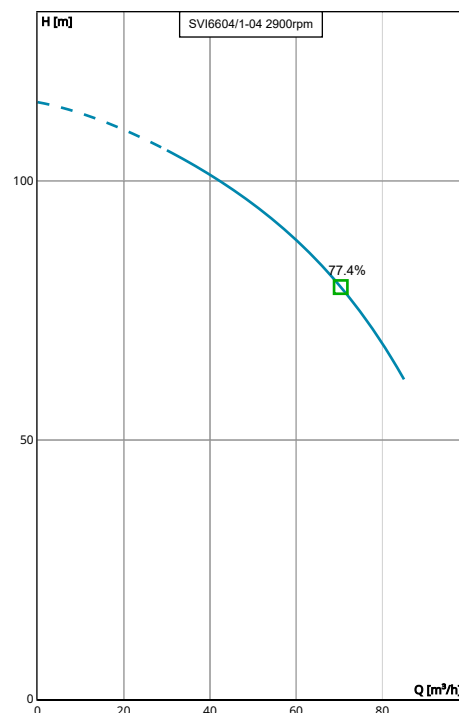


## SVI6604/1-04S220T | Configuration Summary



The e-SVI is an efficient, reliable, high-performance pump, comprised of an energy saving, vertical multistage pump coupled to a IEC high efficient motor. Plus, an immersible hydraulic end provides an ideal solution for top mount applications.



Performance according to ISO 9906:2012

### PUMP

|                 |                        |
|-----------------|------------------------|
| Installation    | Number Of Impellers    |
| Coupled         | 4                      |
| Immersion Depth | Empty Stages Added     |
| 45.21 cm        | 0                      |
| Minimum Depth   | Total Number Of Stages |
| 45.21 cm        | 4                      |
| Maximum Depth   | Pump Size              |
| 108.20 cm       | SVI66                  |

### MATERIALS

Construction  
Stainless Steel (AISI 304)

### SEAL

|                  |                          |
|------------------|--------------------------|
| Type of Seal     | Rotating Face            |
| Mechanical Seals | Silicon Carbide          |
| Name             | Stationary Face          |
| Q1BVG            | Resin Impregnated Carbon |
|                  | Elastomers               |
|                  | FKM (FPM)                |
|                  | Springs                  |
|                  | AISI 316                 |
|                  | Metal Components         |
|                  | AISI 316                 |
|                  | Min Temperature          |
|                  | -10.0 °C                 |
|                  | Max Temperature          |
|                  | 90.0 °C                  |

### STANDARD OPTIONS

|            |                     |
|------------|---------------------|
| PTC Sensor | UL Approved (cURus) |
|------------|---------------------|

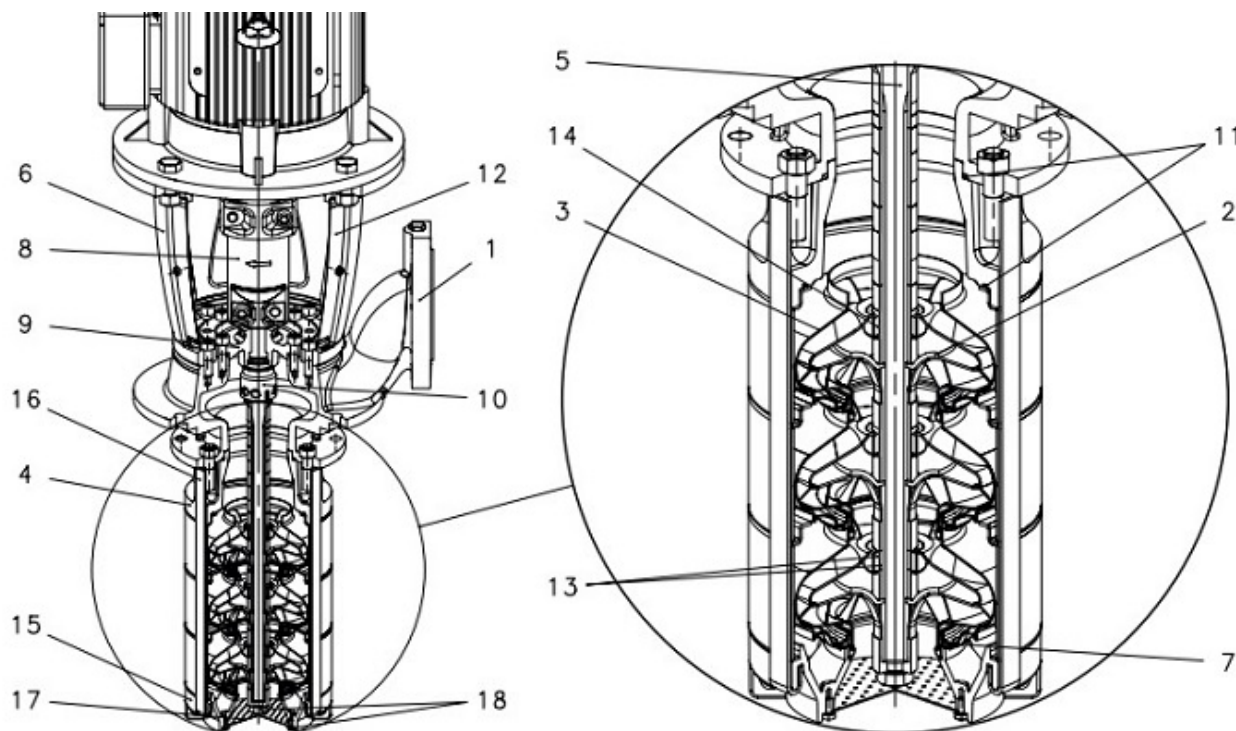
### MOTOR

|                |                   |
|----------------|-------------------|
| Vendor         | Power             |
| Lowara PLM     | 22 kW             |
| Frequency (Hz) | Phase (~)         |
| 50             | 3                 |
| Poles          | Voltage           |
| 2              | 380-415/660-690 V |
| Efficiency     |                   |
| IE3            |                   |

No

No

## SVI6604/1-04S220T | Product Details



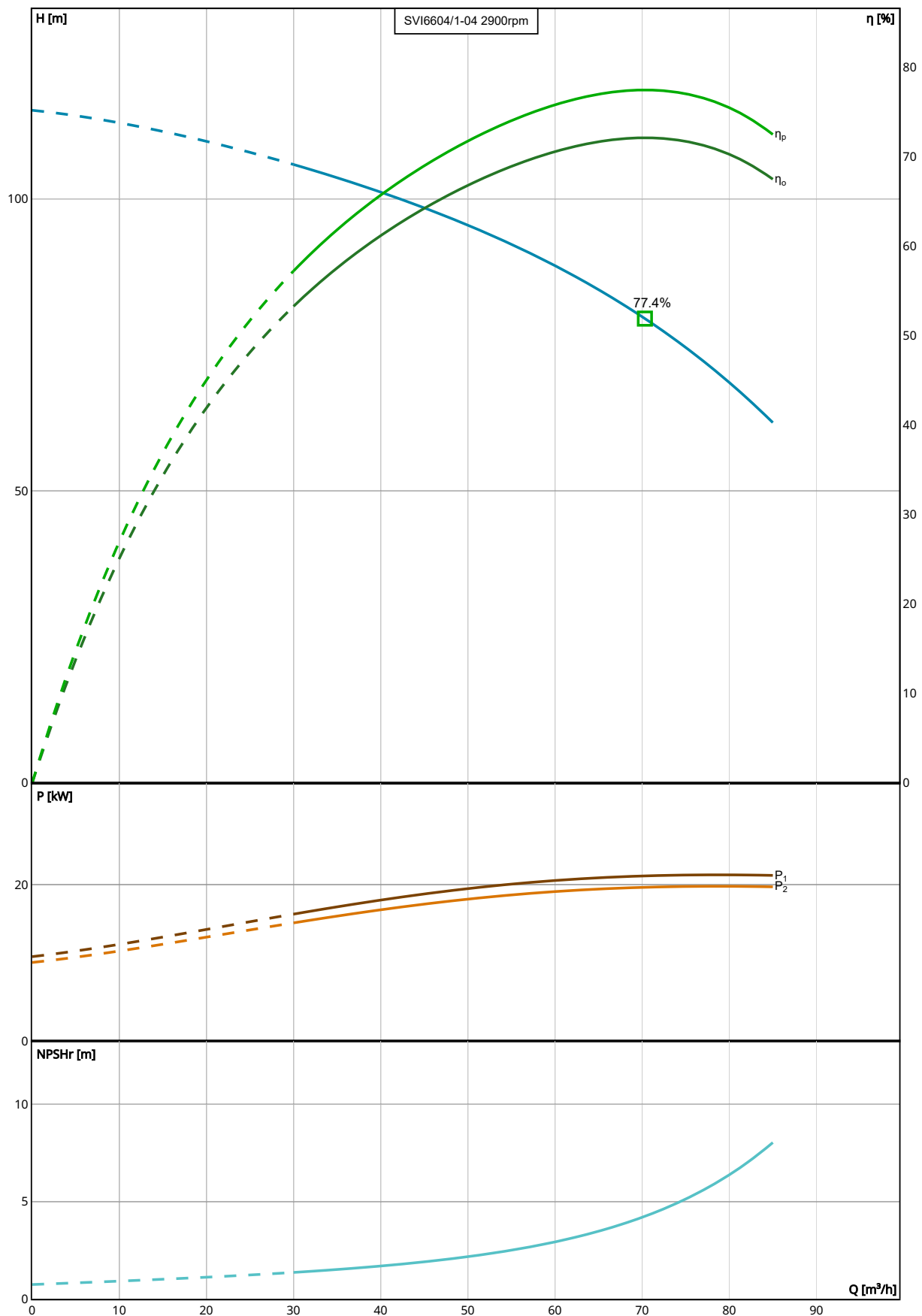
### Construction Materials

|                                                    |                                                       |                                                               |                                                                         |
|----------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Upper head (1)</b><br>Cast iron / ASTM Class 35 | <b>Shaft (5)</b><br>Stainless Steel / AISI 431        | <b>Seal housing (9)</b><br>Cast iron / ASTM Class 35          | <b>Shaft sleeve and bushing (13)</b><br>Tungsten carbide                |
| <b>Impeller (2)</b><br>Stainless Steel / AISI 316L | <b>Motor adapter (6)</b><br>Cast iron / ASTM Class 25 | <b>Mechanical seal (10)</b><br>See Seal Section               | <b>Bushing for diffuser (14)</b><br>Carbon                              |
| <b>Diffuser (3)</b><br>Stainless Steel / AISI 304  | <b>Wear ring (7)</b><br>Technopolymer PPS             | <b>Elastomers (11)</b><br>See Seal Section                    | <b>Suction base (15)</b><br>Stainless Steel / ASTM CF8M (AISI 316 cast) |
| <b>Adapter (4)</b><br>Cast iron / ASTM Class 35    | <b>Coupling (8)</b><br>Cast iron / ASTM Class 25      | <b>Coupling protection (12)</b><br>Stainless Steel / AISI 304 | <b>Tie rods (16)</b><br>Stainless Steel / AISI 304                      |
| <b>Strainer (17)</b><br>Stainless Steel / AISI 316 |                                                       |                                                               |                                                                         |
| <b>Screws (18)</b><br>Stainless Steel / AISI 316   |                                                       |                                                               |                                                                         |

### Motor

|                                        |                                     |                                     |                            |
|----------------------------------------|-------------------------------------|-------------------------------------|----------------------------|
| <b>Motor Name</b><br>PLM 180R B5 22 kW | <b>Phase</b><br>3                   | <b>IE Class</b><br>IE3              | <b>Frame Size</b><br>180 M |
| <b>Design</b><br>IM B5                 | <b>Rated power</b><br>22 kW         | <b>Enclosure</b><br>IP 55           | <b>ICL</b><br>F            |
| <b>Standard</b><br>IEC                 | <b>Service Factor</b><br>1          | <b>Efficiency (%)</b><br>93.1       | <b>Motor Vendor</b><br>PLM |
| <b>Shaft Diameter</b><br>48 mm         | <b>Voltage</b><br>380-415/660-690 V | <b>cos phi</b><br>0.85              | <b>Weight</b><br>121.2 kg  |
| <b>L Shaft</b><br>110 mm               | <b>Speed</b><br>2950.0 rpm          | <b>Rated Current</b><br>42.2-23.3 A |                            |

## SVI6604/1-04S220T | Hydraulic Data & Performance Curve



Performance according to ISO 9906:2012

### Selection

|                         |                 |
|-------------------------|-----------------|
| Series                  | Standby Pumps   |
| e-SVI                   | No Standby Pump |
| Name                    |                 |
| SVI6604/1-04 2900rpm    |                 |
| Stages                  |                 |
| 4                       |                 |
| Frequency               |                 |
| 50 Hz                   |                 |
| Acceptance Grade        |                 |
| Manufacturer's Standard |                 |
| System Type             |                 |
| Single Pump             |                 |
| Operating Pumps         |                 |
| 1                       |                 |

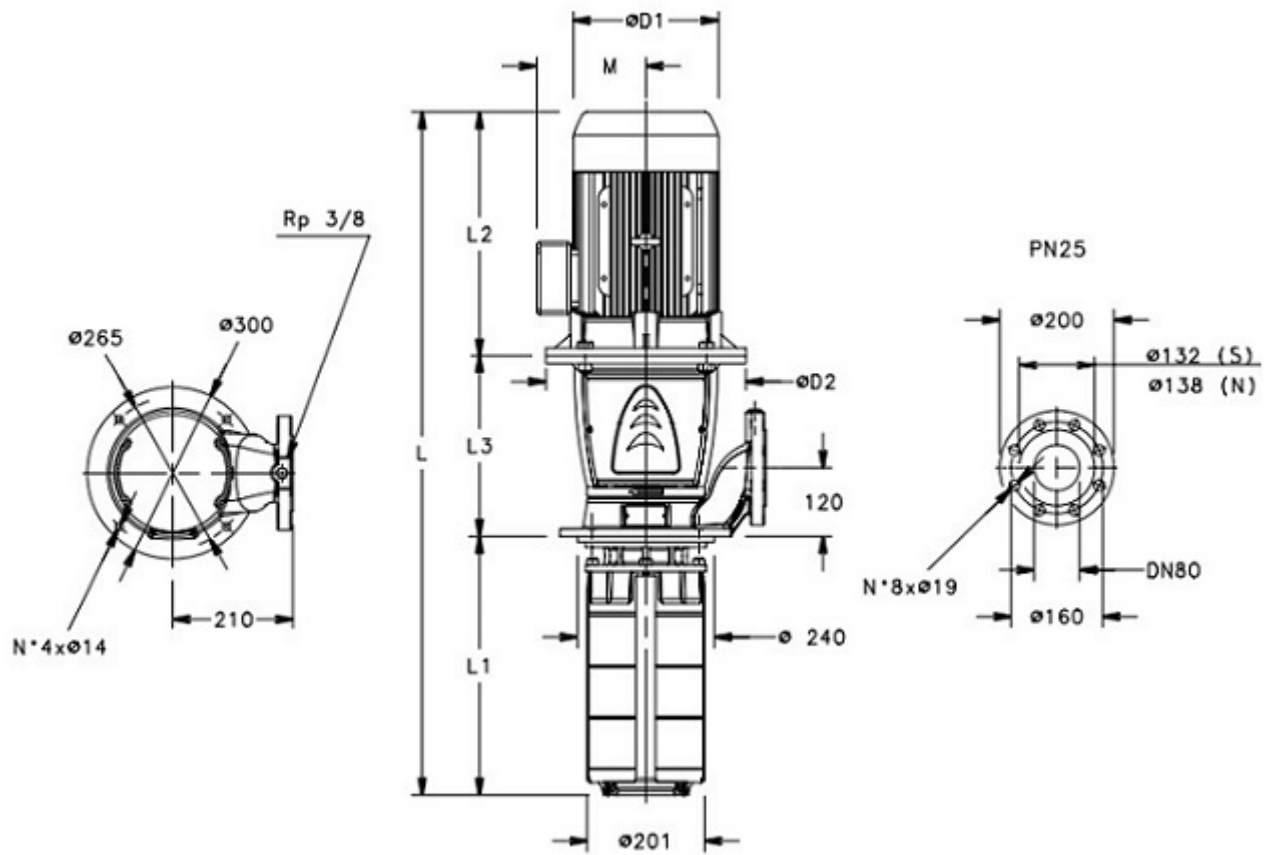
### Fluid and Operating Conditions

|                   |                         |
|-------------------|-------------------------|
| Fluid Type        | Density                 |
| Water             | 1,000 kg/m <sup>3</sup> |
| Fluid Temperature | Dynamic Viscosity       |
| 4 °C              | 0.002 Pa·s              |
| Specific Gravity  | Fluid Vapor Pressure    |
| 1                 | 8.14 mbar               |
|                   | Atmospheric Pressure    |
|                   | 1,013.53 mbar           |
|                   | Elevation               |
|                   | 0 m                     |
|                   | Ambient Temperature     |
|                   | 20 °C                   |
|                   | NPSH Available          |
|                   | 10.27 m                 |
|                   | Submergence             |
|                   | 0 m                     |

### Design Curve

|                      |                         |
|----------------------|-------------------------|
| Rated Speed          | BEP                     |
| 2,900 RPM            | 77.45 %                 |
| Min Flow             | BEP Flow                |
| 30 m <sup>3</sup> /h | 70.32 m <sup>3</sup> /h |
| Max Flow             | BEP Head                |
| 85 m <sup>3</sup> /h | 79.51 m                 |
| H@QMin               | Max Operating Pressure  |
| 105.89 m             | 11,278.44 mbar          |
| H@QMax               | Max P2                  |
| 61.71 m              | 19.78 kW                |

## SVI6604/1-04S220T | Dimensional Data & Drawing



Drawing is preliminary and is subject to change.

### Dimensions

|         |                    |              |
|---------|--------------------|--------------|
| D1      | L2                 | Total Weight |
| 313 mm  | 494 mm             | 190 kg       |
| D2      | L3                 |              |
| 350 mm  | 317 mm             |              |
| L       | M                  |              |
| 1353 mm | 240 mm             |              |
| L1      | Weight (Pump Only) |              |
| 542 mm  | 69 kg              |              |