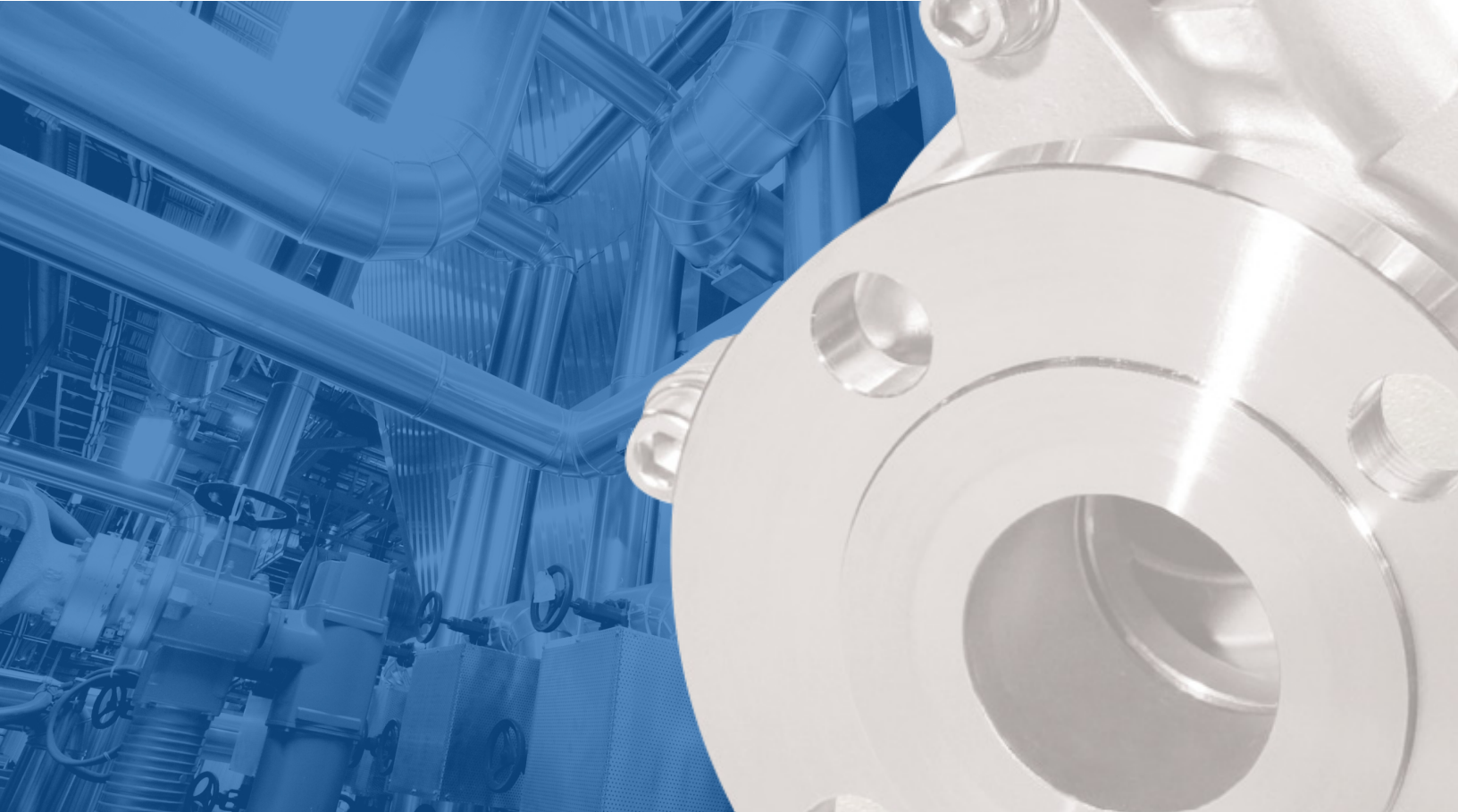


# IWAKI

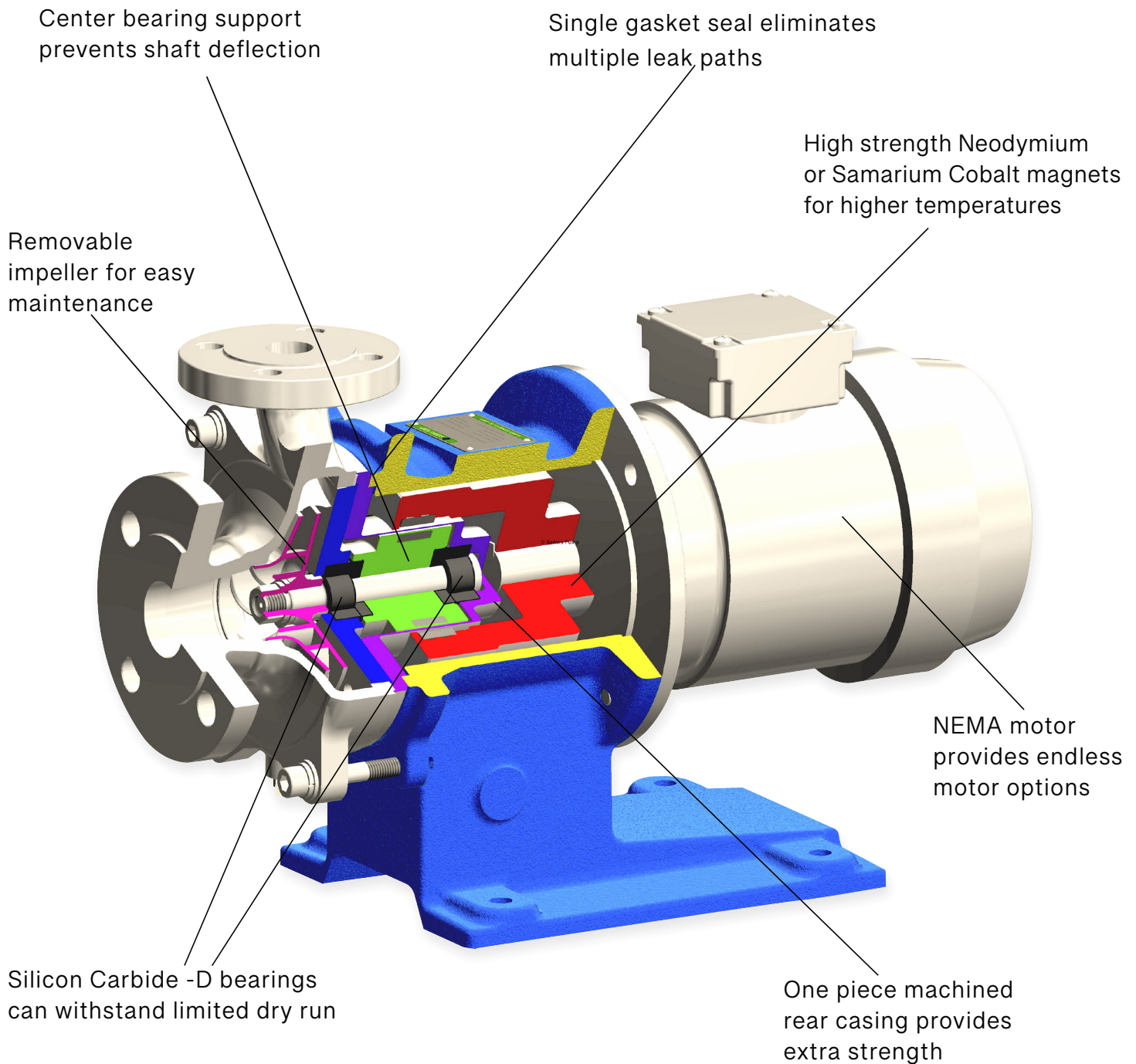
## Metallic Centrifugal **Magnetic Drive Pumps**

| SANWA SERIES



316 STAINLESS STEEL  
SEALLESS  
CORROSION RESISTANT  
LEAK FREE





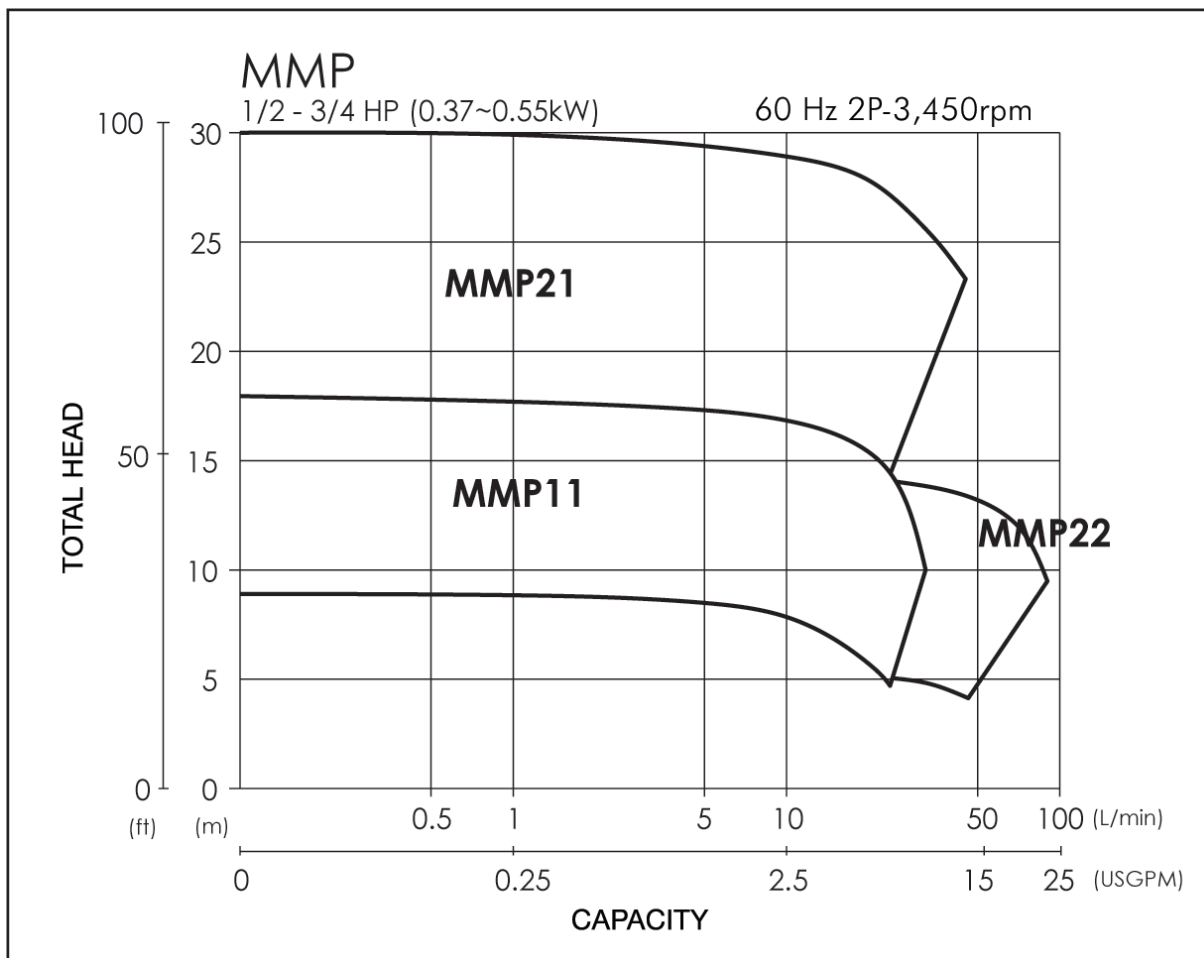
**Iwaki Sanwa Pumps** feature 316 Stainless Steel materials in a magnetic drive design that provides leakfree operation. With flows to 340 GPM, Iwaki Sanwa has the right pump for every application.

# MMP Series

The MMP/MML/MMH Series is ideal for low flow applications where the pump size is a concern. The MMP/MML/MMH features high strength magnets, SIC-D bearings, machined rear casing and a single gasket seal.

## TEMPERATURE RANGE

-22°F – + 302°F (-30°C – + 150°C)



# MP Series

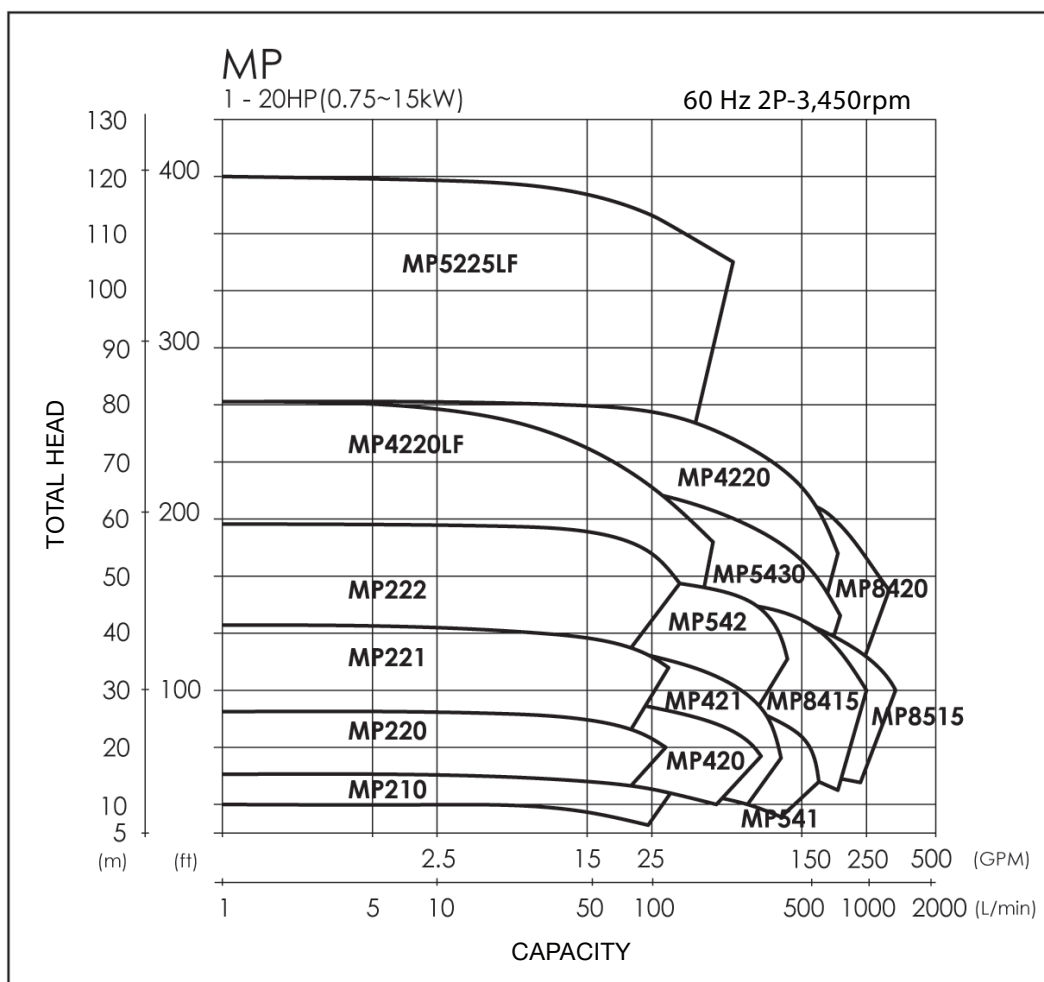
## The MP/MH/ML Series

is the perfect combination of dependability and affordability. With flow rates to 340 GPM and rugged 316 stainless steel construction, the MP/MH/ML Series meets most sub-ANSI applications at a very affordable price.

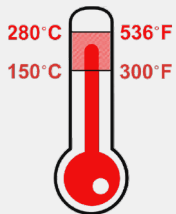


## TEMPERATURE RANGE

-22°F – + 302°F (-30°C – + 150°C)







## High Temperature

### TEMPERATURE RANGE

+25°F – +536°F (-4°C – +280°C)

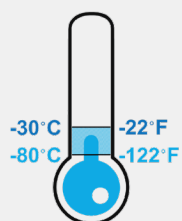


**MH Series**

- Fin type frame adapter dissipates heat away from pump
- Rare earth Samarium Cobalt magnets
- High temperature gasket material



**MMH Series**



## Low Temperature

### TEMPERATURE RANGE

-112°F – +302°F (-80°C – +150°C)



**ML Series**

- Nitrogen purge port is provided to prevent moisture from freezing in the frame adapter
- Rare earth Neodymium magnets are used
- Low temperature gasket material



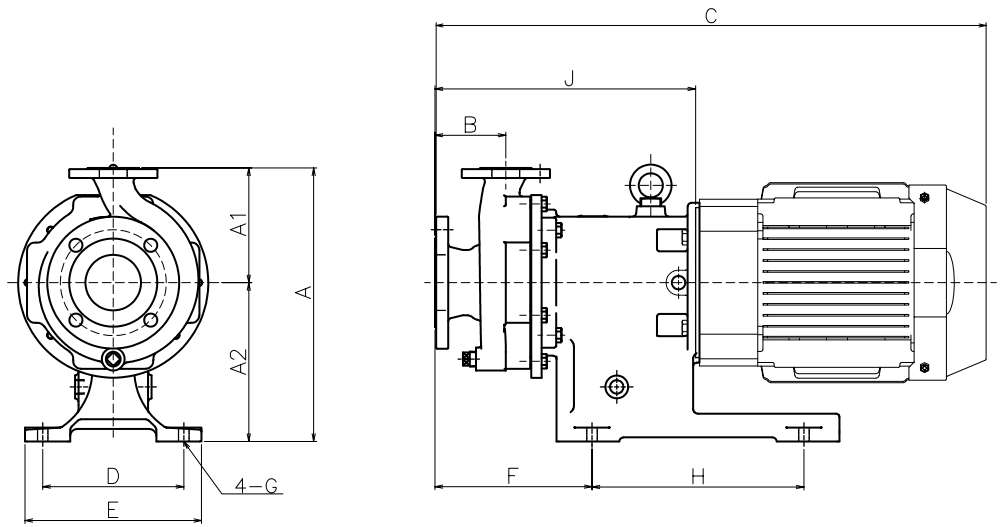
**MML Series**

# Pump Specifications

| MODEL    | CONNECTIONS<br>SUCTION x DISCHARGE          | NOMINAL IMPELLER<br>DIAMETER<br>IN (MM) | BEP CAPACITY<br>@ 60Hz GPM (LPM) | BEP HEAD<br>FT (m) | MIN FLOW RATE<br>GPM (LPM) | NOMINAL<br>MOTOR (RPM) |
|----------|---------------------------------------------|-----------------------------------------|----------------------------------|--------------------|----------------------------|------------------------|
| MMP11    | 1/2" x 1/2"<br>(12.7 x 12.7) NPT            | 3.66 (93)                               | 7.7 (30)                         | 42 (12.8)          | 0.8 (3)                    | 3600                   |
| MMP21    | 3/4 x 3/4"<br>(19 x 19 ) NPT                | 4.80 (122)                              | 13 (50)                          | 72 (21.9)          | 1.1 (4)                    | 3600                   |
| MMP22    | 1 x 3/4"<br>(25.4 x 19) NPT                 | 3.31 (84)                               | 20 (75)                          | 33 (10)            | 1.3 (5)                    | 3600                   |
| MMP210   | 1 x 3/4"<br>(25.4 x 19)<br>150# RF FLANGES  | 3.54 (90)                               | 35.7 (135)                       | 35 (10.6)          | 2.6 (9.8)                  | 3600                   |
| MP220    | 1 x 3/4"<br>(25.4 x 19)<br>150# RF FLANGES  | 4.53 (115)                              | 27.7 (105)                       | 60 (18.2)          | 2.6 (9.8)                  | 3600                   |
| MP221    | 1 x 3/4"<br>(25.4 x 19)<br>150# RF FLANGES  | 5.63 (143)                              | 38.3 (145)                       | 102 (31.0)         | 2.6 (9.8)                  | 3600                   |
| MP222    | 1 x 3/4"<br>(25.4 x 19)<br>150# RF FLANGES  | 6.61 (168)                              | 43.6 (165)                       | 141 (43)           | 2.6 (9.8)                  | 3600                   |
| MP420    | 1½ x 1"<br>(38.1 x 25.4)<br>150# RF FLANGES | 4.49 (114)                              | 64.5 (245)                       | 69 (21)            | 4.8 (18.1)                 | 3600                   |
| MP421    | 1½ x 1"<br>(38.1 x 25.4)<br>150# RF FLANGES | 5.31 (135)                              | 75.5 (286)                       | 92 (28)            | 6.6 (25)                   | 3600                   |
| MP541    | 2 x 1½"<br>(50.4 x 38.1)<br>150# RF FLANGES | 5.12 (130)                              | 104.5 (395)                      | 79 (24)            | 9.2 (34.8)                 | 3600                   |
| MP542    | 2 x 1½"<br>(50.4 x 38.1)<br>150# RF FLANGES | 6.46 (164)                              | 94 (355)                         | 125 (38.1)         | 9.2 (34.8)                 | 3600                   |
| MP4220   | 1½ x 1"<br>(38.1 x 25.4)<br>150# RF FLANGES | 8.03 (204)                              | 148 ( 560)                       | 197 (60)           | 10.6 (40)                  | 3600                   |
| MP4220LF | 1½ x 1"<br>(38.1 x 25.4)<br>150# RF FLANGES | 8.03 (204)                              | 50 (190)                         | 184 (56)           | 5.3 (20)                   | 3600                   |
| MP5225LF | 2 x 1" (50.4 x 25.4)<br>150# RF FLANGES     | 10.04 (255)                             | 73 (275)                         | 298 (90.8)         | 10.6 (40)                  | 3600                   |
| MP5430   | 2 x 1½" (50.4 x 38.1)<br>150# RF FLANGES    | 7.54 (192)                              | 159 (600)                        | 157 (47.8)         | 13.2 (50)                  | 3600                   |
| MP8415   | 3 x 1½" (76.2 x 38.1)<br>150# RF FLANGES    | 6.30 (160)                              | 211 (800)                        | 115 (35)           | 15.9 (60.1)                | 3600                   |
| MP8420   | 3 x 1½"<br>(76.2 x 38.1)<br>150# RF FLANGES | 7.91 (201)                              | 254 (960)                        | 195 (59.4)         | 18.5 (70)                  | 3600                   |
| MP8515   | 3 x 2"<br>(76.2 x 50.8)<br>150# RF FLANGES  | 6.30 (160)                              | 269 (1020)                       | 105 (32)           | 26.4 (100)                 | 3600                   |

# Dimensions

## 1-5 HP



| Model | SUC/DIS   | Size      | A           | A1         | A2         | B         | C             | D          | E          | F          | G         | H          | J             |
|-------|-----------|-----------|-------------|------------|------------|-----------|---------------|------------|------------|------------|-----------|------------|---------------|
| MP210 | Suction   | 1.0 (25)  | 8.46 (215)  | 4.13 (105) | 4.33 (110) | 2.95 (75) | 20.59 (523)   | 5.12 (130) | 6.30 (160) | 6.10 (155) | 0.47 (12) | 4.72 (120) | 9.80 (249)    |
|       | Discharge | 0.75 (20) |             |            |            |           |               |            |            |            |           |            |               |
| MP220 | Suction   | 1.0 (25)  | 9.06 (230)  | 4.72 (120) | 4.33 (110) | 2.36 (60) | 19.96 (507)   | 5.12 (130) | 6.30 (160) | 5.51 (140) | 0.47 (12) | 4.72 (120) | 9.21 (234)    |
|       | Discharge | 0.75 (20) |             |            |            |           |               |            |            |            |           |            |               |
| MP221 | Suction   | 1.0 (25)  | 11.81 (300) | 5.12 (130) | 6.69 (170) | 2.56 (65) | 20.71 (526)   | 6.30 (160) | 7.87 (200) | 5.51 (140) | 0.47 (12) | 7.48 (190) | 9.71 (246.5)  |
|       | Discharge | 0.75 (20) |             |            |            |           |               |            |            |            |           |            |               |
| MP222 | Suction   | 1.0 (25)  | 12.20 (310) | 5.51 (140) | 6.69 (170) | 2.56 (65) | 20.71 (526)   | 6.30 (160) | 7.87 (200) | 5.51 (140) | 0.47 (12) | 7.48 (190) | 9.71 (246.5)  |
|       | Discharge | 0.75 (20) |             |            |            |           |               |            |            |            |           |            |               |
| MP420 | Suction   | 1.5 (40)  | 12.01 (305) | 5.31 (135) | 6.69 (170) | 2.95 (75) | 21.34 (542)   | 6.30 (160) | 7.87 (200) | 6.10 (155) | 0.47 (12) | 7.48 (190) | 10.29 (261.5) |
|       | Discharge | 1.0 (25)  |             |            |            |           |               |            |            |            |           |            |               |
| MP421 | Suction   | 1.5 (40)  | 12.01 (305) | 5.31 (135) | 6.69 (170) | 2.95 (75) | 21.34 (542)   | 6.30 (160) | 7.87 (200) | 6.10 (155) | 0.47 (12) | 7.48 (190) | 10.29 (261.5) |
|       | Discharge | 1.0 (25)  |             |            |            |           |               |            |            |            |           |            |               |
| MP541 | Suction   | 2.0 (50)  | 12.20 (310) | 5.51 (140) | 6.69 (170) | 3.15 (80) | 21.47 (545.4) | 6.30 (160) | 7.87 (200) | 6.30 (160) | 0.47 (12) | 7.48 (190) | 10.49 (266.5) |
|       | Discharge | 1.5 (40)  |             |            |            |           |               |            |            |            |           |            |               |
| MP542 | Suction   | 2.0 (50)  | 12.60 (320) | 5.91 (150) | 6.69 (170) | 2.56 (65) | 20.75 (527)   | 6.30 (160) | 7.87 (200) | 5.51 (140) | 0.47 (12) | 7.48 (190) | 9.71 (246.5)  |
|       | Discharge | 1.5 (40)  |             |            |            |           |               |            |            |            |           |            |               |

in (mm)

## 5-20 HP

| Model    | SUC/DIS   | Size     | A           | A1         | A2         | B          | C           | D          | E           | F          | G         | H           | J           |
|----------|-----------|----------|-------------|------------|------------|------------|-------------|------------|-------------|------------|-----------|-------------|-------------|
| MP4220   | Suction   | 1.5 (40) | 15.51 (394) | 6.50 (165) | 9.02 (229) | 4.02 (102) | 31.22 (793) | 7.99 (203) | 10.00 (254) | 8.90 (226) | 0.59 (15) | 12.01 (305) | 14.77 (375) |
|          | Discharge | 1.0 (25) |             |            |            |            |             |            |             |            |           |             |             |
| MP4220LF | Suction   | 1.5 (40) | 15.51 (394) | 6.50 (165) | 9.02 (229) | 4.02 (102) | 31.22 (793) | 7.99 (203) | 10.00 (254) | 8.90 (226) | 0.59 (15) | 12.01 (305) | 14.77 (375) |
|          | Discharge | 1.0 (25) |             |            |            |            |             |            |             |            |           |             |             |
| MP5225LF | Suction   | 2.0 (50) | 17.48 (444) | 8.46 (215) | 9.02 (229) | 4.02 (102) | 31.42 (798) | 7.99 (203) | 10.00 (254) | 9.09 (231) | 0.59 (15) | 12.01 (305) | 14.96 (380) |
|          | Discharge | 1.0 (25) |             |            |            |            |             |            |             |            |           |             |             |
| MP5430   | Suction   | 2.0 (50) | 15.51 (394) | 6.50 (165) | 9.02 (229) | 4.02 (102) | 31.22 (793) | 7.99 (203) | 10.00 (254) | 8.90 (226) | 0.59 (15) | 12.01 (305) | 14.77 (375) |
|          | Discharge | 1.5 (40) |             |            |            |            |             |            |             |            |           |             |             |
| MP8415   | Suction   | 3.0 (80) | 15.52 (394) | 6.50 (165) | 9.02 (229) | 4.02 (102) | 31.13 (793) | 7.99 (203) | 10.00 (254) | 8.90 (226) | 0.59 (15) | 12.01 (305) | 14.77 (375) |
|          | Discharge | 1.5 (40) |             |            |            |            |             |            |             |            |           |             |             |
| MP8420   | Suction   | 3.0 (80) | 17.48 (444) | 8.46 (215) | 9.02 (229) | 4.02 (102) | 31.42 (380) | 7.99 (203) | 10.00 (254) | 9.09 (231) | 0.59 (15) | 12.01 (305) | 14.96 (380) |
|          | Discharge | 1.5 (40) |             |            |            |            |             |            |             |            |           |             |             |
| MP8515   | Suction   | 3.0 (80) | 17.28 (439) | 8.27 (210) | 9.02 (229) | 4.02 (102) | 31.42 (798) | 7.99 (203) | 10.00 (254) | 9.09 (231) | 0.59 (15) | 12.01 (305) | 14.96 (380) |
|          | Discharge | 2.0 (50) |             |            |            |            |             |            |             |            |           |             |             |

in (mm)

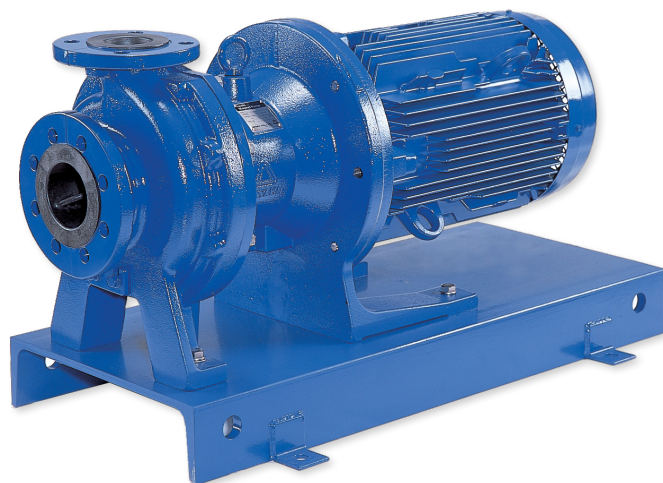
## Non-Metallic Pumps

Corrosion resistant EFTE Teflon® Internals or virgin PFA suitable for temperatures to 302° F (150° C) in a magnetic drive sealless package.

### MXM Series



### MDM Series



## Accessories



### Power Monitor

Capable of detecting both over-load and under-load conditions, the monitor offers protection from off-design conditions such as dry running, dead head, end of curve, cavitation and excessive bearing wear.



### Non-Metallic Baseplates

Corrosion-resistant Basetek polymer concrete non-metallic bases. Bases use stainless steel inserts as a standard and are available with optional grout holes, and drip pan.

