



iPERL[®] Australian Version

Static electromagnetic meter with remanent magnetic technology

Main characteristics

- Simplicity at its best for managing a meter fleet
- 15 year battery lifetime
- No moving parts
- Best in class R800 Q₃/Q₁ ratio for all sizes (MID certified)
- Eco-friendly design to dispose of lithium batteries at end of life
- Made from recyclable Composite materials
- Made for the toughest environments
- Fitted with Earthing Strap equivalent to 16 mm² of copper

APPLICATIONS

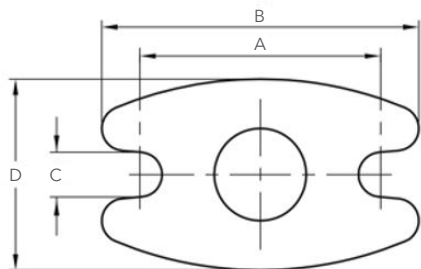
- Measurement for billing of
 - cold potable water up to 50 °C
 - grey water
 - irrigation water

Standards

- NMI R49

FLANGE DIMENSIONS (MM)

Size	DN32	DN40
A	84 ± 1.5	92 ± 1.5
B	110 ± 3.0	124 ± 3.0
C	14 ± 1.5	14 ± 1.5
D	65 ± 3.0	76 ± 3.0



Flange dimensions



iPERL DN 32



iPERL DN 25

TECHNICAL DATA

	DN20	DN25	DN32	DN40
Minimum Flow Q ₁	0.005	0.008	0.013	0.02
Transitional Flow Q ₂	0.008	0.013	0.02	0.032
Maximum continuous flow Q ₃	4	6.3	10	16
Overload Flow Q ₄	5	7.875	12.5	20
Flow rate ratio	800 ¹⁾			
Maximum Admissible Temperature	50 °C			
Maximum Admissible Pressure	1600 kPa			
Accuracy Class	2			
Electromagnetic Class	E1 & E2			
Environmental Class	B & O			
Flow Profile Sensitivity Class	U0/D0			
Press Loss Class	Dp40 (0.04 Mpa)			
Orientation	All positions			
Flow Direction	forward/reverse			
Body	Composite			
Meter Length	154	178	190	232
Connection type (AS 3565.1-2010)	Threaded	Threaded	Flanged	Flanged
	Nut Tail, diameter 32.50x14 TPI	Nut Tail, diameter 38.86x14 TPI	Oval	Oval
	Ball joint, diameter 36.60 x 14 TPI	Ball joint, diameter 43.76 x 14 TPI	see drawing	see drawing
Conductive continuity bridge	DZR brass connectors + brass strip (compliant with AS 2345)			
Power supply	Lithium metal battery			
Battery Lifetime	15 years (under normal operational conditions)			
Strainer	optional			
Non-return valve (AS 2845)	optional, Double Check Valve	optional, Double Check Valve	optional, 2 x Single Check Valves	optional, 2 x Single Check Valves
Minimum Water conductivity (microS/cm)	50			
Display	999 999.999 m ³ in 0.001 m ³			
Communication frequency/protocol	433 MHz, ISM / SensusRF, wM-Bus (OMS)			

¹⁾ also available at R=160, 250, 400

Other Versions

- 169 MHz/ wM-Bus (Wize)



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