MP PUMPS

An Ingersoll Rand Business

PO/SO SERIES | PG/SG SERIES | PE/SE SERIES
INDUSTRIAL PUMPS FOR FUEL TRANSFER APPLICATIONS

Petrolmaxx

Petroleum Pumps

Bio-diesel

Fuel Oil

Kerosene

Aviation Gasoline

Diesel

Jet A / JP-8

Gasoline

Ethanol

E 85

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

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

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

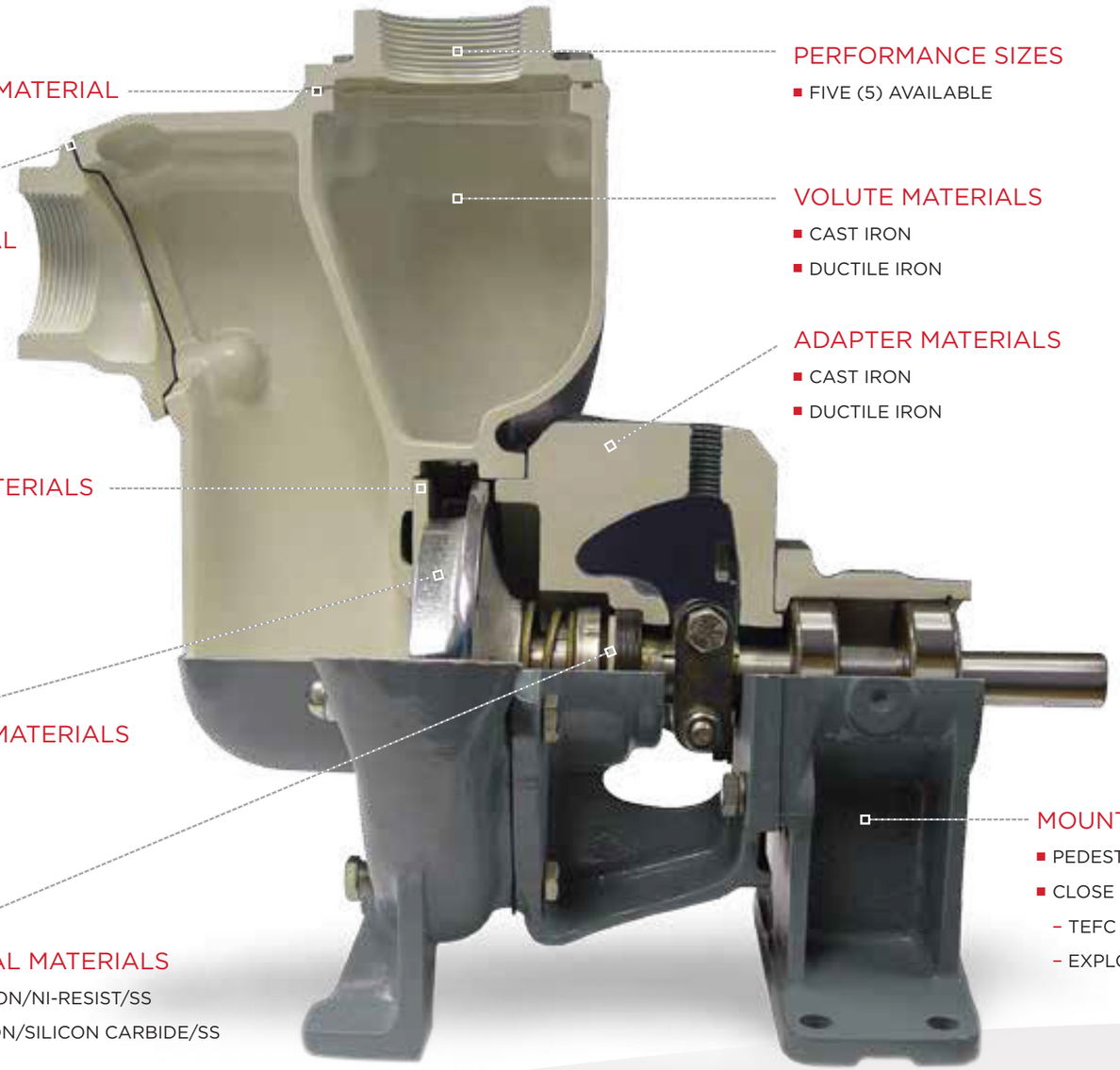
MP Pumps has specifically re-engineered its popular Flomax® Self-Priming Series for compatibility with clean, non-abrasive petroleum products.

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".



O RING, FLANGE MATERIAL
- VITON

GASKET, FLANGE MATERIAL
- CORK/NITRILE

WEAR PLATE MATERIALS
- STEEL
- ALUMINUM

OPEN IMPELLER MATERIALS
- CAST IRON
- ALUMINUM
- 316 SS

MECHANICAL SEAL MATERIALS
- TYPE 21 VITON/CARBON/NI-RESIST/SS
- TYPE 2 VITON/CARBON/SILICON CARBIDE/SS

PERFORMANCE SIZES
- FIVE (5) AVAILABLE

VOLUTE MATERIALS
- CAST IRON
- DUCTILE IRON

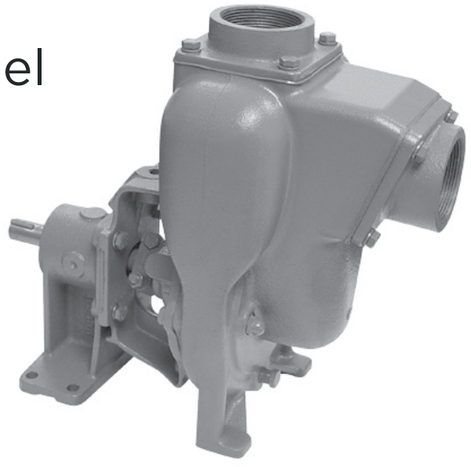
ADAPTER MATERIALS
- CAST IRON
- DUCTILE IRON

MOUNTING OPTIONS
- PEDESTAL (SHOWN)
- CLOSE CPLD. ELECTRIC MOTORS
  - TEFC
  - EXPLOSION-PROOF CLASS I GROUP D

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.

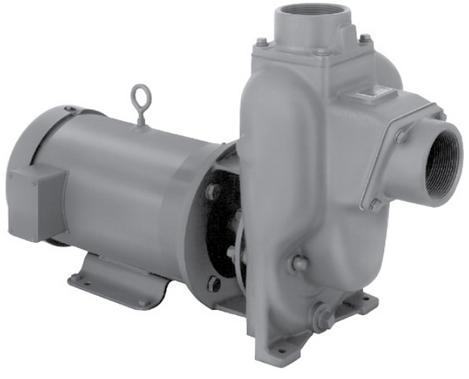


MODEL	SIZE INCHES	MOUNTING	STANDARD MATERIALS OF CONSTRUCTION					OPTIONAL MATERIALS		
			VOLUTE	IMPELLER	WEAR PLATE	O RING/ GASKET	SEAL	VOLUTE	IMPELLER	WEAR PLATE
PG 8	2 × 2	Explosion-Proof	Ductile Iron	Cast Iron	Aluminum	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS	CONSULT FACTORY	Aluminum	CONSULT FACTORY
PG 8	2 × 2	Pedestal	Ductile Iron	Cast Iron	Aluminum	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS		Aluminum	
PG 10	2 × 2	Explosion-Proof	Ductile Iron	Cast Iron	Aluminum	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS		Aluminum	
PG 15	3 × 3	Explosion-Proof	Ductile Iron	Cast Iron	Aluminum	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS		Aluminum	
PG 15	3 × 3	Pedestal	Ductile Iron	Cast Iron	Aluminum	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS		Aluminum	
PG 30	3 × 3	Pedestal	Ductile Iron	Cast Iron	Aluminum	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS		Aluminum	
PG 40	4 × 4	Pedestal	Ductile Iron	Cast Iron	Aluminum	Viton Cork/Nitrile	Type 2 Viton/Carbon/ 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.

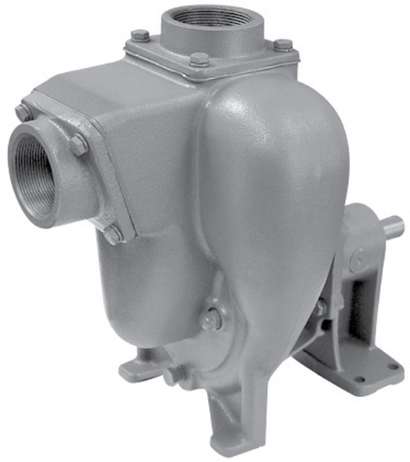


MODEL	SIZE INCHES	MOUNTING	STANDARD MATERIALS OF CONSTRUCTION					OPTIONAL MATERIALS		
			VOLUTE	IMPELLER	WEAR PLATE	O RING/ GASKET	SEAL	VOLUTE	IMPELLER	WEAR PLATE
PO 8	2 × 2	TEFC	Cast Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 21 Viton/Carbon/ Ni-Resist/SS	Ductile Iron	CONSULT FACTORY	CONSULT FACTORY
PO 8	2 × 2	Pedestal	Cast Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 21 Viton/Carbon/ Ni-Resist/SS	Ductile Iron		
PO 10	2 × 2	TEFC	Cast Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 21 Viton/Carbon/ Ni-Resist/SS	Ductile Iron		
PO 15	3 × 3	TEFC	Cast Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 21 Viton/Carbon/ Ni-Resist/SS	Ductile Iron		
PO 15	3 × 3	Pedestal	Cast Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 21 Viton/Carbon/ Ni-Resist/SS	Ductile Iron		
PO 30	3 × 3	Pedestal	Cast Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 21 Viton/Carbon/ Ni-Resist/SS	Ductile Iron		
PO 40	4 × 4	Pedestal	Cast Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 21 Viton/Carbon/ Ni-Resist/SS	Ductile Iron		

Model PG Pumps

Compatible for Gasoline, Kerosene, Avgas & Jet Fuel

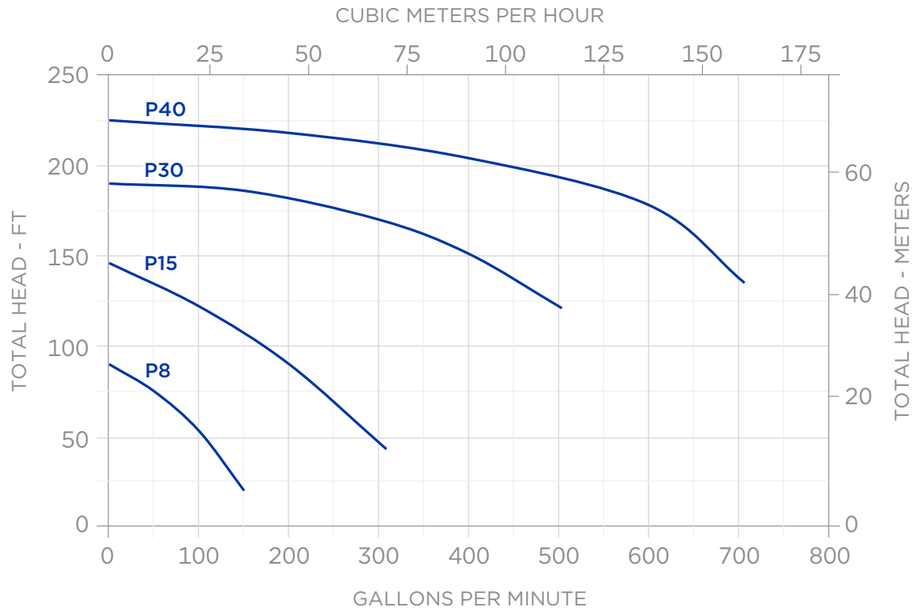
The “PG” model is available in Pedestal mount for flexible coupling or Close Coupled mount to C-Face Class I Group D Explosion-Proof electric motors. Ductile Iron is the standard construction for the volute and adapter. The open impeller is standard in cast iron construction with aluminum as an optional 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.



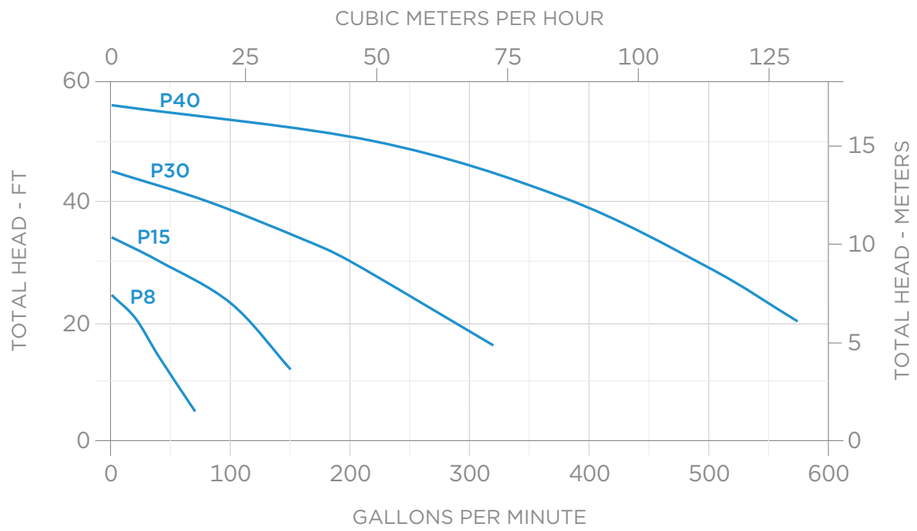
MODEL	SIZE	MOUNTING	STANDARD MATERIALS OF CONSTRUCTION					OPTIONAL MATERIALS		
			VOLUTE	IMPELLER	WEAR PLATE	O RING/ GASKET	SEAL	VOLUTE	IMPELLER	WEAR PLATE
PE 8	2″ × 2″	Explosion-Proof	Ductile Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS	CONSULT FACTORY	316 SS	CONSULT FACTORY
PE 8	2″ × 2″	Pedestal	Ductile Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS		316 SS	
PE 10	2″ × 2″	Explosion-Proof	Ductile Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS		316 SS	
PE 15	3″ × 3″	Explosion-Proof	Ductile Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS		316 SS	
PE 15	3″ × 3″	Pedestal	Ductile Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS		316 SS	
PE 30	3″ × 3″	Pedestal	Ductile Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS		316 SS	
PE 40	4″ × 4″	Pedestal	Ductile Iron	Cast Iron	Steel	Viton Cork/Nitrile	Type 2 Viton/Carbon/ Sil.Car./SS		316 SS	

Performance Curves

Petroleum Self Priming 3500 RPM



Petroleum Self Priming 1750 RPM



MP Pumps End-Suction Petroleum Pumps

MP Pumps has adapted its Petroleum End Suction series pumps specifically for use 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 end suction series is capable of handling. The Petroleum End Suction Series offers:

- Six (6) performance models
- Enclosed impellers
- Specific mechanical seal offerings
- Flat flange ports
- Materials of construction compatible for three (3) distinct fuel classifications

GASKET, FLANGE MATERIAL

- CORK/NITRILE

ADAPTER MATERIALS

- CAST IRON
- DUCTILE IRON

ENCLOSED IMPELLER MATERIALS

- CAST IRON
- ALUMINUM
- BRONZE

MECHANICAL SEAL MATERIALS

- TYPE 21 VITON/CARBON/NI-RESIST/SS
- TYPE 2 VITON/CARBON/SILICON CARBIDE/SS

PERFORMANCE SIZES

- SIX (6) AVAILABLE

FLAT FLANGE PORTS

- (EXCEPT 1¼" × 1" NPT)

HOUSING MATERIALS

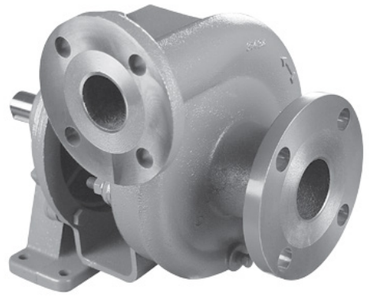
- CAST IRON
- DUCTILE IRON

MOUNTING OPTIONS

- PEDESTAL
- CLOSE CPLD, AND PUMPAK (SHOWN)
  - TEFC
  - EXPLOSION-PROOF CLASS I GROUP D

Model SG Pumps
Compatible for Gasoline, Kerosene, Avgas & Jet Fuel

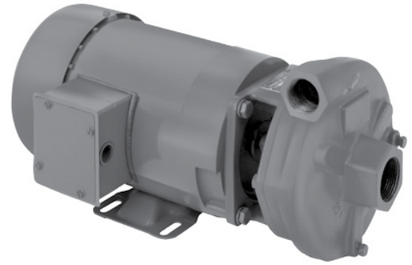
The “SG” models are available in Pedestal mount for flexible coupling or Close Coupled mount to C-Face Class 1 Group D Explosion-Proof motors. Ductile Iron is the standard construction for the housing and adapter. Aluminum enclosed impellers are standard in the SG Series. The standard self-lubricating Type 2 mechanical seal is equipped with a carbon rotating face, viton elastomer and SS spring. The stationary seal face is silicon carbide.



MODEL	SIZE INCHES	PORT	MOUNTING	STANDARD MATERIALS OF CONSTRUCTION			
				HOUSING	IMPELLER	GASKET	SEAL
SG60	1¼ × 1	NPT	Explosion-Proof	Ductile Iron	Aluminum	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SG80	1½ × 1¼	Flange	Explosion-Proof	Ductile Iron	Aluminum	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SG80	1½ × 1¼	Flange	Pedestal	Ductile Iron	Aluminum	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SG120	2 × 1½	Flange	Explosion-Proof	Ductile Iron	Aluminum	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SG120	2 × 1½	Flange	Pedestal	Ductile Iron	Aluminum	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SG180	3 × 1½	Flange	Explosion-Proof	Ductile Iron	Aluminum	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SG180	3 × 1½	Flange	Pedestal	Ductile Iron	Aluminum	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SG300	3 × 2½	Flange	Explosion-Proof	Ductile Iron	Aluminum	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SG300	3 × 2½	Flange	Pedestal	Ductile Iron	Aluminum	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SG700	4 × 3	Flange	Explosion-Proof	Ductile Iron	Aluminum	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SG700	4 × 3	Flange	Pedestal	Ductile Iron	Aluminum	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS

Model SO Pumps
Compatible for BioDiesel, Fuel Oil & Diesel

The “SO” mounting offerings for fuel oil and diesel fuel applications include both Pedestal mount for flexible coupling and Close Coupled mount to NEMA C-Face, TEFC electric motors. Ductile Iron is the standard construction for the housing, and Cast Iron is the standard construction for the adapter and enclosed impeller. The standard self-lubricating 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 INCHES	PORT	MOUNTING	STANDARD MATERIALS OF CONSTRUCTION			
				HOUSING	IMPELLER	GASKET	SEAL
SO60	1¼ × 1	NPT	TEFC	Cast Iron	Cast Iron	Fiber	Type 21 Viton/Carbon/ Ni-Resist/SS
SO80	1½ × 1¼	Flange	TEFC	Ductile Iron	Cast Iron	Fiber	Type 21 Viton/Carbon/ Ni-Resist/SS
SO80	1½ × 1¼	Flange	Pedestal	Ductile Iron	Cast Iron	Fiber	Type 21 Viton/Carbon/ Ni-Resist/SS
SO120	2 × 1½	Flange	TEFC	Ductile Iron	Cast Iron	Fiber	Type 21 Viton/Carbon/ Ni-Resist/SS
SO120	2 × 1½	Flange	Pedestal	Ductile Iron	Cast Iron	Fiber	Type 21 Viton/Carbon/ Ni-Resist/SS
SO180	3 × 1½	Flange	TEFC	Ductile Iron	Ductile Iron	Fiber	Type 21 Viton/Carbon/ Ni-Resist/SS
SO180	3 × 1½	Flange	Pedestal	Ductile Iron	Ductile Iron	Fiber	Type 21 Viton/Carbon/ Ni-Resist/SS
SO300	3 × 2½	Flange	TEFC	Ductile Iron	Cast Iron	Fiber	Type 21 Viton/Carbon/ Ni-Resist/SS
SO300	3 × 2½	Flange	Pedestal	Ductile Iron	Cast Iron	Fiber	Type 21 Viton/Carbon/ Ni-Resist/SS
SO700	4 × 3	Flange	TEFC	Ductile Iron	Ductile Iron	Fiber	Type 21 Viton/Carbon/ Ni-Resist/SS
SO700	4 × 3	Flange	Pedestal	Ductile Iron	Ductile Iron	Fiber	Type 21 Viton/Carbon/ Ni-Resist/SS

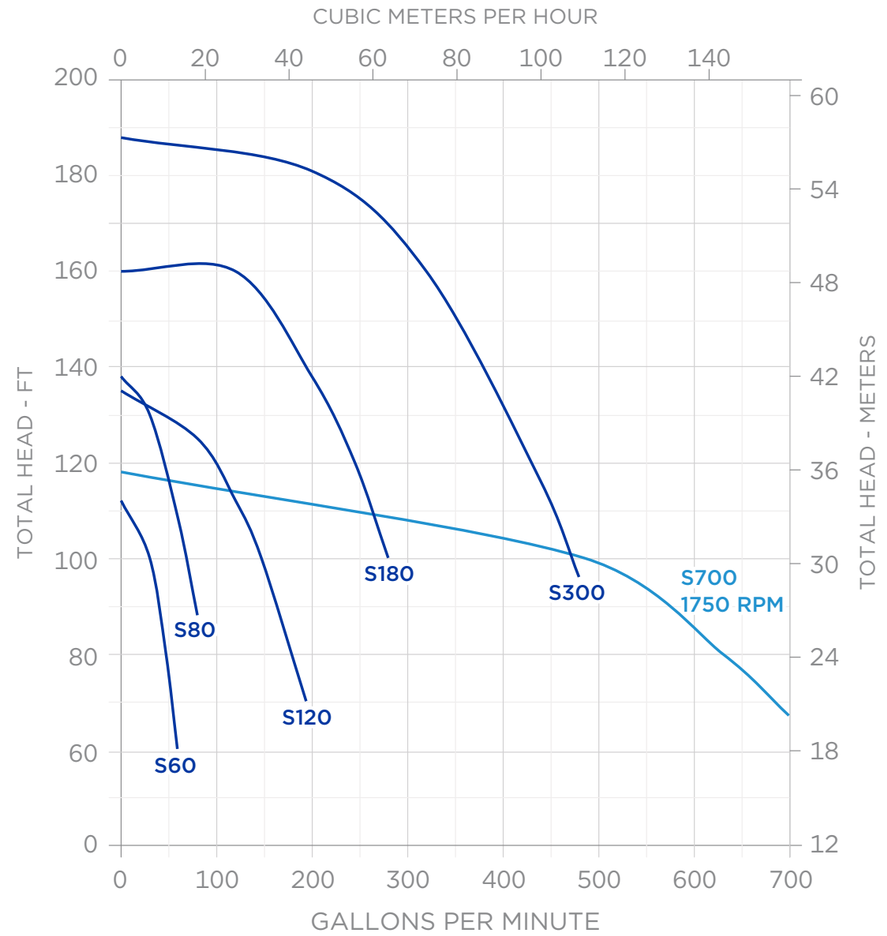
Model SE Pumps
Compatible for Ethanol & E 85

The “SE” models are available in Pedestal mount for flexible coupling or Close Coupling to NEMA C-Face Class 1 Group D Explosion-Proof motors. Ductile iron is the standard construction for the housing and adapter. The enclosed impeller is standard in cast iron construction. The standard self-lubricating 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 INCHES	PORT	MOUNTING	STANDARD MATERIALS OF CONSTRUCTION			
				HOUSING	IMPELLER	GASKET	SEAL
SE60	1¼ × 1	NPT	Explosion-Proof	Ductile Iron	Cast Iron	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SE80	1½ × 1¼	Flange	Explosion-Proof	Ductile Iron	Cast Iron	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SE80	1½ × 1¼	Flange	Pedestal	Ductile Iron	Cast Iron	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SE120	2 × 1½	Flange	Explosion-Proof	Ductile Iron	Cast Iron	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SE120	2 × 1½	Flange	Pedestal	Ductile Iron	Cast Iron	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SE180	3 × 1½	Flange	Explosion-Proof	Ductile Iron	Ductile Iron	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SE180	3 × 1½	Flange	Pedestal	Ductile Iron	Ductile Iron	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SE300	3 × 2½	Flange	Explosion-Proof	Ductile Iron	Cast Iron	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SE300	3 × 2½	Flange	Pedestal	Ductile Iron	Cast Iron	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SE700	4 × 3	Flange	Explosion-Proof	Ductile Iron	Ductile Iron	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS
SE700	4 × 3	Flange	Pedestal	Ductile Iron	Ductile Iron	Fiber	Type 2 Viton/Carbon/ Sil. Car./SS

Performance Curves

Petroleum End Suction 3500 RPM 1750 RPM



The leader in every market we serve

by continuously improving all business processes

with a focus on innovation and velocity

MP PUMPS

An Ingersoll Rand Business

IR Ingersoll Rand

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ABS TYPE APPROVED PRODUCT

PEI MEMBER

Please recycle after use.

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