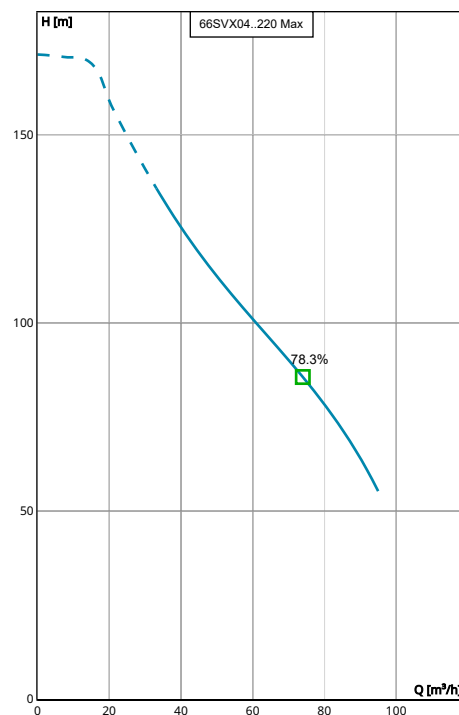


## 66SVX04G220PT04QBE | Configuration Summary



Take the efficiency and low lifetime costs of e-SV multistage pumps to new levels with hydrovar® X – first-class pump management that optimises connectivity, sustainability and performance. Hydrovar® X brings the best energy efficiency performances with its frequency converter coupled with the ultimate synchronous motor, manufactured by Xylem integrating decades of expertise and know-how in pumping solutions.



Performance according to ISO 9906:2012

### PUMP

|               |           |
|---------------|-----------|
| Installation  | Pump Size |
| Complete Pump | 66SV      |
| Hydrovar Name |           |
| hydrovar X+   |           |

### MATERIALS

|                    |                             |
|--------------------|-----------------------------|
| Pump Body Material | Impeller Material           |
| Cast Iron          | Stainless Steel (AISI 316L) |

### 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                 |

### STANDARD OPTIONS

|                       |
|-----------------------|
| Special Configuration |
| Please Select         |

### MOTOR

|       |           |
|-------|-----------|
| Poles | Power     |
| 2     | 22 kW     |
|       | Phase (~) |
|       | 3         |
|       | Voltage   |
|       | 380-480 V |

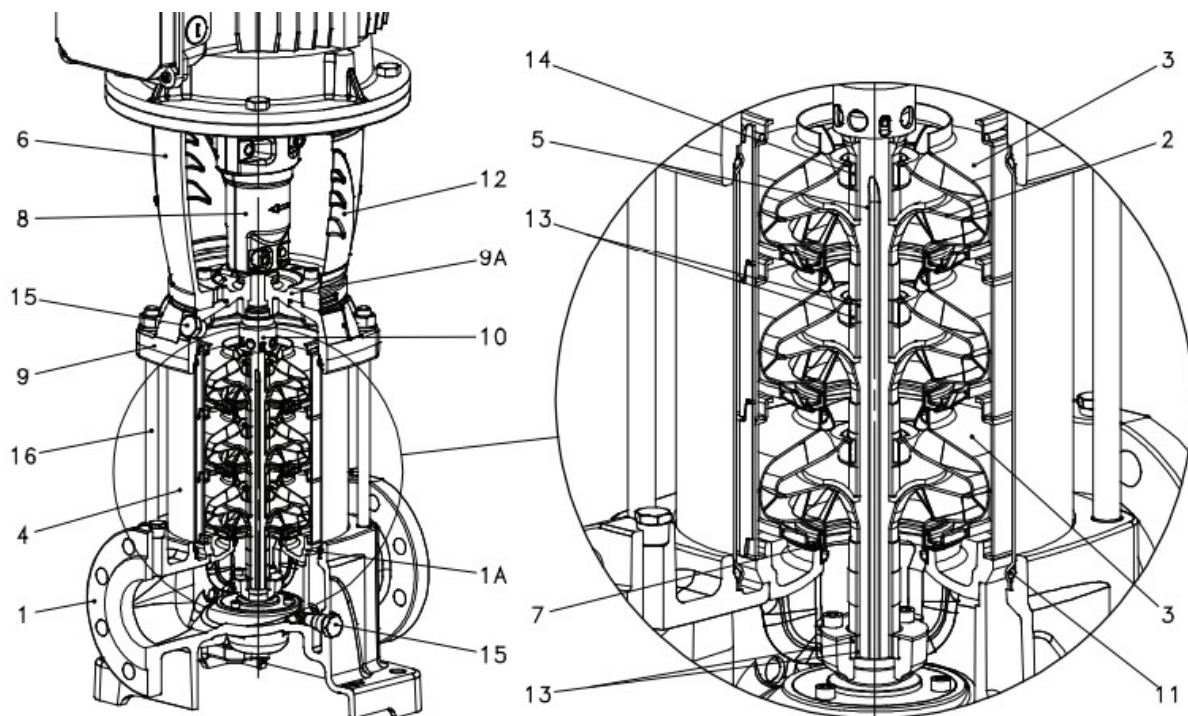
### FLANGE

|                                          |
|------------------------------------------|
| Flange                                   |
| [G] = Round Flanges (AISI 304/Cast Iron) |

### VFD

|       |                |
|-------|----------------|
| Phase | Supply Voltage |
| 3     | 380-480 V      |

## 66SVX04G220PT04QBE | Product Details



05104\_A\_DS

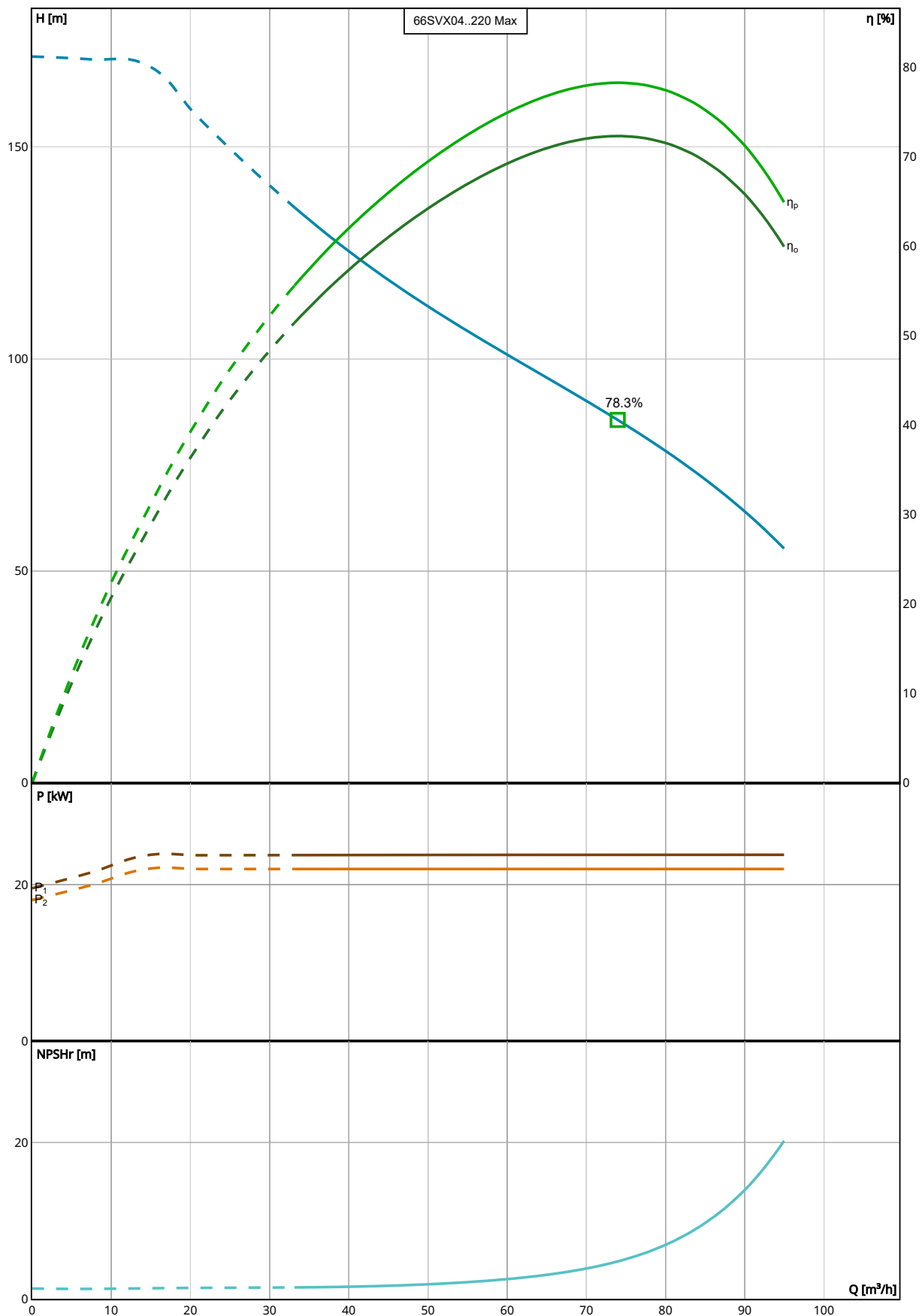
### Construction Materials

|                                                              |                                                       |                                                       |                                                               |
|--------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|
| <b>Pump body (1)</b><br>Cast iron / ASTM Class 35            | <b>Outer sleeve (4)</b><br>Stainless steel / AISI 304 | <b>Coupling (8)</b><br>Cast Iron / ASTM Class 25      | <b>Elastomers (11)</b><br>See Seal section                    |
| <b>Lower support (1A)</b><br>Cast iron / ASTM Class 35       | <b>Shaft (5)</b><br>Stainless steel / AISI 431        | <b>Upper head (9)</b><br>Cast iron / ASTM Class 35    | <b>Coupling protection (12)</b><br>Stainless steel / AISI 304 |
| <b>Impeller (2)</b><br>Stainless steel / AISI 316L           | <b>Adapter (6)</b><br>Cast Iron / ASTM Class 25       | <b>Seal housing (9A)</b><br>Cast iron / ASTM Class 35 | <b>Shaft sleeve and bushing (13)</b><br>Tungsten carbide      |
| <b>Diffuser (3)</b><br>Stainless steel / AISI 304            | <b>Wear ring (7)</b><br>Technopolymer PPS             | <b>Mechanical seal (10)</b><br>See Seal section       | <b>Bushing for diffuser (14)</b><br>Carbon                    |
| <b>Fill / Drain plugs (15)</b><br>Stainless steel / AISI 316 |                                                       |                                                       |                                                               |
| <b>Tie rods (16)</b><br>Galvanized steel                     |                                                       |                                                       |                                                               |

### Motor

|                                        |                              |                           |                        |
|----------------------------------------|------------------------------|---------------------------|------------------------|
| <b>Motor Name</b><br>EXM180B5SV/4.220D | <b>Rated power</b><br>22 kW  | <b>Enclosure</b><br>IP 55 | <b>ICL</b><br>F        |
| <b>Phase</b><br>3                      | <b>IE Class</b><br>IE5       | <b>Frame Size</b><br>180  | <b>Standard</b><br>IEC |
| <b>Voltage</b><br>380-480 V            | <b>Motor Vendor</b><br>Xylem |                           |                        |
| <b>Speed</b><br>3600.0 rpm             |                              |                           |                        |
| <b>Rated Current</b><br>38.8 A         |                              |                           |                        |

## 66SVX04G220PT04QBE | Hydraulic Data & Performance Curve



Performance according to ISO 9906:2012

### Selection

|                         |                 |
|-------------------------|-----------------|
| Series                  | Standby Pumps   |
| e-SV hydrovar X         | No Standby Pump |
| Name                    |                 |
| 66SVX04..220            |                 |
| Stages                  |                 |
| 4                       |                 |
| Frequency               |                 |
| 50 Hz                   |                 |
| Acceptance Grade        |                 |
| Manufacturer's Standard |                 |
| System Type             |                 |
| Single Pump             |                 |
| Operating Pumps         |                 |
| 1                       |                 |

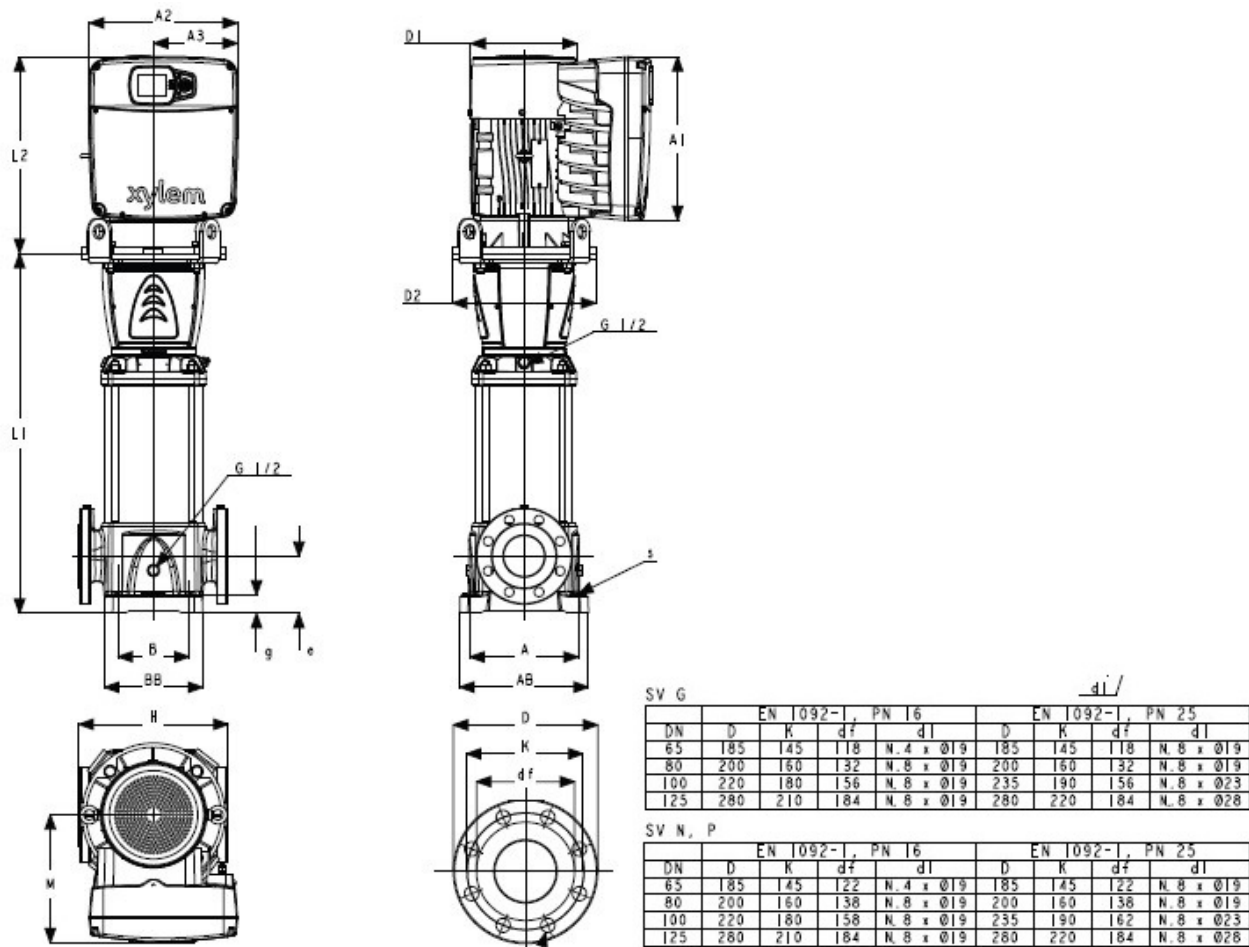
### Fluid and Operating Conditions

|                   |                         |
|-------------------|-------------------------|
| 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                     |
| 3,600 RPM               | 78.25 %                 |
| Min Flow                | BEP Flow                |
| 33.14 m <sup>3</sup> /h | 73.95 m <sup>3</sup> /h |
| Max Flow                | BEP Head                |
| 94.96 m <sup>3</sup> /h | 85.61 m                 |
| H@QMin                  | Max Operating Pressure  |
| 135.74 m                | 16,774.1 mbar           |
| H@QMax                  | Max P2                  |
| 55.3 m                  | 22.16 kW                |

## 66SVX04G220PT04QBE | Dimensional Data & Drawing



Drawing is preliminary and is subject to change.

### Dimensions

|        |        |               |              |
|--------|--------|---------------|--------------|
| A      | D2     | L1            | Total Weight |
| 265 mm | 350 mm | 879 mm        | 177 kg       |
| AB     | e      | DN            | L2           |
| 315 mm | 140 mm | 100 mm        | 480 mm       |
| B      | g      | S.            | D1           |
| 190 mm | 45 mm  | 4xØ15         | 260 mm       |
| BB     | H      | Weight (Pump) | A1           |
| 240 mm | 365 mm | 93 kg         | 400 mm       |
| A2     |        |               |              |
| 362 mm |        |               |              |
| A3     |        |               |              |
| 205 mm |        |               |              |
| M      |        |               |              |
| 312 mm |        |               |              |