

FLOWMETERS CATALOGUE



PT. FERINDO ENERGI INSTRUMEN

Your trusted flowmeters supplier

Ruko Citra 6 Blok H1A, No.7
Kel. Tegar Alur Kec. Kalideres, Jakarta barat
Phone: 021-29430632 / 021-29430633

FCM Series Positive Displacement Flow Meter



FCM50 Meter with Register Strainer & Air Eliminator

Characteristics

- Excellent stepless adjusting mechanism allows a micro adjustment of the meter
- High accuracy and repeatability over the widest range of flow; Superior accuracy at constant flow
- Low maintenance, no metal-to-metal contact in measuring chamber, long life service
- Low pressure loss, a true gravity flow meter
- Accuracy regardless of pressure fluctuations, temperature variation, viscosity
- Choice of aluminum, cast iron and stainless steel materials of construction

Construction



Technical Specification

Model	FCM40	FCM50	FCM50-L	FCM80	FCM80-L	FCM100	FCM100-L	FCM150	FCM150-L	
Size	40mm / 1.5"	50mm / 2 "		80mm / 3 "		100mm / 4 "		150mm / 6 "		
Flow Range (L/Min)	25-250	38-380	55-550	75-750	115-1150	130-1300	170-1700	225-2250	300-3000	
Volume /Rev.	0.309L	0.681L		1.839L		5.102L		9.507L		
Max. Pressure					10Bar/150PSI			25Bar/350PSI		
Accuracy					± 0.1%					
Repeatability					≤ 0.05%					
Standard Measurement					Liter / US Gallon/IMP Gallon					
Viscosity					30SSU~1,500,000SSU					

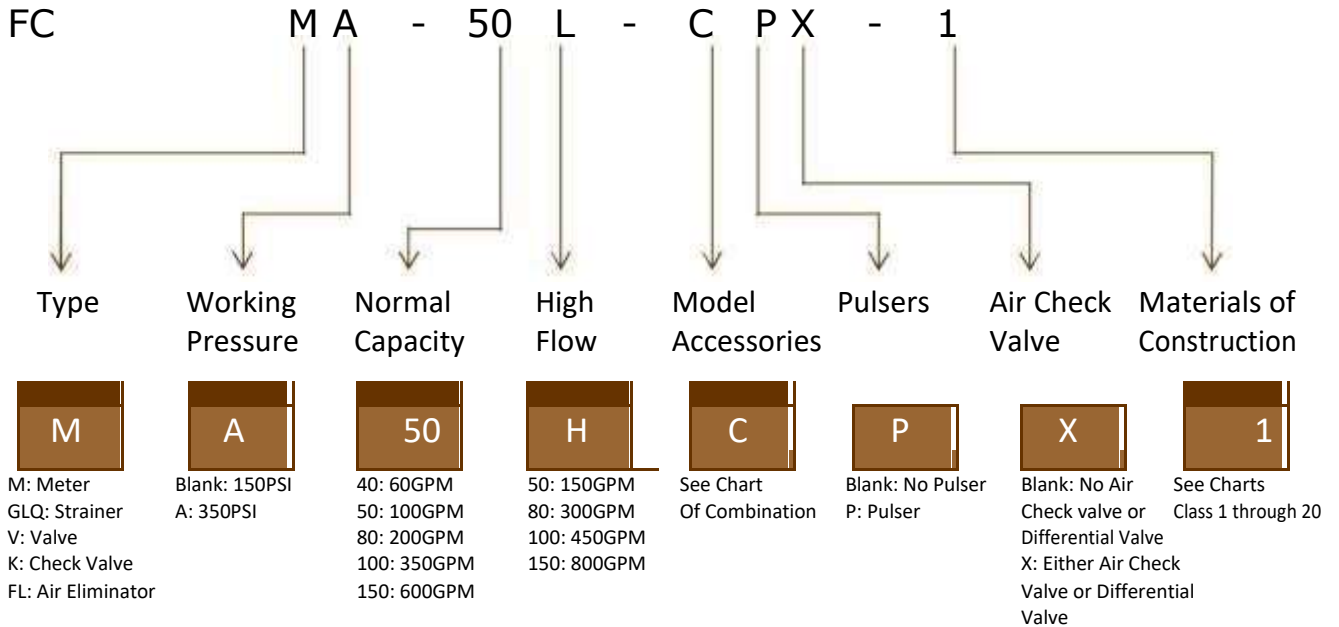
Note:4"&6" flange available for FCM150/6" Meter.

Packaging Data

Model	FCM40	FCM50	FCM80	FCM100	FCM150
Packaging	1 pc/Wooden Case				
Net Weight	23Kgs	26Kgs	40Kgs	70Kgs	130Kgs
Gross Weight	35Kgs	38Kgs	55Kgs	90Kgs	155Kgs
Size	53×48×53cm	53×48×53cm	58×50×61cm	76×64×72cm	80×65×79cm

Positive Displacement Flow Meter

Model No. Description



Industries

- Automotive;
- Adhesives;
- Agriculture;
- Asphalt ;
- Aviation fueling ;
- Animal feeds; Beverage;
- Cosmetics ;
- Chemical processing;
- Concrete Add mixtures;
- Dairy; Liquid fertilizers;
- Food processing ;
- Fuel oil delivery;
- General industrial;
- Hydrocarbon processing;
- Liquefied gases;
- Lube oils; Marine;
- Paint and varnish;
- Petroleum marketing;
- Petroleum production ;
- Pharmaceutical;
- Printing ink;
- Pulp & paper;
- Refining commercial Solvents;
- Recycling Railroad ;
- Textile.

Application

- Refined petroleum products;
- Aviation gasolines and jet fuels;
- A wide variety of products such as: liquid sugars, corn syrup, corn sweeteners, dextrose, fructose, sucrose, maltose, lactose, corn oil, soy bean oil, cotton seed oil, coconut oil;
- Treated waters (deionized, demineralized, and potable);
- Chlorinated solvents and general solvent metering;
- Acid pH liquids;
- Liquefied petroleum gas(LPG);
- Crude oil, also for heated and/or viscous liquids;
- Oil or water based latex products, polyester resins, and adhesives (neutral pH), also for metering herbicides and nitrogen fertilizer solutions;
- Herbicide;
- Sodium hydroxide (caustic) solutions, high sulfur crude oil (LACT and NOD) and other alkaline pH liquids;
- Abrasive liquids.

Positive Displacement Flow Meter



FCM80 Meter



FCM80 Meter with Counter



FCM80 Meter with Counter & Strainer



FCM80 Meter with Counter, Strainer & Air Eliminator



FCM-150-A-1 Meter with Counter



FCM-50-KX-1 Meter with Register Counter, Preset Counter, Preset Valve, Strainer & Air Eliminator

Positive Displacement Flow Meter



FCM-80-G-1 Meter with Counter, Strainer, Air Eliminator & Printer



FCM-50-NX-1 Meter with Preset Counter, Register Counter, Preset Valve, Strainer, Air Eliminator & Printer



FCM-80-KPX-1 Meter with Electronic Register, Strainer, Air Eliminator & Solenoid Valve



FCM-50-PP-1 Meter with Pulsar



FCMA-40-CX-10 LPG Dispenser Meter with Two Meters, Pulsers and Differential Valve, One Strainer & Air Eliminator



FCMA-50-CX-10 Meter with Register Counter, Differential Valve, Strainer & Air Eliminator

Positive Displacement Flow Meter

FCL Air Eliminator

Aluminum, cast iron, stainless steel available.



FCL Air Eliminator



FCL Air Eliminator with Plate

FCST series Strainer

Technical Specification	
Model	Diameter
FCST-50	50mm/2"
FCST-80	80mm/3"
FCST-100	100mm/4"
FCST-150	150mm/6"



FCST-50 Strainer



FCST-150 Strainer & FCL Air Eliminator

Strainer Basket

The proper strainer basket to use depends on the different product and its viscosity over the expected range of metering temperature.

Strainer Mesh	General Application
200M	LPG only
100M	Gasoline, Solvents, LPG
80M	Gasoline, Solvents
40M	Heating Oil, Diesel fuel, Light oils
20M	Motor oils&other viscous products



Strainer Basket

FCLX Series Filter & Air Eliminator

LPGX Series Filter and Air Eliminator integrates the function of filter and air Eliminator into one body. It not only can filter the solid impurity, but also can expel the gas out the liquid at one time. It can be used to match with many kinds of flow meters to improve the measuring accuracy.

Technical Data

Diameter: DN40-200
 Nominal Pressure:1.6,2.5,4.0,6.4Mpa
 Fluid Temperature:-30℃~+250℃
 Press Loss:≤0.03Mpa

Note: bigger size can be manufactured as per requirement



FCLX Series Filter & Air Eliminator

VFC & VFCS series Piston Valves



VFC-80 Piston Valve

VFC series Mechanically actuated piston valves are designed for mounting on the meter outlet to completely shutoff the liquid flow with easy operation under any pressure system. The valve can be operated manually or connected via a mechanical linkage to a preset counter on the meter for single stage closure or two-stage closure to eliminate hydraulic shock. The valve is indexable in 90° turn for up & down or side facing outlet. 2",3",4" available for option.

Technical Specification

Model	Diameter	Used for Meter	Max. Flow Rate L/Min	Material
VFC-50	1.5" & 2"	FCM40, FCM50, FCM50-L	550	Aluminum
VFC-80	3"	FCM80, FCM80-L	1136	
VFC-100	4"	FCM100, FCM100-L	2271	

VFD Series Air Activated Differential Check Valve



VFCD-80 Check Valve

K Series Air Activated Differential Check Valves are installed at the outlet of the meter, which is designed to stop the flow of liquid whenever air is present to ensure accurate measurement.

Technical Specification

Model	Diameter	Used for Meter	Max. Flow Rate L/Min	Material
VFCD-50	1.5" & 2"	FCM40, FCM50, FCM50-L	550	Aluminum
VFCD-80	3"	FCM80, FCM80-L	1136	

VFD-50-LPG Differential Valve



VFD-LPG Differential Valve

The differential valve is mounted at the outlet of the meter and connected with the vapor eliminator with the function to shut off the liquid flow whenever vapor occurs in the tube system. The valve maintains sufficient pressure to ensure the high-vapor pressure products, such as LPG & Anhydrous Ammonia (NH₃) to be always remained in liquid state. The valve is spring loaded and to fail if closed.

Technical Specification

Model	Diameter	Used for Meter	Max. Flow Rate L/Min	Material	Working Pressure
VFD-50-LPG	1.5" & 2"	FCM40, FCM50 FCM50-L	760	Aluminum	350PSI

Solenoid Valve

Solenoid Plug Valve & Solenoid Air Check Valve
Size: 2", 3", 4" & 6"
Power: 220V/50HZ or 24V



Stainless Steel
Solenoid Plug Valve



Cast Iron Solenoid
Air Check Valve

FCR Electronic Register

Description

EFCR Electronic Register System adopts the modern high-performance ARM microprocessor with the function of high operation speed, low power consumption, stable performance and resource-rich interface. Intrinsically safe designed, it is more stable and reliable with the strong functions.

EFCR Electronic Register System is the ideal substitute product for the traditional mechanical register with advantage of high-precision measurement, stable performance, widely installed on all kinds of flow meters with the LCD display, easy & friendly operation, widely used in stock terminal, oil tank truck, service station, boatyard, etc.

EFCR Series Register



EFCR Electronic Register

Characteristics

- Matching with the variety pulser to achieve the measurement of high-precision large flow.
- Flow rate compensation and temperature compensation for choice to improve the measurement precision.
- Free refueling and preset refueling for option.
- With the automatically adjustment function.
- Equipped with printer to print the transaction records. It makes the operation very direct-viewing.



FCERS/ Electronic Register System

Technical Specification	
Power	AC220 ± 20%, 50Hz ± 1Hz
Temperature	-20 °C ~ +55 °C
Humidity	≤ 95%
Sub-total	6 Digital
Totalizer	8 Digital
Precision	± 0.1%



FC-100 Encoder

FC-100 Encoder

Specification

Voltage (V+): +8 ~ 24VDC
 Current: 26mA typical
 100 pulses per encoder revolution
 Operating temperature range: -40 °C ~ +85 °C (-40 °F ~ 185 °F)

Output Wave

