



elster V100 Water Meter



Product Details

The V100 (PSM) is the world's favourite domestic volumetric meter, with over 50 million already inservice in over 100 countries. Available in sizes from 15mm to 40mm, with flow rates of between 7.5l/h and 20m³/h.

Compliance with NMI R49-1 and Australian Standards

ORDER ONLINE



MEB7454



32mm & 40mm

PART NUMBER	DESCRIPTION	Size
50100/39	Qld/Vic Thread	20mm
50100/40	NSW Thread	20mm
50100/41	BSP Thread	20mm
50500/02	Qld/Vic Thread	25mm
50500/11	NSW Thread	25mm
SD4048-00	Oval Flange	32mm
SE4048-00	Oval Flange	40mm

SPECIFICATIONS

Maximum Working Pressure	1400 Kpa
Maximum Water Temperature	50°C
Register	Dry Dial
Output	Dry Contact Reed Switch 5L Pulse

QUICK SPECS	20mm	25mm	32mm	40mm
Overload Flow Rate (Q4) KL	5 KL	7.87 KL	12.5 KL	20 KL

STANDARDS AND APPROVALS

- WaterMark
- NMI R49-1



WaterMark Certificate

DESIGN FEATURES

- Positive displacement volumetric rotary piston principle of measurement ensures registration even at the very lowest rates of flow with maintained accuracy over the flow range
- Can be installed in horizontal, vertical or inclined pipelines without affecting accuracy.
- Requires no calibration throughout its lifespan.
- "O" ring seal placed between the measuring chamber and the meter body ensures that internal leaks which could by-pass the measuring chamber are eliminated.
- Use of advanced engineered plastics for the measuring chamber minimises wear and maintains reliability under all operating conditions
- A large surface area fine filter fitted on the measuring chamber inlet prevents damage by gathering solid particles. Due to its design, a partially obstructed filter will not affect the meter's accurate registration.

MATERIALS

All V100 (PSM-T) meters are manufactured from the highest quality materials ensuring maximum resistance to wear and corrosion. Copper alloys in contact with potable water are dezincification resistant and comply with the Australian Standard AS 2345. All other materials in contact with potable water comply with the Australian Standard AS/NZS 402

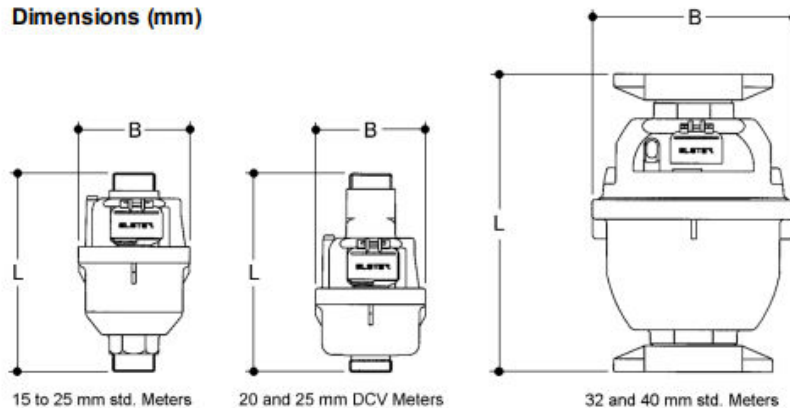


V100 (PSM-T) Performance to NMI R49-1 / Class 2

Nominal diameter (DN mm) - (Q ₃ /Q ₁ Ratio)		15 - (200)	20 - (200)	25 - (315)	32 - (250)	40 - (200)
Minimum flow rate - (Q ₁) ± 5%	L/h	20	20	20	40	80
Transitional flow rate - (Q ₂) ± 2%	L/h	32	32	32	64	128
Permanent flow rate - (Q ₃) ± 2%	kL/h	4	4	6.3	10	16
Overload flow rate - (Q ₄) ± 2%	kL/h	5	5	7.875	12.5	20
Minimum registration flow rate	L/h	3	3	13	22	37
Pressure loss – Std. / DCV Meter	kPa	24.9	24.5 / 69	23 / 65	17	23
@ flow rate	kL/h	2.5	2.5	3.5	5	7.5
Maximum working pressure	kPa	1400	1400	1400	1400	1400
Working temperature range	°C	0.3 to 30	0.3 to 30	0.3 to 30	0.3 to 30	0.3 to 30
Operating temperature range	°C	0.3 to 50	0.3 to 50	0.3 to 50	0.3 to 50	0.3 to 50
Minimum counter registration	L	0.1 ①	0.1 ①	0.1	0.1	0.1
Maximum counter registration	kL	99999.999 ①	99999.999 ①	99999.999	99999.999	99999.999
Pulse Output	Litre/pulse	5 ①	5 ①	5	5	5
Overall meter length (L ± 1 mm) ②	mm	133	153	177	189	231
Maximum meter diameter (B)	mm	87	87	101	121	160
Bare meter weight ③	kg	1.1	1.25	2.1	3.6	5.7

- Notes:**
- ① Technical data shown is for meters fitted with 5 x 3 number wheel counters. For meters fitted with 4 x 4 number wheel counters, the data for minimum and maximum registration plus pulse output would be 0.01, 9999.9999 and 0.5 respectively.
 - ② Overall lengths other than those shown are also available.
 - ③ All weights shown including 20 and 25mm DCV meters are unpacked without connections and are approximate only.

Dimensions (mm)



The Company's policy is one of continuous improvement and the right is reserved to modify the specifications without notice.