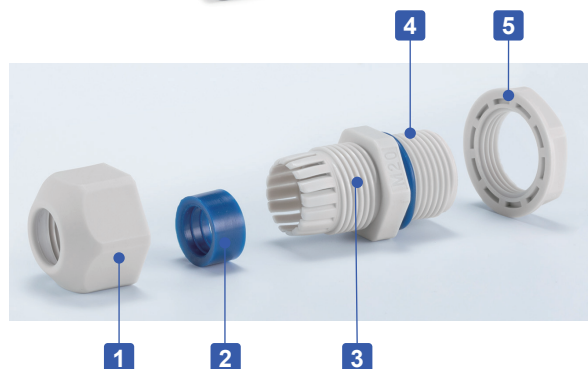




- Weatherproof cable gland equipped with high ultraviolet and degradation resistant silicone sealing insert and O-ring.
- Recommended to use outdoors where waterproofing is critical.
- Protection class equivalent to IP67.

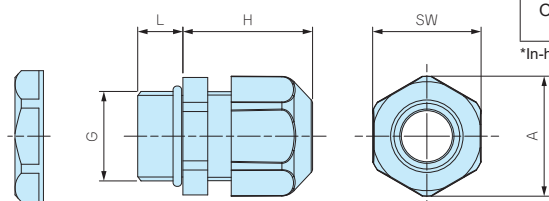
## Components

■ PA = Polyamide

| No. | Part name      | Material     |
|-----|----------------|--------------|
| 1   | Cap            | PA66 UL94V-2 |
| 2   | Sealing insert | Silicone     |
| 3   | Connector      | PA66 UL94V-2 |
| 4   | O-ring         | Silicone     |
| 5   | Lock nut       | PA66 UL94V-2 |

## RMW dimensions

- DXF/DWG/PDF drawings available on our website.



## Technical Data

Protection class : Equivalent to IP67\*  
Operating temperature : -20°C ~ +80°C

\*In-house test

## Cap design varies by size



RMW40 or smaller



RMW50

- Lock nut is not included for RMW10S-6.

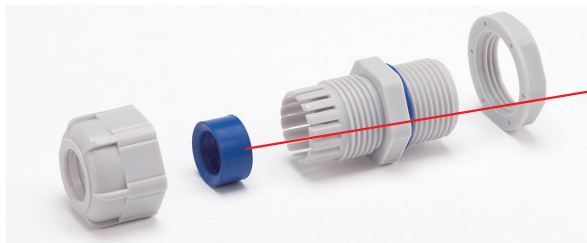
Please drill a proper thread hole into the enclosure for installation.

## Product no. / Details

| Product no.  |              | G           |               | Cable range |     | L    | H Max | SW   | A    | Pack of |
|--------------|--------------|-------------|---------------|-------------|-----|------|-------|------|------|---------|
| ● Black      | ● Light gray | Thread size | Mounting hole | Min         | Max |      |       |      |      |         |
| RMW8L-2.5B   | RMW8L-2.5S   | M8×1.25     | Φ8.2          | 1           | 2.5 | 13   | 19.5  | 12   | 13.6 | 1       |
| RMW8L-4B     | RMW8L-4S     | M8×1.25     | Φ8.2          | 2.5         | 4   | 13   | 19.5  | 12   | 13.6 | 1       |
| RMW10S-6B    | RMW10S-6S    | M10×1.5     | —             | 3           | 6   | 8    | 20.5  | 13   | 14.6 | 1       |
| RMW10L-6B    | RMW10L-6S    | M10×1.5     | Φ10.2         | 3           | 6   | 13   | 20.5  | 13   | 14.6 | 1       |
| RMW12S-7B    | RMW12S-7S    | M12×1.5     | Φ12.2         | 3.5         | 7   | 9    | 20.5  | 16   | 17.7 | 1       |
| RMW12L-7B    | RMW12L-7S    | M12×1.5     | Φ12.2         | 3.5         | 7   | 14.5 | 20.5  | 16   | 17.7 | 1       |
| RMW16S-8B    | RMW16S-8S    | M16×1.5     | Φ16.2         | 4           | 8   | 9    | 23.5  | 19.2 | 21.3 | 1       |
| RMW16L-8B    | RMW16L-8S    | M16×1.5     | Φ16.2         | 4           | 8   | 15   | 24    | 19.2 | 21.3 | 1       |
| RMW20S-12B   | RMW20S-12S   | M20×1.5     | Φ20.2         | 6           | 12  | 10   | 29    | 24.3 | 26.8 | 1       |
| RMW20L-12B   | RMW20L-12S   | M20×1.5     | Φ20.2         | 6           | 12  | 15   | 28.5  | 24.3 | 26.8 | 1       |
| RMW25L-17B   | RMW25L-17S   | M25×1.5     | Φ25.2         | 11          | 17  | 15   | 35    | 33.3 | 36.8 | 1       |
| RMW32L-21B   | RMW32L-21S   | M32×1.5     | Φ32.3         | 13          | 21  | 15   | 38    | 36.1 | 39.8 | 1       |
| RMW40L-27B   | RMW40L-27S   | M40×1.5     | Φ40.3         | 18          | 27  | 18   | 43.5  | 46.1 | 51.2 | 1       |
| RMW50L-38B   | RMW50L-38S   | M50×1.5     | Φ50.4         | 27          | 38  | 20   | 50.5  | 60   | 66.5 | 1       |
| RMW10L-6B-P  | RMW10L-6S-P  | M10×1.5     | Φ10.2         | 3           | 6   | 13   | 20.5  | 13   | 14.6 | 100     |
| RMW12S-7B-P  | RMW12S-7S-P  | M12×1.5     | Φ12.2         | 3.5         | 7   | 9    | 20.5  | 16   | 17.7 | 100     |
| RMW12L-7B-P  | RMW12L-7S-P  | M12×1.5     | Φ12.2         | 3.5         | 7   | 14.5 | 20.5  | 16   | 17.7 | 100     |
| RMW16S-8B-P  | RMW16S-8S-P  | M16×1.5     | Φ16.2         | 4           | 8   | 9    | 23.5  | 19.2 | 21.3 | 100     |
| RMW16L-8B-P  | RMW16L-8S-P  | M16×1.5     | Φ16.2         | 4           | 8   | 15   | 24    | 19.2 | 21.3 | 100     |
| RMW20S-12B-P | RMW20S-12S-P | M20×1.5     | Φ20.2         | 6           | 12  | 10   | 29    | 24.3 | 26.8 | 100     |
| RMW20L-12B-P | RMW20L-12S-P | M20×1.5     | Φ20.2         | 6           | 12  | 15   | 28.5  | 24.3 | 26.8 | 100     |

# RMW series silicone sealing insert weatherproof test report

Object: Cut into a piece of the silicone sealing insert from RMW series and attach it onto an aluminium plate.  
For comparison, NBR sealing insert from our RM and EPDM sealing insert from another manufacturer is also attached.



Before



After

## Testing conditions

**Equipment :** 7.5kW Super Xenon Weather Meter SX75 (Suga Test Instruments Co., Ltd.- <http://www.sugatest.co.jp/english/>)  
**Conditions :** JIS B7754 : 1991

Testing with an authorized Xenon arc lamp weathering test equipment under the conditions denoted below.

Irradiance :  $180\text{W/m}^2$  at 300-400nm

Black Panel Temperature :  $63\pm 3^\circ\text{C}$  Humidity Range :  $50\pm 10\%$

Cycle Conditions : 120 minutes cycle (18 minutes irradiation + water spray - 102 minutes irradiation)

**Time period :** 2,000 hours (equivalent to a period of 4 years under natural conditions)

**Total radiant exposure :**  $1296\text{MJ/m}^2$

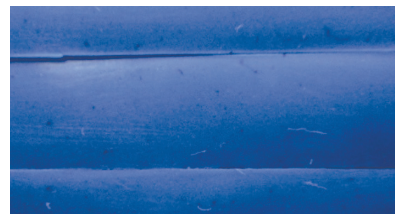
## Test result (visual / touch inspection)

**Silicone sealing insert material :** No cracks, no gloss transition, no powder - no appearance change at all. Flexibility remains unchanged.

Before



After

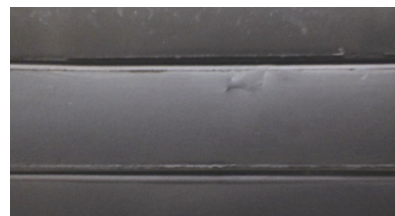


**NBR material from our RM series :** Lost glossiness on the surface and material is stiffened.

Before

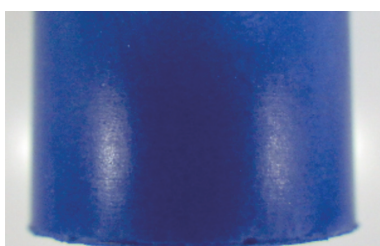


After

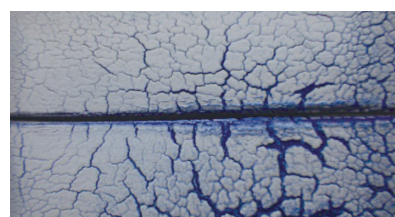


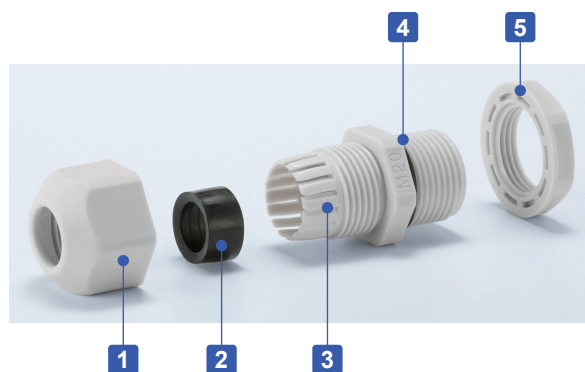
**EPDM material from weatherproof cable gland of another manufacturer :** Cracked, color drastically faded and powder appeared on the surface.

Before



After





- Low cost cable glands made from polyamide material.
- Wide selection, for M8 ~ M63, suitable for  $\Phi 1\text{mm} \sim \Phi 44\text{ mm}$  cable.
- High oil resistant NBR rubber sealing and O-ring.
- Protection class equivalent to IP67.

## Technical Data

Protection class : Equivalent to IP67\*  
Operating temperature :  $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$

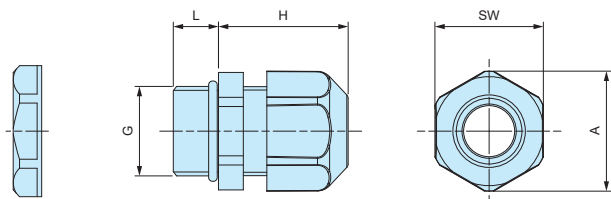
\*In-house test

## Components

■ PA = Polyamide

| No. | Part name      | Material     |
|-----|----------------|--------------|
| 1   | Cap            | PA66 UL94V-2 |
| 2   | Sealing insert | NBR          |
| 3   | Connector      | PA66 UL94V-2 |
| 4   | O-ring         | NBR          |
| 5   | Lock nut       | PA66 UL94V-2 |

## RM dimensions ■ DXF/DWG/PDF drawings available on our website.



- Lock nut is not included for RM8S-2.5, 8S-4, and 10S-6 models.

Please drill an appropriate thread hole into the enclosure for installation.

## Cap design varies by size



RM40 or smaller



RM50 or larger

## Product no. / Details

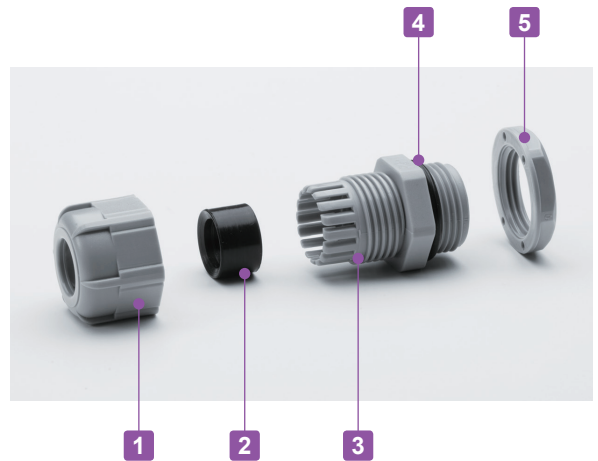
| Product no. |              | G           |               | Cable range |     | L    | H Max | SW   | A    | Pack of |
|-------------|--------------|-------------|---------------|-------------|-----|------|-------|------|------|---------|
| ● Black     | ● Light gray | Thread size | Mounting hole | Min         | Max |      |       |      |      |         |
| RM8S-2.5B   | RM8S-2.5S    | M8×1.25     | —             | 1           | 2.5 | 7.5  | 19.5  | 12   | 13.6 | 1       |
| RM8L-2.5B   | RM8L-2.5S    | M8×1.25     | $\Phi 8.2$    | 1           | 2.5 | 13   | 19.5  | 12   | 13.6 | 1       |
| RM8S-4B     | RM8S-4S      | M8×1.25     | —             | 2.5         | 4   | 7.5  | 19.5  | 12   | 13.6 | 1       |
| RM8L-4B     | RM8L-4S      | M8×1.25     | $\Phi 8.2$    | 2.5         | 4   | 13   | 19.5  | 12   | 13.6 | 1       |
| RM10S-6B    | RM10S-6S     | M10×1.5     | —             | 3           | 6   | 8    | 20.5  | 13   | 14.6 | 1       |
| RM10L-6B    | RM10L-6S     | M10×1.5     | $\Phi 10.2$   | 3           | 6   | 13   | 20.5  | 13   | 14.6 | 1       |
| RM12S-7B    | RM12S-7S     | M12×1.5     | $\Phi 12.2$   | 3.5         | 7   | 9    | 20.5  | 16   | 17.7 | 1       |
| RM12L-7B    | RM12L-7S     | M12×1.5     | $\Phi 12.2$   | 3.5         | 7   | 14.5 | 20.5  | 16   | 17.7 | 1       |
| RM16S-8B    | RM16S-8S     | M16×1.5     | $\Phi 16.2$   | 4           | 8   | 9    | 23.5  | 19.2 | 21.3 | 1       |
| RM16L-8B    | RM16L-8S     | M16×1.5     | $\Phi 16.2$   | 4           | 8   | 15   | 24    | 19.2 | 21.3 | 1       |
| RM20S-12B   | RM20S-12S    | M20×1.5     | $\Phi 20.2$   | 6           | 12  | 10   | 29    | 24.3 | 26.8 | 1       |
| RM20L-12B   | RM20L-12S    | M20×1.5     | $\Phi 20.2$   | 6           | 12  | 15   | 28.5  | 24.3 | 26.8 | 1       |
| RM25L-17B   | RM25L-17S    | M25×1.5     | $\Phi 25.2$   | 11          | 17  | 15   | 35    | 33.3 | 36.8 | 1       |
| RM32L-21B   | RM32L-21S    | M32×1.5     | $\Phi 32.3$   | 13          | 21  | 15   | 38    | 36.1 | 39.8 | 1       |
| RM40L-27B   | RM40L-27S    | M40×1.5     | $\Phi 40.3$   | 18          | 27  | 18   | 43.5  | 46.1 | 51.2 | 1       |
| RM50L-38B   | RM50L-38S    | M50×1.5     | $\Phi 50.4$   | 27          | 38  | 20   | 50.5  | 60   | 66.5 | 1       |
| RM63L-44B   | RM63L-44S    | M63×1.5     | $\Phi 63.4$   | 37          | 44  | 20   | 53    | 68   | 75.5 | 1       |
| RM10L-6B-P  | RM10L-6S-P   | M10×1.5     | $\Phi 10.2$   | 3           | 6   | 13   | 20.5  | 13   | 14.6 | 100     |
| RM12S-7B-P  | RM12S-7S-P   | M12×1.5     | $\Phi 12.2$   | 3.5         | 7   | 9    | 20.5  | 16   | 17.7 | 100     |
| RM12L-7B-P  | RM12L-7S-P   | M12×1.5     | $\Phi 12.2$   | 3.5         | 7   | 14.5 | 20.5  | 16   | 17.7 | 100     |
| RM16S-8B-P  | RM16S-8S-P   | M16×1.5     | $\Phi 16.2$   | 4           | 8   | 9    | 23.5  | 19.2 | 21.3 | 100     |
| RM16L-8B-P  | RM16L-8S-P   | M16×1.5     | $\Phi 16.2$   | 4           | 8   | 15   | 24    | 19.2 | 21.3 | 100     |
| RM20S-12B-P | RM20S-12S-P  | M20×1.5     | $\Phi 20.2$   | 6           | 12  | 10   | 29    | 24.3 | 26.8 | 100     |
| RM20L-12B-P | RM20L-12S-P  | M20×1.5     | $\Phi 20.2$   | 6           | 12  | 15   | 28.5  | 24.3 | 26.8 | 100     |
| RM25L-17B-P | RM25L-17S-P  | M25×1.5     | $\Phi 25.2$   | 11          | 17  | 15   | 35    | 33.3 | 36.8 | 100     |

## RPG SERIES

## POLYAMIDE CABLE GLAND

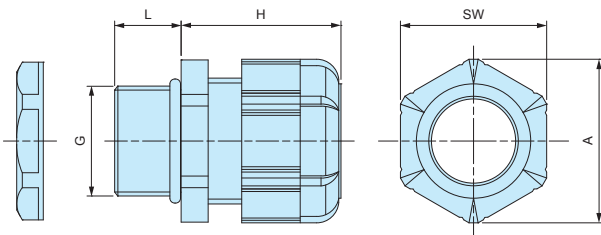


IP67



- Inexpensive cable glands made from polyamide material with PG threading.
- High oil resistant NBR rubber sealing and O-ring.
- IP67 protection class.

## RPG dimensions



- DXF/DWG/PDF drawings available on our website.

## Components

■ PA = Polyamide

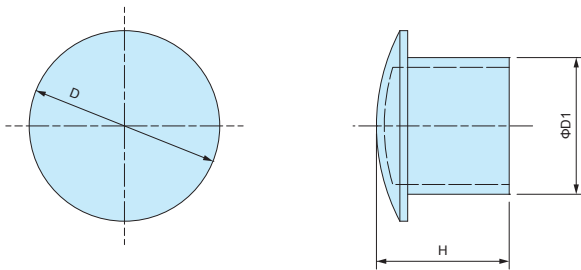
| No. | Part name      | Material     |
|-----|----------------|--------------|
| 1   | Cap            | PA66 UL94V-2 |
| 2   | Sealing insert | NBR          |
| 3   | Connector      | PA66 UL94V-2 |
| 4   | O-Ring         | NBR          |
| 5   | Lock-nut       | PA66 UL94V-2 |

## Technical Data

Protection class: IP67  
Operating temperature: -20°C ~ +80°C

## Product no. / Dimensions

| Product no. |             | G           |             |               | Cable range |     | L  | H<br>Max | SW   | A    | Pack of |
|-------------|-------------|-------------|-------------|---------------|-------------|-----|----|----------|------|------|---------|
| ● Black     | ● Gray      | Thread size | Thread dia. | Mounting hole | Min         | Max |    |          |      |      |         |
| RPG7-7B     | RPG7-7G     | PG7         | 12.5        | Φ12.7         | 3           | 7   | 9  | 20.5     | 16   | 17.7 | 1       |
| RPG9-8B     | RPG9-8G     | PG9         | 15.2        | Φ15.4         | 4           | 8   | 9  | 23.5     | 19   | 21   | 1       |
| RPG11-10B   | RPG11-10G   | PG11        | 18.6        | Φ18.8         | 5           | 10  | 9  | 26       | 22   | 24   | 1       |
| RPG13.5-11B | RPG13.5-11G | PG13.5      | 20.4        | Φ20.6         | 6           | 11  | 10 | 29       | 24   | 26.4 | 1       |
| RPG16-14B   | RPG16-14G   | PG16        | 22.5        | Φ22.7         | 8           | 14  | 10 | 30       | 26.7 | 29.5 | 1       |
| RPG21-18B   | RPG21-18G   | PG21        | 28.3        | Φ28.5         | 13          | 18  | 12 | 35       | 33   | 36.5 | 1       |
| RPG29-25B   | RPG29-25G   | PG29        | 37          | Φ37.2         | 18          | 25  | 12 | 41.5     | 42   | 46.5 | 1       |

**SP SERIES****SEALING PLUG****SP dimensions**

■ Material : Nylon

- Sealing plug for cable glands when not in use.
- Maintain a waterproof seal when plugged into the sealing insert on cable glands.

**Product no. / Dimensions**

| Product no. | D    | D1   | H    | Suitable cable glands                | Pack of |
|-------------|------|------|------|--------------------------------------|---------|
| SP-12       | 10.2 | 6    | 15.5 | RMW12, RM12, RMW16, RM16, RPG7, RPG9 | 10      |
| SP-16       | 15.6 | 9.5  | 15.5 | RMW20, RM20, RPG11, RPG13.5          | 10      |
| SP-20       | 19.6 | 13.5 | 16.5 | RPG16                                | 10      |
| SP-25       | 24.4 | 17.5 | 17   | RMW25, RM25, RMW32, RM32, RPG21      | 5       |
| SP-40       | 32.5 | 24.5 | 17.5 | RMW40, RM40, RPG29                   | 5       |
| SP-50       | 47.2 | 38.9 | 17.6 | RMW50, RM50                          | 5       |





- Torque wrench with interchangeable head.
- Suitable for the tightening of cable glands requiring a specific torque.
- Open end interchangeable head (spanner head) TWE series available separately.
- Spanner head is not included.

## Product no. / Details

| Product no. | Length | Torque range (N · m) | Increments (N · m) |
|-------------|--------|----------------------|--------------------|
| TWH0.5-5    | 215    | 0.5 ~ 5.0            | 0.05               |

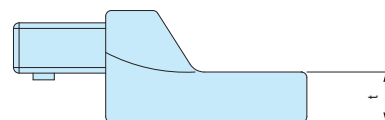
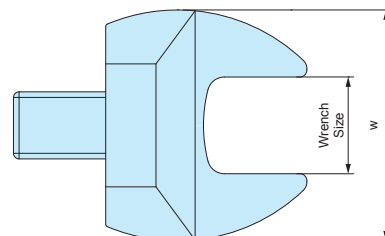
## Notes

The torque wrench is not subject to RoHS regulations.

Since it is an OEM product and not a JIS-compliant product, no calibration services or inspection reports, etc. are provided.

When tightening, proceed first with a low value (half of the reference) of the recommended torque, and set the appropriate tightening torque for the cable and mounting part that will be tightened thereafter.

Please read the operation manual (refer to TAKACHI website) before use to ensure correct and safe usage of the product.



- Dedicated open end interchangeable head for TWH series.
- Various interchangeable heads are available to fit a range of cable gland sizes.

## Product no. / Details

| Product no. | Wrench size | w  | t  |
|-------------|-------------|----|----|
| TWE- 8      | 8           | 27 | 6  |
| TWE- 9      | 9           | 27 | 6  |
| TWE-11      | 11          | 27 | 6  |
| TWE-12      | 12          | 30 | 6  |
| TWE-13      | 13          | 31 | 6  |
| TWE-15      | 15          | 40 | 9  |
| TWE-16      | 16          | 40 | 9  |
| TWE-17      | 17          | 41 | 9  |
| TWE-18      | 18          | 42 | 9  |
| TWE-19      | 19          | 42 | 10 |
| TWE-21      | 21          | 47 | 10 |

| Product no. | Wrench size | w  | t  |
|-------------|-------------|----|----|
| TWE-22      | 22          | 52 | 10 |
| TWE-23      | 23          | 53 | 11 |
| TWE-24      | 24          | 55 | 11 |
| TWE-27      | 27          | 58 | 13 |
| TWE-29      | 29          | 58 | 13 |
| TWE-30      | 30          | 65 | 14 |
| TWE-32      | 32          | 65 | 14 |
| TWE-33      | 33          | 65 | 14 |
| TWE-34      | 34          | 70 | 15 |
| TWE-36      | 36          | 72 | 15 |

Note: These open end head is not subject to RoHS regulations.

# Suitable TWE model

## RM • RMW series

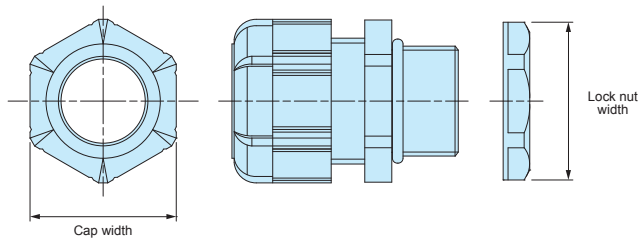
| Product no.    | Cap width | Suitable model | Lock nut width | Suitable model |
|----------------|-----------|----------------|----------------|----------------|
| RM8S-2.5       | 11.8      | TWE-12         | –              | n/a            |
| RM • RMW8L-2.5 | 11.8      | TWE-12         | 12.6           | TWE-13         |
| RM8S-4         | 11.8      | TWE-12         | –              | n/a            |
| RM • RMW8L-4   | 11.8      | TWE-12         | 12.6           | TWE-13         |
| RM • RMW10S-6  | 13        | TWE-13         | –              | n/a            |
| RM • RMW10L-6  | 13        | TWE-13         | 14.8           | TWE-15         |
| RM • RMW12S-7  | 16        | TWE-16         | 17             | TWE-17         |
| RM • RMW12L-7  | 16        | TWE-16         | 17             | TWE-17         |
| RM • RMW16S-8  | 19        | TWE-19         | 22             | TWE-22         |
| RM • RMW16L-8  | 19        | TWE-19         | 22             | TWE-22         |
| RM • RMW20S-12 | 24        | TWE-24         | 26.2           | n/a            |
| RM • RMW20L-12 | 24        | TWE-24         | 26.2           | n/a            |
| RM • RMW25L-17 | 33        | TWE-33         | 32.6           | n/a            |
| RM • RMW32L-21 | 36        | TWE-36         | 40.3           | n/a            |
| RM • RMW40L-27 | 45.7      | n/a            | 51             | n/a            |
| RM • RMW50L-38 | 60        | n/a            | 61.2           | n/a            |
| RM63L-44       | 68        | n/a            | 73.4           | n/a            |

## RPG series

| Product no. | Cap width | Suitable model | Lock nut width | Suitable model |
|-------------|-----------|----------------|----------------|----------------|
| RPG7-7      | 16        | TWE-16         | 18.7           | TWE-19         |
| RPG9-8      | 19        | TWE-19         | 21.8           | TWE-22         |
| RPG11-10    | 22        | TWE-22         | 23.7           | TWE-24         |
| RPG13.5-11  | 24        | TWE-24         | 27             | TWE-27         |
| RPG16-14    | 26.7      | TWE-27         | 29.8           | TWE-30         |
| RPG21-18    | 33        | n/a            | 35.8           | TWE-36         |
| RPG29-25    | 42        | n/a            | 45.8           | n/a            |

## RSP series

| Product no. | Cap width | Suitable model | Lock nut width | Suitable model |
|-------------|-----------|----------------|----------------|----------------|
| RSP12-6     | 16        | TWE-16         | 17             | TWE-17         |
| RSP16-8     | 19.5      | n/a            | 22             | TWE-22         |
| RSP20-11    | 24        | TWE-24         | 26.2           | n/a            |
| RSP25-16    | 33        | TWE-33         | 32.6           | n/a            |



Note 1) ""n/a"" indicates no suitable spanner head size and torque value available.

Note 2) Dimensions of Cap and Lock nut width are in mm.

## AG series

| Product no. | Cap width | Suitable model | Lock nut width | Suitable model |
|-------------|-----------|----------------|----------------|----------------|
| AG8-3.5     | 12        | TWE-12         | –              | n/a            |
| AG8-5       | 12        | TWE-12         | –              | n/a            |
| AG10-6      | 15        | TWE-15         | –              | n/a            |
| AG12-5      | 17        | TWE-17         | 17             | TWE-17         |
| AG12-6.5    | 17        | TWE-17         | 17             | TWE-17         |
| AG12-8      | 17        | TWE-17         | 17             | TWE-17         |
| AG16-10     | 21        | TWE-21         | 22             | TWE-22         |
| AG20-15     | 27        | TWE-27         | 27             | TWE-27         |
| AG25-16     | 34        | TWE-34         | 33             | TWE-33         |
| AG25-20     | 34        | TWE-34         | 33             | TWE-33         |
| AG32-25.5   | 41        | n/a            | 42             | n/a            |
| AG40-28.5   | 50        | n/a            | 48             | n/a            |
| AG40-33     | 50        | n/a            | 48             | n/a            |
| AG50-37     | 60        | n/a            | 59             | n/a            |
| AG50-42     | 60        | n/a            | 59             | n/a            |

## AGM series

| Product no. | Cap width | Suitable model | Lock nut width | Suitable model |
|-------------|-----------|----------------|----------------|----------------|
| AGM6-2.5    | 8         | TWE-8          | 9              | TWE- 9         |
| AGM6-3      | 8         | TWE-8          | 9              | TWE- 9         |
| AGM6-3.5    | 8         | TWE-8          | 9              | TWE- 9         |
| AGM8-5      | 11        | TWE-11         | 11             | TWE-11         |
| AGM10-6     | 13        | TWE-13         | 13             | TWE-13         |
| AGM12-8     | 15        | TWE-15         | 15             | TWE-15         |
| AGM16-10.5  | 18        | TWE-18         | 19             | TWE-19         |
| AGM20-15    | 24        | TWE-24         | 24             | TWE-24         |
| AGM25-20    | 30        | TWE-30         | 30             | TWE-30         |
| AGM32-25.5  | 36        | TWE-36         | 36             | TWE-36         |
| AGM40-28.5  | 46        | n/a            | 51             | n/a            |
| AGM40-33    | 46        | n/a            | 51             | n/a            |
| AGM50-37    | 55        | n/a            | 60             | n/a            |
| AGM50-42    | 55        | n/a            | 60             | n/a            |

## AGE series

| Product no. | Cap width | Suitable model | Lock nut width | Suitable model |
|-------------|-----------|----------------|----------------|----------------|
| AGE12-5     | 15        | TWE-15         | 15             | TWE-15         |
| AGE12-6.5   | 15        | TWE-15         | 15             | TWE-15         |
| AGE16-10.5  | 18        | TWE-18         | 19             | TWE-19         |
| AGE20-15    | 24        | TWE-24         | 24             | TWE-24         |
| AGE25-20    | 30        | TWE-30         | 30             | TWE-30         |
| AGE32-25    | 36        | n/a            | 36             | n/a            |

## AGH series

| Product no. | Cap width | Suitable model | Lock nut width | Suitable model |
|-------------|-----------|----------------|----------------|----------------|
| AGH10-6     | 13        | TWE-13         | 13             | TWE-13         |
| AGH12-8     | 15        | TWE-15         | 15             | TWE-15         |
| AGH16-10.5  | 18        | TWE-18         | 19             | TWE-19         |
| AGH20-15    | 24        | TWE-24         | 24             | TWE-24         |
| AGH25-20    | 30        | TWE-30         | 30             | TWE-30         |
| AGH32-25.5  | 36        | TWE-36         | 36             | TWE-36         |

# TWH0.5-5 Torque Wrench Operation Manual

## 1 For Safety Use

### Safety Precautions

Please read this manual carefully before use while following operation instructions.

The manufacturer / retailer etc. will not be are not liable for any personal injuries, damage to the product, or other property damage, etc. caused by improper use.

### Warnings



- Do not use beyond the maximum torque value. This may cause damage and injury.
- Do not use the torque wrench as a hammer or lever, or applying strong impact.
- Do not modify or disassemble the torque wrench. These may cause strength or accuracy problems, which may lead to accidents and injuries.
- Before use, check for damage, cracks, rust, or deformation. These may cause damage and injury.
- Do not use the torque wrench to loosen nuts or caps as it is a precision instrument.
- Do not operate the torque wrench with oily or greasy hands. This may cause your hands to slip while tightening, leading to accidents or injuries.
- Wear safety glasses or other eye protection while using.
- Be careful not to hit your hands or elbows on surrounding objects when working with a torque wrench.
- Do not use the torque wrench underwater or in the sea.
- When working on elevated platforms, take measures to prevent torque wrenches from falling.

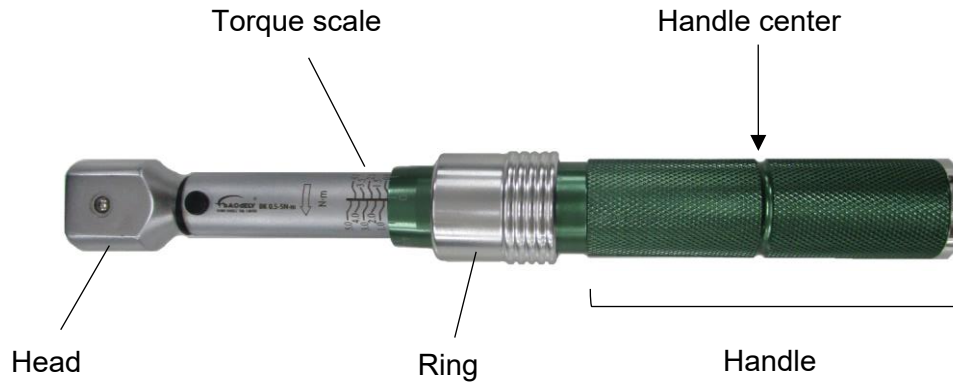
### Cautions



- Set the torque before each use.
- Do not lower the scale below the minimum.
- Do not use it outside of the torque scale range.
- Every time before setting the torque, ensure that the handle lock is in the unlock position first before rotating the handle.
- Grip the center of the handle to tighten. Gripping the edge of the handle may cause incorrect torque value.
- Tighten slowly while applying minimal force. Otherwise applied torque value may be incorrect.
- Stop tightening after hearing, or feeling a clicking sound or sensation. Further tightening may result in overtorque.
- Do not use parts such as a pipe to extend the handle.
- Do not drop the torque wrench or apply strong impact.
- Do not use in high temperature and humid environments.
- After use, set the torque wrench to the minimum value.
- After use, remove dirt, dust, mud, oil, water, etc. before storing.
- Store in a dry place when not in use for an extended period of time.



## 2 Components



## 3 How to use

| ① Push and hold the ring down to unlock.                                                                                                                                                                                                                 | ② Turn the handle.                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>A blue arrow points downwards towards the green adjustment ring, indicating it should be pushed down.</p>                                                          |  <p>Two blue curved arrows indicate the handle should be rotated. Text: · Turn the handle while the ring is in the unlock position.</p>                           |
| ③ Adjust to required torque.                                                                                                                                                                                                                             | ④ Release the ring.                                                                                                                                                                                                                                   |
|  <p>A red arrow points to the green ring, which is being rotated to align the '0' mark on the scale with the 'N·m' label. The scale has markings from 1.0 to 5.0.</p> |  <p>A blue arrow points upwards towards the green ring, indicating it should be released. Text: · The ring will spring back to its original (lock) position.</p> |

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