



PROFLOW  
DYNAMICS

**PIUSI**  
USA INC ®

*Fluid Handling Innovation*

GASOLINE TRANSFER SOLUTIONS



# SINCE 1953

Piusi was established in 1953 in Suzzara. A community in the south of Mantua, Italy. The family-owned company was initially a mechanical engineering workshop that serviced the agricultural industry. When the demand for more fluid handling innovations grew, Piusi grew with it. Nowadays the company is the leading manufacturer of strong and easy-to-use products suitable for a variety of uses. Hence the company name which is derived from the Italian words PIÚ and USI which translate to MANY-USSES.

Piusi's mission is not only to provide products that sustain exceptional quality, but are also user friendly and environmentally conscious. Additionally, the company takes pride in the development research; by focusing on finding innovative solutions for the constant need for new technology. This mind set has led PIUSI to expand and open a state-of-the-art facility in the U.S. to cater to North and Central America.

Composed of 200 employees, PIUSI works with an in-house research & development laboratory, and an extensive sales and spare-parts network of 25,000 sqm that is part of a larger area covering 40,000 sqm.

Currently PIUSI is active in over 120 countries, invested in finding solutions for the transferring and measuring of fuels, lubricants and liquids. Committed to its customers by being adamant in finding the most effective and durable technology out there.

*PIUSI fue establecido en el 1953 en Suzzara, una comunidad pequeña al sur de Mantua, Italia. Inicialmente la compañía era un taller de ingeniería mecánica que facilitaba el servicio a la industria agrícola. Cuando la demanda para más soluciones innovadoras prosperó, Piusi prosperó con ella. Hoy en día la compañía es el fabricante más destacado en productos eficientes, fácil para el usuario y útiles para una diversidad de usos. De ahí el nombre de la compañía, derivado de las palabras Italianas PIÚ y USI que se traducen a MUCHOS-USOS.*

*La misión de PIUSI no es simplemente proveer productos que sostienen una calidad particular, pero también son fáciles de operar y mantienen armonía con el medio ambiente. PIUSI se enorgullece en la concentración que conserva en la investigación del desarrollo de la compañía, y se enfoca en encontrar soluciones innovadoras para la necesidad de tecnología nueva. Esta mentalidad ha llevado a PIUSI a expandir su territorio e inaugurar una oficina con equipamiento de última generación en los E.E. U.U. para proveer servicio al norte y centro América.*

*Compuesto de 200 empleados, PIUSI trabaja con un departamento de recursos e investigaciones interno y una red de ventas y respuestas que se expande 25.000 metros cuadrados y es parte de un área más amplia que abarca 40.000 metros cuadrados.*

*Actualmente PIUSI está presente en 120 países, dedicado a hallar soluciones para la transferencia y métrica de combustible, lubricantes y líquidos. PIUSI muestra su compromiso a sus clientes manteniendo firme en descubrir la tecnología más duradera y eficaz disponible.*





**PIUSI**  
USA INC ®

**CERTIFICATE OF COMPLIANCE**

Certificate Number: 20130424-E343449  
Report Reference: E343449-20130424  
Issue Date: 2013-APRIL-24

Issued to: Piusi USA Inc  
SUITE 104  
5553 ANGLERS AVE  
FORT LAUDERDALE FL 33312

This is to certify that representative samples of MOTORS FOR USE IN HAZARDOUS LOCATIONS

Electric Motors for Use in Hazardous (Classified) Locations; Class I, Group D, Model Nos. EX50 12V and EX50 120V.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 674, Electric Motors and Generators for Use in Hazardous (Classified) Locations  
CSA C22.2 No. 145-11, Electric Motors and Generators for Use in Hazardous (Classified) Locations  
See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Additional Information: Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada. The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers; the word "LISTED", a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.  
Look for the UL Listing Mark on the product.

William R. Carney  
William R. Carney, Director, North American Certification Programs  
UL LLC  
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL).  
Contact a local UL Customer Service Representative at [www.ul.com/contactus](http://www.ul.com/contactus)

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**EX50 120V**  
please  
**PIUSI**  
Electric motor for Hazardous Locations

**EX50 12V**  
**PIUSI**  
Electric motor for Hazardous Locations

**cUL US LISTED**  
Class I Group D L.N.  
120V 60Hz 1.7 A 2400 RPM 1/8  
Insulation Class F Duty min. 30 ON / 3 OFF  
▲ CAUTION: Automatic thermal protected motor

**cUL US LISTED**  
Class I Group D L.N.  
12V dc 17 A 2600 RPM 1/8 HP  
Insulation Class F Duty min. 30 ON/30 OFF  
▲ CAUTION: Automatic thermal protected motor / do not open when energized

**UL**

# EX50 DRUM

UL/CSA-certified transfer set for flammable liquids: gasoline, kerosene and diesel fuel. Pump with nozzle holder, easy to install on the barrel through a quick 2" coupling. A dispensing unit equipped with telescopic suction tube for direct connection to the tank that allows easy and clean use of the dispenser.



Grupo certificado UL/CSA para transferencia de líquidos inflamables: gasolina, queroseno y diésel. Bomba con porta pistola, fácil de instalar sobre un barril por medio de la conexión principal de 2". La unidad equipada con tubo telescopico de aspiración para la conexión directa al tanque permite el uso limpido y sencillo del dispensador.

- Sturdy and compact structure
- Cast iron body
- High efficiency pump that can deliver up to 13 gpm, with reduced absorption to ensure a long service life
- Anti-noise filter (EMC - electromagnetic compatibility)
- Flanged components: pump, meter and filters can be installed or replaced without the use of sealant, making the connection quick and safe
- Bypass valve built-in
- Thermal protection
- Suction unit with integrated filter

- Estructura fuerte y compacta
- Cuerpo de hierro fundido
- Bomba de alto rendimiento que puede suministrar hasta 50 l / min, con absorción reducida para asegurar larga vida
- Filtro anti-ruido (EMC - compatibilidad electromagnética)
- Componentes de reborde: bomba, medidor y filtro se pueden instalar o reemplazar sin la necesidad de un sellador. Esto permite una conexión rápida y segura
- Válvula de bypass incorporada
- Protección térmica
- Unidad de succión con filtro integrado



## PRODUCTS' RANGE | WEIGHT AND PACKAGING

| Code                 | Weight |      | Packaging   |                |         |
|----------------------|--------|------|-------------|----------------|---------|
|                      | kg     | lbs  | mm          | inch           | pcs/box |
| <b>without meter</b> |        |      |             |                |         |
| F00372000            | 10     | 22   | 600x400x290 | 23.6x13.7x11.4 | 1       |
| F00372010            | 10     | 22   | 600x400x290 | 23.6x13.7x11.4 | 1       |
| F00374000            | 10     | 22   | 600x400x290 | 23.6x13.7x11.4 | 1       |
| F00374010            | 10     | 22   | 600x400x290 | 23.6x13.7x11.4 | 1       |
| <b>with meter</b>    |        |      |             |                |         |
| F00375000            | 12     | 24,5 | 600x400x290 | 23.6x15.7x11.4 | 1       |
| F00375010            | 12     | 24,5 | 600x400x290 | 23.6x15.7x11.4 | 1       |
| F00376000            | 12     | 24,5 | 600x400x290 | 23.6x15.7x11.4 | 1       |
| F00376010            | 12     | 24,5 | 600x400x290 | 23.6x15.7x11.4 | 1       |



ANTIFREEZE

BIODIESEL

DIESEL

FOOD

GASOLINE

GREASE

KEROSENE

OIL

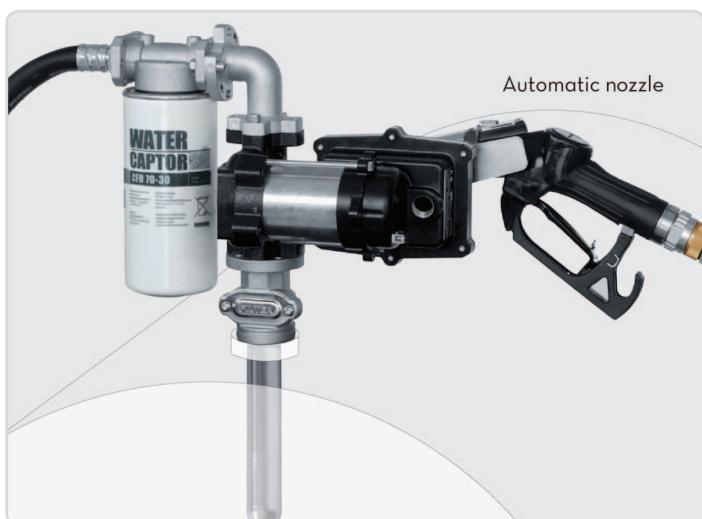
UREA

WATER

WINDSCREEN



**Flow-rate**  
up to  
**13**  
gpm



Automatic nozzle



Automatic nozzle

**FEATURES**

Water Filter Included



2" Connector Included



Hose Included



Manual Nozzle Available



Automatic Nozzle Included



Telescopic Pipe Included

Code OOO65003A

Code FOO613O20

max. 1100 mm

**UPON REQUEST**

Cable Gland Available



Metric Adaptor Available



Power Supply Cable Available

Code F18624000

Code F18156000

Code F18626000  
AWG 12 4 mt cable  
+ cable gland

Code F08934020

**PRODUCTS' RANGE** TECHNICAL DATA

| Code                 | Description                             | Fluids type | Flow-rate |     | Voltage  |         |            | Nozzle type | Meter type | Inlet | Hose length | ∅    |
|----------------------|---|-------------|-----------|-----|----------|---------|------------|-------------|------------|-------|-------------|------|
|                      |   |             | l/min     | gpm | AC V./Hz | DC Volt | Power Watt |             |            |       |             |      |
| <b>without meter</b> |   |             |           |     |          |         |            |             |            |       |             |      |
| F00372000            | DRUM EX50 12V DC ATEX + man. nozzle     | D G K       | 50        | 13  | 12       | 250     | 21         | Man.        | -          | 1"    | 4 m         | 3/4" |
| F00372010            | DRUM EX50 12V DC ATEX + aut. nozzle     | D G K       | 50        | 13  | 12       | 250     | 21         | Aut.        | -          | 1"    | 4 m         | 3/4" |
| F00374000            | DRUM EX50 230V ATEX + man. nozzle       | D G K       | 50        | 13  | 230/50   | 250     | 1          | Man.        | -          | 1"    | 4 m         | 3/4" |
| F00374010            | DRUM EX50 230V ATEX + aut. nozzle       | D G K       | 50        | 13  | 230/50   | 250     | 1          | Aut.        | -          | 1"    | 4 m         | 3/4" |
| <b>with meter</b>    |   |             |           |     |          |         |            |             |            |       |             |      |
| F00375000            | DRUM EX50 12V DC K33 ATEX + man. nozzle | D G K       | 50        | 13  | 12       | 250     | 21         | Man.        | K33        | 1"    | 4 m         | 3/4" |
| F00375010            | DRUM EX50 12V DC K33 ATEX + aut. nozzle | D G K       | 50        | 13  | 12       | 250     | 21         | Aut.        | K33        | 1"    | 4 m         | 3/4" |
| F00376000            | DRUM EX50 230V + K33 ATEX + man. nozzle | D G K       | 50        | 13  | 230/50   | 250     | 1          | Man.        | K33        | 1"    | 4 m         | 3/4" |
| F00376010            | DRUM EX50 230V + K33 ATEX + aut. nozzle | D G K       | 50        | 13  | 230/50   | 250     | 1          | Aut.        | K33        | 1"    | 4 m         | 3/4" |

# EX50 PUMP



Flow-rate  
up to  
**13**  
gpm

ANTIFREEZE

BIODIESEL

DIESEL

FOOD

GASOLINE

GREASE

KEROSENE

OIL

UREA

WATER

WINDSCREEN

Piusi EX50 satisfies the strict UL/CSA directive concerning the use of materials in potentially explosive atmospheres.

- Sturdy and compact structure
- Cast iron body
- High efficiency pump that can deliver up to 13 gpm, with reduced absorption to ensure a long service life
- Anti-noise filter (EMC - electromagnetic compatibility)
- Flanged components: pump, meter and filters can be installed or replaced without the use of sealant, making the connection quick and safe
- Bypass valve built-in
- Thermal protection
- Suction unit with integrated filter

Piusi EX50 satisface las normas de regulación de la aprobación UL y CSA en relación a materiales en atmósferas potencialmente explosivas.

- Estructura fuerte y compacta
- Cuerpo de hierro fundido
- Bomba de alto rendimiento que puede suministrar hasta 50 l / min, con absorción reducida para asegurar larga vida
- Filtro anti-ruido (EMC - compatibilidad electromagnética)
- Componentes de reborde: bomba, medidor y filtro se pueden instalar o reemplazar sin la necesidad de un sellador. Esto permite una conexión rápida y segura
- Válvula de bypass incorporada
- Protección térmica
- Unidad de succión con filtro integrado



EX50 KIT



EX50 PUMP

## FEATURES



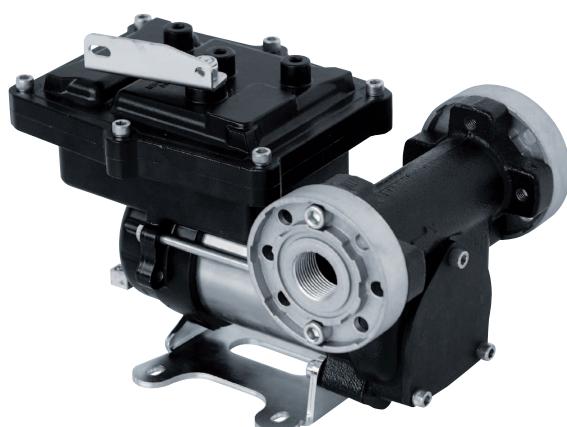
On/Off Switch  
Included



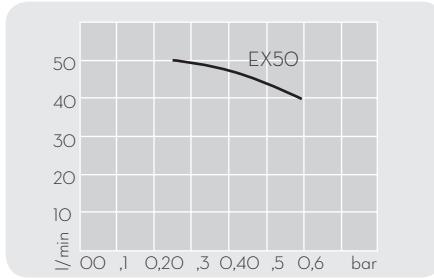
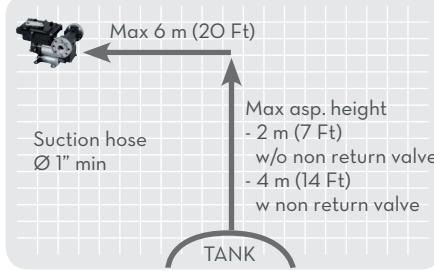
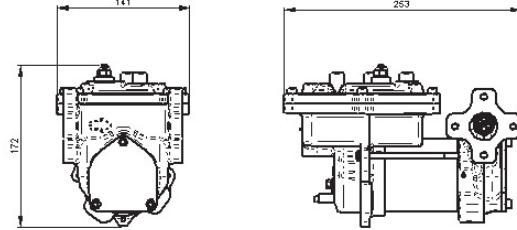
Flanged  
Connection



Compact and Sturdy  
Construction



## DIMENSIONS



## PRODUCTS' RANGE TECHNICAL DATA

| Code      | Description                | Fluids type | Flow-rate l/min | Flow-rate gpm | Voltage AC V/Hz DC Volt | Power Watt | Amp. max. | Duty cycle on/off min. | rpm  | Inlet BSP |
|-----------|----------------------------|-------------|-----------------|---------------|-------------------------|------------|-----------|------------------------|------|-----------|
| F00371000 | EX50 12V DC ATEX           | D G K       | 50              | 13            | 12                      | 250        | 21        | 30/60                  | 2700 | 1"        |
| F00372020 | Kit Drum EX50 12V DC ATEX  | D G K       | 50              | 13            | 12                      | 250        | 21        | 30/60                  | 2700 | 1"        |
| F00373000 | EX50 230V AC ATEX          | D G K       | 50              | 13            | 230/50                  | 250        | 1         | 30/60                  | 2700 | 1"        |
| F00374020 | Kit Drum EX50 230V AC ATEX | D G K       | 50              | 13            | 230/50                  | 250        | 1         | 30/60                  | 2700 | 1"        |

# K33 METER

The K33 is a new mechanical meter for accurate measuring of gasoline, kerosene and diesel. It meets the ATEX requirements, related to the use of materials in potentially explosive atmospheres. It is reliable, economical, easy to install and can be calibrated on-site. Furthermore, it can perform well under gravity thanks to the low flow resistance. The K33 ATEX meter can be installed in both rigid and flexible pipes or directly on pumps and tanks.

The equipment is classified as follows: Group II, category 2 G IIB T=85°C (T6), so the flow meter is suitable for working in areas classified as 1 and 2 in accordance with directive 99/92/CE.

**Flow-rate**

up to  
**32**  
gpm

**Accuracy**

+/-  
**1 %**

Nuevo medidor mecánico para gasolina, queroseno y diésel. Cumple con los requisitos de ATEX / IECEx, en relación a materiales con atmósferas potencialmente explosivas.

Es seguro, económico, fácil de instalar y se puede calibrar al momento de instalación. Además, funciona correctamente contra la gravedad gracias a la baja resistencia al flujo. El medidor K33 se puede instalar en ambas tuberías rígidas y flexibles, o directamente a las bombas o el tanque.



El equipo se clasifica de la siguiente forma: Grupo II, categoría 2 G IIB T = 85 °C (T6); por consiguiente, el medidor es ideal para funcionar en zonas clasificadas "1" y "2", según contempla el código 99/92/CE.

## PERFORMANCE

- 3-digit partial indicator (max. 999 liters), total 6 digits.
- Flow rates 5 - 32 gpm
- Accuracy +/- 1%
- Repeatability +/- 0.3%
- Operating pressure 50.7 psi
- Bursting pressure 407 psi

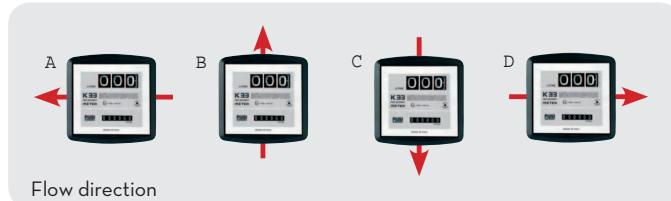
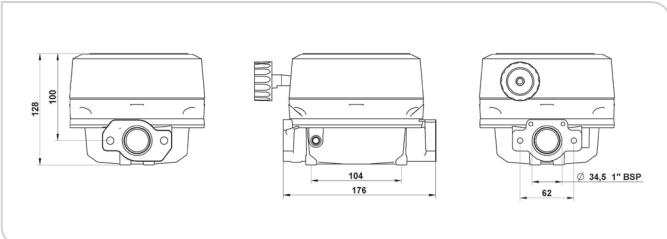
## PERFORMANCE

- Indicador parcial de 3 cifras (máx. 999 litros), total 6 cifras.
- Caudal 20 - 120 l/min.
- Precisión +/- 1%.
- Repetitividad +/- 0,3%.
- Presión de funcionamiento 3,5 bar.
- Presión de rotura 28 bar.

## FEATURES



## DIMENSIONS



## PRODUCTS' RANGE TECHNICAL DATA

| Code      | Description     | Fluids type | Flow direction | Flow-rate |        | Pressure |    | Inlet Outlet |
|-----------|-----------------|-------------|----------------|-----------|--------|----------|----|--------------|
| F00570000 | K33-ATEX Ver. A | D G K       | ←              | 20 - 120  | 5 - 32 | 3.5      | 50 | 1" BSP       |
| F00570010 | K33-ATEX Ver. B | D G K       | ↑              | 20 - 120  | 5 - 32 | 3.5      | 50 | 1" BSP       |
| F00570020 | K33-ATEX Ver. C | D G K       | ↓              | 20 - 120  | 5 - 32 | 3.5      | 50 | 1" BSP       |
| F00570030 | K33-ATEX Ver. D | D G K       | →              | 20 - 120  | 5 - 32 | 3.5      | 50 | 1" BSP       |

WATER | UREA | OIL | KEROSENE | GASOLINE | FOOD | DIESEL | BIODIESEL | ANTIFREEZE

WATER | UREA | OIL | KEROSENE | GASOLINE | FOOD | DIESEL | BIODIESEL | ANTIFREEZE

WINDSCREEN | WATER | UREA | OIL | KEROSENE | GASOLINE | FOOD | DIESEL | BIODIESEL | ANTIFREEZE



**PROFLOW**  
D Y N A M I C S

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Certified  
ISO 9001 - ISO 14001