



**Scottish  
Water**  
Always serving Scotland

# Scottish Water Meter Menu

**Prepared by**

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## **Foreword**

Scottish Water has made provision for the purchase and distribution of the metering stock through its distributor.

Only meters listed within this Meter Menu may be used.

Scottish Water has defined within this menu a standard meter which meets our minimum requirements.

The meter menu also details additional meters known as non - standard meters and these may be selected by the Licensed Provider. It should be noted that meters classed as non -standard may not necessarily be a stock item along with larger sized standard meters.

Additional information around the meter store \ meter menu is held within our Meter Code of practice sections 3.7 and 4.6

Within this meter menu Scottish Water has listed although this list is not exhaustive some specifications around each meter.

Each meter listed within this Menu has been allocated a unique reference which is required to be included within Data returns

Please note the costs listed within the Scottish Water Meter Only Contribution Schedules relate to the cost of the asset. Please be advised that this does not include cost of fittings or delivery where Electromagnetic meters have been purchased or where an electromagnetic meter with a power supply is requested, Scottish Water will not be responsible for arranging a power supply, this will be for the Licensed Provider to provide.

## Meter Size 15mm

<b>STANDARD METER 15MM</b>			
<b>Standard Meter (mm)</b> SW Ref; 003200000	<b>Meter Type</b>	<b>Meter Specifications</b>	
Polymer  This does not include a retro-fit Inductive pulse unit	Manifold V210P	Meter Thread Size	G1 1/2"
		Flow Ratio (Q3/Q1)	400
		Minimum Flow Rate - Q1	6.25 l/h
		Transitional Flow Rate - Q2	10 l/h
		Permanent Flow Rate - Q3	2.5 m3/h
		Overload Flow Rate - Q4	3.125 m3/h
		Number of Max Index Dials	5
		Meter Material	Polymer body
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	Yes
Is meter MID Compliant	Yes		
<b>Standard Meter (mm)</b> SW Ref; 003200001	<b>Meter Type</b>	<b>Meter Specifications</b>	
Polymer  This does not include a retro-fit Inductive pulse unit	Inline V200P	Meter Thread Size	G3/4"
		Flow Ratio (Q3/Q1)	400
		Minimum Flow Rate - Q1	6.25 l/h
		Transitional Flow Rate - Q2	10 l/h
		Permanent Flow Rate - Q3	2.5 m3/h
		Overload Flow Rate - Q4	3.125 m3/h
		Number of Max Index Dials	5
		Meter Material	Polymer body
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	No
Is meter MID Compliant	Yes		
<b>NON - STANDARD METER 15MM</b>			
<b>Non - Standard Meter (mm)</b> SW Ref; 003200002	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit PR6 Inductive pulse unit.	Manifold V210P	As listed in Manifold V210P above	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200003	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit PR6 Inductive pulse unit.	Inline V200P	As listed in Inline V200P above	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200004	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit TPR11 TPR11 AMR transmitter with integrated Wavenis radio module.	Manifold V210\TPR11	Meter Thread Size	G1 1/2"
		Flow Ratio (Q3/Q1)	160
		Minimum Flow Rate - Q1	15.625 l/hr
		Transitional Flow Rate - Q2	25 l/h
		Permanent Flow Rate - Q3	2.5 m3/h
		Overload Flow Rate - Q4	3.125 m3/h
		Number of Max Index Dials	5
		Meter Material	Polymer
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	Yes
Is meter MID Compliant	Yes		
<b>Non - Standard Meter (mm)</b> SW Ref; 003200005	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit TPR11 AMR transmitter with integrated Wavenis radio	Inline V200/TPR11	Meter Thread Size	G3/4"
		Flow Ratio (Q3/Q1)	160

module.		Minimum Flow Rate - Q1	15.625 l/h
		Transitional Flow Rate - Q2	25 l/h
		Permanent Flow Rate - Q3	2.5 m3/h
			3.125 m3/h
		Number of Max Index Dials	5
		Meter Material	Polymer
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>Non - Standard Meter (mm)</b> SW Ref; 003200006	<b>Meter Type</b>	<b>Meter Specifications</b>	
AMR 2 Hybrid radio meter	Manifold V210H	Meter Thread Size	G1 1/2"
		Flow Ratio (Q3/Q1)	400
		Minimum Flow Rate - Q1	6.25 l/h
		Transitional Flow Rate - Q2	10 l/h
		Permanent Flow Rate - Q3	2.5 m3/h
		Overload Flow Rate - Q4	3.125 m3/h
		Number of Max Index Dials	6
		Meter Material	Polymer
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	Yes
		Is meter MID Compliant	Yes
<b>Non - Standard Meter (mm)</b> SW Ref; 003200007	<b>Meter Type</b>	<b>Meter Specifications</b>	
AMR 2 Hybrid radio meter	Inline V200H	Meter Thread Size	G3/4"
		Flow Ratio (Q3/Q1)	400
		Minimum Flow Rate - Q1	6.25 l/h
		Transitional Flow Rate - Q2	10 l/h
		Permanent Flow Rate - Q3	2.5 m3/h
		Overload Flow Rate - Q4	3.125 m3/h
		Number of Max Index Dials	6
		Meter Material	Polymer
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
		Is meter MID Compliant	Yes
<b>Non - Standard Meter (mm)</b> SW Ref; 003200045	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter AQUA3 This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200046	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200047	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200048	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS	

## Meter Size 20mm

<b>STANDARD METER 20MM</b>			
<b>Standard Meter (mm)</b> SW Ref; 003200008	<b>Meter Type</b>	<b>Meter Specifications</b>	
Brass  This does not include a retro-fit PR6 Inductive pulse unit	Manifold V210	Meter Thread Size	G1 1/2"
		Flow Ratio (Q3/Q1)	315
		Minimum Flow Rate - Q1	12.7 l/h
		Transitional Flow Rate - Q2	20.32 l/h
		Permanent Flow Rate - Q3	4 m3/h
		Overload Flow Rate - Q4	5 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>Standard Meter (mm)</b> SW Ref; 003200009	<b>Meter Type</b>	<b>Meter Specifications</b>	
Polymer  This does not include a retro-fit PR6 Inductive pulse unit	Inline V200P	Meter Thread Size	G1"
		Flow Ratio (Q3/Q1)	315
		Minimum Flow Rate - Q1	12.7 l/h
		Transitional Flow Rate - Q2	20.32 l/h
		Permanent Flow Rate - Q3	4 m3/h
		Overload Flow Rate - Q4	5 m3/h
		Number of Max Index Dials	5
		Meter Material	Polymer
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>NON - STANDARD METER 20MM</b>			
<b>Non - Standard Meter (mm)</b> SW Ref; 003200010	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit PR6 Inductive pulse unit.	Manifold V210	As listed in Manifold V210 above	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200011	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit PR6 Inductive pulse unit.	Inline V200P	As listed in Inline V200P above	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200012	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit TPR11 TPR11 AMR transmitter with integrated Wavenis radio module.	Manifold V210/TPR11	Meter Thread Size	G1 1/2"
		Flow Ratio (Q3/Q1)	R160
		Minimum Flow Rate - Q1	25 l/h
		Transitional Flow Rate - Q2	40 l/h
		Permanent Flow Rate - Q3	4 m3/h
		Overload Flow Rate - Q4	5 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>Non - Standard Meter (mm)</b> SW Ref; 003200013	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit TPR11 TPR11 AMR transmitter with integrated Wavenis	Inline V200/TPR11	Meter Thread Size	G1"
		Flow Ratio (Q3/Q1)	160

radio module.		Minimum Flow Rate - Q1	25 l/h
		Transitional Flow Rate - Q2	40 l/h
		Permanent Flow Rate - Q3	4 m3/h
		Overload Flow Rate - Q4	5 m3/h
		Number of Max Index Dials	5
		Meter Material	Polymer
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
		Is meter MID Compliant	Yes
<b>Non - Standard Meter (mm)</b> SW Ref; 003200014	<b>Meter Type</b>	<b>Meter Specifications</b>	
AMR 2 Hybrid radio meter	Manifold V210H	Meter Thread Size	G1 1/2"
		Flow Ratio (Q3/Q1)	315
		Minimum Flow Rate - Q1	12.7 l/h
		Transitional Flow Rate - Q2	20.32 l/h
		Permanent Flow Rate - Q3	4 m3/h
		Overload Flow Rate - Q4	5 m3/h
		Number of Max Index Dials	6
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
		Is meter MID Compliant	Yes
<b>Non - Standard Meter (mm)</b> SW Ref; 003200015	<b>Meter Type</b>	<b>Meter Specifications</b>	
AMR 2 Hybrid radio meter	Inline V200H	Meter Thread Size	G1"
		Flow Ratio (Q3/Q1)	315
		Minimum Flow Rate - Q1	12.7 l/h
		Transitional Flow Rate - Q2	20.32 l/h
		Permanent Flow Rate - Q3	4 m3/h
		Overload Flow Rate - Q4	5 m3/h
		Number of Max Index Dials	6
		Meter Material	Polymer
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
		Is meter MID Compliant	Yes
<b>Non - Standard Meter (mm)</b> SW Ref; 003200049	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200050	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200051	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200052	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS	

## Meter Size 25mm

<b>STANDARD METER 25MM</b>			
<b>Standard Meter (mm)</b> SW Ref; 003200016	<b>Meter Type</b>	<b>Meter Specifications</b>	
Brass  This does not include a retro-fit PR6 Inductive pulse unit is attached	Manifold V210	Meter Thread Size	G2"
		Flow Ratio (Q3/Q1)	250
		Minimum Flow Rate - Q1	25.2 l/h
		Transitional Flow Rate - Q2	40.32 l/h
		Permanent Flow Rate - Q3	6.3 m3/h
		Overload Flow Rate - Q4	7.875 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>Standard Meter (mm)</b> SW Ref; 003200017	<b>Meter Type</b>	<b>Meter Specifications</b>	
Brass  This does not include a retro-fit PR6 Inductive pulse unit	Inline V200	Meter Thread Size	G1 1/4"
		Flow Ratio (Q3/Q1)	250
		Minimum Flow Rate - Q1	25.2 l/h
		Transitional Flow Rate - Q2	40.32 l/h
		Permanent Flow Rate - Q3	6.3 m3/h
		Overload Flow Rate - Q4	7.875 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>NON - STANDARD METER 25MM</b>			
<b>Non - Standard Meter (mm)</b> SW Ref; 003200018	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit PR6 Inductive pulse unit.	Manifold V210	As listed in Manifold V210 above	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200019	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit TPR11 TPR11 AMR transmitter with integrated Wavenis radio module.	Manifold V210/TRP11	Meter Thread Size	G2"
		Flow Ratio (Q3/Q1)	R160
		Minimum Flow Rate - Q1	39.375 l/h
		Transitional Flow Rate - Q2	63 l/h
		Permanent Flow Rate - Q3	6.3 m3/h
		Overload Flow Rate - Q4	7.875 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>Non - Standard Meter (mm)</b> SW Ref; 003200020	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit TPR11 TPR11 AMR transmitter with integrated Wavenis radio module.	Inline V200/TPR11	Meter Thread Size	G1 1/4"
		Flow Ratio (Q3/Q1)	R160
		Minimum Flow Rate - Q1	39.375 l/h
		Transitional Flow Rate - Q2	63 l/h
		Permanent Flow Rate - Q3	6.3 m3/h
		Overload Flow Rate - Q4	7.875 m3/h
Number of Max Index Dials	5		



		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
		Is meter MID Compliant	Yes
<b>Non - Standard Meter (mm)</b> SW Ref; 003200021	<b>Meter Type</b>	<b>Meter Specifications</b>	
AMR 2 Hybrid radio meter	Manifold V210H	Meter Thread Size	G2"
		Flow Ratio (Q3/Q1)	R160
		Minimum Flow Rate - Q1	39.375 l/h
		Transitional Flow Rate - Q2	63 l/h
		Permanent Flow Rate - Q3	6.3 m3/h
		Overload Flow Rate - Q4	7.875 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
		Is meter MID Compliant	Yes
<b>Non - Standard Meter (mm)</b> SW Ref; 003200022	<b>Meter Type</b>	<b>Meter Specifications</b>	
AMR 2 Hybrid radio meter	Inline V200H	Meter Thread Size	G1 1/4"
		Flow Ratio (Q3/Q1)	R160
		Minimum Flow Rate - Q1	39.375 l/h
		Transitional Flow Rate - Q2	63 l/h
		Permanent Flow Rate - Q3	6.3 m3/h
		Overload Flow Rate - Q4	7.875 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
		Is meter MID Compliant	Yes
<b>Non - Standard Meter (mm)</b> SW Ref; 003200053	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200054	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB Does not include cost of mains	Aquamaster 3	Mains Full Bore Class 1 Specification	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200055	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200056	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB Does not include cost of mains	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS	

## Meter Size 30mm

<b>STANDARD METER 30MM</b>			
<b>Standard Meter (mm)</b> SW Ref; 003200023	<b>Meter Type</b>	<b>Meter Specifications</b>	
Brass  This does not include a retro-fit PR6 Inductive pulse unit	Inline V200	Meter Thread Size	G1 1/2"
		Flow Ratio (Q3/Q1)	R160
		Minimum Flow Rate - Q1	62.5 l/h
		Transitional Flow Rate - Q2	100 l/h
		Permanent Flow Rate - Q3	10 m3/h
		Overload Flow Rate - Q4	12.5 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>NON - STANDARD METER 30MM</b>			
<b>Non - Standard Meter (mm)</b> SW Ref; 003200024	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit PR6 Inductive pulse unit.	Inline V200	As listed in Inline V200 above	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200025	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit TPR11 TPR11 AMR transmitter with integrated Wavenis radio module.	Inline V200/TPR11	Meter Thread Size	G1 1/2"
		Flow Ratio (Q3/Q1)	R160
		Minimum Flow Rate - Q1	62.5 l/h
		Transitional Flow Rate - Q2	100 l/h
		Permanent Flow Rate - Q3	10 m3/h
		Overload Flow Rate - Q4	12.5 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>Non - Standard Meter (mm)</b> SW Ref; 003200026	<b>Meter Type</b>	<b>Meter Specifications</b>	
AMR 2 Hybrid radio meter	Inline V200H	Meter Thread Size	G1 1/2"
		Flow Ratio (Q3/Q1)	R160
		Minimum Flow Rate - Q1	62.5 l/h
		Transitional Flow Rate - Q2	100 l/h
		Permanent Flow Rate - Q3	10 m3/h
		Overload Flow Rate - Q4	12.5 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		

## Meter Size 40mm

<b>STANDARD METER 40MM</b>			
<b>Standard Meter (mm)</b> SW Ref; 003200028	<b>Meter Type</b>	<b>Meter Specifications</b>	
Cast Iron  This does not include a retro-fit PR7 Inductive pulse unit	Helix 4000	Meter Thread Size	NP16 Flanged
		Flow Ratio (Q3/Q1)	R125
		Minimum Flow Rate - Q1	504 l/h
		Transitional Flow Rate - Q2	806 l/h
		Permanent Flow Rate - Q3	63 m3/h
		Overload Flow Rate - Q4	78.75 m3/h
		Number of Max Index Dials	6
		Meter Material	Cast Iron
		Output Pulse l/s	1 pulse/10 litres
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>Standard Meter (mm)</b> SW Ref; 003200027	<b>Meter Type</b>	<b>Meter Specifications</b>	
Brass  This does not include a retro-fit PR6 Inductive pulse unit	Inline V200	Meter Thread Size	G2"
		Flow Ratio (Q3/Q1)	R160
		Minimum Flow Rate - Q1	62.5 l/h
		Transitional Flow Rate - Q2	100 l/h
		Permanent Flow Rate - Q3	10 m3/h
		Overload Flow Rate - Q4	12.5 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
		Is meter WRAS approved for contaminated land	N/R
Is meter MID Compliant	Yes		
<b>Standard Meter (mm)</b> SW Ref; 003200029	<b>Meter Type</b>	<b>Meter Specifications</b>	
Interchangeable Mechanism to suit Helix 4000 including body O ring This does not include a retro-fit PR7 Inductive pulse unit	Mechanism	As listed in Helix 4000 above	
<b>NON - STANDARD METER 40MM</b>			
<b>Non - Standard Meter (mm)</b> SW Ref; 003200031	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit PR7 Inductive pulse unit.	Helix 4000	As listed in Helix 4000 above	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200030	<b>Meter Type</b>	<b>Meter Specifications</b>	
AMR 2 Hybrid radio meter	Inline V200H	Meter Thread Size	G2"
		Flow Ratio (Q3/Q1)	R160
		Minimum Flow Rate - Q1	100 l/h
		Transitional Flow Rate - Q2	160 l/h
		Permanent Flow Rate - Q3	16 m3/h
		Overload Flow Rate - Q4	20 m3/h
		Number of Max Index Dials	5
		Meter Material	Brass
		Output Pulse l/s	1 pulse/litre
Is meter WRAS approved for contaminated land	N/A		
<b>Non - Standard Meter (mm)</b> SW Ref; 003200057	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore	

		Class 1 Specification
<b>Non - Standard Meter (mm)</b> SW Ref; 003200058	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification
<b>Non - Standard Meter (mm)</b> SW Ref; 003200059	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS
<b>Non - Standard Meter (mm)</b> SW Ref; 003200060	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS

## Meter Size 50mm

<b>STANDARD METER 50MM</b>			
<b>Standard Meter (mm)</b> SW Ref; 003200032	<b>Meter Type</b>	<b>Meter Specifications</b>	
Cast Iron  This does not include a retro-fit PR7 Inductive pulse unit	Helix 4000	Meter Thread Size	NP16 Flanged
		Flow Ratio (Q3/Q1)	R125
		Minimum Flow Rate - Q1	504 l/h
		Transitional Flow Rate - Q2	806 l.h
		Permanent Flow Rate - Q3	63 m3/h
		Overload Flow Rate - Q4	78.75 m3/h
		Number of Max Index Dials	6
		Meter Material	Cast Iron
		Output Pulse l/s	1 pulse/10 litres
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>Standard Meter (mm)</b> SW Ref; 003200033	<b>Meter Type</b>	<b>Meter Specifications</b>	
Interchangeable Mechanism to suit n Helix 4000 including body O ring This does not include a retro-fit PR7 Inductive pulse unit	Mechanism	As listed in Helix 4000 above	
<b>NON - STANDARD METER 50MM</b>			
<b>Non - Standard Meter (mm)</b> SW Ref; 003200034	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit PR7 Inductive pulse unit.	Helix 4000/TPR7	As listed in Helix 4000 above	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200061	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200062	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200063	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200064	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS	

## Meter Size 80mm

<b>STANDARD METER 80MM</b>																								
<b>Standard Meter (mm)</b> SW Ref; 003200035	<b>Meter Type</b>	<b>Meter Specifications</b>																						
Cast Iron	Helix 4000	<table border="1"> <tr> <td>Meter Thread Size</td> <td>NP16 Flanged</td> </tr> <tr> <td>Flow Ratio (Q3/Q1)</td> <td>R125</td> </tr> <tr> <td>Minimum Flow Rate - Q1</td> <td>1280 l/h</td> </tr> <tr> <td>Transitional Flow Rate - Q2</td> <td>2048 l/h</td> </tr> <tr> <td>Permanent Flow Rate - Q3</td> <td>160 m3/h</td> </tr> <tr> <td>Overload Flow Rate - Q4</td> <td>200 m3/h</td> </tr> <tr> <td>Number of Max Index Dials</td> <td>6</td> </tr> <tr> <td>Meter Material</td> <td>Cast Iron</td> </tr> <tr> <td>Output Pulse l/s</td> <td>1 pulse/10 litres</td> </tr> <tr> <td>Is meter WRAS approved for contaminated land</td> <td>N/A</td> </tr> <tr> <td>Is meter MID Compliant</td> <td>Yes</td> </tr> </table>	Meter Thread Size	NP16 Flanged	Flow Ratio (Q3/Q1)	R125	Minimum Flow Rate - Q1	1280 l/h	Transitional Flow Rate - Q2	2048 l/h	Permanent Flow Rate - Q3	160 m3/h	Overload Flow Rate - Q4	200 m3/h	Number of Max Index Dials	6	Meter Material	Cast Iron	Output Pulse l/s	1 pulse/10 litres	Is meter WRAS approved for contaminated land	N/A	Is meter MID Compliant	Yes
Meter Thread Size	NP16 Flanged																							
Flow Ratio (Q3/Q1)	R125																							
Minimum Flow Rate - Q1	1280 l/h																							
Transitional Flow Rate - Q2	2048 l/h																							
Permanent Flow Rate - Q3	160 m3/h																							
Overload Flow Rate - Q4	200 m3/h																							
Number of Max Index Dials	6																							
Meter Material	Cast Iron																							
Output Pulse l/s	1 pulse/10 litres																							
Is meter WRAS approved for contaminated land	N/A																							
Is meter MID Compliant	Yes																							
This does not include a retro-fit PR7 Inductive pulse unit																								
<b>Standard Meter (mm)</b> SW Ref; 003200036	<b>Meter Type</b>	<b>Meter Specifications</b>																						
Interchangeable Mechanism to suit n Helix 4000 including body O ring This does not include a retro-fit PR7 Inductive pulse unit	Mechanism	As listed in Helix 4000 above																						
<b>NON - STANDARD METER 80MM</b>																								
<b>Non - Standard Meter (mm)</b> SW Ref; 003200037	<b>Meter Type</b>	<b>Meter Specifications</b>																						
This includes a retro-fit PR7 Inductive pulse unit.	Helix 4000/TPR7	As listed in Helix 4000 above																						
<b>Non - Standard Meter (mm)</b> SW Ref; 003200065	<b>Meter Type</b>	<b>Meter Specifications</b>																						
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification																						
<b>Non - Standard Meter (mm)</b> SW Ref; 003200066	<b>Meter Type</b>	<b>Meter Specifications</b>																						
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification																						
<b>Non - Standard Meter (mm)</b> SW Ref; 003200067	<b>Meter Type</b>	<b>Meter Specifications</b>																						
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS																						
<b>Non - Standard Meter (mm)</b> SW Ref; 003200068	<b>Meter Type</b>	<b>Meter Specifications</b>																						
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS																						

## Meter Size 100mm

<b>STANDARD METER 100MM</b>			
<b>Standard Meter (mm)</b> SW Ref; 003200038	<b>Meter Type</b>	<b>Meter Specifications</b>	
Cast Iron  This does not include a retro-fit PR7 Inductive pulse unit	Helix 4000	Meter Thread Size	NP16 Flanged
		Flow Ratio (Q3/Q1)	R125
		Minimum Flow Rate - Q1	1280 l/h
		Transitional Flow Rate - Q2	2048 l/h
		Permanent Flow Rate - Q3	160 m3/h
		Overload Flow Rate - Q4	200 m3/h
		Number of Max Index Dials	6
		Meter Material	Cast Iron
		Output Pulse l/s	1 pulse/10 litres
		Is meter WRAS approved for contaminated land	N/A
Is meter MID Compliant	Yes		
<b>Standard Meter (mm)</b> SW Ref; 003200039	<b>Meter Type</b>	<b>Meter Specifications</b>	
Interchangeable Mechanism to suit n Helix 4000 including body O ring  This does not include a retro-fit PR7 Inductive pulse unit	Mechanism	As listed in Helix 4000 above	
<b>NON - STANDARD METER 100MM</b>			
<b>Non - Standard Meter (mm)</b> SW Ref; 003200040	<b>Meter Type</b>	<b>Meter Specifications</b>	
This includes a retro-fit PR7 Inductive pulse unit.	Helix 4000/TPR7	As listed in Helix 4000 above	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200069	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200070	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200071	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS	
<b>Non - Standard Meter (mm)</b> SW Ref; 003200072	<b>Meter Type</b>	<b>Meter Specifications</b>	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS	

### Meter Size 150mm

<b>STANDARD METER 350MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200073	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification
<b>NON - STANDARD METER 350MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200074	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification
<b>Non - Standard Meter (mm)</b> SW Ref; 003200075	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS
<b>Non - Standard Meter (mm)</b> SW Ref; 003200076	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS



### Meter Size 200mm

<b>STANDARD METER 350MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200077	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification
<b>NON - STANDARD METER 350MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200078	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification
<b>Non - Standard Meter (mm)</b> SW Ref; 003200079	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS
<b>Non - Standard Meter (mm)</b> SW Ref; 003200080	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS

### Meter Size 250mm

<b>STANDARD METER 350MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200081	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification
<b>NON - STANDARD METER 350MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200082	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of mains	Aquamaster 3	Mains Full Bore Class 1 Specification
<b>Non - Standard Meter (mm)</b> SW Ref; 003200083	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS
<b>Non - Standard Meter (mm)</b> SW Ref; 003200084	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS

### Meter Size 300mm

<b>STANDARD METER 350MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200085	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification
<b>NON - STANDARD METER 350MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200086	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification
<b>Non - Standard Meter (mm)</b> SW Ref; 003200087	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS
<b>Non - Standard Meter (mm)</b> SW Ref; 003200088	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS

## Meter Size 350mm

<b>STANDARD METER 350MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200089	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification
<b>NON - STANDARD METER 350MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200090	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification
<b>Non - Standard Meter (mm)</b> SW Ref; 003200091	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS
<b>Non - Standard Meter (mm)</b> SW Ref; 003200092	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS

## Meter Size 400mm

<b>STANDARD METER 400MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200093	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification
<b>NON - STANDARD METER 400MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200094	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification
<b>Non - Standard Meter (mm)</b> SW Ref; 003200095	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS
<b>Non - Standard Meter (mm)</b> SW Ref; 003200096	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS

## Meter Size 450mm

<b>STANDARD METER 450MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200097	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification
<b>NON - STANDARD METER 450MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200098	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification
<b>Non - Standard Meter (mm)</b> SW Ref; 003200099	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS
<b>Non - Standard Meter (mm)</b> SW Ref; 003200100	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS

## Meter Size 500mm

<b>STANDARD METER 500MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200101	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification
<b>NON - STANDARD METER 500MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200102	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification
<b>Non - Standard Meter (mm)</b> SW Ref; 003200103	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS
<b>Non - Standard Meter (mm)</b> SW Ref; 003200104	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS

## Meter Size 600mm

<b>STANDARD METER 600MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200105	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification
<b>NON - STANDARD METER 600MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200106	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification
<b>Non - Standard Meter (mm)</b> SW Ref; 003200107	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS
<b>Non - Standard Meter (mm)</b> SW Ref; 003200108	<b>Meter Type</b>	<b>Meter Specifications</b>
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS



## Combination Meter Size 80mm x 20mm

<b>STANDARD METER COMBINATION 80MM X 20MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200041	<b>Meter Type</b>	<b>Meter Specifications</b>
Meter Name	C4000 main meter	V220 By-pass meter
Meter Size	80mm	20mm
Meter Type	Woltmann	Manifold
Meter Thread Size	NP16 Flanged	
Flow Ratio (Q3/Q1)	R2000	
Minimum Flow Rate - Q1		32 l/h
Transitional Flow Rate - Q2		50 l/h
Permanent Flow Rate - Q3	63 m3/h	
Overload Flow Rate - Q4	78.75 m3/h	
Number of Max Index Dials	6	5
Meter Material	Cast Iron	Brass
Output Pulse l/s	1 pulse/10 litres	1 pulse/litre
Is meter WRAS approved for contaminated land	N/A	N/A
Is meter MID Compliant	Yes	Yes
This does not come with a PR6 or PR7 inductive pulse unit		
<b>NON - STANDARD COMBINATION METER 80MM X 20MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200042	<b>Meter Type</b>	<b>Meter Specifications</b>
Meter Name	C4000 main meter	V220 By-pass meter
Meter Size	80mm	20mm
Meter Type	Woltmann	Manifold
Meter Thread Size	NP16 Flanged	
Flow Ratio (Q3/Q1)	R2000	
Minimum Flow Rate - Q1		32 l/h
Transitional Flow Rate - Q2		50 l/h
Permanent Flow Rate - Q3	63 m3/h	
Overload Flow Rate - Q4	78.75 m3/h	
Number of Max Index Dials	6	5
Meter Material	Cast Iron	Brass
Output Pulse l/s	1 pulse/10 litres	1 pulse/litre
Is meter WRAS approved for contaminated land	N/A	N/A
Is meter MID Compliant	Yes	Yes
This includes a PR6 and a PR7 inductive pulse unit		

## Combination Meter Size 100mm x 20mm

<b>STANDARD METER COMBINATION 80MM X 20MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200043	<b>Meter Type</b>	<b>Meter Specifications</b>
Meter Name	C4000 main meter	V220 By-pass meter
Meter Size	100mm	20mm
Meter Type	Woltmann	Manifold
Meter Thread Size	NP16 Flanged	
Flow Ratio (Q3/Q1)	R2000	
Minimum Flow Rate - Q1		32 l/h
Transitional Flow Rate - Q2		50 l/h
Permanent Flow Rate - Q3	63 m3/h	
Overload Flow Rate - Q4	78.75 m3/h	
Number of Max Index Dials	6	5
Meter Material	Cast Iron	Brass
Output Pulse l/s	1 pulse/10 litres	1 pulse/litre
Is meter WRAS approved for contaminated land	N/A	N/A
Is meter MID Compliant	Yes	Yes
This does not come with a PR6 or PR7 inductive pulse unit		
<b>NON - STANDARD COMBINATION METER 100MM X 20MM</b>		
<b>Standard Meter (mm)</b> SW Ref; 003200044	<b>Meter Type</b>	<b>Meter Specifications</b>
Meter Name	C4000 main meter	V220 By-pass meter
Meter Size	100mm	20mm
Meter Type	Woltmann	Manifold
Meter Thread Size	NP16 Flanged	
Flow Ratio (Q3/Q1)	R2000	
Minimum Flow Rate - Q1		32 l/h
Transitional Flow Rate - Q2		50 l/h
Permanent Flow Rate - Q3	63 m3/h	
Overload Flow Rate - Q4	78.75 m3/h	
Number of Max Index Dials	6	5
Meter Material	Cast Iron	Brass
Output Pulse l/s	1 pulse/10 litres	1 pulse/litre
Is meter WRAS approved for contaminated land	N/A	N/A
Is meter MID Compliant	Yes	Yes
This includes a PR6 and a PR7 inductive pulse unit		