



petroleum equipment manufacturing solutions

2025



# ABOUT US

*TSIT was initially established in 1988 in Ningbo, started as electrical motors and pumps manufacturer serving the local agricultural industry and also provide OEM for overseas companies. Since the business grows, our people constantly focus on the R&D. With bases of metal work experience, we expanded our production range in petroleum equipment products in 2001. Product covers in transfer nozzle, pump, flow meter, gas-station parts, control unit etc. Due to the boast in business, in 2019 we set up a new branch plant in JX province, which covered surface area of 33,000  $m^2$  with 180 employees, an in-house R&D laboratory, electronic lab, PCB workshop. Metal workshop, and production workshops.*

*We always focusing on our people who represent the real treasure of the company, we provide systematic training to our worker in terms working skills, technology, working safety and all aspects.*

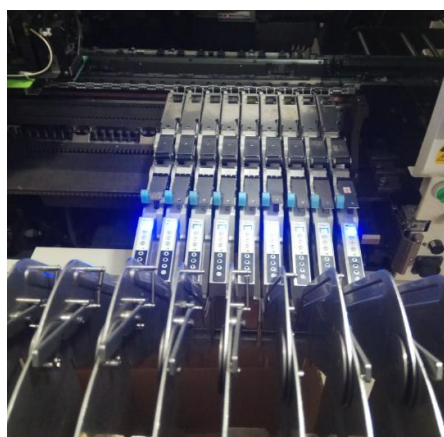
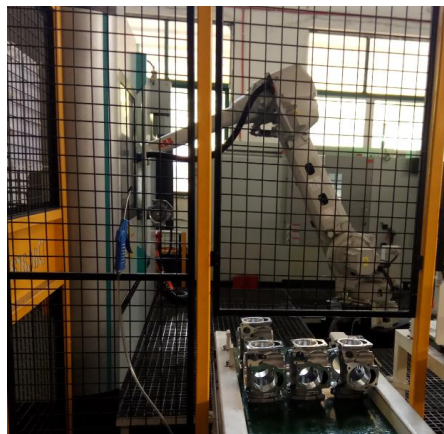
*Beside the domestic market, our business also plays in the US, Canada, Brazil, Argentina, Peru, Europa include Italy, Germany, Poland. The UK, Australia, Indonesia, India, Singapore, etc.*

*We are constantly commit to develop quality and new products to serve our customers and your voice are always more than welcome!*





# WORKSHOPS





# 01 TRANSFER NOZZLES



Automatic Nozzle

**Item No.: TSN-11**

Inlet: BSP3/4"

Ext.Dia.of Spout:20/24mm optional

Max. Flow:60L/min

Fluids Type:Diesel/Gasoline/Kerosene



Automatic Nozzle

**Item No.: TSN-11AP**

Inlet: BSP3/4"

Ext.Dia.of Spout:20/24mm optional

Max. Flow:60L/min

Fluids Type:Diesel/Gasoline/Kerosene



Automatic Nozzle

**Item No.: TSN-120**

Inlet: BSP1"

Ext.Dia.of Spout:30mm

Max. Flow:120L/min

Fluids Type:Diesel/Gasoline/Kerosene



**Foam-less** Automatic Nozzle

**Item No.: TSN-11APFL**

Inlet: BSP3/4"

Ext.Dia.of Spout:20/24mm optional

Max. Flow:60L/min

Fluids Type:Diesel/Gasoline/Kerosene

*Compare with regular nozzle, a foam-less nozzle produce 30% less foam during refueling, avoid pre-shut off. No need to waiting long to fulfill the container, makes your refueling more efficient!*



Foam-less

Regular



# 01 TRANSFER NOZZLES



No pressure-No Flow Automatic Nozzle

**Item No.: TSN-11B**

Inlet: BSP3/4"

Ext.Dia.of Spout:13/16" 15/16" optional

Max. Flow:45L/min 60 L/min

Fluids Type:Diesel/Gasoline/Kerosene



No pressure-No Flow Automatic Nozzle

**Item No.: TSN-7HB**

Inlet: BSP3/4"

Ext.Dia.of Spout:1-13/16"

Max. Flow:120L/min

Fluids Type:Diesel/Gasoline/Kerosene



Vapour Recovery Nozzle, No Pressure No Flow

**Item No.: TSN-VW**

Inlet: M34×1.5

Ext.Dia.of Spout:19mm

Fluids Type: Gasoline

Color of Insulator: red/green/blue/yellow/black



Vapour Recovery Nozzle With Proportional Valve

**Item No.: TSN-VR**

Valve Inlet: BSPF3/4"

Valve Outlet: M34×1.5

Ext.Dia.of Spout:19mm

Fluids Type: Gasoline



Automatic Nozzle

**Item No.: TSN-Z1**

Inlet: BSP1"

Ext.Dia.of Spout:20/24mm optional

Max. Flow:60L/min

Fluids Type:Diesel/Gasoline/Kerosene





## 01 TRANSFER NOZZLES



Heavy Duty Automatic Nozzle

**Item No.: TSN-200**

Inlet: BSP1.5"

Ext.Dia.of Spout:40mm

Max. Flow:200L/min

Fluids Type:Diesel/Gasoline/Kerosene



Heavy Duty Automatic Nozzle

**Item No.: TSN-1290**

Inlet: BSP1.5"

Ext.Dia.of Spout:38mm

Max. Flow:250L/min

Fluids Type:Diesel/Gasoline/Kerosene



Manual Nozzle

**Item No.: TSN-M1**

Inlet: BSP1"

Ext.Dia.of Spout: 24mm

Max. Flow:60L/min

Fluids Type:Diesel/Gasoline/Kerosene



Manual Nozzle

**Item No.: TSN-M2**

Inlet: BSP1"

Ext.Dia.of Spout: 24mm

Max. Flow:60L/min

Fluids Type:Diesel/Gasoline/Kerosene



Manual Nozzle

**Item No.: TSN-M2P**

Inlet: BSP1"

Ext.Dia.of Spout: 24mm

Max. Flow:60L/min

Fluids Type:Diesel/Gasoline/Kerosene



# 01 TRANSFER NOZZLES



Manual Nozzle

**Item No.: TSN-MPP**

Inlet barb: Ext.Dia.19mm

Ext.Dia.of Spout: 24mm

Max. Flow:45L/min

Body material:PP

Fluids Type:Diesel /Kerosene



Manual Nozzle With Turbine Flowmeter

**Item No.: TSN-TBM**

Inlet: BSP1" (come with swivel barb fitting)

Ext.Dia.of Spout: 24mm

Flow range:20-75L/min

Fluids Type:Diesel/ Kerosene

Unit: Liter/Gallon/Pints/Quarts

Meter Accuracy:  $\pm 1\%$



Manual Nozzle With Oval Gear Flowmeter

**Item No.: TSN-OGM**

Inlet: BSP1" (come with barb fitting)

Ext.Dia.of Spout: 24mm

Flow range:20-60L/min

Fluids Type:Diesel/ Kerosene

Unit: Liter Meter Accuracy:  $\pm 1\%$



Automatic Nozzle With Turbine Flowmeter

**Item No.: TSN-11E1**

Meter Inlet: BSP1"

Ext.Dia.of Spout: 24mm

Flow range:20-60L/min

Fluids Type:Diesel/ Kerosene

Unit: Liter/Gallon/Pints/Quarts

Meter Accuracy:  $\pm 1\%$



# 01 TRANSFER NOZZLES



Automatic Nozzle With Turbine Flowmeter

**Item No.: TSN-120E1**

Meter Inlet: BSP1"

Ext.Dia.of Spout: 30mm

Flow range:20-120L/min

Fluids Type:Diesel/ Kerosene

Unit: Liter/Gallon/Pints/Quarts

Meter Accuracy:  $\pm 0.5\%$



Automatic Nozzle With Turbine Flowmeter

**Item No.: TSN-MEJH**

Inlet: BSP1"

Ext.Dia.of Spout:20/ 24mm

Flow range:10-60L/min

Fluids Type:Diesel/ Kerosene

Unit: Liter/Gallon/Pints/Quarts

Meter Accuracy:  $\pm 1\%$



Manual Nozzle With Mechanical Flowmeter

**Item No.: TSN-MC3**

Size: 1" 1.2" 1.5"

Flow range:10-100L/min

Fluids Type:Diesel/ Gasoline/Kerosene

Unit: Liter Meter Accuracy:  $\pm 1\%$



Manual Nozzle With Mechanical Flowmeter

**Item No.: TSN-C1**

Size: 1" 1.2" 1.5"

Flow range:10-100L/min

Fluids Type:Diesel/ Gasoline/Kerosene

Unit: Liter Meter Accuracy:  $\pm 1\%$



## 01 TRANSFER NOZZLES



Automatic Nozzle With Turbine Flowmeter

**Item No.: TSN-MEKYA**

Inlet: BSP1"

Ext.Dia.of Spout: 24mm

Flow range:20-60L/min

Fluids Type:Diesel/ Kerosene

Unit: Liter/Gallon/Pints/Quarts

Meter Accuracy:  $\pm 1\%$



Manual Nozzle With Turbine Flowmeter

**Item No.: TSN-MEKYM**

Inlet: BSP1"

Ext.Dia.of Spout: 24mm

Flow range:20-60L/min

Fluids Type:Diesel/ Kerosene

Unit: Liter/Gallon/Pints/Quarts

Meter Accuracy:  $\pm 1\%$



**Insulator**



**Spout**



**Spout**

## 02 POSITIVE DISPLACEMENT FLOW METERS & ACCESSORIES



### **M series Positive Displacement Flow Meter**

*Excellent step less 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 lifetime 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.*



**M-80-1**

*Meter with mechanical register, air eliminator and strainer*



**M-50-KPX-1**

*Meter with electronic register, strainer, air eliminator and solenoid valve*



**MA-50-CX-10**

*LPG Meter with mechanical register, differential valve, air eliminator and strainer*



**M-50-KX-1**

*Preset meter with preset mechanical register, preset valve, air eliminator and strainer*



**M-150-A-1**

*Meter with mechanical register 4" & 6" flange for option*



**M-80-G-1**

*Meter with mechanical register & printer, strainer, air eliminator*



**M-50-NX-1**

*Preset meter with mechanical preset register, printer, strainer, air eliminator and preset valve*



**M-50-PP-1**

*Meter with pulser output*



**M-50-8**

*Stainless steel meter with mechanical register, air eliminator and strainer*



## 02 POSITIVE DISPLACEMENT FLOW METERS & ACCESSORIES



### Technical Specification & Package Data

Model	M-40-1	M-50-1	M-80-1	M-100-1	M-150-1
Size	40mm/1.5"	50mm/2"	80mm/3"	100mm/4"	150mm/6" and 100mm/4" for option
Flow Range	25-250L/min	55-550L/min	115-1150L/min	170-1700L/min	300-3000L/min
Volume Per Revolution	0.309L	0.681L	1.839L	5.102L	14.87L
Max. Pressure	10Bar				
Accuracy	±0.2%				
Repeatability	≅ 0.07%				
Measurement Units	Liter/US Gallon/IMP Gallon				
Dimension	51*46*49cm	51*46*49cm	58*50*61cm	76*64*72cm	80*65*79cm
Net Weight	23kg	26kg	40kg	70kg	130kg
Gross Weight	25kg	28kg	47kg	93kg	180kg
Package	1pc/Strong Yellow Paper Carton			1pc/Wooden Case	



## 02 POSITIVE DISPLACEMENT FLOW METERS & ACCESSORIES



### FL Air Eliminator

*Aluminum, cast iron, stainless steel for option*



**GLQ-50**



**GLQ-150**

### GLQ Strainer

*Aluminum, cast iron, stainless steel for option*

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



### Filter element

*The proper filter element to use depend on the product and viscosity of the product over the expected range of metering temperatures.*

Strainer Mesh	General Application
200M	LPG only
100M	Gasoline, Solvents, LPG
80M	Gasoline, Solvents
40M	Heating oil, Diesel oil, light oils
20M	Motor oils and viscous products

### V series Piston Valves

*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 shut off 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.*



**V-80**

Model	V-50	V-80	V-100
Size	1.5" and 2"	3"	4"
Max. Flow Rate	550L/min	1150L/min	1700L/min
Material	Aluminum		
Used with meter	M-40, M-50	M-80	M-100





**K-80**

## K series Air Activated Differential Check Valve

*The K-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.*

Model	K-50	K-80
Size	1.5" and 2"	3"
Max. Flow Rate	550L/min	1150L/min
Material	Aluminum	Aluminum
Used with meter	M-40 M-50	M-80 M-100

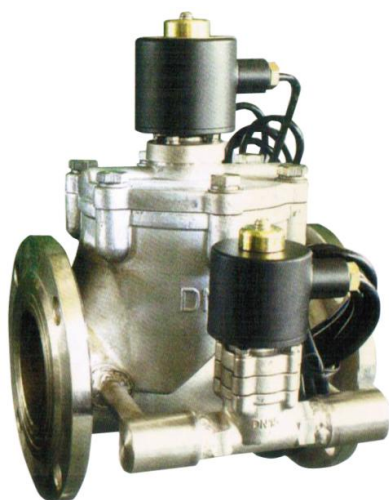


**V-50-LPG**

## V-50-LPG Differential Valve

*The 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.*

Model	V-50-LPG
Size	2"
Max. Flow Rate	760L/min
Working Pressure	25Bar/350PSI
Material	Aluminum
Used with meter	M-50



**SV-50**

## SV-50/80 Stainless Steel Dual-flow Piston Solenoid Valve

Model	SV-50	SV-80
Size	DN50	DN80
Max. Flow Rate	380L/min	750L/min
Min. Flow Rate	50L/min	
Max. Pressure	10Bar	
Material	Stainless steel	
Voltage	AC 220V/50HZ	
Dimension	36*33*30cm	49*42*42cm
Net Weight	12kg	16kg
Gross Weight	13kg	23kg
Package	1pc/Carton	1pc/Wooden Case

## 02 POSITIVE DISPLACEMENT FLOW METERS & ACCESSORIES

### FMC Series Rotary Vane Flow Meters

*Application includes: blending, batching, dispensing, inventory control, and transferring of oils, solvents, chemicals, paints, fertilizer, etc*



**FMC-50**

*Meter with mechanical register, Air eliminator and strainer*



**FMC-100**

*Meter with mechanical register, air eliminator and preset valve*



**FMC-50-NX-1**

*Preset meter with mechanical preset register, printer, air eliminator and preset valve*



2" air eliminator and strainer



2" preset valve

- 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 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

Model	FMC-50	FMC-80	FMC-100
Size	50mm/2"	80mm/3"	100mm/4"
Flow Rate Range	38-380L/min	75-750L/min	150-1500L/min
Max Working Pressure	10Bar/150PSI		
Accuracy	±0.2%		
Repeatability	≤ 0.07%		
Dimension	59*34*57cm	70*40*58cm	83*46*65cm
Net Weight	42kg	56kg	80kg
Gross Weight	57kg	70kg	96kg
Package	1PC/Wooden Case		



## 02 POSITIVE DISPLACEMENT FLOW METERS & ACCESSORIES

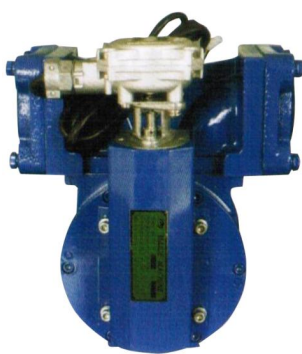
### SM Series Rotary Vane Flow Meters

**Application includes:** Oil company, refineries, fuel depot, gas station and tank trucks, aircraft refueling boats, barges, oil transport companies



**SM-80**

*Meter with mechanical register*



**SM-50**

*Meter with pulser*



**SM-50**

*Meter with mechanical register,*

#### Features:

- Step-less adjusting mechanism allows a micro adjustment of the meter.
- Specially 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 after years use.
- Meter for viscous products up to 800 Cst.

#### Materials:

**Manifold:** Aluminum

**Covers:** Steel

**Rotor:** Aluminium

**Baldes:** Carbon

**Bearings:** Stainless Steel

**Seals/Gaskets:** Viton, Buna 'N'

#### Technical Specification & Package Data

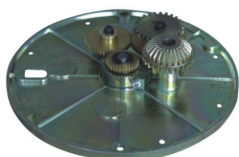
Model	SM-50	SM-80
Size	50mm/2"	80mm/3"
Volume Per Revolution	0.4L	2.27L
Flow Range	40-400L/min	133-1333L/min
Accuracy	$\pm 0.2\%$	
Repeatability	$\leq 0.07\%$	
Max. Pressure	8Bar	
Temperature Range	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$	
Dimension	35*29*47cm	44*40*62cm
Net Weight	18.5kg	65kg
Gross Weight	19.5kg	75kg
Package	1PC/Carton	

## 02 POSITIVE DISPLACEMENT FLOW METERS & ACCESSORIES



**JSQ-2 Mechanical register**

- High visibility digital display for optimum readability in all ambient lighting.
- Latest technology,modern materials give maximum dependability at speeds to 250RPM of right wheel rod.
- Positive action knob reset.
- Built-in precision totalizer count up to 99,999,999 units, partial indicator 5 digit.
- Acetal resin components for smooth operation and extra long life.
- Fits most type of industrial flow meters.



**Gear Plate**

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.

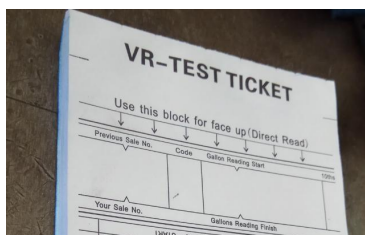


**JSQ-3 Mechanical Preset register**

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



**JSQ-4 Mechanical register with ticket printer**



Mechanical Register with Ticket Printer is idea mechanical printer for printing transaction record.

JSQ-2/E Electronic Register Systems adopts the modern high-performance ARM microprocessor with the function fo high operation speed, low power consumption, stable performance. 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**

<b>Power</b>	AC220±20%,50HZ±1HZ
<b>Temperature</b>	-20℃～+55℃
<b>Humidity</b>	≦ 95%
<b>Partial indicator</b>	6 digital
<b>Totalizer</b>	8 digital
<b>Precision</b>	±0.1%



## 03 FLOW METERS

### OGM Series Oval Gear Flow Meters

*OGM series oval gear meter has the ability to handle a wide range of fluid viscosity with exceptional levels of repeatability and durability, applying in the petroleum, chemical, food industry, etc.*



**OGM-A-25**

*Oval gear meter with mechanical register*



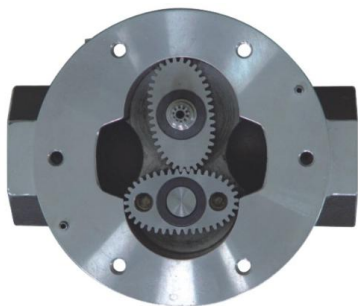
**OGM-A-25-P**

*Oval gear meter with pulser output*



**OGM-E-50**

*Oval gear meter with LCD register*



*Oval gears structures makes counting more accurate and stable*



#### Technical Specification & Package Data

Model	OGM-A-20	OGM-A-25	OGM-A-40	OGM-A-50
Size	3/4"	1"	1.5"	2"
Flow Range	10-80L/min	20-120L/min	25-250L/min	30-300L/min
Accuracy	$\pm 0.5\%$			
Repeatability	$\leq 0.17\%$			
Max. Viscosity	1000CPS			
Max. Pressure	34Bar	34Bar	18Bar	18Bar
Package	35*35*23cm	35*35*23cm	40*23*41cm	49*28*25cm
Net Weight	16kg	8kg	14kg	13kg
Gross Weight	17kg	9kg	15kg	14kg
Dimension	4PCS/CTN			2PCS/CTN

## 03 FLOW METERS



### LC Series Cast iron Oval Gear Meters

*LC Series Cast Iron oval gear meter has the ability to handle a wide range of fluid viscosity with exceptional levels of repeatability and durability, applying in the petroleum, chemical, food industry, etc.*

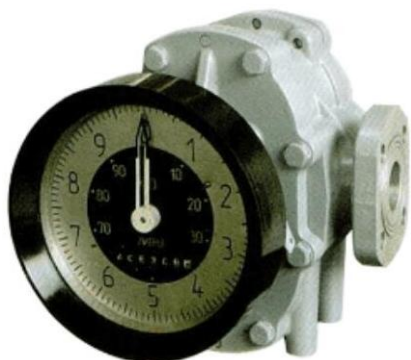


**LC-40**



**LC-150**

Accuracy（％）		±0.3			
（Mpa）		1.6(cast iron house)		4.0(cast steel house)	
Working Temp,（℃）		-30～+160			
Viscosity（mpa.s）		0.6～200			
Model	DN （mm）	Flow range（m3/h）			
		Petroleum products (mpa.s)			Chemical Liquids
		0.6～2	2～8	8～200	0.6～200
LC-10	10	0.15～0.4	0.08～0.4	0.04～0.4	0.1～0.4
LC-15	15	0.38～1.5	0.25～1.5	0.15～1.5	0.3～1.5
LC-20	20	0.75～3	0.4～3	0.3～3	0.6～3
LC-25	25	1.5～6	0.8～6	0.6～6	1.2～6
LC-40	40	3～15	2～15	1.5～12	2.4～12
LC-50	50	4.8～24	3.2～2.4	2.4～24	3.8～19
LC-80	80	12～60	8～60	6～60	10～50
LC-100	100	12～100	13～100	10～100	16～80
LC-150	150	30～150	20～150	15～150	30～150



**OGM-R-25/40 Oval Gear Meter**

Model	OGM-R-25	OGM-R-40
Size	25mm/1"	40mm/1.5"
Flow Range	20-120L/min	40-400L/min
Accuracy	±0.5%	
Repeatability	≅ 0.17%	
Max. Pressure	16Bar	6Bar
Package	2pcs/ctn	1pc/ctn
Net Weight	13.4kg	19.5kg
Gross Weight	14.4kg	20.5kg
Dimension	49.5*30*35cm	36*33*30cm



## 03 FLOW METERS



4-Digit flow meter ( Nutating disk type)

**Item No.: TSM-B**

In/outlet: 1"

Flow range: 20-120L/min

Precision:  $\pm 1\%$

Partial indicator: max. 9999L

Total: max.99999999L

Working temperature: -10~50°C



**Nutating disk**



Digit flow meter (Oval gears type)

**Item No.: TSM-OGM-BE25**

In/outlet: 1"

Flow range: 20-120L/min

Precision:  $\pm 0.5\%$

Working temperature: -10~50°C

Max.Pressure: 3.5Bar



4-Digit flow meter ( Oval gears type)

**Item No.: TSM-B-TC**

In/outlet: 1"

Flow range: 20-120L/min

Precision:  $\pm 1\%$

Partial indicator: max. 9999L

Total: max.99999999L

Working temperature: -10~50°C



**Oval gears**



4-Digit flow meter (Nutating disk type)

**Item No.: TSM-R**

In/outlet: 1.5"

Flow range: 20-120L/min

Precision:  $\pm 1\%$

Partial indicator: max. 9999L

Total: max.99999999L

Working temperature: -10~50°C

## 03 FLOW METERS



Mechanical flow meter (Oval gears type)

**Item No.: TSM-OGM-X25**

In/outlet: 1"

Flow range: 20-120L/min

Precision:  $\pm 0.5\%$

Working temperature:  $-10\sim 50^{\circ}\text{C}$

Max.Pressure: 3.5Bar



Mechanical flow meter (Oval gears type)

**Item No.: TSM-K600M**

In/outlet: 1"

Flow range: 6-60L/min (engine oil)

Flow range: 10-100L/min (diesel)

Accuracy:  $\pm 0.5\%$

Max.Pressure: 70Bar (engine oil)  
30Bar (diesel)



Digital flow meter (Oval gears type)

**Item No.: TSM-K600E**

In/outlet: 1"

Flow range: 6-60L/min (engine oil)

Flow range: 10-100L/min (diesel)

Accuracy:  $\pm 0.5\%$

Max.Pressure: 70Bar (engine oil)  
30Bar (diesel)



Pulser flow meter (Oval gears type)

**Item No.: TSM-K600P**

In/outlet: 1"

Flow range: 6-60L/min (engine oil)

Flow range: 10-100L/min (diesel)

Accuracy:  $\pm 0.5\%$

Max.Pressure: 70Bar (engine oil)  
30Bar (diesel)



## 03 FLOW METERS

### TSM-F- P Oval gear flow meter with pulser output

*Accurate to 0.5%, this meter featuring an oval gear measurement system, designed for extreme precise measuring of low viscosity fluids.. It can be widely applied in factories, coach yard, gas stations and household where diesels need to be measured. Easy to operate.*

**EASY CALIBRATION**

**+/-0.5% ACCURACY**

**0.17% ≤ REPEATABILITY**

#### Technical Data:

1. Max. pressure:3.5Bar
2. In/outlet:1"
3. Flow Range:20-120L/min
4. Application: Diesel/Kerosene (Do not use gasoline or products with low flash point!)
5. Flow direction: ←(Can be → if requested)
6. Accuracy:±0.3%      Repeatability: ≅ 0.17%



#### Technical Data:

1. Max. pressure:3Bar
2. In/outlet:1"
3. Flow Range:20-120L/min
4. Application: Diesel/Kerosene (Do not use gasoline or products with low flash point!)
5. Accuracy:±0.5%      Repeatability: ≅ 0.17%

### TSM-F-PC Meter with pulser output

**AdBlue® Version**



#### Technical Data:

1. Max. pressure:3Bar
2. In/outlet:1"
3. Flow Range:20-120L/min
4. Body material:PP
5. Application: AdBlue®/DEF/AUS32
6. Accuracy:±0.5%      Repeatability: ≅ 0.17%



#### Technical Data:

1. Max. pressure:3Bar
2. In/outlet:3/4"
3. Flow Range:10-40L/min
4. Body material:PP
5. Application: AdBlue®/DEF/AUS32/Diesel
6. Accuracy:±0.5%      Repeatability: ≅ 0.17%

### TSM-F-PC2 Oval Gear Meter with pulser output

## 03 FLOW METERS

### TSM-PST Preset Oval gear flow meter



**Diesel version**



**AdBlue®version**



**Gasoline version**



**Add-on transaction  
ticket printer  
on request**

The TSM-PST preset meter is designed for diesel counting with commercial or non-commercial purpose. It can be pre-setted by SALE or LITER. The meter can stop the liquid flow by cutting off the electricity to the pump. This meter can be used in factories, logistics companies, mining industries, construction machinery, etc.

#### Technical Data:

1. Power supply: DC12V/24V AC220V/50HZ
2. In/outlet: 1" / 1.5"
3. Flow Range: 20-80L/min (1") 20-150L/min (1.5")
4. Liquid type: Diesel/Kerosene/ AdBlue®/DEF/AUS32
5. Flow direction: →
6. Accuracy:  $\pm 0.5\%$  Repeatability:  $\leq 0.17\%$





## 03 FLOW METERS

### Digital turbine flow meter

**Item No.: ETM-E**

In/outlet: 1" 1.5"

Flow range: 20-120L/min 30-200L/min

Precision:  $\pm 1\%$

Working temperature:  $-10\sim 50^{\circ}\text{C}$

Fluid type: Diesel/gasoline/kerosene

Unit: Liter/Gallon/Pints/Quarts



Turbine flow meter

**Item No.: TSM-E24**

In/outlet: male 1"

Flow range: 10-100L/min

Precision:  $\pm 1\%$

Working temperature:  $-10\sim 50^{\circ}\text{C}$

Fluid type: AdBlue® /Diesel



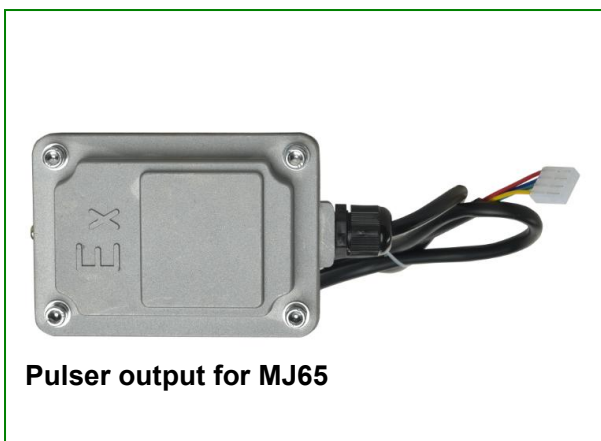
## 03 FLOW METERS



### Flow meters for fuel dispenser



Model	MJ-85S	MJ-65	MJ-50
Flow Rate	5-90L/min	5-90L/min	5-60L/min
Discharge rate per revolution	0.5L	0.5L	0.5L
Adjustable Minimum Volume	0.07%	0.07%	0.05%
Accuracy	±0.2%	±0.2%	±0.2%
Repeatability	≅ 0.07%	≅ 0.07%	≅ 0.07%







## Features

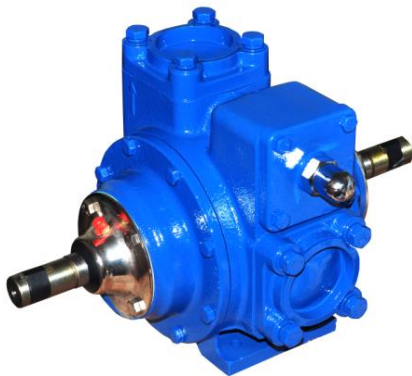
- ***Durable pumps for fast and quiet operation.***
- ***Sliding vane design provides sustained and trouble free operation,high reliability.***
- ***Adjustable relief valve protects pump from excessive pressure.***

### Applications:

- ***Fuel tank truck***
- ***Vessels refueling***
- **Aviation refueling**
- **Lube oils**
- **Petro chemicals/gasoline/biofuels/solvents**

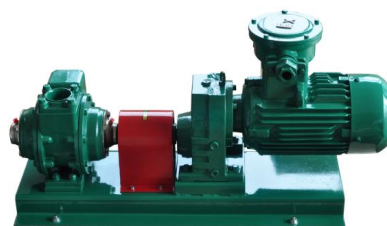


## YB-50 Single shaft



## YB-80 Double shaft

## 2 ways of installation



### ***Coupling Drive***



### V-Belt

Model	YB-50		YB-65		YB-80		YB-100
	Without Motor	With Motor. V-Belt Driven	Without Motor	With Motor. V-Belt Driven	Without Motor	With Motor. Coupling Driven	Without Motor
Size	50mm/2"		65mm/2.5"		80mm/3"		100mm/4"
Pump Speed	400-640RPM		400-640RPM		400-640RPM		500RPM
Max. Flow	150-300L/min		300-500L/min		600-1000L/min		1500-1900L/min
Vacuum	0.5Bar						
Working Pressure	5Bar						
Motor Power	2.2KW		4KW		7.5KW		18.5KW
Dimension	44*35*35cm	76*51*55cm	46*34*37cm	76*54*56cm	49*42*42cm	125*46*79cm	58*55*61cm
Net Weight	31kg	86kg	40kg	126kg	68kg	238kg	160kg
Gross Weight	34kg	118kg	47kg	146kg	74kg	266kg	178kg
Package	1pc/Wooden Case						

# 04 ROTARY VANE PUMPS

## SUB Series Vane Pumps



SUB-40

**SUB-Series pump is positive displacement vane pump, applied to transfer gasoline, kerosene, diesel and other light oil, used to load & unload in stock terminal, also on oil tank trucks and mobile fuel unit.**

### Features

**An excellent self-priming performance, vacuum up 0.06Mpa, instead of vacuum pump to clean the tank in vessel, truck, etc.**

**To transport gas-liquid two-phase, up to 50%, completely solve air lock, cavitation.**

**Sliding vane design provides sustained performance and trouble free operation, high reliability**

**Adjustable relief valve protects pump from excessive pressure.**



SUB-80

Model	SUB-40	SUB-50	SUB-80
Size	40mm/1.5"	50mm/2"	80mm/3"
Pump Speed	1400RPM	1400RPM	960RPM
Max. Flow Rate	180L/min	250L/min	500L/min
Vacuum	0.06MPa	0.06MPa	0.06MPa
Working Pressure	6Bar		
Motor Power	1.5kw	2.2kw	7.5kw
Dimension	40*33*33cm	32*32*36cm	49*42*42cm
Net Weight	20kg	20kg	40kg
Gross Weight	25kg	25kg	49kg
Package	1pc/Wooden Case		

## FMD Mobile refueling Unit

**MFD Series mobile fuel unit is containing our bulk positive displacement flow meter, pump & drive motor, power control panel, hose, hose reels & drive motor, applied in boat refueling in marine, public transportation vehicles, big truck, trains, military vehicles, light aircraft, with advantage of high flow rate, long service life, high accuracy, convenient & easy use, etc.**



MFD-40

Model	MFD-40	MFD-50	MFD-80
Flow Rate	200L/min	400L/min	700L/min
Flow meter	M-40-1 meter 2"	M-50-1 meter 2"	M-80-1 meter 3"
Pump	SUB-40 vane pump	YB-50 vane pump	YB-80 vane pump
Ex proof motor	1.5KW, 50HZ, 380V 220V motor for option	2.2KW, 50HZ, 380V 220V motor for option	7.5KW, 50HZ, 380V 220V motor for option
Hose	1.5" 20m	2" 20m	3" 20m
Nozzle/Hose adaptor	1.5" automatic nozzle Hose adapter for option		Hose adapter
Hose reel	Manual reel (electric motor driven reel for option)		
Preset function	For option		
Electric computer	For option		
Dimension	131*99*125cm	131*99*125cm	140*110*125cm
New Weight	260kg	270kg	305kg
Gross Weight	290kg	300kg	335kg
Package	1pc/Wooden Case		

## 05 DIESEL/GASOLINE TRANSFER PUMPS



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-550A-1**

Power:550w

V&Hz: 220V/50Hz

Capacity Max.: 60L/min

Suction Max.: 5m

Inlet/outlet:1"

Come with 2 hose connectors (1"×25mm) & filter



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-370A**

Power:370w

V&Hz: 220V/50Hz

Capacity Max.: 60L/min

Suction Max.: 5m

Inlet/outlet:1"

Come with 2 hose connectors (1"×25mm) & filter



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-A80**

Power:600w

V&Hz: 220V/50Hz

Capacity Max.: 76L/min

Suction Max.: 5m

Inlet/outlet:1"

Come with 2 hose connectors (1"×25mm) & filter



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-A100**

Power:750w

V&Hz: 220V/50Hz

Capacity Max.: 100L/min

Suction Max.: 5m

Inlet/outlet:1"

Come with 2 hose connectors (1"×25mm) & filter



## 05 DIESEL/GASOLINE TRANSFER PUMPS



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-A70**

Power:1100w

V&Hz: 220V/50Hz

Capacity Max.: 70L/min

Suction Max.: 5m

Inlet/outlet:1"

Come with 2 hose connectors (1"×25mm) & filter



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-A70**

Power:750w

V&Hz: 220V/50Hz

Capacity Max.: 105L/min

Suction Max.: 5m

Inlet/outlet:1"

Come with 2 hose connectors (1"×25mm) & filter



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-1100A-1**

Power:1100w

V&Hz: 220V/50Hz

Capacity Max.: 150L/min

Suction Max.: 5m

Inlet/outlet:1.5"



Stainless gear pump for high viscosity oil

**Item No: TSO-SS750-1**

Power:1100w

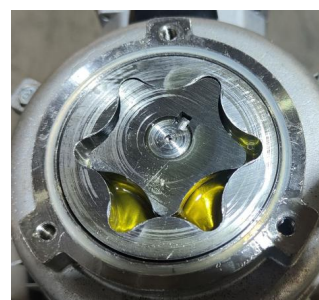
V&Hz: 220V/50Hz

Capacity Max.: 40L/min

Suction Max.: 2m

Inlet/outlet:3/4"

Liquid type: engine oil, etc



## 05 DIESEL/GASOLINE TRANSFER PUMPS



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-R**

Power:175w

Voltage:DC12/24V optional

Capacity Max.: 40L/min

Suction Max.: 5m

Inlet/outlet:3/4"

Come with 2 hose connectors (3/4"×25mm) & filter



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-D70**

Power:550w

Voltage:DC12/24V optional

Capacity Max.: 70L/min

Suction Max.: 5m

Inlet/outlet:1"

Come with 2 hose connectors (1"×25mm) & filter



Heavy Duty Diesel Transfer Pump (Self-priming Type)

**Item No: TSO-BF-D100**

Power:600w

Voltage:12V/24V/220V optional

Capacity Max.: **100L/min**

Suction Max.: 3m

Inlet/outlet:1"

## 05 DIESEL/GASOLINE TRANSFER PUMPS



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-D80**

Power:260w

Voltage:DC12/24V optional

Capacity Max.: 80L/min

Suction Max.: 5m

Inlet/outlet:1"

Come with 2 hose connectors (1"×25mm) & filter



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-DTP40**

Power:175w

Voltage:DC12/24V optional

Capacity Max.: 40L/min

Suction Max.: 5m

Inlet/outlet:3/4"

Come with 2 hose connectors (3/4"×25mm) & filter



Diesel Transfer Pump(Self-priming Type)

**Item No: TSO-DTP60**

Power:300w

Voltage:DC12/24V optional

Capacity Max.: 60L/min

Suction Max.: 5m

Inlet/outlet:3/4"

Come with 2 hose connectors (3/4"×25mm) & filter



## 05 DIESEL/GASOLINE TRANSFER PUMPS

### TSO-60EX Gasoline Transfer Pump



*Designed for agriculture, automotive and construction applications. 60LPM rotary vane pump that's built to perform. In lab tests the TSO-60EX lasted 24hours which is longer than the industry standard.*



**Item No:TSO-EX60 KIT**

Capacity Max.:60L/min

Head Max:12m

Inlet/outlet:1"

Voltage:12V/24V/220V/115V

Current:23A/13A/4A/8A

Power:1/4HP

Suitable for Gasoline/diesel/kerosene



**Suction pipes**



**2" Adaptor**



**Manual nozzle**

### TSO-55EX Gasoline Transfer Pump



**Item No:TSO-55EX KIT**

Capacity Max.:55L/min

Head Max:12m

Inlet/outlet:1"

Voltage:12V

Power:1/4HP

Suitable for Gasoline/diesel/kerosene

## 05 DIESEL/GASOLINE TRANSFER PUMPS

### TSO-38EX Gasoline Transfer Pump



**Item No:TSO-38EX KIT**

Capacity Max.:38L/min (10GPM)

Head Max:12m

Inlet/outlet:3/4"

Voltage:12V

Power:180W

Suitable for Gasoline/diesel/kerosene

*Mini DC fuel transfer pump is designed for home use, such as cars,small generator,gasoline powered tools, tank to barrel or tank to jerry can. Featured by double way switch, allows pump to run reversely.*



Mini Gasoline Pump

**Item No.: TSO-GP-MN**

Power: 1/10 HP

Voltage: DC 12V

Max. Flow: 2.3/3.7GPM

Inlet & Outlet:NPT1/2"

come with barb fittings



**TSO-GP-B**

Gasoline Pump

**Item No.: TSO-GP-B**

Power: 1/4 HP

Voltage: DC 12V

Max. Flow: 20GPM

Inlet & Outlet:NPT1"

Threaded Tank Adapter:NPT2"



**TSO-GP-BM with meter**

Gasoline Pump With Meter

**Item No.: TSO-GP-BM**

Power: 1/4 HP

Voltage: DC 12V

Max. Flow: 20GPM

Inlet & Outlet:NPT1"

Threaded Tank Adapter:NPT2"

## 05 DIESEL/GASOLINE TRANSFER PUMPS



Barrel pump with meter for Gasoline

**Item No:TSO-57EX KIT**

Capacity Max.:57L/min (15GPM)

Head Max:12m

Inlet/outlet:3/4"

Voltage:12V

Power:1.5HP

Suitable for Gasoline/diesel/kerosene



## 05 DIESEL/GASOLINE TRANSFER PUMPS

*The fully portable frame design allows you to fuel a variety of vehicles and equipment for a range of applications. From recreational and marine vehicles to lawn and landscape equipment.*



Diesel Transfer Pump With Meter Kit (Self-priming Type)

**Item No: TSO550A**

Power:550w

V&Hz: 220V/50Hz

Capacity Max.: 60L/min

Suction Max.: 5m

Inlet/outlet:1"

Come with 2 hose connectors (1"×25mm) & filter

Meter: partial register 4 digit, total register 8 digit

Meter Accuracy:  $\pm 1\%$

Come with 4 meters discharge hose& manual nozzle



Diesel Transfer Pump With Meter Kit (Self-priming Type)

**Item No: TSO-150D**

Power:550w

Power:175w

Voltage:DC12/24V optional

Capacity Max.: 40L/min

Suction Max.: 5m

Inlet:3/4"

Meter: partial register 4 digit, total register 8 digit

Meter Accuracy:  $\pm 1\%$

Come with 4 meters discharge hose& manual nozzle



AC Diesel Transfer Pump

**Item No:TSO- Z-2200A**

Inlet/outlet:2"

Capacity Max.:300L/min

Voltage:AC220V

Power:2200W

Pump Type: Self-priming

Suitable for Diesel/kerosene



AC Pump for gasoline (Self-priming Type)

**Item No.: TSO-GP70**

Rated Voltage& Hz: 220V/50HZ

Rated Power: 750W

IP:44

Max. Flow: 70L/min

REV:1420-1680R.P.M

ExdIIBT4

## 05 DIESEL/GASOLINE TRANSFER PUMPS

*Open Diesel dispenser Self-priming vane pump fitted with bypass, Oval gear preset meter with digital readout system. Come with delivery hose& nozzle*



**Item No:TSO-CB70**

Capacity Max.:60L/min

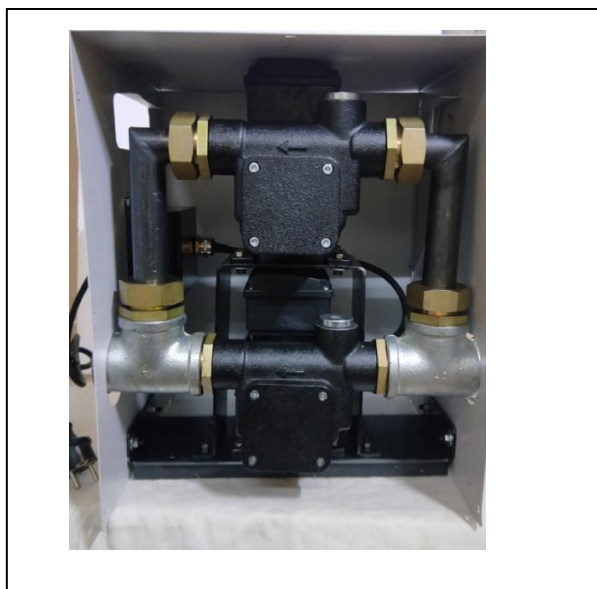
Inlet/outlet:1"

Voltage:12V/220V/

Power:550W

Suitable for diesel/kerosene

*High flow rate portable dual pump kit with max. capacity 150L/min. Suitable for mining machinery, fuel depot, large storage tanks.*



**Item No:TSO-DYB150**

Capacity Max.:150L/min

Inlet/outlet:1.5"

Voltage:12V/220V/

Power:1HP

Suitable for diesel/kerosene

Size:33\*32\*41cm

## 05 DIESEL/GASOLINE TRANSFER PUMPS



### DC EX-Proof Pump

**Item No: TSO- EXZ-500D**

Capacity Max.: 60L/min

Inlet/outlet: 1 "

Voltage: DC12V/24V

Power: 500W

Pump Type: Self-priming

Suitable for Gasoline/diesel/kerosene



### DC EX-Proof Pump

**Item No: TSO- EXJ-500D**

Capacity Max.: 60L/min

Inlet/outlet: 1 "

Voltage: DC12V/24V

Power: 500W

Pump Type: Centrifugal

Suitable for Gasoline/diesel/kerosene



### AC EX-Proof Pump

**Item No: TSO- EXJ-550A**

Capacity Max.: 60L/min

Inlet/outlet: 1 "

Voltage: AC220V

Power: 550W

Pump Type: Centrifugal

Suitable for Gasoline/diesel/kerosene



### AC EX-Proof Pump

**Item No: TSO- EXZ-550A**

Capacity Max.: 60L/min

Inlet/outlet: 1 "

Voltage: AC220V

Power: 550W

Pump Type: Self-priming

Suitable for Gasoline/diesel/kerosene



## 05 DIESEL/GASOLINE TRANSFER PUMPS



### DC EX-Proof Pump

**Item No:TSO- EXJ-1500D**

Capacity Max.:300L/min

Inlet/outlet:2"

Voltage:DC12V/24V

Power:1500W

Pump Type: Centrifigual

Suitable for Gasoline/diesel/kerosene



### DC EX-Proof Pump

**Item No:TSO- EXZ-1500D**

Capacity Max.:300L/min

Inlet/outlet:2 "

Voltage:DC12V/24V

Power:1500W

Pump Type: Self-priming

Suitable for Gasoline/diesel/kerosene



### DC EX-Proof Pump

**Item No:TSO- EXZ-1100D**

Capacity Max.:170L/min

Inlet/outlet:2 "

Voltage:DC12V/24V

Power:1100W

Pump Type: Self-priming

Suitable for Gasoline/diesel/kerosene

## 05 DIESEL/GASOLINE TRANSFER PUMPS



### **AC EX-Proof Pump**

**Item No:TSO- EXJ-2200A**

Inlet/outlet:2" /3"

Capacity Max.:300L/min 600L/min

Voltage:AC220V

Power:2200W/3000W

Pump Type: Centrifugal

Suitable for Gasoline/diesel/kerosene



### **AC EX-Proof Pump**

**Item No:TSO- EXZ-2200A**

Inlet/outlet:2"

Capacity Max.:300L/min

Voltage:AC220V

Power:2200W

Pump Type: Self-priming

Suitable for Gasoline/diesel/kerosene



### **AC EX-Proof Pump**

**Item No:TSO- EXZ-750A**

Inlet/outlet:1"

Capacity Max.:100L/min

Voltage:AC220V

Power:2200W

Pump Type: Self-priming

Suitable for Gasoline/diesel/kerosene

## 05 DIESEL/GASOLINE TRANSFER PUMPS



### AC EX-Proof Pump

**Item No: TSO- EXJT-1100A**

Inlet/outlet: 2"

Capacity Max.: 400L/min

Voltage: AC220V

Power: 1100W

Pump Type: Centrifugal

Suitable for Gasoline/diesel/kerosene



### AC EX-Proof Pump

**Item No: TSO- EXJ-1100A**

Inlet/outlet: 1.5"

Capacity Max.: 140L/min

Voltage: AC220V

Power: 1100W

Pump Type: Self-priming

Suitable for Gasoline/diesel/kerosene



### AC Three phase EX-Proof Pump

**Item No: TSO- EXJ-4000A**

Inlet/outlet: 3"

Capacity Max.: 750L/min

Voltage: AC380V

Power: 4000W

Pump Type: Self-priming

Suitable for Gasoline/diesel/kerosene



## 05 DIESEL/GASOLINE TRANSFER PUMPS



Aluminum Rotary Pump

**Item No.: THP-8-25**

Dia. Of Pump: 125mm

Dia. Of Suction Pipe: 32mm ( three-piece)

Dia. Of Spout: 25mm

Tank Fitting: 2inch NPT

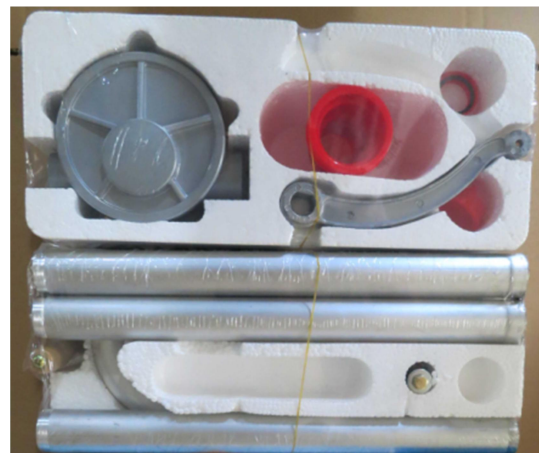
**Item No.: THP-8-32**

Dia. Of Pump: 135mm

Dia. Of Suction Pipe: 36mm ( three-piece)

Dia. Of Spout: 32mm

Tank Fitting: 2inch NPT



Cast Iron Rotary Pump

**Item No.: THP-7-25**

Dia. Of Pump: 120mm

Dia. Of Suction Pipe: 25mm ( three-piece)

Dia. Of Spout: 25mm

Tank Fitting: 2inch NPT

**Item No.: THP-7-32**

Dia. Of Pump: 128mm

Dia. Of Suction Pipe: 32mm ( three-piece)

Dia. Of Spout: 25mm

Tank Fitting: 2inch NPT



Lever Pump

**Item No.: THP-12**

Dia. Of Suction Pipe: 35mm ( telescope pipe)

Dia. Of Spout: 19mm

Tank Fitting: 2inch NPT



## 06 FILTERS

**TSF filters designed for diesel/gasoline/kerosene. With 30um paper cartridge or metal cartridge**

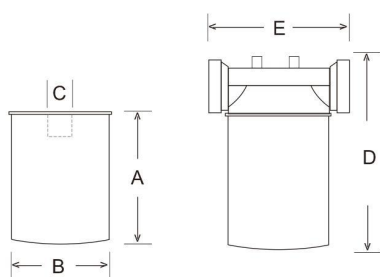


**TSF-GL-3**

**TSF-300**

**TSF-300L**

- ✓ Diesel
- ✓ Gasoline
- ✓ Kerosene



**TSF-300**



**TSF-GL-3**

### Technical Data

Model	Cartridge	Max.Flow	Max.O.P	Filtration	Port size
TSF-300 with holder	Acrylic resin paper	90LPM	3.4Bar	30µm	G1"
TSF-300 with holder	Steel mesh	90LPM	3.4Bar	250µm	G1"
TSF-300L with holder	Acrylic resin paper	90LPM	3.4Bar	30µm	G1"
TSF-300L with holder	Steel mesh	90LPM	3.4Bar	250µm	G1"
TSG-GL-3 with holder	Acrylic resin paper	56LPM	3.4Bar	30µm	G1"
TSG-GL-3 with holder	Steel mesh	56LPM	3.4Bar	250µm	G1"

### Installation Size

Model	A (mm)	B(mm)	C	D (mm)	E (mm)
TSF-300 with holder	138	93	1 1/2"-16UNF	189	103
TSF-300L with holder	206	93	1 1/2"-16UNF	250	103
TSG-GL-3 with holder	139	93	1"-12UNF	195	100



Filter Holder For GL-3  
**Item. No. TSFS-GL-1**  
 Material: aluminum  
 In/outlet: 1"  
 Size: 1"-12UNF



Filter Holder for TSF-300  
**Item. No. TSFS-GL2A**  
 Material: aluminum  
 In/outlet: 1"  
 Size: 1 1/2"-16UNF



Filter Holder  
**Item. No. TSFS-GL-2**  
 Material: aluminum  
 In/outlet: 1"  
 Size: 1 1/2"-16UNF

## 06 FILTERS

### Washable Filter Series



Washable Filter

**Item. No. GL-8**

Body Material: aluminum

In/outlet: 1"

Cartridge filtration: 169 micron

### Clear Diesel Water Separator



Clear Diesel Water Separator

**Item. No. GL-8DW**

Body Material: aluminum

In/outlet: 1"

Cartridge filtration: 169 micron

### Clear Captor Filter



**TSF-WS**



**Metal Cartridge 125um/PP 30um Cartridge**



**Flange&thread**

**Item. No. TSF-WS**

In/outlet: 1"



Diesel/water separator

**Item. No. TSF-B10**

In/outlet: 1"



Washable Filter

**Item. No. TSF-GL4**

In/outlet: BSP1"

Mesh filtration: 100micron



## 07 LPG PUMP&ACCESSORIES



LYB-2000



V-belt Driven

**LYB-2000 Vane Truck Pumps, for LPG, NH3, is specially designed to perform in severe operating conditions such as high differential pressure, pump over speeding, poor suction conditions.**

### Application:

- LPG and NH3 bulk transfer
- LPG and NH3 bulk transfer
- Gas station refueling
- LPG cylinders filling

### Features:

- *Innovative cam design virtually eliminates cavitation*
- *New materials utilized in cam and blades and heavy duty bearings extend pump life*
- *Single mechanical, very easy seal replacement and maintenance*
- *Large diameter non-metallic points are suitable for higher pump speeds*



### Flow Rate

Speed	Differential Pressure	Flow Rate
800RPM	3.4Bar	323L/min
	6.9Bar	287L/min
650RPM	3.4Bar	261L/min
	6.9Bar	227L/min
500RPM	3.4Bar	189L/min
	6.9Bar	155L/min

### Technical Specification & Package Data

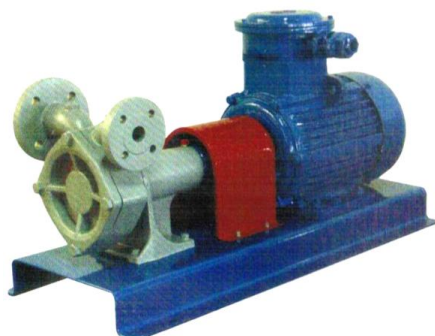
Inlet	NPT2"
Outlet	NPT2"
Max. Speed	800RPM
Motor	7.5KW
Temperature	-32℃ ~ 107℃
Max Working Pressure	28.6 Bar
Max. Differential Pressure	8.6 Bar
Internal Relief valve	Yes
Dimension	54*38*37cm
Net Weight	41kg
Gross Weight	50kg
Package	1PCS/Wooden Case

## 07 LPG PUMP&ACCESSORIES

### LPG TURBINE PUMP



LWB-150



Coupling Driven

**LWB-150 LPG Turbine Pump, for high differential pressure application using, for underground and above ground tank application.**

**Application:**

- Autogas dispensing
- Vaporize feed
- Bulk transferring
- LPG cylinders filling

**Features:**

**A cost effective replacement to submersible designs. Meeting multiple demands for LPG application. Whether allow or high flow rate with a high differential pressure, by underground and above ground tank application, LWB-150 pump is an idea pump for dual hose LPG dispensers. Continuous duty design Service ability is simple and cost effective**

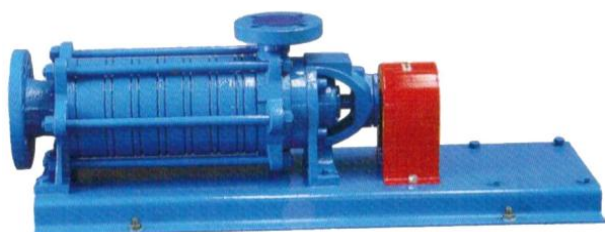


**Technical Specification & Package Data**

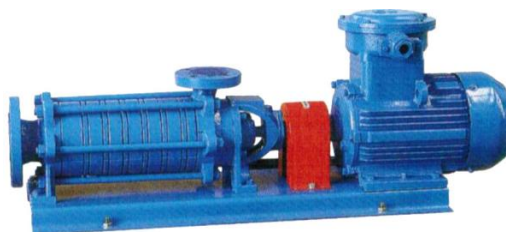
Model	Pump Only	Pump With Motor
Inlet	1.5"	
Outlet	1"	
Speed	60HZ 3450RPM or 50HZ 2880RPM	
Motor	5.5KW	
Temperature	-32℃-107℃	
Max Working Pressure	27.6 Bar	
Max. Differential Pressure	17.2Bar	
Dimension	Rr43*33*42cm	95*45*60cm
Net Weight	29kg	133kg
Gross Weight	35kg	153kg
Package	1pc/Wooden Case	

## DB-65 LPG Side Channel Multistage Pump

*The DB-65 multistage pump, centrifugal and side channel, is designed with 6 stages, having a horizontal configuration, shaft sealing by mechanical seal without cooling, for handling LPG(liquid gas), the liquids involving high-differential pressure, low NPSH conditions and aerated liquids up to 50% gas, such as pumping LPG from underground tanks.*



DB-65



Coupling Drive

### Application

- LPG cylinder filling
- Pumping LPG from underground tank
- Bulk filling operations
- Loading/unloading of LPG trucks and transport trailers
- Vaporizer feed pumps



### Technical Specification & Package Data

Model	DB-65w/Motor	DB-65without Motor
Direction of Rotation	Anti-clockwise facing the end of the pump drive shaft	
Max. Operating Pressure	40 bars at 120°C	
Speed	1450RPM	
Power	380V,50HZ,4KW/220V 50HZ 4KW	
Ambient Temperature	20°C ~ +60°C	
Number of Stage	6 stages	
Connecting Flanges	DIN 2501, PN 40 as per DIN 2501,PN 40	
Bearings	Sleeve bearing at the pump end, ball bearing at the drive end	
Lubrication	Plain bearing at the pump end lubricated by the pumped product, ball bearing at the drive end lubricated for life.	
Dimension	112*42*57cm	100*48*45cm
Net Weight	136 kg	64 kg
Gross Weight	148 kg	78 kg
Package	1pc/Wood Case	



## 07 LPG PUMP&ACCESSORIES

**LPG-2 flow meter is in construction of stainless steel bush and four-pistons positive displacement with check valve built in, with advantages of high reliability, good wearability, precise measurement, and long life.**



**LPG-2**

### Technical Specification & Package Data

Max Working Pressure	18 Bar
Flow Range	5-60L
Discharge rate per revolution	0.5L/R
Adjustable Minimum Volume	0.1%
Accuracy	±0.5%
Repeatability	≤0.17%
Material	Cast iron
Dimension	32*27*36cm
Net Weight	31kg
Gross Weight	35kg
Package	1PCS/CTN

**Check valve, filter, by pass pipe built in LPG separator**



**LPG Separator**

### Technical Specification & Package Data

Max. Working Pressure	25Bar
By Pass Pressure	40Bar
Strainer	0.08mm
Dimension	48*38*35cm
Net Weight	17.5kg
Gross Weight	23kg
Package	1PC/Wooden Case



**LPG Nozzle**

### Item No.:TSN-LPGN1

Operating Pressure: ≤2.2Mpa

Working environment temperature:-40~80℃

Inlet type:

A: female thread: 3/4"

B: female thread: 1"

C: M22\*1.5

## 08 JERRY CAN& SPARE FUEL TANK



5L



10L



20L



### Vertical Jerrycan

Model	TSC-L5	TSC-L10	TSC-L20
Item Description	Vertical Jerrycan 5L	Vertical Jerrycan 10L	Vertical Jerrycan 20L
Volume	5L	10L	20L
Thickness	0.6mm	0.8mm	0.8mm
Material	Cold-Rolled Steel		
Surface treatment	Powder Coated		
Size	24.3*11.6*31.3cm	30.4*13.1*39.6cm	36.9*16*46.7cm
Qty/Carton	8pcs	5pcs	4pcs
N.W.	1.2kg	2.45kg	3.55kg
Carton Size	50.5*48.9*32.8cm	67.8*32.6*42.2cm	67*37*49cm
Liquids type	Can be used to store gasoline,diesel,kerosene and ect.		
Accessory:	Fuel Spout		
UN No.	3AI/Y/250/YY/CN/BLXC CSCQ003-13	3AI/Y/250/YY/CN/BLXCCSCQ002-13	3AI/Y/250/YY/CN/BLXCCS CQ001-13



5L



10L



20L



### Flanged Welded Jerry can

Model	TSC-LB5	TSC-LB10	TSC-LB20
Item Description	Flanged Welding Jerrican 5L	Flanged Welding Jerrican 10L	Flanged Welding Jerrican 20L
Volume	5L	10L	20L
Thickness	0.6mm		
Material	Cold-Rolled Steel		
Surface treatment	Powder Coated		
Size	16.5*34.5*19.5cm	16.75*34.7*31cm	34.83*17*45.7cm
Qty/Carton	8pcs	5pcs	4pcs
N. W.	1.75kg	2.25kg	3.05kg
Carton Size	71.5*70*21.5cm	73*36*30cm	72*37.5*49cm
Liquids type	gasoline,diesel,kerosene.		
Accessory	Fuel Spout		

## 08 JERRY CAN& SPARE FUEL TANK



5L



10L



20L



### PANDA STYLE HORIZONTAL JERRICAN

Model	TSC-W5	TSC-W10	TSC-W20
Item Description	Horizontal Jerrican 5L	Horizontal Jerrican 10L	Horizontal Jerrican 20L
Volume	5L	10L	20L
Thickness	0.8mm		
Material	Cold-Rolled Steel		
Surface treatment	Powder Coated		
Size	40*24.6*12.25cm	39.5*24.5*18.7cm	42.8*30.4*25.8cm
Qty/Carton	8pcs	6pcs	4pcs
N.W.	1.7kg	2.2kg	2.95kg
Carton Size	53.5*42*63.5cm	53.5*42*65cm	64.5*45*54cm
Liquids type	Can be used to store gasoline,diesel,kerosene and ect.		
Accessory:	Fuel Hose		
UN No	3A1/Y/250/YY/CN/BLX CCSCQ001-14	3A1/Y/250/YY/CN/BLX CCSCQ005-13	3A1/Y/250/YY/CN/BLX CCSCQ004-13



5L



10L



20L



### STRAIGHT PULL HORIZONTAL JERRICAN

Model	TSC-ZLW5	TSC-ZLW10	TSC-ZLW20
Item Description	Horizontal Jerrican 5L	Horizontal Jerrican 10L	Horizontal Jerrican 20L
Volume	5L	10L	20L
Thickness	0.8mm		
Material	Cold-Rolled Steel		
Surface treatment	Powder Coated		
Size	38.7*28.7*12.46cm	38.7*28.7*16.46cm	38.7*28.7*26.46cm
Qty/Carton	8pcs	6pcs	4pcs
N. W.	2.26kg	2.74kg	3.8kg
Carton Size	61.5*41*54.5cm	61.5*41*57.8cm	61.5*41*56cm
Liquids type	Can be used to store gasoline,diesel,kerosene and ect.		
Accessory	Fuel Hose		



## 08 JERRY CAN& SPARE FUEL TANK



5L



10L



20L

### STAINLESS JERRICAN

Model	TSC-LS5	TSC-LS10	TSC-LS20
Item Description	Stainless Jerrican 5L	Stainless Jerrican 10L	Stainless Jerrican 20L
Volume	5L	10L	20L
Thickness	0.7mm	0.8mm	0.8mm
Material	Stainless Steel		
Surface treatment	Polishing		
Size	40.7*24.3*14.2cm	36*25.5*21cm	36*25.5*38cm
Qty/Carton	8pcs	6pcs	4pcs
N. W.	1.85kg	2.16kg	4kg
Carton Size	52*42.5*63.8cm	52*42.6*69cm	55*38.5*78.5cm
Liquids type	Can be used to store Water Juice,Wine,gasoline,diesel,kerosene and ect.		
Accessory	Fuel Hose		

### 1L Fuel Can



#### 1L Fuel Can

Model	TSC-L1
Volume	1L
Thickness	0.8mm
Material	Cold-Rolled Steel
Surface treatment	Powder Coated
Size	Φ90mm*20.5mm
Qty/Carton	20pcs
N.W.	410g
Carton Size	60.5*42.5*20.5cm
Liquids type	gasoline,diesel and kerosene
Accessory	Fuel Hose
UN No	3A1/Y/250/YY/CN/LD CCSCQ001-17



### Rolling Jerry Can



#### ***TSC-RJC Plastic 53 liter manual pump rolling Jerry Can***

***Easily transportable rolling jerry can.***

***Made of high-density polyethylene, rust and shock resistant.***

***Siphon handle makes spills and overflows a thing of the past.***

***Output: 7.5 liters per minute in siphon mode.***



## 08 JERRY CAN& SPARE FUEL TANK

***TSC-MPT Tanks made in roto-molded linear polyethylene, ideal for the refueling of small and light operating vehicles and crafts.***



Model	TSC-MPT1
Volume	120L /32 US Gallon
Thickness	4mm
Technology &Material	roto-molded linear polyethylene
G.W.	24KGS
Carton Size	57*47*108cm (1pcs)
Liquids type	Gasoline/diesel /kerosene
Accessory	Rotary pump/ delivery Hose/ PP manual nozzle



Model	TSC-MPT2
Volume	120L /32 US Gallon
Thickness	4mm
Technology &Material	roto-molded linear polyethylene
G.W.	26KGS
Carton Size	57*47*108cm (1pcs)
Liquids type	/diesel /kerosene
Accessory	12VDC pump/ delivery Hose/ PP manual nozzle



Model	TSC-MPT3
Volume	120L /32 US Gallon
Thickness	4mm
Technology &Material	roto-molded linear polyethylene
G.W.	27KGS
Carton Size	57*47*108cm (1pcs)
Liquids type	/diesel /kerosene
Accessory	220VAC pump/ delivery Hose/ PP manual nozzle



## 09 HOSE REEL & ACCESSORIES



Length range: 10/15/20 meters

Model	Spout size	Inlet barb	Seal material	Liquid type	Nozzle holder
THR-19	φ19mm	φ19mm	Viton	Diesel/Gasoline/Kerosene	On request
THR-25	φ25mm	φ25mm	Viton	Diesel/Gasoline/Kerosene	On request



**TUBE:** FLEXIBLE SMOOTH OIL RESISTANT NBR/CPE COMPOUND

**COVER:** BLACK WEATHER AND OZONE RESISTANT

**APPLICATION:** FOR THE TRANSFER OF DIESEL/GASOLINE

Model	ID	OD	WP	Liquid type	Coil
TOH-19	φ19mm	φ28mm	10Bar	Diesel/Gasoline/Kerosene	50m
TOH-25	φ25mm	φ34mm	10Bar	Diesel/Gasoline/Kerosene	50m



# 09 HOSE REEL & ACCESSORIES



## Adaptor Swivels

Size:

A: male: 3/4" female: 3/4"  
 B: male: 1" female: 3/4"  
 C: male: 3/4" female: 1"  
 D: male: 1" female: 1"  
 E: male: 1.5" female: 1.5"



## Hose Connection Swivel

Size: 3/4" 1"



## Rotary Swivel

Size: 3/4" 1"



## Universal Swivel

Model: US-1

Size: 3/4" 1"



## Universal Swivel

Model: US-2

Size: 3/4" 1"



## Universal Swivel

Model: US-3

Size: 3/4"

## 09 HOSE REEL & ACCESSORIES



**Stainless elbow**  
Model:EB-SS  
Size: male 1" female:1"



**Stainless Reducing Bushing**  
Model:RB-SS  
Size: male 3/4" female:1"



**Brass Non-return Valve**  
Model:BNV-SS  
Size: female:1"



**Stainless Fitting**  
Model:SF-24  
Size: female:1"



### Break-away

Model	Size	Pull force
TBA19	3/4"	300lbs
TBA25	1"	350lbs



**Aluminum Quick connectors**  
Size:DN15-150





# 10 OIL PUMP&NOZZLE



**JYB-1 Electric Gear Oil Pump**

*JYB-1 electric gear oil pump is designed for various requirements of pumping oils & lubricants, with the construction of die-cast aluminum pump body, by-pass valve, sintered steel gears, mechanical seal on the motor shaft, with the advantage of quiet operation, high suction capacity and compact design.*

Flow Rate	9-15L/min
Pressure	12Bar
Power	AC220V,50HZ,750W Single Phase AC380V,50HZ,900W,Three Phase available
Vacuum	0.032MPa
Dimension	46*20*25cm



**JYB-2 Electric Gear Oil Pump**

Power	750W	1100W
V/Hz	220V/50Hz	220V/50Hz
In/outlet	BSP3/4"	BSP1"
Max.Flow	40LPM	50LPM



**JYQ-1 Oil Transfer Nozzle**

Inlet:BSPF/NPT 1/2"  
Max. Flow: 15L/min  
Working Pressure:0.7Mpa



**JYQ-M-1 Oil Transfer Nozzle With Meter**

Inlet:BSPF/NPT 1/2"  
Max. Flow: 15L/min  
Working Pressure:0.7Mpa



# 10 OIL PUMP&NOZZLE

## JYQ-DM-2 Oil Transfer Nozzle With Digital Meter



### Oil Nozzle With Digital Meter

Inlet: 1/2"

Flow range: 1-30LPM

Pressure range: 0.5-70 Bar /  
7-1015psi

Temperature Max.: 60°C/140°F

Viscosity: 8-5000mPas

Power: 2\*AAA alkaline battery

Rigid tube available

## JYQ-MM-2 Oil Transfer Nozzle With Mechanical Meter



### Oil Nozzle With Mechanical dail Meter

Flow range: 1-30LPM

Pressure range: 0.5-70 Bar /  
7-1015psi

Temperature Max.: 60°C/140°F

Viscosity: 8-5000mPas

Rigid tube available



Flexible Spout (auto/manual anti-drip valve)



Rigid Spout (auto/manual anti-drip valve)

## 10 OIL PUMP&NOZZLE



### **Pneumatic Oil Pump**

Type A

Pressure ratio:3:1

Max air inlet pressure: 5-8Bar-115PSI,

Max Fluid Pressure: 24bar/350PSI

Type B

Pressure ratio:5:1

Max air inlet pressure: 5-8Bar/115PSI,

Max Fluid Pressure: 40bar/580PSI

Type C

Pressure ratio:50:1

Max air inlet pressure: 5-8Bar/115PSI,

Max Fluid Pressure: 400bar/5800PSI

# 11 DEF PUMP& CHEMICAL PUMP



AdBlue®/DEF/AUS32 Transfer Pump

**Item No.: TSO-ADB**

Power: 400W V/Hz:220V/50Hz Amps:1.92A

Max. Flow:40L/min Rev.:2900rpm

Pressure:1.7Bar In/outlet size: BSPP1"

Fluids type: AdBlue®/DEF/AUS32/Water

IP:54



AdBlue®/DEF/AUS32 Transfer Pump

**Item No.: TSO-ADB-2**

Power: 400W V/Hz:220V/50Hz Amps:1.92A

Max. Flow:35L/min Rev.:2900rpm

Pressure:1.7Bar In/outlet size: rotary barb Ext.Dia:19mm

Fluids type: AdBlue®/DEF/AUS32/Water

IP:54



AdBlue®/DEF/AUS32 Transfer Pump

**Item No.: TSO-ADB-3**

Power: 280W V/Hz:220V/50Hz Amps:1A

Max. Flow:20L/min Rev.:2900rpm

Pressure:1.7Bar In/outlet size: barb: BSPP3/4\*19mm

Fluids type: AdBlue®/DEF/AUS32/Water / clean detergent

**Chemicals on request**

IP:54



AdBlue®/DEF/AUS32 Transfer Pump

**Item No.: TSO-ADB-4**

Power: 400W Voltage:DC12V/24V

Max. Flow:30L/min(12V) 35L/min (24V)

Pressure:1.7Bar In/outlet size: BSPP1"

Fluids type: AdBlue®/DEF/AUS32/Water /

**Chemicals on request**

IP:54



# 11 DEF PUMP& CHEMICAL PUMP

*TSO-ADB-5 pump with DC motor is designed for water transferring in yacht & RV, low noise and durable. Also chemical version is available*



AdBlue®/DEF/AUS32 Transfer Pump

**Item No.: TSO-ADB-5**

Power: 150W V&A:DC12V Amps:6A DC24V Amps:3A

Max. Flow:20L/min

Pressure:1.7Bar In/outlet size: barb: BSPP3/4\*19mm

Fluids type: AdBlue®/DEF/AUS32/Water /

**Chemicals on request**

IP:54



EX-proof AdBlue®/DEF/AUS32 Transfer Pump  
for dispenser

**Item No.: TSO-ADEX**

Type:centrifugal pump

Power: 370W

V/Hz:220V/50Hz

Inlet barb:19mm/25mm outlet:1"

Max. Flow:30L/min

Fluids type: AdBlue®/DEF/AUS32/Coolant

## IBC FITTINGS



# 11 DEF PUMP& CHEMICAL PUMP

Customized dispenser for AdBlue®/DEF/AUS32/Coolant, anti-corrossion powder-coating surface, easy to install, reliable& stable.



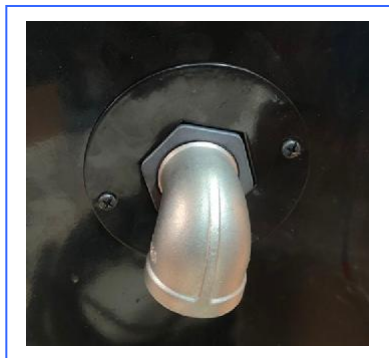
Dispenser for AdBlue®/DEF/AUS32  
**Item No.: TSD-AD1**  
Pump Type:Diaphragm pump  
Meter Type: Oval gears  
Power: 400W  
V/Hz:220V/50Hz    DC12V  
Inlet barb:19mm/25mm    outlet:1”  
Max. Flow:35L/min  
Fluidstype:AdBlue®/DEF/AUS32/Coolant  
L×W×H:48×48×55cm



Dispenser for AdBlue®/DEF/AUS32  
**Item No.: TSD-AD140**  
Pump Type:Diaphragm pump  
Meter Type: Oval gears  
Power: 400W  
V/Hz:220V/50Hz    DC12V  
Inlet barb:19mm/25mm    outlet:1”  
Max. Flow:35L/min  
Fluidstype:AdBlue®/DEF/AUS32/Coolant  
L×W×H:48×28×140cm



Hose Hanger



90° Outlet



Teflon Coating Flow meter for AdBlue®/DEF/AUS32	
Model	MJ-65
Flow Rate	5-90L/min
Discharge rate per revolution	0.5L
Adjustable Minimum Volume	0.07%
Accuracy	±0.2%
Repeatability	≦0.07%

# 11 DEF PUMP& CHEMICAL PUMP



**IBC tank/barrel capable pumps with preset meter for AdBlue®/DEF/AUS32/Coolant, anti-corrosion powder-coating surface, easy to install, reliable & stable. Add on ticket printer on**

Dispenser for AdBlue®/DEF/AUS32

**Item No.: TSD-PSTPT**

Pump Type: Diaphragm pump

Meter Type: Oval gears

Power: 400W

V/Hz: 220V/50Hz DC12V

Inlet barb: 19mm/25mm outlet: 1"

Max. Flow: 35L/min

Fluid type: AdBlue®/DEF/AUS32/Coolant

L×W×H: 36×38×45cm





# 11 DEF PUMP& CHEMICAL PUMP

**IBC tank/barrel capable pumps for AdBlue®/DEF/AUS32/Coolant, anti-corrossion powder-coating surface, easy to install, reliable& stable.**



AdBlue®/DEF pump with preset meter

**Item No.: TSD-PST**

Pump Type:Diaphragm pump

Meter Type: Oval gears

Power: 400W

V/Hz:220V/50Hz DC12V

Inlet barb:19mm/25mm outlet:1"

Max. Flow:35L/min

Fluidstype:AdBlue®/DEF/AUS32/Coolant

Come with IBC tank hanger



AdBlue®/DEF pump with preset meter

**Item No.: TSD-PST-F**

Pump Type:Diaphragm pump

Meter Type: Oval gears

Power: 400W

V/Hz:220V/50Hz DC12V

Inlet barb:19mm/25mm outlet:1"

Max. Flow:35L/min

Fluidstype:AdBlue®/DEF/AUS32/Coolant

Come with IBC tank hanger



AdBlue®/DEF pump with turbine meter

**Item No.: TSD-E24**

Pump Type:Diaphragm pump

Meter Type: Oval gears

Power: 400W

V/Hz:220V/50Hz DC12V

Inlet barb:19mm/25mm outlet:1"

Max. Flow:35L/min

Fluidstype:AdBlue®/DEF/AUS32/Coolant

# 11 DEF PUMP& CHEMICAL PUMP

**Barrel pumps for AdBlue®/DEF/AUS32/Coolant, anti-corrosion powder-coating surface, easy to install, reliable& stable.**



**AC to DC adaptor**



**DC power cable with battery**

Electric AdBlue®/DEF/AUS32 barrel pump kit

**Item No.: TSD-PST**

Motor: DC Brush motor

V/Hz: 110-220V 60/50Hz DC12V

Max. Flow: 18.9L/min (AC) 18.4 L/min (DC)

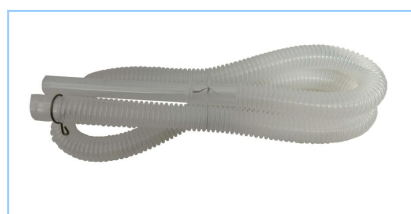
Fluids type: AdBlue®/DEF/AUS32/Coolant

C/W: 2 Mtrs corrugated hose/telescopic pipe

Manual Nozzle

Duty cycle: 15mins ON/OFF

2" bung adaptor



Manual AdBlue®/DEF/AUS32 barrel pump kit

**Item No.: TSD-PM**

Fluid type: AdBlue®/DEF/AUS32/Coolant

C/W: 2 Mtrs corrugated hose/telescopic pipe

2" bung adaptor



Quick Coupling Suction Tube for IBC Tank or Drum

**Item No.: TSD-TB**

# 11 DEF PUMP& CHEMICAL PUMP



Stainless steel automatic nozzle

**Item No.: TSN-S**

Inlet: BSP3/4"

Dia. Of Spout: 15.5 or 19mm

Max Flow: 40L/min



Stainless steel automatic nozzle with magnetic tank adaptor

**Item No.: TSN-MS**

Inlet: BSP3/4"

Dia. Of Spout: 19mm

Max Flow: 40L/min



Teflon Coating automatic nozzle

**Item No.: TSN-TF**

Inlet: BSP3/4"

Dia. Of Spout: 15.5/19mm



Hard Anodized automatic nozzle

**Item No.: TSN-HN**

Inlet: BSP3/4"

Dia. Of Spout: 15.5/19mm



Anti-corrosive Teflon coated body



Anti-corrosive hard-anodized body



# 11 DEF PUMP& CHEMICAL PUMP



Automatic nozzle

**Item No.: TSN-SP**

Inlet: rotary barb dia.: 19mm

Dia. Of Spout: 15.5mm or 19mm

Max Flow: 20 L/min      40L/min



Automatic nozzle

**Item No.: TSN-SP2**

Inlet barb: 19mm"

Dia. Of Spout: 15.5 or 19mm

Max Flow: 45L/min



Automatic nozzle with magnet on frame

**Item No.: TSN-SP2-M**

Inlet barb: 3/4"

Dia. Of Spout: 15.5 or 19mm

Max Flow: 45L/min



Automatic nozzle with turbine meter

**Item No.: TSN-SPM**

Inlet: 3/4"

Dia. Of Spout: 15.5 or 19mm

Max Flow: 45L/min



Stainless Rotary Barb Fitting

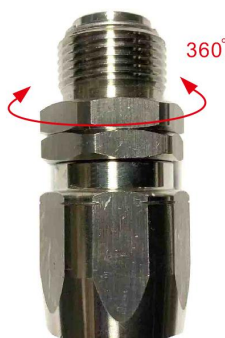
**Item No.: XZBT-SS**

Thread: 3/4"

Dia. Of Barb: 19mm

Material: SS304

O-ring: Viton



Stainless Rotary Hose Connector

**Item No.: XZHJ-SS**

Thread: 3/4"

Fit for 3/4" hose

Material: SS304

O-ring: Viton

## 11 DEF PUMP& CHEMICAL PUMP



Manual nozzle

**Item No.: TSN-ADM-W**

Inlet: barb dia.: 19mm

Dia. Of Spout: 19mm

Max Flow: 40L/min

Fluids type: AdBlue®/DEF/AUS32/Water



Manual nozzle

**Item No.: TSN-ADM-B**

Inlet: barb dia.: 19mm

Dia. Of Spout: 19mm

Max Flow: 40L/min

Fluids type: AdBlue®/DEF/AUS32/Water



Nozzle pocket

**Item No.: TS-PKT**

Color: white/black

# 12 DIESEL FUEL DISPENSERS



## Model:TSD-SP2

Voltage:DC12/24V AC220V/50Hz  
Flow range:5-65L/MIN (after nozzle )  
Meter accuracy:  $\pm 0.3\%$   
Meter Repeatability: $\leq 0.05\%$   
Solenoid valve: 2 ways  
Ticket printer (English/Spanish/etc)  
Filter: washable  
Fluids type: Diesel/Kerosene  
L×W×H :45×44×55cm  
come with auto nozzle

## Features



**Automatic Nozzle**



**Ticket Printer**



**Solenoid Valve**



**Piston Flowmeter**



**Washable filter**



# 12 DIESEL FUEL DISPENSERS



**The TSD-A1 mini diesel fuel dispenser, available with AC/ DC pump, counting by oval gear flow meter , which can be connected with vehicle battery as power supply in outdoor. Ideal for refueling of boats, agricultural machines, mining/construction machines, fuel depots, etc.**



## Model:TSD-A1

Voltage:DC12/24V AC220V/50Hz

Flow range:5-55L(by 220V motor) (\*tested without nozzle)

Flow range:5-65L(by DC12/24V motor) (\*tested without nozzle)

Meter accuracy:  $\pm 0.5\%$  (oval gear meter)

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Kerosene

L×W×H 35×36×30.5cm

come with auto nozzle

**AdBlue<sup>®</sup> version  
is available  
on request**

## Features



## On request



## On request



## On request



## 12 DIESEL FUEL DISPENSERS

*The TSD-B1 diesel fuel dispenser, available with AC/ DC pump, counting by displacement flow meter , which can be connected with vehicle battery as power supply in outdoor. Ideal for refueling of boats, agricultural machines, mining/construction machines, fuel depots, etc.*



**Model:TSD-B1**

Voltage:DC12/24V AC220V/50Hz

Flow range:5-75L (\*tested without nozzle)

Meter accuracy:  $\pm 0.3\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Kerosene

L×W×H 46×40×55cm

come with auto nozzle

**AdBlue<sup>®</sup> version  
is available  
on request**

### Features



### On request



### On request



### On request



## 12 DIESEL FUEL DISPENSERS

*The TSD-B2 diesel fuel dispense kit come with hose reel, available with AC/ DC pump, counting by displacement flow meter , which can be connected with vehicle battery as power supply in outdoor. Ideal for refueling of boats, agricultural machines, mining/construction machines, fuel depots, etc.*



### Model:TSD-B2

Voltage:DC12/24V AC220V/50Hz

Flow range:5-75L (\*tested without nozzle)

Meter accuracy:  $\pm 0.3\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Kerosene

L×W×H 92×40×65cm

come with auto nozzle&hose reel (10mtrs 1" hose)

### Features

### On request

### On request

### On request



*Customized design  
is available on request*

### Model:TSDZK200B

Flow range:5-60L

Voltage: DC12V AC220V/50Hz

Meter accuracy:  $\pm 0.2\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Gasoline/Kerosene

L×W×H 45×44×55cm



# 12 DIESEL FUEL DISPENSERS



**140LPM**  
SUPER FLOW



## **Model:ETD-SF140**

Voltage: AC220V/50Hz

Flow range:30-140L/MIN

Meter accuracy:  $\pm 0.5\%$

Meter Repeatability:  $\leq 0.17\%$

Solenoid valve: 2 ways (1.5")

Ticket printer (English/Spanish/etc)

Filter: 1.5"washable filter

Fluids type: Diesel/Kerosene

come with 1.5"auto nozzle

## **Feathers**



**1.5"Automatic Nozzle**



**Ticket Printer**



**Solenoid Valve**



**1.5"OGM Flowmeter**



**1.5"Washable filter**

## 12 DIESEL FUEL DISPENSERS



**Model:TSD-135A**

Flow range:5-70L

Voltage: AC220V/50Hz

Meter accuracy:  $\pm 0.2\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Gasoline/Kerosene

L×W×H 68.5×42×135cm

*Customized design  
is available on request*



**Model:TSD-135B**

Flow range:5-70L

Voltage: AC220V/50Hz

Meter accuracy:  $\pm 0.2\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Gasoline/Kerosene

L×W×H 70×42×135cm

*Customized design  
is available on request*



**Model:TSD-160A**

Flow range:5-70L

Voltage: AC220V/50Hz

Meter accuracy:  $\pm 0.2\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Gasoline/Kerosene

L×W×H 92×44×160cm

*Customized design  
is available on request*

## 12 DIESEL FUEL DISPENSERS



**Model:TSD-160B**

Flow range:5-70L

Voltage: AC220V/50Hz

Meter accuracy:  $\pm 0.2\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Gasoline/Kerosene

L×W×H 92×44×160cm

*Customized design  
is available on request*



**Model:TSD-190A**

Flow range:5-70L

Voltage: AC220V/50Hz

Meter accuracy:  $\pm 0.2\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Gasoline/Kerosene

L×W×H 85×42×190cm

*Customized design  
is available on request*



**Model:TSD-190A Heavy duty**

Flow range:**5-100L**

Voltage: AC220V/50Hz

Meter accuracy:  $\pm 0.2\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Gasoline/Kerosene

L×W×H 85×42×160cm

*Customized design  
is available on request*



## 12 DIESEL FUEL DISPENSERS



**Model:TSD-180B**

Flow range:5-80L

Voltage: AC220V/50Hz

Meter accuracy:  $\pm 0.2\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Gasoline/Kerosene

L×W×H 100×44×180cm

*Customized design  
is available on request*



**Model:TSD-180C**

Flow range:5-80L

Voltage: AC220V/50Hz

Meter accuracy:  $\pm 0.2\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Gasoline/Kerosene

L×W×H 100×44×180cm

*Customized design  
is available on request*



**Model:TSD-170A**

Flow range:5-65L

Voltage: AC220V/50Hz

Meter accuracy:  $\pm 0.2\%$

Meter Repeatability: $\leq 0.05\%$

Fluids type: Diesel/Gasoline/Kerosene

L×W×H 70×48×170cm

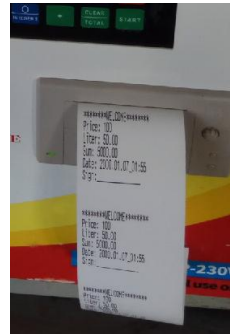
*Customized design  
is available on request*

## 12 DIESEL FUEL DISPENSERS

**Most of our diesel fuel dispensers can add APP function, so user's who have Wechat or Alipay can connect the machine with their mobile phone by scan the QR code where can monitor the refueling data on the mobile phone. Also it can be set up and be controlled by using bluetooth. A refueling records is available for accounting.**

**"No-cash" self-service is available. Before the driver is going to refueling the car, a payment QR code on the machine can be scanned to charge the money in advance by Wechat Payment or Alipay.**

**Every machine can add ticket printer as option.**



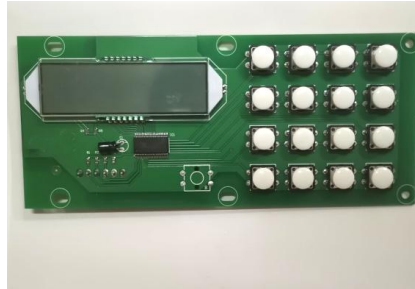
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### Control Unit Parts



**Mainboard1**



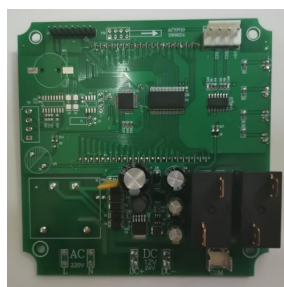
**Keyboard**



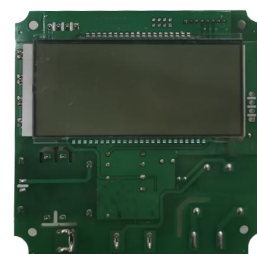
**LCD Display**



**3in 1 Mainboard**



**Mainboard2**



**Mainboard**

## 13 MINI GAS STATION

**Mini fuel site is a device complete with storage tank and dispensing system which is designed for vehicle refueling, fuel transportation. Mounted with full set of safety devices, level viewer, lifting lugs or forklift pockets make it easy to move. Ideal for construction site, farmland, mining industry, etc.**

**We offer both diesel /gasoline/AdBlue®/combined version. Size from 600L-5000L . Customized designed are more than welcome!**



*Customized design  
is available on request*

**A mini gas-station in country side designed for gasoline resale to motor bikes, diesel to tractors or small vehicles. Very less cost for maintenance to this small station.**



*Customized design  
is available on request*

**AdBlue® site in a standard gas-station**



## 13 MINI GAS STATION



*Customized design  
is available on request*

### **Diesel Station**

**Capacity:1000L-5000L**

Flow range:**5-75L**

Voltage: DC12/24V AC220V/50Hz

Meter accuracy:  $\pm 0.3\%$

Meter Repeatability:  $\leq 0.05\%$

Fluids type: Diesel /Kerosene

L×W×H based on capacity



*Customized design  
is available on request*

### **Gasoline Station**

**Capacity:1000L-2000L**

Flow range:**5-45L**

Voltage: DC12/24V AC220V/50Hz

Meter accuracy:  $\pm 0.3\%$

Meter Repeatability:  $\leq 0.05\%$

Fluids type: Diesel /Kerosene

L×W×H based on capacity

# 13 MINI GAS STATION

## Customized stations



## 13 MINI GAS STATION

### Safety devices & details for the tank

*We always consider safety as priority. Beside the reinforced tank structure, we offer more devices and materials for the tank to double ensure the safety use*



**EX-proof vent** are installed on the top of vent pipes from underground or above ground fuel storage tanks. The vent cap and internal wire screen are designed to protect the tank vent lines against intrusion and locate form water, debris or insects. In emergency cases, for example when there is fire around the tank, this device will stop the fire burn into the tank, meanwhile, the boosted air can release from the tank by this vent to avoid blasting



**Emergency Vent Valve** are installed on the top of vent pipes from underground or above ground fuel storage tanks. The mushroom shape cap can stop rain water debris or insects. When emergency cases happened, for example: fire or crash on the tank, the on-way valve inside can quickly help the tank to release the boosted air inside.



**Pressure Vacuum Vent** are installed on the top of vent pipes from underground or above ground fuel storage tanks. The vent cap and internal wire screen are designed to protect the tank vent lines against intrusion and locate form water, debris or insects. A normally closed poppet in the valve opens at a predetermined pressure or vacuum setting to allow the tank to vent.



## 13 MINI GAS STATION

### Ex-proof material (special aluminum-magnesium alloy)

*Ex-proof material is made of special aluminum-magnesium alloy, and shaped by honey-comb structure. It can suddenly absorb heat, reduce vapor release  $\geq 40\%$ , can effectively reduce explosion effects when the tank in emergency situation.*



Tested by CSEI (Test 1)

10L barrel with 3 liters unleaded gasoline burn in open field, the left one without stuffing ex-proof material, the highest flame reached approximately 2 meters.



# 13 MINI GAS STATION



## Tested by CSEI (Test 2)

1000L steel tank loaded with 200 liters unleaded gasoline, ignited the vapor vent, tank are stuffed with ex-proof material, the highest flame reached appropriately 8cm, and lasted for 5 minutes.





# 13 MINI GAS STATION



## Tested by CSEI (Test 3)

1000L steel tank loaded with 900 liters gasoline, 2 ex-proof vents are installed on the top of vent pipes, tank are stuffed with ex-proof material, around the tank body are wooden pieces mixed with diesel oil, ignited in the open field and burning lasted for 60 minutes.





# 14 ACCESSORIES



**Nozzle Holder**  
Aluminum/Plastic



**Solenoid Valve**  
Male/Female thread /Flange  
connected



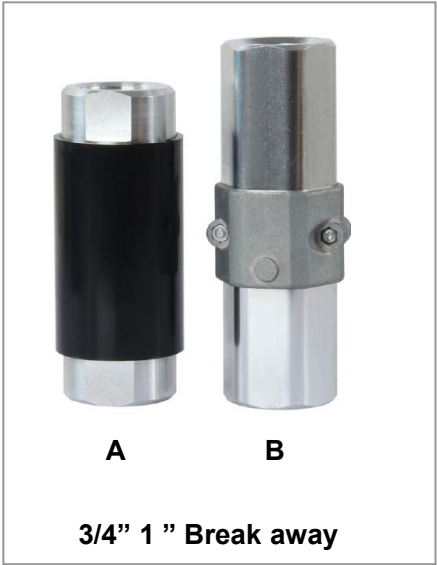
**Flow Viewer**  
3/4" or 1"



**1.5/2" Emergency Valve**



**1.5/2" Check Valve**



**3/4" 1" Break away**



**Flexible Pipe**



**3/4" 1" Discharge Hose**



**Non-return valve with mesh**

## 14 ACCESSORIES



**Lockable elbow**



**Flow meter fitting**



**Flow meter fitting**



**ZYB50 Pump**



**Spill Container**



**3/4" ×15meters  
1" ×15meters**

**Hose Reel**



**EX-motors**



**Submersible Pump**



**Clamp rings**

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