

R2000

Irrigation water meters

Max. Flow Rate (qimax) ML/Day		1.63	3.24	4.90	7.20	9.96	15.6	22.37	34.9	50.3
Size	mm	80	100	125	150	200	250	300	375	450

The R2000 is an in-line helical rotor type irrigation water meter. The robust design and use of durable materials for the moving components in contact with the water makes this meter quite tolerant to use with water containing low to medium levels of foreign particles (such as silt or sand).

The meter may be installed in horizontal or inclined pipelines (providing the counter is facing up) without loss of accuracy. Low head loss characteristics are due to minimum restriction and no change in flow direction as water passes through the meter.

For maintenance purposes the complete measuring stem assembly may be quickly replaced with a pre-calibrated stem assembly, or alternatively a blank cover may be fitted, making a by-pass unnecessary in most cases.

The magnetic drive between the undergear and sealed counter enables easy fitment of ancillary attachments at any time between measuring element and sealed copper-can counter without interrupting or isolating the water supply.

Standard Features

- The R2000 is available in a variety of alternate body configurations including - Flanged, Spigot, Weld-on, Saddle / Strap, Open Flow and "T Meter."
- The counter can be fitted in any one of three positions relative to the direction of flow.
- Flanges on flanged meters are drilled to Australian standard AS 2129 Table D. Other drilling patterns available on request.
- Maximum working pressure 1400 kPa.
- Maximum working temperature 50°C.

Measuring Stem Assembly

The measuring stem assembly consists of an impact resistant polypropylene rotor mounted on a 316 stainless steel spindle with integral worm meshing with a worm-wheel spindle assembly and mounted in a very robust gunmetal support stem. Two Alumina ceramic sleeves are bonded to the rotor spindle and run in Alumina ceramic bearings to give excellent wear resistance even when used with turbid water.

Clear flow passages have been designed into the stem assembly to allow "flushing" to occur. This design feature also allows any suspended solids within the stem assembly to drain out during periods where the meter is dry and ensures the internal mechanism will not silt-up.



Counter

The C701 counter mechanism which incorporates a bold seven figure straight reading register with centre sweep hand plus scratch resistant mineral glass lens is fully sealed in a "copper can" to IP68. This eliminates condensation and ensures clear and precision readings in any environment over the service life of the meter. The counter is contained within a robust housing with protective lid.

Remote / Electronic Reading

The standard R2000 provides the water industry with the flexibility to meet future demands. Today a conventional meter - tomorrow, whilst in use and without any disconnection, risk of component damage, need to re-calibrate and with no affect to meter performance or accuracy, it can be easily converted for electronic / remote readout capability by simply removing a plastic plug and fitting a magnetically operated (T130 / MEN 4071) signal sensor.

Materials

All R2000 meters are manufactured from the highest quality materials ensuring maximum resistance to wear and corrosion.

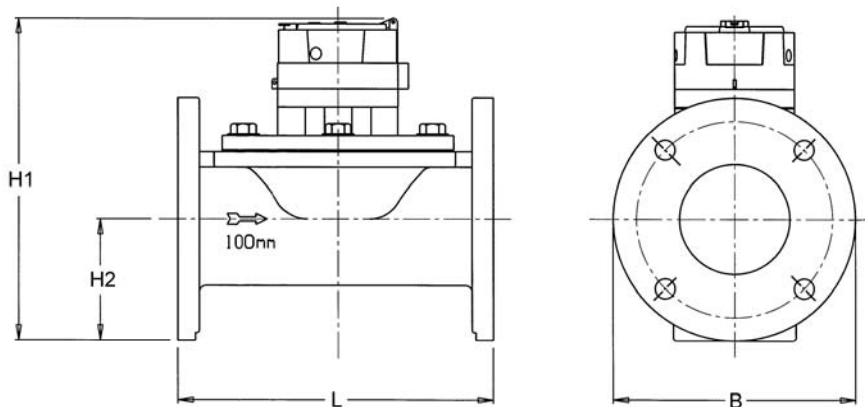
Optional Features

- T130 (MEN 4071) standard signal sensor for use with data loggers, remote counters and process control equipment.
- T131 (LRP), T134 (HRP) and T133 (DRP) pulse units for use with data loggers, rate of flow equipment and process control equipment.
- Alternative flange drilling provided on request.

R2000 Performance

Meter Size	mm	80	100	125	150	200	250	300	375	450
Maximum continuous flow rate (q _{cmax})	ML/Day (kL/h)	1.37 (57)	2.64 (110)	3.27 (136)	6.48 (270)	8.16 (340)	10.8 (450)	15.4 (640)	23.9 (994)	34.3 (1431)
Minimum flow rate (q _{min})	ML/Day (kL/h)	0.22 (9.0)	0.26 (11)	0.41 (17)	0.48 (20)	0.55 (23)	0.67 (28)	0.82 (34)	1.9 (80)	2.7 (115)
Maximum intermittent flow rate (q _{imax})	ML/Day (kL/h)	1.63 (68)	3.24 (135)	4.90 (204)	7.20 (300)	9.96 (415)	15.6 (650)	22.37 (932)	34.9 (1455)	50.3 (2095)
Accuracy (q _{min} to q _{imax})	%	± 2	± 2	± 2	± 2	± 2	± 2	± 2	± 2	± 2
Pressure loss at q _{imax}	kPa	7	6	4	4	4	4	3	2	1
Maximum working pressure	kPa	1400	1400	1400	1400	1400	1400	1400	1400	1400
Max. working temperature	°C	50	50	50	50	50	50	50	50	50
Pointer registration (per rev)	L	100	100	100	1000	1000	1000	1000	10000	10000
Max. counter registration	ML	999.9999	999.9999	999.9999	9999.999	9999.999	9999.999	9999.999	99999.99	99999.99
T130 Pulse output (L.H. slow)	L/pulse	1000	1000	1000	10000	10000	10000	10000	100000	100000
T130 Pulse output (R.H. fast)	L/pulse	100	100	100	1000	1000	1000	1000	10000	10000
T131 Pulse unit output	L/pulse	10	10	10	100	100	100	100	1000	1000
T134 Pulse unit output	L/pulse	1	1	1	10	10	10	10	100	100
Flanged Meter Dimensions										
Overall meter length (L)	mm	286	286	266	276	276	276	276	458	458
Bottom to top, lid closed (H1)	mm	275	296	361	374	402	492	517	645	729
Bottom to centre height (H2)	mm	93	114	126	139	168	202	227	275	320
Meter width (B)	mm	185	220	254	280	335	403	455	550	640
Approx. meter packed weight	kg	20	22	38	44	51	70	96	145	275
Notes:	1. For height with lid open - add 98 mm to dimension (H1). 2. T131 (LRP), T134 (HRP) and T133 (DRP) pulse units when fitted each add 29 mm in height to (H1).									

R2000 Dimensions



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

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