



A professional metering program offering first class service and maintenance

How important is metering to you?

The installation of flow meters is essential for any fiscal/data management system. However, without regular validation checks, data accuracy may become unreliable over time, resulting in:

- Over or under charging.
- Lack of confidence in metering readings and data accuracy/reliability.
- Product loss due to inconsistent quality or production downtime.
- Unreliable batch costings.
- Inability to substantiate readings.

Reliable operation – total peace of mind

Spirax Sarco's Metering Service Agreement is designed to ensure flow meters are properly maintained, reading correctly and recalibrated at the recommended intervals, offering:

- Planned maintenance of essential fiscal/data management equipment.
- Regular calibration of differential pressure transmitters, pressure and temperature transmitters with certification issued after each visit, providing proof of meter accuracy.
- A Planned Preventative Maintenance (PPM) program to help minimise costly downtime, and release maintenance staff for other duties.
- Total peace of mind that your equipment is being maintained by experienced original equipment manufacturer engineers.
- Assessment of key issues, such as correct installation, turndown ratio and density compensation, that can dramatically affect meter readings.
- Improved maintenance budget planning and forecasting.
- Planned recalibration of pipeline unit.

Metering Recalibration

Most pipeline metering units will need re-calibration at regular intervals throughout their working life. The time span between each re-calibration will vary from unit to unit, and will depend on such factors as importance of fiscal/data management, quality of fluid passing through the unit, operating times, etc.

On average Spirax Sarco recommends that the pipeline unit is re-calibrated every 2-3 years if accuracy is paramount. Details of Spirax Sarco's certified calibration facility are detailed overleaf.

Service Agreement Summary

- Scheduled visits for routine preventative maintenance and inspection.
- Discounted daily rate for service visits.
- Prioritised booking of service engineers.
- Spares delivered to your doorstep and fitted on the day.
- Optional 365 days per year 24-hour priority response.
- Technical support Monday to Friday.
- A service visit report for each scheduled visit.

Service Specification

Spirax Sarco service agreements deliver regular maintenance and servicing of metering equipment, carried out by specialist Spirax Sarco service engineers. An on-site assessment of metering system performance is carried out with the customer prior to the commencement of scope of work, which typically includes the following:

	Scope of Work
Assess installation is correct, i.e. clear pipe lengths, separator installed, etc.	✓
Visually inspect pipeline transducer units (lagging etc, permitting)	✓
Check and blow down impulse lines (where possible in accordance with site safety regulations)	✓
Check differential pressure transmitter for zero and span – results to be recorded on calibration sheet	✓
Check all analogue inputs and outputs conform to test certificates – results to be recorded on calibration sheet	✓
Check simulated pressure and temperature inputs conform to test certificates	✓
Record results of calibration of pressure and temperature transmitters on calibration sheet	✓
Terminal connections to be checked on readout unit and ancillary electronic equipment	✓
Check flow capacity is within turndown ratio of unit	✓
Check calibration coefficients are as per manufacturers factory settings	✓
Planned recalibration of pipeline unit (return to Spirax Sarco)	Optional
Written service report provided per visit, detailing findings, actions and recommendations/requirements	✓

Calibration Information

It is important that any flow meter is calibrated. All Spirax Sarco flow meters are calibrated on a high accuracy flow facility at Spirax Sarco's flow meter manufacturing facility in Cheltenham, UK. Designed and built by Spirax Sarco engineers in conjunction with the UK National Engineering Laboratories, it ensures that every flow meter meets the highest possible standards of accuracy.

The facility is capable of calibrating flow meters of between DN50 and DN300 and has a total flow capacity of 19,000 litres of water per minute.

Gravimetric and transfer standard electromagnetic flow meters are used. All flow data is electronically archived for future reference/recalibration.

Sophisticated clamping arrangements ensure the flow meters are concentric to the all 316L stainless steel pipework ensuring highly accurate calibration. The upstream and downstream pipework straight runs are well in excess of standard recommended lengths.

Note: Full calibration documentation is supplied as standard with every flow meter.



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