



VSAN ELECTRICALS AND SENSORS

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Introduction

VSAN ELECTRICALS AND SENSORS has specialized in the manufacturing of first-class fueling equipment. We integrate design, development, production, sales, and technical service, to provide our customers the finest experience in product quality and customer service.

Our unsurpassed products include bulk flow meter, oil pump, fuel dispenser, LPG dispenser, fuel dispenser components, oil tank truck parts, and more. VSAN places first-class quality at the top of our list, and works to continually provide the most innovative and advanced products on the market to date. Our products are durable, reliable, economical, and have received ISO90001 certifications. Our flow meter, oil pump, and fuel dispensers are exported to the United States, Europe, the Middle East, South East Asia, Africa and more. We also offer OEM services as well as customized designs according to your requirements.

M Series Positive Displacement Flow Meter



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, brass and stainless steel materials of construction.

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:

1. refined petroleum products;
2. aviation gasolines and jet fuels;
3. 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,.
4. treated waters (deionized, demineralized, and potable);
5. chlorinated solvents and general solvent metering;
6. acid pH liquids;
7. liquefied petroleum gas(LPG);
8. crude oil, also for heated and/or viscous liquids;
9. oil or water based latex products, polyester resins, and adhesives (neutral pH), also for metering herbicides and nitrogen fertilizer solutions;
10. herbicide;
11. sodium hydroxide (caustic) solutions, high sulfur crude oil (LACT and NOD) and other alkaline pH liquids ,abrasive liquids.

Technical Specification:

Technical Specification:									
Model	M-40-1	M-50-1	M-50H-1	M-80-1	M-80H-1	M-100-1	M-100H-1	M-150-1	M-150H-1
Size	40mm /1.5"	50mm / 2 "		80mm / 3 "		100mm / 4 "		150mm / 6 "	
Flow Range (L/Min)	25-250	38-380	55-550	75-750	115-1200	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 M-150/6" Meter.

Packaging Data					
Model	M-40-1	M-50-1	M-80-1	M-100-1	M-150-1
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

M series pd flow meter model M-40-1 (1.5"): with mechanical register, air eliminator and strainer



M series pd flow meter model M-50-1 (2"): with mechanical register, air eliminator and strainer



M series pd flow meter model M-80-1(3"): with mechanical register, air eliminator and strainer



M seires pd flow meter model M-50-NX-1, 2 inch: preset meter with mechanical preset register, printer, strainer, air eliminator and preset valve



M-150-1 pd flow Meter with mechanical register 4” flange, 6” for option



V & VS series Piston Valves



V-80 Piston Valve

V 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
V-50	1.5" & 2"	M-40, M-50, M-50H	550	Aluminum
V-80	3"	M-80, M-80H	1136	
V-100	4"	M-100, M-100H	2271	

K Series Air Activated Differential Check Valve



K-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
K-50	1.5" & 2"	M-40, M-50, M-50H	550	Aluminum
K-80	3"	M-80, M-80H	1136	

JSQ-2/E Electronic Register

JSQ-2/E Electronic Register Systems adopts the modern high-performance ARM micro process or 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. JSQ-2/E Electronic Register Systems is the ideal substitute products for the traditional mechanical register with advantage of high-precision measurement, stable performance, widely installed on all kind of flow meters, with the LCD display, easy & friendly operation, widely used in stock terminal, Oil tank truck, service station, boatyard, etc.

JSQ-2/E Electronic Register Systems





JSQ-2 Mechanical Register



Advantages:

The JSQ-2 Mechanical Register is the outstanding choice for recording and displaying delivery data in a wide variety of industries. In the petroleum refining and distribution field, it is used from the well to pipelines and storage centers, then to gasoline and fuel oil delivery trucks. In the chemical processing field, it can be used for displaying totals during mixing and batching operations. The mechanical Register totalizes and displays high speed deliveries and transactions in large easy-to-read figure.

1. New crisp, high visibility digital display for optimum readability in all ambient lighting.
2. Latest technology, modern materials give maximum dependability at speeds to 250 rpm of right wheel order.
3. Positive action knob reset.
4. Built-in precision totalizer accumulates up to 99,999,999 units, Delivery display 5 digital.
5. Acetal resin components for smooth operation and extra long life.
6. Fits all popular flow meters.

Mechanical Preset Counter



Advantages:

Available for either single-stage or two-stage valve closure. Sets a predetermined volume and controls a mechanically linked valve.

Gear Plate



Advantages:

The gear plate is installed in the base of the mechanical counter to convert meter rotary shaft output to an engineered unit of measure. Changing units of measure is simple since all conversions are made with easily accessible gears.

M series Meter accessories

V_ and VS_ series piston valves



Advantages:

The V_ series mechanically actuated piston valves are available in 2" through 4" sizes and are designed for mounting on the meter outlet to provide tight shutoff with smooth and easy operation regardless of system line pressure. Valves may be manually operated 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. Valves are indexable in 90° increments for up, down, or side facing outlet.

Differential Valve for LPG and Anhydrous Ammonia



Advantages:

The differential valve mounted on the meter outlet and connected at the valve bonnet to the vapor eliminator on the meter with function of to stop liquid flow whenever vapor is present in the system. The valve maintains sufficient pressure to ensure that high-vapor pressure products such as LPG or anhydrous ammonia (NH_3) always remain in the liquid state. The valve is spring loaded and designed to fail closed.

V-50-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
V-50-LPG	1.5"& 2"	M-40, M-50, M-50H	760	Aluminum	350PSI

Solenoid Valve

Solenoid Plug Valve & Solenoid Air Check Valve

Size: 1.5", 2", 3", 4" & 6"

Power:220VC/50Hz or 24VDC



Stainless Steel Solenoid Plug Valve



Cast Iron Solenoid Air Check Valve

Solenoid air check valve



Size:2 ",3 ",4 ",and 6 "

Power:220V 50HZ or 24V

M-50-KX-1 preset pd flow meter with preset mechanical register, preset valve, air eliminator and strainer



M series with pulser



**M series pd flow meter with electronic register, strainer, air eliminator and solenoid valve
Model M-50-KPX-1**



Model M-80-KPX-1



Characteristics:

- Excellent stepless adjusting mechanism allows a micro adjustment on 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.

PD meter for LPG-----

1. Model No.: M-50-CX-1 LPG meter with mechanical register, differential valve, air eliminator and strainer
- 2.



FMC Series PD Rotary Vane Flow Meter

Advantage:

FMC series PD rotary vane meters are single case, angle-type, rotary vane, positive displacement meters. Superior accuracy and a wide range of products from gasoline to kerosene to fuel oils can be metered.

Compact,versatile design can be readily fit into nearly all installations.

Low pressure drop meter results in low meter slippage and thus superior meter accuracy.

Long service life,low friction ball bearings, fixed cam-type timing,and rugged construction give sustained accuracy and long time operation.

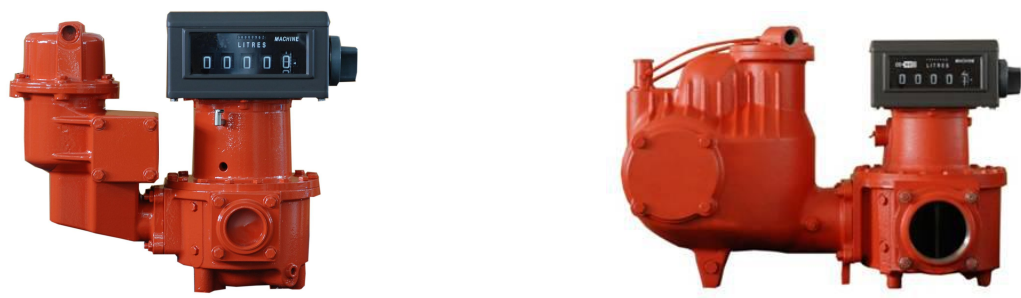
Application includes:blending, batching,dispensing,inventory control, and custody transfer of oils, solvents,chemicals,paints,fats and fertilizers.

FMC-50 Meter with Printer



FMC-50 with register, strainer, air eliminator and printer

FMC-100 Meter with Register, Strainer & Air Eliminator



FMC-50 Meter with Register, Strainer & Air Eliminator

FMC-100 Meter with Register, Strainer & Air Eliminator



FMC-50 Preset Meter with Register,
Preset Register, Preset Valve,
Strainer, Air Eliminator & Printer

FMC-80 Meter with register, strainer, air eliminator and printer

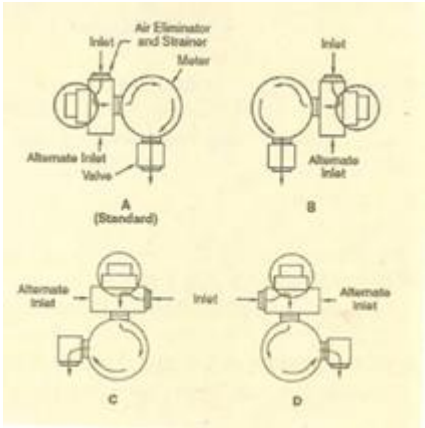
Technical Specification:			
Model	FMC-50	FMC-80	FMC-100

Size	50mm/2"	80mm/3"	100mm/4"
Flow Range(L/min)	38-380	75-750	150-1500
Max.Working Pressure	150PSI		
Accuracy	±0.2%		
Repeatability	0.07%		

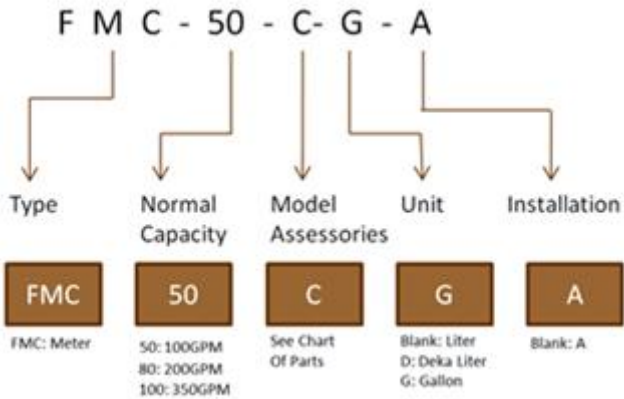
Package:			
Model	FMC-50		FMC-80
Packaging	1pc/wooden case		
Net Weight	42kgs		63kgs
Gross Weight	57kgs		70kgs
Size	59×34×57cm		59×34×57cm



Inlet & Outlet Installation



Model No. Description



SM Series PD Rotary Vane Flow Meter



Characteristics:

- Stepless adjusting mechanism allow a micro adjustment of the meter
- Special designed Manifold in line separates from measuring chamber to avoid stress coming from the installation
- Low head loss
- Simple construction, rotor - blades for easy and low maintenance cost
- Wearing compensation to maintain a good accuracy all along the years
- Meter also for viscous products up to 800 Cst

Material

Manifold: Steel or Aluminium

Body: Ni-resist Cast Iron

Covers: Steel

Rotor: Aluminium

Blades: Carbon

Bearings: Stainless Steel

Seals/ gaskets: Viton, Buna"N"

SM-80-1 Meter with Mechanical Register

Application:

Oil company: refineries, Oil depots, gas station and Tank trucks distribution

Airports: aircraft refuellers

Army: depot reception or loading trucks

Administration (railway companies, public transport)

Ports: Boats/barges