

FUEL & OIL

PIUSI

USA ®

Fluid Handling Innovations

FUEL AND OIL SOLUTIONS CATALOG

Acterra Group, Inc.
800.289.7371 | www.acterragroup.com

COMPANY PROFILE **S**INCE 1953



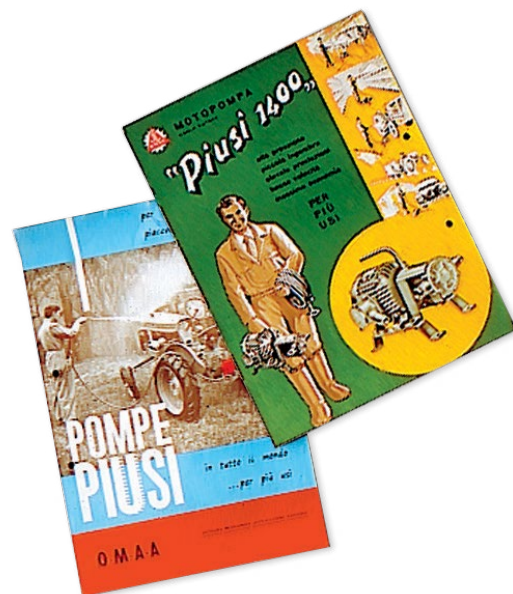
The **Piusi USA team**, located in **Fort Lauderdale, FL**, serves the United States, Canada, and Latin American markets. This **extension of the Piusi SPA family** in the United States devotes time and effort in **fortifying the bond between American consumers and Italian ingenuity**.

Piusi was **established in 1953** in Suzzara, in the province of Mantua (Italy). They started as a mechanical engineering workshop serving the agricultural industry. The company soon made a name for itself as a **manufacturer of strong and easy-to-use products suitable for a range of “many uses” (più-usi)**.

Research is constantly focused on **finding innovative solutions**, the upshot of the genius in Italian excellence. This has led Piusi to set up **modern offices and a manufacturing facility** which includes an automated warehouse on a covered surface area of 270,000 ft², part of a larger area covering 473,000 ft².

Piusi boasts an **efficient and dynamic corporate structure** with **200 employees**, an **in-house research & development laboratory**, and an **extensive sales and spare-parts network**, further strengthened in 2009 with the opening of a company for the North and Central American market based in Florida - USA.

Today, Piusi SPA is a **major player in over 120 different countries**, with a **broad range of intelligent, professional and easy-to-use solutions for transferring and measuring fuels, lubricants, and liquids**.



MADE IN ITALY

Since 1953

FUEL TRANSFER PUMPS

	Details/Flow Rate	Fluids	Page
ROTARY HAND PUMP	10 GPM	D O	p. 4
PIUSIBOX	12 GPM	D	p. 5
BATTERY KIT	12 GPM	D	p. 5
CARRY 3000	12 GPM	D	p. 5
FILTROLL	14 GPM	D	p. 6
PITSTOP	15 GPM	D	p. 7
EX50 - UL/CSA-LISTED	15 GPM	G D K	p. 8
EX75 - UL/CSA-LISTED	20 GPM	G D K	p. 9
PANTHER 56	15 GPM	D	p. 10
BI-PUMP	25 GPM	D	p. 10
E120	30 GPM	D	p. 10

FUEL NOZZLES

SELF 3000	Manual	D G Lo	p. 11
UL-Nozzle	Automatic	D G K	p. 11
A60	Automatic	D	p. 11
A120	Automatic	D	p. 11
A120-UL	Automatic	D G K	p. 11

FILTERING EQUIPMENT

FILTERS	15 / 25 / 40 GPM Filters	D G	p. 12
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FLOW & PULSE METERS

Mechanical: K33 - K44 - K700M	Nutative Disc / Oval Gear	D G Lo	p. 13
Digital: K24 Aluminum	In-line Turbine	G D K	p. 14
Digital: K200 - K400 - K600/3	Oval Gear	D O	p. 15
Digital: K600 B/3 - K600/4 - K900 - K700	Oval Gear	D O	p. 16

MANAGEMENT SYSTEMS

MC BOX/SELF SERVICE 1.5	for up to 60 or 120 users	Any Fluid*	p. 17
MC BOX/SELF SERVICE 2.0	for up to 1000 users	Any Fluid*	p. 18
CUBE 56 - SS K44 DISPENSERS	15 GPM / 30 GPM	D	p. 19
CUBE 70 MC - SS FM DISPENSERS	15 GPM / 30 GPM	D	p. 20
SELF SERVICE 1.0 - REMOTE DISPLAY	1.0 Software packages	Any Fluid*	p. 21

MONITORING SYSTEMS

OCIO LEVEL INDICATOR - Hardware	up to 30 cSt	D O W	p. 22
OCIO DESK - Software	for up to 12 tanks	Any Fluid*	p. 22

OIL & LUBE EQUIPMENT

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VISCOMAT - FLOWMAT	2.4 / 7 GPM pumps	O	p. 24-25
EASYOIL - K400	Metered Nozzles	O	p. 26
K500 PRESET - NEXT/2	Metered Nozzles	O	p. 27

* Fluid compatibility depends on the type of pulse meter

FLUIDS

DIESEL	D
GASOLINE	G
KEROSENE	K
OIL	O
LIGHT OIL	Lo
GREASE	Gr
WATER	W

10 GPM

DIESEL TRANSFER PUMP





ROTARY HANDPUMP

The new Rotary Hand Pump for diesel and oil is self-priming and constructed with stainless steel and technopolymer to guarantee safe use and a long service life. This manually operated transfer pump delivers diesel or oil at a rate of 10 gallons per 100 revolutions and comes with suction tube and bung adapter available in different thread sizes.

- 10 gallons per 100 revolutions.
- Self-priming.
- Ergonomic hand crank.
- Used to transfer diesel or oil directly from drums or small tanks.
- Cost effective, manual solution for diesel and oil transfer.

Available with 9.8 ft. hose and nozzle



Part #	Description	Fluids (page 3)	Hose Length	Hose Diameter Ø	Inlet - Outlet NPT	Weight lb.	Packaging in.
Foo332510	Diesel and Oil Rotary Hand Pump (no hose)	 	-	3/4"	2"	4.8	15 x 7 x 6
Foo332530	Diesel and Oil Rotary Hand Pump w/hose	 	9.8 ft.	3/4"	2"	7	12 x 12 x 7

12 GPM

DIESEL TRANSFER PUMPS

PIUSIBOX

The Piusibox is a self-contained, portable diesel refueling solution packed in a protective carrying case. This handy, on-the-go transfer kit includes a 12V Bypass 3000 pump, delivery and suction hoses, manual nozzle, and the Piusi Vantage Valve which locks shut after fueling to prevent spillage. This unit also comes with a particulate filter and gloves for added equipment and user protection.

- **12 GPM.**
- Available in both **12V DC** and **24V DC**.
- Solution for on-the-go, emergency on-site fueling.
- Used to transfer diesel directly from drums or small tanks.
- Particulate filter included (FOO611000).
- Best suits the agricultural, construction and marine industries where remote machinery is used. Perfect for OTR, and commercial refueling.



BATTERYKIT

The Battery Kit is a handheld, portable diesel transfer pump designed to be used as a mobile refueling solution for on-the-go dispensing. This handy kit includes 12V Bypass 3000 pump, manual nozzle, suction and dispensing hoses, and the Piusi Vantage Valve which locks shut after fueling to prevent spillage.

- **12 GPM.**
- **Self-priming** vane pump.
- Available in both **12V DC** and **24V DC**.
- Best suits the agricultural, construction, municipalities and marine industries. Preferably used to transfer diesel directly from drums or small tanks.
- Ideal handheld solution for fleet vehicles, plant machinery, generators, off-site equipment, OTR, diesel fuel tanks and more.



Part #	Description	Fluid (page 3)	Filter	Nozzle	Duty Cycle minutes	Hose Length	Hose Diameter Ø	Weight lb.	Packaging in.
FOO23101	Piusibox 12V Pro	D	Yes	Manual	30 on/30 off	20 ft.	3/4"	26.5	14.5 x 11 x 15.5
FOO23201	Piusibox 24V Pro	D	Yes	Manual	30 on/30 off	20 ft.	3/4"	26.5	14.5 x 11 x 15.5
FOO22300	CARRY 3000 12V	D	-	-	30 on/30 off	-	-	9.3	10.2 x 9.3 x 6.5
FOO22400	CARRY 3000 24V	D	-	-	30 on/30 off	-	-	9.3	10.2 x 9.3 x 6.5
FOO22500	Battery Kit 12V	D	-	Manual	30 on/30 off	13 ft.	3/4"	17.3	12 x 12 x 7
FOO22600	Battery Kit 24V	D	-	Manual	30 on/30 off	13 ft.	3/4"	17.3	12 x 12 x 7

14 GPM

PORTABLE DIESEL FILTER SYSTEM

FILTROLL 12V DC

Diesel Transfer Pump + Integrated Filtering System

This **portable filtration unit** provides a **double filter** and triple control, **absorbing any water and impurities.**

- **Flow rate** 14.8 GPM.
- **Two step** filtration.
- **Duty cycle** 30 minutes on, 30 minutes off.
- Manual nozzle included.



Part #	Description	Flow Rate GPM	Fluid (page 3)	pump	Electrical		Hose Length (ft.)		Weight lb.	Packaging in.
					volts	amp	delivery	suction		
Foo50606A	Filtrall Diesel 12V	14.8	D	Panther DC	12	35	13.1	13.1	77	24 x 24 x 51

15 GPM

DIESEL TRANSFER PUMP SYSTEM

PITSTOP 12VDC

Hose Reel + Integrated Dispensing Pump

- Versatile **heavy-duty diesel dispenser**.
- **50 ft. hose reel**.
- **Easy to install** to both **fixed or mobile tanks**.
- Delivers **up to 15 GPM**.
- **Ideally used to deliver diesel** in a rural location directly to your farm equipment, fleet, and work vehicles.
- Comes equipped with (2) BP 3000 DC PUMPS, 50 ft. of dispensing hose, automatic nozzle, and water filter.
- **Automatic Nozzle** with swivel.

- Hose Reel
- Safety Guard
- Adjustable Arm
- Dispensing Hose
- On/Off Switch
- Swivel
- A60 Automatic Nozzle
- 12V DC Pumps
- Structure Support
- Water Filter
- K24 Digital Turbine Meter (not included)



ACCESSORIES

FILTER INCLUDED



F00611010

METER OPTIONAL



F0040801A

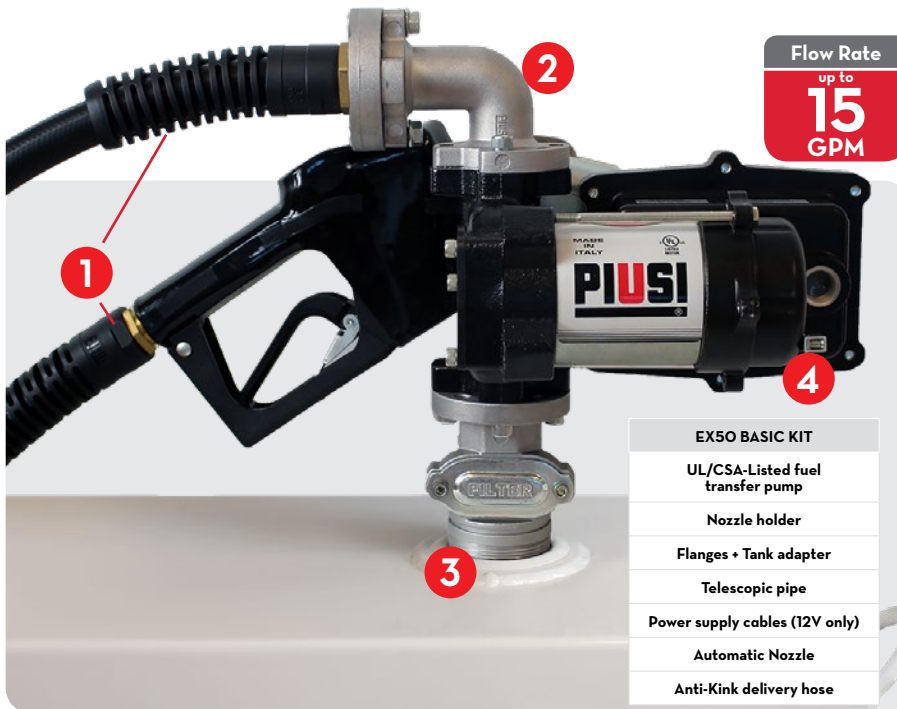


Part #	Description	Pump model	Fluid (pg. 3)	Flow Rate GPM	DC volts	Duty Cycle minutes	Hose Length ft.	Hose Ø	Weight lb.	Packaging in.
F00212020	PIUSI PITSTOP	BP 3000 (2)		up to 15	12	30 on/30 off	50	3/4"	99.2	23.4 x 13.5 x 24.4



EX SERIES FUEL PUMPS

UL/CSA-LISTED FUEL TRANSFER PUMPS FOR GASOLINE, DIESEL, AND KEROSENE



Flow Rate
up to
15
GPM

EX50 FUEL TRANSFER PUMP

- 1** Anti-kink hose prevents the hose from kinking in tight turns.
- 2** Flanged components allow the unit to be installed or replaced without the use of sealant, making connections quick & easy.
- 3** Unique patented bung adapter with flanged component allows for a quick connection, with an easily accessed inlet strainer and integral check valve that leaves it anti-syphon ready.
- 4** Spring-loaded, reinforced vanes provide higher suction capabilities, and keep consistent pressure and fluid displacement at all times.



DUTY CYCLE 30 Minutes on/ 30 Minutes off



EX50 WITH NOZZLE HOLDER	
UL/CSA-Listed fuel transfer pump	
Nozzle holder	
Flanges + Tank adapter	
Telescopic pipe	



EX50 PRO KIT	
UL/CSA-Listed fuel transfer pump	
Nozzle holder	
Flanges + Tank adapter	
Telescopic pipe	
Power supply cables (12V only)	
Automatic Nozzle	
Anti-Kink delivery hose	
K33 ATEX mechanical flow meter	

Part #	Description	Flow Rate GPM	Motor			Fluids (page 3)	Inlet - Outlet	Weight lb.	Packaging in.
			AC V./Hz DC Volt	power watt	amp. max.				
F0037250	12V EX50 w/ Nozzle Holder	15	12	250	17	D G K	1" NPT	20	14 x 7.5 x 10.5
F0037450	120V EX50 w/ Nozzle Holder	15	120/60	250	1.7	D G K	1" NPT	19	14 x 7.5 x 10.5
F0037251	12V EX50 Basic Kit	15	12	250	17	D G K	1" NPT	31	24 x 16 x 11
F0037451	120V EX50 Basic Kit	15	120/60	250	1.7	D G K	1" NPT	30	24 x 16 x 11
F0037550	12V EX50 Pro Kit	15	12	250	17	D G K	1" NPT	36	24 x 16 x 11
F0037650	120V EX50 Pro Kit	15	120/60	250	1.7	D G K	1" NPT	35	24 x 16 x 11



EX75

FUEL TRANSFER PUMP

Flow Rate
up to
20
GPM



EX75 BASIC KIT
UL/CSA-Listed fuel transfer pump
Nozzle holder
Flanges + Tank adapter
Telescopic pipe
Power supply cables (12V only)
Automatic Nozzle
Anti-Kink delivery hose

DUTY CYCLE	30 Minutes on 30 Minutes off
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EX75 PRO KIT
UL/CSA-Listed fuel transfer pump
Nozzle holder
Flanges + Tank adapter
Telescopic pipe
Power supply cables (12V only)
Automatic Nozzle
Anti-Kink delivery hose
K33 ATEX mechanical flow meter

Part #	Description	Flow Rate GPM	Motor			Fluids (page 3)	Inlet - Outlet	Weight lb.	Packaging in.
			AC V./Hz DC Volt	power watt	amp. max.				
F00378500	12V EX75 w/ Nozzle Holder	20	12	250	20	D G K	1" NPT	22	23.5 x 16 x 11
F00378510	12V EX75 Basic Kit	20	12	250	20	D G K	1" NPT	36	23.5 x 16 x 11
F00379500	12V EX75 Pro Kit	20	12	250	20	D G K	1" NPT	41	23.5 x 16 x 11

*120V AC powered version coming soon

ACCESSORIES

Telescopic Pipe Included



max. 43 inch

Part # F17923000
(max 37" for EX75)

EX50 Delivery Hose



13 ft. 1"NPT-3/4" NPT
Part # F18628000

20 ft. 1"NPT-3/4" NPT
Part # F21533000

EX75 Delivery Hose



12 ft. 1" NPT
Part # F20441000

Water + Particulate Filter Available



See Filters section
page 19

2" Connector Included



Part # F17191000

Metric Adapter Available




Part # F18156000

Power Supply Cable (12V only)



Part # F18626000

EX Vane Kit



Part # R18700000
Includes: 5 vanes,
5 springs.

15^{GPM}

25^{GPM}

30^{GPM}

DIESEL TRANSFER PUMPS

These vane pumps represent 20+ years of reliability as the industry standard for diesel transfer.

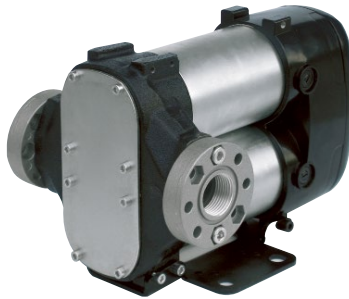
PANTHER 56

- Standard flow rate diesel transfer
- Self-priming rotary vane pump
- 15 GPM - 1" NPT flange - 120V AC
- Induction motor with heavy-duty aluminum casing with bypass valve
- Suitable for **continuous use** with thermal overload protection



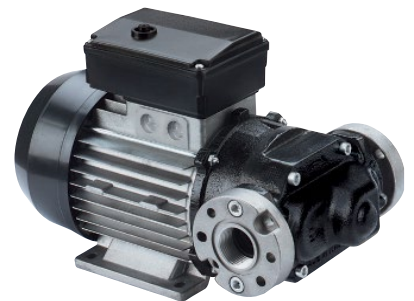
BI-PUMP

- Heavy-duty, high flow diesel transfer
- Dual rotary vane pump
- 25 GPM - 1" NPT flange - 12V DC
- Bypass valve incorporated into the pump body
- Duty cycle: 30 min. on/ 30 min. off
- 13 feet of cables with integrated On/Off switch



E120

- Heavy-duty, high flow diesel transfer
- Self-priming rotary vane pump
- 30 GPM - 1" NPT flange - 120V AC
- Induction motor with heavy-duty aluminum casing with bypass valve
- Suitable for **continuous use** with thermal overload protection



BI-PUMP KIT INCLUDES:
A120 Auto-nozzle
18 ft. of delivery hose
Telescopic downtube
Tank connector

Part #	Description	Flow Rate	Motor		Fluid (pg. 3)	Inlet - Outlet	Weight lb.	Packaging in.
		GPM	volts/amp/hz	RPM				
Foo32701B	E120 NPT	30	120V / 12 Amp / 60 Hz	1750	D	1" NPT	35	13 x 7 x 11
Foo22220A	Bi-pump Kit	25	12V / 42 Amp / -	2000	D	1" NPT	48	23 x 16 x 13.5
Foo36305	Bi-pump 12V with Cable 13 ft.	25	12V / 42 Amp / -	2000	D	1" NPT	18	13 x 7 x 10
Foo36306	Bi-pump 24V with Cable 13 ft.	25	24V / 22 Amp / -	2000	D	1" NPT	22	13 x 7 x 10
Foo730410	Panther 56	15	120V / 7.5 Amp / 60 Hz	3450	D	1" NPT	22	13 x 7 x 11

FUEL NOZZLES



Self3000

- **Manual Nozzle** for diesel, gasoline and light oils
- High-range flow rate **up to 40 GPM**
- **Aluminum framed / anti-shock body** provides durability & longevity

UL-Nozzle



- **UL certification** makes this nozzle an explosion-proof option suitable for use with Gasoline
- Mid-range flow rate **up to 16 GPM**
- **Automatically shuts off flow when the tank is full**
- **Aluminum framed / anti-shock body** provides durability & longevity



A60

- **Automatic Diesel Nozzle w/ Swivel**
- Mid-range flow rate **up to 19 GPM**
- **Automatically shuts off flow when the tank is full**
- **Aluminum framed / anti-shock body** provides durability & longevity

A120

- **Automatic Diesel Nozzle w/ Swivel**
- High-range flow rate **up to 32 GPM**
- **Automatically shuts off flow when the tank is full**
- **Aluminum framed / anti-shock body** provides durability & longevity



A120



- **UL certification** makes this nozzle an explosion-proof option suitable for use with Gasoline
- High-range flow rate **up to 32 GPM**
- **Automatically shuts off flow when the tank is full**
- **Aluminum framed / anti-shock body** provides durability & longevity

Part #	Description	Flow Rate GPM	Fluids (page 3)	Inlet	Spout exterior Ø	Weight lb.	
					in.	with swivel	without swivel
00065100A	Self 3000 (lead)	40	D G Lo	F 1" NPT	1"	-	1.3
00065101A	Self 3000 (unleaded)	40	D G Lo	F 1" NPT	1"	-	1.3
F18635000	UL-Nozzle	16	D G K	F 3/4" NPT	3/4"	2.5	2
F00603470	A60 automatic nozzle	19	D	F 1" NPT	3/4"	3	2.5
F00610160	A120 automatic nozzle	32	D	F 1" NPT	1"	3.9	3.4
F21088000	A120-UL automatic nozzle	32	D G K	F 1" NPT	1"	-	3.8

FILTERS

**8-5/8" LONG PARTICULATE
FILTER**



**8-5/8" LONG WATER
CAPTOR**



**5-3/8" LONG PARTICULATE
FILTER**



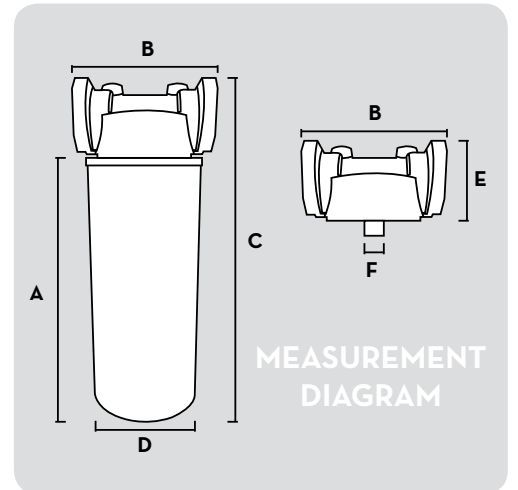
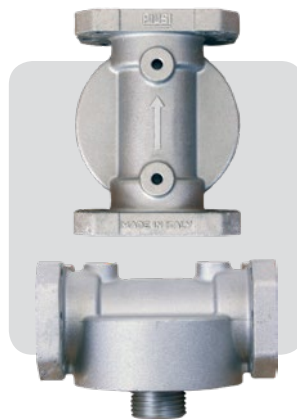
**5-3/8" LONG WATER
CAPTOR**



**REPLACEMENT
FILTER FOR
PIUSIBOX**



FILTER HEAD



Part #	Description	Fluids (page 3)	Micron μm	Max Pressure psi	Measurements in.						In / Out in.
					A	B	C	D	E	F	
F14640000	Filter Head	-	-	-	-	4"	-	-	2-1/4"	1"-12 UNF	1" NPT
Foo611T10	8" Particulate Filter Cartridge 25 GPM	D G	10	50	8-5/8"	-	11"	3-1/4"	-	1"-12 UNF	-
Foo611T00	5" Particulate Filter Cartridge 25 GPM	D G	10	50	5-3/8"	-	8"	3-1/4"	-	1"-12 UNF	-
Foo611T60	8" Water Captor Cartridge 25 GPM	D G	30	50	8-5/8"	-	11"	3-1/4"	-	1"-12 UNF	-
Foo611T50	5" Water Captor Cartridge 25 GPM	D G	30	50	5-3/8"	-	8"	3-1/4"	-	1"-12 UNF	-
Foo611000	15 GPM Particulate filter for Piusibox	D	10	174	5"	-	-	3-1/4"	-	-	-

FLOW METERS

MECHANICAL



K33 ATEX

- 3-digit partial (99.9), 6-digit total (999999) mechanical fuel meter
- ATEX + IECEx approval
- Up to 32 GPM
- +/- 1% accuracy
- 1" NPT inlet/outlet
- 145 psi Max Operating Pressure
- Nutating disk system



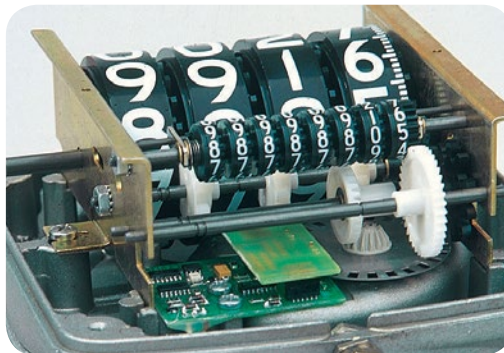
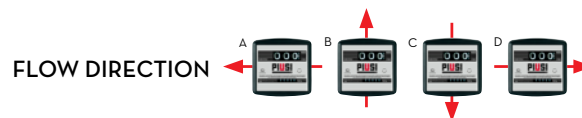
K44








- 4-digit partial (999.9), 7-digit total (9999999) mechanical fuel meter
- Up to 32 GPM
- +/- 1% accuracy
- 1" NPT inlet/outlet
- 145 psi Max Operating Pressure
- Also suitable for light oils up to 30cSt
- Nutating disk system



K700

- 4-digit partial (999.9), 7-digit total (9999999) mechanical fuel meter
- 4 digit high flow mechanical fuel meter
- Up to 53 GPM
- +/- 1% accuracy
- 1-1/2" NPT inlet/outlet
- 145 psi Max Operating Pressure
- Also suitable for light oils up to 200cSt
- Oval gear system



Part #	Description	 Flow Direction	Flow Rate GPM	Max Operating Pressure psi	Burst Pressure psi	Inlet - Outlet Connection	Fluids (page 3)	Weight lb.	Packaging in.
Foo570510	K33 ATEX GAL/NPT Ver. B		5-32	145	400	1" NPT		5	7 x 7 x 6.5
000710000	K44 GAL/NPT Ver. A		5-32	145	400	1" NPT		5	7 x 7 x 6.5
Foo540050	K700M GAL Ver. A		5-53	145	400	1-1/2" NPT		13	10 x 10 x 11

*Other versions available by request

FLOW METERS

K24

These digital turbine meters have taken the trustworthy K24 meter line to the next level! Now available for multiple fuels, these meters still incorporate the 360° (degree) rotatable face and inline turbine. However, they are now made with a robust aluminum housing and compatible with Diesel, Gasoline (up to E85), Kerosene, Avgas 100/100LL, Jet A/A1, and Aspen 2/4!



- Bi-directional capabilities let you calculate fuel from both sides.
- Female/Male inlet and outlet allow the meter to be quickly and easily installed to the current configuration.
- Digital screen can be adjusted to various positions.
- Can be mounted directly on the nozzle or inline.
- Robust, protective rubber casing and sealed internals make it versatile for use in many conditions.
- Accuracy +/- 1% for UL, A, & Pulser models.
- Accuracy +/- 3% for O model.



BIDIRECTIONAL FLOW &
ADJUSTABLE FLOW DIRECTIONS



K24-UL 








K24-A



K24-O



K24-A Pulser

Part #	Description	Max Operating Pressure	Inlet - Outlet 1" NPT	Instant Flow Rate	Calibration	Flow Rate GPM	Fluids (page 3)	Battery
F00408U00	K24-UL 	300 psi	M - F or F - M	YES	YES	2-32		R18021000 (UL/CSA-listed)
F0040802A	K24-A	300 psi	M - F or F - M	YES	YES	2-32		2 x AAA
F0040801A	K24-O	300 psi	M - F or F - M	NO	YES	2-30		2 x AAA
F00408Y10	K24-A Pulser	300 psi	M - F or F - M	-	-	2-32		-

FLOW METERS

Aluminum bodied meters with acetal resin oval gears. These **flow meters** are used for controlling the **non-retail dispensing** of **low, medium and high viscosity fluids**. These **meters** are **easy to install** and **calibrate**.

The **pulse meters** provide a **simple interface** for any **fluid management system**.

DIGITAL METERS



ACCURACY

0.5
%

K200

PULSER

5306
p./gal.

Part #	Description	Flow Rate GPM	Fluids (page 3)	Operating Pressure psi	I/O NPT	Weight lb.	Packaging in.
FOO430140	K200	0.03 - 0.66	DO	8000	1/8"	1.3	3 x 4 x 5
000452030	K200 HP Pulser	0.03 - 0.66	DO	8000	1/8"	1.3	3 x 4 x 5



PULSE METERS



ACCURACY

0.5
%

K400

PULSER

379
p./gal.

Part #	Description	Flow Rate GPM	Fluids (page 3)	Operating Pressure psi	I/O NPT	Weight lb.	Packaging in.
FOO484010	K400	0.26 - 7.9	DO	1015	1/2"	1	3 x 3 x 3
00044008A	K400 Pulser	0.26 - 7.9	DO	1015	1/2"	1.2	3 x 3 x 3



ACCURACY

0.5
%

K600/3

PULSER

133
p./gal.

Part #	Description	Flow Rate GPM	Fluid (page 3)	Operating Pressure psi	I/O NPT	Weight lb.	Packaging in.
FOO496A40	K600/3	2.6 - 26.4	D	435	1"	2.6	8 x 5 x 5.5
FOO472A30	K600/3 Pulser	2.6 - 26.4	D	435	1"	2.8	8 x 5 x 5.5
FOO496A10	K600/3	1.5 - 15.8	O	1015	3/4"	5.4	8 x 5 x 5.5
FOO472A10	K600 2-3 Pulser	1.5 - 15.8	O	1015	3/4"	2.8	8 x 5 x 5.5



FLOW METERS

Aluminum bodied meters with acetal resin oval gears. These flow meters are used for controlling the non-retail dispensing of low, medium and high viscosity fluids. These meters are easy to install and calibrate. The pulse meters provide a simple interface for any fluid management system.

DIGITAL METERS



ACCURACY

0.5
%

K600 B/3

PULSER

127
p./gal.

Part #	Description	Flow Rate GPM	Fluid (pg. 3)	Operating Pressure psi	I/O NPT	Weight lb.	Packaging in.
FOO491040	K600 B/3	2.64 - 26.4	D	435	1"	4.4	8.75 x 5 x 5.75
FOO491050	K600 B/3 Oil	1.58 - 15.8	C	1015	3/4"	4.4	8.75 x 5 x 5.75
FOO492020	K600 B/3 Pulser	2.64 - 26.4	D	435	1"	4.4	8.75 x 5 x 5.75
FOO492030	K600 B/3 Pulser Oil	1.58 - 15.8	C	1015	3/4"	4.4	8.75 x 5 x 5.75



ACCURACY

0.5
%

K600/4

PULSER

98
p./gal.

Part #	Description	Flow Rate GPM	Fluid (page 3)	Operating Pressure psi	I/O NPT	Weight lb.	Packaging in.
FOO49701A	K600/4	3.9 - 39.6	D	290	1-1/2"	6.5	8 x 5 x 5.5
000473010	K600/4 Pulser	3.9 - 39.6	D	290	1-1/2"	6.5	8 x 5 x 5.5



ACCURACY

0.5
%

K700 & K900

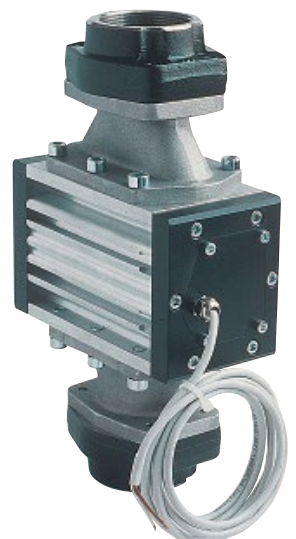
K700
PULSER

53
p./gal.

K900
PULSER

37
p./gal.

Part #	Description	Flow Rate GPM	Fluid (pg. 3)	Operating Pressure psi	I/O NPT	Weight lb.	Packaging in.
FOO49801A	K700 Pulser	6.6 - 66	D	290	2"	13	10 x 9.25 x 6.5
FOO49903A	K900	13.2 - 132	D	290	3"	26	15 x 11 x 8
FOO49904A	K900 Pulser	13.2 - 132	D	290	3"	28	16 x 12 x 8





MC BOX 1.5

ECONOMICAL FLEET MANAGEMENT

The MC Box 1.5 is **ETL/cETL Certified** for **operation in potentially hazardous environments**. The MC Box 1.5 was designed for **small to mid-sized fleet management** and can monitor and **control up to 60 or 120 users** based on software. Data is transferred via gray management key which can record the last **650 transactions**.

*MC Box and pump are powered by single circuit

- Setup, monitoring, and reporting done from your PC.
- Sliding front cover protects the display from wind and rain.
- Intuitive dashboard for fleet management.
- Lockable front panel for added security.
- **Corresponding Self Service software is required.**

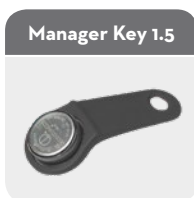


Part #	Description	Fluids	AC/DC volts/hz	Weight lb.	Packaging in.
F0059750	MC Box 1.5 ETL	Any	120/60	12	14 x 7.5 x 11.25
F20552000	Gray Manager Key 1.5	-	-	-	-
F15904000	Yellow user key (x10)	-	-	-	box of 10

SELF SERVICE 1.5 SOFTWARE

* Complete 1.5 management system requires: MC Box 1.5, Self Service 1.5 software (Standard or Professional), Gray Manager Key (R20552000), and Key Reader (F12262010).

- Simplified dashboard panel.
- Data can be sent to a PC via electronic key with memory or key reader.
- Continuously monitors current tank levels, users, and vehicles.



Part #	Description	Control up to	Users
F00772400	Self Service 1.5 Standard	2 MC Boxes	60
F00772420	Self Service 1.5 Professional	4 MC Boxes	120
F12262010	Key Reader	-	-



MC BOX 2.0

LARGE FLEET MANAGEMENT

The **ETL/cETL Certified** MC Box 2.0 Management System is designed for large fleet management, with software that can **supervise, monitor, and coordinate up to 1000 users**, and **up to 12 MC Box units**. The intuitive dashboard **shows you tank levels, customized user profiles, fuel consumption data per vehicle, and more**. Optimize your fuel management today with the MC Box 2.0 and Self Service 2.0 software.

- Setup, monitoring and reporting done from your PC.
- Intuitive dashboard panel shows you what's going on at a glance.
- Continuously monitors current tank levels.
- Monitor, control, and limit drivers & vehicles from your PC.
- Create customized reports & graphs that show you the details of each tank, liquid, vehicle, or driver that your company manages.
- **Corresponding Self Service software is required.**



*MC Box and pump are powered by single circuit



Part #	Description	Fluids	AC/DC volts/hz	Weight lb.	Packaging in.
F0059705	MC Box 2.0 LAN - ETL	Any	120/60	12	16 x 12 x 8
F12710120	Wi-Fi Upgrade	-	-	-	-
F15904000	Yellow user key (x10)	-	-	-	box of 10
F17299000	Blue vehicle key (x10)	-	-	-	box of 10

SELF SERVICE 2.0 SOFTWARE

* Complete 2.0 management system requires: MC Box 2.0, Self Service 2.0 software (Standard, Professional, Enterprise or Ultimate). Cloud service available soon. Self Service 2.0 Client license allows software use for multiple workstations.



Part #	Description	Control up to	Users
F00772010	Self Service 2.0 Standard	2 MC Boxes	100
F00772020	Self Service 2.0 Professional	4 MC Boxes	250
F00772030	Self Service 2.0 Enterprise	8 MC Boxes	500
F00772040	Self Service 2.0 Ultimate	20 MC Boxes	1000
F00720000	Self Service 2.0 Client	-	-



DISPENSERS MECHANICAL

CUBE 56 w/Suction Pump

Supply fuel to your vehicles with the **Cube 56** 3-digit mechanical dispenser for private use. This fully enclosed, electric fuel transfer pump unit comes equipped with meter, automatic nozzle and hose, which allows quick, safe refueling, as well as the measurement of the quantity of fuel dispensed.



- **15 GPM Panther 56** diesel transfer pump
- **3-digit mechanical meter**
- **13 ft. of dispensing hose**
- **Automatic A60 nozzle**

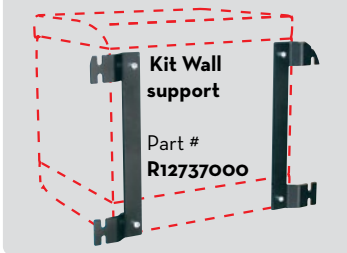
Pedestal:
(optional)

Part #
F1270800



**Kit Wall
support**

Part #
R12737000



SELF SERVICE K44 DISPENSER w/Suction Pump

Transfer diesel faster with the **Self Service K44** Dispenser for private use. This system features an easily read 4-digit mechanical meter, high flow E120 diesel transfer pump, and all the necessary hoses and automatic nozzle, allowing you to start dispensing right away. Control the on/off function of this pump with the integrated nozzle contact. Simply return the nozzle in the holster and the pump automatically turns off.

- **30 GPM E120 diesel** transfer pump
- **4-digit mechanical meter**
- **13 ft. of dispensing hose**
- **Automatic A120 nozzle**
- **Fully enclosed dispenser**
- **Accuracy: +/- 1 %**
- **Continuous AC operation**
- **Noise level below 75 dB**
- **High-flow rate option for refueling large fleet vehicles or heavy machinery**
- **IP-55 (NEMA 3) protection**



Part #	Description	Pump		Motor					Fluid (pg. 3)	Meter	Fitting	Nozzle automatic	Weight lb.	Packaging in.
		Model	Flow Rate GPM	Tension volts	Freq. hz	Power watt	Amp (A)	RPM						
F0057900C	Cube 56 (120V)	Panther 56	15	120	60	650	7.5	3450	D	K33	NPT	Yes	48.5	15 x 15 x 19
F0057603A	Cube 56/K33 DC 12V	PantherDC	15	12	DC	300	35	3000	D	K33	NPT	Yes	48.5	15 x 15 x 19
F00740090	Self Service K44 Dispenser GALLON	E120	30	120	60	1000	10	1700	D	K44	NPT	Yes	165	58 x 19 x 17
F00740080	Self Service K44 Dispenser LITER	E120	30	120	60	1000	10	1700	D	K44	NPT	Yes	165	58 x 19 x 17

DISPENSERS

PUMP + FMS COMBO

CUBE 70^{MC} 1.0 & 2.0



The Piusi Cube 70 MC 1.0 & 2.0 Fuel Management Systems are compact, easy to install diesel dispensers for private use, which ensure fast and precise dispensing by authorized personnel. The Cube 70 MC comes standard with a nozzle holder, automatic nozzle, internal diesel transfer pump (capable of up to 15 GPM) and electronic meter.

Pedestal:
(optional)

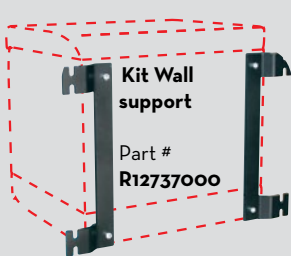
Part #
F1270800



- 15 GPM diesel transfer pump
- Digital display
- Management system
- 13 ft. of dispensing hose
- Automatic A60 nozzle
- Up to 120 users
- Self Service software required
- see page 21 for 1.0 software options, pg. 18 for 2.0 options
- Wi-Fi upgrade available
- for Cube 70 MC 2.0

Kit Wall support

Part #
R12737000



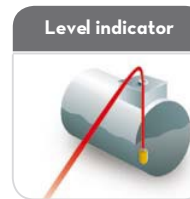
SELF SERVICE FM DISPENSER^{w/Suction Pump} 1.0 & 2.0

Now you can **manage your entire fleet's diesel consumption** with one dispensing system! The Self Service FM dispenser is a diesel fuel management system that incorporates a **local printer to issue tickets** at the end of the dispensing operation.

- 30 GPM E120 diesel transfer pump
- Digital display
- Management system
- Ticket printer
- 13 ft. of dispensing hose
- Automatic A120 nozzle
- Up to 120 users
- Additional Self Service fuel management software is available, which allows the dispensing data to be exported to and viewed on a PC.
(see page 18 for software options)



COMPONENTS



Part #	Description	Pump		Motor					Fluid (pg. 3)	Meter	Nozzle automatic	Weight lb.	Packaging in.
		Model	Flow Rate GPM	Tension volts	Freq. hz	Power watt	Amp (A)	RPM					
F0059423	Cube 70 MC	Panther 56	15	120	60	550	5.5	2700	D	K600	Yes	48.5	15 x 15 x 19
F00596200	Cube 70 MC 2.0	Panther 56	15	120	60	550	5.5	2700	D	K600	Yes	48.5	15 x 15 x 19
F12710120	Wi-Fi Upgrade for Cube 70 MC 2.0 + FM	-	-	-	-	-	-	-	-	-	-	-	-
F0074204	Self Service FM	E120	30	120	60	1000	10	1700	D	K600	Yes	165	58 x 19 x 17
F0074305	Self Service FM 2.0	E120	30	120	60	1000	10	1700	D	K600	Yes	165	58 x 19 x 17

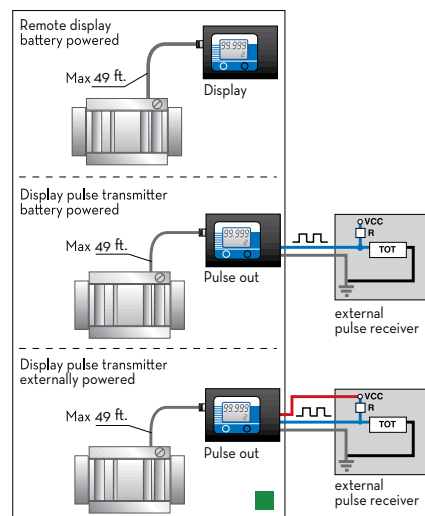
SELF SERVICE 1.0 SOFTWARE

1.0 management systems such as the Cube 70 MC require one of the following software packages

<p>A</p> <p>SSM 1.0 2018 Software Part # Foo773010 Includes: • 1 USB with PC software Red Manager Key Part # F1249600 Key Reader Part # F12262010 Includes: • 1 Reader for i-button keys (user keys sold separately)</p>	<p>B</p> <p>PC Interface Part # F1271000C Kit Includes: • 1 USB converter • 1 USB with PC software</p>	<p>C</p> <p>Wi-Fi Kit Part # F1271004B Kit includes: • Wi-Fi box • Wi-Fi transmitter • PC software</p>	<p>D</p> <p>PW-LAN Kit Part # F1271005B Kit includes: • PW-LAN box • PC software</p>	<p>User Key Part # F15904000 Includes: • 10 yellow keys</p> <p>Vehicle Key Part # F17299000 Includes: • 10 blue keys</p> <p>Manager Key 1.5 Part # F20552000 Includes: • 1 gray key</p> <p>Manager Key 1.0 2018 Part # F1249600 Includes: • 1 red key</p>
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REMOTE DISPLAY W/PULSE OUT

Versatile display that can be **mounted** at any location **within 49 ft.**, and also offers the **ability to pulse out** to **custom set pulse ratios** to accommodate different **system input settings**. The remote display is able to **measure in gallons, liters, quarts, and pints**.



Part #	Description	Pulse Out (p/g)		Weight lb.	Packaging in.
		Pulser Version	Display Version		
Foo49503B	Universal Remote Display	-	1 - 100	2.6	8 x 5 x 6

OCIO

LEVEL INDICATOR

FOR DIESEL AND OIL

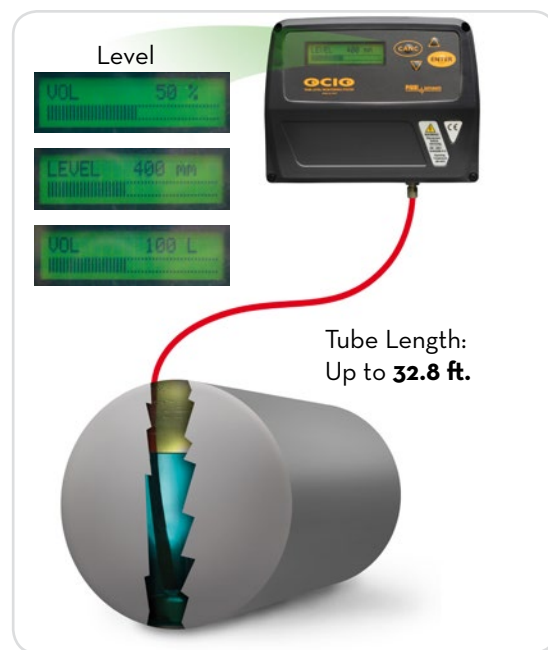
Continuous tank level monitoring, the OCIO **detects the static pressure** generated by the **fluid height** by means of a tube inserted into the tank and **displays the fluid level or volume**. **Integrated software available** that allows the user to **set various parameters** and **monitor the usage of up to 12 tanks** at a time.

HARDWARE

- **Instant digital level indicator**
- **Customizable** unit of measurement (**L/mm, G/in**)
- Maximum measurable tank height: **13 ft.**
- Maximum measurable tank length: **165 ft.**
- **Calibrate** as required

SOFTWARE

- **Easy tank level monitoring**
- **Intuitive tank display**
- **Adjustable** low/high **alarm levels**
- **Resettable tank type** and dimensions for different tanks
- **OCIO level indicator hardware required for each individual tank**



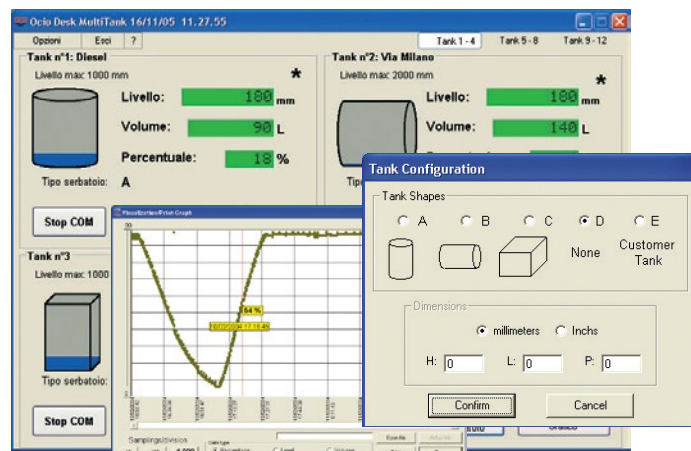
Part #	Description	Viscosity cSt	Fluids (page 3)	AC volts/hz	RS exit	Weight lb.	Packaging in.
Foo75511D	Level Indicator OCIO LV / RS output 120V	up to 30		120/60	available	4.8	12 x 16 x 4
Foo755230	OCIO 2.0 LAN 120/60 (2.0 softwares only)	up to 30		120/60	available	4.8	12 x 16 x 4
Foo755240	OCIO 2.0 Wi-Fi 120/60 (2.0 softwares only)	up to 30		120/60	available	4.8	12 x 16 x 4
Foo755250	OCIO 2.0 RS485 120/60 (2.0 softwares only)	up to 30		120/60	available	4.8	12 x 16 x 4

*OCIO 2.0 hardware only for use with Self Service 2.0 for the 2.0 management system

OCIO DESK

Software + PC interface

Part #	Description	Weight lb.	Fluids (pg. 3)	Packaging in.
Foo755S1A	OCIO desk SINGLE TANK (software + PC interface for 1 tank)	1		8 x 5 x 5.5
Foo755SoC	OCIO desk MULTITANK 4 (software + PC interface for 4 tanks)	2.8		8 x 5 x 5.5
Foo755S2A	OCIO desk MULTITANK 8 (software + PC interface for 8 tanks)	5.2		7 x 7 x 6.5
Foo755S3A	OCIO desk MULTITANK 12 (software + PC interface for 12 tanks)	6.8		7 x 8 x 6.5



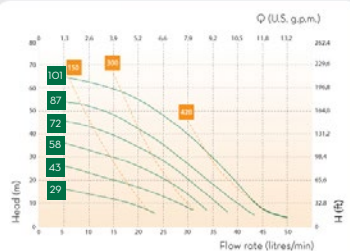
OIL EQUIPMENT PIUSI MA

AIR-OPERATED DIAPHRAGM PUMPS



MA130

PIUSI MA 130



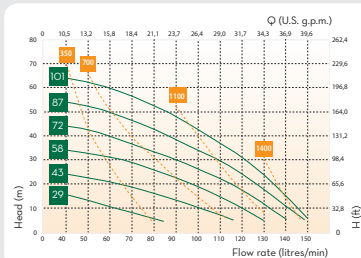
— Air supply pressure PSI
— Air consumption NL/min



Piusi MA **air-operated diaphragm pumps** are designed to assure the utmost reliability and highest performance levels. The sturdy **central polypropylene body**, the **lateral half-shells** and aluminum or polypropylene suction and delivery manifolds plus the use of high quality **NBR diaphragms** make it possible to **transfer fluids with high apparent viscosities**, even when contaminated with suspended solids as in the case of spent oil.

MA180

PIUSI MA 180



— Air supply pressure PSI
— Air consumption NL/min



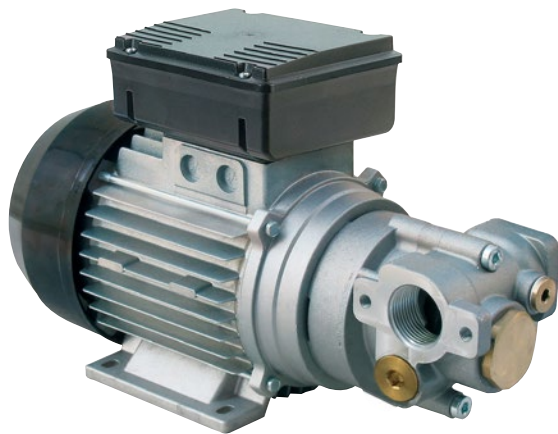
The **pneumatic circuit** guarantees safe operation and the construction principle makes Piusi MA pumps particularly suitable for operation in potentially explosive atmospheres (**ATEX certification for zone 2**).

Piusi MA pumps are **self-priming** and can **run dry without damage**, and allow **fine tuning of speed** without pressure loss.

Part #	Description	Flow Rate GPM	Fluids (page 3)	Max Air Supply Pressure psi	Pump Body	Air Connection in.	Inlet - Outlet in.	Ball Seats	Weight lb.	Packaging in.
Foo208A30	Piusi MA 130	up to 13		100	Aluminum	3/8" NPT F	1/2" NPT	Aluminum	4	8.7 x 12.2 x 12.6
Foo208A40	Piusi MA 180	up to 40		100	Aluminum	3/8" NPT F	1" NPT	PPS-V	8	10.6 x 15.4 x 15.7

OIL EQUIPMENT VISCOMAT

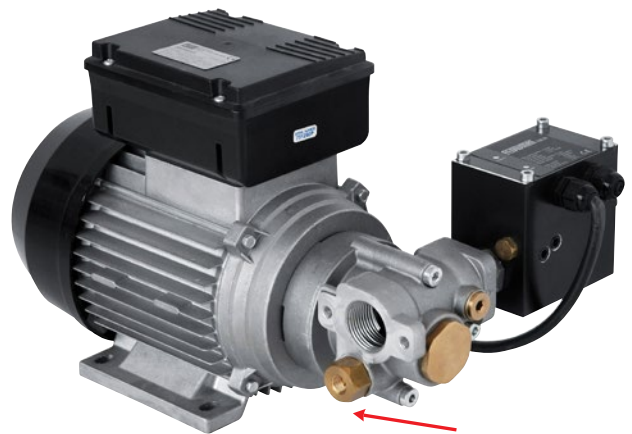
VISCOMAT 200/2



Viscomat gear is a family of **internal profile gear pumps** designed as the **modern**, effective solution for various requirements when **pumping oils and lubricants**.

- Flow rate 2.4 GPM
- Operating Pressure up to 170 psi
- **Continuous** operation
- Noise **less than 70 dB**
- Viscosity up to **2000 cSt**
- Self-priming pump

VISCOMAT 350/2 +FLOWMAT



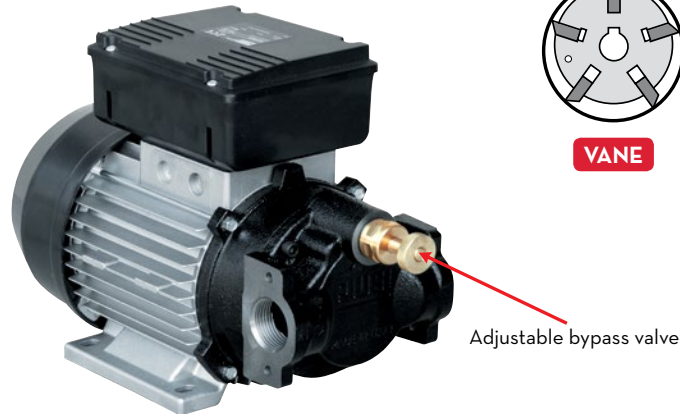
Adjustable bypass valve

Gear pumps with pressure switch. The “**Flowmat**” is designed to satisfy requirements of **constant flow** deliveries with a **self-priming pump** featuring **automatic switch-off** on the completion of delivery.

- Flow rate 2.4 GPM
- Operating Pressure up to 355 psi
- **Continuous** operation
- Automatic **switch-on** and **switch-off**
- Uniform **pulseless flow**
- Noise **less than 65 dB**
- Viscosity up to **2000 cSt**
- Self-priming pump

Part #	Description	Flow Rate	Fluid (page 3)	Pressure	Motor			Inlet - Outlet	Weight	Packaging
		GPM		psi	amp	watt	RPM		lb.	
F0030421D	Viscomat 200/2 120V 60 Hz + cable + switch	2.4		170	12	1200	1700	3/4" NPT	31	14 x 11 x 8
F0030210A	Viscomat 350/2 M 120/60 + Flowmat	2.4		355	13	1500	1730	3/4" NPT / 1" NPT	47	19 x 15 x 11

VISCOMAT 70



Viscomat **vane pumps** for **transferring medium-viscosity oils** with **high flow rates**.

- **Flow rate** 7 GPM
- **Operating Pressure** up to 87 psi
- **Continuous operation**
- Noise **less than 70 dB**
- **Viscosity** up to **500 cSt**
- **12 Amp - 1200 watt - 1700 rpm**
- **1" NPT Inlet - Outlet**

TOTE KIT



Viscomat **vane pump** mounted to a stainless steel hanging bracket. This bracket allows you to easily hang the oil pump from the side of a standard IBC tote.

- **13 ft. of delivery hose**
- **6.5 ft. of suction hose**
- Suction valve available on request (by MicroMatic)
- **EasyOil manual nozzle**
- Nozzle holder

Part #	Description	Flow Rate	Fluid (page 3)	Pressure	Motor			Inlet - Outlet	Weight	Packaging
		GPM		psi	amp	watt	RPM		lb.	in.
F0033991C	Viscomat 70 120V 60 Hz	7		87	12	1200	1700	1" NPT	32	14 x 11 x 8
F00248000	Viscomat 70 120V Tote Kit	7		87	12	1200	1700	1" NPT	41	19 x 15 x 11

USABLE VISCOSITY CHART

$$\text{cSt} = \text{mm/s}^2$$

= Viscomat 70

+ = Viscomat 200/2
Viscomat 350/2

TYPE OF OIL:	5°F	14°F	23°F	32°F	41°F	50°F	59°F	68°F	77°F	86°F	95°F	104°F
60 Spindle Oil	380	220	130	87	60	40	30	22	17	13	-	-
90 Refrigerator Oil	430	270	280	122	90	65	48	36	28	23	-	-
150 Refrigerator Oil	900	550	330	240	160	110	80	60	46	36	-	-
90 Turbine Oil	1100	700	440	290	200	140	100	75	63	40	-	-
150 Spindle Oil	2000	1000	600	360	230	150	100	75	55	46	-	-
SAE - 10 W	1150	700	460	300	220	150	110	85	65	36	-	-
ISO 32 Aut. machine oil	1800	1000	600	400	260	180	125	90	70	53	-	-
120 Machine Oil	3000	1600	1000	620	400	265	180	130	95	75	-	-
300 Refrigerator Oil	3300	1800	1000	700	420	280	190	130	95	75	-	-
140 Turbine Oil	3500	2000	1200	750	500	320	240	170	120	95	-	-
SAE - 20	3500	2000	1200	800	530	370	260	190	140	105	-	-
160 Machine Oil	4300	2500	1400	900	600	400	285	190	140	105	-	-
ISO 68 Lubricant	5000	2800	1700	1300	650	400	300	210	150	130	-	-
180 Turbine Oil	5000	3000	1800	1050	700	460	320	220	160	120	-	-
200 Turbine Oil	6500	3800	2200	1300	800	550	360	260	180	135	-	-
SAE - 80 Gear Oil	7000	4000	2400	1400	900	600	400	280	200	150	-	-
SAE - 30	9000	5000	3000	1800	1150	750	500	340	240	180	-	-
ISO - 100	11000	5500	3200	2000	1200	800	500	350	250	180	-	-
SAE - 40	-	8000	4500	2700	1600	1050	720	500	340	250	-	-
ISO - 150	18000	10000	5500	3200	2000	1250	800	550	380	280	-	-
SAE - 90 Gear Oil	-	-	7000	4200	2500	1800	1000	700	480	340	-	-
SAE - 50	-	-	8000	5000	3000	1800	1200	800	530	380	-	-
ISO - 220	-	-	10000	5500	3200	2200	1300	900	600	420	-	-
SAE - 60	-	-	-	9000	5500	3400	2000	1350	900	650	-	-
ISO - 320	-	-	17000	9500	5500	3300	2100	1400	900	650	-	-
SAE - 140 Gear Oil	-	-	-	10000	6000	3800	2300	1400	1000	700	-	-
ISO - 460	-	-	-	14000	8000	4800	3000	1900	1100	900	620	460
ISO - 680	-	-	-	-	14000	8000	5000	3000	2100	1400	950	680
ISO - 1000	-	-	-	-	-	14000	8000	5000	3100	2100	1500	1000
ISO - 1500	-	-	-	-	-	-	14000	8000	5000	3100	2200	1500

OIL NOZZLES

The K400 and EasyOil set the standard for low to mid flow rate lubrication nozzles

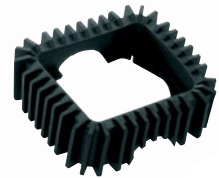
EASYOIL

- Ergonomically compact profile
- Manual nozzle
- Sold with **rigid** spout or **flexible** spout



K400 Nozzle

- Ergonomically compact profile
- **Digital display** to display amount dispensed
- Manual nozzle
- Available as a **complete nozzle**
- Or as individual components with **interchangeable** spouts










Rubber Protection
Part # FO8277000



Filter Included



Oval Gear System

Part #	Description	Flow Rate GPM	Fluid (page 3)	Max Operating Pressure psi	Batteries 	Inlet	Weight lb.	Packaging in.
FO0967120	EasyOil manual nozzle Rigid manual spout	0.3 - 8		994	-	1/2" NPT	2	8 x 12 x 4
FO0967110	EasyOil manual nozzle Flexible manual spout	0.3 - 8		994	-	1/2" NPT	2	8 x 12 x 4
00098100A	K400 manual nozzle QT/NPT without spout	0.3 - 8		994	2 AAA	1/2" NPT	2.2	8 x 12 x 4
000981920	K400 nozzle QT/NPT with flexible automatic spout	0.3 - 8		994	2 AAA	1/2" NPT	3.2	8 x 12 x 4
FO0984200	K400 manual nozzle QT/NPT with flexible manual spout	0.3 - 8		994	2 AAA	1/2" NPT	3.2	8 x 12 x 4
FO0984220	K400 manual nozzle QT/NPT with rigid manual spout	0.3 - 8		994	2 AAA	1/2" NPT	3.2	8 x 12 x 4

OIL NOZZLES

The K500 Preset and Next/2 are high pressure, mid to high flow rate lubrication nozzles

K500PRESET



A lubrication nozzle that allows for preset unit quantity selections for precise lubrication refills.

- Customizable unit of measurement
- Presettable quantity of 0.1 - 99.9 gallons
- Flow rate 2.6 - 7.8 GPM
- Viscosity up to 2000 cSt
- Accuracy up to 0.5%



NEXT/2





- High pressure/high flow powerhouse oil nozzle
- Available with or without Next/2 meter
- Optional rigid or flexible spout

RIGID Spout



FLEXIBLE Spout



Part #	Description	Flow Rate GPM	Fluid (page 3)	Max Operating Pressure psi	Batteries 	Inlet	Weight lb.	Packaging in.
F0068600	K500 with articuable spout	2.6 - 7.8		994	4 AA	1/2" NPT	2	8 x 12 x 4
F00974020	NEXT/2 QT Pistol-ONE w/FLEX spout NPT	1.5 - 15		994	2 AAA	1/2" NPT	6.6	7 x 16 x 4.5
F00974030	NEXT/2 QT Pistol-ONE w/RIGID spout NPT	1.5 - 15		994	2 AAA	1/2" NPT	6.8	7 x 16 x 4.5



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Certified - ISO 9001 - ISO 14001

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