

# ShinMaywa

## Lightweight Submersible Pumps

Output : 0.15~2.2kW **NORUS**  
series

**The combination of "engineering plastic" and "stainless steel" makes the pumps lighter in weight and greater in toughness.**





# New Generation of Pumps<sup>®</sup>

## NORUS<sup>®</sup>

series

The combination of "engineering plastic" and "stainless steel" makes the pumps lighter in weight and greater in toughness.

### Air vent valve

A ball-shaped air vent valve installed at the bottom of the companion flange releases air that resides in the pump chamber, thereby preventing an air lock.

### Prevention of water leakage during automatic connection

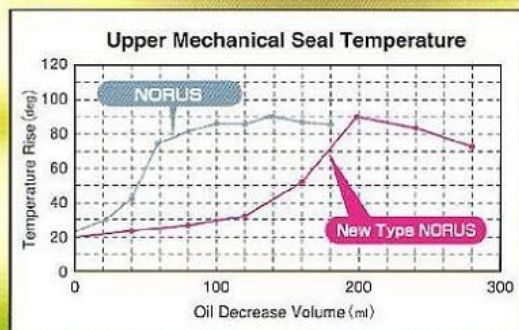
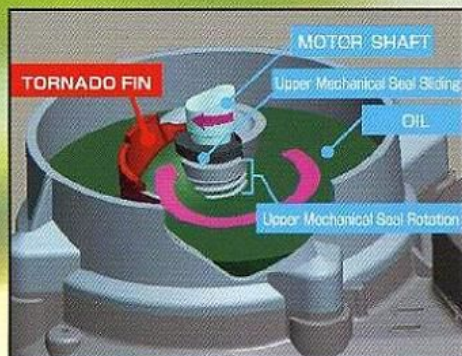
The top of the pump chamber is provided with many holes for releasing air, thereby stably installing the pump in place. This also serves to prevent the leakage of water during automatic connection.

### TORNADO FIN

Achieved long life of mechanical seal (Over 250W)  
(Applicable : CR & CRS 0.25~0.75kW)

**NEW**

Equipped with TORNADO FIN to cool mechanical seal chamber temperature so that deterioration of mechanical seal can be prevented. Also, oil volume is increased 66% (from 240cc to 400cc), therefore, more long life can be achieved.



### Rubber protector fitted to important parts

The important parts which are made of a special-grade resin having high impact strength are provided with a rubber protector to further improve against impact resistance.

### One-point lifting for easy installation

The pump can be easily hanged up and down using a single hole in the handle.

### Screws which hardly become loose

The use of glass fiber and a specially designed screw taking into consideration the pump deformation with the lapse of time and due to heat prevents the leakage of water caused by loose screws.

### Excellent corrosion resistance

SUS 304 and engineering plastic are also used for the stator casing and wet part, offering better corrosion resistance than the cast iron ones in conventional models. As a result, the "NORUS" of pumps achieves good corrosion resistance even under severer working conditions. In addition, the "NORUS" is hardly damaged by rust. Normally, only maintenance required of the "NORUS" is washing.

**NEW**

### Seamless Stator Casing Structure

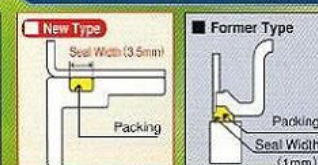
No welded area, improved corrosion resistance by enlarged seal width  
(Applicable : CR & CRS 0.15~0.75kW)

Seamless stator casing structure is employed by press process so that no welded area on stator casing to prevent rust from junction. Also, packing seal width is enlarged to prevent rust between gap.

#### Upper Motor Seal



#### Lower Motor Seal



### Tough for in the air operation

Low temperature rise motor achieves 30 minutes continuous in the air operation at low water level. Low exothermic of motor and low bearing temperature rise.

### Wear resistant vortex impeller which is hardly clogged with foreign matter

Model CR and CRS employ a vortex type impeller. Since the vortex impeller reduces the tangling of fibrous matter, the CR series is comparable or superior in pumping performance to conventional vortex type pumps. The impeller is made of engineering plastic having excellent wear resistance. It is more than 100 times as strong as impellers made of ordinary ABS resin against the wear caused by sand, detergents, solids, etc. contained in sludge. Therefore, the "NORUS" can be used even in raw water containing considerable amounts of solids.



Impeller made of engineering plastic  
After 200 hours of pump operation Loss of impeller weight: 3.3%



Impeller made of ordinary ABS resin  
After 24 hours of pump operation Loss of impeller weight: 46%

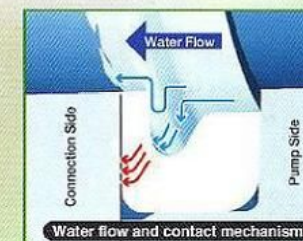
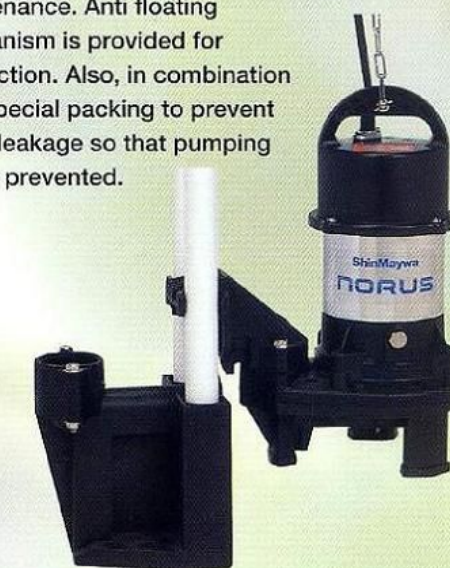
\*Test condition: Pump was operated in 600 liters of water containing 120 kg of sand.

### Principal Specifications

|                   |                    |                                                                                                                     |                          |
|-------------------|--------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------|
| Applicable liquid | Liquid type        | Waste water or raw water containing sludge                                                                          |                          |
|                   | Liquid temperature | 0~40°C                                                                                                              |                          |
| Material          | Pump shaft         | SUS420J <sub>2</sub> or SUS304                                                                                      |                          |
|                   | Stator casing      | SUS304                                                                                                              |                          |
|                   | Pump casing        | Engineering Plastic (reinforced with glass fiber)                                                                   |                          |
|                   | Impeller           | Vortex:CR, CRS<br>Closed:CRS                                                                                        |                          |
| Structure         | Impeller           | Double mechanical seal<br>Wet side:SiC x SiC<br>Motor side: Ceramic x Carbon (0.15~0.75kW)<br>SiC x SiC (1.5~2.2kW) |                          |
|                   | shaft seal         |                                                                                                                     |                          |
| Motor             | Type               | Dry-type submersible induction motor                                                                                |                          |
|                   | Insulation class   | Class E                                                                                                             |                          |
|                   | Phase              | Single phase (0.15~0.4kW)                                                                                           | Three phase (0.15~2.2kW) |
|                   | Starting method    | Condenser-run                                                                                                       | Direct-on-line           |

### High Pumping Capability with Automatic Connection

Line up with automatic connection type for easy installation and maintenance. Anti floating mechanism is provided for connection. Also, in combination with special packing to prevent water leakage so that pumping loss is prevented.





## Lightweight Submersible Pump

# CR

High passing capability type materialized as a result of giving priority to the smooth passing of foreign matter

[Actual Size]  
Debris Passage Dia  
**35mm**

0.15~0.75kW

[Actual Size]  
Debris Passage Dia  
**46mm**

1.5~2.2kW

## Application

- For treating raw water at water treatment plants, etc.
- For controlling liquid flow rate
- For returning sludge



Non-Automatic Operation



With Automatic Float Switch

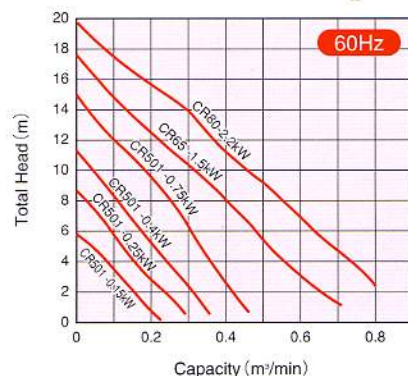
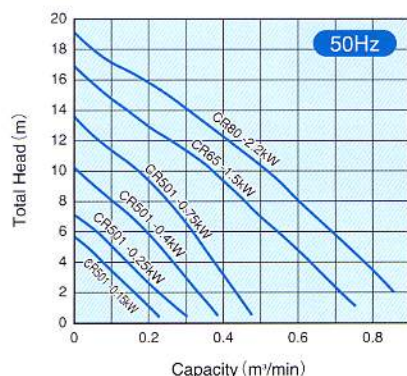


Automatic Alternate Operation

## Standard Specifications

| Bore<br>mm | Pump Model                 |                                |                               |                     | Connection Type         |                      | Phase      | Output<br>kW | Capacity—Total Head |            | Weight (kg) |              |
|------------|----------------------------|--------------------------------|-------------------------------|---------------------|-------------------------|----------------------|------------|--------------|---------------------|------------|-------------|--------------|
|            | Non-Automatic<br>Operation | With Automatic<br>Float Switch | Automatic Alternate Operation |                     | Automatic<br>Connection | Flange<br>Connection |            |              | m³/min—m            |            | CR          | CR-D<br>CR-W |
|            |                            |                                | Pair Designation              | Pump No.1+Pump No.2 |                         |                      |            |              | 50Hz                | 60Hz       |             |              |
| 50         | CR501S                     | CR501DS                        | CR501DWS                      | CR501WS+CR501DS     | P50RL                   | F50                  | 1          | 0.15         | 0.1 — 3.5           | 0.1 — 3.5  | 5.5         | 6.0          |
|            |                            |                                |                               |                     |                         |                      |            | 0.25         | 0.13 — 4.5          | 0.13 — 4.8 | 7.0         | 7.5          |
|            |                            |                                |                               |                     |                         |                      |            | 0.4          | 0.16 — 6.8          | 0.16 — 6.4 | 8.2         | 8.7          |
|            | CR501T                     | CR501DT                        | —                             | —                   |                         |                      | 3          | 0.15         | 0.1 — 3.5           | 0.1 — 3.5  | 4.9         | 5.4          |
|            |                            |                                |                               |                     |                         |                      |            | 0.25         | 0.13 — 4.5          | 0.13 — 4.8 | 6.3         | 6.8          |
|            |                            |                                |                               |                     |                         |                      |            | 0.4          | 0.16 — 6.8          | 0.16 — 6.4 | 7.4         | 7.9          |
| CR501      | CR501D                     | —                              | —                             |                     | 0.75                    | 0.22 — 8.8           | 0.22 — 8.9 | 8.8          | 9.3                 |            |             |              |
| 65         | CR65                       | —                              | —                             | —                   | P65NR                   | F65N                 | 3          | 1.5          | 0.4 — 9.3           | 0.4 — 7.9  | 16          | —            |
|            | CR80                       | —                              | —                             | —                   |                         |                      |            | 2.2          | 0.4 — 12.3          | 0.4 — 11.3 | 19          | —            |
|            | CR65                       | —                              | —                             | —                   |                         |                      |            | P80NR        | F80N                | 3          | 1.5         | 0.4 — 9.3    |
| CR80       | —                          | —                              | —                             | 2.2                 | 0.4 — 12.3              | 0.4 — 11.3           | 19         |              |                     |            | —           |              |

## Performance Curves



## Standard Accessories

- Cable (5m) 0.15~0.75kW ... 1 [8m 1.5~2.2kW] ... 1
- Companion flange ... 1
- Spare nameplate ... 1
- (Float switch ... 1)
- with Automatic Float switch for Automatic Alternate Operation (CR-D/CR-W Type)

## Automatic connection set

- Connection
- Guide holder (with bolts & nuts)
- Sliding bracket
- Pump lifting chain
- Shackle



# Lightweight Submersible Pump

# CRS

Universal type with improved passing capability and pumping performance available

## Application

- For treating raw water at water treatment plants, etc.
- For controlling liquid flow rate
- For returning sludge



[Actual Size]  
Debris Passage Dia  
**20mm**

0.15-0.25kW

[Actual Size]  
Debris Passage Dia  
**25mm**

0.4-0.75kW

[Actual Size]  
Debris Passage Dia  
**30mm**

1.5-2.2kW



Non-Automatic Operation



With Automatic Float Switch

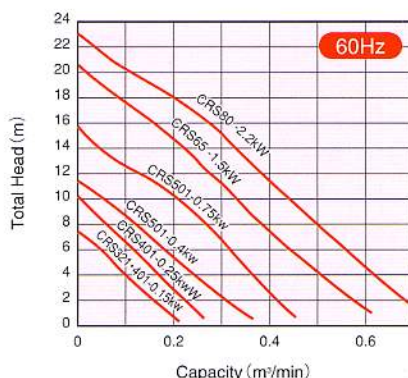
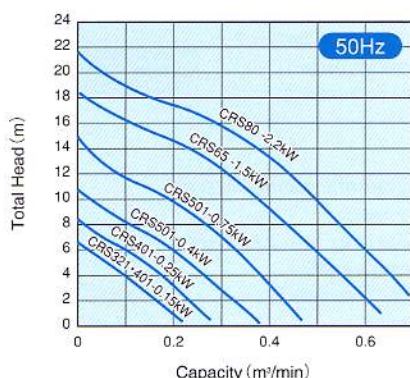


Automatic Alternate Operation

## Standard Specifications

| Bore<br>mm | Pump Model                 |                                |                               |                     | Connection Type         |                      | Phase | Output<br>kW | Capacity—Total Head |            | Weight (kg) |                |
|------------|----------------------------|--------------------------------|-------------------------------|---------------------|-------------------------|----------------------|-------|--------------|---------------------|------------|-------------|----------------|
|            | Non-Automatic<br>Operation | With Automatic<br>Float Switch | Automatic Alternate Operation |                     | Automatic<br>Connection | Flange<br>Connection |       |              | m³/min—m            |            | CRS         | CRS-D<br>CRS-V |
|            |                            |                                | Pair Designation              | Pump No.1+Pump No.2 |                         |                      |       |              | 50Hz                | 60Hz       |             |                |
| 32         | CRS321S                    | CRS321DS                       | CRS321DWS                     | CRS321WS+CRS321DS   | P32RL                   | F32                  | 1     | 0.15         | 0.1 — 3.9           | 0.1 — 3.9  | 5.4         | 5.9            |
| 40         | CRS401S                    | CRS401DS                       | CRS401DWS                     | CRS401WS+CRS401DS   | P40RL                   | F40                  | 1     | 0.15         | 0.1 — 3.9           | 0.1 — 3.9  | 5.4         | 5.9            |
|            |                            |                                |                               |                     |                         |                      |       | 0.25         | 0.13 — 5.3          | 0.13 — 5.4 | 6.9         | 7.4            |
|            | CRS401T                    | CRS401DT                       | CRS401DWT                     | CRS401WT+CRS401DT   |                         |                      | 3     | 0.15         | 0.1 — 3.9           | 0.1 — 3.9  | 4.8         | 5.3            |
|            |                            |                                |                               |                     |                         |                      |       | 0.25         | 0.13 — 5.3          | 0.13 — 5.4 | 6.2         | 6.7            |
| 50         | CRS501S                    | CRS501DS                       | CRS501DWS                     | CRS501WS+CRS501DS   | P50RL                   | F50                  | 1     | 0.4          | 0.16 — 7.2          | 0.16 — 6.8 | 8.1         | 8.6            |
|            | CRS501T                    | CRS501DT                       | CRS501DWT                     | CRS501WT+CRS501DT   |                         |                      |       | 3            | 0.4                 | 0.16 — 7.2 | 0.16 — 6.8  | 7.3            |
|            | CRS501                     | CRS501D                        | CRS501DW                      | CRS501W+CRS501D     |                         |                      | 0.75  |              | 0.22 — 9.2          | 0.22 — 9.4 | 8.7         | 9.2            |
|            | CRS65                      | CRS65D                         | CRS65DW                       | CRS65W+CRS65D       |                         |                      | P50NR | F50N         | 3                   | 1.5        | 0.4 — 9.9   | 0.4 — 7.8      |
| 65         | CRS65                      | CRS65D                         | CRS65DW                       | CRS65W+CRS65D       | P65NR                   | F65N                 | 3     | 1.5          | 0.4 — 9.9           | 0.4 — 7.8  | 16          | 16.5           |
|            | CRS80                      | CRS80D                         | CRS80DW                       | CRS80W+CRS80D       |                         |                      |       | 2.2          | 0.4 — 13.4          | 0.4 — 11.8 | 19          | 19.5           |
| 80         | CRS65                      | CRS65D                         | CRS65DW                       | CRS65W+CRS65D       | P80NR                   | F80N                 | 3     | 1.5          | 0.4 — 9.9           | 0.4 — 7.8  | 16          | 16.5           |
|            | CRS80                      | CRS80D                         | CRS80DW                       | CRS80W+CRS80D       |                         |                      |       | 2.2          | 0.4 — 13.4          | 0.4 — 11.8 | 19          | 19.5           |

## Performance Curves



## Standard Accessories

- Cable (5m) 0.15~0.75kW ...1
- [8m 1.5~2.2kW] ...1
- Companion flange ...1
- Spare nameplate ...1
- Float switch ...1
- with Automatic Float switch for Automatic Alternate Operation (CRS-D/CRS-W Type)

## Automatic connection set

- Connection
- Guide holder (with bolts & nuts)
- Sliding bracket
- Pump lifting chain
- Shackle



## Lightweight Submersible Pump

# CRC

High pump head with closed impeller

[Actual Size]



Debris Passage Dia

## 7mm

0.4 · 0.75kW

[Actual Size]



Debris Passage Dia

## 12mm

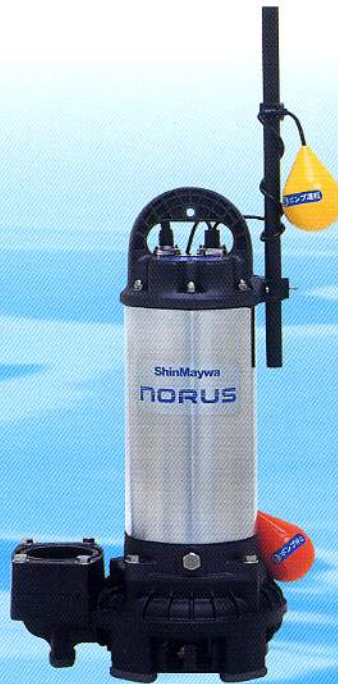
1.5 · 2.2kW

## Application

- For use at water treatment facilities, etc. to suppress foaming or to discharge treated waste water
- For use to discharge rain water or spring water from underground passages, etc.
- For use to drain buildings, factories, basements, etc.



Non-Automatic Operation



With Automatic Float Switch

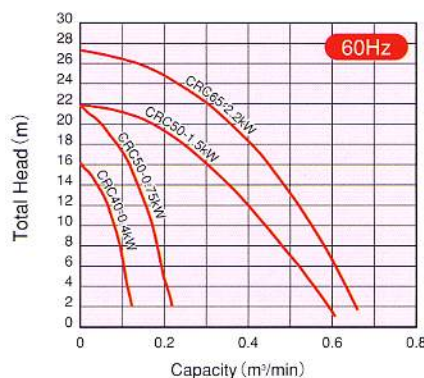
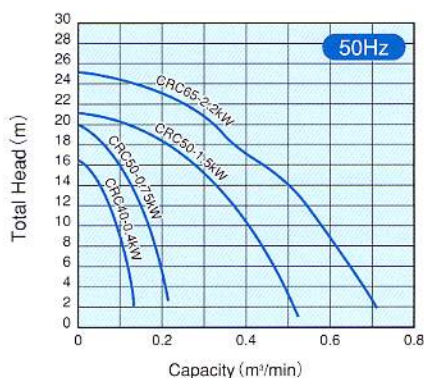


Automatic Alternate Operation

## Standard Specifications

| Bore<br>mm | Pump Model                 |                                |                               |                     | Connection Type         |                      | Phase | Output<br>kW | Capacity—Total Head |             | Weight (kg) |                |
|------------|----------------------------|--------------------------------|-------------------------------|---------------------|-------------------------|----------------------|-------|--------------|---------------------|-------------|-------------|----------------|
|            | Non-Automatic<br>Operation | With Automatic<br>Float Switch | Automatic Alternate Operation |                     | Automatic<br>Connection | Flange<br>Connection |       |              | m³/min—m            |             | CRC         | CRC-D<br>CRC-W |
|            |                            |                                | Pair Designation              | Pump No.1+Pump No.2 |                         |                      |       |              | 50Hz                | 60Hz        |             |                |
| 40         | CRC40S                     | CRC40DS                        | —                             | —                   | P40RH                   | F40                  | 1     | 0.4          | 0.05 — 14.2         | 0.05 — 14.0 | 8.9         | 9.4            |
|            | CRC40T                     | CRC40DT                        | —                             | —                   |                         |                      | 3     |              | 0.05 — 14.2         | 0.05 — 14.0 | 8.8         | 9.3            |
| 50         | CRC50                      | CRC50D                         | —                             | —                   | P50RH                   | F50                  | 3     | 0.75         | 0.10 — 16.0         | 0.10 — 17.0 | 10.2        | 10.7           |
|            |                            |                                | CRC50DW                       | CRC50W+CRC50D       | P50NR                   | F50N                 |       | 1.5          | 0.2 — 18.2          | 0.2 — 18.4  | 16          | 16.5           |
| 65         | CRC50                      | CRC50D                         | CRC50DW                       | CRC50W+CRC50D       | P65NR                   | F65N                 | 3     | 1.5          | 0.2 — 18.2          | 0.2 — 18.4  | 16          | 16.5           |
|            | CRC65                      | CRC65D                         | CRC65DW                       | CRC65W+CRC65D       |                         |                      |       | 2.2          | 0.3 — 20.6          | 0.3 — 21.3  | 19          | 19.5           |
| 80         | CRC65                      | CRC65D                         | CRC65DW                       | CRC65W+CRC65D       | P80NR                   | F80N                 | 3     | 2.2          | 0.3 — 20.6          | 0.3 — 21.3  | 19          | 19.5           |

## Performance Curves



## Standard Accessories

- Cable (5m) 0.15~0.75kW ... 1
- [8m 1.5~2.2kW] ... 1
- Companion flange ... 1
- Spare nameplate ... 1
- Float switch ... 1
- with Automatic Float switch for Automatic Alternate Operation (CRC-D/CRC-W Type)

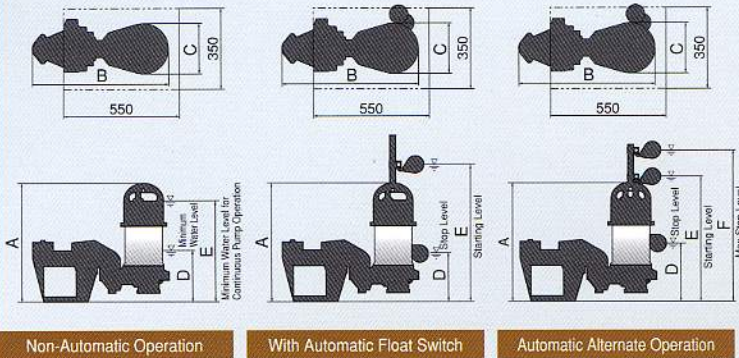
## Automatic connection set

- Connection
- Guide holder (with bolts & nuts)
- Sliding bracket
- Pump lifting chain
- Shackle

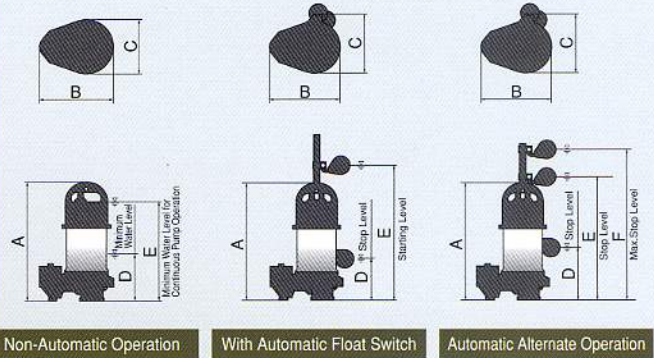


# Dimensions

## Automatic Connection



## Flange Connection



### Automatic Connection

|                               | Pump Model | Connection Type | Output (kW) | A   | B   | C   | D   | E   | F   |
|-------------------------------|------------|-----------------|-------------|-----|-----|-----|-----|-----|-----|
| Non-Automatic Operation       | CR         | CR501S/T        | 0.15        | 395 | 436 | 144 | 165 | 345 | —   |
|                               |            |                 | 0.25        | 409 | 470 | 175 |     |     |     |
|                               |            |                 | 0.4         | 409 | 470 | 175 |     |     |     |
|                               |            |                 | 0.75        | 409 | 470 | 175 |     |     |     |
|                               |            | CR501           | 0.75        | 409 | 470 | 175 |     |     |     |
|                               | CRS        | CR65            | 1.5         | 536 | 621 | 203 | 200 | 470 | —   |
|                               |            | CR80            | 2.2         | 561 | 621 | 203 |     |     |     |
|                               |            | CRS321S         | 0.15        | 395 | 436 | 144 |     |     |     |
|                               |            | CRS401S/T       | 0.25        | 409 | 470 | 175 |     |     |     |
|                               |            | CRS501S/T       | 0.4         | 409 | 470 | 175 |     |     |     |
| With Automatic Float Switch   | CR-D       | CR501DS/T       | 0.15        | 395 | 436 | 171 | 165 | 530 | —   |
|                               |            |                 | 0.25        | 409 | 470 | 202 |     |     |     |
|                               |            |                 | 0.4         | 409 | 470 | 202 |     |     |     |
|                               |            |                 | 0.75        | 409 | 470 | 202 |     |     |     |
|                               |            | CR501D          | 0.75        | 409 | 470 | 202 |     |     |     |
|                               | CRS-D      | CRS321DS        | 0.15        | 395 | 436 | 171 | 165 | 530 | —   |
|                               |            | CRS401DS/T      | 0.25        | 409 | 470 | 202 |     |     |     |
|                               |            | CRS501DS/T      | 0.4         | 409 | 470 | 202 |     |     |     |
|                               |            | CRS501D         | 0.75        | 409 | 470 | 202 |     |     |     |
|                               |            | CRS65D          | 1.5         | 536 | 626 | 203 |     |     |     |
| Automatic Alternate Operation | CR-W       | CR501WS         | 0.15        | 395 | 436 | 171 | 200 | 480 | 610 |
|                               |            |                 | 0.25        | 409 | 470 | 202 |     |     |     |
|                               |            |                 | 0.4         | 409 | 470 | 202 |     |     |     |
|                               |            |                 | 0.75        | 409 | 470 | 202 |     |     |     |
|                               |            | CRS321WS        | 0.15        | 395 | 436 | 171 |     |     |     |
|                               | CRS-W      | CRS401WS/T      | 0.25        | 409 | 470 | 202 | 200 | 480 | 610 |
|                               |            | CRS501WS/T      | 0.4         | 409 | 470 | 202 |     |     |     |
|                               |            | CRS501W         | 0.75        | 409 | 470 | 202 |     |     |     |
|                               |            | CRS65W          | 1.5         | 536 | 626 | 203 |     |     |     |
|                               |            | CRS80W          | 2.2         | 561 | 626 | 203 |     |     |     |
|                               | CRC-W      | CRS50W          | 1.5         | 536 | 626 | 203 | 240 | 630 | 760 |
|                               |            | CRS65W          | 2.2         | 561 | 626 | 203 |     |     |     |

### Flange Connection

|                               | Pump Model | Connection Type | Output (kW) | A   | B   | C   | D   | E   | F |
|-------------------------------|------------|-----------------|-------------|-----|-----|-----|-----|-----|---|
| Non-Automatic Operation       | CR         | CR501S/T        | 0.15        | 380 | 206 | 144 | 150 | 330 | — |
|                               |            |                 | 0.25        | 394 | 240 | 175 |     |     |   |
|                               |            |                 | 0.4         | 398 | 240 | 175 |     |     |   |
|                               |            |                 | 0.75        | 398 | 240 | 175 |     |     |   |
|                               |            | CR501           | 0.75        | 398 | 240 | 175 |     |     |   |
| With Automatic Float Switch   | CRS        | CR65            | 1.5         | 517 | 295 | 203 | 180 | 450 | — |
|                               |            | CR80            | 2.2         | 542 | 295 | 203 |     |     |   |
|                               |            | CRS321S         | 0.15        | 352 | 206 | 144 |     |     |   |
|                               |            | CRS401S/T       | 0.25        | 366 | 240 | 175 |     |     |   |
|                               |            | CRS501S/T       | 0.4         | 379 | 240 | 175 |     |     |   |
| Automatic Alternate Operation | CR-D       | CR501DS/T       | 0.15        | 380 | 206 | 171 | 150 | 510 | — |
|                               |            |                 | 0.25        | 394 | 240 | 202 |     |     |   |
|                               |            |                 | 0.4         | 398 | 240 | 202 |     |     |   |
|                               |            |                 | 0.75        | 398 | 240 | 202 |     |     |   |
|                               |            | CR501D          | 0.75        | 398 | 240 | 202 |     |     |   |
|                               | CRS-D      | CRS321DS        | 0.15        | 352 | 206 | 171 | 125 | 480 | — |
|                               |            | CRS401DS/T      | 0.25        | 366 | 240 | 202 |     |     |   |
|                               |            | CRS501DS/T      | 0.4         | 379 | 240 | 202 |     |     |   |
|                               |            | CRS501D         | 0.75        | 379 | 240 | 202 |     |     |   |
|                               |            | CRS65D          | 1.5         | 485 | 300 | 203 |     |     |   |
|                               | CRC-D      | CRS80D          | 2.2         | 510 | 300 | 203 | 155 | 630 | — |
|                               |            | CRC40DS/T       | 0.4         | 389 | 245 | 195 |     |     |   |
|                               |            | CRC50D          | 0.75        | 408 | 245 | 195 |     |     |   |
|                               |            | CRC50D          | 1.5         | 485 | 300 | 203 |     |     |   |
|                               |            | CRC65D          | 2.2         | 510 | 300 | 203 |     |     |   |



## Special Accessories

**Liquid Level Regulators** - All models are non-mercury structure for earth environment.

### LC "Level Switch"



### MS "Mini Switch"



### FV "Oval Float"



## Features

**LC** Useful for drinking water, waste water and sewage containing the suspended solids. Hardly affected by corrosion or rust even if it is immersed in a corrosive liquid for a long time.

**MS** Useful for waste water and sewage containing a few suspended solids. The MS is available in two types, MS11 (single float) and MS21 (double float).

**FV** Useful for the fresh water as well as waste water not containing suspended solids. A single FV is able to control both the upper and lower liquid levels.

## Specifications

| Model                      |        | LC12                                                                     | MS11, MS21                                | FV11                                  |
|----------------------------|--------|--------------------------------------------------------------------------|-------------------------------------------|---------------------------------------|
| Switch                     |        | Micro Switch                                                             | Lead Switch                               | Lead Switch                           |
| Specific gravity of liquid |        | 0.95~1.15                                                                | 0.95~1.10                                 | 0.95~1.10                             |
| Liquid Temp                |        | 0~60°C                                                                   | 0~40°C                                    | 0~60°C                                |
| Voltage                    |        | AC/DC30V or under                                                        |                                           |                                       |
| Current                    |        | 5A or under                                                              | 0.5A or under                             | 0.6A                                  |
| Cable Length               |        | 6m, 13m, 20m, 30m, 40m, 50m (further cable extension at interval of 10m) |                                           |                                       |
| Cable Type                 |        | 0.75mm <sup>2</sup> ×3 cores, Flat Type                                  | 0.2mm <sup>2</sup> ×2 cores × ϕ 4.7mm     | 0.5mm <sup>2</sup> ×2 cores × ϕ 5.8mm |
| Weight (including cable)   |        | 1.2kg (6m cable)                                                         | 0.6kg (MS11, 6m cable)                    | 1.0kg (6m cable)                      |
| Material                   | Case   | Polypropylene resin                                                      | ABS resin                                 | Polypropylene resin                   |
|                            | Cable  | VCTFK                                                                    | PVC resin (soft type)                     | PVC resin (soft type)                 |
|                            | Others | Chain : SUS304                                                           | Sinker : Cast iron with PVC resin coating | Sinker : Cast iron                    |

Specifications and dimensions are subject to change without notice.

### ShinMaywa Industries, Ltd.

Overseas Operations Department 2-43, Shitte 3-chome, Tsurumi-ku, Yokohama 230-0003, Japan  
Telephone : +81-45-584-1321 Facsimile : +81-45-584-1320  
e-mail : overseas@sb.shinmaywa.co.jp

### ShinMaywa (America), Ltd. ShinMaywa (Malaysia) Sdn. Bhd.

10737 Gateway West, Suite 112  
El Paso, Texas 79935, U.S.A.  
Telephone : +1-915-594-9862  
Facsimile : +1-915-594-9866  
e-mail : saleelpaso@aol.com

Suite 7.3, 7th Floor Menara Alk Hua, Changkat  
Raja Chulan, 50200 Kuala Lumpur, Malaysia  
Telephone : +60-3-2026-2388  
Facsimile : +60-3-2026-2399  
e-mail : smmsb@tm.net.my

### ShinMaywa (Asia) Pte. Ltd.

51 Goldhill Plaza #14-01  
Singapore 308900  
Telephone : +65-6224-0728  
Facsimile : +65-6224-9678  
e-mail : Asia.ad@shinmaywa.com.sg

<http://www.shinmaywa.co.jp>



ShinMaywa ONO PLANT

ISO 9001 (No.956445)/ISO 14001 (No.771888)

