# LED Pool Light - SPL-DVS Series

## Function

DVS Series generates strong levels of lumen output for fully lit pools. The LED lamps come in single or multicolour (RGB) LED providing a range of colours and effects which can create a special ambience to the pool depending on the users mood or special occasions. The LED lamp is fully sealed and IP68 rated so water cannot penetrate or damage the fixture. Fitted with the Quick Connect cabling system that is reliable and easy to mount or remove for maintenance without the need to drain the pool or cut cables.

RGB LED lights have an embedded 11 fixed colour programs. These lights can be controlled using the Link Driver (RM-200) or by simply toggling the lamps off and on in a specific sequence. Available in 50, 100 and 170mm diameter lamp sizes.

## Specifications

**Power**
8W - 40W

**Voltage**
12V AC

**Colours**
RGB / White

**Beam Angle:**
116 °

**Control**
On/off

**Cable**
2 C - 1 mm²

**Standard Cable Length**
2 meters

**Temperature range:**
+40° water temperature

**Lamp Life:**
25,000 Hrs

**Protection Rating:**
IP 68, IEC class III

Stainless steel 316 face plate
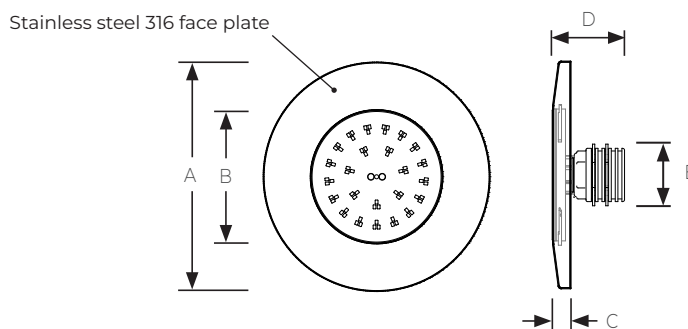
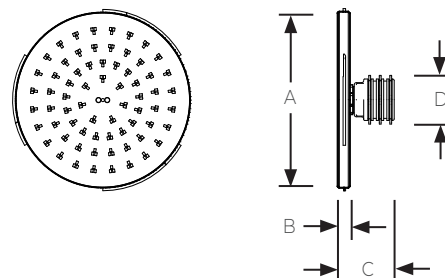## LED Pool Lamp with Face plate

| Model No. | Description | Colour | Power (W) | Luminous flux (lm) | A (mm) | B (mm) | C (mm) | D (mm) | E (BSP) |
|---|---|---|---|---|---|---|---|---|---|
| SPL-DVS-050-RGB | Ø50 DVS - RGB Pool light with Face plate | RGB | 8 | 450 | 100 | 50 | 10 | 55 | 1.5 |
| SPL-DVS-050-WH | Ø50 DVS - White Pool lightwith Face plate | White (5000 K) | 10 | 700 | 100 | 50 | 10 | 55 | 1.5 |
| SPL-DVS-050-TW | Ø50 DVS - Tunable White Pool light with Face plate | Tunable White (3000 - 6500K + blue) | 8 | 550 | 100 | 50 | 10 | 55 | 1.5 |
| SPL-DVS-100-RGB | Ø100 DVS - RGB Pool lightwith Face plate | RGB | 20 | 1550 | 170 | 100 | 10 | 55 | 1.5 |
| SPL-DVS-100-WH | Ø100 DVS - White Pool light with Face plate | White (5000 K) | 26 | 2300 | 170 | 100 | 10 | 55 | 1.5 |
| SPL-DVS-100-TW | Ø100 DVS - Tunable White Pool light with Face plate | Tunable White (3000 - 6500K + blue) | 20 | 1500 | 170 | 100 | 10 | 55 | 1.5 |
| SPL-DVS-170-RGB | Ø170 DVS - RGB Pool light with Face plate | RGB | 32 | 2450 | 270 | 170 | 10 | 55 | 1.5 |
| SPL-DVS-170-WH | Ø170 DVS - White Pool light with Face plate | White (5000 K) | 40 | 3950 | 270 | 170 | 10 | 55 | 1.5 |
| SPL-DVS-170-TW | Ø170 DVS - Tunable White Pool light with Face plate | Tunable White (3000 - 6500K + blue) | 32 | 2400 | 270 | 170 | 10 | 55 | 1.5 |

| Underwater LED Swimming Pool Light | DVS Series | Model No. SPL-DVS | Rev. 2 | |
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### LED Pool Lamp

| Model No. | Description | Colour | Power (W) | Luminous flux (lm) | A (mm) | B (mm) | C (mm) | D (BSP) |
|---|---|---|---|---|---|---|---|---|
| DVS-050-RGB | Ø50 DVS - RGB Pool lamp | RGB | 8 | 450 | 50 | 10 | 55 | 1.5 |
| DVS-050-WH | Ø50 DVS - White Pool lamp | White (5000 K) | 10 | 700 | 50 | 10 | 55 | 1.5 |
| DVS-050-TW | Ø50 DVS - Tunable White Pool lamp | Tunable White (3000 - 6500K + blue) | 8 | 550 | 50 | 10 | 55 | 1.5 |
| DVS-100-RGB | Ø100 DVS - RGB Pool lamp | RGB | 20 | 1550 | 100 | 10 | 55 | 1.5 |
| DVS-100-WH | Ø100 DVS - White Pool lamp | White (5000 K) | 26 | 2300 | 100 | 10 | 55 | 1.5 |
| DVS-100-TW | Ø100 DVS - Tunable White Pool lamp | Tunable White (3000 - 6500K + blue) | 20 | 1500 | 100 | 10 | 55 | 1.5 |
| DVS-170-RGB | Ø170 DVS - RGB Pool lamp | RGB | 32 | 2450 | 170 | 10 | 55 | 1.5 |
| DVS-170-WH | Ø170 DVS - White Pool lamp | White (5000 K) | 40 | 3950 | 170 | 10 | 55 | 1.5 |
| DVS-170-TW | Ø170 DVS - Tunable White Pool lamp | Tunable White (3000 - 6500K + blue) | 32 | 2400 | 170 | 10 | 55 | 1.5 |

**Precautions:**
* DVS series lamps must be completely submerged into water during operation.
* Fixing the lamps with adhesives or silicone kit into a niche is not allowed.
* For operation only with safety isolation transformer

### Illumination per m²:
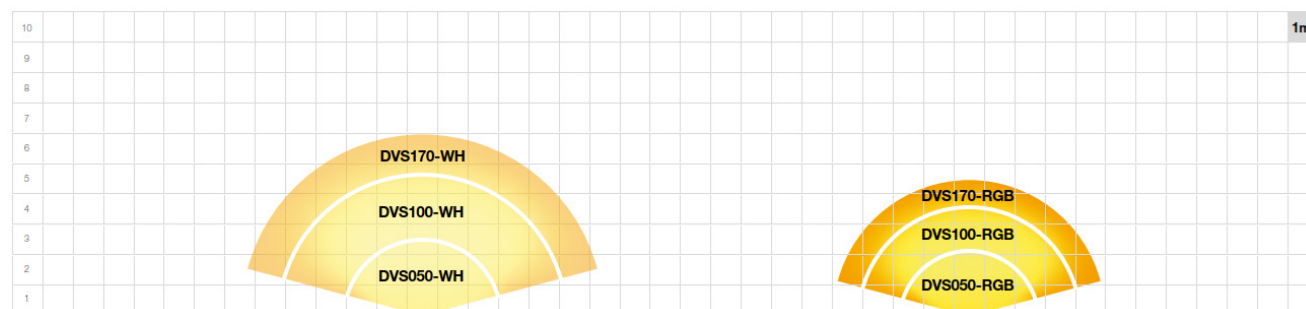


* Values in graph refer to swimming pools with white or light-coloured walls that require 100 - 150 lm/m².
* Increase the light (lumen) by 50% for medium colours.
* Dark walls are difficult to illuminate and need up to 250% extra light.

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# LED Pool Light - SPL-DVS Series

## Connection Diagram
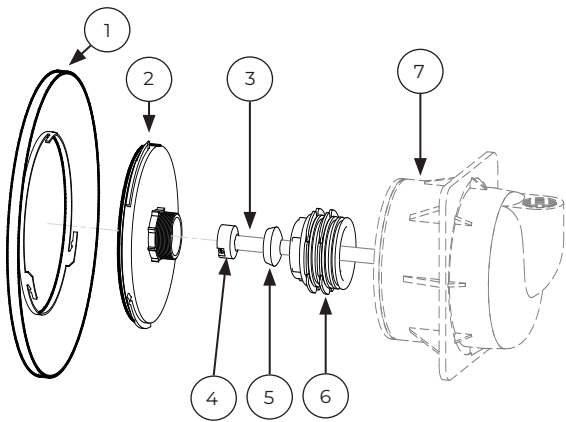


### Lamp Assembly

| # | Part Name |
|---|-----------|
| 1 | Ø100 SS faceplate (RO type) |
| 2 | DVS-100-RGB |

### Quick Connect cable system

| # | Part Name |
|---|-----------|
| 3 | 2 C - 1mm² Underwater Cable ( 12V AC ) |
| 4 | Quick connector |
| 5 | Silicone Gasket |
| 6 | Fix Nut |

### Niche Assembly

| # | Part Name |
|---|-----------|
| 7 | Niche ( sold separately ) |

### Typical wiring installation
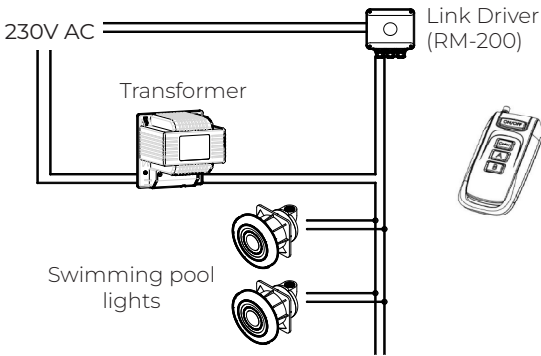


### Typical Swimming Pool Installation
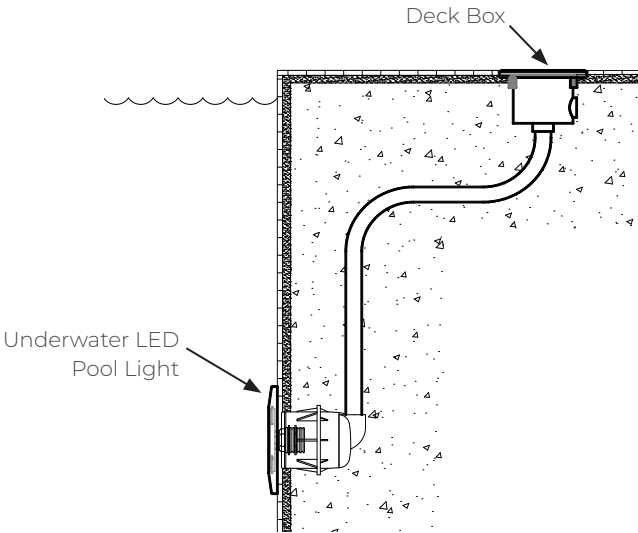


### Synchronizing & color changing ( olny for RGB lamps )

#### Manual synchronization

1. Turn the lamps ON and make sure all lights up.
2. Turn them OFF for MINIMUM 20 seconds (max 60 sec)
3. Switch ON and Switch OFF (max 3 sec ON and 3 sec OFF)
4. Switch ON and Switch OFF (max 3 sec ON and 3 sec OFF)
5. Switch ON
6. The lamps should now all be on colour program 6

| Underwater LED Swimming Pool Light | DVS Series | Model No. SPL-DVS | Rev. 2 | |
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## Changing colors

Turn the lamps OFF and quickly back ON, The lamp will jump to the next colour program.

## Memorizing the actual color

1. Turn the lamps OFF for MINIMUM 20 seconds
2. The chosen colour has now been memorized

### 11 Colour programs ( only for RGB Lamps )

| Program # | Program Name | Colour |
|---|---|---|
| 1 | CANDLE LIGHT | 2000K very warm white |
| 2 | WARM WHITE | 3000K warm white |
| 3 | NEUTRAL WHITE | 5000K neutral white |
| 4 | COLD WHITE | 9500K cold white |
| 5 | CARIBEAN BLUE | cyan |
| 6 | BLUE | blue |
| 7 | GREEN | green |
| 8 | RED | red |
| 9 | PURPLE | purple |
| 10 | YELLOW DYNAMIC | slow animation yellow |
| 11 | BLUE DYNAMIC | fast animation blue |

### 6 White tints ( for TW Lamps )

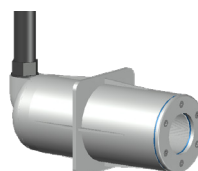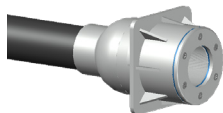| Program # | White tints |
|---|---|
| 1 | 2000K |
| 2 | 3000K |
| 3 | 5000K |
| 4 | 9500K |
| 5 | 13500K |
| 6 | 17500K |

## Accessories



**Link Driver**
RM-200
* for all DVS Series
Swimming pool lights


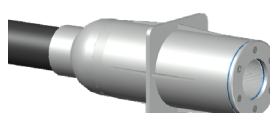
**PZA-WCS-NG + PZA-FLEX-S**
* Niche for SLP-DVS
Built-in length: 145 mm
Hole size: 1.5" BSP
Conduit connection: 3/4" BSP
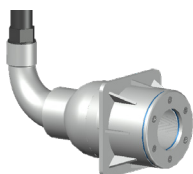


**PZA-WC-NG + PZA-FLEX-S**
* Niche for SLP-DVS
Built-in length: 262 mm
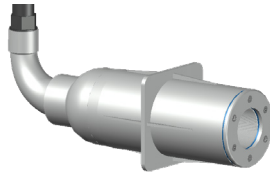Hole size: 1.5" BSP
Conduit connection: 3/4" BSP



**PZA-WCS-NG**
* Niche for SLP-DVS
Built-in length: 152 mm
Hole size: 1.5" BSP
Conduit connection: 50mm Pipe



**PZA-WC-NG**
* Niche for SLP-DVS
Built-in length: 269 mm
Hole size: 1.5" BSP
Conduit connection: 50mm Pipe



**PZA-WCS-NG + PZA-FLEX-NG**
* Niche for SLP-DVS
Built-in length: 225 mm
Hole size: 1.5" BSP
Conduit connection: 3/4" BSP



**PZA-WC-NG + PZA-FLEX-NG**
* Niche for SLP-DVS
Built-in length: 345 mm
Hole size: 1.5" BSP
Conduit connection: 3/4" BSP

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