



Metering Solutions for Aviation





Find out
MORE
about us



Isoil Impianti is certified to ISO 9001 quality standards and operates through a network of subsidiaries and representatives in key locations all around the world.

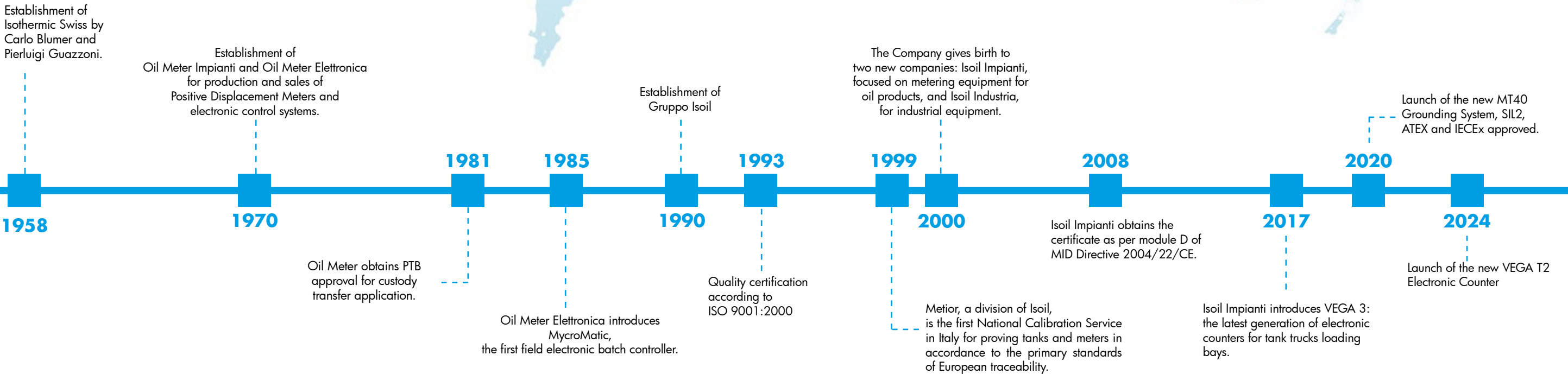
The solutions that count...

...this statement defines both the products and the values driving our Company's motivation to always do better.

- We aim to provide enhanced solutions and service, to meet the ever changing demands of our Customers and of the petrochemical industry.
- We want to provide our Customers with pioneering systems, measuring solutions and service, up-to-date with the latest technologies.
- We want to supply our Customers with solutions in step with the measurement automation and flow control field.
- We aim to establish long lasting relationships with our Customers based on mutual trust and understanding.

These are our goals. This commitment involves and brings together everyone in our company.

Our company is committed to expanding its presence throughout the world, offering its experience, gained in more than sixty years of operation and development. Aware of the importance of service in providing quality Customer Support, we are constantly selecting and training new agents and distributors, working with them and assisting them growing, in order to offer our customers the best possible service and after sales support. Thanks to our constant effort, we are Partner of many leading oil companies worldwide.



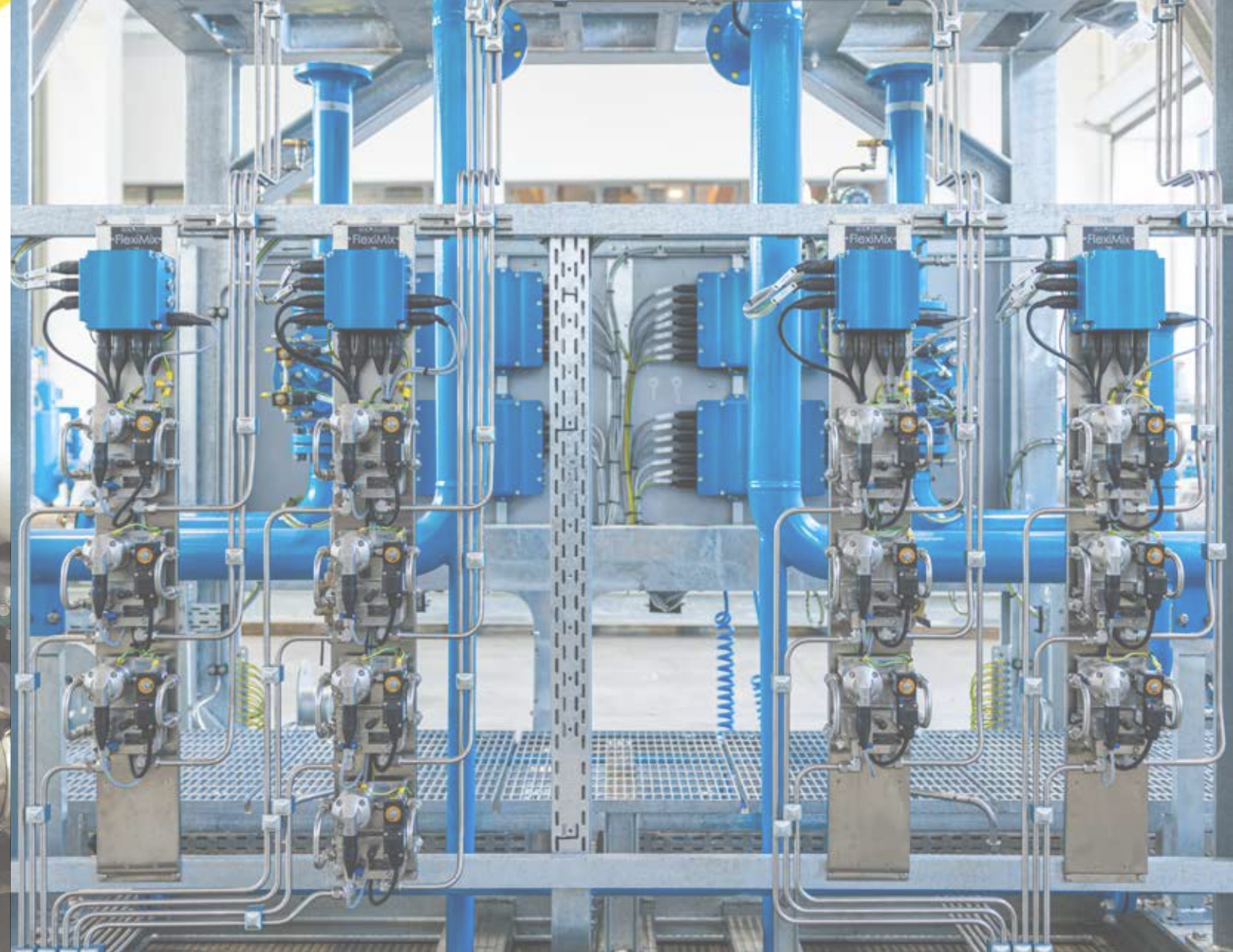


Metering Systems for Aircraft Refuelling Vehicles

ISOIL provides aviation fuel measuring systems for the management and handling of fuels within airports for refueling aircraft on board refuellers and hydrant dispensers.

Our meters and devices are designed to grant high accuracy standards and meet the needs of even such demanding applications as those of the aviation market.





Metering & Automation Solutions for Fixed Installations

ISOIL Impianti offers fixed installations designed specifically for aviation needs, ensuring precision, safety, and efficiency in every operation. Our solutions are tailored to meet the unique demands of the aviation sector, supporting the fueling of helicopters, and small planes as well as vehicle loading and unloading with unmatched reliability and accuracy.

Additive Injection

ISOIL Impianti specializes in advanced additive injection and blending systems tailored for the aviation industry, ensuring precise dosing of fuel additives and blending to enhance performance and safety.

Our solutions are designed to meet the stringent requirements of aviation fuel management, providing accurate and reliable additive injection and blending to maintain fuel quality and comply with industry standards.



Our 60 years experience

helps us understanding Customer's needs to meet the aviation requirements. ISOIL provides turnkey solutions that do not interfere with daily operations and enhances measuring efficiency and control with special attention to the latest safety procedures.

As a turnkey solution provider, we can design, build, test and commission advanced metering system. Our solutions include skid mounted systems that can be tested at our premises, thus allowing fast and trouble free on site installation.

Isoil Impianti products are certified for Explosion Proof Devices according to ATEX - IECEx, for Pressure Equipment (PED) and has MID Certification for custody transfer requirements in compliance with the OIML R117 recommendations. We also obtained certifications for China, Russia, South Africa, Kazakhstan, Australia and New Zealand and many other countries by Weight & Measures Offices. With such certifications and thanks to our independent certified calibration laboratory, we are a trustworthy Partner providing tailored reliable and cost effective metering solutions.

Technology, a trained and experienced staff of engineers and certified suppliers, are our key features to meet the customers' requirements.

IATA Strategic Partner



Calibration

Metior is the ISOIL Department whose Laboratory performs calibration activities. The Laboratory is accredited by ACCREDIA (the Italian Accreditation Body) within the "LAT" network of laboratories. The appointed calibration activities of Metior include PD meters and calibrated tanks (proving tanks) sectors.

ISOIL offers a full range of master meters for accurate calibration operations, available in many sizes and layouts: for fixed installations or mobile on trolleys, with mechanical registers or with electronic registers.



Aviation PD Meters

For the measurement of jet fuel, ISOIL provides a specific range of PD meters. ISOIL PD meters are ideal for use both on refueling vehicles (refuellers and hydrant dispensers), and for small aircraft and helicopter refueling modules.

BM AVIO series

Flow rate range:	120 to 1 400 litres/min (BM200) 200 to 2 600 litres/min (BM400) 300 to 4 000 litres/min (BM600)
Working pressure:	1 000 kPa (2 100 kPa Test Pressure)
Working temperature:	-10°C to +70°C (standard) -29°C to +70°C (low temperature)
Accuracy:	± 0.10%
Repeatability:	0.02%
Material - manifold, flanges and rotor:	Aluminium
Material - body and covers:	Carbon steel with corrosion prevention treatment
Material - vanes:	Graphite



SBM 32 - 75 - 150

Flow rate range:	30 to 350 litres/min (SBM 32) 50 to 500 litres/min (SBM 75) 100 to 1 300 litres/min (SBM 150)
Working pressure:	1 000 kPa (2 100 kPa Test Pressure)
Working temperature:	-10°C to +70°C (standard) -29°C to +70°C (SBM 32 low temperature) -30°C to +70°C (SBM 75-150 low temperature)
Accuracy:	± 0.15% (SBM 32-75) ± 0.10% (SBM 150)
Repeatability:	0.02% (SBM 150), 0.04% (SBM 32-75)
Material - manifold, body, flanges and rotor:	Carbon steel (SBM 32) Aluminium (SBM 75-150)
Material - covers:	Carbon steel with corrosion prevention treatment
Material - vanes:	Xenia/PTFE (SBM 32), Graphite (SBM 75-150)



EM6422 Pulse Emitter

Resolution:	256 pulses/revolution
Output:	Dual pulse in quadrature Can-bus transmission
Electrical Protection:	II 2 G Ex db IIB T6 Gb Tcable 80°C
Power supply:	5 to 30 VDC
Temperature Range:	-40°C to +75°C

VEGA T2 Flow Computer

VEGA T2 is the ultimate solution in terms of electronic register & controller for the into plane refuelling /defueling applications, either on mobile vehicles or on refuelling modules.

In terms of automation, VEGA T2 can interface, monitor and manage information from several sensors on the vehicle, such as:

- the water contamination sensors,
- the differential pressure transmitter or switch,
- the water in sump sensor,
- level sensors,
- deadman.



Thanks to its extended communication features (serial lines, Ethernet port, Bluetooth compatible peripheral and WiFi), VEGA T2 can make all the measure and automation information available to remote units such as on board computer or external devices for data acquisition and transmission. At the same time VEGA T2 drives a ticket printer directly, with legally relevant functions.



LFD-6 Large Figure Display

LFD-6 is a large digit display visible also from a distance, ATEX certified, and therefore suitable for installation in classified area, typically designed for use on aircraft refuellers in airports.



Master Meters

Master Meters are high-precision meters that speed up calibration operations as they can be placed in series with the meter to be calibrated, thus conveying the product to a recovery line or tank.

Master Meters can be mounted on trolleys with wheels so that they can also be transported by road to get as close as possible to the meter to be calibrated. For a high level of flexibility, they can also be equipped with additional instrumentation (thermometers, pressure switches) and hoses.



ISOVALVE Automatic Valves

ISOVALVES are diaphragm valves where the power required to change state comes from the line pressure, therefore they do not require the presence of electrical or pneumatic actuators.

They are available in size from 3" to 10" and with different functions:

- Two stage opening and closing or digital (Multistep),
- Flowrate control,
- Pressure control,
- Non return.



Strainer Air Separators

ISOIL offers a comprehensive range of basket and Y strainers and gas separators to protect the measuring instruments and ensure straightforward operation.



Fleximix - Additive injection System

FLEXIMIX additive injection system can manage up to 6 additives per loading arm granting precision of each operation.

The FLEXIMIX additive injection system includes advanced features, such as:

- Remote control operation;
- Automatic calibration;
- Flushing function for post-operation cleaning.



SBR Badge Reader

The SBR contactless badge reader ensures safe and efficient loading operations in classified areas. Electronic badges are read via radiofrequency and securely housed in the SBR during the entire process. Whenever the badge is removed operations are immediately stopped, enhancing safety and preventing fraud.



Printers

ISOIL offers a diverse range of solutions for printing measurement data, both for hauling applications (aircraft refuellers) as well as for fixed installations in control room and for safe zone.



MT40 Grounding System

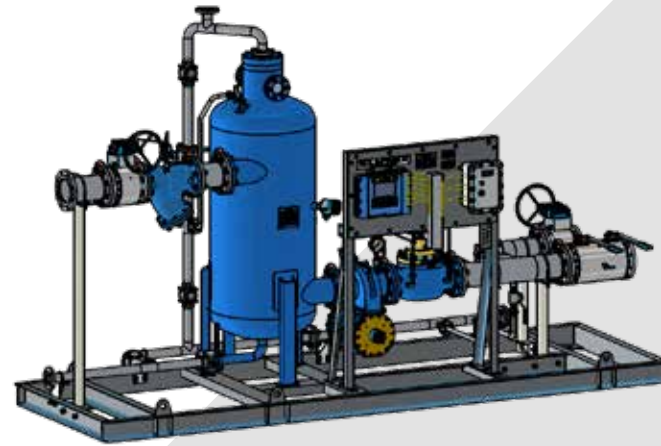
ISOIL MT40 Grounding System ensures safety of loading and unloading operations.

Capable of assuring connection at all times and constantly monitoring it to stop operations in the event of any interruption, the MT40 carries out the actual ground connection through a resistive check and also a capacitive check, thus checking that the clamp has actually been connected to a tank truck and not to other devices, thus preventing possible misuse. Loading authorization is only provided in the case both checks are positive and it is clearly shown on the color LED display.



Engineered Solutions

Design and production of technologically advanced flow measuring systems for loading, unloading, blending, and custody transfer for the aviation sector.



Aviation Refuelling Units

Refuelling units in a stainless steel cabinet complete with hose, dispensing gun and measuring system suitable for refueling helicopters and airplanes.





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