

# TRANSPORTATION PUMPS



- FRX Series
- ILX Pump
- MDX Pump
- SBX Pump

We don't just go with the flow, we create it!™

 **MP PUMPS, INC.**

[www.mppumps.com](http://www.mppumps.com)

Our products are designed with our customers needs in mind.

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### Our History

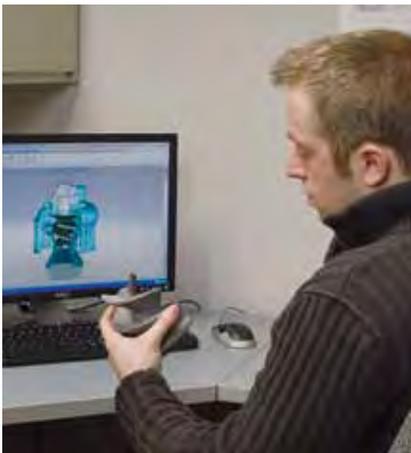
MP Pumps, Inc. was founded in Detroit, Michigan in 1942, shortly after the United States entry into World War II. In fact, our pumps landed on the beaches of Normandy. They were used on transports and other amphibious vehicles on that historic day. To this day, we engineer and manufacture our pumps, keeping in mind just how critical quality and performance can be in every application, just as they were on D-Day.

After the war, our reputation for providing the highest quality centrifugal pumps allowed us to enjoy continued growth. We eventually outgrew our facility and moved to our current location in Fraser, Michigan. Our 100,000 square-foot facility houses our manufacturing, engineering, administrative and marketing staffs. In addition, we warehouse over 10,000 different parts to insure that our customers receive prompt delivery regardless of their needs or location.



### Research and Development

A strong research and development program is fundamental to innovation. At MP Pumps, Inc., our innovative muscle derives from a highly trained and experienced research staff backed by a fully equipped laboratory for conducting rigorous performance and endurance testing.



### Engineering

MP Pumps, Inc. brings more than a half century of experience in the design and manufacture of centrifugal pumps to each new project. Through experience, we can quickly identify and focus on the critical aspects of every design project and develop an approach to satisfy the most demanding performance requirements.

Our engineers use state-of-the-art solid modeling software, designed for manufacturing techniques and fast prototype capability, to move rapidly from initial concept to first production.

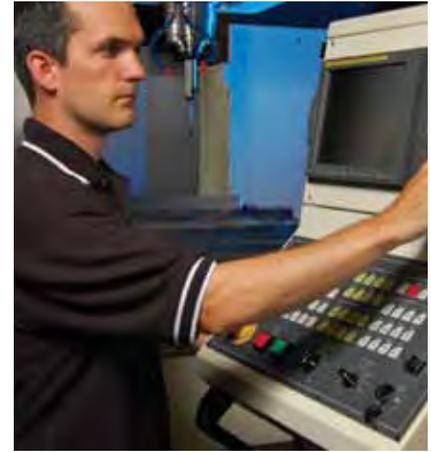


### Quality Control

At MP Pumps, Inc., quality is designed into every component and every pump we build. From concept through development and on into production, our focus is to provide durable and reliable products that satisfy every customer requirement.

Our emphasis on quality is recognized by international standards agencies. Milestones include:

- **American Bureau of Shipping (ABS) Certification for select models**
- **ISO 9001-2008 Certification**
- **ISO 14001**



### Manufacturing

Advanced technology is central to our manufacturing operations. Using state-of-the-art equipment and methods translates into speed, uniformity and consistent high quality.

But our people are what make the difference. Each operator is highly trained on their respective piece of equipment to insure nothing but the highest quality for our customers.



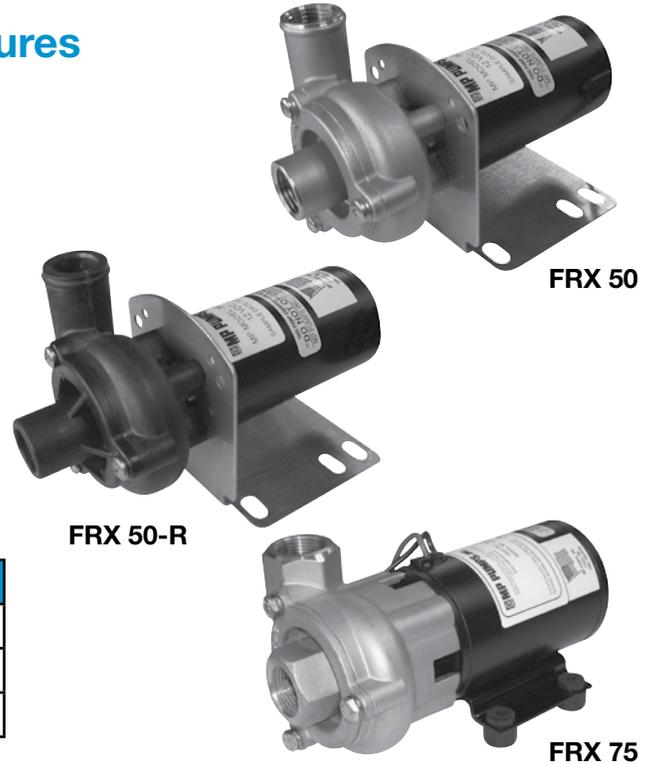
### Customer Service

As we look to what's next for MP Pumps, Inc., we will continue to build on what we do best. When you buy from us, you will receive a high quality product that is strongly supported by all of our people. Because, ***we don't go with the flow, we create it.***



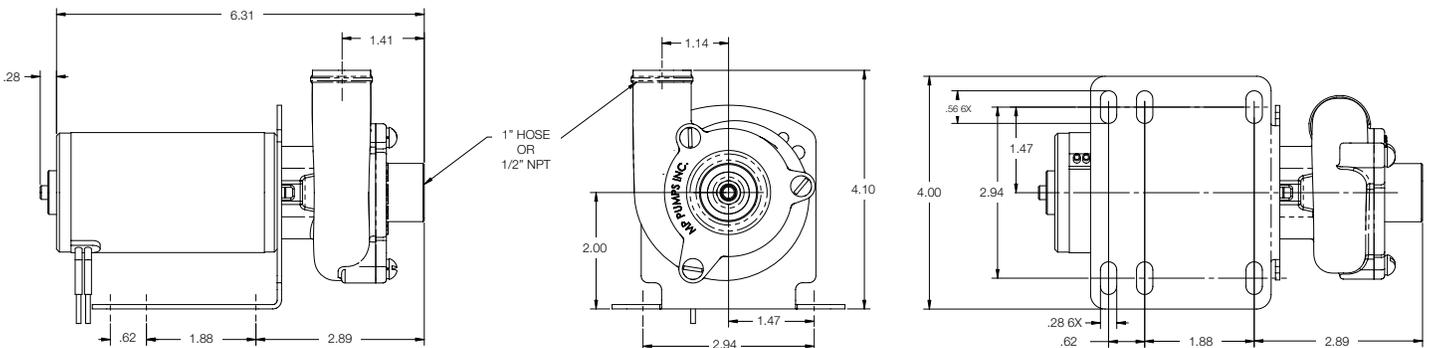
## Fractional HP Centrifugal Pump Features

- Close Coupled To Electric Motors
- 316 SS Construction  
FRX 50-R Polyphenylene Housing And Cover
- Flows: 8-25 GPM
- Pressures: 9 To 30 Feet Head
- Impeller: 316 Stainless Steel
- Mechanical Seals: Carbon/Ceramic/Viton
- Motor Options: 12VDC And 24VDC  
Hydraulic: FRX75, FRX75 SP

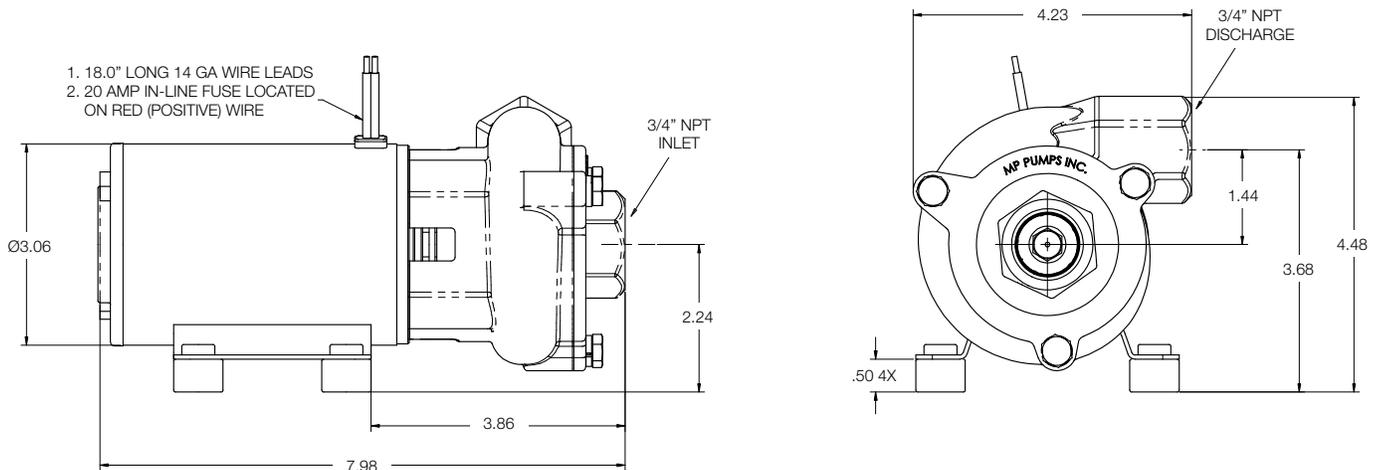


Model	Suction	Discharge
FRX 50	1/2" NPT/1" Hose	1/2" NPT/1" Hose
FRX 50-R	1" Hose	1" Hose
FRX 75	3/4" NPT	3/4" NPT

## FRX 50 & FRX 50-R Dimensions



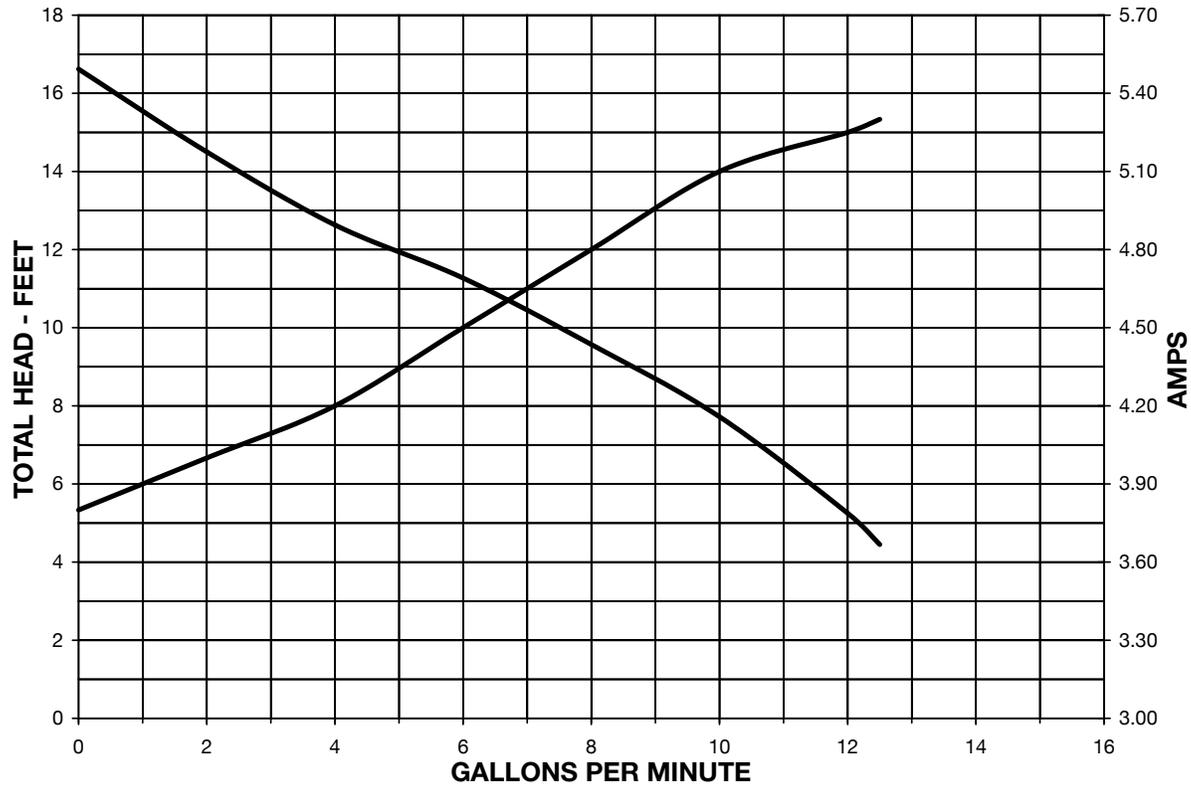
## FRX 75 12V or 24V Dimensions



## FRX 50 & FRX 50-R Performance Curves

12V DC Motor

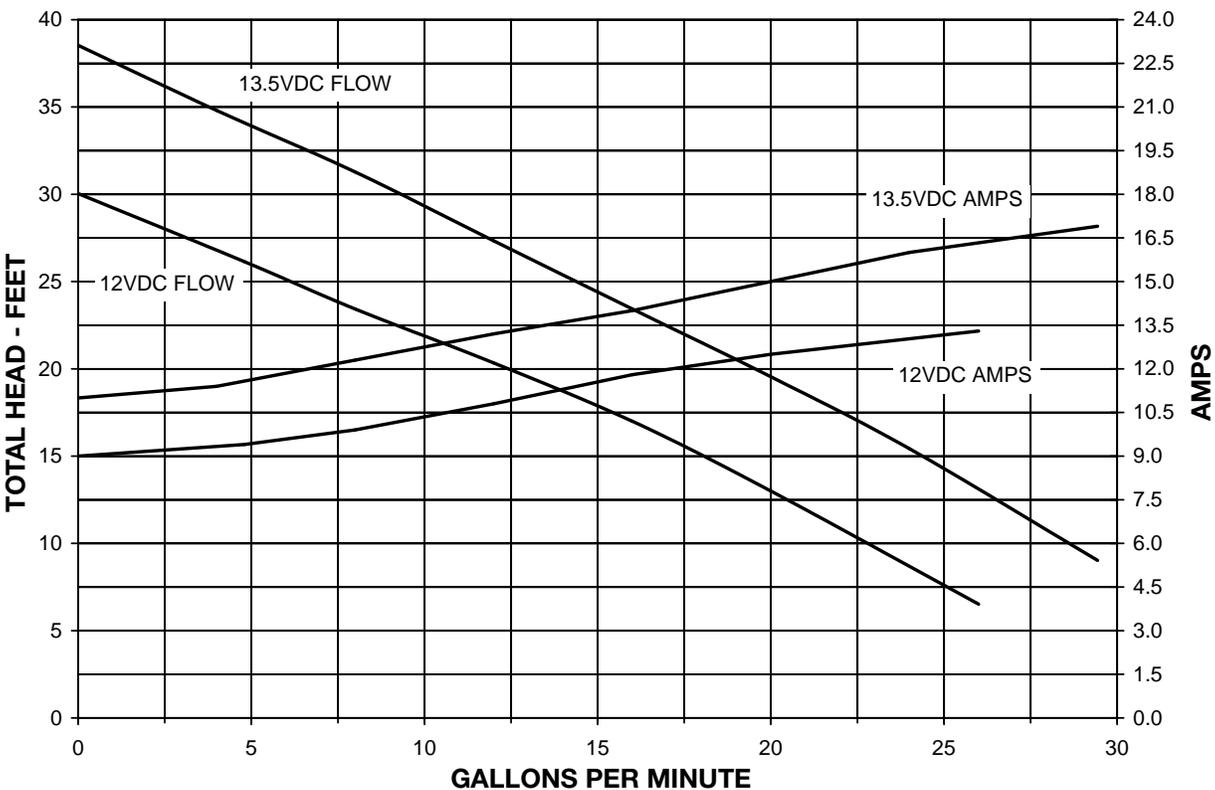
For 24V DC Motor Divide Amps By Two



## FRX 75 12V or 24V Performance Curves

12V DC Motor

For 24V DC Motor Divide Amps By Two



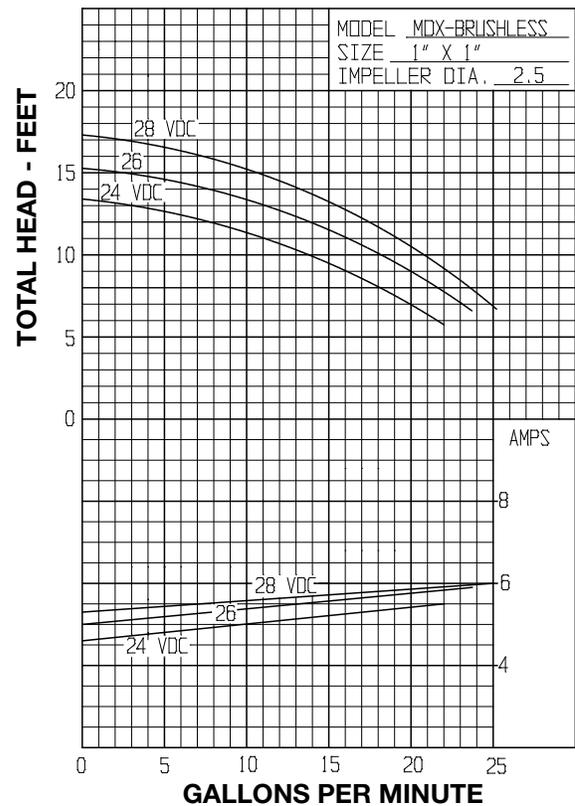
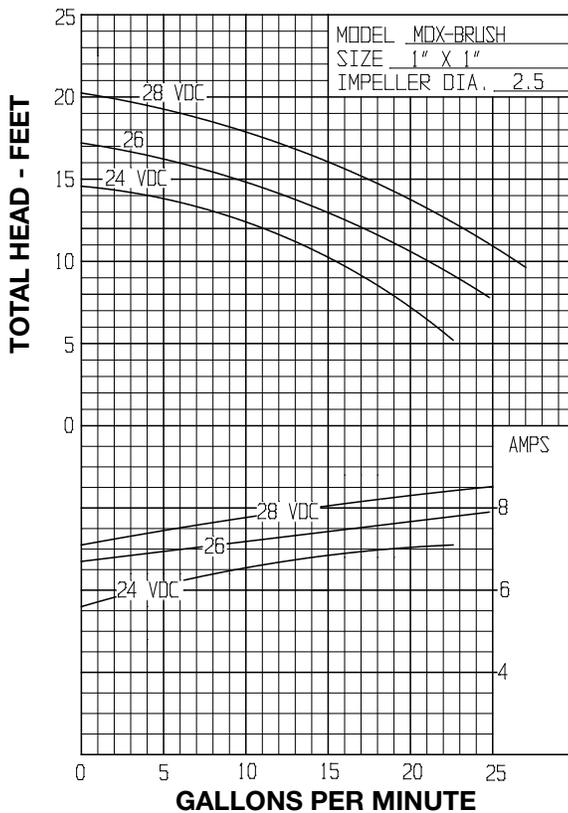


## MDX “Mag Drive” Pump Features

- Brushless And Brush Motors
- Housing Seal: Viton O-Ring
- Housing And Adaptor: 356T-6 Aluminum
- Impeller: Stainless Steel
- Motor Options: 12VDC and 24VDC
- Motor Thermally Protected For Overload Or Overtemperature With Automatic Reset
- Enclosure Is Splash Resistant
- Sealed Control Electronics
- Adjustable Removable Base

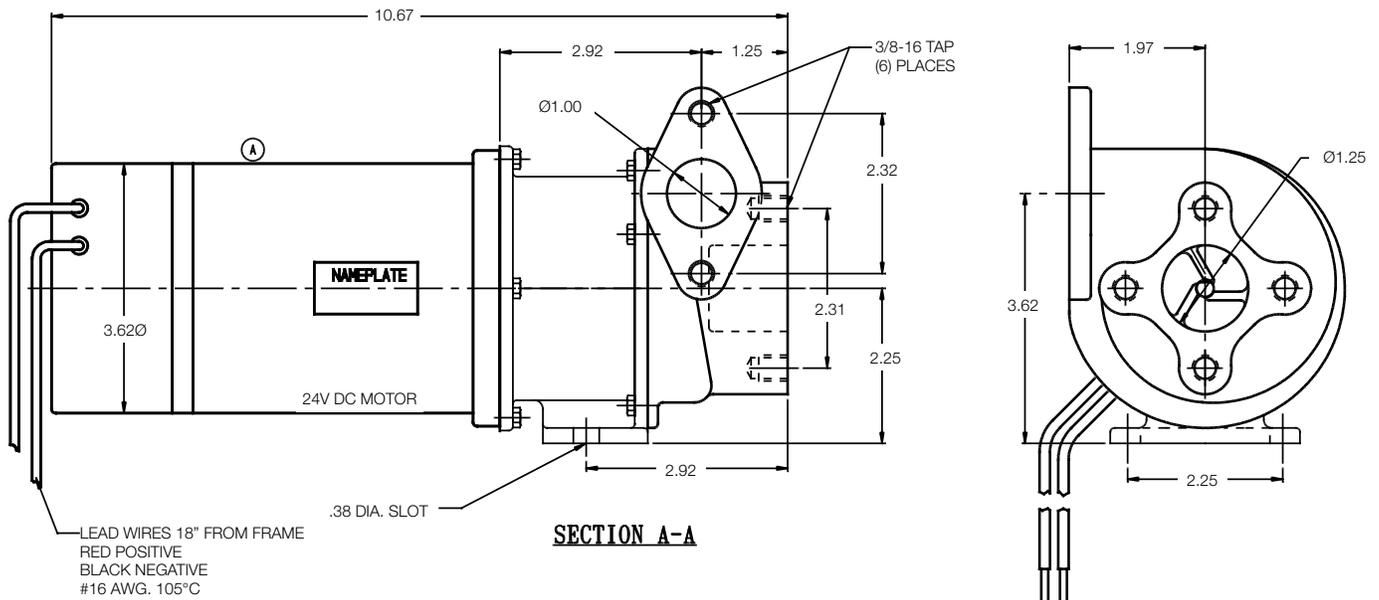


## MDX Pump Performance Curves





## MDX Dimensions



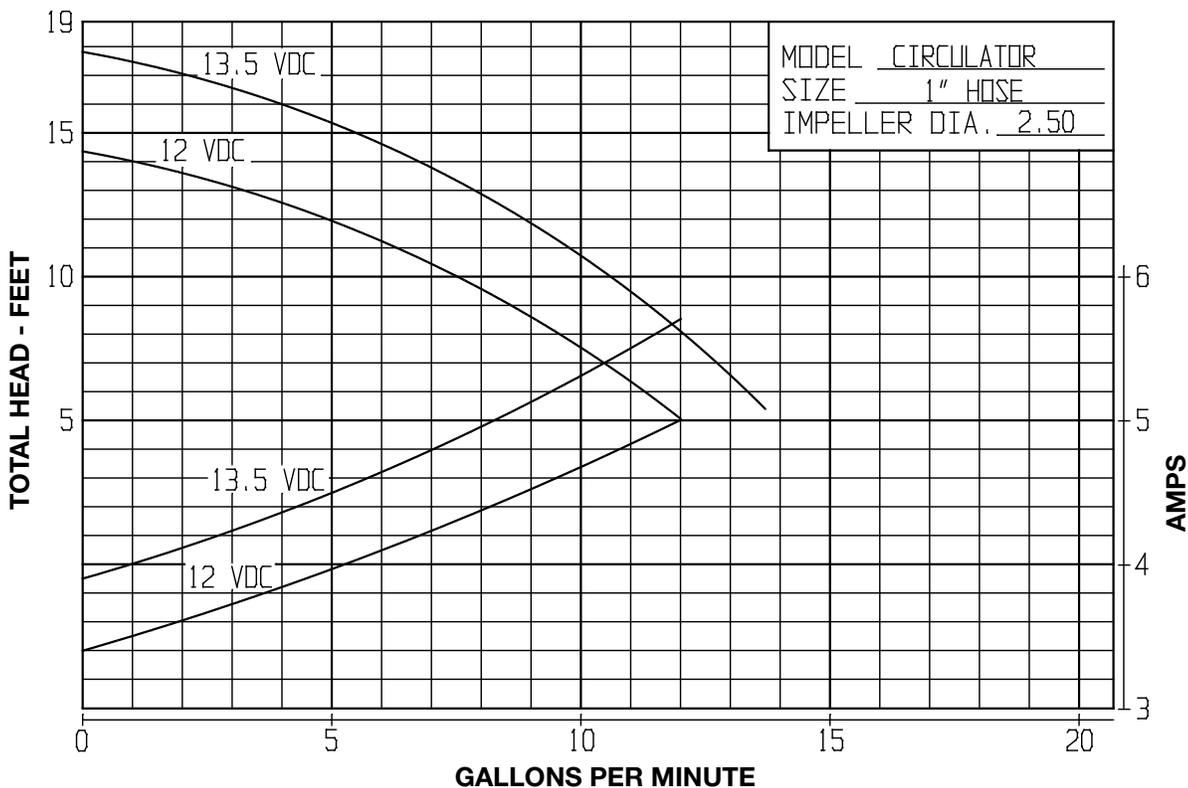


## ILX "Inline" Pump Features

- Aluminum Alloy Construction
- Impeller: Nickel Steel
- Mechanical Seals: Carbon / Ceramic / Buna N
- Ports: 1" I.D. Hose
- Motor Options: 12VDC And 24VDC
- Rigid Base With Vibration Grommets
- 18" 14 AWG Positive And Negative Power Connection Leads

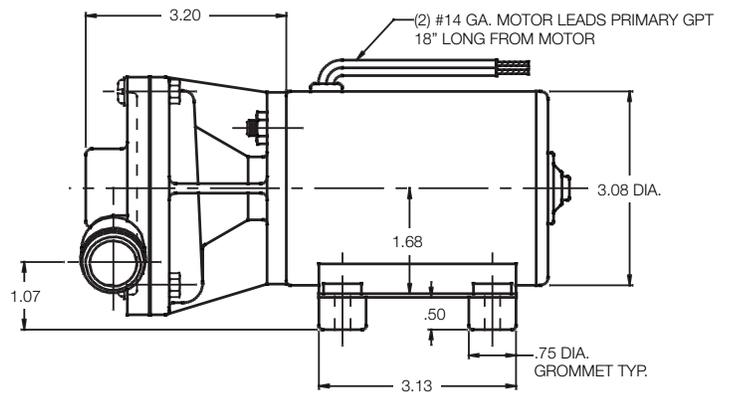
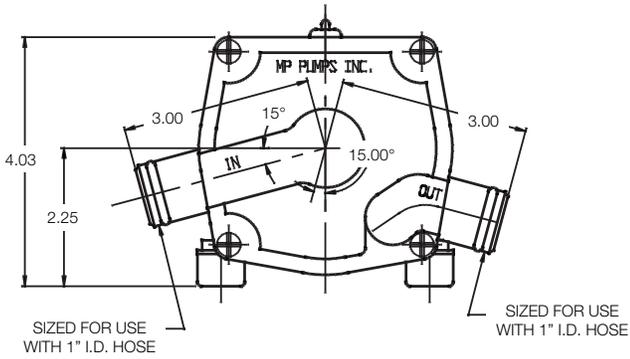


## ILX Performance Curves





## ILX Dimensions



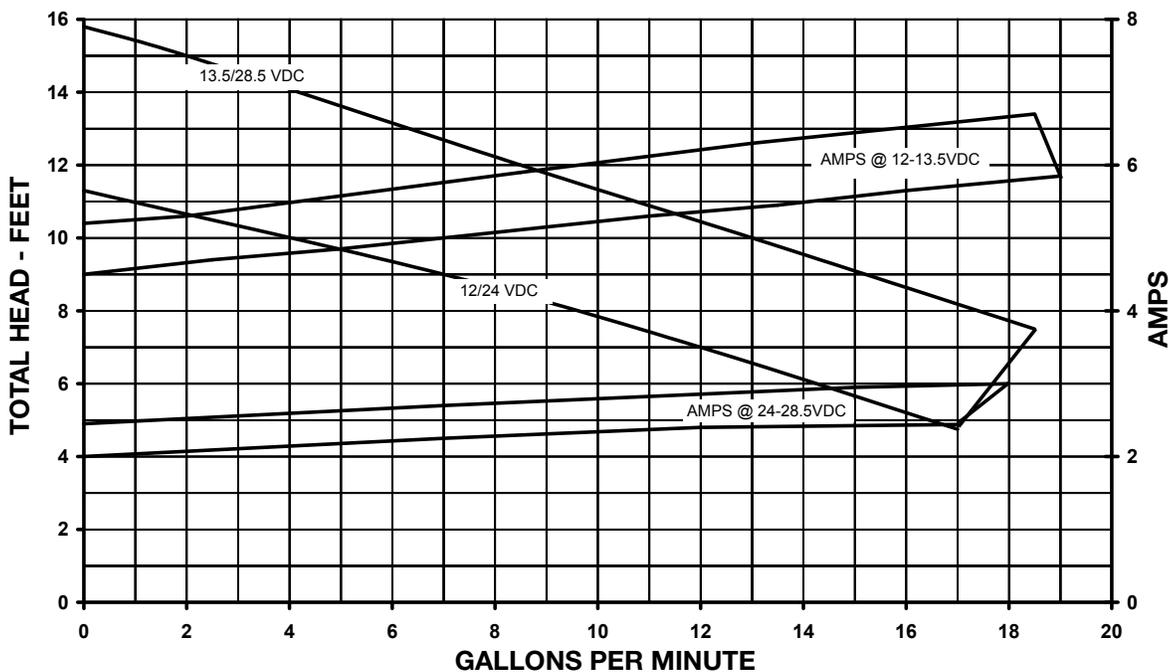


## SBX "School Bus" Pump Features

- Permanent Magnet And Brushless Models
- Gasket: O-Ring
- Mechanical Seals: Carbon / Silicon Carbide, Silicon Carbide / Silicon Carbide And Carbon / Ceramic
- Impeller: Stainless Steel, Nickel Steel
- Motor Options: 12VDC And 24VDC
- Ports: 1-1/8" O.D. Hose
- Rigid Base With Vibration Grommets

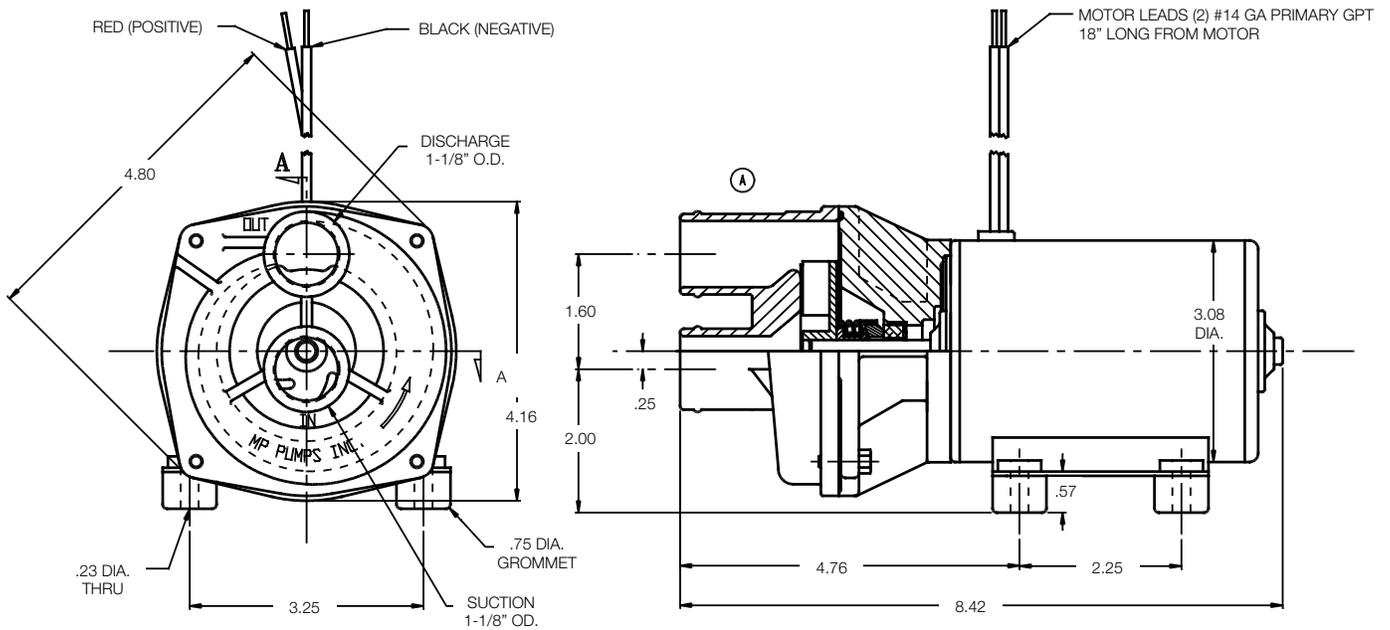


## SBX Pump Performance Curves





## SBX Dimensions





*For almost seven decades, MP Pumps, Inc. has designed and delivered quality pumps, meeting the exact needs of our customers. Our focus on providing new and innovative products for global use is paramount today. These include models for green initiatives, with reduced energy consumption, and with future generations in mind.*

**Gregory G. Peabody**  
President, MP Pumps, Inc.



It's Simple To Contact MP Pumps For Information



**MP Pumps Operates In A Global Marketplace.**

We are keenly aware of the need to provide prompt delivery of our products to customers worldwide and have in place an international network of distributors to meet this need.

*"It is the policy of MP Pumps to satisfy customers by consistently supplying them with products that fully meet their requirements. Customer Satisfaction Today, Tomorrow, Always."*

*— Mission Statement*

Our computerized inventory control system tracks the more than 10,000 parts we stock in our 20,000-square-foot parts warehouse. We also maintain E-mail capability and a site on the worldwide web to speed communication between us, our distributor network and our customers.

**800-563-8006**

(Outside the U.S., 586-293-8240)

FAX: 586-293-8469

**[www.mppumps.com](http://www.mppumps.com)**



## Installation Bulletin

The following parameters should be reviewed prior to installing MP Circulator/Booster pumps.

1. Horizontal mounting is preferred for pumps with mechanical seals. This will enable proper coolant flow path for seal lubrication. NOTE: Damage may occur if pump is mounted in a vertical position with motor underneath the pump.
2. Mounting – For models with flange connections the motor does not require further restraint. For systems that cannot carry the weight of the pump, the motor should be secured with a strap clamp or optional base. NOTE: Caution should be taken to properly align pump, motor and plumbing. Failure to use caution will severely damage the pump and motor and will void warranty.
3. Mounting – For hose connection models the motor should be secured by strap clamp or optional base.
4. Never run the pump dry. Most MP Circulator/Booster pumps are equipped with a mechanical seal that can fail prematurely due to dry run conditions.
5. Locate pump away from ambient temperatures exceeding 200 degrees Fahrenheit. Coolant temperatures in excess of 210°F are also not recommended. High temperatures will reduce life of motor components.
6. Never expose the pump to extremely wet or dirty conditions. Pump should be mounted away from highly contaminated areas or shielded from the environment.
7. Use of additives in cooling systems can cause excessive wear and premature failure. Check with factory on coolant additive usage.
8. 24-volt systems should never exceed 30-volts. 12-volt systems should never exceed 15-volts.

With the use of the above installation parameters, each MP pump should provide many years of trouble-free service. Not considering these installation criteria could cause premature failure and voids warranty.

# MP Pumps, Inc. Limited Warranty For New Pumps Manufactured By MP Pumps

## A. PRODUCTS WARRANTED

MP PUMPS, Inc., a Michigan Company (“MP PUMPS”) subject to the limitations contained below, will at its option, repair or replace, without charge for parts or labor only, any part of a new pump manufactured by MP PUMPS (an “MP Pump”) which is found, upon examination by MP PUMPS’ factory in Fraser, Michigan, to be DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP if received by such factory for such examination within twelve months from the date of sale to the original consumer purchaser.

## B. PRODUCTS AND ITEMS NOT WARRANTED

1. Alterations or Modifications of MP Pump  
All obligations under this warranty shall be terminated if the new MP Pump is altered or modified in any way.
2. Accidents, Normal Maintenance, Failure To Follow MP PUMPS’ Instruction Bulletin.
3. Any MP Pump which is not completely and properly decontaminated prior to return to MP PUMPS.
4. Any MP Pump returned without an identification of the material pumped by your MP Pump on the “Return Goods Authorization Form.”

This warranty covers only parts of a new MP Pump which are found upon examination to be defective in material or workmanship as delivered to the original consumer purchaser. This warranty does not cover defects caused by depreciation or damage caused by normal wear, accidents, improper maintenance, improper use or abuse of the product, failure to follow the instructions contained in an Instruction Bulletin for the operation of the pump and parts. The cost of normal maintenance and replacement of service items which are not defective, shall be paid for by the original consumer purchaser. This warranty is VOID if an MP Pump is not decontaminated prior to return to MP PUMPS or if the material pumped is not identified as provided below.

## C. SECURING WARRANTY SERVICE

Warranty service can be arranged by contacting MP PUMPS, Inc., c/o Service Manager, 34800 Bennett Drive, Fraser, Michigan 48026. Warranty service can only be performed by MP PUMPS at its factory in Fraser, Michigan. At the time of requesting warranty service, evidence must be presented of the date of sale to the original consumer purchaser. MP PUMPS, at its option, will supply you with a “Return Goods Authorization Form” (“RGA”) or will prepare an RGA on your behalf and provide you with an RGA reference number. The product pumped must be identified on the RGA. All parts returned to MP PUMPS for any reason must be completely and properly decontaminated prior to delivery to MP PUMPS. If the product pumped requires a Material Safety Data Sheet (“MSDS”), reference to this fact must be indicated under “Application Information” on the RGA form which must be returned with the part(s) or if an RGA was completed on your behalf you must provide your RGA reference number. A copy of the MSDS must also be included with the returned RGA forms or with your RGA reference number. New or unused parts need not be decontaminated. This fact must be indicated under “Application Information” on the RGA

form which must be returned with the part(s). The original consumer purchaser shall pay any charges for making service calls and/or for transporting the product to and from the place where the inspection and/or warranty work is performed. The part submitted for inspection and/or warranty work will be returned to the sender at the sender’s expense or scrapped at MP PUMPS. No credits will be issued. The original consumer purchaser shall be responsible for any damage or loss incurred in connection with the transportation of the MP Pump and/or of part or parts of the MP Pump submitted for inspection and/or warranty work.

## D. NO ADDITIONAL WARRANTIES OR REPRESENTATIONS

The foregoing EXPRESS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. Neither MP PUMPS nor any of its affiliates make any warranties, representations or promises, written or verbal, as to the quality of the MP PUMP or its parts other than those set forth herein.

ANY IMPLIED WARRANTIES (INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) TO THE EXTENT EITHER APPLIES TO A PART OF AN MP PUMP SHALL BE LIMITED IN DURATION TO THE PERIODS OF THE EXPRESS WARRANTIES AS DEFINED IN PARAGRAPH A. Some States do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

## E. LIMITATION OF DAMAGES

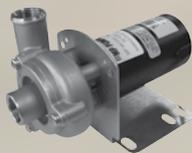
IN NO EVENT WILL MP PUMPS BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES AND/OR EXPENSES. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may have other legal rights which vary from State to State.

## F. NO DISTRIBUTOR/DEALER WARRANTY

MP PUMPS neither assumes nor authorizes any other person, natural or corporate, to assume for MP PUMPS any other obligations or liabilities in connection with or with respect to any part or parts of an MP Pump. The seller, dealer or distributor of a part or parts of an MP Pump has no authority to make any representations or promises on behalf of MP PUMPS or to modify the terms or limitations of this warranty in any way. The seller, dealer or distributor makes no warranty of his own on any item warranted by MP PUMPS and makes no warranty on other items, unless such seller or dealer delivers to the purchaser a separate written warranty document in which the seller or the dealer individually and specifically on its own behalf, warrants the terms of items.



We don't just go with the flow, we create it!™



FRX 50



FRX 50-R



FRX 75



ILX Pump



SBX Pump



MXD Pump

For more information on MP Pumps, Inc. and our products, visit [www.mppumps.com](http://www.mppumps.com).



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