SFFECO with its more than 30 years of experience has always been a progressive organization that has remained in the forefront of the fire fighting industry with innovative, re-engineered and unique products.

SFFECO in its state-of-the-art manufacturing plants in RIYADH & DUBAI works in close connections with renowned governmental and certification bodies to provide key answers to the challenges faced by the society.

SFFECO brings together over 3-Decades of expertise and experience in form of Design, Consultancy, Testing, Commissioning, Maintenance & Refurbishment of fire protection and fire fighting systems.

SFFECO is proud to be working with international certification bodies. For specific product certifications, please check the respective product page or contact our sales team.
MANUFACTURING
Each pump undergoes required inspection, tests and production control during the assembly process and records are logged for the same, before being delivered to our customers.

TESTING FACILITY
SFFECO has established a fully equipped state of the art, UL/FM and NFPA 20 compliant Pump Testing facility with advance testing and calibration devices that enable us to accurately inspect and test the operation of each Centrifugal Stationery Fire Pump to the required level of compliance standard.

PERFORMANCE TESTS
Each pump produced, undergoes performance testings as follows

a) OPERATION TEST
Performance curves are plotted showing the Efficiency, Brake-Horsepower (kW), and Total Head developed at shutoff, at rated capacity, at 150 percent of rated capacity, and at selected intermediate capacities between shutoff and maximum capacities exceeding 150% of rated capacity.

b) HYDROSTATIC TEST
Each pump is tested hydrostatically for not less than 5 minutes. The test pressure is to be upto 2 times the maximum working pressure of the pump, but in no case less than 250 psi (1724 kPa) to ensure no rupture or leakage through the castings at the test pressure.

c) IMPELLER BALANCING
The impellers of each pump are dynamically balanced to the G6.3 balance quality grade in accordance with the requirements for pump impellers in the Standard for Mechanical Vibration – Balance Quality

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PERFORMANCE TESTS
Each pump produced, undergoes performance testings as follows

a) OPERATION TEST
Performance curves are plotted showing the Efficiency, Brake-Horsepower (kW), and Total Head developed at shutoff, at rated capacity, at 150 percent of rated capacity, and at selected intermediate capacities between shutoff and maximum capacities exceeding 150% of rated capacity.

b) HYDROSTATIC TEST
Each pump is tested hydrostatically for not less than 5 minutes. The test pressure is to be upto 2 times the maximum working pressure of the pump, but in no case less than 250 psi (1724 kPa) to ensure no rupture or leakage through the castings at the test pressure.

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PERFORMANCE TESTS
Each pump produced, undergoes performance testings as follows

a) OPERATION TEST
Performance curves are plotted showing the Efficiency, Brake-Horsepower (kW), and Total Head developed at shutoff, at rated capacity, at 150 percent of rated capacity, and at selected intermediate capacities between shutoff and maximum capacities exceeding 150% of rated capacity.

b) HYDROSTATIC TEST
Each pump is tested hydrostatically for not less than 5 minutes. The test pressure is to be upto 2 times the maximum working pressure of the pump, but in no case less than 250 psi (1724 kPa) to ensure no rupture or leakage through the castings at the test pressure.

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The impellers of each pump are dynamically balanced to the G6.3 balance quality grade in accordance with the requirements for pump impellers in the Standard for Mechanical Vibration – Balance Quality
CENTRIFUGAL FIRE PUMPS

END SUCTION

50/60 HZ

Top Centerline Discharge
Foot Supported Casing
Back Pullout Design
Self-Venting Design
Efficiently Designed Impeller
Frame-Mounted Design
Small Footprint Ideal for Retrofit
Dynamically Balanced Impeller
Heavy Duty With Heavy Wall Thickness
100% Hydrostatic & Performance Tested
Back Pump Out Vanes

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Rated Capacity GPM</th>
<th>Size (In.)</th>
<th>UL Listed Rated Net Pressure Range (PSI)</th>
<th>FM Approved Rated Net Pressure Range (PSI)</th>
<th>Approx Speed (RPM)</th>
<th>Max Working Pressure (PSI)</th>
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CAPACITY 50 GPM TO 1000 GPM
PRESSURES 68 TO 216 PSI
MAX WORKING PRESSURE 225 TO 250 PSI
SPEED 2900, 3000, 3500 & 3600 RPM

UL LISTED & FM APPROVED PUMPS
Compliant to NFPA 20 Design & Installation Requirements.

Wide Range of Flows and Pressures Available in ELECTRIC MOTOR and DIESEL ENGINE Driven Configuration
Suitable for Commercial, Industrial and Buildings Applications.

Notes:
1. All Pumps are Hydrostatically Tested to minimum of 150% of its Maximum Working Pressure and can withstand Double the Maximum Working Pressure.
2. All Pumps have Clock-Wise Rotation when viewed from the Driver Side.
3. All Pumps are horizontal single stage Pumps.
4. The rated speed marked on the pump can vary within +/-4% of the listed/ approved rated speed example 3000 RPM pump can be driven with 2900 RPM Drivers.
**CENTRIFUGAL FIRE PUMPS**

**END SUCTION**

50/60 HZ

Top Centerline Discharge
Foot Supported Casing
Back Pullout Design
Self-Venting Design
Efficiently Designed Impeller
Frame-Mounted Design
Small Footprint Ideal for Retrofit
Dynamically Balanced Impeller
Heavy Duty With Heavy Wall Thickness
100% Hydrostatic & Performance Tested
Back Pump Out Vanes

**UL LISTED & FM APPROVED PUMPS**

Compliant to NFPA 20 Design & Installation Requirements.

**Wide Range of Flows and Pressures**

Available in ELECTRIC MOTOR and DIESEL ENGINE Driven Configuration

Suitable for Commercial, Industrial and Buildings Applications.

**CAPACITY** : 50 GPM TO 1000 GPM

**PRESSURES** : 68 TO 216 PSI

**MAX WORKING PRESSURE** : 225 TO 250 PSI

**SPEED** : 2900, 3000, 3500 & 3600 RPM

---

### Table of Model Details

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Capacity (GPM)</th>
<th>Size (In.)</th>
<th>UL Listed Rated Net Pressure Range (PSI)</th>
<th>FM Approved Rated Net Pressure Range (PSI)</th>
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<td>3200</td>
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---

**Notes:**

1. All Pumps are Hydrostatically Tested to minimum of 150% of its Maximum Working Pressure and can withstand Double the Max. Working Pressure.
2. All Pumps have Clock-Wise Rotation when viewed from the Driver Side.
3. All Pumps are horizontal single stage Pumps.
4. The rated speed marked on the pump can vary within +/-4% of the listed/approved rated speed example: 3000 RPM pump can be driven with 2900 RPM Drivers.
# CENTRIFUGAL FIRE PUMPS

## SPLIT CASE

50/60 HZ

- **Volute Type Thru-Bore Casing**
- **Frame-Mounted Design**
- **Small Footprint Ideal for Retrofit**
- **Dynamically Balanced Double Suction Impeller**
- **Heavy Duty With Heavy Wall Thickness**
- **100% Hydrostatic & performance Tested**

## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Capacity (GPM)</th>
<th>Size (in.)</th>
<th>UL Listed Rated Net Pressure Range (PSI)</th>
<th>FM Approved Rated Net Pressure Range (PSI)</th>
<th>Approx Speed (RPM)</th>
<th>Max Working Pressure (PSI)</th>
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**CAPACITY**: 150 GPM TO 3500 GPM

**PRESSURES**: 88 TO 335 PSI

**MAX WORKING PRESSURE**: 220 TO 405 PSI

**SPEED**: 2900, 3000, 3500 AND 3600 RPM

Available in ELECTRIC MOTOR and DIESEL ENGINE Driven Configuration

Suitable for Commercial, Industrial and Buildings applications.

UL LISTED & FM APPROVED PUMPS

Compliance to NFPA 20 Design & Installation Requirements.

Wide Range of Flows and Pressures

---

1. All Pumps are Hydrostatically Tested to minimum of 150% of its Maximum Working Pressure and can withstand Double the Max Working Pressure.
2. All Pumps have Clock-Wise Rotation when viewed from the Driver Side.
3. All Pumps are horizontal single stage Pumps.
4. The rated speed marked on the pump can vary within +/-4% of the listed approved rated speed example: 3000 RPM pump can be driven with 2900 RPM Drivers.
Wide Range of Flows and Pressures
Requirements.
Compliance to NFPA 20 Design & Installation
UL LISTED & FM APPROVED PUMPS
Buildings applications.
Suitable for Commercial, Industrial and
ENGINE Driven Configuration
Available in ELECTRIC MOTOR and DIESEL
ENGINE Driven Configuration
Suitable for Commercial, Industrial and
Buildings applications.
UL LISTED & FM APPROVED PUMPS
Compliance to NFPA 20 Design & Installation
Requirements.

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<th>Model Disg.</th>
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<th>Size (in.)</th>
<th>UL Listed Rated Net Pressure Range (PSI)</th>
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<th>Max Working Pressure (PSI)</th>
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</tbody>
</table>

Notes:
1. All Pumps are Hydrostatically Tested to minimum of 150% of its Maximum Working Pressure and can withstand Double the Max.Working Pressure.
2. All Pumps have Clock-Wise Rotation when viewed from the Driver Side.
3. All Pumps are horizontally single stage Pumps.
4. The rated speed marked on the pump can vary within +/-4% of the listed/approved rated speed example: 3500 RPM pump can be driven with 2900 RPM Drivers.*
Designed and built as per UL 448 AND NFPA20
Dynamically Balanced impeller
Constructed in variety of metallurgies
Available in 50 Hz and 60 Hz
Drivers with gear boxes at electrical and diesel speed
Designed for easy maintenance
Open line shaft
Packaged systems available
Self-Venting Design eliminates vapor lock
Efficiently Designed Shaft
Heavy wall thickness
Sealing arrangement is packing design
Modular Construction
Space-saver design

### Specifications

<table>
<thead>
<tr>
<th>Model Dsg</th>
<th>Rated Capacity (GPM)</th>
<th>UL Listed</th>
<th>Rated Net Pressure Range (PSI)</th>
<th>Approx Speed (RPM)</th>
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**FLOW CAPACITY**
200 GPM - 2000 GPM

**PRESSURE RANGE**
40 - 355 PSI

**MAX WORKING PRESSURE**
290 PSI - 395 PSI

**SPEED**
1480, 1760, 2900, 2980, 3000 RPM

**Notes:**
1. All Pumps are Hydrostatically Tested to minimum of 150% of its Maximum Working Pressure and can withstand Double the Max.Working Pressure.
2. All Pumps have Clock-Wise Rotation when viewed from the Driver Side.
4. “The rated speed marked on the pump can vary within +/-4% of the listed/approved rated speed example: 3000 RPM pump can be driven with 2900 RPM Drivers.”
### Centrifugal Fire Pumps

**Vertical Turbine**

50/60 Hz

<table>
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<tr>
<th>Model Dsg</th>
<th>Rated Capacity (GPM)</th>
<th>UL Listed Rated Net Pressure Range (PSI)</th>
<th>Approx Speed (RPM)</th>
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- **Flow Capacity**: 200 GPM - 2000 GPM
- **Pressure Range**: 40 - 355 PSI
- **Max Working Pressure**: 290 PSI - 395 PSI
- **Speed**: 1480, 1760, 2900, 2980, 3000 RPM

**Notes:**
1. All Pumps are Hydrostatically Tested to minimum of 150% of its Maximum Working Pressure and can withstand Double the Max.Working Pressure.
2. All Pumps have Clock-Wise Rotation when viewed from the Driver Side.
4. “The rated speed marked on the pump can vary within +/-4% of the listed/approved rated speed example: 3000 RPM pump can be driven with 2900 RPM Drivers.”

## FLOW CAPACITY

200 GPM - 2000 GPM

## PRESSURE RANGE

40 - 355 PSI

## MAX WORKING PRESSURE

290 PSI - 395 PSI

## SPEED

1480, 1760, 2900, 2980, 3000 RPM
All Fire Pump Controllers are factory assembled, wired, tested as a unit and comply to all requirements of the latest edition of NFPA-20 (Centrifugal Fire Pumps) and NFPA-70 (National Electrical Code). Controllers are listed by Underwriters Laboratories, Inc., in accordance with UL218, Standard for Fire Pump Controllers, CSA, and Standard for Industrial Control Equipment (CUL) and approved by Factory Mutual (FM). All controllers are Y2K compliant.

This component plays a vital role in operation of fire pumps as it controls the entire system. It is selected as per customer choice if any, otherwise it can be either TORNATECH, FIRETROL, HUBBLE LEXINGTON OR JOSLYN CLARKE.
SFFECO is an established well reputed manufacturer of Premium Custom Engine Driven Centrifugal Fire Pump Skids. We specialized in designing and developing packages in accordance to NFPA 20 requirements with Listed & Approved Drivers.

SFFECO offers listed Centrifugal Fire Pump Skids that meet every fire protection need.

- Driven by Listed & Approved Diesel Engines & Electric
- Well aligned and Coupled for Direct Operation.
- Skid Packages are Pre-Tested and Inspected thoroughly before release to customers.
- One piece base plate with Anchor Bolt holes.
- Engineered, coated, hot rolled mild steel to resist corrosion and abrasion.
- Heavy Fabricated C-Channel Structure constructed to provide proper alignment of Pump with Diesel Engine or Pump.
- Heavy Fabricated Steel base plate rigidly constructed to provide proper alignment of pump & Electric Motor.
- Compact skid Design with Small Foot-Print for Retrofit.
- High standard of Quality in material Construction finish and Workmanship.

SFFECO maintains its standard with using it’s proudly own listed & approved Black Stallion Diesel Engines & High efficiency and Centrifugal Fire Pumps to package Heavy Duty and High Quality Compact Skids.

Our Listed and Approved Fire Pumps can also be coupled with any other Electric Motor and Listed Diesel Engine of any specific brands as per customer’s requirement.
# Fire Pump Order Form

**Technical Data for Horizontal Pumps**

## General Information

<table>
<thead>
<tr>
<th>Customer Name:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Project:</td>
<td></td>
</tr>
<tr>
<td>Location:</td>
<td></td>
</tr>
<tr>
<td>Purchase Order No.:</td>
<td></td>
</tr>
<tr>
<td>Work Order No.:</td>
<td></td>
</tr>
</tbody>
</table>

## Centrifugal Pump Details

- **Flow (GPM):**
- **Pressure (BAR (psi)):**
- **Speed (RPM):**
- **Pump Model No.:**
- **Duty Point Curve No.:** SDC

## Motor Driver Details

<table>
<thead>
<tr>
<th>Motor Power (HP):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (V):</td>
<td></td>
</tr>
<tr>
<td>Ph</td>
<td></td>
</tr>
<tr>
<td>Hz</td>
<td></td>
</tr>
<tr>
<td>RPM</td>
<td></td>
</tr>
</tbody>
</table>
- **Starter Connection:**
  - Direct On-Line (DOL)
  - Start Delta (Y-Δ)
  - Others:  
- **Motor Protection:**
  - OPD (IP 23)
  - TEFC (IP 55)
  - Brand:  
- **Electric Motor Controller:**
  - Brand:  
  - Controller Model No:  
  - Protection: NEMA 2, Others:  
  - Type: GPA, GPY, GPL, Others:  
  - Speed Ratio:  
  - Other Specific Requirements:
**ENGINE DRIVER DETAILS**

<table>
<thead>
<tr>
<th>Engine Power:</th>
<th>HP</th>
<th>RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diesel Driven Skid No.:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diesel Engine Controller:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type:</th>
<th>GPD</th>
<th>Protection:</th>
<th>NEMA 2</th>
<th>Others:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Specific Requirements:</th>
</tr>
</thead>
</table>

**JOCKEY PUMP DETAILS**

<table>
<thead>
<tr>
<th>Brand:</th>
<th>JOCKEY Model No.:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power:</td>
<td>HP</td>
</tr>
<tr>
<td>Flow:</td>
<td>GPM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Jockey Pump Controller:</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Type:</th>
<th>JP3</th>
<th>Protection:</th>
<th>NEMA 2</th>
<th>Others:</th>
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</thead>
<tbody>
<tr>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Specific Requirements:</th>
</tr>
</thead>
</table>

**ACCESSORIES**

**STANDARD ACCESSORIES:**  
- Included in all SFECO UL Listed Fire Pump Systems
- Discharge and Suction Gauges
- Air Release Valve (Split Case Pump Only)
- Casing Relief Valve
- Battery
- Battery Cable and Clamps
- Flexible Fuel Hoses
- Diesel Tank and Accessories
  - Ball Valve
  - Fuel Level Gauge
  - SFECO Tank Breather

**OPTIONAL ACCESSORIES:**

- Flow Meter
- Main Relief Valve
- Waste Cone
- Check Valve
- Discharge TEE
- Flexible Connector
- Eccentric Reducer
- Concentric Reducer
- Hose Valves with Cap and Chain
- Ball Drip Valve
- OS&Y Gate Valve
- Butterfly Valve

*If flow and pressure is not known; please send the brief description of application (hazard).  
Pump location, connection system (hydrant, sprinkler, etc), as well as the maximum height to generate and recommend the suitable pump for the application.*
**FIRE PUMP ORDER FORM**

**TECHNICAL DATA FOR VERTICAL PUMPS**

### GENERAL INFORMATION

<table>
<thead>
<tr>
<th>Customer Name:</th>
<th>PROJECT:</th>
<th>Location:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PURCHASE ORDER NO.:</td>
<td>WORK ORDER NO.:</td>
</tr>
</tbody>
</table>

### CENTRIFUGAL PUMP DETAILS

<table>
<thead>
<tr>
<th>Model No.:</th>
<th>GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curve No.:</td>
<td></td>
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<tr>
<td>Flow: GPM</td>
<td></td>
</tr>
<tr>
<td>Pressure: Bar(PSI)</td>
<td></td>
</tr>
<tr>
<td>Speed: RPM</td>
<td></td>
</tr>
<tr>
<td>Stages: Bar(PSI)</td>
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</tbody>
</table>

### ELECTRICAL SKID DETAILS

<table>
<thead>
<tr>
<th>Electrical Skid No.:</th>
<th>Type:</th>
<th>Horizontal Motor</th>
<th>Vertical Motor</th>
<th>Brand:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Details:</td>
<td>Power</td>
<td>HP</td>
<td>Speed</td>
<td>RPM</td>
</tr>
<tr>
<td>Motor Protection:</td>
<td>ODP (IP23)</td>
<td>WP-1</td>
<td>TEFC(IP55)</td>
<td>Others</td>
</tr>
<tr>
<td>Motor Efficiency:</td>
<td>IE1</td>
<td>IE2</td>
<td>IE3</td>
<td>Others</td>
</tr>
<tr>
<td>Starter Connection:</td>
<td>Direct On Lin (DOL)</td>
<td>Star-Delta</td>
<td>Others</td>
<td></td>
</tr>
</tbody>
</table>

### GEAR DRIVE DETAIL FOR HORIZONTAL MOTOR

- Gear Drive Make: AMARILLO
- Gear Drive Model No.:
- Gear Drive Shaft Model No.:
- Gear Drive Shaft BX Size (MM): |
- Gear Drive Nominal Ratio: |
- Gear Drive Actual Ratio: |
- Gear Drive Input Speed (RPM): |
- Gear Drive Output Speed: |
- Gear Drive Coupling Size (MMXMM): |
- GD Cardan Shaft Model No.: |

### VERTICAL MOTOR DETAIL

- Motor Type: HOLLOW SHAFT
- Motor Make: |
- Motor Model No.: |
- Motor Shaft Model No.: |
- Motor Shaft BX Size (MM): |
- Motor Output Speed (RPM): |
- Motor Coupling Size (MMXMM): |
- Ratchet Type: |
- Direction of Rotation (Top View): |
- Insulation Class: |

**NOTE:** The pump and pump driver selection is made on the basis of maximum horsepower of the pump where accepted by AHJ, selection can be provided at power required at 150% of the rated flow.
ENGINE DRIVER DETAILS

ELECTRICAL SKID NO.: 

ENGINE POWER: HP RPM

STARTER VOLTAGE: 

BRAND: 

ENGINE MODEL NO.: 

GEAR DETAIL FOR DIESEL ENGINE:

GEAR DRIVE MAKE: 

GEAR DRIVE SHAFT MODEL NO.: 

GEAR DRIVE NOMINAL RATIO: 

GEAR DRIVE INPUT SPEED (RPM): 

GEAR DRIVE COUPLING SIZE (MMXMM): 

GEAR DRIVE MODEL NO.: 

GEAR DRIVE SHAFT BX SIZE (MM): 

GEAR DRIVE ACTUAL RATIO: 

GEAR DRIVE OUTPUT SPEED: 

GD CARDAN SHAFT MODEL NO.: 

OTHER SPECIFIC REQUIREMENTS:

NOTE: THE PUMP AND PUMP DRIVER SELECTION IS MADE ON THE BASIS OF MAXIMUM HORSEPOWER OF THE PUMP WHERE ACCEPTED BY AHJ, SELECTION CAN BE PROVIDED AT POWER REQUIRED AT 150% OF THE RATED FLOW.

JOCKEY PUMP DETAILS

BRAND: GMAX

JOCKEY MODEL NO.: GVR 4-80

POWER: 2 HP VOLTAGE: 380 V 3 Ph 50 Hz

FLOW: 10 GPM PRESSURE 7 BAR (psi) SPEED 2900 RPM

JOCKEY PUMP CONTROLLER:

BRAND: TORNATECH

CONTROLLER MODEL NO: JP3

TYPE: JP3 PROTECTION: NEMA 2 OTHERS: please specify

OTHER SPECIFIC REQUIREMENTS:

ACCESSORIES

STANDARD ACCESSORIES:
Included in all SFFECO UL Listed Fire Pump Systems

- Discharge and Suction Gauges
- Air Release Valve (Split Case Pump Only)
- Casing Relief Valve
- Battery
- Battery Cable and Clamps
- Flexible Fuel Hoses
- Diesel Tank and Accessories
  - Ball Valve
  - Fuel Level Gauge
  - SFFECO Tank Breather

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- Butterfly Valve

If Flow and pressure is not known; please send the brief description of application (hazard).
Pump location, connection system (hydrant, sprinkler, Etc), as well as the maximum height to generate and recommend the suitable pump for the application.
P.O.Box 261318
Jebel Ali Freezone
Dubai, U.A.E

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F: +971 4 880 9822
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W: www.sffecoglobal.com