

Расходометры

Каталог

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72 Астана +7(7172)727-132 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-15-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Казань (843)206-01-48

Кемерово (3842)65-04-62 Киров (8332)68-02-04 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Липецк (4742)52-20-81 Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41

Калининград (4012)72-03-81

Калуга (4842)92-23-67

Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Ярославль (4852)69-52-93

Единый адрес для всех регионов: crw@nt-rt.ru || www.cowell.nt-rt.ru





M-50-1 Meter with Register Strainer & Air Eliminator

Characteristics

- Excellent stepless adjusting mechanism allows a micro adjustment of the
- 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	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"	50mr	m/2"	80n	nm / 3 "	100m	m/4"	150m	m/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	0.309L 0.681L 1.839L 5.102L				9.507L			
Max. Pressure	10Bar/150PSI 25Bar/350PSI						/350PSI		
Accuracy	$\pm 0.2\%$								
Repeatability	≤0.05%								
Standard Measurement	Liter / US Gallon/IMP Gallon								
Viscosity					30SSU~1,500,00	0SSU			

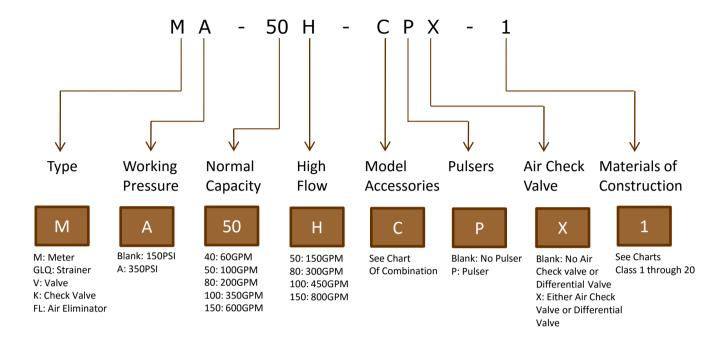
Note:4"&6" flange available for M-150/6" Meter.

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	

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M Series 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 sweetners, 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.





M-80-1 Meter



M-80-1 Meter with Counter



M-80-1 Meter with Counter & Strainer



M-80-1 Meter with Counter, Strainer & Air Eliminator



M-150-A-1 Meter with Counter



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





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



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



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





with Two Meters, Pulsers and Differential Valve, One Strainer & Air Eliminator



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



FL Air Eliminator

Aluminum, cast iron, stainless steel available.







FL Air Eliminator with Plate

GLQ series Strainer

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



GLQ-50 Strainer



GLQ-150 Strainer & 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



LPGX 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 $^{\circ}$ C $^{\sim}$ +250 $^{\circ}$ C

Press Loss:≤0.03Mpa

Note: bigger size can be manufactured as per requirement

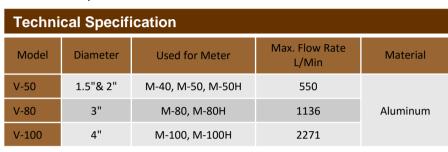


LPGX Series Filter & Air Eliminator



V & VS series Piston Valves

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.



K Series Air Activated Differential 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	Alullillulli		

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		



V-80 Piston Valve



K-80 Check Valve



V-50-LPG Differential Valve

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



FMC Series PD Rotary Vane Flow Meter

FMC-50 Meter with Register, Strainer & Air Eliminator

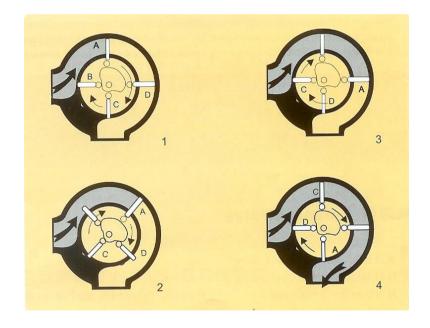
Characteristics

- FMC series PD rotary vane meters are single case, angle-type, rotary vane, positive displacement meters.
- Superior accuracy and metering for a wide range of products, such as, gasoline, kerosene, fuel oils etc..
- 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.

Construction



FMC-100 Meter with Register, Strainer & Air Eliminator





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

Application

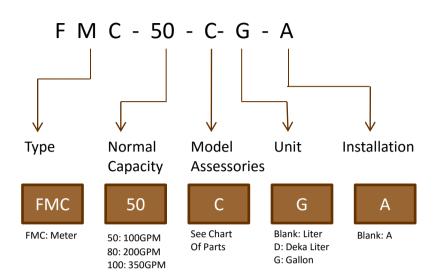
Application includes: blending, batching, dispensing, inventory control and custody transfer of oils, solvents, chemicals, paints, fats and fertilizers.

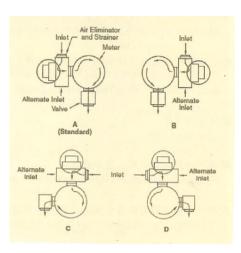


FMC Series PD Rotary Vane Flow Meter

Model No. Description

Inlet & Outlet Installation





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%					

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



2" Air Eliminator & Strainer



4" Air Eliminator & Strainer





Characteristics

- Stepless adjusting mechanism allows 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.



SM-50-1 Meter with Mechanical Register A Type

Material

Manifold: Steel or Aluminium Body: Ni-resist Cast Iron

Covers: Steel Rotor: Aluminium Baldes: Carbon

Bearings: Stainless Steel Seals/ gaskets: Viton, Buna"N"



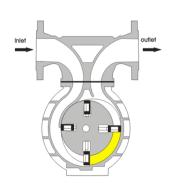
SM-50-1 Meter with Mechanical Register B Type

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
- Private oil transport companies

SM-50-P-1 Meter with Pulser

Construction

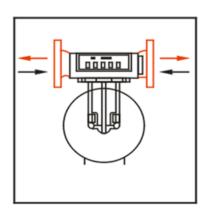


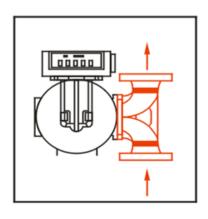


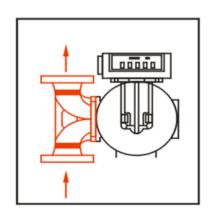
Technical Specification						
Model	SM-50-I	SM-80-1				
Size	50mm/2"	80mm/3"				
Volume per Revolution	0.4L/0.08US Gallon	2.27L/0.5US Gallon				
Max. Flow Rate	24M ³ /h or 400L/Min or 105US Gallon	80M ³ /h or 1333L/Min or 360US Gallon				
Min. Flow Rate	2.4M ³ /h or 40L/Min or 10.5US Gallon	8M ³ /h or 133.3L/Min or 36US Gallon				
Accuracy	±0.2%	±0.2%				
Repeatability	≤0.05%	≤0.05%				
Max. Operation Pressuer	8Bar/120PSI/8.3Kg/cm ³	10Bar/150PSI/10.5Kg/cm ³				
Working Temp.	-40°C~+60°C -40°C~+60°C					
Max. Viscosity	800Cps/3850SSU					

Packaging Data						
Model	SM-50-1	SM-80-1				
Packaging	1pc/Carton					
Net Weight	20kgs	56kgs				
Gross Weight	22kgs	58kgs				
Size	29×23.5×40cm	36×37×40cm				

Flexible Installation









JSQ Series Register

JSQ Series Register

Description

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 distributiong 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.

Characteristics

- New crisp, high visibility digital display for optimum readability in all ambient lighting.
- Latest technology, modern materials give maximum dependability at speed to 250 rpm of right wheel ord.
- Built-in precision totalizer accumulates up to 99,999,999 units, delivery display 5 digital.
- Acetal resin components for smooth operation and extra long life.
- Fits all popular flow meters

Gear Plate

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 unit of measure is simple through conversions of accessible gears.

JSQ-3 Mechanical Preset Counter

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

JSQ-4 Mechanical Counter with Ticket Printer

Printer generates an imprinted record of the transaction.





JSQ-2 Mechanical Register



Gear Plate



JSQ-3 Mechanical Preset Counter



JSQ-4 Mechanical Counter With Ticket Printer



JSQ-2/E Electronic Register

Description

JSQ-2/E Electronic Register System adopts the modern highperformance 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.

JSQ-2/E 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.



JSQ-2/E 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.



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

CO WE PS-100 Encoder 光电传感器

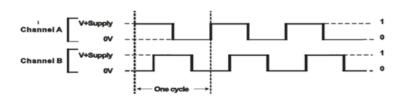
PS-100 Encoder

PS-100 Encoder

Specification

Voltage (V+): $+8\sim24$ VDC Current: 26mA typical 100 pulses per encoder revolution Operating temperature range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ($-40^{\circ}\text{F} \sim 185^{\circ}\text{F}$)

Output Wave





OGM Series Aluminum Oval Gear Meter

MACHINE OM SUMPTIONS TOTO TOT TOTO TOT T

OGM-A-25 Mechanical Oval Gear Meter

CONTROL TO SERVICE OF THE SERVICE OF

OGM-E-25 Electronic Oval Gear Meter



OGM-A-40 Mechanical Oval Gear Meter



OGM-A-25-P Oval Gear Meter with Pulser

Description

OGM series Aluminum Oval Gear Meter can handle a wide range of viscous fluids with exceptional levels of repeatability and durability. It has mechanical display and electronic display for option.

Advantage

Compact size, easy maintenance. Easy to read and operate mechanical display Horizontal and vertical flexibility of installation options Low pressure drop.

Application

Widely used in Petroleum, Chemical, Medicine, Tranportation, food industry etc..

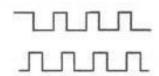
Construction



Technical Specification						
Туре	OGM-A(E)-25	OGM-A(E)-40	OGM-A(E)-50			
Size	1"	1.5"	2"			
Min.Flow Rate	20L/Min	25L/min	30L/min			
Max.Flow Rate	200L/Min	250L/min	300L/min			
Accuracy	±0.5%	±0.5%	±0.5%			
Repeatability	≤0.03%	≤0.03%	≤0.03%			
Max. Viscosity	1000CPS	1000CPS	1000CPS			
Max. Operationg Pressure	3.4Mpa	1.8MPa	1.8MPa			

Technical Specification						
Model	Volume Per Revolution	Pulser	Voltage	Currency		
OGM-A-25-P	0.048L/R					
OGM-A-40-P	0.123L/R	4 Pulses/R	DC5-36V	15mA		
OGM-A-50-P	0.280L/R					

Wave





OGM Series Cast Iron Oval Gear Meter

Description

OGM Series light oval gear flow meter, with innovative design and rational structure can be widely used in petroleum, chemical, pharmaceutical and public health sectors etc..Cast Iron, Cast Steel, Stainless Steel material available.



OGM-50 Oval Gear Meter

Characteristics

- High accuracy, wide range of the flow, excellent repeatability.
- Spiral rotor rotating evenly, small vibration and longevity.
- Suitable for high viscosity of the liquid measurement
- Simple structure, small size and light weight
- Easy to install
- Reset to "0"



OGM-50 Oval Gear Meter with Pulser

Technical Specification								
Mode	OGM-I-15	OGM-I-20	OGM-I-25	OGM-I-40	OGM-I-50	OGM-I-80	OGM-I-100	OGM-I-150
DN (mm)	15	20	25	40	50	80	100	150
Min. Flow Rate m ³ /h	0.3	0.3	0.6	1.6	5	6	10	38
Max. Flow Rate m ³ /h	1.6	3	6	16	25	50	80	190
Accuracy %	+-0.3~+-0.5							
Working Temperature °C		-10~80						
Pressure Mpa		1.0-6.3						
Liquid Viscosity MPa.s	2~75							
Min. Scale Value L	0.1 1 10							
Register Amount m ³	999.99 9999.9				99999			

Note: 10mm, also can be made as per requirement with flow rate of 0.08-0.4m3/h

Packaging Data							
Mode	OGM-15	OGM-20	OGM-25	OGM-40	OGM-50	OGM-80	OGM-100
Packaging	1pc/Wooden Case						
Net Weight	7.5kgs 8.5kgs 15.6kgs 18.5kgs 30kgs 44.5kgs 72kgs						72kgs
Gross Weight	9.5kgs 10.5kgs 18.1kgs 21.5kgs 33kgs 48kgs 77kgs						77kgs
Size cm	18×12×23	20×12×24	24.5×18×25	25×18.5×28	34×23×33.5	56×26.6×34	42×31×40.5



FM Series Flow Meter

FM-120L Flow Meter

FM-120L Flow Meter is to measure the exact quantity of the dispensed fuel. They are designed for noncommercial use Only. These flow meters are reliable, inexpensive, easy to install and simple to calibrate on the workplace. Aluminum metering chamber, 1" thread connection. Mechanical readout device with rotating wheels. 4 digitals subtotals can be set to zero, 8 digital total readouts can not.

Technical Specification				
Model	FM-120L	FM-30		
Measurement	Liter/ Gallon	Liter/ Gallon		
Max.Pressure	3 Bar	3 Bar		
Flow Rate:	20L-120L/min	20L-120L/min		
Inlet&Outlet	BSPF/NPT 1"	BSPF/NPT 1"		
Precision	±1%	±1%		

FM-40G Flow Meter

FM-40G Flow Meter is designed for metering diesel fuel, Gasoline, kerosene, mineral spirits, solvent and heptane with the advantage of large, easy to read numbers, quick Reset knob, flexible flow ports, which can be positioned vertically or horizontally. Easy reset register indicates product use up to 999.9 gallons. The master totalizer registers up to 99999999 gallons.

Technical Specification				
Model	FM-40G			
Measurement	Liter/Gallon			
Max. Pressure	3 Bar.			
Flow Rate	40PGM			
Inlet&Outlet	BSPF/NPT 1" or 1 ½"			
Precision	±1%			

Packaging Data					
Model	FM-120L	FM-40G			
Packaging	6 pcs/carton	2 pcs/carton			
Net Weight	12Kgs	6Kgs			
Gross Weight	13Kgs	7Kgs			
Size	53×25×36cm	49×28×22cm			



FM-120L



FM-30



FM-40G

Mini Flow Meter



JYM/*1 Oval Gear Meter

JYM/*-1 series Oval Gear Meter for controlling and measuring low, medium and high viscosity, such as fuel, lubrication oil with advantage of high precision and low pressure loss, compact, light weight design and easy installation.

JYM/L-1 Oval Gear Meter with LCD display, 5-digital sub-total, with floating point from 0.001 to 999.99; 8-digital non-resettable totalizer.

JYM/P-1 Oval Gear Meter with pulse output, reed switch built-in, signal channel output.



JYM/L-1

Technical Specification				
Inlet & Outlet	BSPF1/2"			
Accuracy (after calibration)	±0.5%			
Repeatability	0.2%			
Max. Operationg Pressure	70 Bar			
Flow Rate	1-30L/Min			
Discharge Rate/Revolution	25ml/R			
Battery Power	2×1.5V			

Output Pulser

2 pulses per revolution



JYM/P-1

LS Series Diesel Flowmeter

Description

Diesel Flowmeter is positive displacement flowmeter, which can be installed in train, tractor, generators and shipping etc. to measure various types of power plant fuel consumption, and a variety of liquid metering and pipe measuring etc.. With in-built copper filter or equip with filter outside. It also has pulse output.

Diameter: 6~25mm Accuracy: 0.2%~1%

Application: Gaesoline, Diesel, Kerosene & other liquids

etc..





LS-8C



Mini Flow Meter

GPI Turbine Digital Flow Meter

Turbine measuring system
Simple, reliable, small & economic
Easy to install either in line or at the end of delivery hose
5-digit readout, resettable total available

Technical Specification						
Туре	GPI-1	GPI-2	GPI-3			
Size	3/4"	1"	1.5"			
Flow Rate	70L/Min	120L/min	160L/min			
Accuracy	±1%	±1%	±1%			



GPI-1



Turbine Meter with nozzle



FMC Gravity Unloading Meter Unit

FMC Gravity Unloading Meter Unit is intrinsic-safety measurement unit for gasoline, diesel, kerosene, with mechanical printer register, 5 digital subtotal display and printing, installed with quick hose adaptor for tank truck unloading, with advantage of ideal gravity unloading meter unit, low pressure drop, high accuracy, wide measurement range, low noise, etc.

Technical Specification						
Model	FMC-50W	FMC-80W	FMC-100W			
Flow Meter	FMC-50	FMC-80	FMC-100			
Quick Hose Adaptor	50mm/2"	80mm/3"	100mm/4"			
Mechanical Register & Printer	JSQ-4					
Accuracy	±0.2%					



Standard Metal Prover

Standard Metal Prover: carbon steel & stainless steel materials available.

Two types:

I. Vertical: 10, 20L

II. Flow outlet with legs: 5, 10, 20, 50, 100, 200, 500, 1000L











По вопросам продаж и поддержки обращайтесь:

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