

T-Mag™ MAG DRIVE PUMPS



E n h a n c e y o u r p r o c e s s



Knowledge



- We understand your needs and challenges
- We must save you time and money
- We value proven techniques as well as creative ideas
- We combine technical wisdom with common sense
- We take pride in our work

Distribution



- Local service - Worldwide
- Full-stocking, full-service distributors
- Formally educated in specifying and maintaining your system
- Product available immediately
- Local training of your staff

Product



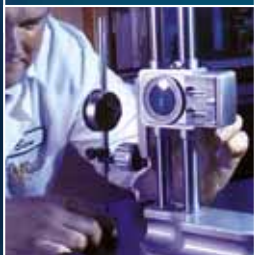
- Designed to maximize your yield
- Engineered for general and specialized applications
- Excels in difficult applications where other pumps fail
- Easy to specify, operate, and maintain
- Put our products to the test

Response



- Committed to servicing you with our entire staff
- Service 24 hours a day / 7 days a week
- Minimize your downtime while increasing your yield
- Spare parts when you need them
- From face time to e-commerce

Quality



- ISO 9001:9002 Registered
- ISO 14001:2004 Registered
- Every pump is performance tested
- Quality is not a program; it is our culture

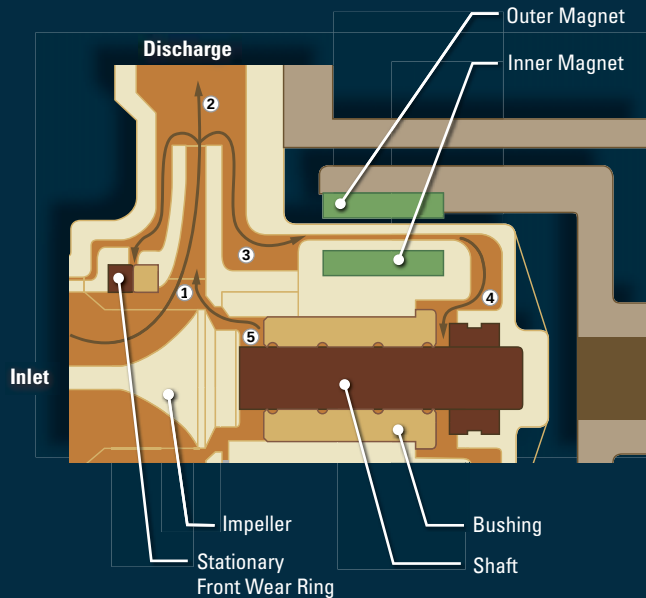
Results



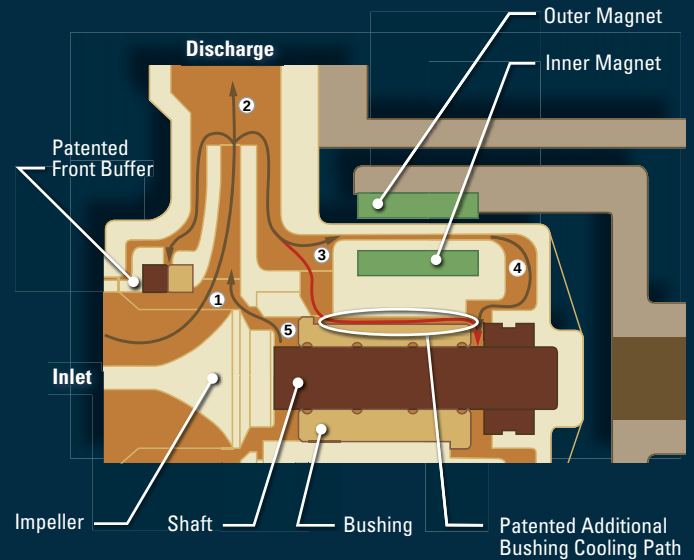
- Wilden tradition of service, quality, and integrity
- Easy to clean, inspect and assemble
- We attack the root cause of the problem, not the symptoms
- Challenge Us



Typical Mag Drive Flow Path



Patented Heat Dispersing Flow Path



The T-Mag™ Mag-Drive pumps in the 0.40 kw (1/2 HP) through 3.75 kw (5 HP) sizes comes standard with a patented additional fluid flow path around the bushing. This additional path allows the process fluid, or air, to cool the bushing of the impeller from the outside, while continuing to offer the

internal spiral cooling channel offered on most magnetic drive centrifugal pumps today. This unique feature prevents the heat build-up that so often damages or completely disables the shaft bushing.



High Efficient Flow Design

The geometry of the impeller and casing are generated through a hydraulic design program. In addition, Computerized Fluid Dynamics (CFD) is used to control the fluid stream pattern, thus reducing hydraulic loss and increasing pump efficiency.

Patented Dry-run Design

The revolutionized bearing design with dual-channel circulation on both inner and outer surfaces of the bearing contributes to rapid heat dissipation. The circulation leakage of the sealless pump is fully utilized to reinforce convectional heat transfer to thermally balance internal temperatures and prevent damage even under dry running conditions.



Integrated CAD/CAE System

Using fully computer aided design and analysis to assist product development, modern design concepts help T-Mag™ products reach the highest technical levels in industry.



Flange Assembly

All models 1 HP and up come with RF type adjustable flanges. The orientation of the flange can be varied to match corresponding bolt holes to facilitate piping installation. The new design can also help to eliminate leakage problems caused by flange deformation.

High Performance Magnetic Coupling

We utilize magnetic field analysis to calculate magnetic torque and maximize magnet utilization to ensure sufficient torque margin to prevent decoupling.



Patented Buffer System

Our innovative dynamic buffer is specially designed to absorb vibrations and shock caused by adverse operating conditions. At the same time, the dynamic buffer is self-adjusting, allowing a better face-to-face contact between the thrust ring and the wear ring, thus minimizing wear and prolonging service life.



NOTE: Buffer system and dry-run design are available on 0.40 kw (1/2 HP) through 3.70 kw (5 HP) models only.

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MAG DRIVE PUMPS

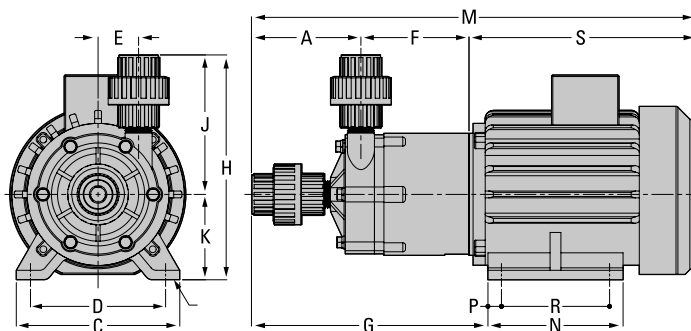


T-Mag™

MAG DRIVE PUMPS

TM1C - 0.06 kW (1/12 HP)

Dimensional Drawing:



Temperature Limits:

GFR-Polypropylene: 0°C to 79°C (32°F to 175°F)
 CFR-PVDF: -12°C to 90°C (10°F to 194°F)
 EPDM: -51°C to 138°C (-60°F to 280°F)
 Viton: -40°C to 177°C (-40°F to 350°F)

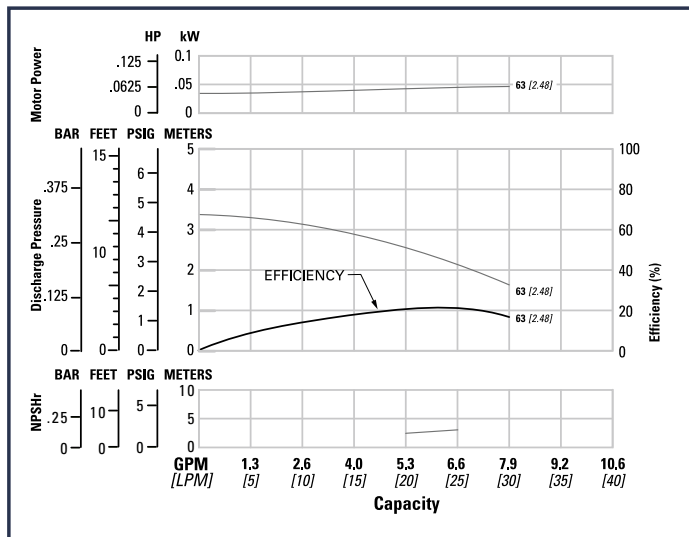
0.06 kW (1/12 HP) [TM4H]

A	B	C	D	E	F	G	H
89 (3.5)	130 (5.1)	225 (8.9)	195 (7.7)	60 (2.4)	142 (5.6)	116 (4.6)	286 (11.3)

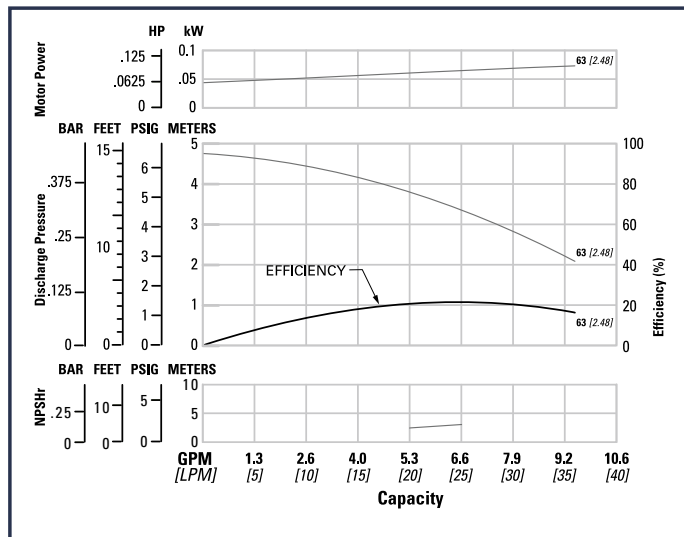
J	K	L	M	N	P	R	S
141 (5.6)	118 (4.6)	25 (1.0)	467 (18.4)	230 (9.1)	25 (1.0)	180 (7.1)	236 (9.3)

Note: The total length & weight of the pump will differ depending on the brand of the motor.

0.06 kW (1/12 HP) - 50 Hz [TM1C]



0.06 kW (1/12 HP) - 60 Hz [TM1C]



Specifications:

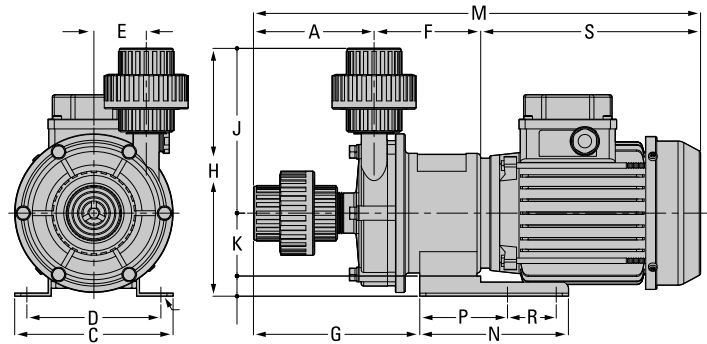
Height.....166 mm (6.5")
 Width.....120 mm (4.8")
 Length.....329 mm (12.9")
 Ship Weight
 GFR-PP.....5 kg (10 lbs)
 CFR-PVDF.....5 kg (10 lbs)
 Fluid Inlet.....13 mm (1/2")
 Fluid Discharge.....13 mm (1/2")

Rated Point:

50 Hz.....18.0 lpm (4.8 gpm)
 0.20 bar (2.9 psig)
 60 Hz.....20.0 lpm (5.3 gpm)
 0.24 bar (4.2 psig)

All curves based upon pumping water at sea level, specific gravity 1.0, ambient temperature 20°C (68°F).

NOTE: Numbers shown to far right of all performance lines denote the diameter of the pump impeller [millimeters (inches)]. Consult factory for availability of impeller trim sizes other than shown.

**TM2F - 0.19 kW (1/4 HP)****Dimensional Drawing:****Temperature Limits:**

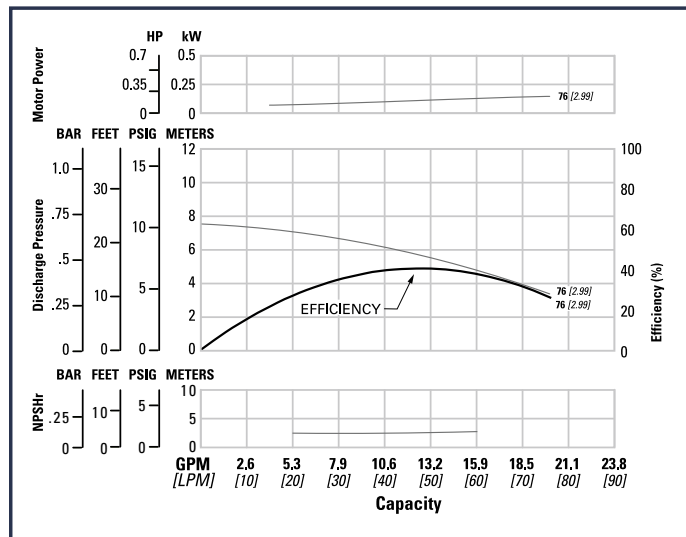
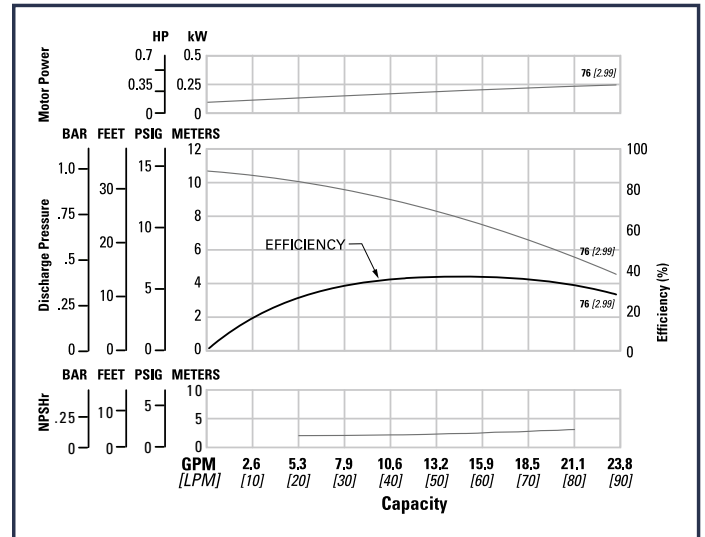
GFR-Polypropylene: 0°C to 79°C (32°F to 175°F)
 CFR-PVDF: -12°C to 90°C (10°F to 194°F)
 EPDM: -51°C to 138°C (-60°F to 280°F)
 Viton: -40°C to 177°C (-40°F to 350°F)

0.19 kW (1/4 HP) [TM4H]

A	B	C	D	E	F	G	H
89 (3.5)	130 (5.1)	225 (8.9)	195 (7.7)	60 (2.4)	142 (5.6)	116 (4.6)	286 (11.3)

J	K	L	M	N	P	R	S
141 (5.6)	118 (4.6)	25 (1.0)	467 (18.4)	230 (9.1)	25 (1.0)	180 (7.1)	236 (9.3)

Note: The total length & weight of the pump will differ depending on the brand of the motor.

0.19 kW (1/4 HP) - 50 Hz [TM2F]**0.19 kW (1/4 HP) - 60 Hz [TM2F]****Specifications:**

Height.....203 mm (7.9")
 Width.....130 mm (5.1")
 Length.....367 mm (14.4")
 Ship Weight
 GFR-PP.....10 kg (20 lbs)
 CFR-PVDF.....10 kg (20 lbs)
 Fluid Inlet.....25 mm (1")
 Fluid Discharge.....25 mm (1")

Rated Point:

50 Hz.....60.0 lpm (15.9 gpm)
 0.49 bar (7.1 psig)
 60 Hz.....60.0 lpm (15.9 gpm)
 0.74 bar (10.7 psig)

All curves based upon pumping water at sea level, specific gravity 1.0, ambient temperature 20°C (68°F).

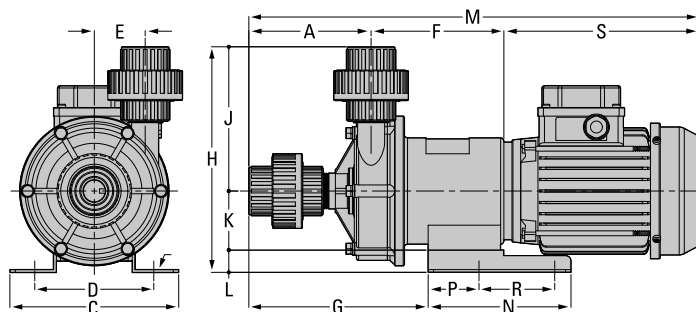
NOTE: Numbers shown to far right of all performance lines denote the diameter of the pump impeller [millimeters (inches)]. Consult factory for availability of impeller trim sizes other than shown.

T-Mag™

MAG DRIVE PUMPS

TM2G - 0.25 kW (1/3 HP)

Dimensional Drawing:



Temperature Limits:

GFR-Polypropylene: 0°C to 79°C (32°F to 175°F)
 CFR-PVDF: -12°C to 90°C (10°F to 194°F)
 EPDM: -51°C to 138°C (-60°F to 280°F)
 Viton: -40°C to 177°C (-40°F to 350°F)

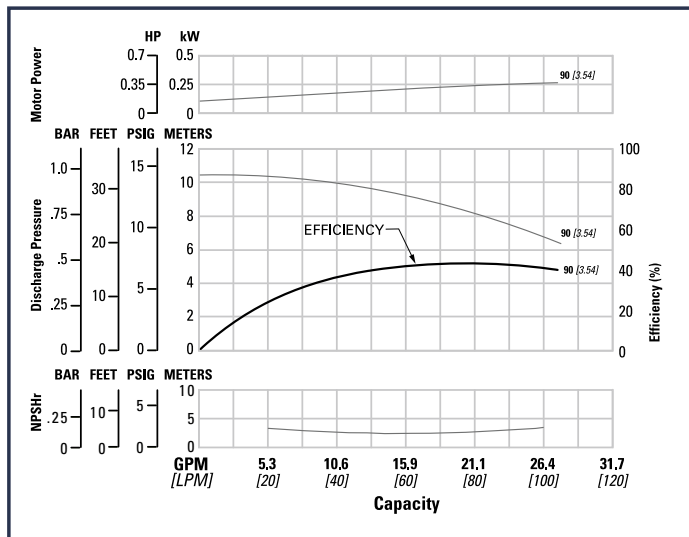
0.25 kW (1/3 HP) [TM4H]

A	B	C	D	E	F	G	H
89 (3.5)	130 (5.1)	225 (8.9)	195 (7.7)	60 (2.4)	142 (5.6)	116 (4.6)	286 (11.3)

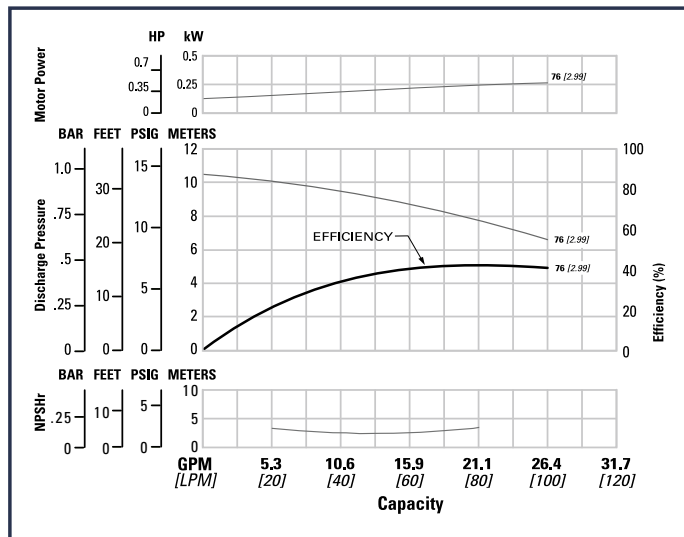
J	K	L	M	N	P	R	S
141 (5.6)	118 (4.6)	25 (1.0)	467 (18.4)	230 (9.1)	25 (1.0)	180 (7.1)	236 (9.3)

Note: The total length & weight of the pump will differ depending on the brand of the motor.

0.25 kW (1/3 HP) - 50 Hz [TM2G]



0.25 kW (1/3 HP) - 60 Hz [TM2G]



Specifications:

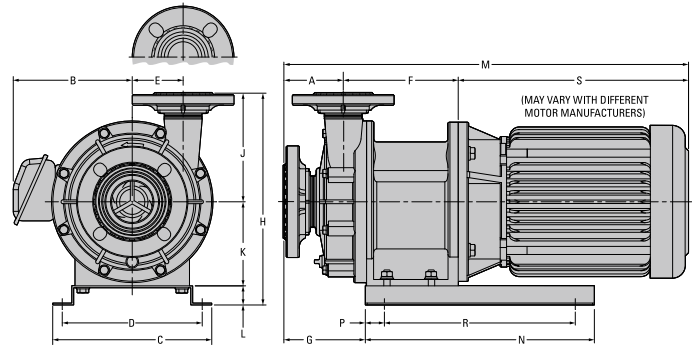
Height..... 208 mm (8.2")
 Width..... 156 mm (6.1")
 Length 416 mm (16.3")
 Ship Weight
 GFR-PP..... 11 kg (24 lbs)
 CFR-PVDF..... 11 kg (24 lbs)
 Fluid Inlet..... 25 mm (1")
 Fluid Discharge..... 25 mm (1")

Rated Point:

50 Hz..... 80.0 lpm (21.1 gpm)
 0.59 bar (8.6 psig)
 60 Hz..... 80.0 lpm (21.1 gpm)
 0.71 bar (10.3 psig)

All curves based upon pumping water at sea level, specific gravity 1.0, ambient temperature 20°C (68°F).

NOTE: Numbers shown to far right of all performance lines denote the diameter of the pump impeller [millimeters (inches)]. Consult factory for availability of impeller trim sizes other than shown.

**TM4H - 0.40 kW (1/2 HP)****Dimensional Drawing:****Temperature Limits:**

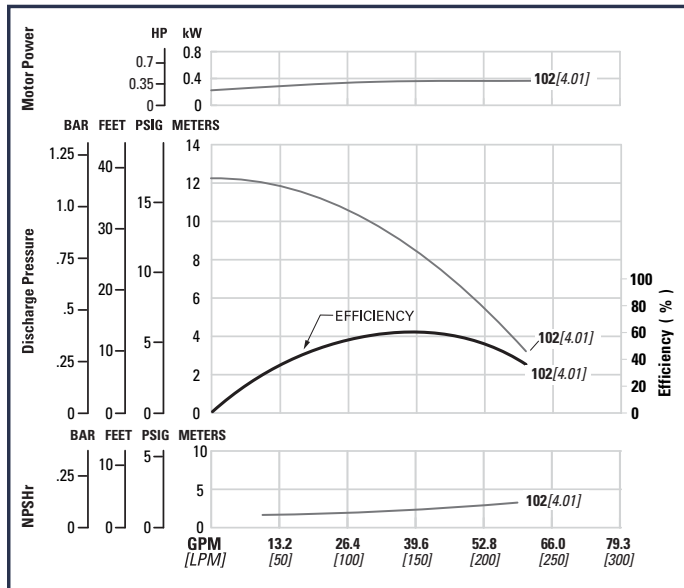
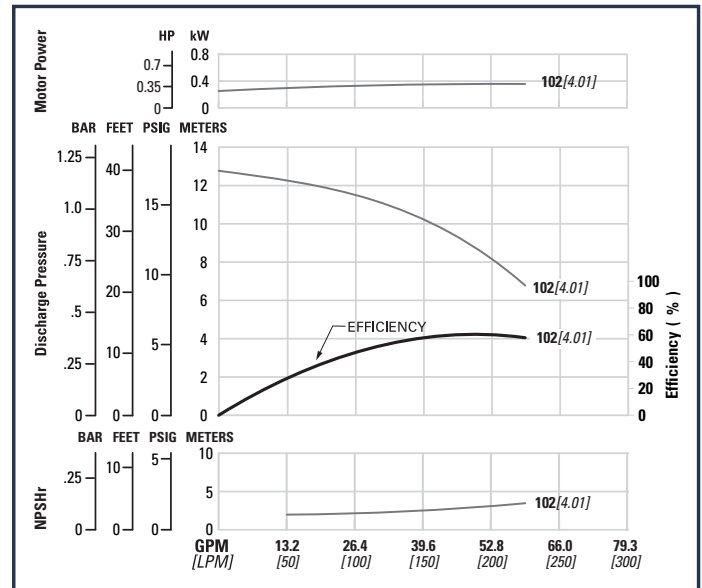
GFR-Polypropylene: 0°C to 79°C (32°F to 175°F)
 CFR-ETFE: -100°C to 100°C (148°F to 212°F)
 EPDM: -51°C to 138°C (-60°F to 280°F)
 Viton: -40°C to 177°C (-40°F to 350°F)

0.40 kW (1/2 HP) [TM4H]

A	B	C	D	E	F	G	H
89 (3.5)	130 (5.1)	225 (8.9)	195 (7.7)	60 (2.4)	142 (5.6)	116 (4.6)	286 (11.3)

J	K	L	M	N	P	R	S
141 (5.6)	118 (4.6)	25 (1.0)	467 (18.4)	230 (9.1)	25 (1.0)	180 (7.1)	236 (9.3)

Note: The total length & weight of the pump will differ depending on the brand of the motor.

0.40 kW (1/2 HP) - 50 Hz [TM4H]**0.40 kW (1/2 HP) - 60 Hz [TM4H]****Specifications:**

Height.....286 mm (11.3")
 Width.....260 mm (10.2")
 Length.....467 mm (18.4")
 Ship Weight
 GFR-PP.....18 kg (40 lbs)
 CFR-ETFE.....19 kg (42 lbs)
 Fluid Inlet.....38 mm (1-1/2")
 Fluid Discharge.....38 mm (1-1/2")

Rated Point:

50 Hz.....100 lpm (26 gpm)
 0.4 bar (6.0 psig)
 60 Hz.....125 lpm (33 gpm)
 0.68 bar (9.9 psig)

All curves based upon pumping water at sea level, specific gravity 1.0, ambient temperature 20°C (68°F).

NOTE: Numbers shown to far right of all performance lines denote the diameter of the pump impeller [millimeters (inches)]. Consult factory for availability of impeller trim sizes other than shown.

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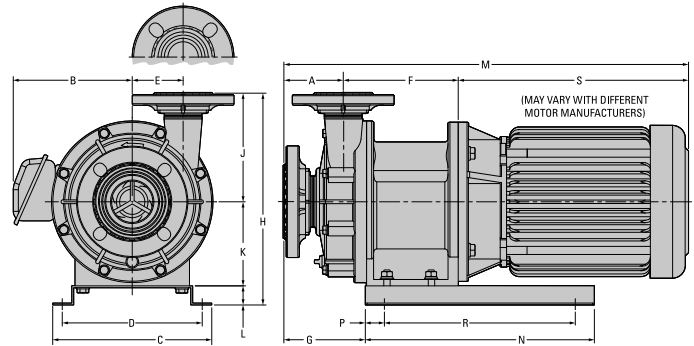
MAG DRIVE PUMPS





TM4K - 0.75 kW (1 HP)

Dimensional Drawing:



Temperature Limits:

GFR-Polypropylene: 0°C to 79°C (32°F to 175°F)
 CFR-ETFE: -100°C to 100°C (148°F to 212°F)
 EPDM: -51°C to 138°C (-60°F to 280°F)
 Viton: -40°C to 177°C (-40°F to 350°F)

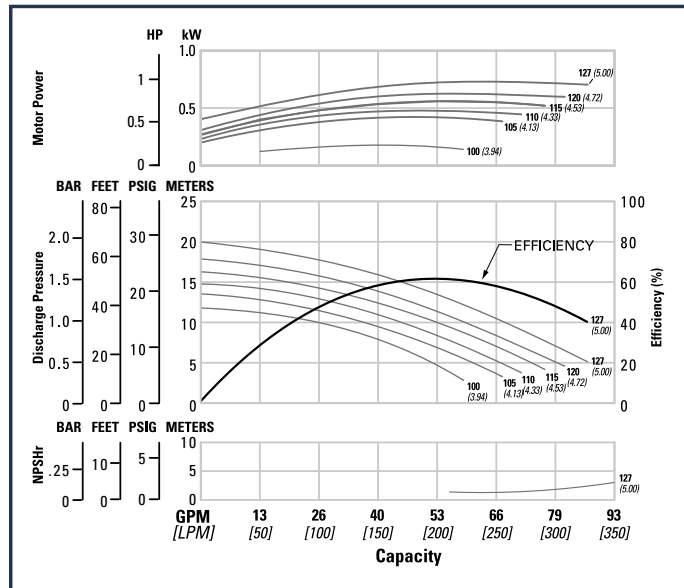
0.75 kW (1 HP) [TM4K]

A	B	C	D	E	F	G	H
131 (5.2)	142 (5.6)	160 (6.3)	130 (5.1)	72 (2.8)	146 (5.7)	150 (5.9)	256 (10.1)

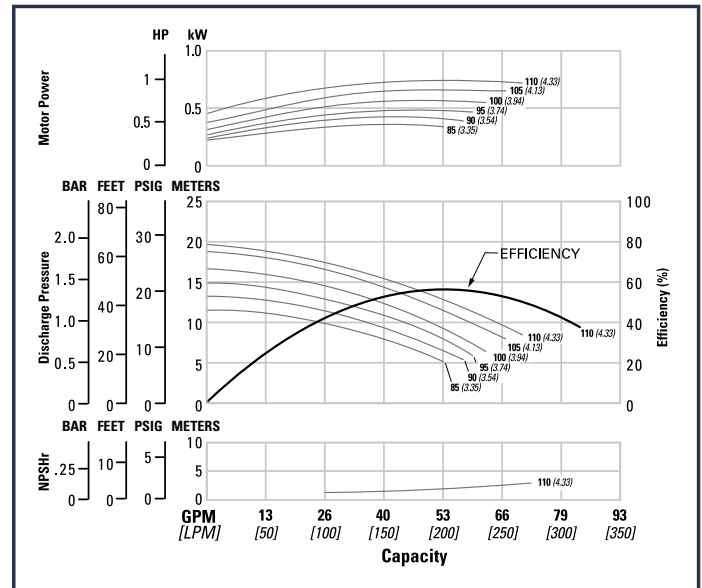
J	K	L	M	N	P	R	S
141 (5.6)	85 (3.3)	30 (1.2)	481 (18.9)	210 (8.3)	35 (1.4)	130 (5.10)	232 (9.1)

Note: The total length & weight of the pump will differ depending on the brand of the motor.

0.75 kW (1 HP) - 50 Hz [TM4K]



0.75 kW (1 HP) - 60 Hz [TM4K]



Specifications:

Height.....256 mm (10.1")
 Width.....284 mm (11.2")
 Length.....481 mm (18.9")
 Ship Weight
 GFR-PP.....24 kg (53 lbs)
 CFR-ETFE.....25 kg (55 lbs)
 Fluid Inlet.....38 mm (1-1/2")
 Fluid Discharge.....38 mm (1-1/2")

Rated Point:

50 Hz.....150 lpm (39.6 gpm)
 1.57 bar (22.8 psig)
 60 Hz.....150 lpm (39.6 gpm)
 1.51 bar (21.9 psig)

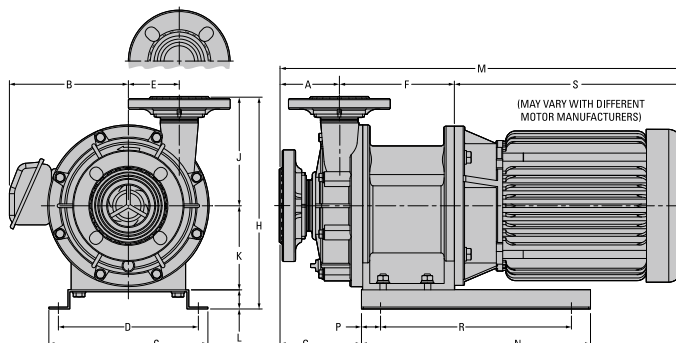
All curves based upon pumping water at sea level, specific gravity 1.0, ambient temperature 20°C (68°F).

NOTE: Numbers shown to far right of all performance lines denote the diameter of the pump impeller [millimeters (inches)]. Consult factory for availability of impeller trim sizes other than shown.



TM6L - 1.50 kW (2 HP)

Dimensional Drawing:



Temperature Limits:

GFR-Polypropylene: 0°C to 79°C (32°F to 175°F)
 CFR-PVDF: -100°C to 100°C (148°F to 212°F)
 EPDM: -51°C to 138°C (-60°F to 280°F)
 Viton: -40°C to 177°C (-40°F to 350°F)

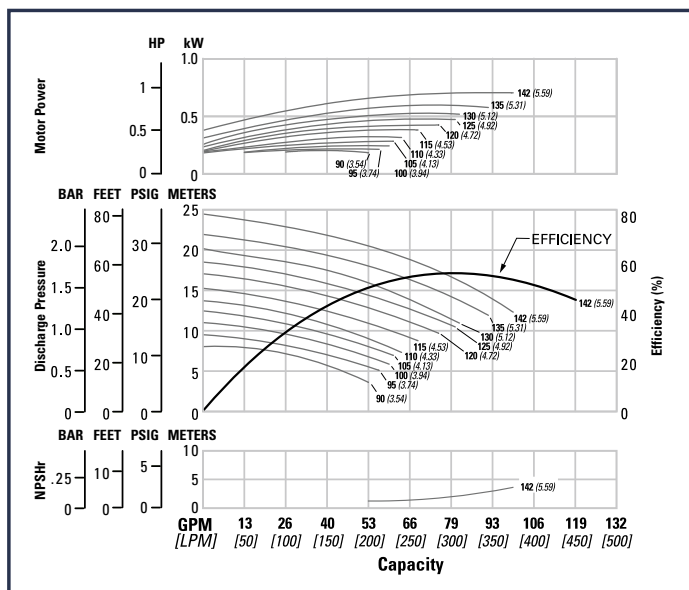
1.5 kW (2 HP) [TM6L]

A	B	C	D	E	F	G	H
90 (3.5)	155 (6.1)	260 (10.2)	204 (8.0)	80 (3.1)	160 (6.3)	138 (5.4)	281 (11.1)

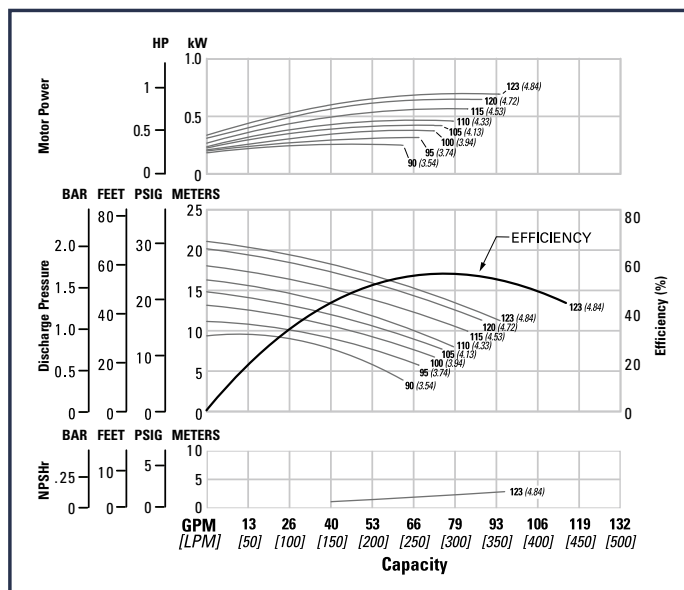
J	K	L	M	N	P	R	S
161 (6.3)	90 (3.5)	30 (1.2)	564 (22.2)	300 (11.8)	20 (0.8)	200 (7.9)	311 (12.2)

Note: The total length & weight of the pump will differ depending on the brand of the motor.

1.5 kW (2 HP) - 50 Hz [TM6L]



1.5 kW (2 HP) - 60 Hz [TM6L]



Specifications:

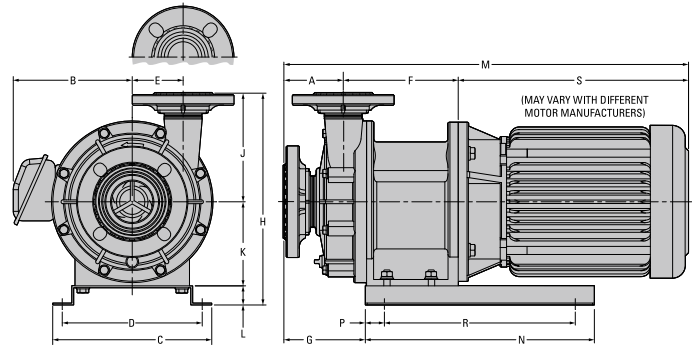
Height.....281 mm (11.1")
 Width.....305 mm (12.0")
 Length.....564 mm (22.2")
 Ship Weight
 GFR-PP.....35 kg (77 lbs)
 CFR-ETFE.....36 kg (79 lbs)
 Fluid Inlet.....51 mm (2")
 Fluid Discharge.....38 mm (1-1/2")

Rated Point:

50 Hz.....200 lpm (52.8 gpm)
 2.02 bar (29.3 psig)
 60 Hz.....200 lpm (52.8 gpm)
 1.99 bar (28.9 psig)

All curves based upon pumping water at sea level, specific gravity 1.0, ambient temperature 20°C (68°F).

NOTE: Numbers shown to far right of all performance lines denote the diameter of the pump impeller [millimeters (inches)]. Consult factory for availability of impeller trim sizes other than shown.

**TM6M - 2.20 kW (3 HP)****Dimensional Drawing:****Temperature Limits:**

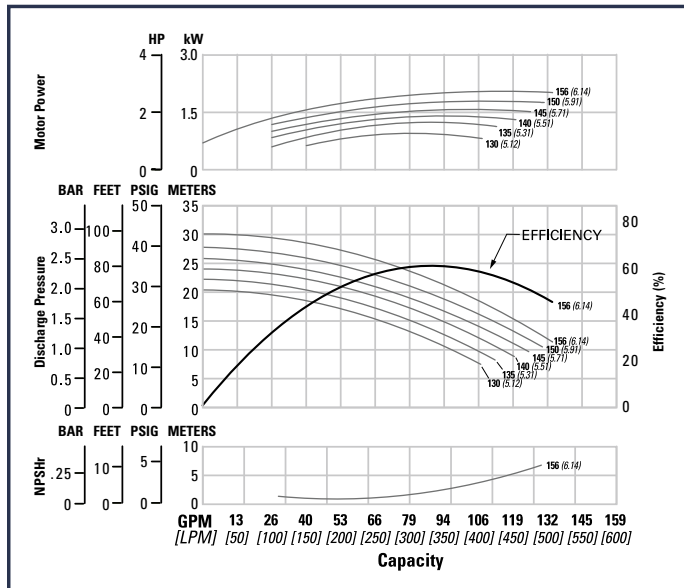
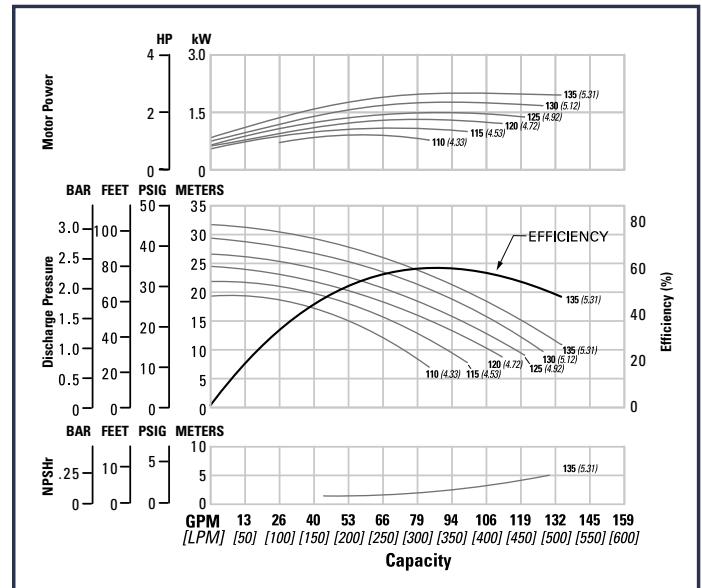
GFR-Polypropylene: 0°C to 79°C (32°F to 175°F)
 CFR-PVDF: -100°C to 100°C (148°F to 212°F)
 EPDM: -51°C to 138°C (-60°F to 280°F)
 Viton: -40°C to 177°C (-40°F to 350°F)

2.20 kW (3 HP) [TM6M]

A	B	C	D	E	F	G	H
90 (3.5)	155 (6.1)	260 (10.2)	204 (8.0)	80 (3.1)	160 (6.3)	138 (5.4)	281 (11.1)

J	K	L	M	N	P	R	S
161 (6.3)	90 (3.5)	30 (1.2)	564 (22.2)	300 (11.8)	20 (0.8)	200 (7.9)	311 (12.2)

Note: The total length & weight of the pump will differ depending on the brand of the motor.

2.20 kW (3 HP) - 50 Hz [TM6M]**2.20 kW (3 HP) - 60 Hz [TM6M]****Specifications:**

Height.....281 mm (11.1")
 Width.....305 mm (12.0")
 Length.....564 mm (22.2")
 Ship Weight
 GFR-PP.....37 kg (82 lbs)
 CFR-ETFE.....37 kg (84 lbs)
 Fluid Inlet.....51 mm (2")
 Fluid Discharge.....38 mm (1-1/2")

Rated Point:

50 Hz.....250 lpm (66.0 gpm)
 2.53 bar (36.7 psig)
 60 Hz.....250 lpm (66.0 gpm)
 2.57 bar (37.3 psig)

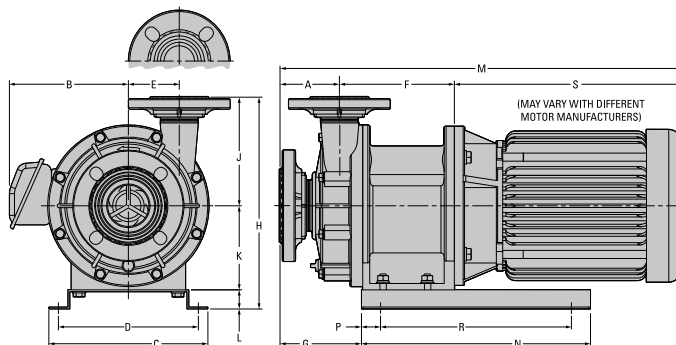
All curves based upon pumping water at sea level, specific gravity 1.0, ambient temperature 20°C (68°F).

NOTE: Numbers shown to far right of all performance lines denote the diameter of the pump impeller [millimeters (inches)]. Consult factory for availability of impeller trim sizes other than shown.



TM6N - 3.70 kW (5 HP)

Dimensional Drawing:



Temperature Limits:

GFR-Polypropylene: 0°C to 79°C (32°F to 175°F)
 CFR-ETFE: -100°C to 100°C (148°F to 212°F)
 EPDM: -51°C to 138°C (-60°F to 280°F)
 Viton: -40°C to 177°C (-40°F to 350°F)

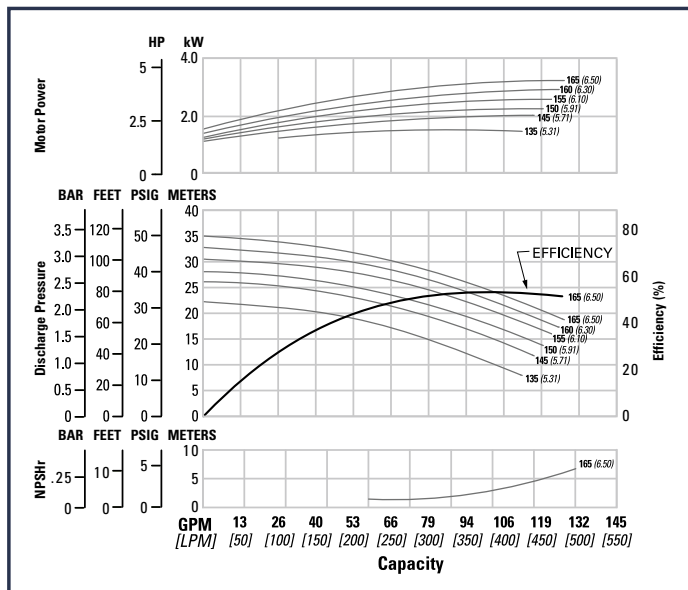
3.70 kW (5 HP) [TM6N]

A	B	C	D	E	F	G	H
90 (3.5)	187 (7.4)	250 (9.8)	220 (8.7)	80 (3.1)	175 (6.9)	119 (4.7)	323 (12.7)

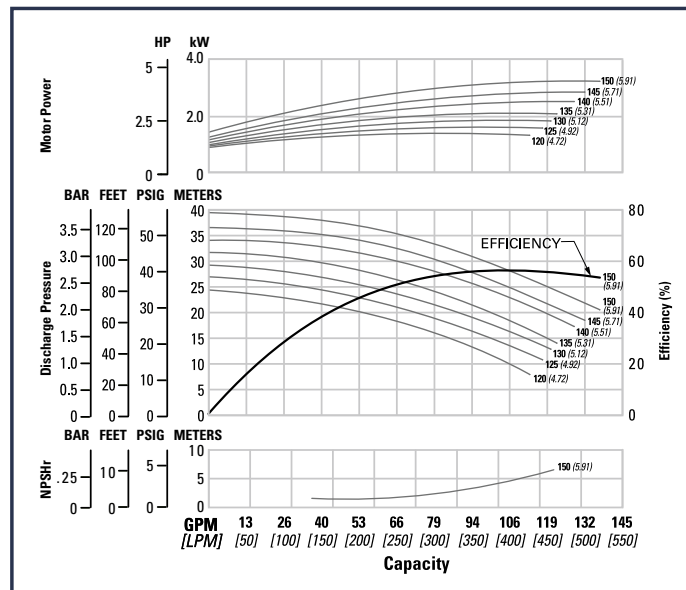
J	K	L	M	N	P	R	S
161 (6.3)	132 (5.2)	30 (1.2)	627 (24.7)	360 (14.2)	30 (1.2)	300 (11.8)	362 (14.3)

Note: The total length & weight of the pump will differ depending on the brand of the motor.

3.70 kW (5 HP) - 50 Hz [TM6N]



3.70 kW (5 HP) - 60 Hz [TM6N]



Specifications:

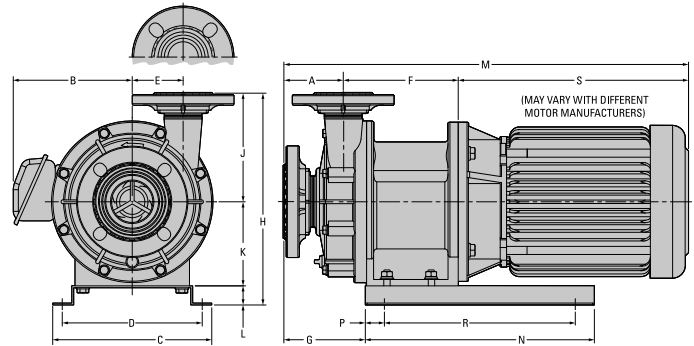
Height.....323 mm (12.7")
 Width.....337 mm (13.3")
 Length.....627 mm (24.7")
 Ship Weight
 GFR-PP.....53 kg (117 lbs)
 CFR-ETFE.....54 kg (119 lbs)
 Fluid Inlet.....51 mm (2")
 Fluid Discharge.....38 mm (1-1/2")

Rated Point:

50 Hz.....250 lpm (66.0 gpm)
 2.96 bar (43.0 psig)
 60 Hz.....250 lpm (66.0 gpm)
 3.47 bar (50.4 psig)

All curves based upon pumping water at sea level, specific gravity 1.0, ambient temperature 20°C (68°F).

NOTE: Numbers shown to far right of all performance lines denote the diameter of the pump impeller [millimeters (inches)]. Consult factory for availability of impeller trim sizes other than shown.

**TM10N - 3.70 kW (5 HP)****Dimensional Drawing:****Temperature Limits:**

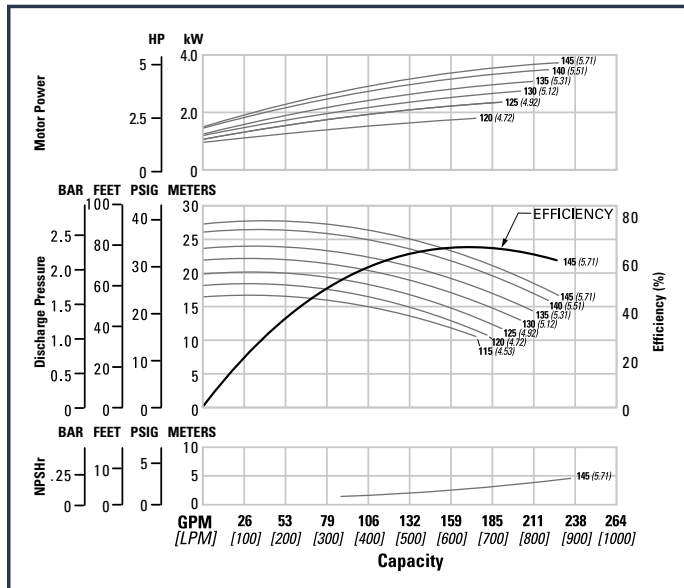
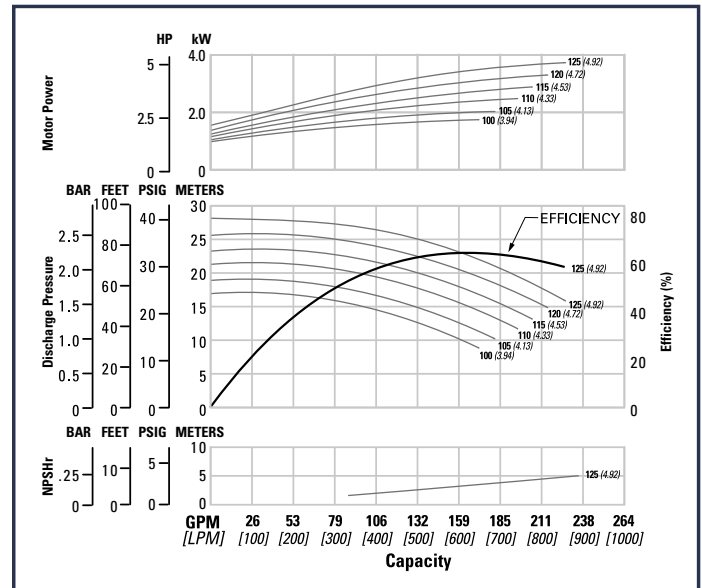
GFR-Polypropylene: 0°C to 79°C (32°F to 175°F)
 CFR-ETFE: -100°C to 100°C (148°F to 212°F)
 EPDM: -51°C to 138°C (-60°F to 280°F)
 Viton: -40°C to 177°C (-40°F to 350°F)

3.70 kW (5 HP) [TM10N]

A	B	C	D	E	F	G	H
94 (3.7)	187 (7.4)	250 (9.8)	220 (8.7)	80 (3.1)	180 (7.1)	128 (5.0)	323 (12.7)

J	K	L	M	N	P	R	S
171 (6.7)	132 (5.2)	30 (1.2)	636 (25.0)	360 (14.2)	30 (1.2)	300 (11.8)	362 (14.3)

Note: The total length & weight of the pump will differ depending on the brand of the motor.

3.70 kW (5 HP) - 50 Hz [TM10N]**3.70 kW (5 HP) - 60 Hz [TM10N]****Specifications:**

Height.....333 mm (13.1")
 Width.....347 mm (13.7")
 Length.....636 mm (25.0")
 Ship Weight
 GFR-PP.....53 kg (117 lbs)
 CFR-ETFE.....54 kg (119 lbs)
 Fluid Inlet.....64 mm (2-1/2")
 Fluid Discharge.....51 mm (2")

Rated Point:

50 Hz.....500 lpm (132 gpm)
 2.49 bar (36.1 psig)
 60 Hz.....500 lpm (132 gpm)
 2.47 bar (35.8 psig)

All curves based upon pumping water at sea level, specific gravity 1.0, ambient temperature 20°C (68°F).

NOTE: Numbers shown to far right of all performance lines denote the diameter of the pump impeller [millimeters (inches)]. Consult factory for availability of impeller trim sizes other than shown.

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