

MTH Pumps DC Series

Centrifugal Pumps

Design Features

- 100% Solid Stainless Construction
- Capacities to 20 GPM
- Heads to 100 Feet (43 PSI)
- Temperatures from -20° to 250°F
- End Suction and Top, Bottom, or Side Discharge
- 12VDC 1HP TENV Motor
- Heavy Duty Mounting Bracket for Mobile Applications

MTH Pumps DC10
(Bottom Discharge viewed)

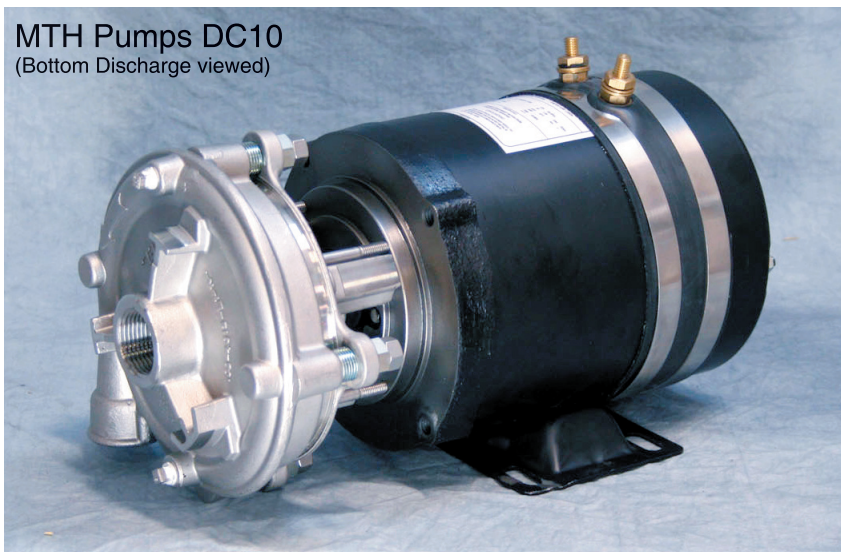
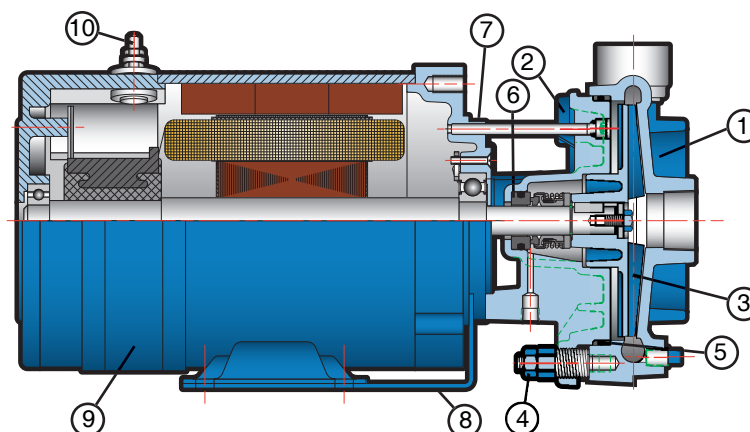


Diagram & Specs

- (1) Stainless Casing
- (2) Stainless Motor Bracket
- (3) Stainless Impeller
- (4) Adjustable Impeller to Casing Clearance
- (5) High-Temp "O" Rings
- (6) Long Lasting Dry Run Mechanical Seal
- (7) Dual Face Motor
- (8) Heavy Duty Stabilizing Bracket
- (9) Compact Totally Enclosed DC Motor
- (10) Easy Access Brass Terminals



Construction Materials

PART	STANDARD CONSTRUCTION	OPTIONAL MATERIALS
Motor Bracket and Casing	Stainless	---
Impeller	Stainless	---
Motor Shaft	Stainless	---
Elastomers	Buna	EPR/Viton
Seals	Carbon/EPR	GLSC
Seats	Ceramic/EPR	GLSC

Optional Features

Seal Flushing Lines can be added for extended life of the Mechanical Seals, especially when pumping fluids that contain solids and debris.

For ease of installation, the pump discharge can be rotated in 90° increments by rotating the casing during the assembly process.

As with all MTH pumps, optional thread types are available to fit your specific requirements.

Limitations

Casing Pressure	200 PSI
Seal Pressure	200 PSI
Suction Pressure (Max.)	100 PSI
Suction Pressure (Min.)	26" Hg Vac.
Speed (Max.)	3600 RPM
Temperature (Max.)	
Ceramic Seal Seat - Water	+230° F
Silicon Carbide Seal Seat & External Seal Flush	+250° F
Horsepower	
12 VDC	1 HP

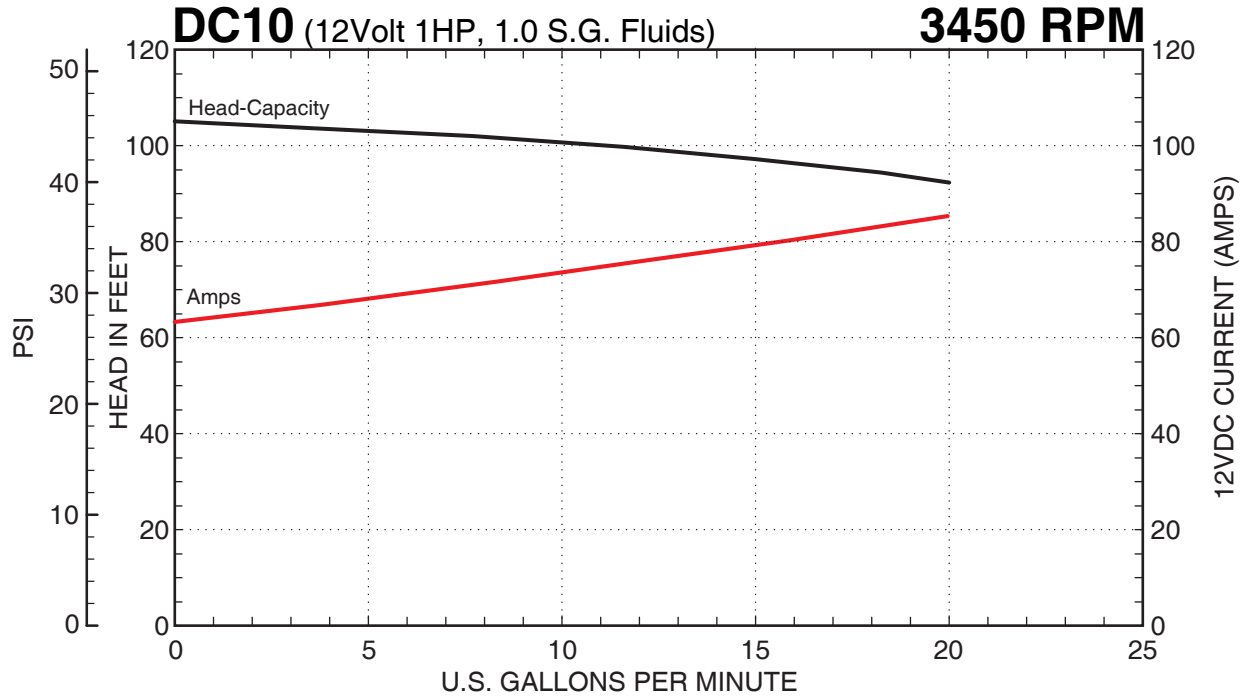


MTH PUMPS

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DC Series

Performance Curves



Design Features

Impeller Design

DC Series semi-open impellers allow the pump to pass small solids and fibrous material while close running tolerances maintain high efficiency and performance. Impellers are pre-trimmed to be non-overloading to the pump and motor size indicated.

balancing techniques to reduce axial thrust and provide longer bearing life.

Mechanical Seal Box

The large seal chamber provides a wide fluid passage area for maximum cooling of the seal faces and allows debris and gases to be flushed away.

allow restoration of performance by closing up the internal clearances that develop over the course of a unit's extended service life.

Heavy Duty Mounting Bracket

DC Series centrifugal pumps come equipped with a heavy duty mounting bracket to help secure the pump and motor under harsh vibration and jarring conditions normally associated with vehicle mounted applications.

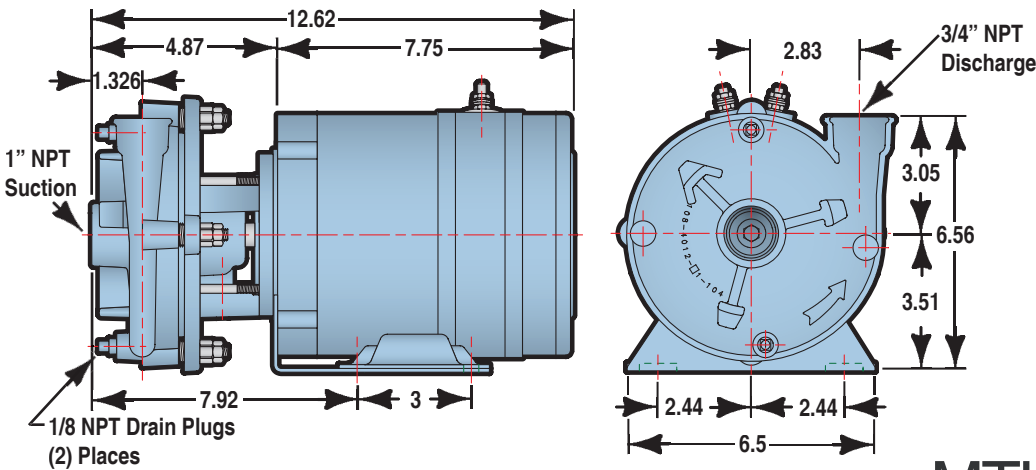
Axial Balance System

The DC Series pumps utilize a thrust balancing system which combines the advantages of both static and dynamic

Adjustable Casing

DC Series pump casings are axially adjustable allowing the use of custom impellers for OEM applications and to

Dimensions



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