



IMPROVED ACCURACY

30 l/min  
8 gal/min

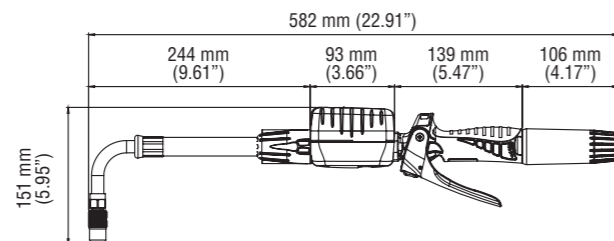
## ELECTRONIC-METERED CONTROL VALVE

Units of measure Batch	Liters, quarts, pints, gallons
Accuracy	+/- 0,5% of reading
Flow range	1-30 l/min (0,26-8 gal/min)
Max. working pressure	100 bar (1.450 psi)
Swivel inlet	1/2" BSP (F)
Operating temperature	-23 to 50°C (-10 to 120°F)
Battery	2 x 1,5 V alkaline AAA batteries
Compatible fluids	Lubricants, ATF, antifreeze (Glycol) and antifreeze water solutions
Max fluid viscosity	2.000 cSt
Wetted materials	Liquid Crystal Polymer (LCP), aluminium, stainless steel, NBR, zinc plated steel, brass
Weight (including gun and accessories)	1,3 kg

### MODELS AVAILABLE

HOSE END METER PART NUMBER	OUTLET NOZZLE TYPE	OUTLET NOZZLE PART NUMBER
365 536	60° rigid with quarter turn opening non-drip tip	369 232
365 535	Flexible outlet with 90° angled nozzle with automatic non-drip tip	369 230
365 534	Flexible outlet with 90° angled nozzle with quarter turn opening non-drip tip	369 228
365 532	Flexible outlet with automatic non-drip tip	369 224
365 537	Formable outlet with quarter turn opening non-drip tip	369 234

### Dimensions:



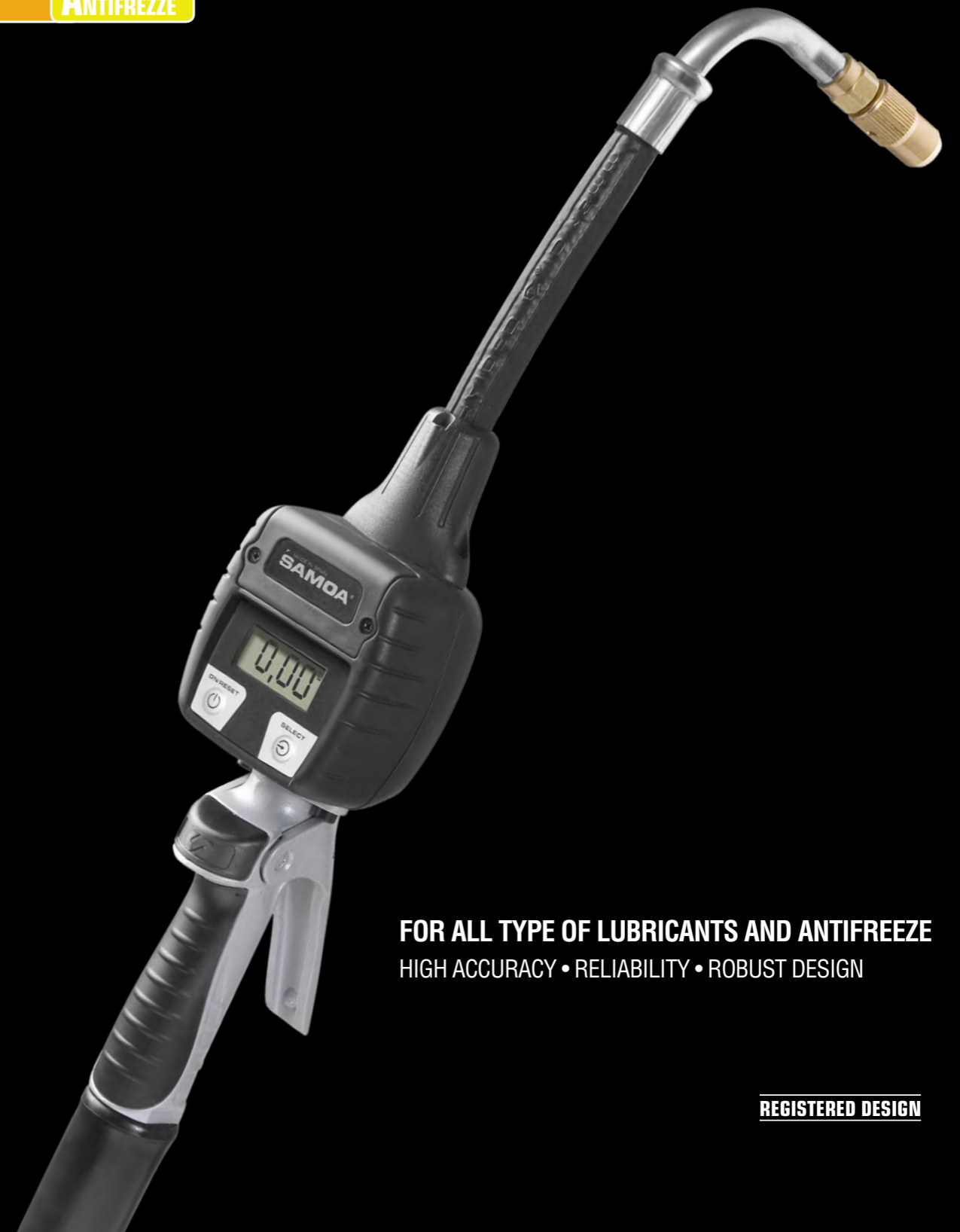
REGISTERED DESIGN



CONTROL MASTER **EC30**  
Metering & Control

## ELECTRONIC-METERED CONTROL VALVE

OIL ANTIFREZZE



FOR ALL TYPE OF LUBRICANTS AND ANTIFREEZE  
HIGH ACCURACY • RELIABILITY • ROBUST DESIGN



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REGISTERED DESIGN

## ELECTRONIC-METERED CONTROL VALVE. Setting new standards in accuracy, repeatability and performance.

SAMOA electronic-metered control valves have been specifically designed to measure and dispense volumes of all kind of synthetic and mineral oils and to lead the competition in technology and innovation. SAMOA manufactures a range of oval-gear electronic meters, which can be programmed to register in either liters, quarts, pints or gallons to cover the needs of fluid dispensing ranging from small repair shops to car dealerships, trucks, fleet, off-road, mining and marine maintenance facilities.

### ACCURATE

- No calibration required. Precision machined fluid chamber keeping tight tolerances, quality gears and stainless steel shafts, together with individual wet test for performance and accuracy, guarantees accurate dispensing regardless of the fluid viscosity, outside temperature and system pressure.
- Oval gear meter technology is adequate for high count precision and low flow resistance
- Multiple units of measures: liters, quarts, pints or gallons. Readout in 0,01 increments for precise fillings.
- Trip mode function: resettable totalizer function can operate as an economical simple fluid inventory control system.
- Non-resettable totalizer function.

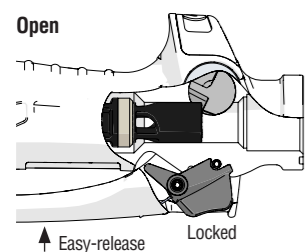
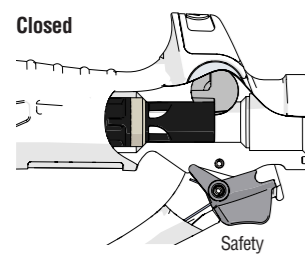
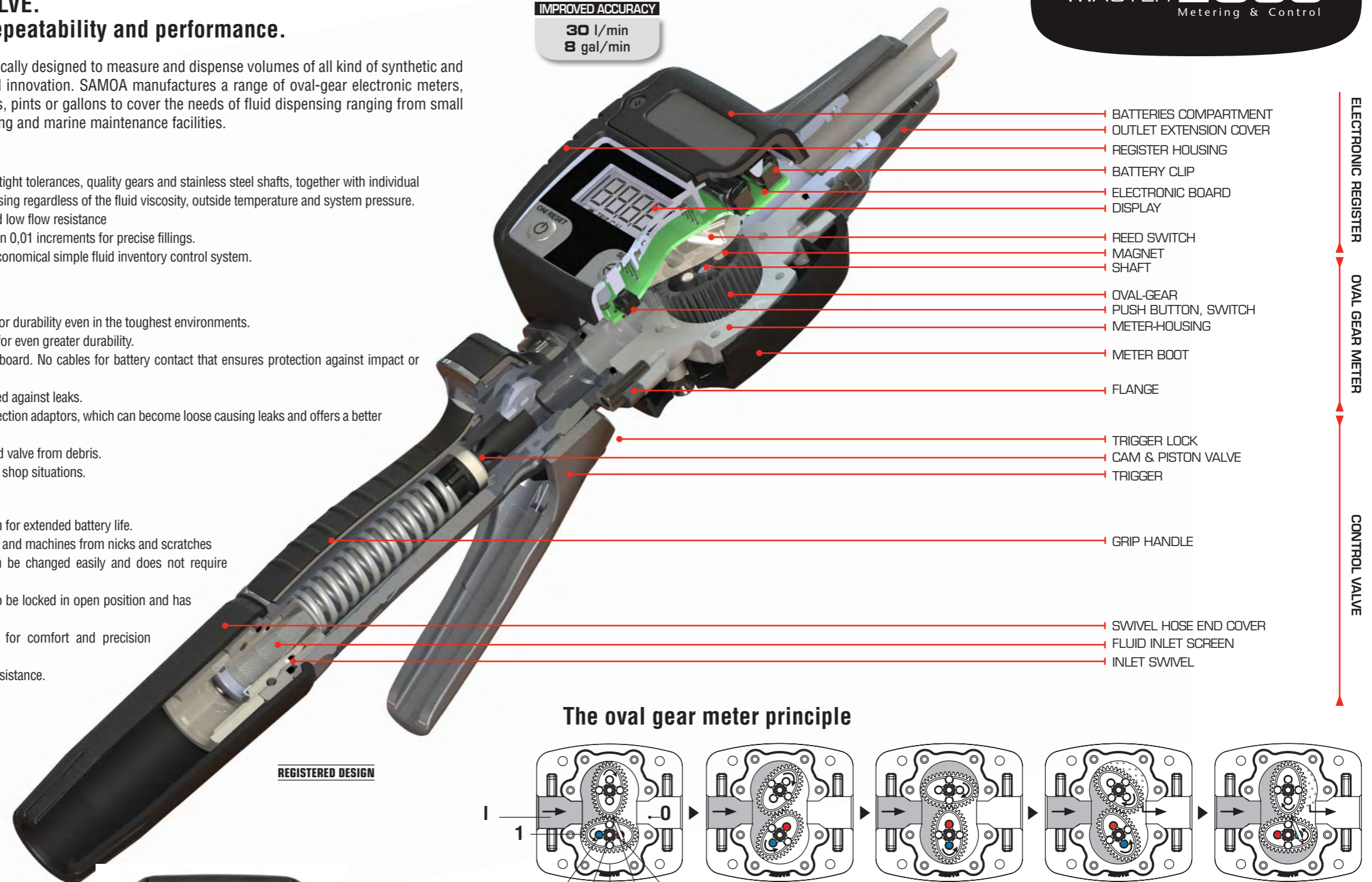
### TOUGH

- Polycarbonate register housing provides superb impact resistance for durability even in the toughest environments.
- Though Thermo Plastic Elastomer boot surrounds the entire meter for even greater durability.
- Sealed battery compartment: Battery clips mounted on electronic board. No cables for battery contact that ensures protection against impact or vibrations and when replacing batteries.
- Electronic register is isolated from fluid meter module to be protected against leaks.
- Flange coupling between valve and meter eliminates the use of connection adaptors, which can become loose causing leaks and offers a better integrated product.
- Large ported ball-bearing swivel with inlet screen protects meter and valve from debris.
- Extensively and rigorously field tested for reliable performance in all shop situations.

### EXTRA PERFORMANCE

- Low power consumption electronic module with auto-sleep function for extended battery life.
- Swivel, meter and outlet connection covers safeguards automobiles and machines from nicks and scratches
- Affordable reparability: Electronic board or complete register can be changed easily and does not require recalibration operation.
- Trigger lock button, prevents accidental dispense, allows the gun to be locked in open position and has an easy-release function.
- Aluminium body with lightweight ergonomic soft grip handles for comfort and precision balance.
- Cam & Piston valve design for superb control and minimum flow resistance.

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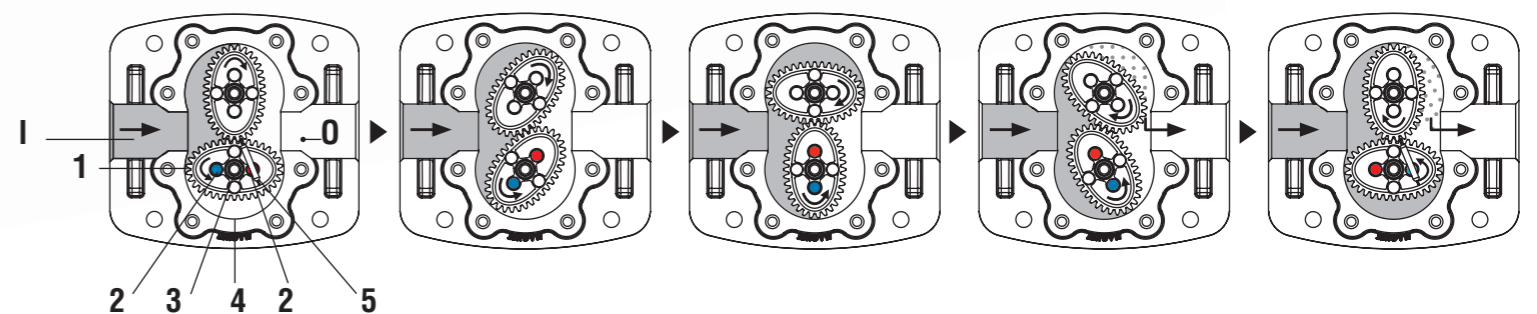


### THE CAM & PISTON VALVE

The new cam actuated piston-valve is designed for unrestricted flow and superb control. It incorporates an ergonomic trigger with safety, locking and easy-release functions.



### The oval gear meter principle



**I: Inlet Port**

**O: Outlet Port**

- 1 Oval-gear
- 2 Magnets
- 3 Shaft
- 4 Metering chamber wall
- 5 Reed switch

Oval-gear meter are volumetric measuring devices. The fluid to be measured enters the inlet port and passes through the metering chamber, where two oval gears act as measuring elements.

The flow pressure propels the internal gear assembly which rotates. Each full rotation of the pair of gears displaces a given volume. The number of rotations corresponds to an exact measure of the circulating volume. Controlled clearances between the gears and chamber walls ensure minimum leakage for accuracy.

One gear in the assembly contains two magnets; one at each end of the gear. These magnets activate a reed switch on the register board which provides a pulse signal to the microprocessor board and display, powered by two batteries. The number of revolutions counted is reflected on the 5-digit liquid crystal display in the selected unit of measure (liters, gallons, quarts or pints). For the current amount (batch) the register displays to the second decimal. A resettable partial totalizer (trip) and a total amount (total) can be alternatively selected.