

# FUELS CONSUMPTION KIT - Marine



**FLOMEC® Fuel Consumption System (FCS)** is a complete fuel monitoring system that comprises 2x EGM positive displacement meters coupled with an F127 flow instrument for accurate measurement of fuel consumption rates and total fuel consumption. The FCS can accurately measure fuel consumption on combustion engines by correcting for temperature differences from the inlet to outlet of the engine. Pulsating flow electronics, eliminating error due to fuel injection pulsation, coupled with integral PT100 resistance thermometers in Flomec's renowned positive displacement meters gives an accurate and economic fuel consumption measurement solution for all engine sizes.

## PRODUCT CONFIGURATION

### GENERAL SPECIFICATIONS

#### EGM Flowmeter

- Flow Rates: 2 L/hr - 80 L/min)
- Sizes: 1/4" - 3/4" (6 mm - 20 mm)
- Engine Power: 7.5HP - 5000HP (Please consult distributor for larger engines)
- Temperature Range: -40°C - +80°C
- Body Material: Stainless Steel 316
- Rotor Material: PPS (Stainless Steel 316 for EGM006 meters)
- Cable Length: 2 meters (can extend using cable connector)

#### F127 Totalizer

- Casing: Robust IP66/IP67 field enclosure
- Display: 7-digit resettable total, 11-digit accumulated total with backlight
- Required Power Supply: 8 – 24V (dc) (back up power supply built in to save settings in case of power failure)
- Temperature Limit: -40°C - +80°C
- Output Options: 4-20mA and pulse output available

### KIT SELECTION

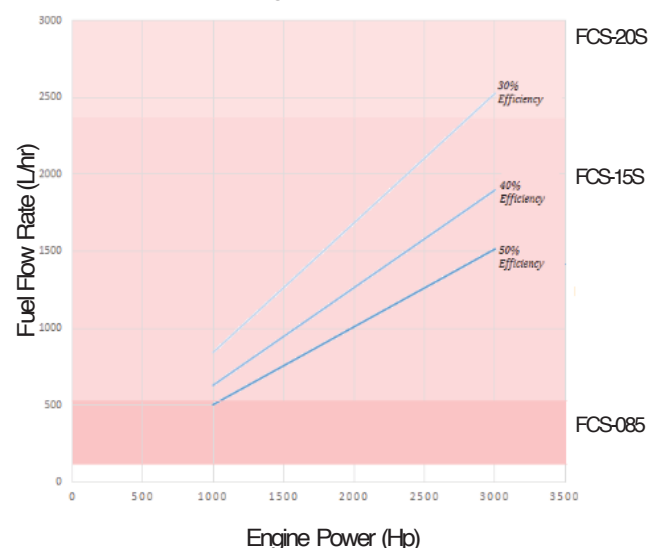
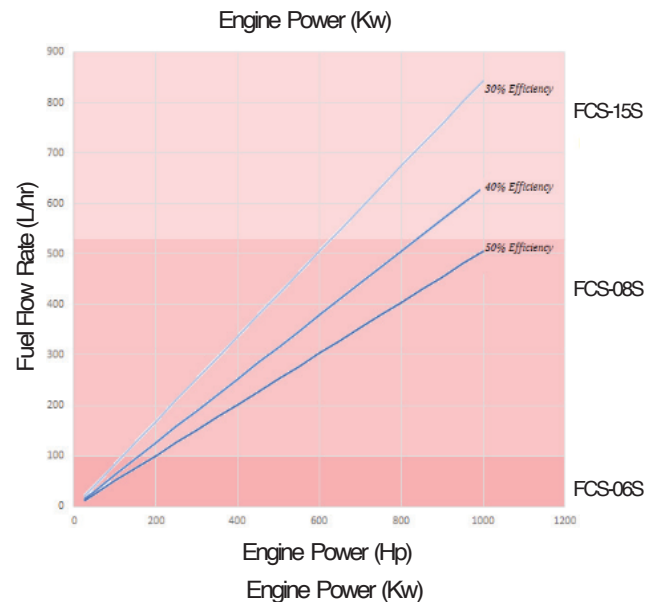
Although each Fuel Consumption Kit consists of the same items, the size of the meter and the process connections change depending on the rate of flow, which is a direct correlation to the size of the engine.

A typical diesel fuel loop system would on average have 3.5 times more fuel in its line than what the engine consumes at full load. With this in mind, selecting the right kit based on the engine's power output is important to ensure accuracy and the positive displacement meters' longevity.

The graphs depicted here should be used as a guide when determining the size of kit is required.

### KIT INCLUDES:

- 2 x EGM-Series Electronic Flowmeter
- 1 x F127 Totaliser
- 2 x Meter Brackets
- 2 x Fuel Strainer plus Connector
- Cable Glands

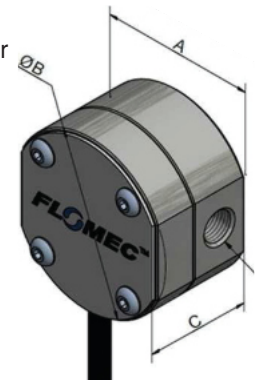


## KIT SELECTION (CONTINUED)

	Meter A Specification (Inlet) Size Flow Range			Process Connections	Meter B Specification (Outlet) Size Flow Range		
FCS-06S	1/4" (6 mm)	2-100 L/hr	0.5-27 GFH	NPT Female Thread	1/4" (6 mm)	2-100 L/hr	0.5-27 GFH
FCS-08S	3/8" (8 mm)	15-550 L/hr	4-145 GFH	NPT Female Thread	3/8" (8 mm)	15-550 L/hr	4-145 GFH
FCS-15S	1/2" (15 mm)	1-40 L/min	0.26-10.6 GFM	NPT Female Thread	1/2" (15 mm)	1-40 L/min	0.26-10.6 GFM
FCS-20S	3/4" (20 mm)	3-80 L/min	0.5-21 GFM	NPT Female Thread	3/4" (20 mm)	3-80 L/min	0.5-21 GFM

## DIMENSIONS

EGM  
Flow Meter

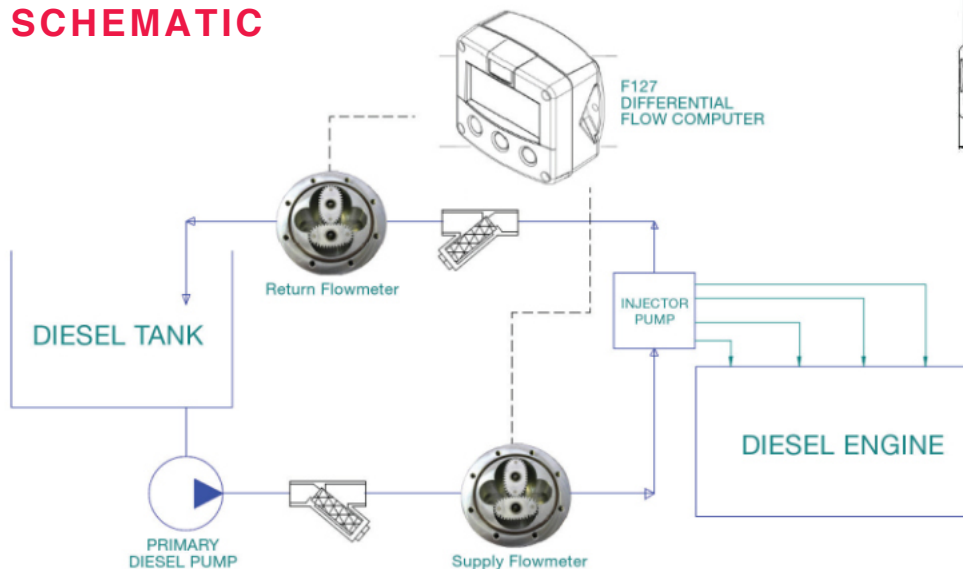


## ACCESSORIES

Part Number	Item	Description
1522056	F-Series Wall Mount Kit	Stainless Steel wall mount kit for F127 totaliser, screws included
1522052	F-Series Pipe Mount Kit	Stainless Steel wall pipe kit for F127 totaliser, excludes worm clamps
1522063	Worm Clamp Kit 1.0-1.57"(25-40 mm)	Includes 2pcs of stainless steel worm clamps to suit #1522052 and pipe. OD from 1.0-1.57"(25-40 mm)
1522055	Worm Clamp Kit 1.81-2.76"(46-70 mm)	Includes 2pcs of stainless steel worm clamps to suit #1522052 and pipe. OD from 1.81-2.76"(46-70 mm)
1519011	M16 Cable Gland	Includes cable gland, locking nut and o-ring
1519012	M20 Cable Gland	Includes cable gland, locking nut and o-ring
1519010	Cable Connector	7-Pin IP67 Polyamide connector kit

Model:	A	B	C
EGM006	2.28" (58 mm)	2.54" (64.5 mm)	1.54" (39 mm)
EGM008	2.28" (58 mm)	2.54" (64.5 mm)	1.93" (49 mm)
EGM015	2.84" (72 mm)	3.23" (82 mm)	2.60" (66 mm)
EGM020	2.84" (72 mm)	3.23" (82 mm)	3.03" (77 mm)

## SCHEMATIC



## F127 Totaliser

