- Durable wiring harness with Deutsch® connections throughout. Harness includes additional pre-wired functions for easy plug-and-play of additional functions.

WATER PUMP PROTECTION FEATURES

Soft Start/Stop

System controlled soft starts/stops to protect against operator induced sudden starts and stops that can decrease drive motor and water pump service life.

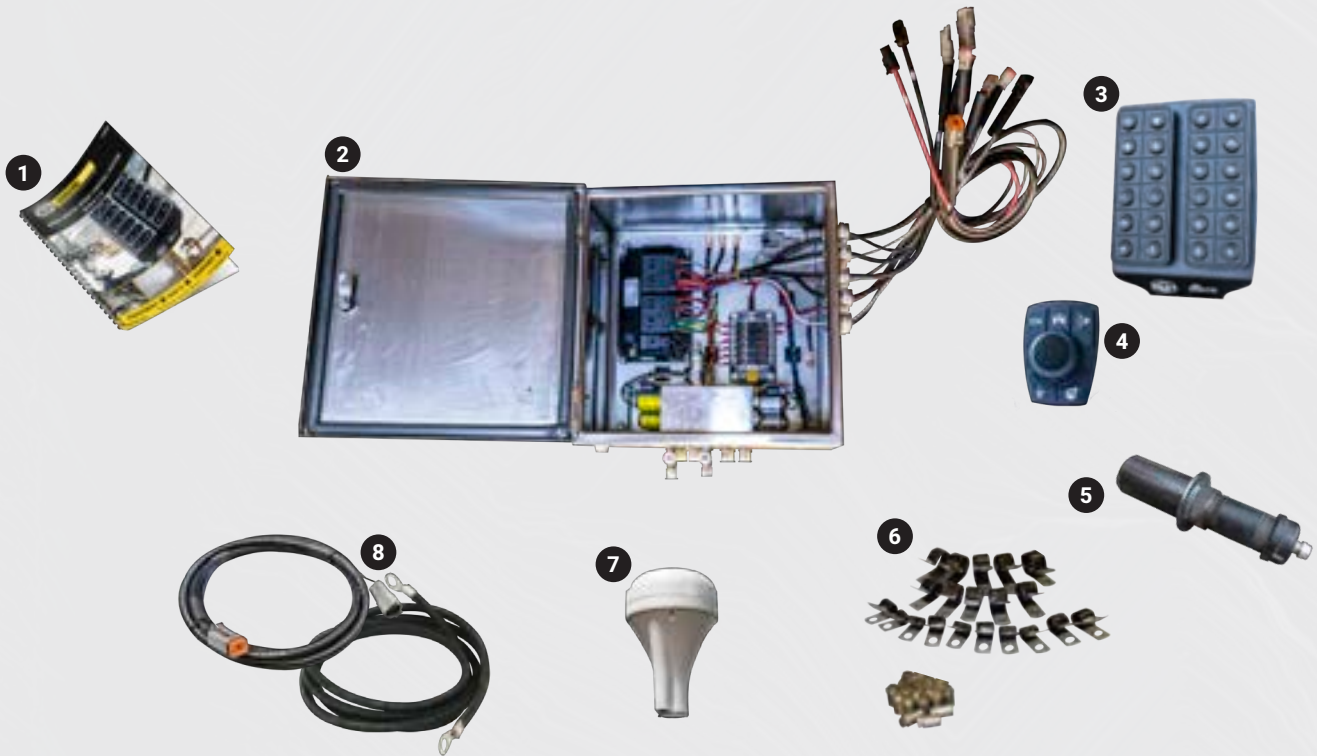
Low water

Automatic soft-stop when low water level is detected which prevents the dry running of the water pump.

Overheating

Automatic soft-stop after extended water pump operation with spray heads and water cannon valves closed (no water flowing from the pump).

DiSCS® 2.0 Spray System Kit



KIT INCLUDES:

ITEM	DESCRIPTION
1	DiSCS® Mega Hydraulic Spray System Installation Instructions
2	DiSCS® Hydraulic Solenoid Control in Stainless Steel Enclosure
3	DiSCS® Mega Cab Control
4	DiSCS® Water Cannon Joystick Control Box
5	Water Level Sensor Protection Assembly
6	Mounting Hardware
7	Electrical Cables and Hardware
8	* GPS Speed Sensing
OPTIONAL COMPONENTS INCLUDE:	
Hydraulic Spray Heads (Aluminum or Stainless Steel)	
Spray Head Base Plates and Plate Adapters	
Hydraulic Integration Kit	
Water Pumps	
Hydraulic Drive Motor and Flow Control	
Water Pump Flanges and Mounts	
Mega Water Cannon Kit	

* Please contact Product Support for inquiries on our GPS accessory.

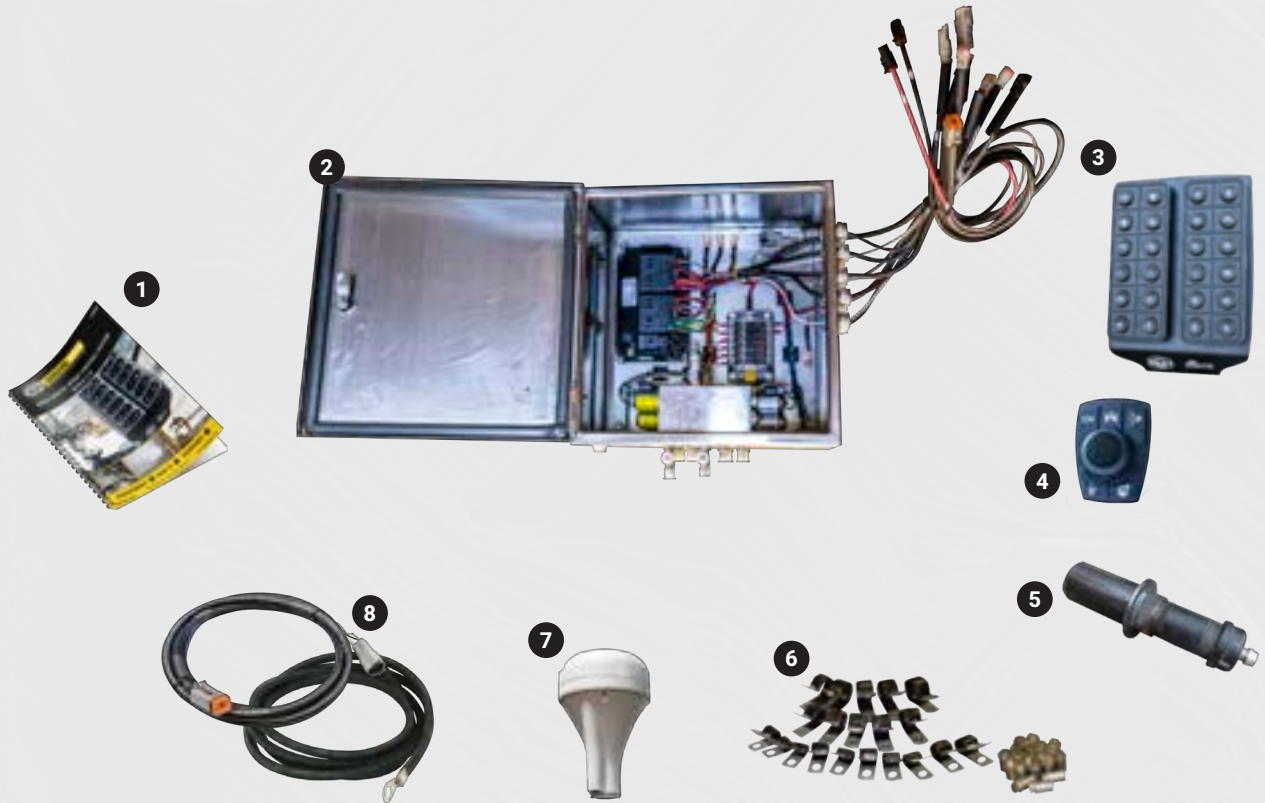
Kits are subject to change. If you have any questions please contact your Mega sales representative at 505.345.2661 or toll free at 1.800.345.8889.



HEAVY-DUTY

DiSCS® 2.0 Retro Spray System Kits

056321-FCS FULL KIT



KIT INCLUDES:

ITEM	DESCRIPTION
1	DiSCS® Mega Hydraulic Spray System Installation Instructions
2	DiSCS® Hydraulic Solenoid Control in Stainless Steel Enclosure
3	DiSCS® Mega Cab Control
4	DiSCS® Water Cannon Joystick Control Box
5	Water Level Sensor Protection Assembly
6	Mounting Hardware
7	Electrical Cables and Hardware
8	* GPS Speed Sensing
9	Work Lights

* Please contact Product Support for inquiries on our GPS accessory.

Kits are subject to change. If you have any questions please contact your Mega sales representative at 505.345.2661 or toll free at 1.800.345.8889.

DiSCS® 2.0 Retro Spray System Kits

053130-FCL LITE KIT



KIT INCLUDES:

ITEM	DESCRIPTION
1	DiSCS® Mega Hydraulic Spray System Installation Instructions
2	DiSCS® Hydraulic Solenoid Control in Stainless Steel Enclosure
3	DiSCS® Mega Cab Control
4	DiSCS® Water Cannon Joystick Control Box
5	Water Level Sensor Protection Assembly
6	Mounting Hardware
7	Electrical Cables and Hardware
8	* GPS Speed Sensing
9	Work Lights

* Please contact Product Support for inquiries on our GPS accessory.

Kits are subject to change. If you have any questions please contact your Mega sales representative at 505.345.2661 or toll free at 1.800.345.8889.

Mega DiSCS® 2.0 Cab Control*

Part No.055565

- 6 Spray Heads & Timer
- Water Level
- Drain & Dump bar
- Water Cannon & Adjustable Nozzle
- Work Lights
- Compatible with GPS

***To purchase the complete Mega cab control please contact our Product Support or Part Sales Department at 505.345.2661 or toll free at 1.800.345.8889.**



ITEM	PART NO.	DESCRIPTION	QTY
	055565	DiSCS® 2.0 Switch Assembly	1
1	309704	DiSCS® 2.0 Switch Bank A	1
2	309705	DiSCS® 2.0 Switch Bank B	1
3	052714	PKU Pedestal	1
4	052766	Cover PKU Pedestal	

* Please call Mega Product Support at 505.345.2661 for correct application and for purchasing information.

Mega DiSCS® 2.0 Joystick Part No.052680

Comes with DiSCS® Spray System Kit



ITEM	PART NO.	DESCRIPTION	QTY
	052680	DiSCS® Water Cannon Joystick	
1	309004	DiSCS® 2.0 Joystick	
2	308642	Microphone Clip	
3	308641	Microphone Button Kit	
4	052682	Joystick Box Harness	

* Please call Mega Product Support at 505.345.2661 for correct application and for purchasing information.



➤ MEGA ELECTRO-HYDRAULIC SPRAY SYSTEM

Our most popular spray system kit the electro-hydraulic spray control system is suitable for any 24V hydraulic truck. This system can control up to 6 spray heads and 3 butterfly valve-operated components, and has all of the foundations necessary to be compatible with Mega's Digital Spray Control System (DiSCS®). The Electro-Hydraulic control system is also pre-wired for foam-agent compatibility. The same durable Mega spray system components are maintained with all of the same parts supply, technical support, and documentation.

- ✓ Hydraulic solenoid control module is a weather-proof, water-tight, sealed compartment.
- ✓ For rugged use in the harshest environments for mining and construction.
- ✓ Includes kit installation instructions with recommended support parts and technical drawings.
- ✓ Dependable and durable our spray system is the best in the market.
- ✓ Designed to endure harsh environments.
- ✓ Buy parts online on our website or call our Parts Sales Department!
- ✓ Need to customize? Optional components available!



Electro-Hydraulic Features and Benefits



Severe Duty

Mega's electro-hydraulic control system is designed to withstand the harshest environments encountered in the mining industry. All wiring is fully-protected against corrosion, solar exposure, electrical shock, and chafing. Additionally, the system's solenoid control manifold is protected within a sealed, stainless steel, weather-resistant cabinet.



Easy Installation

We make installation of our spray control systems simple and easy to understand. All of our kits come with complete installation drawings and instruction manuals, as well as all wiring harnesses, hosing, cabling, and fittings necessary to complete the installation—no fabrication required.



Simplified Maintenance

Minimize equipment downtime and reduce maintenance costs! With Mega's electro-hydraulic spray system, you'll never have to suffer days of down time due to burnt-out coils; all coils are connected via Deutsch plugs for rapid replacement. Mega provides full parts support for all of our spray systems; replacement parts can be quickly and easily ordered over the phone or online at our website.

Electro-Hydraulic Spray System Kit



KIT INCLUDES:

ITEM	DESCRIPTION
1	Electro-Hydraulic Spray System Kit Installation Instructions
2	Mega Cab Control
3	Water Level Sensor Assembly
4	Hydraulic Solenoid Control Module
5	Mounting Hardware
6	Hydraulic Hosing, Electrical Cables and Hardware
OPTIONAL COMPONENTS INCLUDE:	
Hydraulic Spray Heads (Aluminum or Stainless Steel)	
Spray Head Base Plates and Plate Adapters	
Hydraulic Integration Kit	
Water Pumps	
Hydraulic Drive Motor and Flow Control	
Water Pump Flanges and Mounts	
Mega Water Cannon Kit	

Kits are subject to change. If you have any questions please contact your Mega sales representative at 505.345.2661 or toll free at 1.800.345.8889.

Mega Cab Control, Analog (Modular)*

Comes with Electro-Hydraulic Spray System Kit

- 6 Spray Heads & Timer
- Water Level
- Drain & Dump bar
- Water Cannon
- Work Lights

***To purchase Mega cab control please contact our Product Support or Part Sales Department at 505.345.2661 or toll free at 1.800.345.8889**



ITEM	PART NO.	DESCRIPTION
1	303041	Joystick, Universal
2	305022	Switch, Momentary
3	305021	Switch, No Light, DPDT
4	305020	Switch, White Lens, SPST
5	305019	Switch, Green Lens, SPST

ITEM	PART NO.	DESCRIPTION
6	303182	Cover, Carling Switch
7	305967	Indicator, W.L, Mini
8	305029	Knob, Potentiometer
9	304751	Timer
10	*	Driver Card, Solenoid (2017)

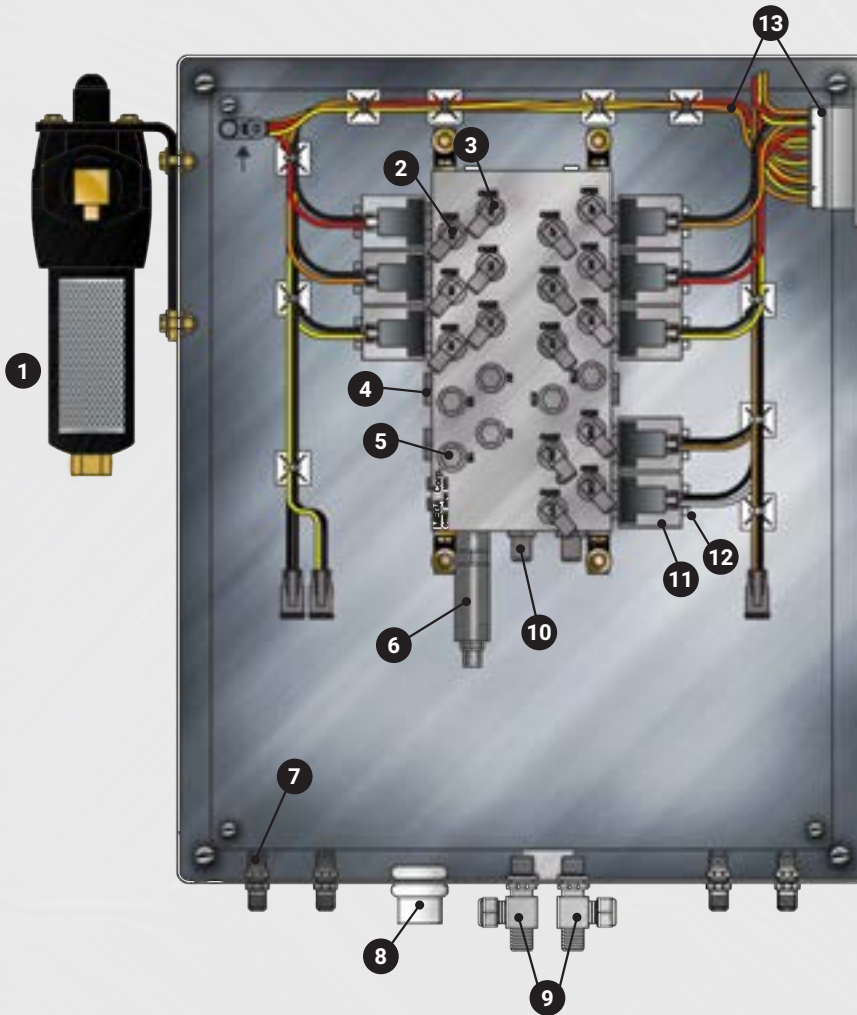
* Please contact Mega Product Support or Parts Sales at 505.345.2661 for correct application and for purchasing information. Cab control boxes vary by model and tank options. Please provide tank serial and prime mover model number.

Hydraulic Solenoid Control Box Part No. 047403

Comes with Electro-Hydraulic Spray System Kit

• Spray Head Pressure (550 psi)

• BFV Pressure (2000 psi)



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	047403	Mega Solenoid Box, Superbox, Hydraulic	1	7	352641	ADP, Bulkhead JIC 4-4	16
1		*Hydraulic Filter Assembly	1	8	305880	Condensation Drain	1
2	352481	ADP, JIC/ORB 4-4 90°	8	9	354065	TEE, Bulkhead JIC 6-6-6	2
3	355424	ADP, JIC/ORB 4-4 90° LONG	8	10	352606	ADP, JIC/ORB 6-6 0°	2
4	304860	Plug, E05 Manifold Port	3	11	305590	Coil, 24 VDC With Connector	8
5	353475	Plug, #4 ORB	6	12	305156	Solenoid Valve	8
6	309093	Regulator	1	13	044740	Cable Assembly, Master	1

* Please contact Mega Product Support or Parts Sales at 505.345.2661 for correct application and for purchasing information. Cab control boxes vary by model and tank options. Please provide tank serial and prime mover model number.

REV 00D 8/1/2019

Buy parts online www.megacorpinc.com or by calling Mega Parts Sales @ 1-800-345-8889.



➤ MEGA ELECTRO-PNEUMATIC SPRAY SYSTEM

Mega's electro-pneumatic spray control system is an inexpensive option for any 24 Volt truck with a reliable air supply. This spray system can be configured to control up to 6 spray heads as well as 3 butterfly valves for operation of a water cannon (hydraulic or electric), drain, and dump bar.

The electro-pneumatic spray system is a reliable, durable Mega standard. Included is a tractor air supply protection valve that will shut down the system in case of an air leak. The spray system also comes with a built-in air pressure regulator and filtering, with a manual shut-off valve. And, if your truck has a mechanical hoist valve, the electro-pneumatic spray system can be configured for your truck by using pneumatic cylinders for operation.

The electro-pneumatic system includes a standard brick-style controlbox that can be ordered with or without a solenoid driver card. Its compact size and shape is very convenient for smaller cabs where space might be limited.

Electro-Pneumatic Spray System Features and Benefits



Versatile

Adaptable to be installed on any 24 Volt truck with a reliable air supply and is particularly ideal for scraper tanks and older rigid frame trucks.



Intermittent spray

Timed Intermittent Spray mode is a standard feature.



Easy Installation

We make installation of our spray control systems simple and easy to understand. All of our kits come with complete installation drawings and instruction manuals, as well as all wiring harnesses, hosing, cabling, and fittings necessary to complete the installation-no fabrication required. The electro-pneumatic system also comes with built-in air pressure regulation and filtration.



Simplified Maintenance

Minimize equipment downtime and reduce maintenance costs! Mega's electro-pneumatic spray system requires less service time than other systems on the market, due to our high quality wiring harnesses, weather-resistant steel housing for our solenoid module, protected cabling, and service drawings and instructions. Additionally, all coils are connected via Deutsch plugs for rapid replacement. Mega provides full parts support for all of our spray systems. Replacement parts can be quickly and easily ordered over the phone or online at our website.

Electro-Pneumatic Spray System Kit



KIT INCLUDES:

ITEM	DESCRIPTION
1	Electro-Pneumatic Spray System Installation Instructions
2	Pneumatic Solenoid Control Module
3	Mega Cab Control
4	Water Level Sensor Assembly
5	Mounting Hardware
6	Air Hosing, Electrical Cables and Hardware
OPTIONAL COMPONENTS INCLUDE:	
Pneumatic Spray Heads	
Spray Head Base Plates and Plate Adapters	
Water Pumps	
Hydraulic Drive Motor and Flow Control	
Water Pump Flanges and Mounts	
Mega Water Cannon Kit	

Kits are subject to change. If you have any questions please contact your Mega sales representative at 505.345.2661 or toll free at 1.800.345.8889.

Mega Cab Control*

Comes with Electro-Pneumatic Spray System Kit

- 6 Spray Heads & Timer
- Water Level
- Drain & Dump bar
- Water Cannon & Adjustable Nozzle
- Work Lights

***To purchase the complete Mega cab control please contact our Product Support or Part Sales Department at 505.345.2661 or toll free at 1.800.345.8889.**



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	303041	Joystick, Universal	1	7	305022	Switch, Momentary	1
2	305029	Knob, Potentiometer	2	8	303128	Cover, Carling Switch	5
3	307819	Water Level Indicator	1	9	304751	Calibration Tool, W.L.	1
4	305019	Switch, Green Lens, SPST	11	10	304751	Timer	1
5	305020	Switch, White Lens, SPST	1	11		*Driver Card, Solenoid (2017)	1
6	305021	Switch, No Light, DPDT	1				

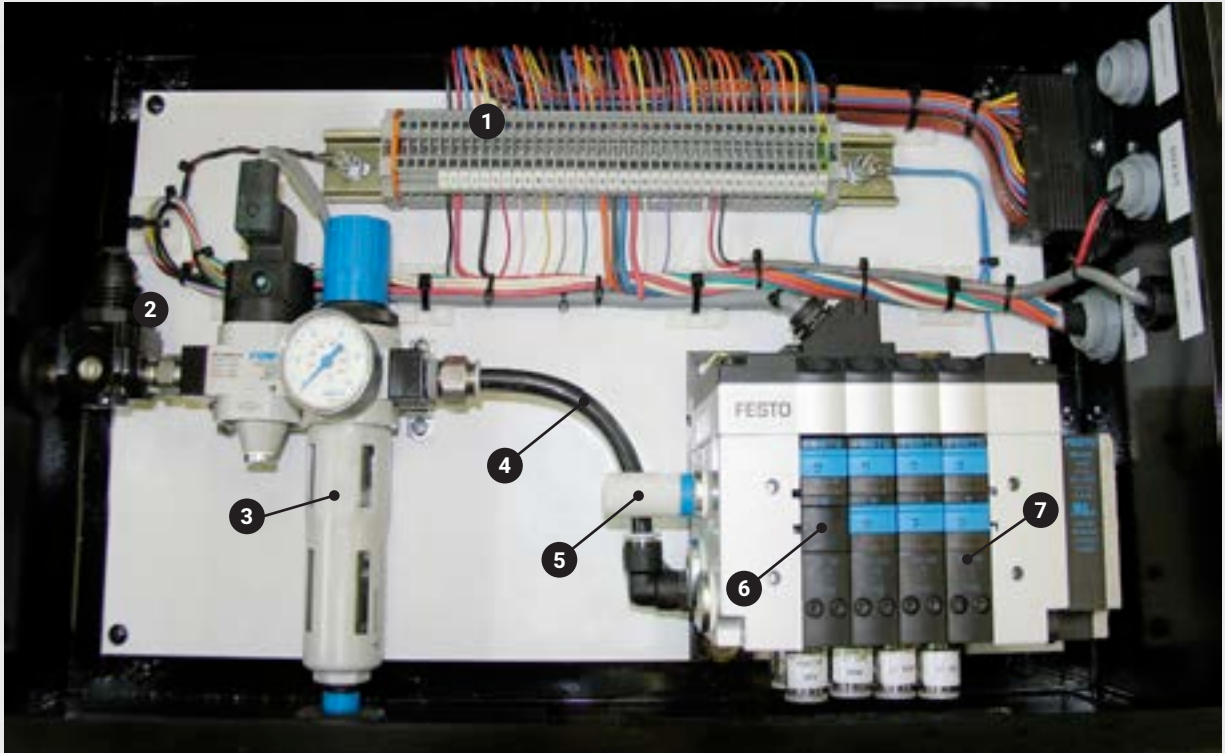
* Please contact Mega Product Support or Parts Sales at 505.345.2661 for correct application and for purchasing information. Cab control boxes vary by model and tank options. Please provide tank serial and prime mover model number.

Pneumatic Solenoid Control Module

Comes with Electro-Pneumatic Spray System Kit

• 24 Volt DC)

• 60-100 psi



ITEM	PART NO.	DESCRIPTION	QTY
1	303827	Terminal, Block, 2-Conductor	40
2	300945	Valve, Pressure Protection	1
3	304945	Air Regulator, Shut-Off Valve	1
4	351141	Tubing	1
5	304947	Muffler	1
6	304948	Valve, 4- Way, N.C, BFV	1
7	304929	Valve, Air/Electric, 3-Way, N.C	3

REV 00C



➤ MEGA MANUAL-PNEUMATIC SPRAY SYSTEM

The manual pneumatic spray system is a simpler, cost-effective alternative to the electro-pneumatic spray system, and is available for use on any 24 volt truck with a reliable air supply. The manual pneumatic system can be configured for either an electric or hydraulic water cannon, and comes with a separate tractor air supply protection valve, air-pressure regulator and manual shut-off valve.

- ✓ Low cost system; affordable and easy to integrate.
- ✓ For rugged use in the harshest environments for mining and construction.
- ✓ Includes kit installation instructions with recommended support parts and technical drawings.
- ✓ Dependable and durable our spray system is the best in the market.
- ✓ Designed to endure harsh environments
- ✓ Buy parts online on our website or call our Parts Sales Department!
- ✓ Need to customize? Optional components available!

Manual Pneumatic Spray System Features and Benefits



Affordable and Reliable

For customers with pneumatic systems and tight budgets, Mega's manual pneumatic spray control system is our most cost-effective solution. It can control up to 8 spray heads, one water cannon, and one auxiliary butterfly valve-operated component.



Adaptable

Mega's manual pneumatic spray system is highly adaptable; it can be installed on any chassis with an intact air system, and our knowledgeable Product Support specialists can help you with your installation every step of the way.



Complete

Even our most basic spray system kit comes with everything you need to complete your installation: air hosing, fittings, air regulator and filtration system, and complete installation drawings and instruction manuals.

Manual Pneumatic Spray System Kit



KIT INCLUDES:	
ITEM	DESCRIPTION
1	Manual Pneumatic Spray System Installation Instructions
2	Mega Cab Control
3	Air Hosing
4	Mounting Hardware
5	Water Level Sensor Assembly
6	Air Regulator Assembly
OPTIONAL COMPONENTS INCLUDE:	
	Pneumatic Spray Heads
	Spray Head Base Plates and Plate Adapters
	Water Pumps
	Hydraulic Drive Motor and Flow Control
	Water Pump Flanges and Mounts
	Mega Water Cannon Kit

Kits are subject to change. If you have any questions please contact your Mega sales representative at 505.345.2661 or toll free at 1.800.345.8889.

Mega Cab Control*

Comes with Manual Pneumatic Spray System Kit

- 6 Spray Heads & Timer
- Water Level
- Drain & Dump bar
- Water Cannon & Adjustable Nozzle
- Work Lights

***To purchase the complete Mega cab control please contact our Product Support or Part Sales Department at 505.345.2661 or toll free at 1.800.345.8889.**



ITEM	PART NO.	DESCRIPTION	QTY
1	303041	Joystick	1
2	305019	Switch, SPST Green Lens	5
3	305022	Switch, DPDT, Momentary	1
4	307819	Water Level Sensor	1
5	038634	Switch Cover	2
6	300205	Switch, Air Valve	6

ITEM	PART NO.	DESCRIPTION	QTY
7	303083	Fuse Holder	1
8	303235	Fuse, 15 AMP	1
9	308222	Calibration Tool for Water Level Sensor	1

* Please call Mega Product Support at 505.345.2661 for correct application and for purchasing information.

Air Regulator Assembly Part No. 026247

Comes with Manual Pneumatic Spray System Kit

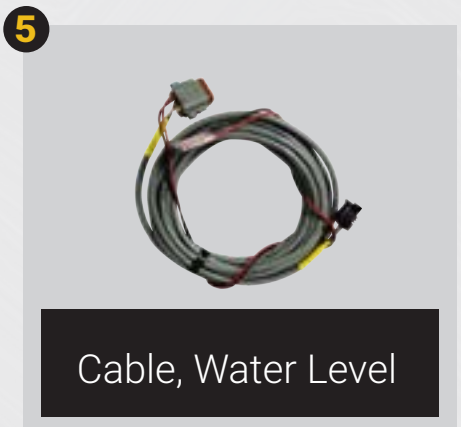
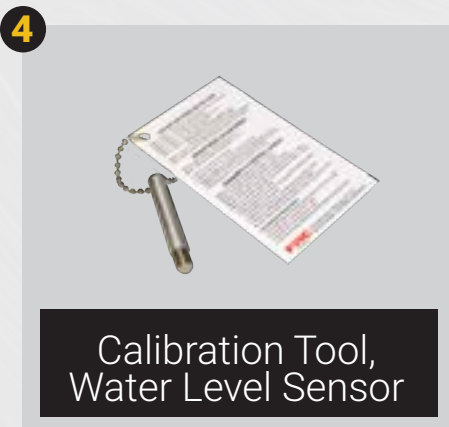
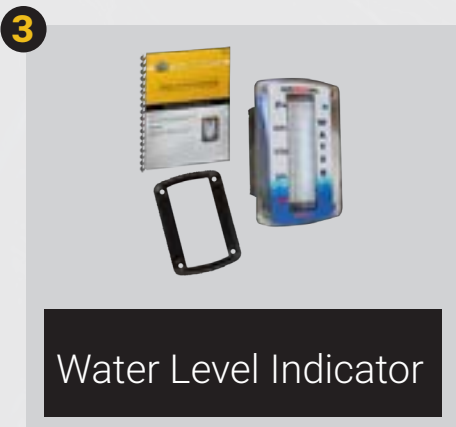
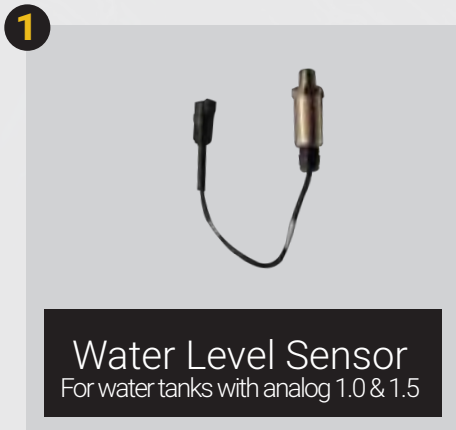


ITEM	PART NO.	DESCRIPTION	QTY
	026247	Air Regulator	
1	026246	Mounting Plate	1
2	026245	Control Box	1
3	303850	Regulator Combo Filter & Air Valve	1
4	352956	Screw Self Tapping #8 X .50	4
5	300945	Valve, Press Protection	1

REV 00C 6/18/2018

WATER LEVEL SYSTEMS

All of our spray systems come with a water level sensor and at least one water level indicator. Mega offers three different water level sensors; choosing the correct one will depend upon the size of your water tank and the type of spray control system you have installed (DiSCS® vs non-DiSCS®). Contact your Mega Parts Sales or Product Support representative for assistance in choosing the right sensor.



ITEM	PART NO.	DESCRIPTION	QTY
1	306626	Water Level Sensor for Water Tanks With Analog DiSCS® 1.0 and 1.5	1
2	308740	Water Level Sensor for Water Tanks With Analog DiSCS® 2.0	1
3	307819	Water Level Indicator (Comes With Bezel & Field Service Bulletin)	1
4	308222	Calibration Tool for Water Level Sensor	1
5	304591	Cable, Water Level, 20 Feet	1

MEGA SPRAY SYSTEM FAQ SECTION

If I need a spray control system for a water tank application, what information do I need to provide?

FOR MEGA WATER TANKS- We will need the tank serial number, and prime mover model and serial number.

FOR NON-MEGA WATER TANKS-We will need pictures of the tank structure and the prime mover model and serial number.

With this information, Mega will configure a custom spray control system for your application. Please contact our Product Support Team at 505.345.2661 for chassis integration solutions.

I have an older Mega spray control system. What are my upgrade choices?

Mega provides upgrade solutions for both digital and analog spray control systems.

- DiSCS® 2.0 spray control systems are compact, reliable and durable, and include a separate water cannon joystick. DiSCS® 2.0 offers programmable water distribution modes to optimize water and fuel conservation.
- The new and improved analog spray control system incorporates a smaller cab box with a separate water cannon joystick box. The cab control also includes a programmable time-based water distribution mode as a standard feature.

Mega has a new DiSCS® spray control system available. Can I upgrade my existing DiSCS® system to the new version?

- The lite retrofit kit allows you to use many of your existing components.
- The full retrofit kit provides a fully-assembled and wired solenoid box.

A new pedestal may be required with both kits. Some customer labor is required for installation of these kits

What other options are available when upgrading to a new Mega spray control system?

Mega offers several optional features that enhance the value of our spray control systems.

- **Pump Motor Assembly Kit** - This kit includes a pump, motor, motor mount, fasteners, gaskets, riser, sump flange and hydraulic crossover kit. Carbon, corrosion resistant and full-stainless water pump options are available.
- **Water Cannon Kit** - This kit includes a stainless steel water cannon (hydraulic or electric), joystick control, butterfly valve (hydraulic or pneumatic), solenoid group, hoses and cabling.
- **Water Cannon Nozzles** - Mega offers a variety of hydraulic and electric nozzles for a multitude of applications.
- **Foam Agent Kit** - Mega foam kits include an external foam agent reservoir and a ground-level fill station. Foam agent kits do not include a foam nozzle or water cannon.
- **Hose Reel Kit** - Hydraulic, spring-rewind and manual hose reel kits are available. You can choose from several hose lengths and hose diameters.
- **Butterfly Valves** - Mega offers butterfly valves (hydraulic and pneumatic actuation) for controlling the water supply to dump bars and drains.
- **Prime Mover Integration** - We design custom solutions to integrate Mega spray control systems with your specific prime mover.
- **Technical Assistance and Training** - Technical assistance, service advice and customer-specific training can be coordinated with our Product Support Team @ <https://www.megacorpinc.com/productsupport/sitehome.asp>

Thank You

For Your Business

THERE'S WORK TO BE DONE



EQUIPMENT >

700 Osuna Rd. NE

PARTS >

Albuquerque, NM 87113

SUPPORT >

www.megacorpinc.com

#GENUINEMEGA

www.megacorpinc.com



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THERE'S WORK TO BE DONE



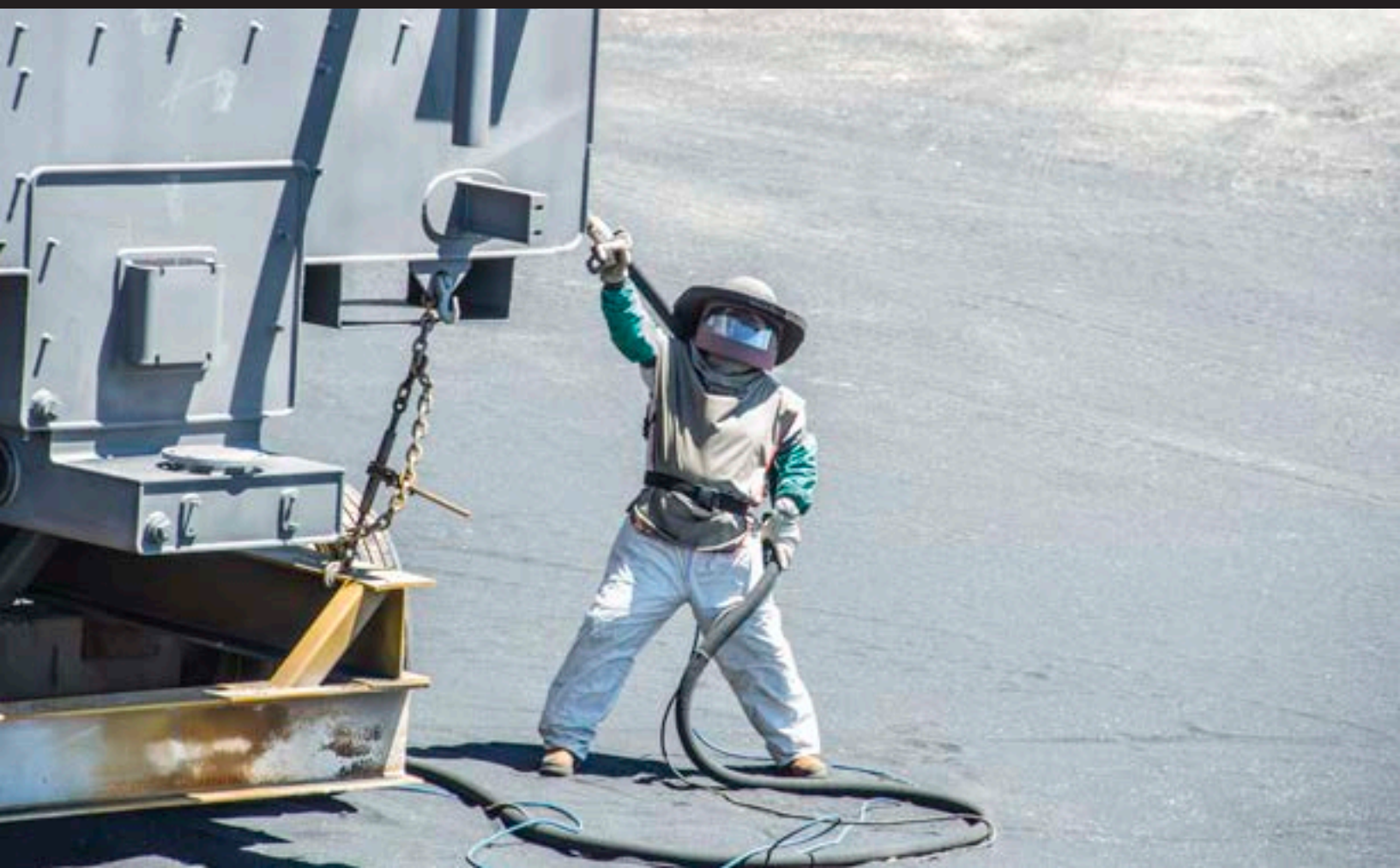
HOSE REELS

Mega offers both electric and hydraulic hose reel assemblies built to withstand the harsh environments of the heavy mining and construction industries—perfect for equipment wash down and fire suppression.

Our assemblies are bolt-on for easy installation and maintenance, and are available in a wide variety of sizes to fit any prime mover-mounted tank.



GENUINE MEGA



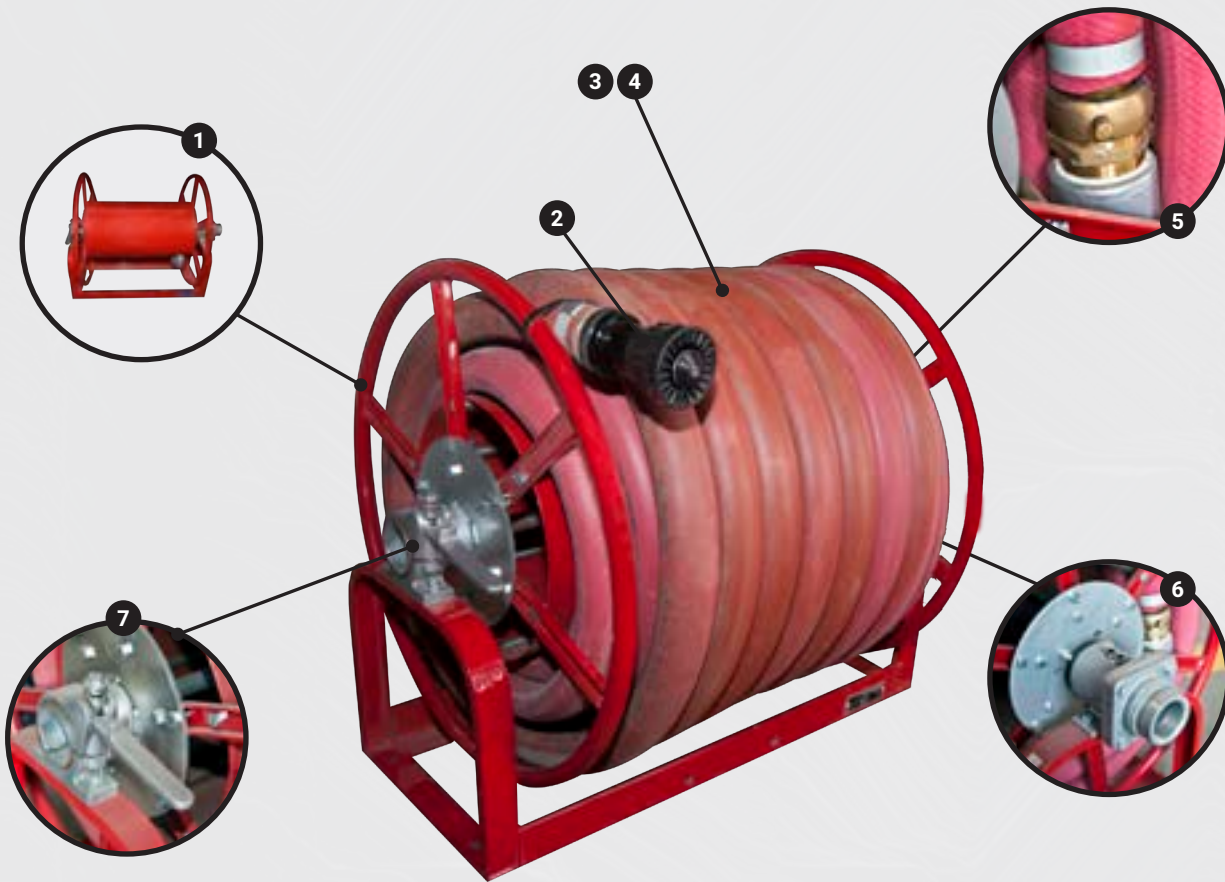
HOSE REELS

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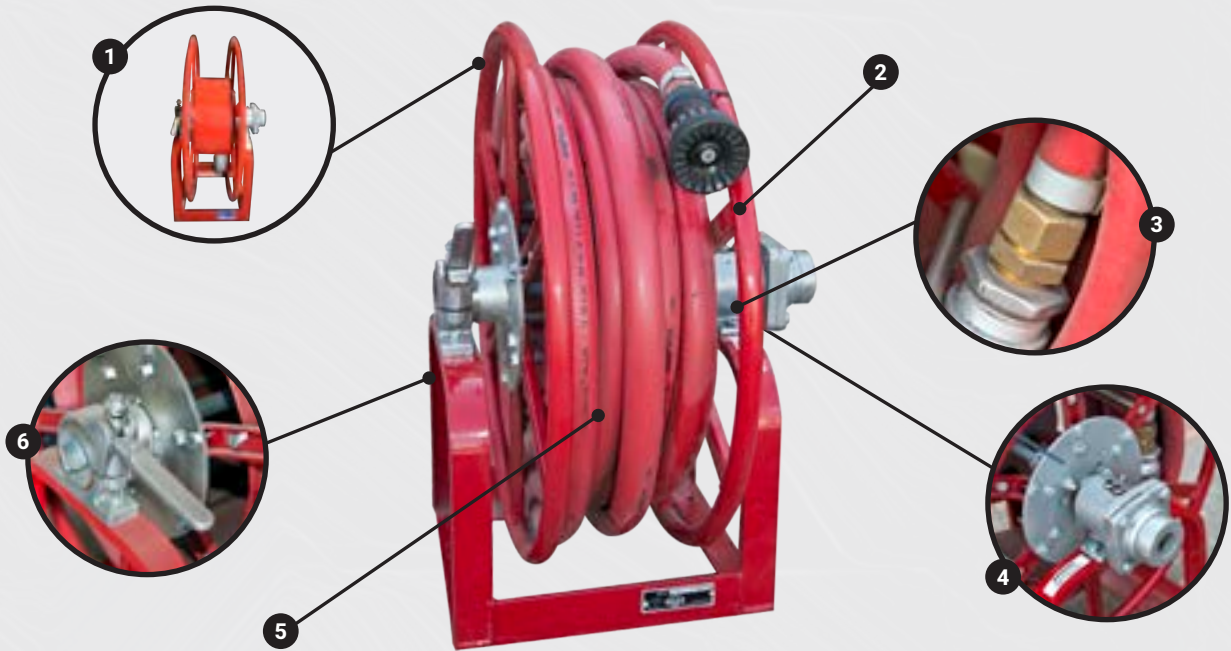
Hose Reel Assembly, 1 1/2 inch X 100 foot Hose, Rim Wind Part No. 304846



ITEM	PART NO.	DESCRIPTION	QTY
	304846	Hose Reel Assembly, 1-1/2 inch X 100 Feet, Rim Wind	1
1	304843	Rim Wind, Hose Reel	1
2	300266	Nozzle, 1 1/2 inch	1
3	303051	Hose Assembly, 1 1/2 inch X 100 Feet With Ends	1
4	303049	* Hose Assembly, 1 1/2 inch X 50 Feet With Ends	1
5	300774	Adaptor, 1 1/2 inch	1
6	301013	Swivel Joint Assembly	1
7	304896	Lock Rim Wind, Hose Reel	1

* Optional sizes available with the Hose Reel Assembly.
REV 00A 10/05/2018

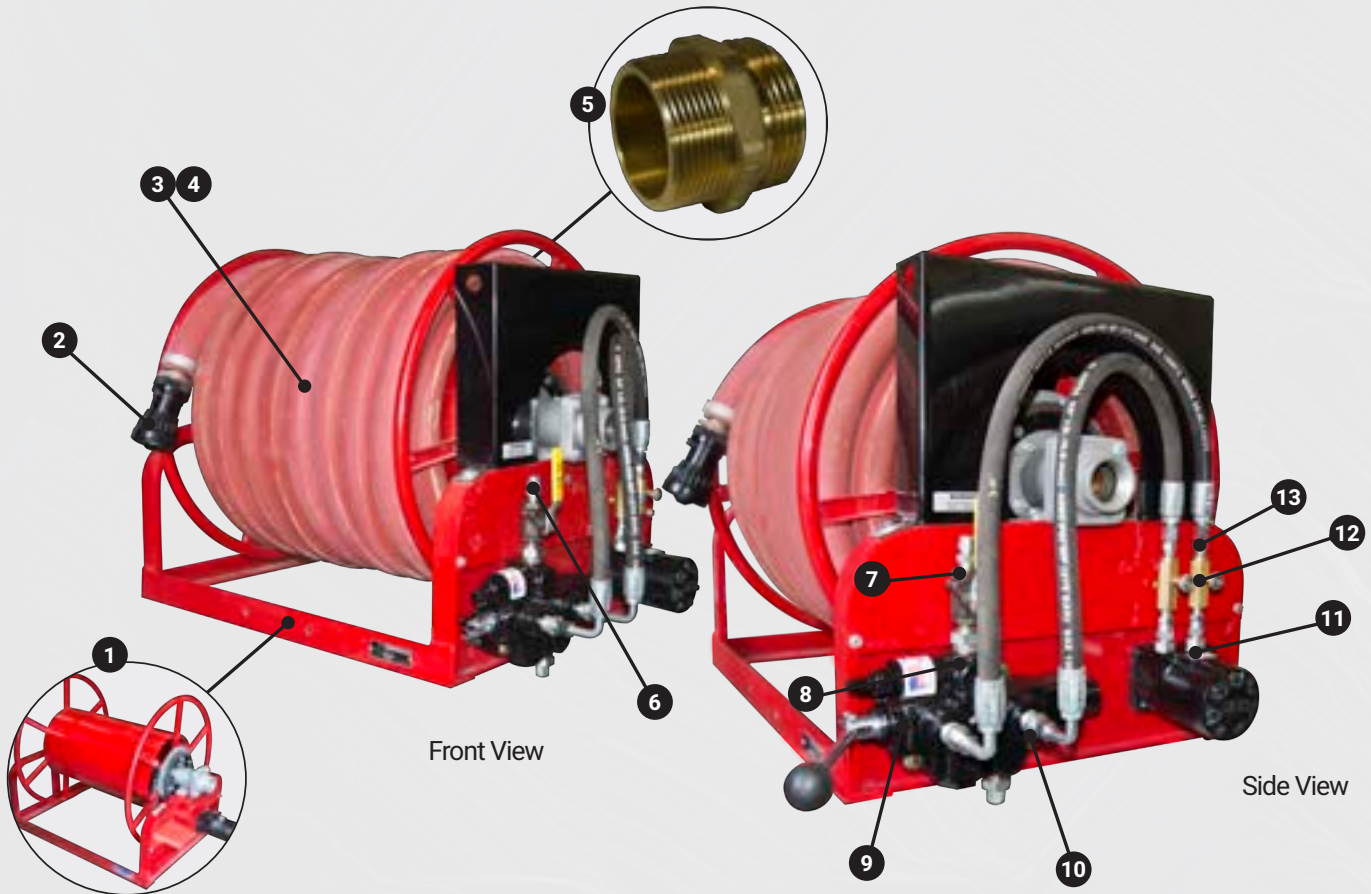
Hose Reel Assembly, 1 inch X 50 foot Hose, Rim Wind Part No. 303859



ITEM	PART NO.	DESCRIPTION	QTY
	303859	Hose Reel Assembly, 1 inch X 50 foot Hose, Rim Wind	1
1	303854	Hose Reel, 1 inch X 50 Feet, Rim Wind	1
2	301948	Nozzle, 1 inch	1
3	355329	Hose Fitting, , 1 inch NPT X 1 inch NPSH	1
4	301013	Swivel Joint Assembly	1
5	300261	1 X 50 Feet Thermo GPX with Coupling & Clamps	1
6	304896	Lock Rim Wind, Hose Reel	1

REV 00A 10/05/2018

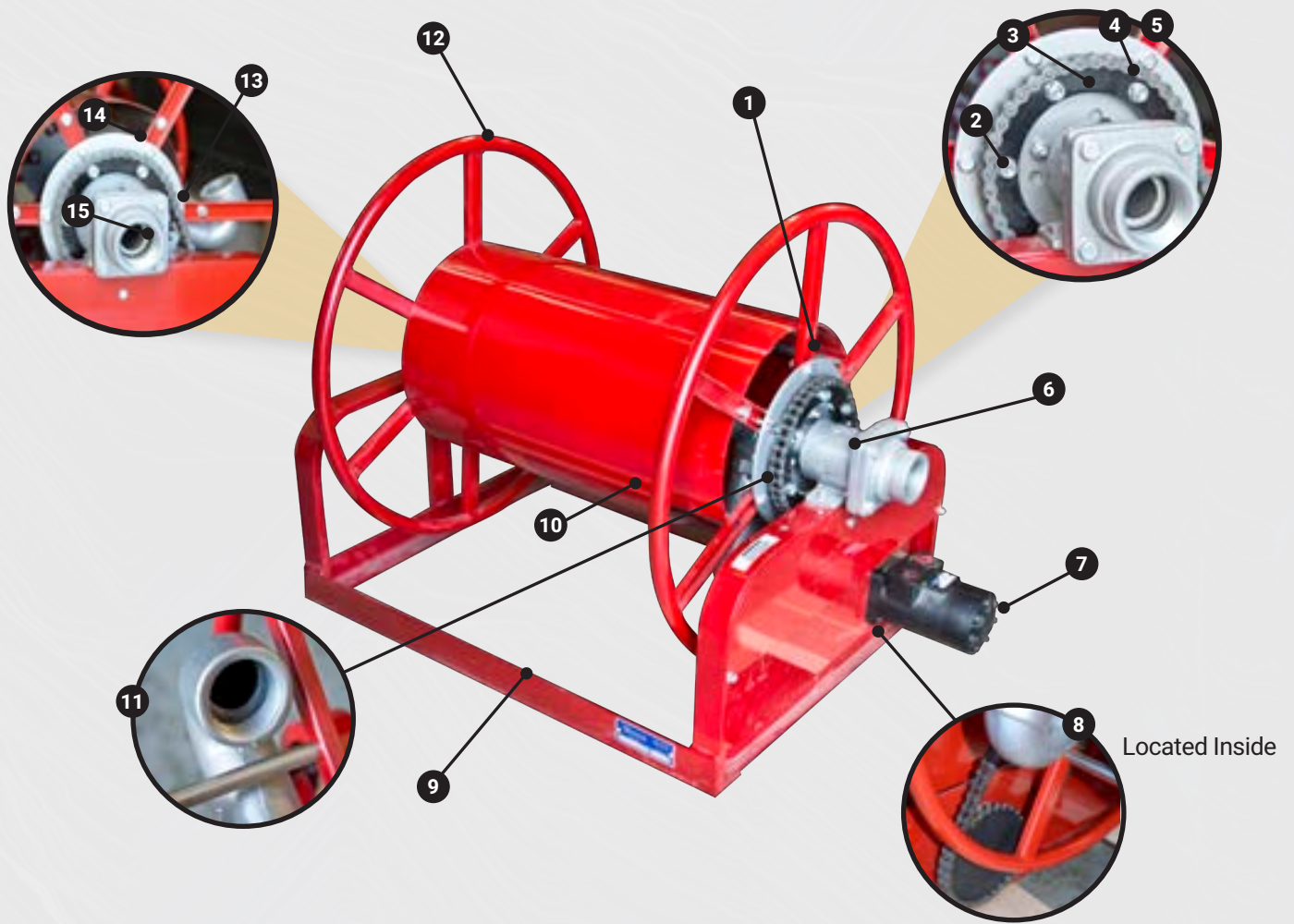
Hydraulic Hose Reel Assembly, 1 1/2 inch X 100 foot Hose Part No. 044540



ITEM	PART NO.	DESCRIPTION	QTY
	044540	Hydraulic Hose Reel Assembly, 1 1/2 inch	1
1	305994	Hydraulic Hose Reel, 1 1/2 inch	1
2	300266	Nozzle, 1 1/2 inch	1
3	303051	Hose Assembly, 1 1/2 X 100 Feet With Ends	1
4	303049	* Hose Assembly, 1 1/2 X 50 Feet With Ends	1
5	300774	Adaptor, 1 1/2 inch	1
6	302111	Valve, Ball, Steel 3/8 inch	1
7	352305	Adapter, 3/8 inch MPT X #6JIC	1
8	352615	ADAPTER, -10 ORB -6 JIC	1
9	306765	Directional Control Valve	1
10	352309	Adapter, -10 ORB -6 JIC	1
11	355066	Adapter Pipe, JIC 4-6	2
12	300283	Valve, Speed Control, 1/4 inch	2
13	352301	Adapter, 1/4 inch MPT X #6JIC	2

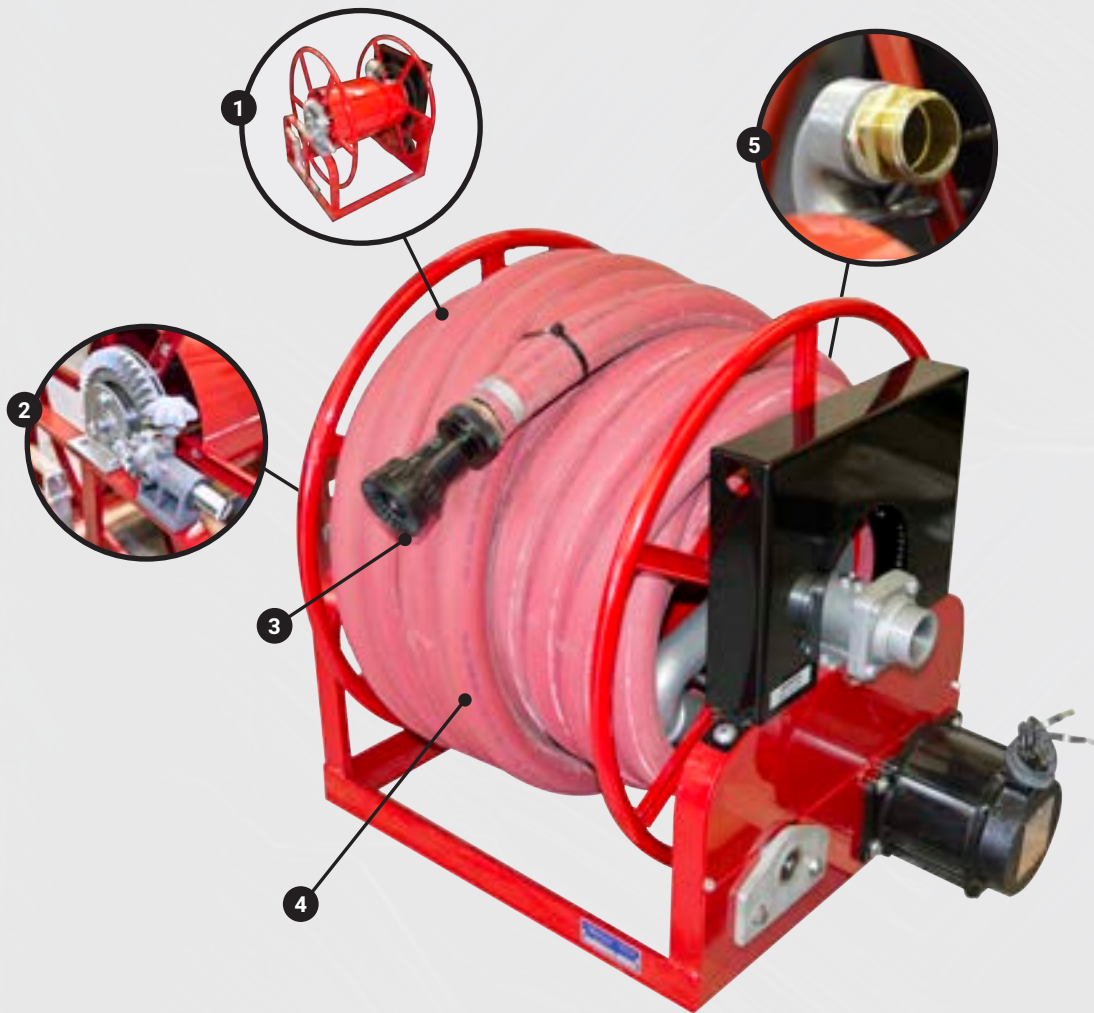
* Optional sizes available with the Hose Reel Assembly.
REV 00M 10/05/2018

Hydraulic Hose Reel, Part No. 305994



ITEM	PART NO.	DESCRIPTION	QTY
	305994	Hydraulic Hose Reel, 1 1/2 inch	1
1	306782	Drum Support	6
2	306779	Sprocket Spacers	6
3	306628	Sprocket, Driven, Reel End Drive	1
4	306630	No.4 Connecting Link Replacement Master Link	1
5	306629	No.4 Chain X 32.75 inches	1
6	306778	Swivel Joint	1
7	306783	Hydraulic Motor	1
8	306627	Sprocket, Drive, Motor End	1
9	306780	Frame Assembly	1
10	306781	Drum Parts	1
11	306774	Outlet Elbow	1
12	306773	Rim	2
13	306776	Pillow Block	1
14	306775	Hub Pate (Joint Side)	1
15	306777	Bearing, 3/4 inch	1

Electric Hose Reel Assembly, 1 1/2 inch X 100 foot Hose Part No. 037426



ITEM	PART NO.	DESCRIPTION	QTY
	037426	Electric Hose Reel Assembly, 1 1/2 inch X 100 feet	1
1	304010	Hose Reel, 1 1/2 inch, Electric 24 VDC	1
2	301236	Crank Housing Assembly	1
3	300266	Nozzle , 1 1/2 inch	1
4	303051	Hose Assembly, 1 1/2 inch X 100 Feet, With Ends	1
5	300774	Adapter, 1 1/2 inch	1
5	300774	Adapter, 1 1/2 inch	1

10/05/2018

Thank You

For Your Business

THERE'S WORK TO BE DONE



EQUIPMENT >

PARTS >

SUPPORT >

700 Osuna Rd. NE

Albuquerque, NM 87113

www.megacorpinc.com

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