

流量计系列

Flow Meter Series

CE APPROVAL



WDTCS 系列容积式工业流量计 Positive Displacement Flow Meter



WDTCS-150



WDTCS-150-1



WDTCS-50-P



WDTCS-50-K



WDTCS-50-N



WDTCS-50-NSS



WDTCS-EFC-80



WDTCS-EFC-50SS



WD-M-LPG-50

WDTCS 系列容积式工业流量计

WDTCS series Positive Displacement Flow Meter



WDTCS-80

微调装置（磨损补偿装置），可对流量计进行正负校准；大量程范围内的高精度和高重复性；恒定流量时超高精度,低维护，低磨损，长寿命压力损失小，真正的重力流量计；计量精度不受温度、压力、粘稠度变化影响；铝、铸铁、不锈钢可供选择

The fine-tuning device (wear compensation device) can perform positive and negative calibration on the flowmeter. It offers high precision and high repeatability over a wide measuring range, ultra - high precision at a constant flow rate, along with low maintenance, low wear, and a long service life. It has a small pressure loss and is a genuine gravity flowmeter. Its measurement accuracy is not affected by changes in temperature, pressure, or viscosity. It is available in aluminum, cast iron, and stainless steel.

主要技术参数 Technical Specification

型号 Model	WDTCS-40	WDTCS-50	WDTCS-80	WDTCS-100	WDTCS-150
尺寸 Size	40mm/1.5"	50mm/2"	80mm/3"	100mm/4"	100mm/4"and for option 150mm/6"
流量范围 Flow range	25-250L/min	55-550L/min	115-1150L/min	170-1700L/min	300-3000L/min
每转排量 Volume per revolution	0.309L	0.681L	1.839L	5.102L	14.87L
最大工作压力 Max.pressure	10Bar				
精度 Accuracy	$\pm 0.2\%$				
重复度 Repeatability	$\leq 0.07\%$				
计量单位 Standard measurement	升/美加仑/英加仑 Liter/US Gallon/IMP Gallon				
包装尺寸 Dimension	51×46×49cm	51×46×49cm	61×54×57cm	76×64×72cm	80×65×90cm
净重 Net weight	23kg	26kg	40kg	70kg	130kg
毛重 Gross weight	25kg	28kg	47kg	93kg	180kg
包装 Package	1台/纸箱 1pc/Strong Yellow Paper Carton				1台/木箱 1pc/Wooden Case
材质 Material	铝合金AL-Alloy、不锈钢316L Stainless steel316L 可选 (can choose)				

流量计系列 Flow Meter Series



质量流量计 Mass Flow Meter

主要技术参数 Technical Specification

型号 Model	WDCZLPG		
精确度等级 Mass accuracy grade	0.2 0.3 0.5 可选择choose		
温度测量精度 Remp.accuracy	±1° C		
重复性 Repeatability	±0.05%		
最大工作压力Mpa	4MPa		
口径 Nomianal diameter	50mm		
连接端口 End connection	法兰.（可定制）Flange（customizable）M32×1.5螺母（可定制）M32×1.5Nut（customized）		
流体温度 Fluid temperature	-200~200° C		
测量管材料 Wetted parts	不锈钢Stainless steel 316L		
相对湿度 RH	=95%， non condensed		
压损 Loss of pressure	=0.2MPa		
防爆等级 Ex-mark	II 2G Ex db [ib] IIC T6... T1 Gb(Transmitter) Ex ib IIC T6...T1 Gb(Sensor)		
工作电压 Operating voltage	AC85~265V， DC24V		
输出信号Output signal	RS485； Modbus RTU； 0~10KHz 瞬间流量脉冲信号 Sight flow pulse signal		

电子式流量计 Electronic flow meter

主要技术参数 Technical Specification

型号 Model	WDTCS-E		WDTCS-LPG-E
适应温度 Adapt temperature	-40℃ ~+55℃		
相对湿度 Relative humidity	≤95%		
流量范围 Flow range	55-550L/min	115-1150L/min	170-1700L/min
电压 Voltage	AC220/380 12/24V		
频率 Frequency	(50±1)HZ √ (60±1)		
精度 Accuracy	±0.2%		

卸油便携流量计 Portable Turbine Meter



主要技术参数 Technical Specification

适用介质 Applicable Medium	汽油、柴油、煤油、乙醇汽油等各种油品 Gasoline, Diesel, Kerosene, Ethanol Gasoline, and other Oil Products
LCD屏幕 LCD screen	英文界面，7位数字显示 English Version, 7 Digit Display
管径尺寸 Pipe Diameter	3寸 (DN80)
精度等级 Accuracy	±0.1%
重复性精度 Repeatability Accuracy	±0.02%
产品重量 Weight	6kg
外壳材质 Material	铝 Aluminum
流速范围 Flow Rate	8-80m³/h (130-1300L/min)
显示最小刻度 Min.Scale	1L
防爆等级 Ex Grade	Ex ia II BT4 Ga
防护等级 Protection Grage	IP67
温度范围 Temp.	-25° C~+55° C
最大压力 Max.Pressure	0.5MPA
油品粘度范围 Oil Viscosity Range	13mm³/s
电源 Power Supply	2节3.6V锂电池（电池寿命约2年） 2 Lithium Batteries 3.6V（2 years life service）

产品应用 Applications

电磁流量计可用来测量封闭管道中导电液体的体积流量。广泛应用于石油、化工、钢铁冶金、给水排水、水利灌溉、水处理、环保污水、测控、造纸、医药、食品等工农业生产工艺过程中的流量测量和控制。

Electromagnetic flowmeters can be used to measure the volume flow of conductive fluids in closed pipes. Widely used in Flow measurement and control in industrial and agricultural production processes such as petroleum, chemical industry, iron and steel metallurgy, water supply and drainage, water conservancy irrigation, water treatment, environmental protection sewage, measurement and control, papermaking, medicine, food, etc.

使用环境条件 Environmental conditions

环境温度:传感器-25℃~+60℃

转换器-10℃~+60℃

相对湿度:5%~95%

流体电导率:大于5 μS/cm(自来水、原水的电导率约100~5005 μS/cm)

电磁流量计有7种不同的电极和7种不同材料的衬里可供选择。

Ambient temperature: sensor -25℃~+60℃

Converter -10℃~+60℃

Relative humidity: 5%~95%

Fluid conductivity: greater than 5 μS/cm

(The conductivity of tap water and raw water is about 100~5005 μS/cm)

Magnetic flowmeters are available with 7 different electrodes and 7 different material linings.

常规型 电磁流量计 Conventional Electromagnetic Flowmeter

常规型号电磁流量计——氯丁橡胶衬里、316L电极,一体型法兰连接、电源220V或24V, 现场显示带4-20mA输出。一般适用于测量污水、中水等微弱腐蚀性介质。

Conventional electromagnetic flowmeter - neoprene lining, 316L electrode, integral flange connection, power supply 220V or 24V, on-site display with 4-20mA output. Generally suitable for measuring weak corrosive media such as sewage and reclaimed water.

耐腐蚀电磁流量计 Corrosion-resistant electromagnetic flowmeter

耐腐蚀电磁流量计——PTFE(聚四氟乙烯)衬里、电极(316L、钽、钛、哈氏合金、铂合金等)可选,一体型法兰连接、电源220V和24V可选,现场显示带4-20mA输出。一般适用于测量酸碱盐等腐蚀性介质,也可测量自来水、饮用水、酒、果汁等卫生条件要求较高的介质。

Corrosion-resistant electromagnetic flowmeter - PTFE (polytetrafluoroethylene) lining, electrodes (316L, tan, titanium, Hastelloy, Platinum alloy, etc.) optional, integral flange connection, power supply 220V and 24V optional, on-site Display with 4-20mA output. It is generally suitable for measuring corrosive media such as acid, alkali and salt, and it can also measure media with high hygiene requirements such as tap water, drinking water, wine, and fruit juice.

分体型电磁流量计 Separate type electromagnetic flowmeter

分体型电磁流量计——氯丁橡胶衬里(PTFE、PFA、F46、聚氨酯、硅氟橡胶等可选), 电极(316L、钽、钛、哈氏合金、铂合金等)可选,电源220V和24V可选。转换器跟传感器使用专用信号电缆连接,转换器可壁挂于墙,便于在远端(办公室)内实时查看现场情况。可定制IP68防护等级,适用于潜水电工况条件。

Split type electromagnetic flowmeter - neoprene lining (PTFE, PFA, F46, polyurethane, fluorosilicone rubber, etc. optional), electrode (316L, tan, titanium, Hastelloy, platinum alloy, etc.) optional, power supply 220V and 24V are optional. The converter is connected to the sensor with a dedicated signal cable, and the converter can be hung on the wall to facilitate real-time viewing of on-site conditions in the remote. IP68 protection level can be customized, suitable for diving conditions.



常规型电磁流量计

Conventional Electromagnetic Flowmeter



耐腐蚀电磁流量计

Corrosion-resistant electromagnetic flowmeter



分体型电磁流量计

Separate type electromagnetic flowmeter

电磁流量计 Partially filled electromagnetig flow meter 汇洋能源

管段式非满管电磁流量计 Pipe section Partially filled pipe flow meter

技术参数:橡胶衬里、316L 电极、分体型、220v或者24v供电、4-20mA输出、485通讯、法兰连接、法兰及本体材质碳钢、防护等级IP65、分体信号线10米。

Technical parameters: rubber lining, 316L electrode, split type, 220v or 24v power supply, 4-20mA output, 485 communication, flange connection, flange and body material carbon steel, protection grade IP65, split signal line 10 meters



主要技术参数 Technical Specification

精度 Accuracy	2.5%R
直径 Diameter	DN200-DN2000
内衬材料 Lining Material	F46, 聚氯丁橡胶 Polychloroprene Rubber
电极 Electrodes	Stainless steel 316L, Hastelloy B, Hastelloy C, Ti, Tantalum, Platinum Stainless steel coated with tungsten carbide
压力 Pressure	1.6 Mpa
耐温 Temp. Resist.	-25-80
防护等级 Protection Level	IP65, IP67, IP68
输出信号 Output signal	频率, 脉冲, Frequency, Pulse, 4-20mA, RS485
电源 Power supply	85-250V AC, 20V-36V DC



产品特点 Product Features

采用新型传感器，始动流量低、压力损失小、抗振与抗脉动流性能好，不易腐蚀、可靠性好、使用寿命长。

采用新型微处理器与高性能的集成芯片，运算精度高，整机功能强大，性能优越。

采用先进的微功耗高新技术，整机功耗低。既能用内电池长期供电运行，又可由外电源供电运行

按流量频率信号，可将仪表系数分八段自动进行线性修正，可根据用户需要提高仪表的计算精度。

采用EEPROM数据存贮技术，具备历史数据的存贮与查询功能，三种历史数据记录方式可供用户选择。

流量计表头可180°旋转，安装使用简单方便。

高精度度，一般可达 $\pm 1.5\%R$ 、 $\pm 1.0\%R$ 。

重复性好，短期重复性可达0.05%~0.2%，正是由于具有良好的重复性，在贸易结算中是优先选用的流量计。

可检测被测气体的温度、压力和流量，能进行流量自动跟踪补偿，并显示标准状态下($P_n=101.325KPa$, $T_n=293.15K$)的气体流量;可实时查询温度、压力、时间、日期等数据。

1. It adopts a new - type sensor, featuring low starting flow, small pressure loss, excellent performance in resisting vibration and pulsating flow, corrosion - resistance, high reliability, and a long service life.
2. With a new - type microprocessor and high - performance integrated chips, it has high - precision arithmetic ability. The whole device has powerful functions and superior performance.
3. Using advanced low - power consumption high - tech, the whole device has low power consumption. It can be powered by an internal battery for long - term operation or by an external power supply.
4. According to the flow frequency signal, the meter coefficient can be automatically linearly corrected in eight segments, which can improve the calculation accuracy of the meter according to the user's needs.
5. Adopting EEPROM data storage technology, it has the functions of storing and querying historical data. Users can choose from three historical data recording methods.
6. The meter head of the flowmeter can be rotated 180° , which makes installation and operation simple and convenient.
7. It has high accuracy, generally reaching $\pm 1.5\%R$ or $\pm 1.0\%R$.
8. It has good repeatability, with short - term repeatability ranging from 0.05% to 0.2%. Due to its excellent repeatability, it is the preferred flowmeter for trade settlement.
9. It can detect the temperature, pressure, and flow of the measured gas, automatically track and compensate the flow, and display the gas flow under standard conditions ($P_n = 101.325 KPa$, $T_n = 293.15 K$). Data such as temperature, pressure, time, and date can be queried in real - time.

主要技术参数 Technical Specification

执行标准Execution standard	封闭式管道中气体流量的测量—气体涡轮流量计(CB/T8940-2003) Measurement of gas flow in closed pipelines -gas turbine flowmeter(GB/T8940-2003)
仪表口径(mm)及连接方式Instrument diameter(mm)and connection method	25,40,50,65,80,100,125,150,200,250,300采用法兰连接 Adopt flange connection 25,40,50可采用螺纹连接 Can be screwed
精度等级Accuracy grade	$\pm 1.5\%R(\pm 1\%R \text{需特制})^* \pm 1.5\%R(+1\%R \text{ needs to be specially made})^*$
量程比Turndown ratio	1:10:1.20:1:30
仪表材质Instrument material	表体:304不锈钢或铸铝 叶轮:防腐ABS或优质铝合金 转换器:铸铝 Body: 304 stainless steel or cast aluminum; Impeller: Anti-corrosion ABS or high quality aluminum alloy; Converter: cast aluminum
使用条件Conditions of use	介质温度Medium temperature: $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 大气压力Atmospheric pressure: 86Kpa~106Kpa 相对湿度Relative humidity: 5%~90% 环境温度Ambient temperature: $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$
工作电源Working power supply	A.外电源: +24VDC $\pm 15\%$, 纹波 $\leq \pm 5\%$, 适用于4-20mA输出、脉冲输出、RS485等 B.内电源: 1组3.0V10AH锂电池, 电池电压在2.0V~3.0V时均可正常工作。当电压低于2.0V时出现欠压指示。 A. External power supply: +24VDC $\pm 15\%$, ripple $\leq \pm 5\%$, suitable for 4-20mA output, pulse output, RS485, etc. B. Internal power supply: 1 set of 3.0V10AH lithium battery, the battery voltage can work normally when the voltage is 2.0V~3.0V. Undervoltage indication occurs when the voltage is lower than 2.0.
整机功耗 Power consumption of the whole machine	A.外电源: $\leq 1\text{W}$ B.内电源: 平均功耗 $\leq 1\text{W}$, 可连续使用三年以上 A external power supply: $\leq 1\text{W}$ B. Internal power supply: the average power consumption is $\leq 1\text{W}$, which can be used continuously for more than three years.
信号输出功能signal output function	脉冲信号①、4-20mA电流信号②、控制信号③ Pulse signal①, 4-20mA current signal②, control signal③
通讯输出功能 Communication output function	RS485通讯④ RS485 communication④
实时记录功能⑤ Real-time recording function⑤	起停记录、日记录、定时间间隔记录 Start and stop recording, daily recording, fixed time interval recording
信号线接口signal cable interface	内螺纹M20x1.5或其他 Internal thread M20x1.5 or other
防爆等级Explosion-proof grade	Exd II BT6 or Exia II CT4
防护等级Protection class	IP65

测量范围及工作压力 Measuring Range And Working Pressure

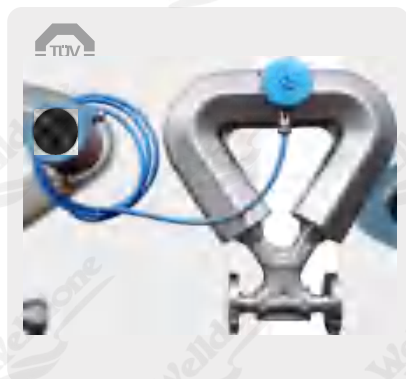
工称通径(mm)	型号	标准量程(m ³ /h)		扩展量程(m ³ /h)		常规耐压等级(Mpa)	特制高压等级(Mpa)	安装方式
DN25	LWGQ-25	S	2.5-25	W	4-40	1.6	2.5,4.0	法兰(螺旋)
DN40	LWGQ-40	S	5-50	W	6-60	1.6	2.5,4.0	法兰(螺旋)
DN50	LWGQ-50	S1	6-65	W1	5-70	1.6	2.5,4.0	法兰
		S2	10-100	W2	8-100			
DN65	LWGQ-65	S	15-200	W	10-200	1.6	2.5,4.0	法兰
DN80	LWGQ-80	S1	13-250	W	10-160	1.6	2.5,4.0	法兰
		S2	20-400					
DN100	LWGQ-100	S1	20-400	W	13-250	1.6	2.5	法兰
		S2	32-650					
DN125	LWGQ-125	S	25-700	W	20-800	1.6	2.5	法兰
DN150	LWGQ-150	S1	32-650	W	80-1600	1.6	2.5	法兰
		S2	50-1000					
DN200	LWGQ-200	S1	80-1600	W	50-1000	1.6	——	法兰
		S2	130-2500					
DN250	LWGQ-250	S1	130-2500	W	80-1600	1.6	——	法兰
		S2	200-4000					
DN300	LWGO-300	S	200-4000	W1	130-2500	1.6	——	法兰
				W2	320-6500			



WDCG-03

主要技术参数 Technical Specification

型号 Model	WDCG-03
精确度等级 Mass accuracy grade	0.15,0.2,0.3,0.5
重复性 Repeatability	0.075%,0.1%,0.15%,0.25%
温度测量精度 Remp.accuracy	±1° C (重复性±0.5° C)
密度精度值 Temp.accuracy	±0.001g/cm³ (仅液体)
最大质量流量 Density accuracy	360kg/h
标准耐压 Maximum mass flow	4MPa
公称直径 Standard withstand voltage	3mm
连接规格 Nominal diameter	DIN2635 PN40 DN15 法兰
介质温度 Connection specification	01 (-70° C~+160° C) ; 02 (-200° C~+60° C) ; 03 (-40° C~+300° C)
测量管材料 Medium temperature	AISI316L
零点稳定性 Wetted parts	0.01kg/h
压力损失(介质 水) Loss of pressure	≤0.08MPa
防护等级Level of protection	IP65/IP67
防爆标志 Ex-mark	 II 2G Ex db [ib] IIC T6... T1 Gb(Transmitter) Ex ib IIC T6...T1 Gb(Sensor)
工作电压 Operating voltage	(85~265) VAC/ (12~24) VDC
输出信号 The Output Signal	RS485; Modbus RTU; 0~10KHz 瞬间流量脉冲信号 Sight flow pulse signal
通讯信号Communication Signal	Modbus RTU RS-485; HART



WDCG-06



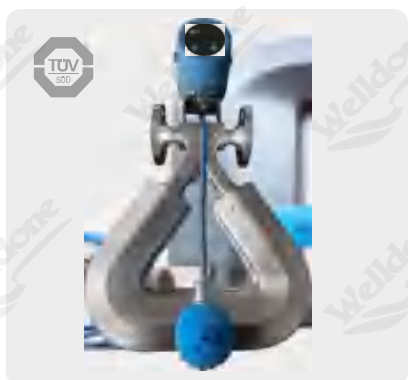
WDCG-15



WDCG-20



WDCG-25-1



WDCG-25



WDCG-100

主要技术参数 Technical Specification

型号Model	WDCG06	WDCG10	WDCG15	WDCG20	WDCG25	WDCG32	WDCG50	WDCG80	WDCG100
精确度等级 Mass accuracy grade	0.2 0.3 0.5 可选择choose								
最大流速 Max.flow rate	1200kg/h	1800kg/h	3000kg/h	4200kg/h	12000kg/h	15000kg/h	60000kg/h	180000kg/h	240000kg/h
温度测量精度 Remp.accuracy	± 1°C								
重复性 Repeatability	± 0.05%								
最大工作压力 Mpa	4MPa		25~30MPa		4MPa		4MPa	4MPa	4MPa
口径Nomianal diameter	6mm	10mm	15mm	20mm	25mm	32mm	50mm	80mm	100mm
连接端口 End connection	法兰。(可定制) Flange (customizable) M32 × 1.5螺母 (可定制) M32 × 1.5Nut (customized)								
流体温度 Fluid temperature	-200~200 ° C								
测量管材料 Wetted parts	不锈钢Stainless steel 316L								
相对湿度 RH	=95%, non condensed								
压损 Loss of pressure	=0.2MPa								
防爆等级 Ex-mark	II 2G Ex db [ib] IIC T6... T1 Gb(Transmitter) Ex ib IIC T6...T1 Gb(Sensor)								
输出信号 Output signal	AC85~265V, DC24V								
工作电压 Operating voltage	RS485; Modbus RTU; 0~10KHz 瞬间流量脉冲信号 Sight flow pulse signal								

质量流量计 Mass Flow Meter(ATEX Approval)

本质量流量计是根据科氏力原理来测量流体质量的流量计。

主要由流量传感器和流量变送器组成。由于科氏质量流量计能够直接测量流体的质量流量（这对能源的计量和化学反应等生产过程检测控制具有重要意义）；测量准确度0.2%；应用范围广（除正常的流体测量外还可测量一般流体测量仪表较难测量的工业介质，如非牛顿流体、各种浆液、悬浮液等）；安装要求不高（一般对上下游直管段没有什么要求）；运行可靠、维修率低等特点使其应用越来越广泛。

Mass flow meter is a device that measures the mass of fluid traveling through a tube, in accordance with Coriolis Principle. Coriolis Mass flow meter can directly measure the fluid mass flow, and has great influence on the processing and measuring methods in the energy and chemical industries. Compared with the traditional volumetric flow measurement, it has the following advantages:

- 1.Measurement accuracy is higher than 0.2%
- 2.Wide application: Besides the common fluid, Mass flow meter can measure fluids such as non-Newtonian fluid, all kinds of slurry, suspensions, etc.
- 3.Convenient installation: No specific requirement of choosing upstream or downstream pipe.
- 4.High reliability

产品特点 Other Features

无可动部件，维护量低

Requires low maintenance, because of no movable parts.

同时提供多种参数测量，如质量流量、温度、密度等

Shows many parameter simultaneously, such as mass flow, temperature, density, etc.

不受流态影响，节省安装设计及费用

Not affected by the fluid, saving the design & installation cost.

适用范围宽，同一台传感器，可用于多种介质

One pulser can be used for various fluids.

流量传感器 Flow Sensor

流量传感器是一种基于科氏力效应的相位敏感性谐振式传感器。本传感器由振动管、信号检测器、震荡驱动器、支撑结构和壳体所组成。

Flow sensor is a phase-sensitive resonant sensor based on Coriolis effect, composed of vibration tube, signal detector, concussion driver, structural support, housing.

标定系统按照国内最高规格的标定系统定制设计，通过浙江省计量科学研究院审核，并取得《静态质量法水流量标准装置》检定证书。重点称重仪表全部采用德国原装进口的最高精度电子称（0.02%），保证检定精度的准确性。以多条管道线路，满足宽流量范围。全程软件操控，实时报表输出，减少人工干过程，提高工作效率。

The calibration system is designed according to the highest standards of calibration system, which is audited by the Zhejiang Provincial Institute of metrology, and has obtained the "static quality method". Verification certificate of water flow standard device. The key of weighing instrument used in Germany. The highest precision electronic said (0.02%), Ensure the accuracy of the verification accuracy. With a number of pipeline lines to meet the wide range of traffic. Full software control, real-time report output, reduce the artificial dry process, improve work efficiency.

Transmitter

变送器是以微处理为核心的电子系统。它用来向传感器提供驱动力，并将传感器的信号转化为质量流量信号及其他参数信号，同时具有根据温度参数对质量流量测量进行补偿功能。变送器由开关电源、安全栅板、核心处理器板、显示模块等组合而成，安装在防爆盒内。开关电源提供整个变送器的工作电源，安全栅板主要负责流量传感器与变送器之间本质安全隔离；核心处理器板主要进行传感器相位信号的检测处理并输出质量流量信号以及通讯处理。

Flow transmitter is a micro-programming-centered electronic system, which supplies driving force to the sensor, transforms sensor signal into mass flow signal, and improves the measurement accuracy in accordance with temperature parameter. The transmitter is composed of switching power supplier, safety grating, core processor board, display module, etc., installed in a ex-proof junction box. Switching power supply offers for the transmitter; safe grating isolates flow sensor and transmitter intrinsically; core processor detects & processes sensor phase signal, sends mass flow signal and process communication.

Y系列预置阀 Y Series Preset Valves



Y系列机械预置阀，2"，3"，4"，安装在流量计的出口，在任何系统压力下，都可以完全切断液流，操作简单快捷。该阀可以手动操作，也可以连接到单级或两级机械预置计数器。

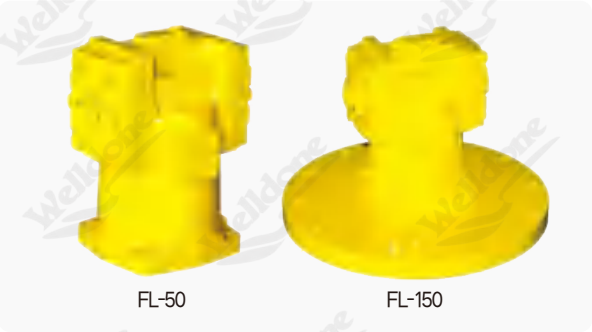
The Y-series mechanically actuated Preset valves are available in 2" through 4" size and are designed for mounting on the meter outlet to provide tight shutoff with smooth and easy operation regardless of system line pressure. Valves may be manually operated or connected via a mechanical linkage to a preset counter on the meter for single stage closure, or two stages closure to eliminate hydraulic shock

流量计系列 Flow Meter Series



FI分离器 FL Air Eliminator

铝制、铸铁和不锈钢供选择
Aluminum, cast iron and stainless steel available



过滤器 Strainer

根据不同的产品，黏度和预期的计量温度，选择适当的过滤网
The proper strainer basket to use depends on the product and viscosity of the product over the expected range of metering temperatures.



GLQ 系列过滤网 GLQ Series Filter

铝制、铸铁和不锈钢供选择
Aluminum, cast iron and stainless steel available



型号 Model	GLQ-50	GLQ-80	GLQ-100	GLQ-150
口径 Diameter	50mm/2"	80mm/3"	100mm/4"	150mm/6"

Q Series 气动止回阀 Q Series Check Valve



Q系列气动止回阀安装在流量计的出口。为了确保计量准确，当管路中有空气时，用来关断液流。
The Q Series air-activated check valves are installed on the outlet side of the meter, and are designed to stop the flow of liquid whenever air is present to ensure accurate measurement.

型号 Model	尺寸 Size	最大流速 Max. flow rate	材质 Material	适用流量计 Used with meter
Q-50	1.5" and 2"	550L/min	Aluminum	WDTCS-40, WDTCS-50
Q-80	3"	1150L/min	Aluminum	WDTCS-80, WDTCS-100

WDLPG-50 LPG 差压阀 WDLPG-50 LPG Differential Valve



LPG 差压阀安装在流量计的出口，并连接到油气分离器。在管路中有气体时，用于关闭的作用。
LPG 差压阀可以维持足够的压力，使高挥发性的LPG和NH3，始终保持在液体状态。

The LPG differential valve mounted on the meter outlet and connected at the valve to the vapor eliminator on the meter with function 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 (NH3) always remain in the liquid state. The valve is spring loaded and designed to fail closed.

型号 Model	尺寸 Size	最大流速 Max. flow rate	工作电压 Operating voltage	材质 Material	适用流量计 Used with meter
WDLPG-50	2"	760L/min	25Bar/350PSI	铝合金 Aluminum	WDLPG-50

WDOGM系列椭圆齿轮流量计 WDOGM Series Oval Gear Meter



WDOGM-50



WDOGM-DL



WDOGM-JX



WDOGM-P



WDOGM-LC

应用范围 Application

适用于石油，化工，医药，交通，食品等工业及商业

Widely used in industries of petroleum, chemical processing, medicine, transportation, food, etc.

概论 Overview

WDOGM系列铸铝椭圆齿轮流量计用来传输大黏度范围的液体，并具有很好的重复性和使用寿命，可以广泛使用于石油、化工、医药、交通、食品等工业。

WDOGM Series aluminum oval gear meter has the ability to handle a wide range of fluid viscosities with exceptional levels of repeatability and durability, applying in the petroleum, chemical, food industry, etc.

特点特征 Advantage

结构紧凑，维护容易

Compact size, easy maintenance

易读易操作的机械显示和LCD显示

Easy to read and operate mechanical display and LCD display.

水平或竖直灵活安装

Horizontally and vertically flexibility of installation options

压力损失小

Low pressure loss

主要技术参数 Technical Specification

型号 Model	WDOGM-25	WDOGM-40	WDOGM-50
尺寸 Size	1"	1.5"	2"
流量范围 Flow range	20-200L/min	25-250L/min	30-300L/min
精度 Accuracy	±0.5%		
重复度 Repeatability	≤0.17%		
最大工作压力 Max. Operation Pressure	34	18	18
包装尺寸 Dimension	35 × 35 × 23cm	40 × 23 × 41.5cm	49 × 28 × 25cm
净重 Net weight	8kg	14kg	13kg
毛重 Gross weight	9kg	15kg	14kg

WDSM 系列叶片式容积流量计 WDSM Series PD Rotary Vane Flow Meter(CE Approval)



WDSM-50



WDSM-50P



WDSM-80



WDSM-80P



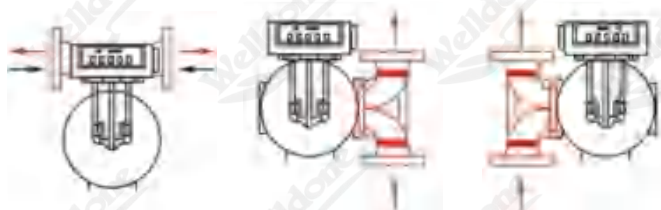
WDSM-80PP

应用范围 Application

石油公司：炼厂、油库、加油站和油罐车
机场：飞机加油
港口：船舶加油
私人油料运输公司

Oil companies: refineries, oil depots, gas stations and tankers
Airport: Airplane refueling
Port: Vessel Refueling
private oil transportation company

灵活的安装方式 Flexible installation



特点特征 Advantage

特有的无级微调装置使流量计可以进行正负校准。
连接弯管和流量计计量腔分体设计，便于灵活安装
低压损失
转子叶片结构简单，维护成本低
磨损补偿结构可以多年保证很好的计量精度
用于最大黏度为800Cst的液体计量

Stepless adjusting mechanism allows a micro adjustment of the meter
Special designed manifold separates from measuring chamber for flexible installation
Low pressure loss
Simple construction of rotor blades for easy and low maintenance cost.
Wearing compensation to maintain a good accuracy all along the years.
Meter for viscous products up to 800Cst.

主要技术参数 Technical Specification

型号 Model	WDSM-50	WDSM-80
尺寸 Size	50mm/2"	80mm/3"
容积/转 Volume per Revolution	0.4L/0.08US Gallons	2.27L/0.5US Gallons
最高流量 Max.Flow Rate	24m³/H, 400L/min	80m³/H, 1333L/min
最低流量 Min.Flow Rate	2.4m³/H, 40L/min	8m³/H, 133.3L/min
美制加仑 US gallons	10.5US Gallons	36US Gallons
精度 Accuracy	± 0.2%	
重复度 Repeatability	=0.05%	
最大工作压力 Max.Operation Pressure	8Bar/120PS/8.3kg/cm³	10Bar/150PSI/10.5kg/cm³
工作温度范围 Working Temperature range	-40° C~+60° C	
最大粘度 Max.Viscosity	800cps/3850SSU	



JXJSQ-1机械计数器 JXJSQ-1 Mechanical Register

JXJSQ-1机械计数器采用易读易看的大数字结构，用于多种工业领域内的高速计数和显示，例如在石油精炼和存储过程中，可以用在管道、存储和油罐车上或化工领域，用于批次计数。

The JXJSQ-1 Mechanical Register is the outstanding choice for recording and displaying every 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 totalizers and displays high speed deliveries and transactions in large easy-to-read figures.

特点特征 Advantage

高可见度的大数字显示增强了可读性
新型材料的应用保证了高速计数时最好的可靠性
顺时针方向的回零手轮
内置8位总累，5位单次加油量
部分零件采用了聚甲醛树脂，寿命更长
适用于各种工业流量计

High visibility digital display for optimum readability in all ambient lighting.
Latest technology, modern materials give maximum dependability at speeds to 250 RPM of right wheel ord.
Positive action knob reset
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



齿轮盘 Gear Plate

齿轮盘安装在机械计数器地盘上，把流量计输出轴上的机械转动转换成一定的计量单位。通过简单的更换齿轮就可以更换计量单位。

The gear plate is installed in the base of the mechanical register to convert meter rotary shaft output to an unit of measurement, changing units of measurement, is simple since all conversions are made with easily accessible gears.



JXJSQ-3

JXJSQ-3 机械打印机 JXJSQ-3 Mechanical Register with Ticket Printer

机械打印机用来打印单次加油量，是油品销售的理想产品

JXJSQ-3 Mechanical printer is used to print the amount of fuel for a single filling, which is an ideal product for oil sales

型号 Model	包装尺寸 Dimension	净重 Net weight	毛重 Gross weight	包装 Package
JXJSQ-3	34 × 28 × 38cm	9.5kg	10.5kg	1台/箱 1pc/carton



JXJSQ-2

JXJSQ-2 机械预置计数器 JXJSQ-2 Mechanical Preset Register

机械预置计数器分为单级或两级两种，用于预置一定的加油量和控制机械预置阀

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

WDEFC电子计数器 WDEFC Electronic Register



打印机 Printer

电源 Power	温度 Temperature	湿度 Humidity	单次加油量 Sub-total	总累 Totalizer	计量精度 Measurement precision
DC12V DC24V Ac220 $\pm$ 20%,50Hz $\pm$ 1Hz	-20°C~+55°C	$\leq$ 95%	6位 6digital	8位 8digital	$\pm$ 0.1%

概论 Overview

WDEFC 电子计数器采用现代高性能ARM微处理器，运算速度高、功耗低、性能稳定，本安设计，更加稳定可靠，功能强大。本产品具有测量精度高、性能稳定；使用范围广，可安装在各种流量计上；配有液晶显示器，操作直观、简单，可用于油库、加油车、码头等各种场合，是传统机械计数器的理想代替产品

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

优点 Advantage

可以配合各种电子传感器实现高精度大流量的计量
可以实现任意加油和预置加油的控制
可配带打印机，打印交易记录

Matching with the variety pulser to achieve the measurement of high-precision large flow.

Free refueling and preset refueling for option

Equipped with printer to print the transaction records. It equippers, makes the operation very direct-viewing

流量计系列 Flow Meter Series



WDP 光电传感器 WDP Pulser

电压: DC 5V
每转100脉冲
适用的温度范围: -40℃-+85℃ (-40 -185)
Voltage:DC 5V
100 pulses per encoder revolution
Operating temperature range:-40℃-+85℃ (-40 -185)



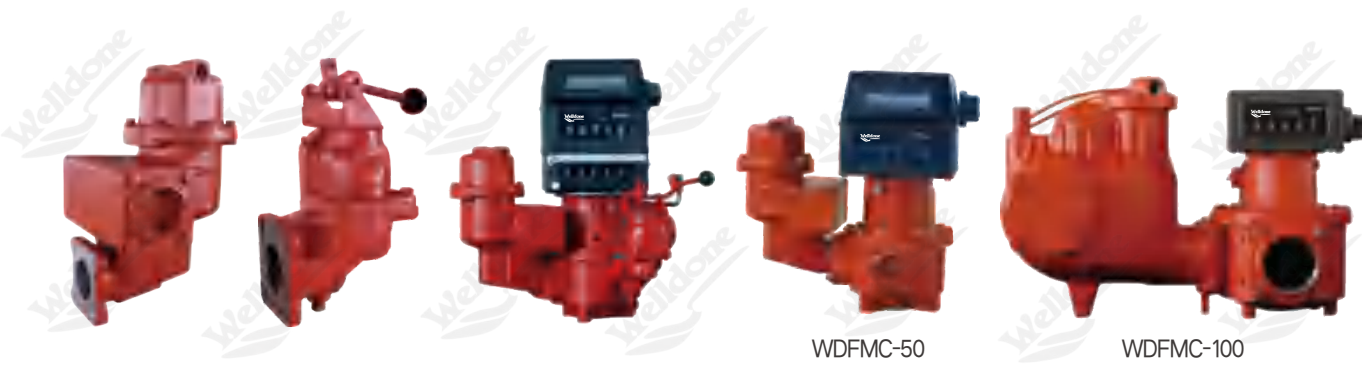
WD-V-50/80 不锈钢双流电磁阀 Stainless Steel Dual-flow Solenoid Valve



主要技术参数 Technical Specification

型号 Model	WD-V-50	WD-V-80
尺寸 Size	DN50	DN80
最大流量 Max.Flow Rate	380L/min	750L/min
最小流量 Min.Flow Rate	50L/min	
最大工作压力 Max.Working Pressure	10Bar	
材质 Material	不锈钢/铸钢 Stainless Steel/Casting steel	
工作电压 Voltage	220VAC 50HZ	
包装尺寸 Dimension	36 × 33 × 30cm	42 × 35 × 35cm
净重 Net weight	13KG	20KG
毛重 Gross weight	14KG	27KG
包装 Package	1台/纸箱 1pc/carton	1台/木箱 1pc/wooden case

WDFMC 系列重力流量计 WDFMC Series Rotary Vane Flow Meter (gravity) CE Approval



应用范围Application

用在各种油品、容积、化学、涂料、化肥等的混合、批处理、分装、存货控制和密闭输送。
Blending, batching, dispensing, inventory control, and transferring of oils, solvents, chemicals, paints, fertilizer, etc.

特点特征Advantage

WDFMC 系列流量计是单腔的旋转叶片容积式流量计
计量精度高，使用范围广，适用于计量汽油到煤油的各种油品
结构紧凑，多种设计，适合各种安装形式
低压力损失，适合重力卸油
使用寿命长，低磨损轴承和凸轮结构使流量计可以高精度的长时间运转
WDFMC Series 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 loss, a true gravity flow meter
Long service life, low friction ball bearings, fixed cam-type shaft construction give sustained accuracy and long time operation

主要技术参数 Technical Specification

型号 Model	WDFMC-50	WDFMC-80	WDFMC-100
尺寸 Size	50mm/2"	80mm/3"	100mm/4"
流量范围 Flow rate range	38-380L/min	75-750L/min	150-1500L/min
最大工作压力 Max. Working Pressure	10Bar/150PSI		
精度 Accuracy	± 0.2%		
重复度 Repeatability	≤ 0.07%		
包装尺寸 Dimension	59 × 34 × 52cm	70 × 40 × 58cm	83 × 46 × 65cm
净重 Net weight	42kg	56kg	80kg
毛重 Gross weight	54kg	70kg	96kg
包装 Package	1台/木箱 1pc/wooden case		

WDLC 系列椭圆齿轮流量计 WDLC Series Oval Gear Meter



WDLC-40



WDLC-50



WDLC-80



WDLC-SS

概论 Overview

WDLC 系列椭圆齿轮流量计用来传输大黏度范围的液体，并具有很好的重复性和使用寿命，可以广泛使用于石油、化工、医药、交通、食品等工业。

WDLC Series Oval Gear Meter has the ability to handle a wide range of fluid viscosities with exceptional levels of repeatability and durability, applying in the petroleum, chemical, food industry, etc.

特点特征 Advantage

结构紧凑，维护容易

易读易操作的机械显示和LCD显示

水平或竖直灵活安装

压力损失小

Compact size, easy maintenance

Easy to read and operate mechanical display and LCD display.

Horizontally and vertically flexibility of installation options

Low pressure loss

主要技术参数 Technical Specification

型号 Model	WDLC-40	WDLC-50	WDLC-80	WDLC-100
尺寸Size	1.5"	2"	3"	4"
流量范围 Flow range	40-150L/min	60-300L/min	140-700L/min	160-1600L/min
最大工作压力 Max. Operation Pressure	18Bar			
精度 Accuracy	$\pm 0.2\%$ or $\pm 0.5\%$			
重复度 Repeatability	$\leq 0.05\%$ or $\leq 0.17\%$			
包装尺寸 Dimension	36 × 24 × 34cm	41 × 28 × 38.5cm	44 × 34 × 42cm	47 × 38 × 46cm
净重 Net weight	16kg	25.5kg	45kg	65kg
毛重 Gross weight	20kg	28kg	48kg	73kg
包装 Package	1台/木箱 1pc/wooden case			

流量计系列 Flow Meter Series

Welldone 汇洋能源

WDWL 涡轮流量计 WDWL Turbine Meter



WDWL-25



WDWL-40

特点特征 Advantage

高精度、耐用和体积小巧的涡轮流量表；
2个累积量（1个可复位，1个可累计）；
加仑和升可以随意转换；
内部组件容易更换，维护方便轻巧、紧凑的设计易于安装；
锂电池供电，大约9000小时

High accuracy,Durable,Compact
Two cumulants(resetting,and accumulating)
Gallon or Liter Option
Easy Maintenance
Lithium Battery supplying 9000 Hours power

主要技术参数 Technical Specification

型号 Model	WDWL25	WDWL40
进出口螺纹连接 Inlet and Outlet	NPT1" BSP1"	NPT1.5" BSP1.5"
本体材质 Body Material	铝Aluminum	
流量范围 Flow Range	5-50GPM(18.9-190LPM)	5-50GPM(18.9-190LPM)
精度 Accuracy	±1.0%	±0.5%
重复性 Repeatability	±0.1%	
压力等级 Pressure Class	300PSI/21Bar	

WDBL Flow Meter

主要技术参数 Technical Specification

型号 Model	WDBL
流量 Flow Rate	5-60L/min
每转排量 Discharge Rate Per Revolution	0.5L
最小可调量 Adjustable Minimum Volume	0.05%
精度 Accuracy	±0.2%
重复度 Repeatable Tolerance	≤0.07%
包装尺寸 Dimension	50X29X24cm
净重 Net weight	12kg
毛重 Gross weight	13kg



WDLLJ-120L/G Flow Meter

WDLLJ-120L/G 机械流量表用于非商业用途时计量加油量，质量可靠，价格便宜，易于安装和校对。

铝制外壳，1" 螺纹连接

4位单次加量，可手动回零；8位不可回零总累。

WDLLJ-120L/G Flow Meter is to measure the exact quantity of the dispensed fuel.

They are designed for noncommercial use and simple to calibrate on the workplace.

Aluminium metering chamber, 1" thread connection

Mechanical readout device with rotating wheels. 4 digital subtotals can be set to zero, 8 digital totalizer can not be resetted.

WDLLJ-40L/G Flow Meter

WDLLJ-40L/G 系列流量表，用于计量柴油、汽油、煤油。具有数字大、易读数；可以快速回零旋钮；灵活的水平或垂直安装等特点。

可回零计数器最大显示999.9加仑，总累99999999加仑

WDLLJ-40L/G Flow Meter, 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 can be positioned vertically or horizontally.

The easy reset register indicates product use up to 999.9 gallons. The master totalizer registers up to 99999999 gallons.

WDLLJ-30L/G Flow Meter

铝制外壳，1" 螺纹连接

3位单次加油量，可手动回零；6位不可回零总累。

Aluminium metering chamber, 1" thread connection

Mechanical readout device with rotating wheels. 3 digital subtotals can be set to zero, 6 digital totalizer can not be resetted.



WDLLJ-120



WDLLJ-30



WDLLJ-40



WDLLJ-30



主要技术参数 Technical Specification

型号 Model	WDLLJ-120L/G	WDLLJ-40L/G	WDLLJ-30(A)L/G
计量单位 Measurement	升/美加仑 Litre/US Gallon	升/美加仑 Litre/US Gallon	升/美加仑 Litre/US Gallon
最大工作压力 Max. pressure	3bar	3bar	3bar
流量 Flow rate	20-120L/min	7-40GPM	20-120L/min
进出口 Inlet&outlet	BSPF/NP 1"	BSPF/NP 1.5" or 1"	BSPF/NP 1"
精度 Accuracy	± 1%	± 1%	± 1%
包装尺寸 Dimension	51x25x37cm	64x30x43cm	45x24x43cm
净重 Net weight	11kg	20kg	10kg
毛重 Gross weight	12kg	21.5kg	11kg
包装 Package	6PCS/CTN		

流量计系列 Flow Meter Series



WDNS流量计 WDNS Meter

高精度、耐用和体积小，提供2个累积量（1个可复位，1个可累计）；
计量单位加仑和升可以随意转换；
PPC壳体，还可用于化工、医药等腐蚀性介质计量场合。

High accuracy,Durable,Compact,Two cumulants(resetting,and accumulating)
Gallon or Liter Option
PPC body, for measurement of corrosive medium in chemical industry, medicine, etc.



主要技术参数 Technical Specification

型号Model	WDNS流量计
进出口螺纹连接 Inlet and Outlet	NPT1" BSP1"
本体材质 Body Material	聚苯硫醚PPS
流量范围 Flow Range	5-50GPM(18.9-190LPM)
精度 Accuracy	±0.5%
重复性 Repeatability	±0.1%
压力等级 Pressure Class	10Bar

WDTY 椭圆齿轮流量计 WDTY Oval Gear Meter

WDTY 椭圆齿轮流量计用于控制和计量不同黏度的液体，例如燃油、润滑油，具有高精度、低压力损失、易于安装等优点。
WDTY LCD椭圆齿轮流量计，5位单次加油量；8位不可重复总累。
WDTYP椭圆齿轮流量计，内置磁簧开关，单信号脉冲输出。
WDTY 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 and easy installation.
WDTY oval gear meter with LCD display,5-digital sub-total,8-digital non-resettable totalizer.
WDTYP oval gear meter with pulse output,reed switch built in,single chanel output.

输出波型曲线Output of pulser 每转单通道输出2个脉冲2 pulses per revolution



主要技术参数 Technical Specification

型号 Model	WDNS流量计
进出口 Inlet &outlei	BSPF 0.5"
计量精度 Accuracy	±0.5%
重复度 Repeatability	≤0.17%
最大工作压力 Max. Working pressure	70Bar
流量 Flow rate	1-30L/min
每转排量 Discharge rate per revolution	21 ml/r
电池 Battery power	3.6v14505 battery