

METERING • DIESEL, PETROL & KEROSENE

Fill-Rite 900 Series • 4-Wheel Mechanical Meter Range

The high flow meter in the mechanical range. A nutating disc chamber counts the fluid as it passes, with no power supply and nothing electronic to fail. Four digit counter reads the batch to 999.9 litres, cast aluminium body, and bolt-on port flanges in 1 inch or 1.5 inch BSP.



23-151

litres per minute

±2%

accuracy

50 psi

max working pressure

Key features

- Nutating disc chamber passes rust and small debris that jam other meter types.
- Four digit counter reads to 999.9 litres a batch, plus a lifetime totaliser.
- Cast aluminium body and cover, rated to 50 psi (3.5 bar) working pressure.
- Bolt-on port flanges, listed by Fill-Rite in 1 and 1.5 inch, NPT or BSPT.
- Cover assembly rotates to four positions for horizontal or vertical pipework.
- Marked cULus Listed, CE and Ex II 2G c T6. Made in the USA.



Models

MODEL	GO SKU	PORTS	BUILD
901CL	R1901L	1" BSP	Standard aluminium
901CL1.5	R1901L1.5	1.5" BSP	Standard aluminium
901CNL1.5	R1901NL1.5	1.5" BSP	Nickel plated

Specifications

Flow range	23-151 L/min · 6-40 GPM
Accuracy	±2% of reading
Repeatability	±0.38%
Max working pressure	50 psi · 3.5 bar
Operating temperature	-26 to 66 °C · -15 to 150 °F
Measuring principle	Nutating disc
Register	Mechanical, four digit, litres
Batch capacity	999.9 L before the counter rolls over
Totaliser	Non-resettable, records lifetime volume
Body material	Cast aluminium. Nickel plated on the 901CNL1.5
Seals	Fluorocarbon and Buna-N, fluorocarbon on nickel

● READING THIS TABLE

All three are litre register builds, so the counter and the totaliser both read in litres. Fill-Rite's range brochure calls the BSP build BSPP while their own 900 flange kits are listed as BSPT, so confirm the thread form before ordering adaptors.





Dimensions

MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
901CL	170 mm	221 mm	140 mm	3.40 kg
901CL1.5	170 mm	221 mm	140 mm	3.54 kg
901CNL1.5	165 mm	254 mm	152 mm	3.36 kg

• WHERE THESE FIGURES COME FROM

Fill-Rite publishes assembled dimensions per model and their figures vary between builds of the same casting. There is no published dimensional drawing for the 900, so measure the meter before you build a bracket.

Ports and flange kits

KIT	DESCRIPTION
KIT900PF1N	1 inch meter flange kit, NPT
KIT900PF1.5N	1.5 inch meter flange kit, NPT
KIT900PF1B	1 inch meter flange kit, BSPT
KIT900PF1.5B	1.5 inch meter flange kit, BSPT

Each kit is a pair of flanges with o-rings and attaching hardware. Ports are bolt-on.

Installation

- Supplied for horizontal pipework, left to right flow. An arrow on the casting shows it.
- Remove the four screws and rotate the cover assembly for vertical pipe.
- Seal every threaded joint with the appropriate sealant or sealant tape.
- Do not exceed 50 psi. A check valve without a relief valve can crack the body.
- Calibrate between 23 and 151 L/min against a container of known volume.





Fluid compatibility

Compatible

Diesel, petrol, kerosene, mineral turpentine, heptane and hexane. The nickel plated 901CNL1.5 adds biodiesel to B20 and non-potable water.

Wetted materials: aluminium, stainless steel, steel, nickel, Ryton, PTFE, polyester, fluorocarbon, Buna-N.

Not compatible

Bleach, hydrochloric acid, ink, sulfuric acid and salt water. Not for potable water, not for fluids containing water, and not for fuelling aircraft.

• BIOFUEL BLENDS

Fill-Rite's mechanical meter brochure lists B20 and E15 for the 900 Series. Their manual and their published model specifications list neither. Talk to us before you run blends.

Service parts

PART	DESCRIPTION
900KT	Metering and seal kit. Chamber, drive gears, seals
KIT900LR	Register kit, litres. Face plate, register, hardware
800G8870	Reset knob
KIT900PF1.5B	Meter flange kit, 1.5 inch BSPT

Safety and warranty

- The faceplate is marked not to be used to measure liquid for resale. These meters record your own usage, not trade measurement.
- Fit a filter on the meter outlet and use static wire conductive hose on fuel.
- Do not smoke or work near an open flame when handling flammable fluids.

• WARRANTY

Two years against defects in material and workmanship, per Fill-Rite's published 900 Series warranty. Nothing here limits your rights under the Australian Consumer Law.

