Installation Manual

Automatic Sensor Tap

Deck Mounted

CAT 67910 **|** CAT 6791032 **|** CAT 67911 **|** CAT 67917 **|** CAT 679178

Revision 5

MEFE—Mitchell Engineering Food Equipment Pty Ltd

23 Storie Street Clontarf QLD 4019 Australia

www.mefe.com.au | info@mefe.com.au

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Free AU 1800 669 006

Product Description

Micro-computer infrared sensor control module, low consumption microprocessor chip with stable performance and high anti-interference. PCB electronic control module is double sealed and coated by a high performance waterproof membrane, then sealed with epoxy resin.

Water saving aerators are used in the faucet to prevent water splash back and allow for a soft flow. Automatically calibrates sensing distance according to the model type and environment, and stores this into the electronic chip. Supplied with AC 240V Transformer and DC 6V.

The faucet has been precisely manufactured and tested, ensuring the quality of the product satisfies international standards.

Product Certifications

WaterMark Certified
Australia and New Zealand WaterMark certified with approved licence number WM-022559.

6 Star WELS Rating
This guarantees that the product is in accordance with the standard set under the National Water Efficiency Labelling and Standards and has the highest possible water efficiency rated 6 Stars, with approved licence number 1718.

Specifications

Power	AC 240V or DC 6V 4 x AA alkaline batteries (batteries not supplied)	**Installation Diameter**	Single hole (32mm)
Battery Life	150,000 cycles	**Response Time**	Less than 0.7 seconds
Sensing Distance	10cm—Pre-set* **(CAT 67910, CAT 6791032)** 5 - 22cm—Self adjusting and pro-grammable **(CAT 67911, CAT 67917, CAT 67918)**	**Water Stop Protection (Auto Shut Off)**	60 seconds
Working Temperature	1°C - 60°C	**Flow Rate**	Less than 3 L/s at 0.3Mpa
Working Pressure	0.07Mpa—0.7Mpa	**Ambient Humidity**	95% or less
Inlet Size	BSP 1/2" (DN15) male thread	**Faucet Body Material**	304 Stainless Steel **(CAT 67917, CAT 679178)** Standard #59 brass, chrome plated **(CAT 67910, CAT 6791032, CAT 67911)**

*To manually adjust sensing range of pre-set models, please purchase optional remote 673-100R.

Pre-Install Instructions

Please choose an appropriate basin before installation as recommended in this manual.

Please read the installation instructions before calibrating the sensor tap.

Please ensure all pipes have been flushed and are clear of dirt and impurities (water must be clear).

Installation must be in accordance with AS/NZS 3500 and all other relevant Australian Standards.
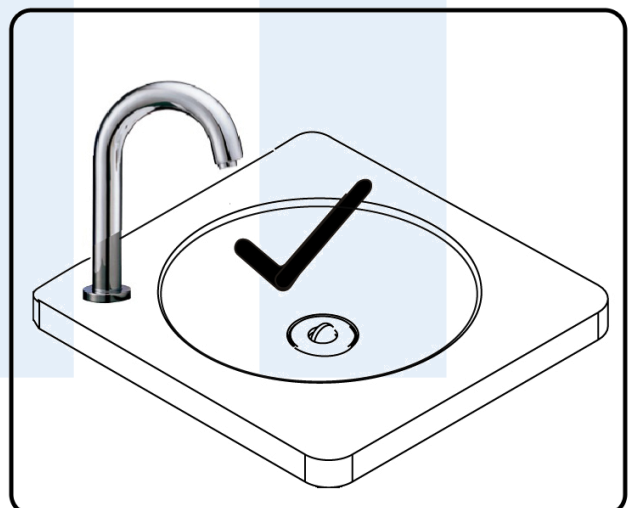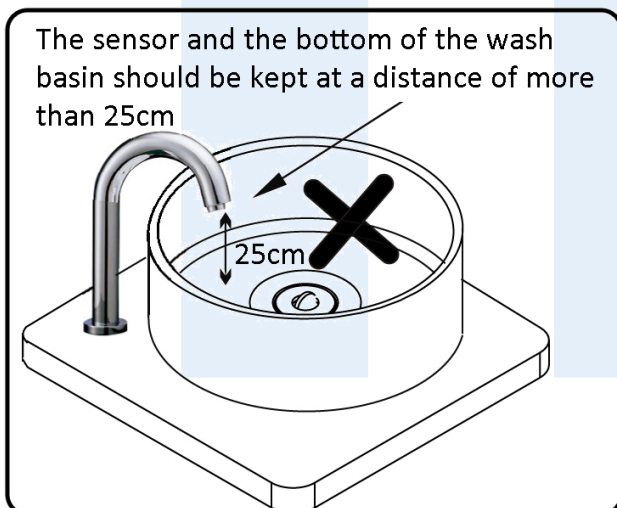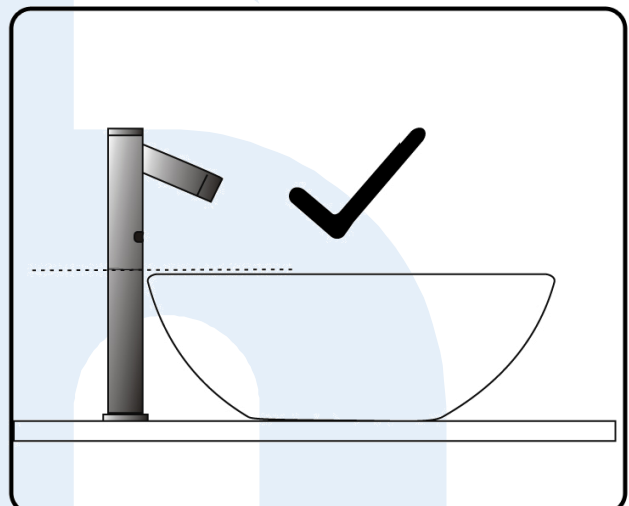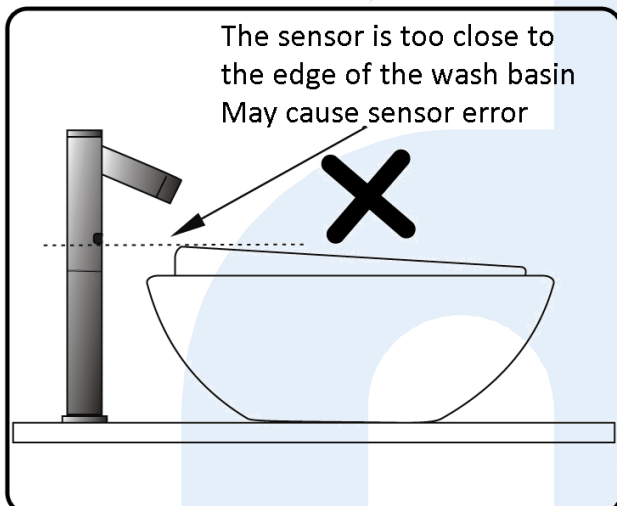

Required Tools

12mm Socket Screw Driver   Phillips Head Screw Driver   Shifter Spanner
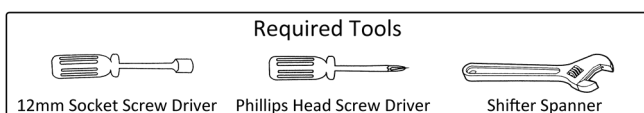
Choosing the Correct Basin

IMPORTANT:

Where the sensor is on the face of the faucet: we recommend the sensor is greater than 15mm above the wash basin and/or countertop.

Where the sensor is in the spout of the faucet: We recommend the sensor is at minimum 250mm above the bottom of the wash basin.

Please avoid stainless steel and other highly reflective basins as these reflections can cause interference with the sensor.

The sensor is too close to the edge of the wash basin May cause sensor error ✗

15mm ✓

The sensor is too close to the edge of the wash basin May cause sensor error ✗

✓

The sensor and the bottom of the wash basin should be kept at a distance of more than 25cm ✗

25cm

✓

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Installation

1 Please note: Installation guide is for deck mounted automatic faucets.

The information below is only for instalation reference and does not represent the physical product you purchased

Install the hose into the water inlet hole at the bottom of the faucet and tighten

2 Insert the signal transmission line and Stainless Steel hose into the reserved holes in the basin

3

Do not pull the signal line hard

Sink

Bottom Pad

Hex nuts

12mm hex driver

Adjust the faucet position. Secure the faucet to the countertop or basin with a retaining nut

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4

6.

Pay attention to the direction of the solenoid valve plug, **do not** insert in reverse

5.

3.

2.

4.

1.

40cm

1. Ensure there is a shut off valve installed at the wall connection.

2. Fix the housing box to the wall.

3. Connect the other end of the hose coming from the faucet body to the water outlet of the control box.

4. Use a 20cm long hose with 1/2" nut on both sides. Connect the water outlet of the shut off valve, and the water inlet of the control box.

Ground

5. Insert the sensor cable into the socket on the control box.

6. When the power is turned on, the LED on the sensor controller wil flash 3 times.

5

Place your hand under the water outlet and the solenoid valve will make a click The LED in the sensor will flash. Water is activated. Remove hand and water will stop. Place supplied red or blue dot on head of faucet to identify hot or cold water

Optional: Hot and Cold Mixer

2 x Watermarked Braided Hoses (flexible) with a DN15 nut on both ends

(**673-058L** 120cm / **673-058** 100cm)

1 x Watermarked Mixer Valve (**CAT 67 M2**)

Cold   Hot

G1/2   G1/2

Calibrating the Sensing Range

The sensor tap will automatically calibrate the sensing range when first connected to power. Please ensure the tap has been installed in the correct and final position before connecting to power. When connected to power the sensing light will flash indicating it is in programming mode, please do not interfere or obstruct for at least 60 seconds. During this time the sensor light may stop flashing, please do not interfere for the required 60 seconds.

Pre-set sensing range:

It will automatically set the sensing range within 10cm. Follow instructions as above. To adjust this range you will require optional remote 673-100R.
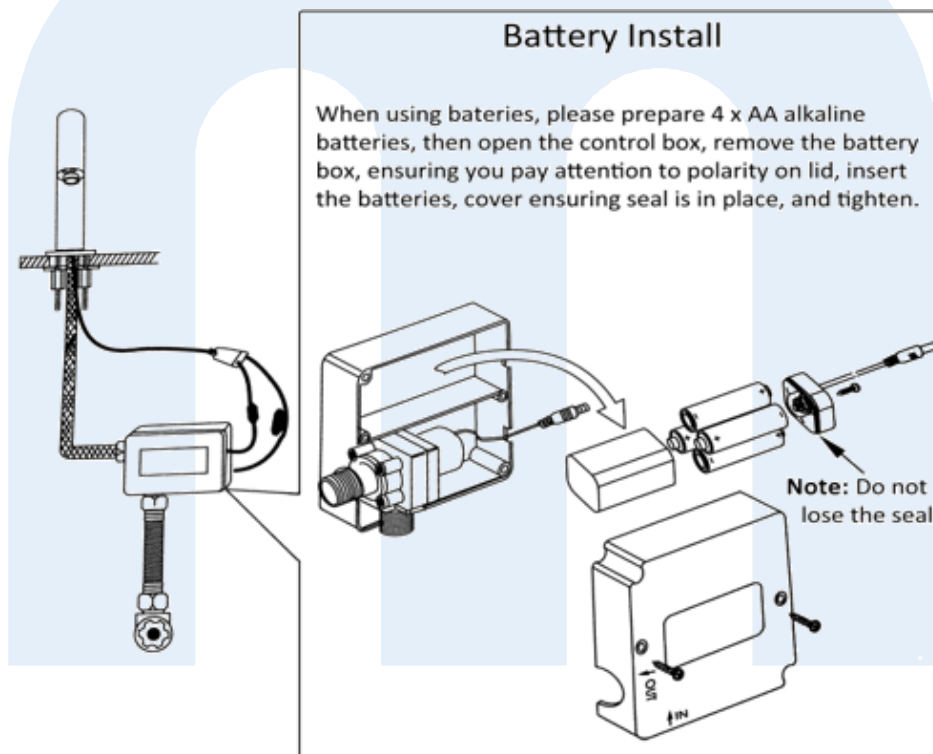
Adjustable sensing range:

It will automatically set the sensing range within 22cm. To set the sensing range yourself, obstruct using an object (hands, etc) at the desired maximum range before connecting to power.

We recommend allowing the tap to automatically set sensing range for best results.

When a user's hand is placed in the sensing range, the solenoid valve is activated and opens to allow water flow. When hands are removed, the solenoid valve will close stopping water flow. The infrared sensor will continue to emit invisible infrared light, ready for the next user.

Note: the tap has an automatic water saving safeguard against interference or mistakes. If the device is on for more than 60 seconds, or the faucet remains in sensing state for a long time, the solenoid valve will automatically close until the user leaves the sensing range.

Battery Install

Battery Install

When using bateries, please prepare 4 x AA alkaline batteries, then open the control box, remove the battery box, ensuring you pay attention to polarity on lid, insert the batteries, cover ensuring seal is in place, and tighten.

Note: Do not lose the seal

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Fault Check

Our sensor tap range is primarily divided into three components: the sensor, the solenoid valve, and the power supply. The solenoid valve and power supply are universal and interchangeable parts across our range of same type taps. The sensor is specific to each spout type.

If you have other sensor taps or spare parts available it can be helpful to trouble shoot by swapping parts until the faulty part is identified.

Issue	Fix
No water flow	**Check the power supply:** if using batteries, carefully check the correct polarity of the batteries and replace. The sensor light should flash indicating the tap is entering programming mode.
No water flow	**Check the sensor:** After confirming power is OK, if the sensor light does not flash, replace the sensor.
No water flow	**Check the solenoid valve:** place your hands under the faucet, you should hear a click of the solenoid valve indicating the sensor is working normally. This means water is not supplied or unable to flow. Check the solenoid valve for obstruction—the solenoid diaphragm may be blocked. Opening and cleaning the solenoid may be necessary, or replace the solenoid valve.
Low water flow	**Check the solenoid valve:** A leaking faucet with a constant slow flow indicates the diaphragm is not sealing due to debris or it may be cracked or town. Replace the diaphragm or the complete solenoid valve.
Intermittent water flow	**Check the sensing range:** This is most likely caused by a failure to program sensing range correctly due to interference from a reflective basin. We recommend you remove power for 2 minutes, then reconnect and allow the sensor to adjust to a short sensing range. It can be beneficial to create a false bottom by placing paper or similar at the bottom of the basin when recalibrating the sensing range to remove any strong reflection.
Water does not stop flowing	**Check the solenoid valve:** If the faucet does not stop flowing it may be that the solenoid valve is faulty and should be replaced. The diaphragm is not sealing due to debris or it may be cracked or town. Replace the diaphragm or the complete solenoid valve.

Cleaning and Maintenance

Regular cleaning is essential to keep your tap looking its best.

Do not rinse the control box with water.

Do not use abrasive or chemical cleaners (including chlorine clean to clean the faucet as this can dull lustre and finish of the tap).

Wash only in soap water and dry with a clean soft towel or microfibre cloth.

When cleaning the general area please ensure you protect the faucet from any cleaning acids or fluids as this can discolour or remove the chrome plating where applicable.

The filter screen on the solenoid valve inlet should be cleaned regularly to avoid excessive blockage and obstruction caused by impurities resulting in low water flow.

CAT 67910 | CAT 67910B | CAT 67910G

Transformer

Sensor

Steel bolt and
Plastic screw cap

Solenoid Box

WATER RATING
www.waterrating.gov.au

The more
stars the more
water efficient

4.5 litres per
minute

In accordance with **AS/NZS 6400**

Licence No. 1718

Mitchell Engineering Food
Equipment Pty Ltd

Stainless Steel
braided supply hose

WaterMark
WM - 022559
AS/NZS 3718

16cm

18cm

Diameter = 5cm

15cm

45cm

15cm

30cm

80cm

30cm

Floor Surface

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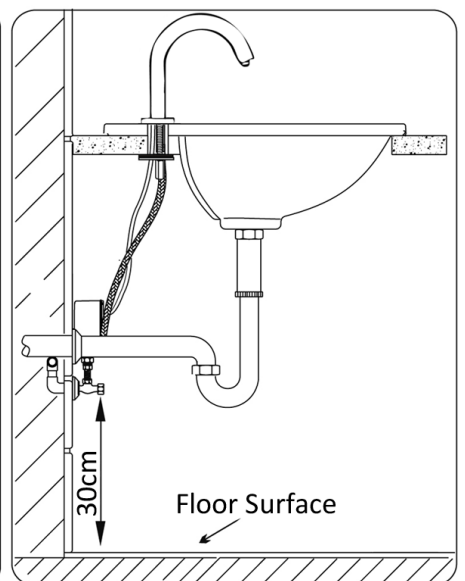
CAT 67910 Automatic Faucet Exploded View

14-1	Adapter (SUS 304 Stainless)
14-2	Body Valve (POM Plastic)
14-3	Diaphragm (NBR rubber)
14-4	Diaphragm skeleton (POM Plastic)
14-5	Spring needle (SUS 304 Stainless)
14-6	Seat (POM Plastic)
14-7	Glue (Silicone rubber)
14-8	Core (430 Stainless)
14-9	Spring (SUS 304 Stainless)
14-10	Set (POM Plastic)
14-11	Solenoid Valve (Brass + Iron)
14-12	Cover (POM Plastic)

No.	Part #	Description	Material	No.	Part #	Description	Material
1.	679-100	Faucet Body	Brass CW602N	10.	679-109	Mat	NBR Rubber
2.	673-045	Screw	SUS 304 Stainless Steel	11.	679-110	Copper Nut	POM Plastic + Brass
3.	673-054C	Spout Adapter	Brass CW602N	12.	673-058	Braided Hose	SUS 304 Stainless WMKA21505
4.	673-054B	Rubber Mat	NBR Rubber	13.	679-120	Housing	ABS Plastic
5.	673-054	Aerator	POM Plastic	14.	679-122	Solenoid Valve	POM Plastic WMKA21177
6.	673-054A	Spout Shell	Brass CW602N	15.	679-120	Housing	ABS Plastic
7.	673-106	Sensor	Electronic Hardware	16.	679-127	Screw	SUS 304 Stainless Steel
8.	679-107B	Cover	Brass CW602N	17.	679-121	Battery Box	ABS Plastic
9.	679-108	S/Steel Bolt	SUS 304 Stainless Steel	18.	679-128	Power Adaptor	Electronic Hardware

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CAT 6791032 | CAT 6791032B | CAT 6791032G

Sensor

Solenoid Box

Transformer

Automatic faucets

Steel bolt and
Plastic screw cap

WATER RATING
www.waterrating.gov.au

The more
stars the more
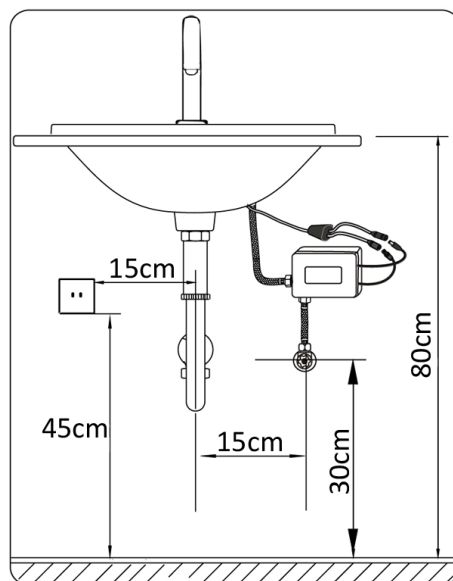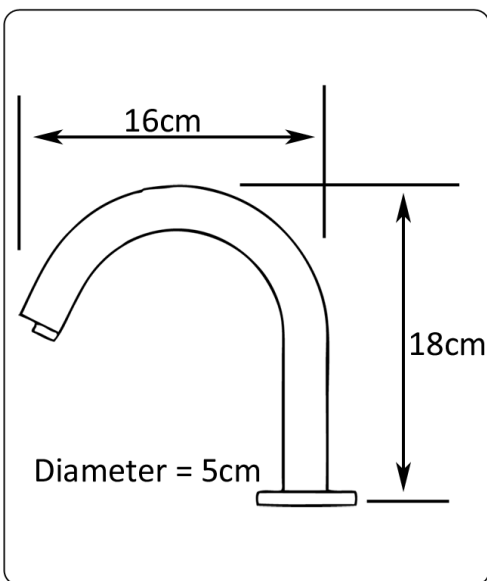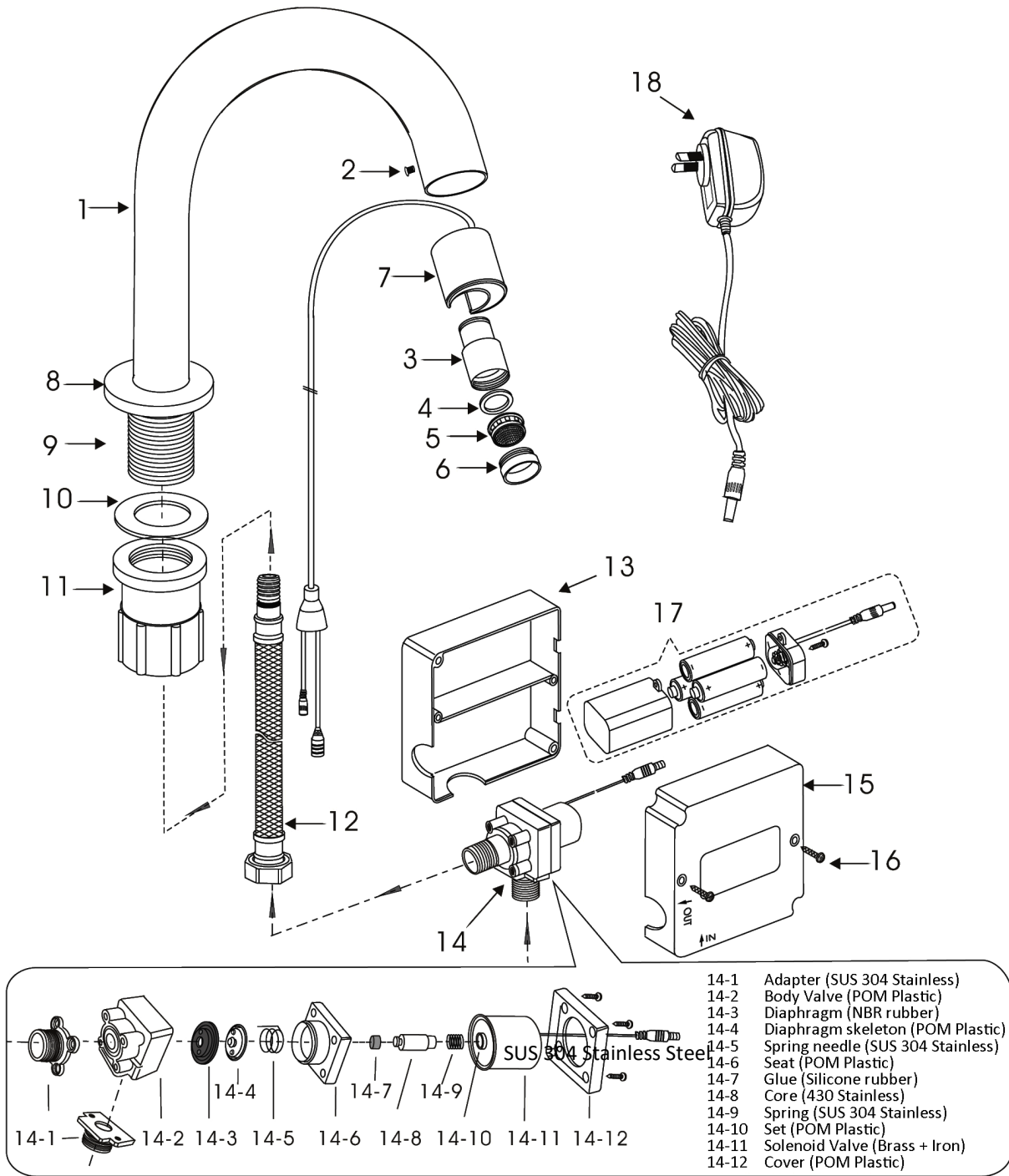water efficient

4.5 litres per
minute

In accordance with AS/NZS 6400

Licence No. 1718
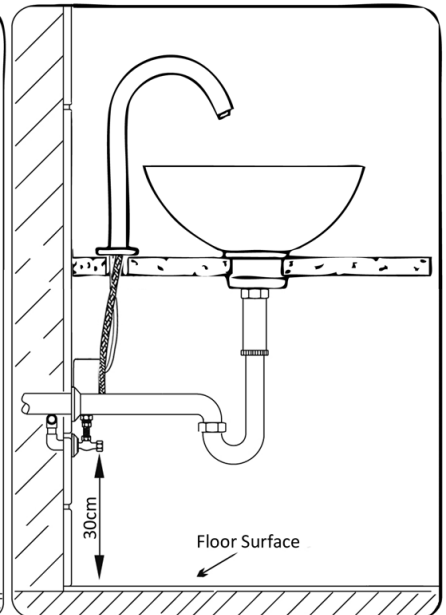
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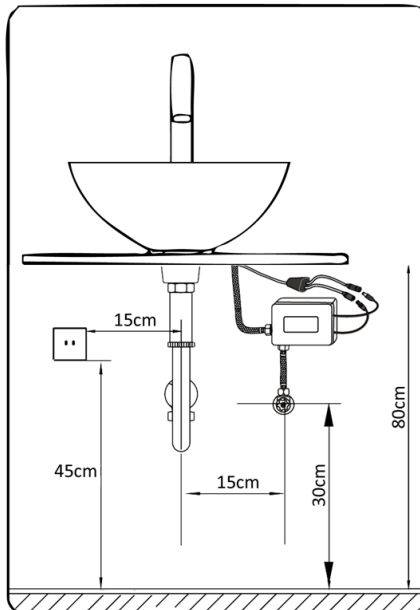Stainless Steel
braided supply hose

WaterMark
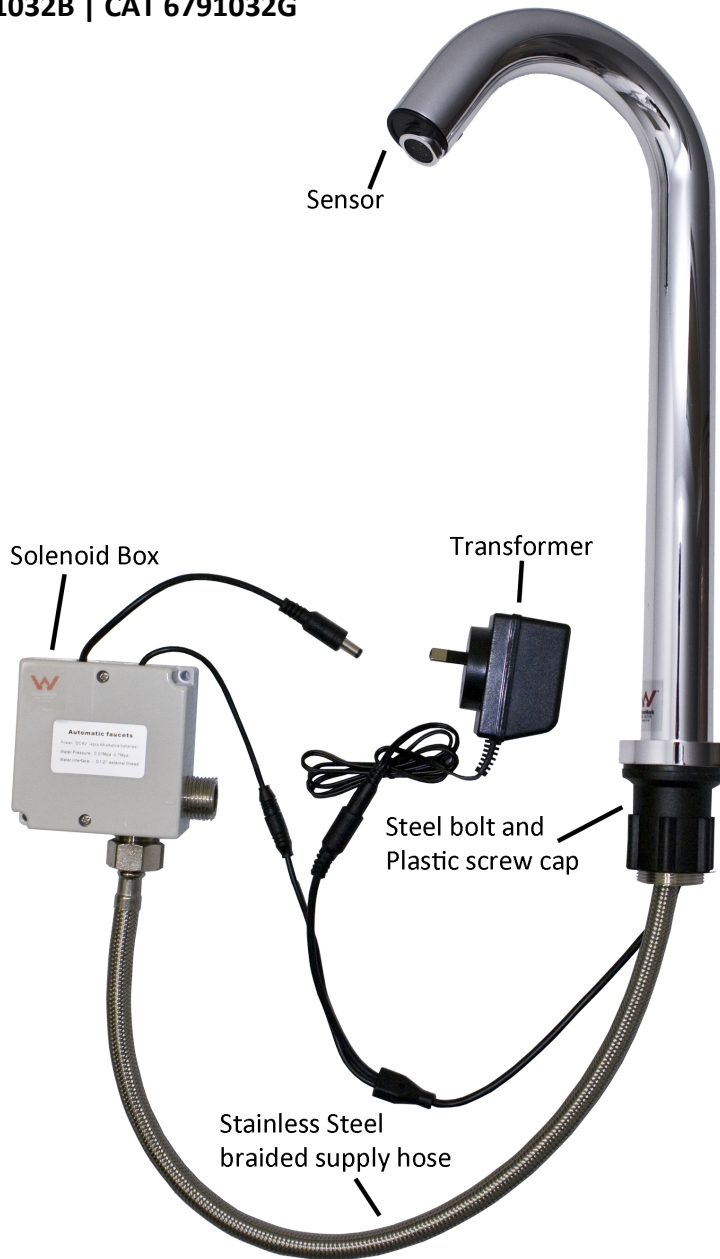WM - 022559
AS/NZS 3718

16cm

32cm

Diameter = 5cm

15cm

45cm

15cm

30cm

80cm

30cm

Floor Surface

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CAT 6791032 Automatic Faucet Exploded View

				14-1	Adapter (SUS 304 Stainless)
				14-2	Body Valve (POM Plastic)
				14-3	Diaphragm (NBR rubber)
				14-4	Diaphragm skeleton (POM Plastic)
				14-5	Spring needle (SUS 304 Stainless)
				14-6	Seat (POM Plastic)
				14-7	Glue (Silicone rubber)
				14-8	Core (430 Stainless)
				14-9	Spring (SUS 304 Stainless)
				14-10	Set (POM Plastic)
				14-11	Solenoid Valve (Brass + Iron)
				14-12	Cover (POM Plastic)
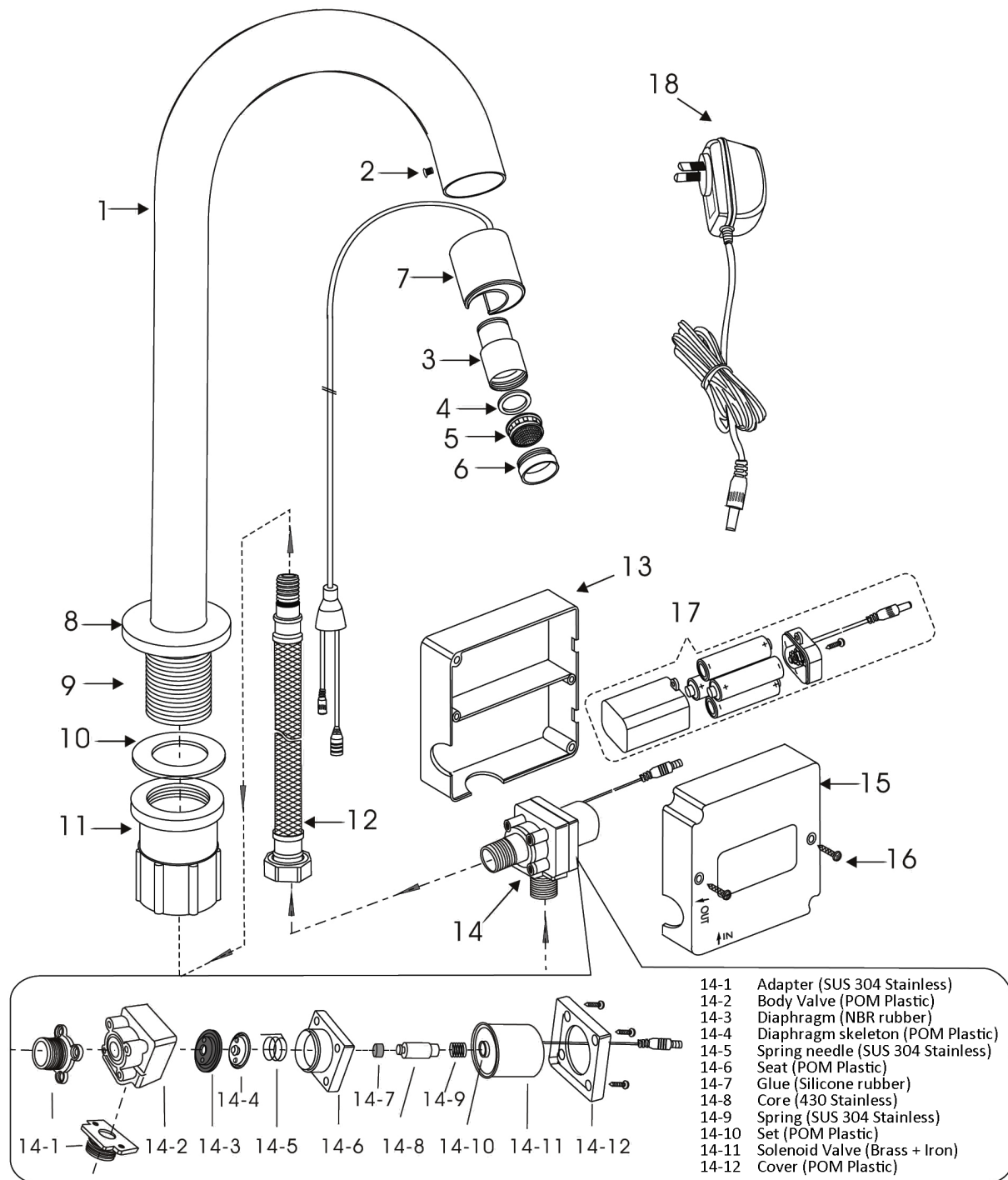
No.	Part #	Description	Material	No.	Part #	Description	Material
1.	679-103-200	Faucet Body	Brass CW602N	10.	679-109	Mat	NBR Rubber
2.	673-045	Screw	SUS 304 Stainless S	11.	679-110	Copper Nut	POM Plastic + Brass
3.	673-054C	Spout Adapter	Brass CW602N	12.	673-058	Braided Hose	SUS 304 Stainless WMKA21505
4.	673-054B	Rubber Mat	NBR Rubber	13.	679-120	Housing	ABS Plastic
5.	673-054	Aerator	POM Plastic	14.	679-122	Solenoid Valve	POM Plastic WMKA21177
6.	673-054A	Spout Shell	Brass CW602N	15.	679-120	Housing	ABS Plastic
7.	673-106	Sensor	Electronic Hardware	16.	679-127	Screw	SUS 304 Stainless Steel
8.	679-107B	Cover	Brass CW602N	17.	679-121	Battery Box	ABS Plastic
9.	679-108	S/Steel Bolt	SUS 304 Stainless S	18.	679-128	Power Adaptor	Electronic Hardware

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CAT 67911 | CAT 67911B

Solenoid Box

Transformer

Sensor

Nut and mounting rod

Automatic faucets

Power: DC 6V (4pcs AA alkaline batteries)
Water Pressure: 0.07Mpa -0.7Mpa
Water Interface : G1/2" external thread

Stainless Steel braided supply hose
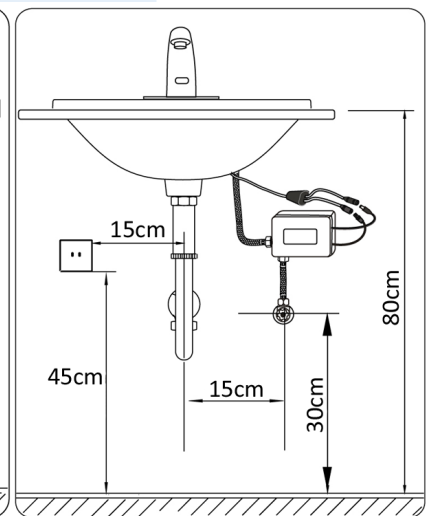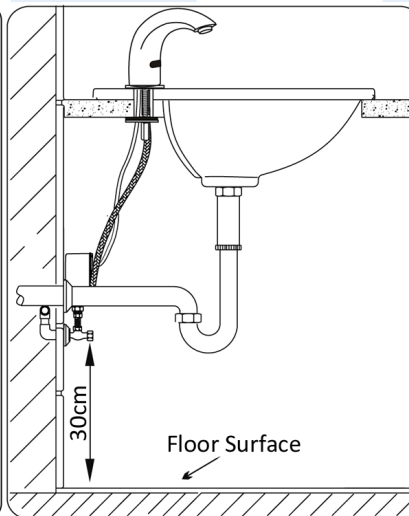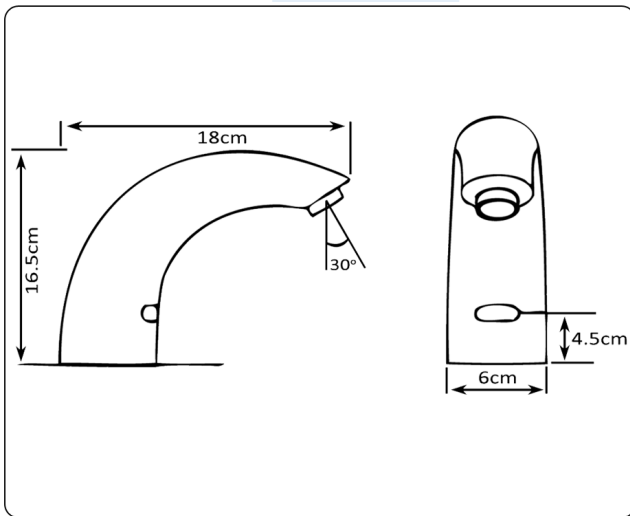
The more stars the more water efficient
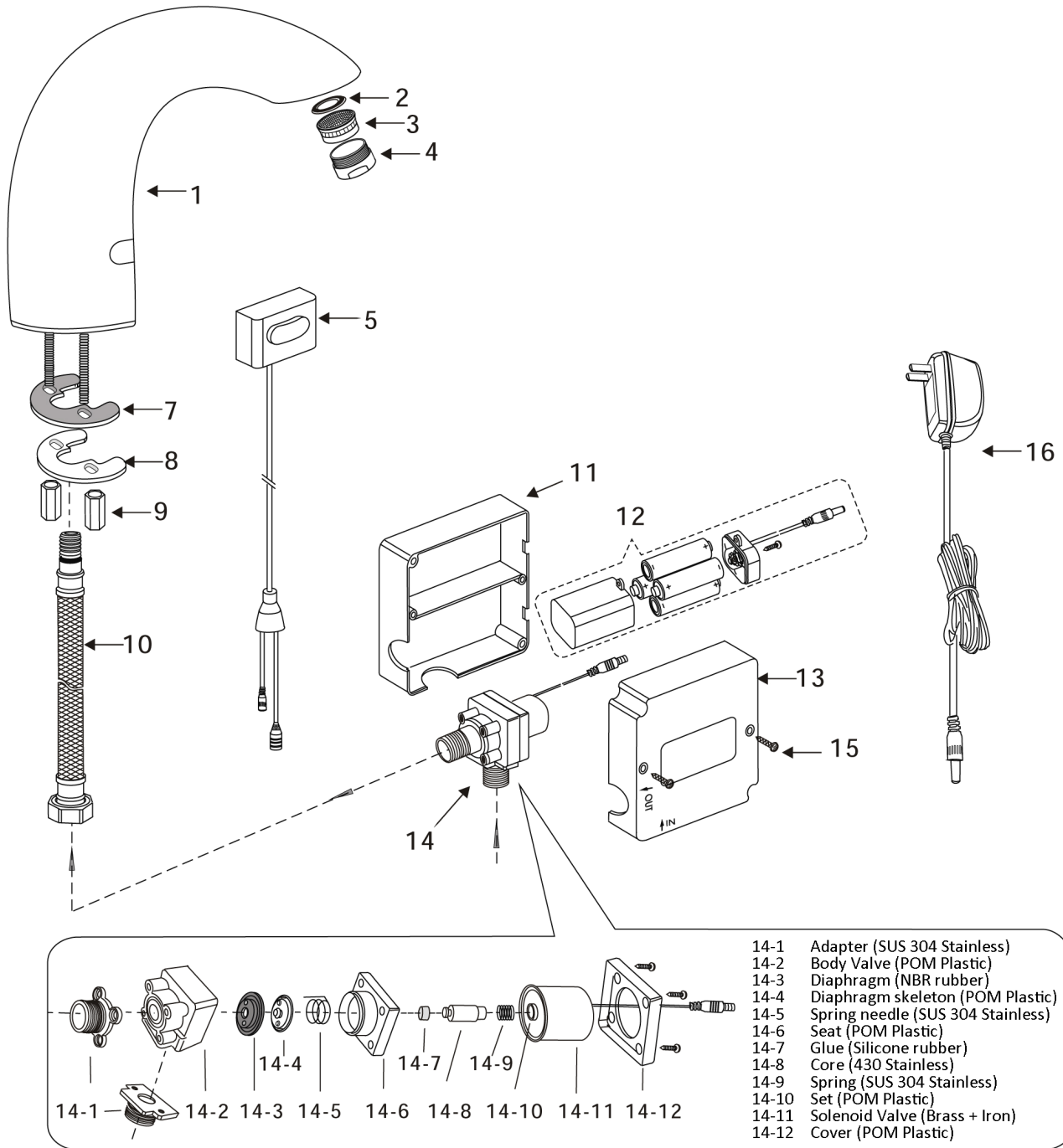
WATER RATING
www.waterrating.gov.au

5.0 litres per minute

In accordance with AS/NZS 6400

Licence No. 1718

Mitchell Engineering Food Equipment Pty Ltd

WaterMark
WM - 022559
AS/NZS 3718

18cm

16.5cm

30°

6cm

4.5cm

Floor Surface

30cm

15cm

45cm

15cm

30cm

80cm

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CAT 67911 Automatic Faucet Exploded View

14-1   Adapter (SUS 304 Stainless)
14-2   Body Valve (POM Plastic)
14-3   Diaphragm (NBR rubber)
14-4   Diaphragm skeleton (POM Plastic)
14-5   Spring needle (SUS 304 Stainless)
14-6   Seat (POM Plastic)
14-7   Glue (Silicone rubber)
14-8   Core (430 Stainless)
14-9   Spring (SUS 304 Stainless)
14-10   Set (POM Plastic)
14-11   Solenoid Valve (Brass + Iron)
14-12   Cover (POM Plastic)

No.	Part #	Description	Material	No.	Part #	Description	Material
1.	679-111	Faucet Body	Brass CW602N	10.	673-058	Braided Hose	SUS 304 Stainless WMKA21505
2.	673-033B	Rubber Mat	NBR Rubber	11.	679-120	Housing	ABS Plastic
3.	673-033	Aerator	POM Plastic WMKA21177	12.	679-121	Battery Box	ABS Plastic
4.	673-033A	Spout Shell	Brass CW602N	13.	679-120	Housing	ABS Plastic
5.	679-115	Sensor	Electronic Hardware	14.	679-122	Solenoid Valve	POM Plastic WMKA21177
6.	N/A	N/A	N/A	15.	679-127	Screw	SUS 304 Stainless Steel
7.	679-116	Rubber Mat	NBR Rubber	16.	679-128	Power Adaptor	Electronic Hardware
8.	679-117	Brass Mat	Brass	17.	N/A	N/A	N/A
9.	679-118	Copper Nut	Brass	18.	N/A	N/A	N/A

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Transformer

Solenoid Box

Sensor

Steel bolt and
Plastic screw cap

Stainless Steel
braided supply hose

The more
stars the more
water efficient

WATER RATING
www.waterrating.gov.au
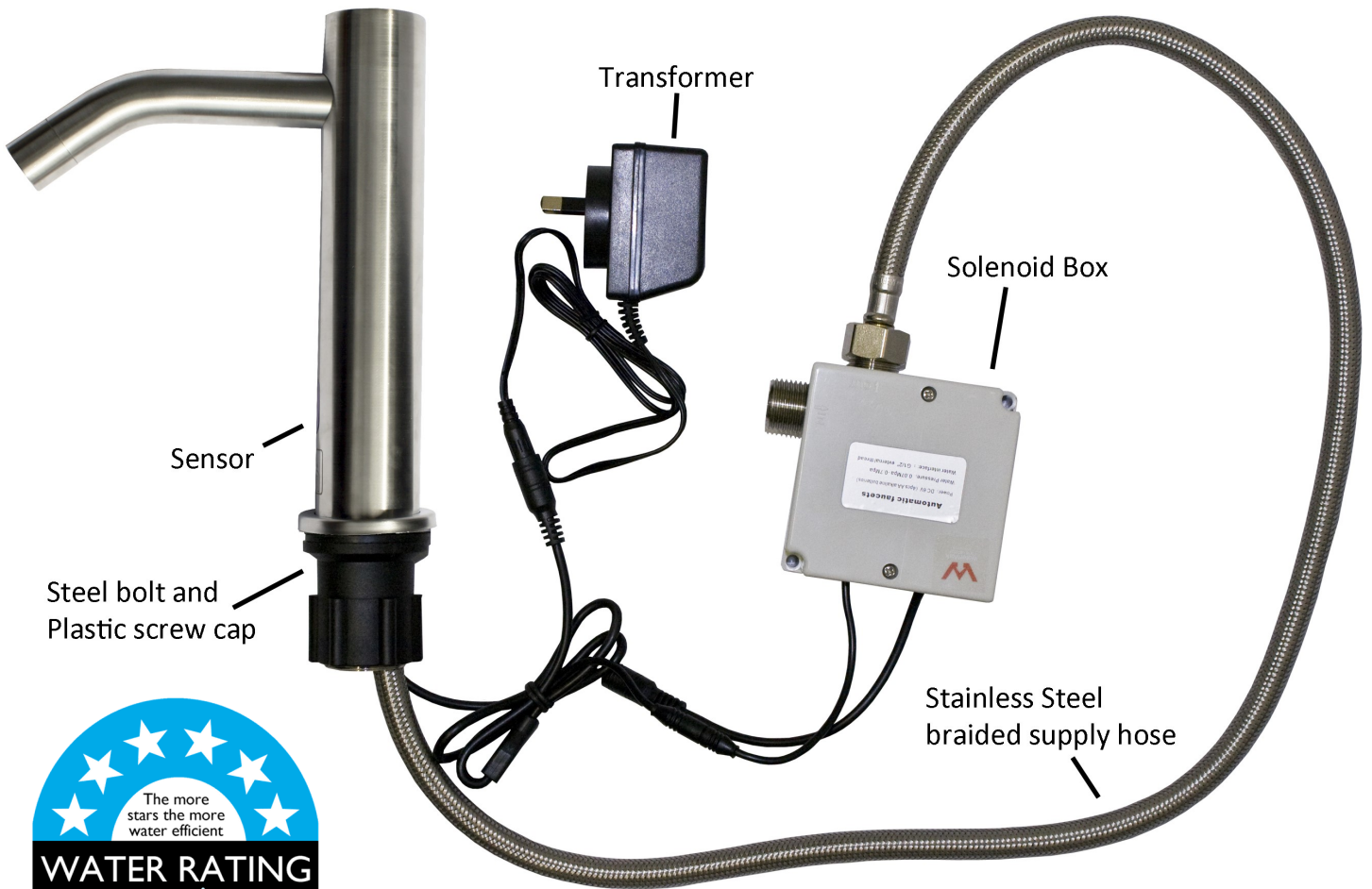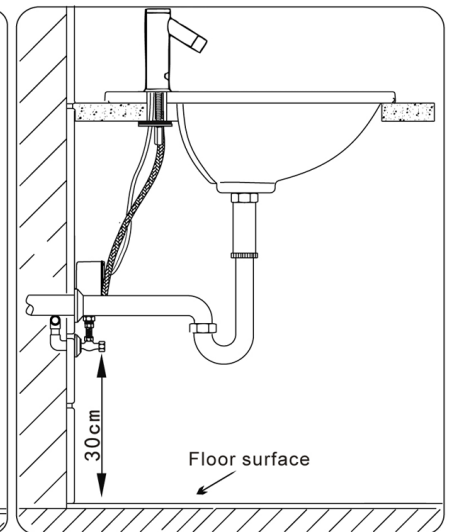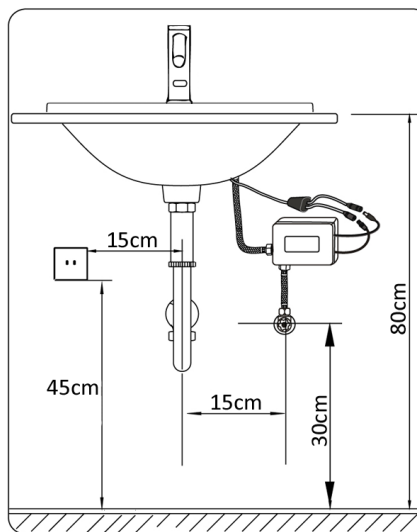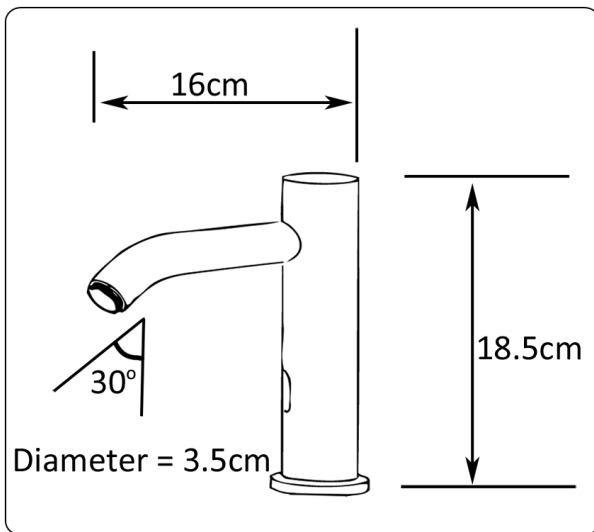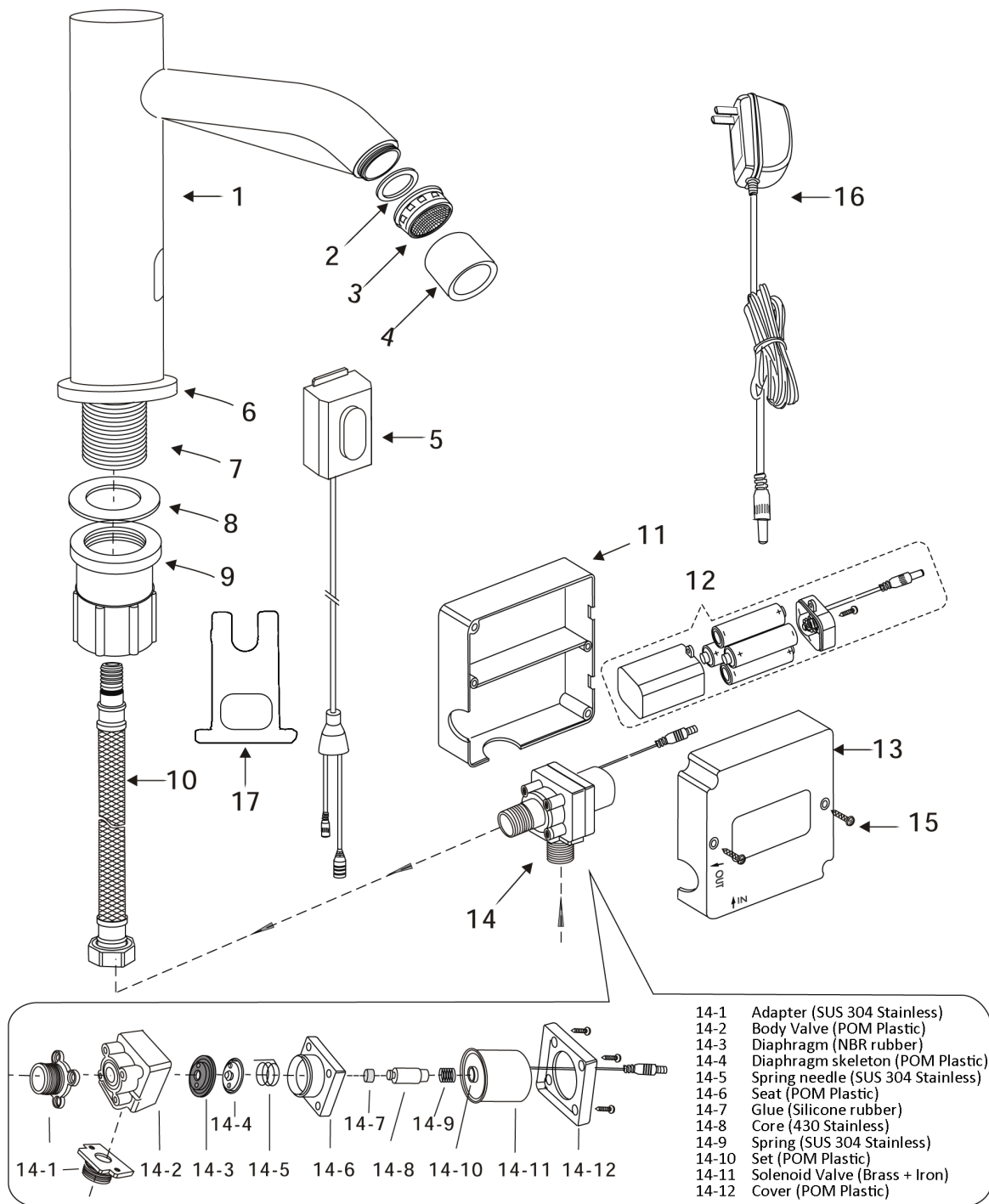
5.5 litres per
minute

In accordance with AS/NZS 6400

Licence No. 1718

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Equipment Pty Ltd

WaterMark
WM - 022559
AS/NZS 3718

Automatic faucets

16cm

18.5cm

30°

Diameter = 3.5cm

15cm

45cm

15cm

30cm

80cm

30cm

Floor surface

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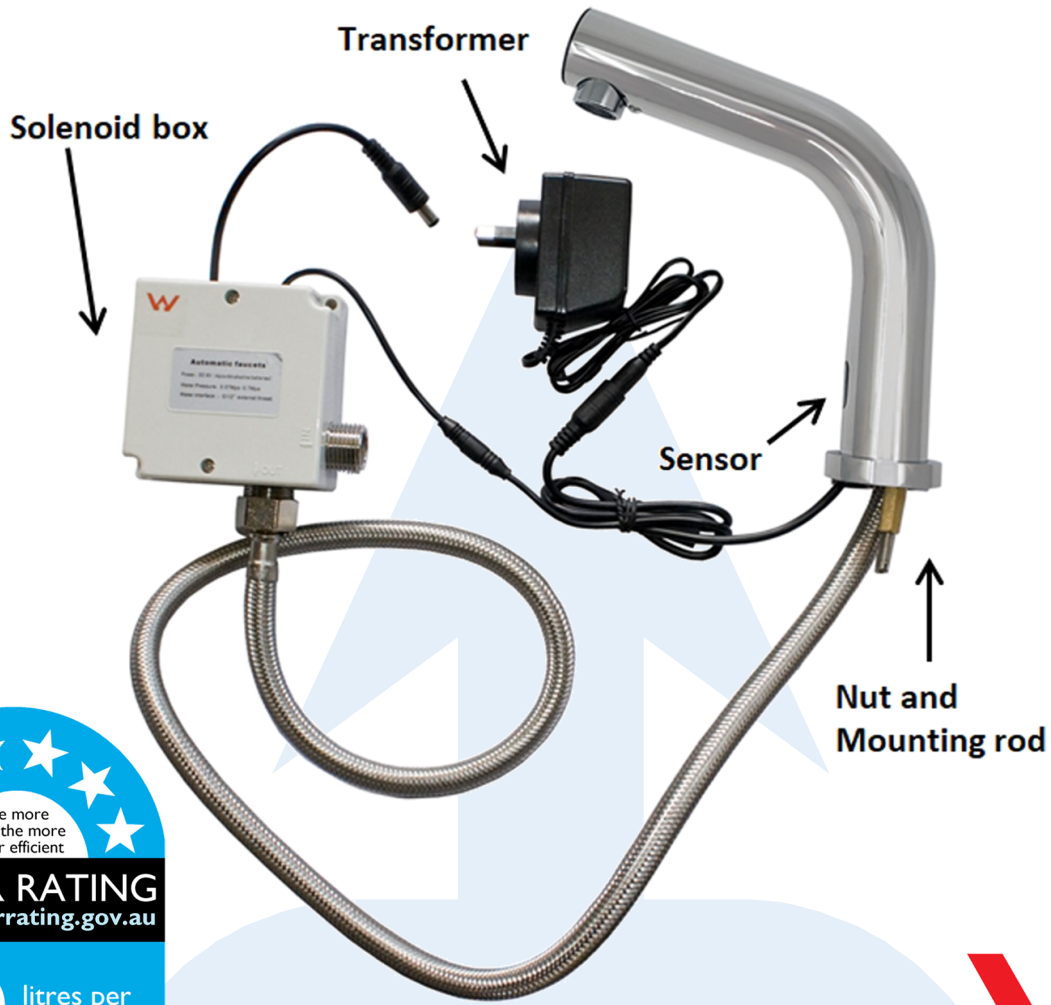
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CAT 67917 Automatic Faucet Exploded View

14-1 Adapter (SUS 304 Stainless)
14-2 Body Valve (POM Plastic)
14-3 Diaphragm (NBR rubber)
14-4 Diaphragm skeleton (POM Plastic)
14-5 Spring needle (SUS 304 Stainless)
14-6 Seat (POM Plastic)
14-7 Glue (Silicone rubber)
14-8 Core (430 Stainless)
14-9 Spring (SUS 304 Stainless)
14-10 Set (POM Plastic)
14-11 Solenoid Valve (Brass + Iron)
14-12 Cover (POM Plastic)

No.	Part #	Description	Material	No.	Part #	Description	Material
1.	679-170	Faucet Body	SUS 304 Stainless Steel	10.	673-058	Braided Hose	SUS 304 Stainless WMKA21505
2.	679-172	Rubber Mat	NBR Rubber	11.	679-120	Housing	ABS Plastic
3.	679-173	Aerator	POM Plastic	12.	679-121	Battery Box	ABS Plastic
4.	679-171	Spout Shell	SUS 304 Stainless Steel	13.	679-120	Housing	ABS Plastic
5.	679-131	Sensor	Electronic Hardware	14.	679-122	Solenoid Valve	POM Plastic + SUS 304 S/Steel
6.	679-107	Cover	SUS 304 Stainless Steel	15.	679-038	Screw	SUS 304 Stainless Steel
7.	679-108	S/Steel Bolt	SUS 304 Stainless Steel	16.	679-128	Power Adaptor	Electronic Hardware
8.	679-109	Mat	NBR Rubber	17.	679-129	Sensor Lock	POM Plastic
9.	679-110	Copper Nut	POM Plastic + Brass	18.	N/A	N/A	N/A

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CAT 679178 | CAT 679178S | CAT 679178B

Transformer

Solenoid box

Sensor

Nut and
Mounting rod

Stainless Steel
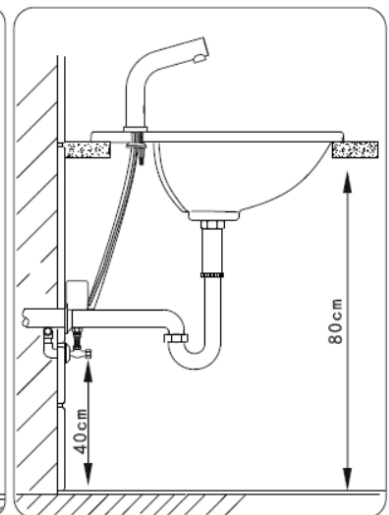braided supply hose

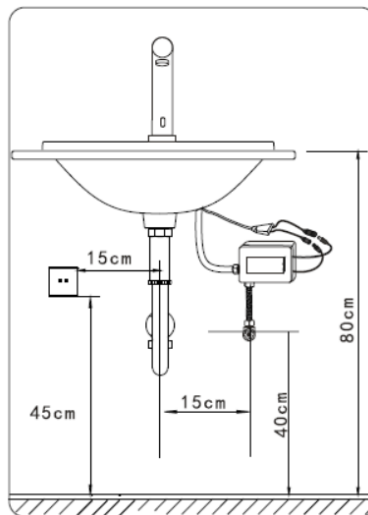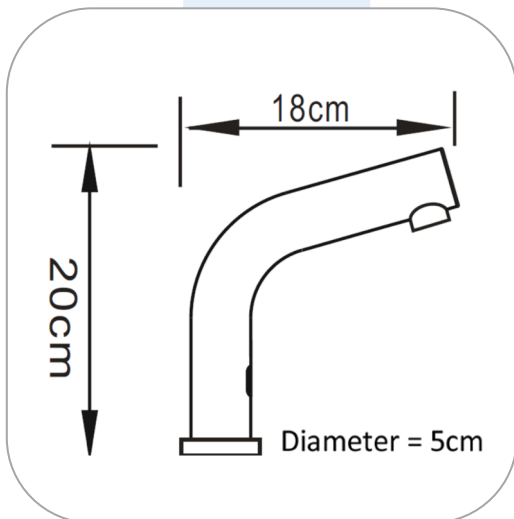The more
stars the more
water efficient
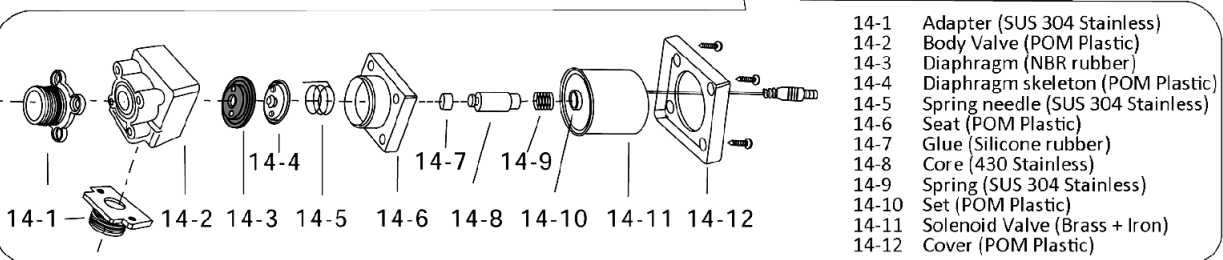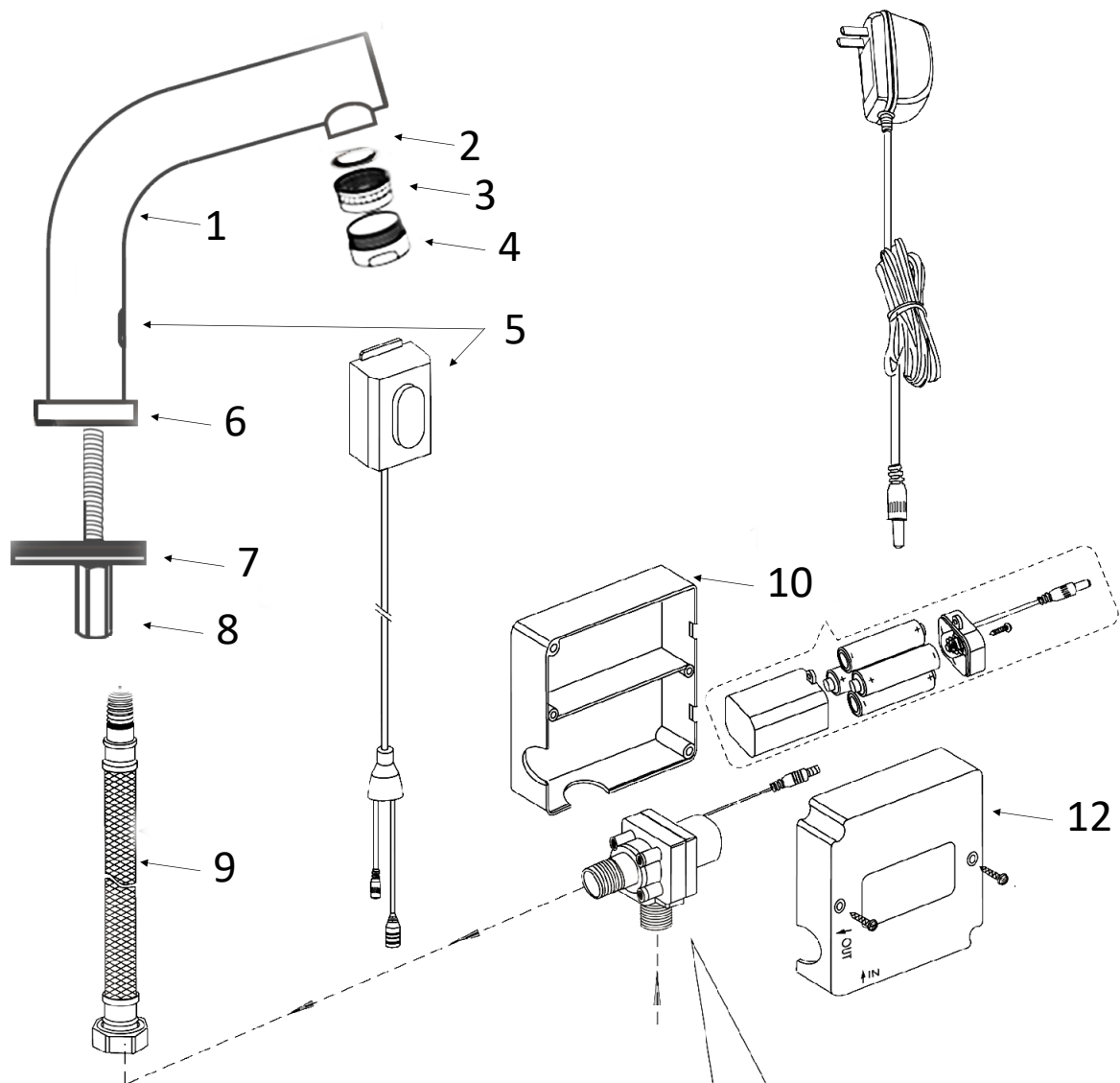
WATER RATING
www.waterrating.gov.au

5.0 litres per
minute

In accordance with AS/NZS 6400

Licence No. 1718

Mitchell Engineering Food
Equipment Pty Ltd

WaterMark
WM - 022559
AS/NZS 3718

18cm

20cm

Diameter = 5cm

15cm

80cm

45cm

15cm

40cm

80cm

40cm

CAT 679178 Automatic Faucet Exploded View

14-1   Adapter (SUS 304 Stainless)
14-2   Body Valve (POM Plastic)
14-3   Diaphragm (NBR rubber)
14-4   Diaphragm skeleton (POM Plastic)
14-5   Spring needle (SUS 304 Stainless)
14-6   Seat (POM Plastic)
14-7   Glue (Silicone rubber)
14-8   Core (430 Stainless)
14-9   Spring (SUS 304 Stainless)
14-10 Set (POM Plastic)
14-11 Solenoid Valve (Brass + Iron)
14-12 Cover (POM Plastic)

No.	Part #	Description	Material		No.	Part #	Description	Material
1.	679-800	Faucet Body	SUS 304 Stainless Steel		9.	673-058L	Braided Hose	SUS 304 Stainless WMKA21506
2.	673-033B	Rubber Mat	NBR Rubber		10.	679-120	Housing	ABS Plastic
3.	673-033	Aerator	POM Plastic		11.	679-121	Battery Box	ABS Plastic
4.	673-033D	Spout Shell	SUS 304 Stainless Steel		12.	679-120	Housing	ABS Plastic
5.	679-131	Sensor	Electronic Hardware		13.	679-122	Solenoid Valve	POM Plastic + SUS 304 S/Steel
6.	679-107C	Cover	SUS 304 Stainless Steel		14.	679-127	Screw	SUS 304 Stainless Steel
7.	679-116	Rubber Mat	NBR Rubber		15.	679-128	Power Adaptor	Electronic Hardware
8.	679-118	Copper Nut	Brass		16.	N/A	N/A	N/A

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