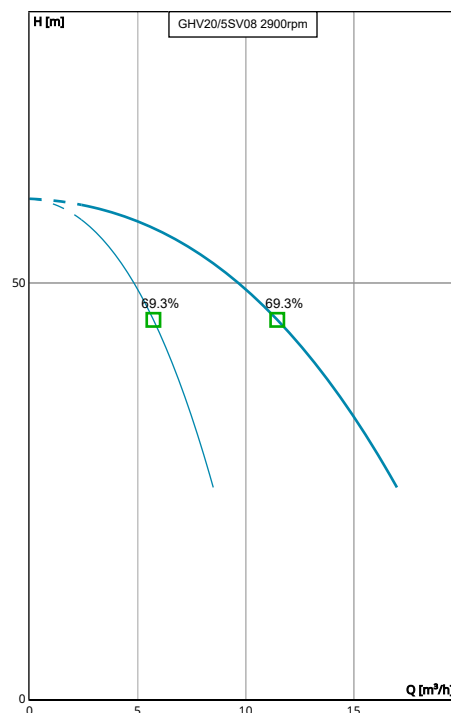


## GHV20/5SV08F011T/4 | Configuration Summary



Variable speed booster sets assembled with two up to four pumps. The frequency converter (hydrovar) is installed on each pump. The pumps used are the eSV model.



Performance according to ISO 9906:2012

### PUMP

|                                   |           |
|-----------------------------------|-----------|
| Installation                      | Pump Size |
| Non-return valve in Delivery side | 5SV08     |

### MATERIALS

|                  |
|------------------|
| Construction     |
| Standard version |

### SEAL

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

### STANDARD OPTIONS

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Include Certified Pump            | Include Double Pressure Transmitter |
| No                                | No                                  |
| Control Panel With Clean Contacts | High Pressure Protection Switch     |
| No                                | No                                  |
| Manifold Size                     | Delivery Manifold Turned By 90°     |
| Standard Manifold                 | No                                  |
| Include Protection Against Dry    | No                                  |

### MOTOR

|           |                   |
|-----------|-------------------|
| Frequency | Power             |
| 50        | 1.1 kW            |
| Poles     | Phase (~)         |
| 2         | 3                 |
|           | Voltage           |
|           | 220-240/380-415 V |

### FLANGE

|                                |
|--------------------------------|
| Flange                         |
| [F] = Round Flanges (AISI 304) |

### VFD

|                            |                         |
|----------------------------|-------------------------|
| Hydrovar Name              | Include Additional Card |
| HVL4.015 - 3PH 380-460 V   | No                      |
| Control Panel Power Supply | Hydrovar Position       |
| 3 PH x 400 V               | Standard Mounting       |

|                            |                                 |
|----------------------------|---------------------------------|
| Running                    | Control Panel Protection Degree |
| No                         | (IP65 version)                  |
| Suction Side               | No                              |
| Standard suction           | Control Panel With Emergency    |
| Delivery Side              | Button                          |
| Standard delivery          | No                              |
| Without Non-return Valve   | Aqueduct Installation           |
| No                         | No                              |
| Control Panel with Digital | Condensation Resistance         |
| Voltmeter and Ammeter      | (controlled by Thermostat)      |
| No                         | No                              |
| Control Panel With Timer   | Control Panel With Phase        |
| No                         | Missing                         |
| Electrical Certified Pump  | No                              |
| No                         | Without Control Devices         |
| Include Control Panel With | No                              |
| Inverter                   | Pressure Transmitters and       |
| No                         | HYDROVAR® Without Control       |
|                            | Panel-Bracket                   |
|                            | No                              |
|                            | Electric Pump Special Seals     |
|                            | No                              |
|                            | Wall Mounted Control Panel      |
|                            | No                              |
|                            | Rubber Joints on Suction and    |
|                            | Delivery Manifolds              |
|                            | No                              |
|                            | Rubber Joints At Suction and    |
|                            | Delivery                        |
|                            | No                              |
|                            | Y Filter On Suction Side        |
|                            | No                              |
|                            | Control Panel Ready For A Cloud |
|                            | Connect Device (not included)   |
|                            | No                              |

## GHV20/5SV08F011T/4 | Product Details

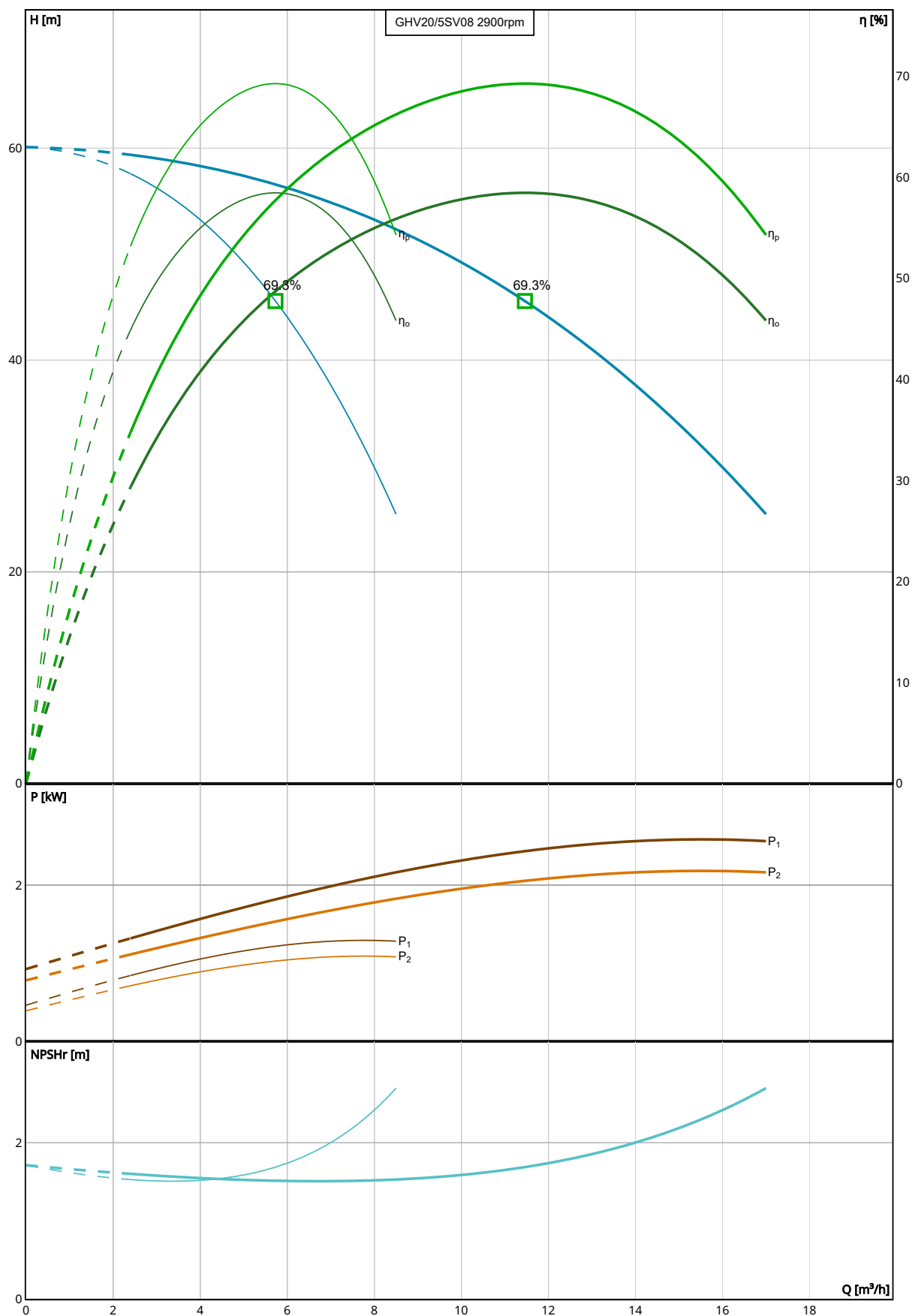
### Construction Materials

|                               |                                 |                             |                           |
|-------------------------------|---------------------------------|-----------------------------|---------------------------|
| - Sliding, blind, weld flange | Fittings (-)                    | Pressure gauge (-)          | Screws, nuts, washers (-) |
| - Pump counterflange (-)      | AISI 316                        | Water connection: Brass     | AISI 316                  |
| AISI 304                      | Manifolds (-)                   | Cover ABS                   | Vacuum pressure gauge (-) |
| Base (-)                      | AISI 304                        | Fluid: -                    | Water connection: Brass   |
| Painted steel                 | Non-return valves, threaded (-) | Pressure switches (-)       | Cover ABS                 |
| Bracket (-)                   | Body: Brass                     | Galvanized steel / AISI 304 | Fluid: glycol             |
| Painted steel                 | Shutter: Brass                  | Pressure transmitters (-)   |                           |
| Caps/plugs (-)                | On-off valves, threaded (-)     | AISI 304                    |                           |
| AISI 316                      | Nickel plated brass             | Pump flange (-)             |                           |
|                               |                                 | F/R                         |                           |

### Motor

|                  |                   |                |              |
|------------------|-------------------|----------------|--------------|
| Motor Name       | Phase             | IE Class       | Frame Size   |
| SM 80 B14 1.1 kW | 3                 | IE3            | 80           |
| Design           | Rated power       | Enclosure      | ICL          |
| IM B14           | 1.1 kW            | IP 55          | F            |
| Standard         | Service Factor    | Efficiency (%) | Motor Vendor |
| IEC              | 1                 | 84.4           | SM           |
| Shaft Diameter   | Voltage           | cos phi        | Weight       |
| 19 mm            | 220-240/380-415 V | 0.79           | 11.5 kg      |
| L Shaft          | Speed             | Rated Current  |              |
| 40 mm            | 2870.0 rpm        | 4.14-2.39 A    |              |

## GHV20/5SV08F011T/4 | Hydraulic Data & Performance Curve



Performance according to ISO 9906:2012

### Selection

|                     |                         |
|---------------------|-------------------------|
| Series              | Acceptance Grade        |
| GHV                 | Manufacturer's Standard |
| Name                | System Type             |
| GHV20/5SV08 2900rpm | Multi Pump              |
| Stages              | Operating Pumps         |
| 8                   | 2                       |
| Frequency           | Standby Pumps           |
| 50 Hz               | No Standby Pump         |
| Impeller Diameters  |                         |
| 8x 76 mm            |                         |
| Suction Type        |                         |
| Pressurized         |                         |
| Station Losses      |                         |
| 344.74 mbar         |                         |

### 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                     |

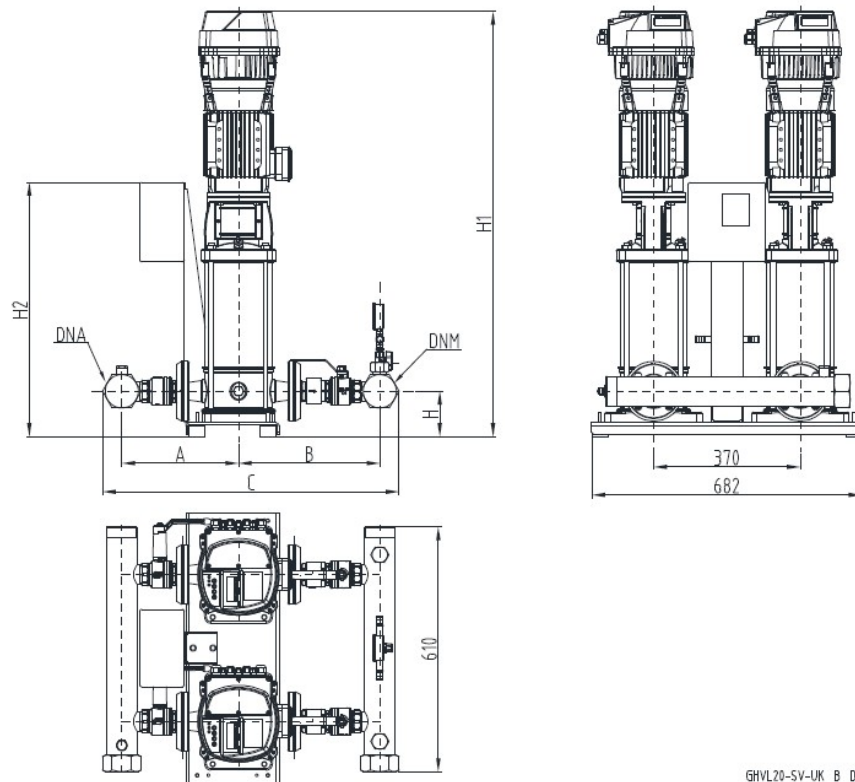
### Design Curve - Single Pump

|                       |                             |
|-----------------------|-----------------------------|
| Rated Speed           | BEP (1x)                    |
| 2,900 RPM             | 69.27 %                     |
| Min Flow (1x)         | BEP Flow (1x)               |
| 2.4 m <sup>3</sup> /h | 5.73 m <sup>3</sup> /h      |
| Max Flow (1x)         | BEP Head (1x)               |
| 8.5 m <sup>3</sup> /h | 45.57 m                     |
| H@QMin (1x)           | Max Operating Pressure (1x) |
| 57.59 m               | 5,886.49 mbar               |
| H@QMax (1x)           | Shut Off Head (1x)          |
| 25.44 m               | 60.11 m                     |
|                       | Max P2 (1x)                 |
|                       | 1.09 kW                     |

### Design Curve - System

|                       |                         |
|-----------------------|-------------------------|
| Rated Speed           | BEP                     |
| 2,900 RPM             | 69.27 %                 |
| Min Flow              | BEP Flow                |
| 2.4 m <sup>3</sup> /h | 11.46 m <sup>3</sup> /h |
| Max Flow              | BEP Head                |
| 17 m <sup>3</sup> /h  | 45.57 m                 |
| H@QMin                | Max Operating Pressure  |
| 59.38 m               | 5,886.49 mbar           |
| H@QMax                | Shut Off Head           |
| 25.44 m               | 60.11 m                 |
|                       | Max P2                  |
|                       | 2.18 kW                 |

## GHV20/5SV08F011T/4 | Dimensional Data & Drawing



Drawing is preliminary and is subject to change.

### Dimensions

|          |                      |
|----------|----------------------|
| <b>A</b> | <b>H1</b>            |
| 260 mm   | 895 mm               |
| <b>B</b> | <b>H2</b>            |
| 329 mm   | 800 mm               |
| <b>C</b> | <b>DNA (Rp/R/DN)</b> |
| 649 mm   | R 2"                 |
| <b>H</b> | <b>DNM (Rp/R/DN)</b> |
| 109 mm   | R 2"                 |