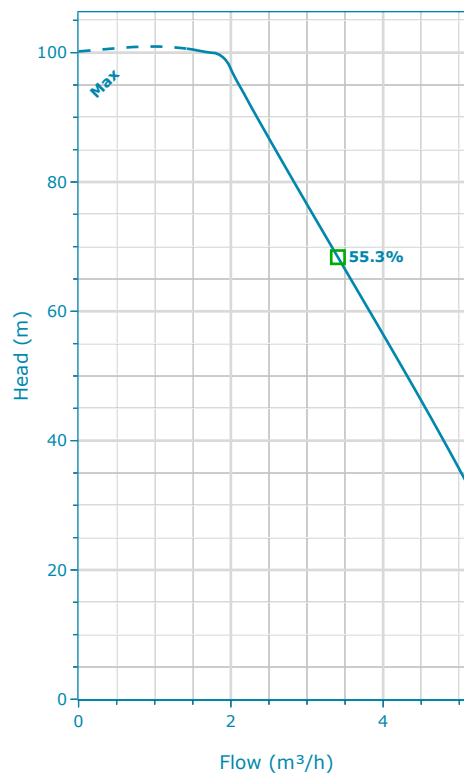


## 3SVE09F011POT/5 | Configuration Summary



The SVE pump is a non-self priming vertical multistage pump coupled with eSM drive. The pump casing is available with different configurations and connection types.



### PUMP

Installation  
Complete Pump

### MATERIALS

|                            |                            |
|----------------------------|----------------------------|
| Pump Body Material         | Impeller Material          |
| Stainless Steel (AISI 304) | Stainless Steel (AISI 304) |

### SEAL

|                  |                          |
|------------------|--------------------------|
| Type of Seal     | Rotating Face            |
| Mechanical Seals | Silicon Carbide          |
| Name             | Stationary Face          |
| Q1BEGG           | Resin Impregnated Carbon |
|                  | Elastomers               |
|                  | EPDM                     |
|                  | Springs                  |
|                  | AISI 316                 |
|                  | Metal Components         |
|                  | AISI 316                 |
|                  | Min Temperature          |
|                  | -30.0 °C                 |
|                  | Max Temperature          |
|                  | 120.0 °C                 |

### MOTOR

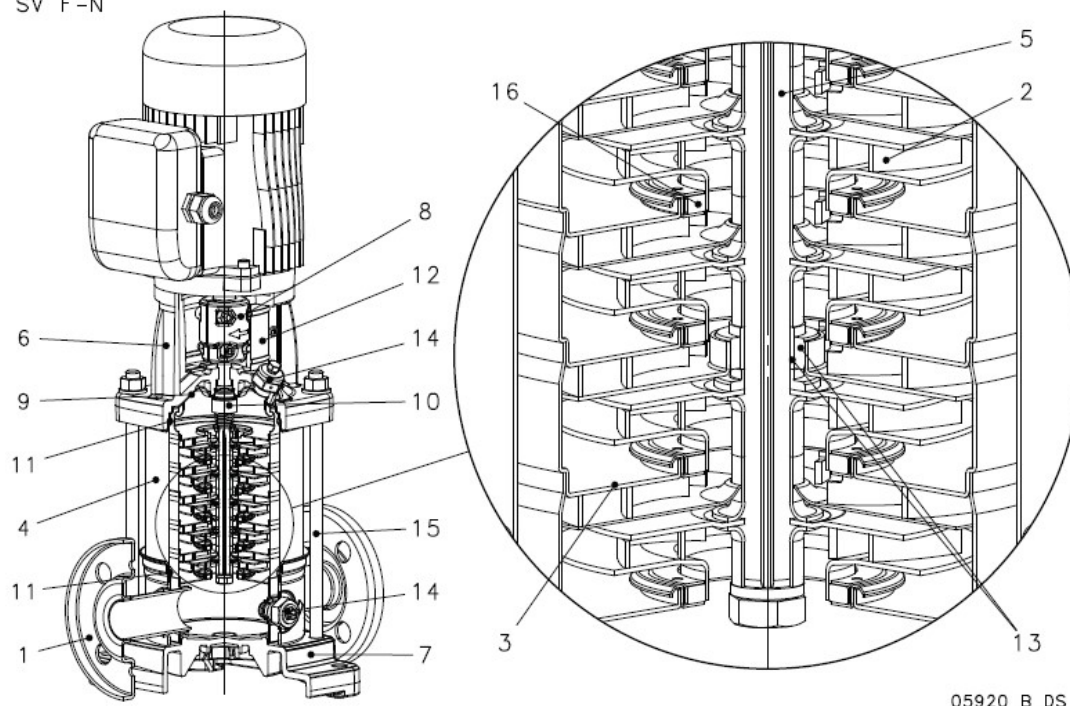
|       |                   |
|-------|-------------------|
| Poles | Power             |
| 2     | 1.1 kW            |
|       | Phase (~)         |
|       | 3                 |
|       | Voltage           |
|       | 208-240/380-460 V |

### FLANGE

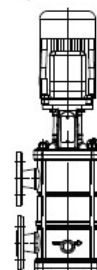
Flange  
[F] = Round Flanges (AISI 304)

## 3SVE09F011P0T/5 | Product Details

SV F-N



SV R



SV T



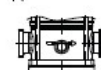
SV V-P



SV C



SV K



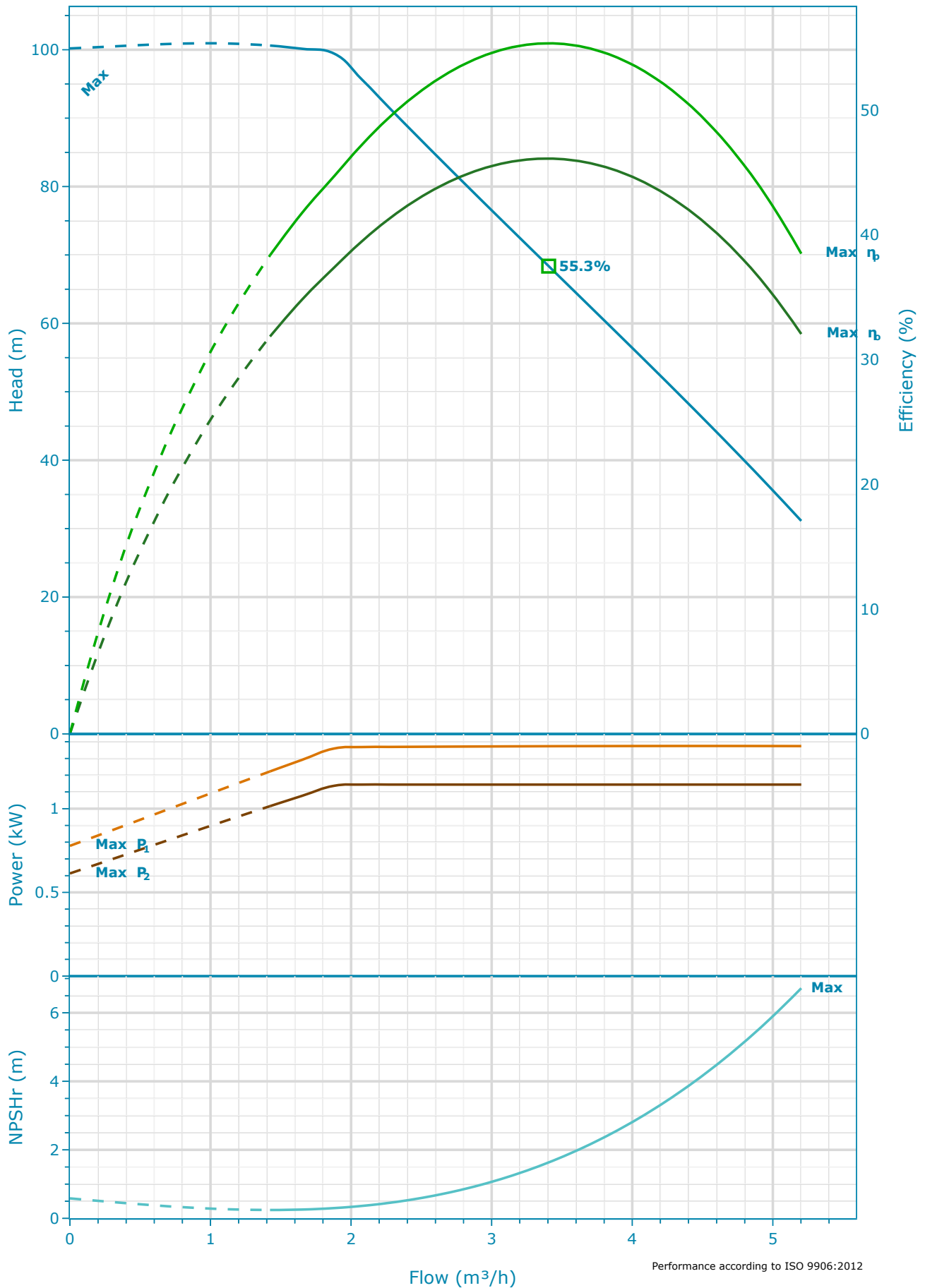
### Construction Materials

|                                                       |                                                 |                                                               |                                                              |
|-------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|
| <b>Pump body (1)</b><br>Stainless steel / AISI 304    | <b>Shaft (5)</b><br>Stainless steel / AISI 304  | <b>Seal housing (9)</b><br>Stainless steel / AISI 304         | <b>Shaft sleeve and bushing (13)</b><br>Tungsten carbide     |
| <b>Impeller (2)</b><br>Stainless steel / AISI 304     | <b>Adapter (6)</b><br>Cast Iron / ASTM Class 35 | <b>Mechanical seal (10)</b><br>See Seal section               | <b>Fill / Drain plugs (14)</b><br>Stainless steel / AISI 304 |
| <b>Diffuser (3)</b><br>Stainless steel / AISI 304     | <b>Base (7)</b><br>Aluminium                    | <b>Elastomers (11)</b><br>See Seal section                    | <b>Tie rods (15)</b><br>Galvanized steel                     |
| <b>Outer sleeve (4)</b><br>Stainless steel / AISI 304 | <b>Coupling (8)</b><br>Aluminium                | <b>Coupling protection (12)</b><br>Stainless steel / AISI 304 | <b>Wear ring (16)</b><br>Technopolymer PPS                   |

### Motor

|                                     |                                               |                           |                        |
|-------------------------------------|-----------------------------------------------|---------------------------|------------------------|
| <b>Motor Name</b><br>ESM90R/311 SVE | <b>Phase</b><br>3                             | <b>Enclosure</b><br>IP 55 | <b>ICL</b><br>F        |
| <b>Design</b><br>e-SM Motor         | <b>Rated power</b><br>1.1 kW                  | <b>Frame Size</b><br>90R  | <b>Standard</b><br>IEC |
| <b>Service Factor</b><br>1          | <b>Rated Current</b><br>5.15-4.69/3.45-3.06 A |                           |                        |
| <b>Voltage</b><br>208-240/380-460 V | <b>Motor Vendor</b><br>Lowara                 |                           |                        |
| <b>Speed</b><br>3600.0 rpm          |                                               |                           |                        |

### 3SVE09F011P0T/5 | Hydraulic Data & Performance Curve



### Selection

|                         |                 |
|-------------------------|-----------------|
| Series                  | Standby Pumps   |
| e-SVE                   | No Standby Pump |
| Name                    |                 |
| 3SVE09..011             |                 |
| Stages                  |                 |
| 9                       |                 |
| Frequency               |                 |
| 50 Hz                   |                 |
| Acceptance Grade        |                 |
| Manufacturer's Standard |                 |
| System Type             |                 |
| Single Pump             |                 |
| Operating Pumps         |                 |
| 1                       |                 |

### Fluid and Operating Conditions

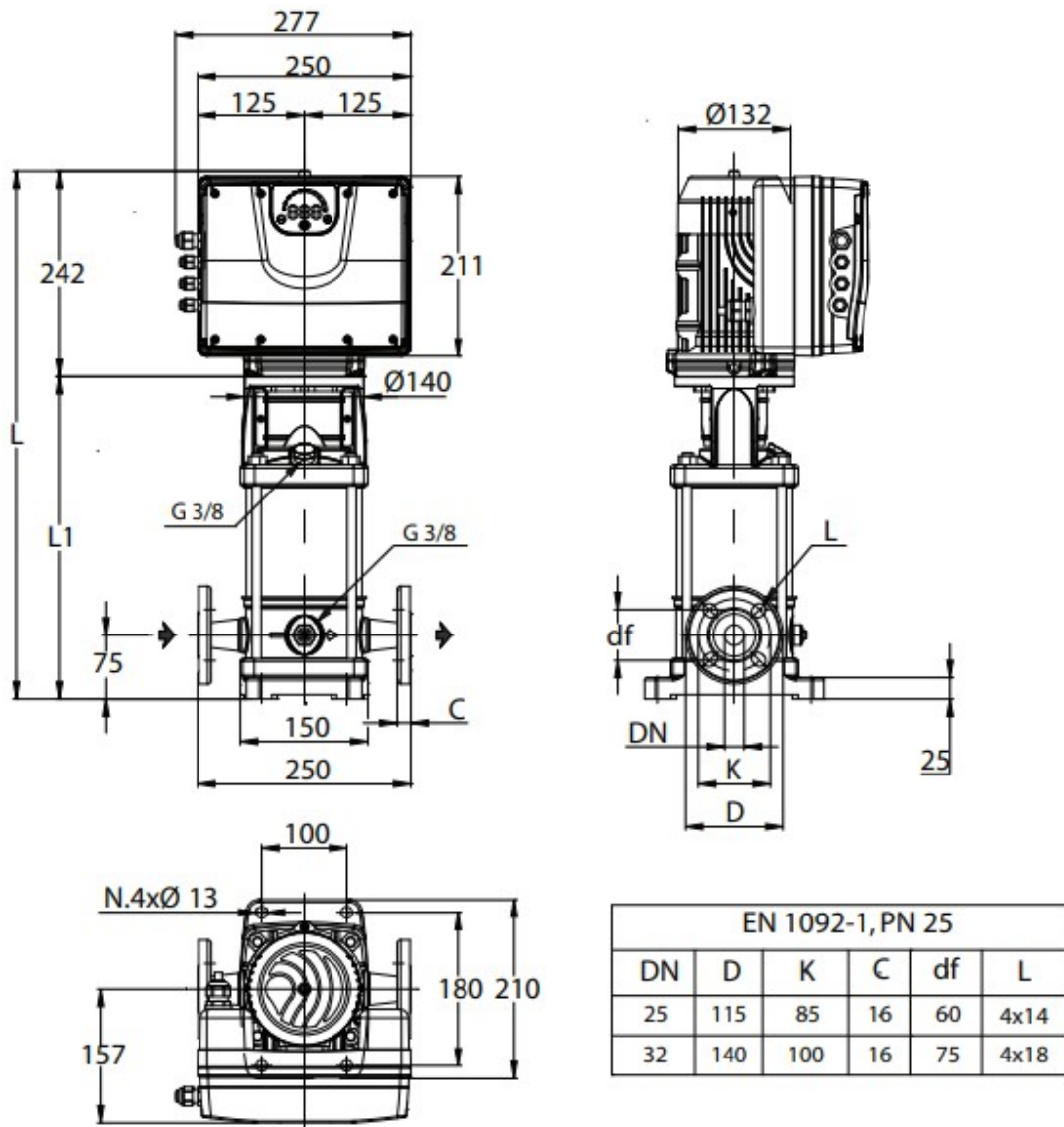
|                   |                         |
|-------------------|-------------------------|
| Fluid Type        | Density                 |
| Water             | 1,000 kg/m <sup>3</sup> |
| Fluid Temperature | Dynamic Viscosity       |
| 4 °C              | 0.002 Pa·s              |
| Specific Gravity  | 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                    |
| 3,600 RPM              | 55.35 %                |
| Min Flow               | BEP Flow               |
| 1.42 m <sup>3</sup> /h | 3.41 m <sup>3</sup> /h |
| Max Flow               | BEP Head               |
| 5.2 m <sup>3</sup> /h  | 68.37 m                |
| H@QMin                 | Max Operating Pressure |
| 100.62 m               | 9,884.33 mbar          |
| H@QMax                 | Max P2                 |
| 31.13 m                | 1.14 kW                |

## 3SVE09F011P0T/5 | Dimensional Data & Drawing

1-3-5SVE (F-N)



Drawing is preliminary and is subject to change.

### Dimensions

|           |               |
|-----------|---------------|
| <b>D1</b> | Weight (Pump) |
| 4 x 14    | 12 kg         |
| <b>L</b>  | Total Weight  |
| 660 mm    | 26.5 kg       |
| <b>L1</b> |               |
| 418 mm    |               |
| <b>DN</b> |               |
| 25 mm     |               |