



## Petroleum Pumps:

Bio-diesel

Fuel Oil

Kerosene

Aviation Gasoline

Diesel

Jet A / JP-8

Gasoline

Ethanol

E 85

MEMBER  
**PEI**  
PETROLEUM EQUIPMENT INSTITUTE



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



## MP Pumps PG, PO & PE Series Self Priming Pumps And SG, SO & SE End Suction Centrifugal Pumps Are Specifically Designed For The Transfer Of Petroleum Based Fluids.

MP Pump's Petroleum pumps capitalize on the need for pumps to handle all those fossil and bio-fuels that keep the economies of the world growing. MP Pump's Petroleum Series is targeted at the bulk transfer market and designed for use in agricultural, fuel transport, aviation and many other fuel transfer applications.

Other pump manufacturers design their pumps to be capable of handling all petroleum base fluids. This "one-pump-fits-all" approach creates unnecessary costs for most customers. MP Pumps grouped various petroleum fluids according to their characteristics and designed three distinct pump series to address those characteristics.

PO and SO Series pumps are made to handle diesel fuel, biodiesel, and fuel oil. PG and SG Series pumps are intended for use with kerosene, jet fuel A/B, and gasoline. PE and SE Series pumps match with ethanol and E85. In each case the volutes or housings, flanges, impellers, adapters, and seals are engineered for safety, performance, and durability. Pumps can also be customized to meet a customer's unique requirements. "P" pumps employ the self-priming features of MP Pumps' innovative FLOMAX® line. "S" pumps offer end-suction design.

## PETROLMAXX

### PO Series / SO Series

Cast Iron is the standard material for the volutes or housings, flanges, adapter and impeller. The self primer (PO) series is equipped with a steel wear plate. The straight centrifugal series is offered with flanged porting. As an optional material for the volute, ductile iron can be considered. The standard self-lubricated type 21 mechanical seal is equipped with a carbon rotating face, viton elastomer and stainless steel spring. The stationary face is Ni-Resist. Electric motors are available in C Face, TEFC.

COMPATIBLE FOR DIESEL,  
BIO-DIESEL & FUEL  
OIL WITH TEFC MOTOR

### PG Series / SG Series

Ductile Iron is the standard material for the volutes or housings, flanges, and adapter. The self primer (PG) series is equipped with an aluminum wear plate. The straight centrifugal series is offered with flanged porting. The standard open impeller material for the self-priming series (PG) is cast iron with aluminum as an option. The standard enclosed impeller material for the straight centrifugal series is aluminum. The standard self-lubricated type 2 mechanical seal is equipped with a carbon rotating face, viton elastomer and stainless steel spring. The stationary face is silicon carbide. Electric motors are available in C Face, explosion proof Class 1 group D.

COMPATIBLE FOR KEROSENE,  
JET A/B & GASOLINE  
WITH EXPLOSION PROOF  
MOTOR CLASS 1 GROUP D

### PE Series / SE Series

Ductile Iron is the standard material for the volutes or housings, flanges, and adapter with a steel wear plate for the self primer series (PE). The standard impeller material is cast iron with 316 stainless steel as an option for the PE series. The straight centrifugal series is offered with flanged porting. The standard self lubricated type 2 mechanical seal is equipped with a carbon rotating face, viton elastomer and stainless steel spring. The stationary face is silicon carbide. Electric motors are available in C Face, explosion proof Class 1 Group D.

COMPATIBLE FOR ETHANOL,  
& E85 WITH EXPLOSION  
PROOF MOTOR CLASS 1  
GROUP D

# MP Pumps Self-Priming Petroleum Pumps

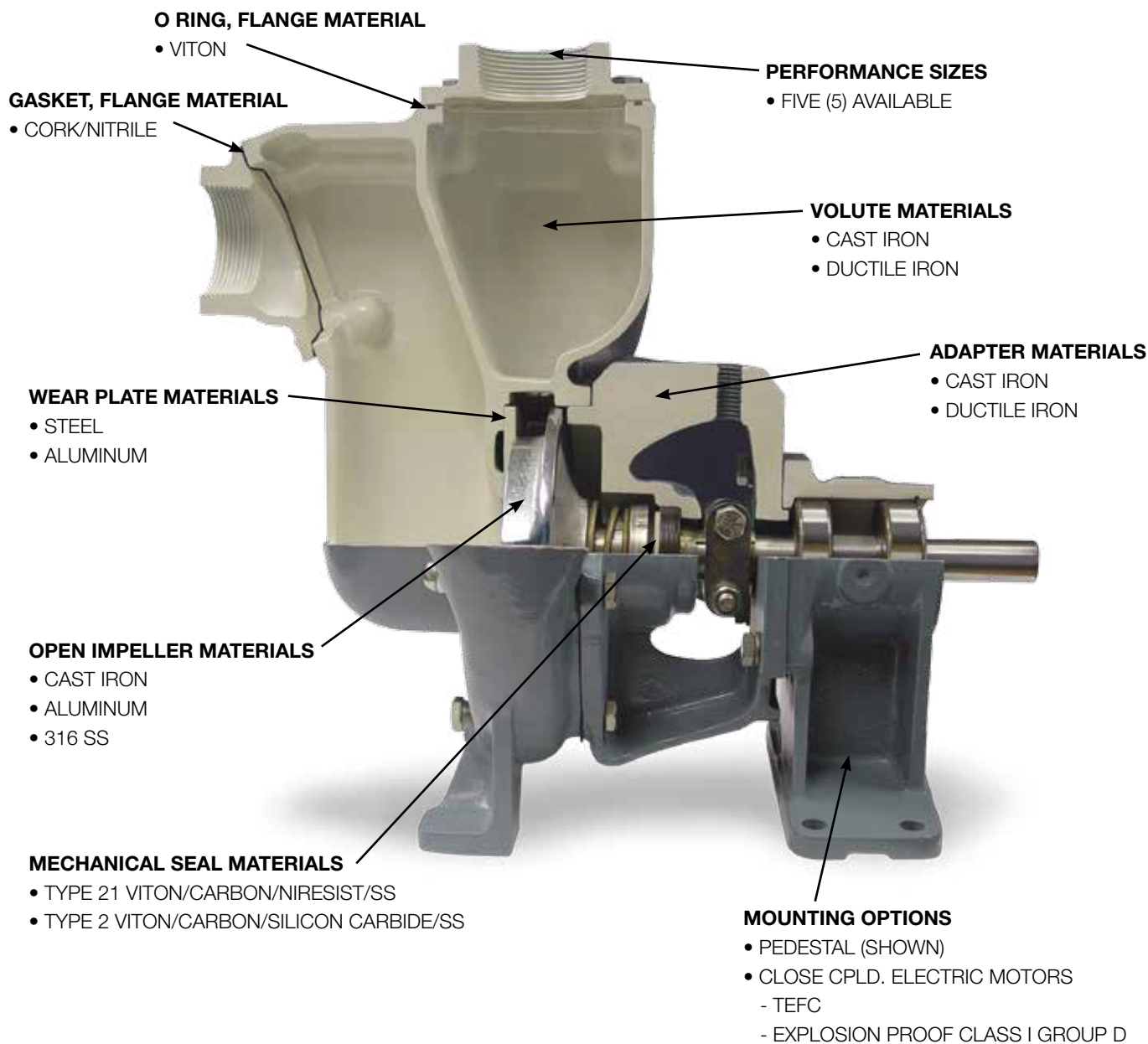
MP Pumps has specifically reengineered its popular Flomax® Self-Priming Series for compatibility with clean, non-abrasive petroleum products.

Transfer and delivery of various fuels such as gasoline, ethanol, biodiesel, and fuel oils are just a few of the petroleum based products the Flomax® Series is suitable for handling.

Long recognized as the leader in self-priming applications, the Flomax® Series addresses today's fuel market by offering:

- **Five (5) performance models.**
- **Various drive options.**
- **Specific mechanical seal offerings.**
- **Materials of construction compatible for three (3) distinct fuel classifications.**

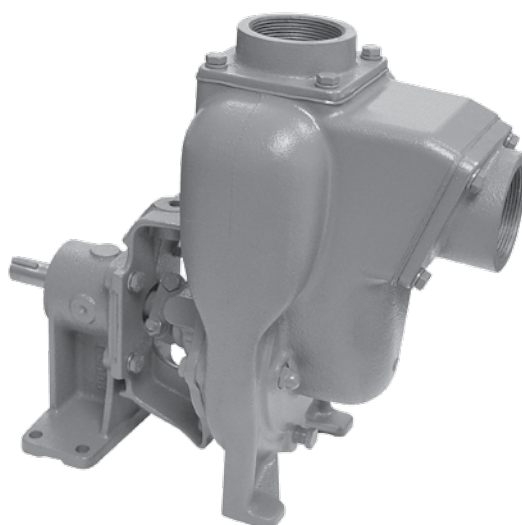
By classifying various fuels into three (3) distinct segments, MP Pumps can recommend that its design is capable of handling the specific fuel groups without incurring the additional cost associated with "one pump for all fuels".



## Model PG Pumps Compatible For Gasoline, Kerosene, Avgas & Jet Fuel



The “PG” model is available in Pedestal mount for flexible coupling or Close Coupled mount to C Face Class I Group D Explosion Proof electric motors. Ductile Iron is the standard construction for the volute and adapter. The open impeller is standard in cast iron construction with aluminum as an optional material. Standard material for the wear plate is aluminum. The standard self-lubricated Type 2 mechanical seal is equipped with a carbon rotating face, viton elastomer and stainless steel spring. The stationary face is silicon carbide.

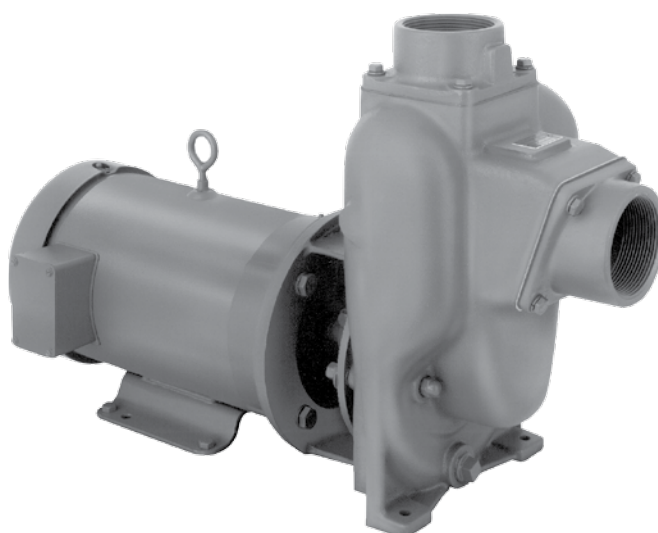


| MODEL | SIZE    | MOUNTING        | STANDARD MATERIALS OF CONSTRUCTION |           |            |                    |                                        | OPTIONAL MATERIALS                                                                          |          |                                                                                             |
|-------|---------|-----------------|------------------------------------|-----------|------------|--------------------|----------------------------------------|---------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------|
|       |         |                 | VOLUTE                             | IMPELLER  | WEAR PLATE | O RING/<br>GASKET  | SEAL                                   | VOLUTE                                                                                      | IMPELLER | WEAR PLATE                                                                                  |
| PG 8  | 2" X 2" | Explosion Proof | Ductile Iron                       | Cast Iron | Aluminum   | Viton Cork/Nitrile | Type 2<br>Viton/Carbon/<br>Sil.Car./SS | <b>C<br/>O<br/>N<br/>S<br/>U<br/>L<br/>T<br/><br/>F<br/>A<br/>C<br/>T<br/>O<br/>R<br/>Y</b> | Aluminum | <b>C<br/>O<br/>N<br/>S<br/>U<br/>L<br/>T<br/><br/>F<br/>A<br/>C<br/>T<br/>O<br/>R<br/>Y</b> |
| PG 8  | 2" X 2" | Pedestal        | Ductile Iron                       | Cast Iron | Aluminum   | Viton Cork/Nitrile | Type 2<br>Viton/Carbon/<br>Sil.Car./SS |                                                                                             | Aluminum |                                                                                             |
| PG 10 | 2" X 2" | Explosion Proof | Ductile Iron                       | Cast Iron | Aluminum   | Viton Cork/Nitrile | Type 2<br>Viton/Carbon/<br>Sil.Car./SS |                                                                                             | Aluminum |                                                                                             |
| PG 15 | 3" X 3" | Explosion Proof | Ductile Iron                       | Cast Iron | Aluminum   | Viton Cork/Nitrile | Type 2<br>Viton/Carbon/<br>Sil.Car./SS |                                                                                             | Aluminum |                                                                                             |
| PG 15 | 3" X 3" | Pedestal        | Ductile Iron                       | Cast Iron | Aluminum   | Viton Cork/Nitrile | Type 2<br>Viton/Carbon/<br>Sil.Car./SS |                                                                                             | Aluminum |                                                                                             |
| PG 30 | 3" X 3" | Pedestal        | Ductile Iron                       | Cast Iron | Aluminum   | Viton Cork/Nitrile | Type 2<br>Viton/Carbon/<br>Sil.Car./SS |                                                                                             | Aluminum |                                                                                             |
| PG 40 | 4" X 4" | Pedestal        | Ductile Iron                       | Cast Iron | Aluminum   | Viton Cork/Nitrile | Type 2<br>Viton/Carbon/<br>Sil.Car./SS |                                                                                             | Aluminum |                                                                                             |

## Model PO Pumps Compatible For BioDiesel, Fuel Oil & Diesel



The “PO” model mounting offerings for fuel oil and diesel fuel applications include both Pedestal mount for flexible coupling and Close Coupled mount to C Face, TEFC electric motors. Cast Iron is the standard construction for the volute, adapter and open impeller. Standard material for the wear plate is steel. The volute is also available in ductile iron. The standard self-lubricated Type 21 mechanical seal is equipped with a carbon rotating face, viton elastomer and stainless steel spring. The stationary face is Ni-Resist.

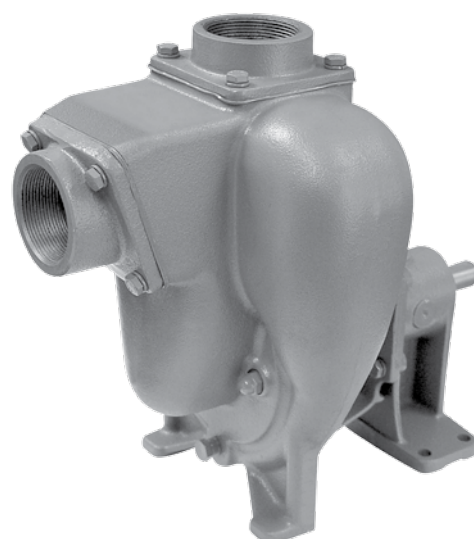


| MODEL | SIZE    | MOUNTING | STANDARD MATERIALS OF CONSTRUCTION |           |            |                       |                                         | OPTIONAL MATERIALS |                                                                                             |                                                                                             |
|-------|---------|----------|------------------------------------|-----------|------------|-----------------------|-----------------------------------------|--------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|       |         |          | VOLUTE                             | IMPELLER  | WEAR PLATE | O RING/<br>GASKET     | SEAL                                    | VOLUTE             | IMPELLER                                                                                    | WEAR PLATE                                                                                  |
| PO 8  | 2" X 2" | TEFC     | Cast Iron                          | Cast Iron | Steel      | Viton<br>Cork/Nitrile | Type 21<br>Viton/Carbon/<br>NiResist/SS | Ductile Iron       | <b>C<br/>O<br/>N<br/>S<br/>U<br/>L<br/>T<br/><br/>F<br/>A<br/>C<br/>T<br/>O<br/>R<br/>Y</b> | <b>C<br/>O<br/>N<br/>S<br/>U<br/>L<br/>T<br/><br/>F<br/>A<br/>C<br/>T<br/>O<br/>R<br/>Y</b> |
| PO 8  | 2" X 2" | Pedestal | Cast Iron                          | Cast Iron | Steel      | Viton<br>Cork/Nitrile | Type 21<br>Viton/Carbon/<br>NiResist/SS | Ductile Iron       |                                                                                             |                                                                                             |
| PO 10 | 2" X 2" | TEFC     | Cast Iron                          | Cast Iron | Steel      | Viton<br>Cork/Nitrile | Type 21<br>Viton/Carbon/<br>NiResist/SS | Ductile Iron       |                                                                                             |                                                                                             |
| PO 15 | 3" X 3" | TEFC     | Cast Iron                          | Cast Iron | Steel      | Viton<br>Cork/Nitrile | Type 21<br>Viton/Carbon/<br>NiResist/SS | Ductile Iron       |                                                                                             |                                                                                             |
| PO 15 | 3" X 3" | Pedestal | Cast Iron                          | Cast Iron | Steel      | Viton<br>Cork/Nitrile | Type 21<br>Viton/Carbon/<br>NiResist/SS | Ductile Iron       |                                                                                             |                                                                                             |
| PO 30 | 3" X 3" | Pedestal | Cast Iron                          | Cast Iron | Steel      | Viton<br>Cork/Nitrile | Type 21<br>Viton/Carbon/<br>NiResist/SS | Ductile Iron       |                                                                                             |                                                                                             |
| PO 40 | 4" X 4" | Pedestal | Cast Iron                          | Cast Iron | Steel      | Viton<br>Cork/Nitrile | Type 21<br>Viton/Carbon/<br>NiResist/SS | Ductile Iron       |                                                                                             |                                                                                             |

## Model PE Pumps Compatible For Ethanol & E 85



The "PE" model is available in Pedestal mount for flexible coupling or Close Coupled mount to C Face Class I Group D Explosion Proof electric motors. Ductile Iron is the standard construction for the volute and adapter. The open impeller is standard in cast iron construction with 316 SS as an optional material. Standard material for the wear plate is steel. The standard self-lubricated Type 2 mechanical seal is equipped with a carbon rotating face, viton elastomer and stainless steel spring. The stationary face is silicon carbide.



| MODEL | SIZE    | MOUNTING        | STANDARD MATERIALS OF CONSTRUCTION |           |            |                    |                                 | OPTIONAL MATERIALS                                                                          |          |                                                                                             |
|-------|---------|-----------------|------------------------------------|-----------|------------|--------------------|---------------------------------|---------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------|
|       |         |                 | VOLUTE                             | IMPELLER  | WEAR PLATE | O RING/ GASKET     | SEAL                            | VOLUTE                                                                                      | IMPELLER | WEAR PLATE                                                                                  |
| PE 8  | 2" X 2" | Explosion Proof | Ductile Iron                       | Cast Iron | Steel      | Viton Cork/Nitrile | Type 2 Viton/Carbon/Sil.Car./SS | <b>C<br/>O<br/>N<br/>S<br/>U<br/>L<br/>T<br/><br/>F<br/>A<br/>C<br/>T<br/>O<br/>R<br/>Y</b> | 316 SS   | <b>C<br/>O<br/>N<br/>S<br/>U<br/>L<br/>T<br/><br/>F<br/>A<br/>C<br/>T<br/>O<br/>R<br/>Y</b> |
| PE 8  | 2" X 2" | Pedestal        | Ductile Iron                       | Cast Iron | Steel      | Viton Cork/Nitrile | Type 2 Viton/Carbon/Sil.Car./SS |                                                                                             | 316 SS   |                                                                                             |
| PE 10 | 2" X 2" | Explosion Proof | Ductile Iron                       | Cast Iron | Steel      | Viton Cork/Nitrile | Type 2 Viton/Carbon/Sil.Car./SS |                                                                                             | 316 SS   |                                                                                             |
| PE 15 | 3" X 3" | Explosion Proof | Ductile Iron                       | Cast Iron | Steel      | Viton Cork/Nitrile | Type 2 Viton/Carbon/Sil.Car./SS |                                                                                             | 316 SS   |                                                                                             |
| PE 15 | 3" X 3" | Pedestal        | Ductile Iron                       | Cast Iron | Steel      | Viton Cork/Nitrile | Type 2 Viton/Carbon/Sil.Car./SS |                                                                                             | 316 SS   |                                                                                             |
| PE 30 | 3" X 3" | Pedestal        | Ductile Iron                       | Cast Iron | Steel      | Viton Cork/Nitrile | Type 2 Viton/Carbon/Sil.Car./SS |                                                                                             | 316 SS   |                                                                                             |
| PE 40 | 4" X 4" | Pedesta         | Ductile Iron                       | Cast Iron | Steel      | Viton Cork/Nitrile | Type 2 Viton/Carbon/Sil.Car./SS |                                                                                             | 316 SS   |                                                                                             |

# Performance Curves

