



# elster H4000

## Water Meter



### Product Details

The H4000 is a Woltmann-type meter designed for measuring bulk flows of cold potable water for revenue billing in commercial or industrial applications and distribution system monitoring. Available in sizes 40mm to 300mm for flow rates of between 0.35m<sup>3</sup>/h and 2000m<sup>3</sup>/h.

### Compliance with NMI R49-1 and Australian Standards



PART NUMBER	DESCRIPTION	Size
DBA4001-00	Table D	50mm
LUPPC4893	Table D	65mm
DCA4001-00	Table D	80mm
DDA4001-00	Table D	100mm
LUPPG4894	Table D	150mm
LUPPH4895	Table D	200mm
DJA4001-00	Table D	250mm
TBA	Table D	300mm



ORDER ONLINE

### STANDARDS AND APPROVALS

- NMI R49-1
- AS 4020

#### Key features

- Generous length integral flow straightening vanes to negate the effect of non-ideal upstream flow conditions.
- e<sup>sert</sup> Inductive register for improved output performance and security. The register can be rotated 359°.
- Accurate in both forward and reverse flow for network management.
- Flanges drilled to Australian Standard AS 4087 Table D. (Other drill patterns available on request).
- Maximum working pressure 1600 kPa.
- Maximum limiting temperature 50°C.
- Longer wear life for optimum accuracy.



e<sup>sert</sup> patented pulse target technology

#### REGISTER DETAILS

The Helix H4000 has a hermetically sealed register with kilolitres shown in a bolt straight reading drum and pointers indicating litres. An inductive resonant pulse target is also incorporated into the register optimising overall sensing capability.

## DESIGN FEATURES

- Extended low and high flow performance.
- Suitable for forward and reverse flow metering.
- ISO 4064 Class B specification for forward flow installations in the horizontal, vertical and inclined position.
- ISO 4064 Class B specification for the reverse flow for sizes up to 150mm
- Robust shroud and copper can register for long life and readability.
- Use of an in-line strainer to protect the rotor.



PR7 Pulse Module  
(not included)

## MATERIALS

All Helix H4000 meters are manufactured from the highest quality materials, ensuring maximum resistance to wear and corrosion. The meter body is powder coated for protection in all environments.

All materials in contact with potable water comply with the Australian Standard AS 4020



## Flow performance to NMI R49-1 / Class 2

Nominal diameter (DN mm)	Units	40	50	65	80	100	150	200	250	300	
Minimum flowrate - Q <sub>1</sub> ± 5%	kL/h	0.50	0.50	1.00	1.28	1.28	2.00	3.94	6.25	12.80	
Transitional flowrate - Q <sub>2</sub> ± 2%	kL/h	0.81	0.81	1.60	2.05	2.05	3.20	6.30	10.0	20.48	
Permanent flowrate - Q <sub>3</sub> ± 2%	kL/h	63.0	63.0	63.0	160	160	400	630	1000	1600	
Overload flowrate - Q <sub>4</sub> ± 2%	kL/h	79.0	79.0	79.0	200	200	500	787.5	1250	2000	
Q <sub>3</sub> /Q <sub>1</sub> ratio		125	125	63	125	125	200	160	160	125	
Minimum registration flowrate	kL/h	0.15	0.16	0.17	0.22	0.25	0.9	1.2	1.8	1.8	
Pressure loss @ Q <sub>3</sub>	kPa	39	24	19	18	18	15	12	15	37	
Maximum working pressure	kPa	1600	1600	1600	1600	1600	1600	1600	1600	1600	
Maximum limiting temperature	°C	50	50	50	50	50	50	50	50	50	
1st pointer registration (per revolution)	L	1	1	1	1	1	10	10	10	10	
Maximum counter registration	kL	999999	999999	999999	999999	999999	9999999	9999999	9999999	9999999	
PR7 Pulse Unit	L/pulse	1, 10, 100 or 1000					10, 100, 1000 or 10000				
Please consult an Elster sales office for further details											
Dimensions											
Overall meter length (L)	mm	311	311	200	413	483	500	520	450	500	
Meter height - Lid closed (H1)	mm	220	220	228	247	259	335	387	438	465	
Centreline height (H2)	mm	78	78	86	94	106	135	165	198	225	
Flange width (B)	mm	151	166	186	201	228	286	341	409	461	
Approx. meter weight (std. packed)	kg	13	14	15.5	22	26	47	64	95	120	

## Meter dimensions

