



**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

STANDARD METER 15MM			
Standard Meter (mm) SW Ref; 003200000	Meter Type	Meter Specifications	
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		
Standard Meter (mm) SW Ref; 003200001	Meter Type	Meter Specifications	
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		
NON - STANDARD METER 15MM			
Non - Standard Meter (mm) SW Ref; 003200002	Meter Type	Meter Specifications	
This includes a retro-fit PR6 Inductive pulse unit.	Manifold V210P	As listed in Manifold V210P above	
Non - Standard Meter (mm) SW Ref; 003200003	Meter Type	Meter Specifications	
This includes a retro-fit PR6 Inductive pulse unit.	Inline V200P	As listed in Inline V200P above	
Non - Standard Meter (mm) SW Ref; 003200004	Meter Type	Meter Specifications	
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		
Non - Standard Meter (mm) SW Ref; 003200005	Meter Type	Meter Specifications	
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		
Non - Standard Meter (mm) SW Ref; 003200006	Meter Type	Meter Specifications	
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
Non - Standard Meter (mm) SW Ref; 003200007	Meter Type	Meter Specifications	
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
Non - Standard Meter (mm) SW Ref; 003200045	Meter Type	Meter Specifications	
Electromagnetic Meter AQUA3 This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification	
Non - Standard Meter (mm) SW Ref; 003200046	Meter Type	Meter Specifications	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification	
Non - Standard Meter (mm) SW Ref; 003200047	Meter Type	Meter Specifications	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS	
Non - Standard Meter (mm) SW Ref; 003200048	Meter Type	Meter Specifications	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS	

Meter Size 20mm

STANDARD METER 20MM			
Standard Meter (mm) SW Ref; 003200008	Meter Type	Meter Specifications	
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		
Standard Meter (mm) SW Ref; 003200009	Meter Type	Meter Specifications	
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		
NON - STANDARD METER 20MM			
Non - Standard Meter (mm) SW Ref; 003200010	Meter Type	Meter Specifications	
This includes a retro-fit PR6 Inductive pulse unit.	Manifold V210	As listed in Manifold V210 above	
Non - Standard Meter (mm) SW Ref; 003200011	Meter Type	Meter Specifications	
This includes a retro-fit PR6 Inductive pulse unit.	Inline V200P	As listed in Inline V200P above	
Non - Standard Meter (mm) SW Ref; 003200012	Meter Type	Meter Specifications	
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		
Non - Standard Meter (mm) SW Ref; 003200013	Meter Type	Meter Specifications	
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
Non - Standard Meter (mm) SW Ref; 003200014	Meter Type	Meter Specifications	
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
Non - Standard Meter (mm) SW Ref; 003200015	Meter Type	Meter Specifications	
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
Non - Standard Meter (mm) SW Ref; 003200049	Meter Type	Meter Specifications	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification	
Non - Standard Meter (mm) SW Ref; 003200050	Meter Type	Meter Specifications	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification	
Non - Standard Meter (mm) SW Ref; 003200051	Meter Type	Meter Specifications	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS	
Non - Standard Meter (mm) SW Ref; 003200052	Meter Type	Meter Specifications	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS	

Meter Size 25mm

STANDARD METER 25MM			
Standard Meter (mm) SW Ref; 003200016	Meter Type	Meter Specifications	
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		
Standard Meter (mm) SW Ref; 003200017	Meter Type	Meter Specifications	
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		
NON - STANDARD METER 25MM			
Non - Standard Meter (mm) SW Ref; 003200018	Meter Type	Meter Specifications	
This includes a retro-fit PR6 Inductive pulse unit.	Manifold V210	As listed in Manifold V210 above	
Non - Standard Meter (mm) SW Ref; 003200019	Meter Type	Meter Specifications	
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		
Non - Standard Meter (mm) SW Ref; 003200020	Meter Type	Meter Specifications	
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
Non - Standard Meter (mm) SW Ref; 003200021	Meter Type	Meter Specifications	
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
Non - Standard Meter (mm) SW Ref; 003200022	Meter Type	Meter Specifications	
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
Non - Standard Meter (mm) SW Ref; 003200053	Meter Type	Meter Specifications	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification	
Non - Standard Meter (mm) SW Ref; 003200054	Meter Type	Meter Specifications	
Electromagnetic Meter ABB Does not include cost of mains	Aquamaster 3	Mains Full Bore Class 1 Specification	
Non - Standard Meter (mm) SW Ref; 003200055	Meter Type	Meter Specifications	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS	
Non - Standard Meter (mm) SW Ref; 003200056	Meter Type	Meter Specifications	
Electromagnetic Meter ABB Does not include cost of mains	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS	

Meter Size 30mm

STANDARD METER 30MM			
Standard Meter (mm) SW Ref; 003200023	Meter Type	Meter Specifications	
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		
NON - STANDARD METER 30MM			
Non - Standard Meter (mm) SW Ref; 003200024	Meter Type	Meter Specifications	
This includes a retro-fit PR6 Inductive pulse unit.	Inline V200	As listed in Inline V200 above	
Non - Standard Meter (mm) SW Ref; 003200025	Meter Type	Meter Specifications	
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		
Non - Standard Meter (mm) SW Ref; 003200026	Meter Type	Meter Specifications	
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

STANDARD METER 40MM			
Standard Meter (mm) SW Ref; 003200028	Meter Type	Meter Specifications	
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		
Standard Meter (mm) SW Ref; 003200027	Meter Type	Meter Specifications	
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		
Standard Meter (mm) SW Ref; 003200029	Meter Type	Meter Specifications	
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	
NON - STANDARD METER 40MM			
Non - Standard Meter (mm) SW Ref; 003200031	Meter Type	Meter Specifications	
This includes a retro-fit PR7 Inductive pulse unit.	Helix 4000	As listed in Helix 4000 above	
Non - Standard Meter (mm) SW Ref; 003200030	Meter Type	Meter Specifications	
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		
Non - Standard Meter (mm) SW Ref; 003200057	Meter Type	Meter Specifications	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore	

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

Meter Size 50mm

STANDARD METER 50MM			
Standard Meter (mm) SW Ref; 003200032	Meter Type	Meter Specifications	
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		
Standard Meter (mm) SW Ref; 003200033	Meter Type	Meter Specifications	
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	
NON - STANDARD METER 50MM			
Non - Standard Meter (mm) SW Ref; 003200034	Meter Type	Meter Specifications	
This includes a retro-fit PR7 Inductive pulse unit.	Helix 4000/TPR7	As listed in Helix 4000 above	
Non - Standard Meter (mm) SW Ref; 003200061	Meter Type	Meter Specifications	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification	
Non - Standard Meter (mm) SW Ref; 003200062	Meter Type	Meter Specifications	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification	
Non - Standard Meter (mm) SW Ref; 003200063	Meter Type	Meter Specifications	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS	
Non - Standard Meter (mm) SW Ref; 003200064	Meter Type	Meter Specifications	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS	

Meter Size 80mm

STANDARD METER 80MM			
Standard Meter (mm) SW Ref; 003200035	Meter Type	Meter Specifications	
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		
Standard Meter (mm) SW Ref; 003200036	Meter Type	Meter Specifications	
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	
NON - STANDARD METER 80MM			
Non - Standard Meter (mm) SW Ref; 003200037	Meter Type	Meter Specifications	
This includes a retro-fit PR7 Inductive pulse unit.	Helix 4000/TPR7	As listed in Helix 4000 above	
Non - Standard Meter (mm) SW Ref; 003200065	Meter Type	Meter Specifications	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification	
Non - Standard Meter (mm) SW Ref; 003200066	Meter Type	Meter Specifications	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification	
Non - Standard Meter (mm) SW Ref; 003200067	Meter Type	Meter Specifications	
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS	
Non - Standard Meter (mm) SW Ref; 003200068	Meter Type	Meter Specifications	
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS	

Meter Size 100mm

STANDARD METER 100MM																								
Standard Meter (mm) SW Ref; 003200038	Meter Type	Meter Specifications																						
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																								
Standard Meter (mm) SW Ref; 003200039	Meter Type	Meter Specifications																						
Interchangeable Mechanism to suit n Helix 4000 including body O ring	Mechanism	As listed in Helix 4000 above																						
This does not include a retro-fit PR7 Inductive pulse unit																								
NON - STANDARD METER 100MM																								
Non - Standard Meter (mm) SW Ref; 003200040	Meter Type	Meter Specifications																						
This includes a retro-fit PR7 Inductive pulse unit.	Helix 4000/TPR7	As listed in Helix 4000 above																						
Non - Standard Meter (mm) SW Ref; 003200069	Meter Type	Meter Specifications																						
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification																						
Non - Standard Meter (mm) SW Ref; 003200070	Meter Type	Meter Specifications																						
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification																						
Non - Standard Meter (mm) SW Ref; 003200071	Meter Type	Meter Specifications																						
Electromagnetic Meter ABB This includes the battery	Aquamaster 3	Battery Full Bore Class 1 Specification Integrated GMS \ SMS																						
Non - Standard Meter (mm) SW Ref; 003200072	Meter Type	Meter Specifications																						
Electromagnetic Meter ABB Does not include cost of cable	Aquamaster 3	Mains Full Bore Class 1 Specification Integrated GMS \ SMS																						

Meter Size 150mm

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

Meter Size 200mm

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

Meter Size 250mm

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

Meter Size 300mm

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

Meter Size 350mm

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

Meter Size 400mm

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

Meter Size 450mm

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

Meter Size 500mm

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

Meter Size 600mm

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

STANDARD METER COMBINATION 80MM X 20MM		
Standard Meter (mm) SW Ref; 003200041	Meter Type	Meter Specifications
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		
NON - STANDARD COMBINATION METER 80MM X 20MM		
Standard Meter (mm) SW Ref; 003200042	Meter Type	Meter Specifications
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

STANDARD METER COMBINATION 80MM X 20MM		
Standard Meter (mm) SW Ref; 003200043	Meter Type	Meter Specifications
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		
NON - STANDARD COMBINATION METER 100MM X 20MM		
Standard Meter (mm) SW Ref; 003200044	Meter Type	Meter Specifications
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		