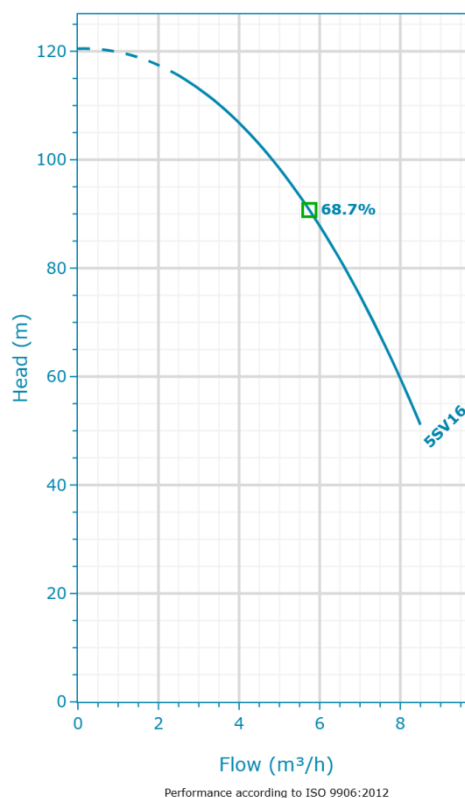


## GHV10/5SV16F022T/2 | Configuration Summary



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.



### PUMP

Installation	Pump Size
Non-return valve in Delivery side	5SV16

### 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
Include Protection Against Dry Running	High Pressure Protection Switch
No	No
Without Non-Return Valve	Without Control Devices
No	No

### MOTOR

Frequency	Power
50	2.2 kW
Poles	Phase (~)
2	3
	Voltage
	220-240/380-415 V

### FLANGE

Flange
[F] = Round Flanges (AISI 304)

### VFD

Hydrovar Name	Include Additional Card
HVL2.022 - 1PH 208-240 V	No
Control Panel Power Supply	
1 PH x 230 V	

Electrical Certified Pump

No

Include Control Panel With  
Inverter

No

Electric Pump Special Seals

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

## GHV10/5SV16F022T/2 | Product Details

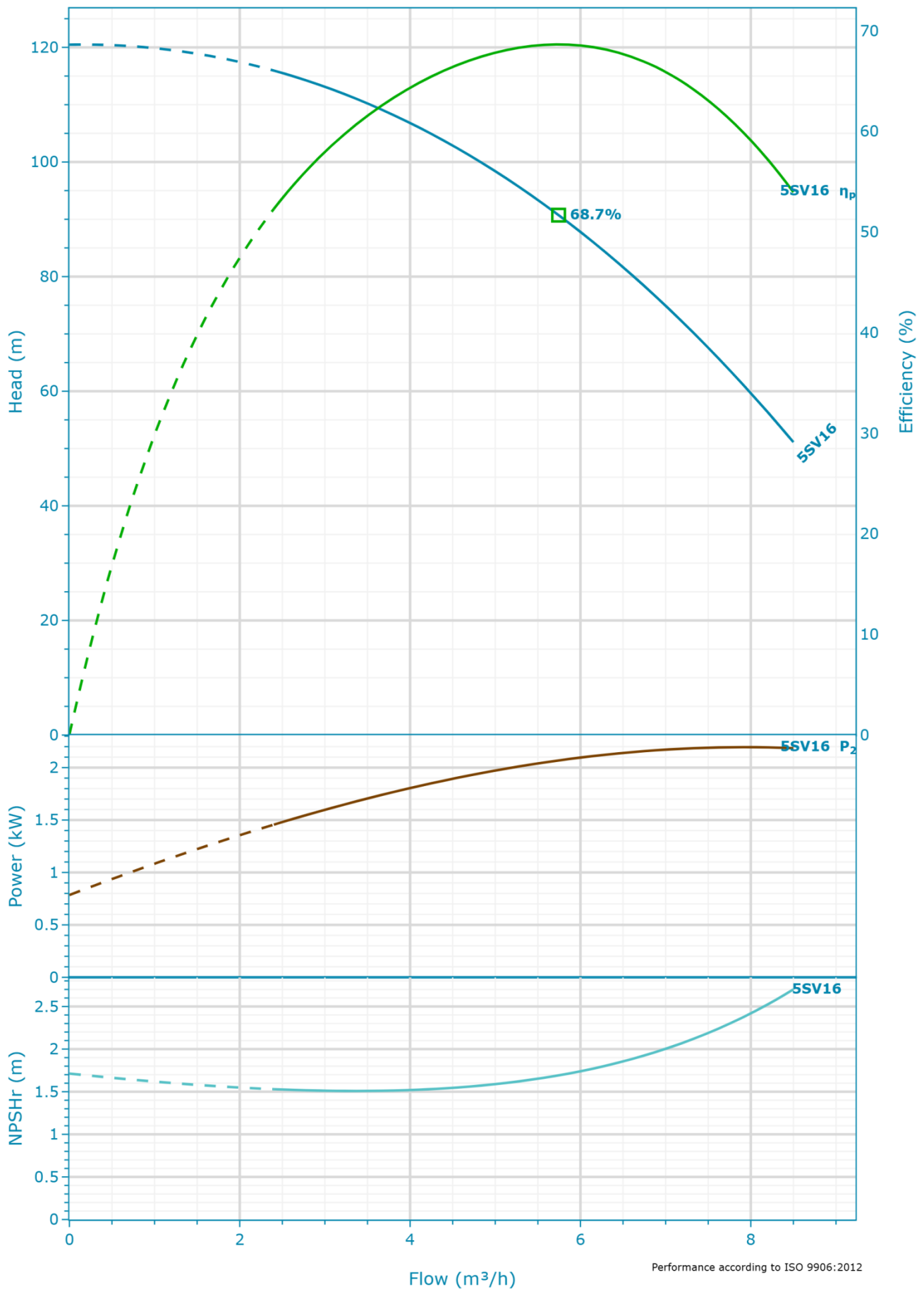
### Construction Materials

<b>Base (-)</b> Painted steel	<b>Manifolds (-)</b> AISI 304	<b>Pressure gauge (-)</b> Water Connection: Brass Cover: ABS Fluid: -	<b>Sliding, blind, weld flange Counterflange (-)</b> AISI 304
<b>Bracket (-)</b> Galvanized or painted steel	<b>Miscellaneous (-)</b> AISI 316	<b>Pressure switch (-)</b> Galvanized steel / AISI 304	<b>Vacuum pressure gauge (-)</b> Water Connection: Brass Cover: ABS Fluid: -
<b>Caps/plugs (-)</b> AISI 316	<b>Non-return valves (-)</b> Body: Brass Shutter: Brass	<b>Pressure transmitters (-)</b> AISI 304	
<b>Fittings (-)</b> AISI 316	<b>On-off valves, threaded (-)</b> Nickel-plated brass	<b>Pump flange (-)</b> F, R	

### Motor

<b>Motor Name</b> PLM 90 B14 2.2 kW	<b>Phase</b> 3	<b>IE Class</b> IE3	<b>Frame Size</b> 90 L
<b>Design</b> IM B14	<b>Rated power</b> 2.2 kW	<b>Enclosure</b> IP 55	<b>ICL</b> F
<b>Standard</b> IEC	<b>Service Factor</b> 1	<b>Efficiency (%)</b> 86.4	<b>Start Mode</b> Star-delta
<b>Shaft Diameter</b> 24 mm	<b>Voltage</b> 220-240/380-415 V	<b>cos phi</b> 0.8	<b>Motor Vendor</b> PLM
<b>L Shaft</b> 50 mm	<b>Speed</b> 2880.0 rpm	<b>Rated Current</b> 7.9-4.56 A	

## GHV10/5SV16F022T/2 | Hydraulic Data & Performance Curve



#### Selection

Series	Acceptance Grade
GHV	Manufacturer's Standard
Name	System Type
GHV10/5SV16 2900rpm	Multi Pump
Stages	Operating Pumps
16	1
Frequency	Standby Pumps
50 Hz	No Standby Pump
Impeller Diameters	
16x 76 mm	
Suction Type	
Pressurized	
Station Losses	
344.74 mbar	

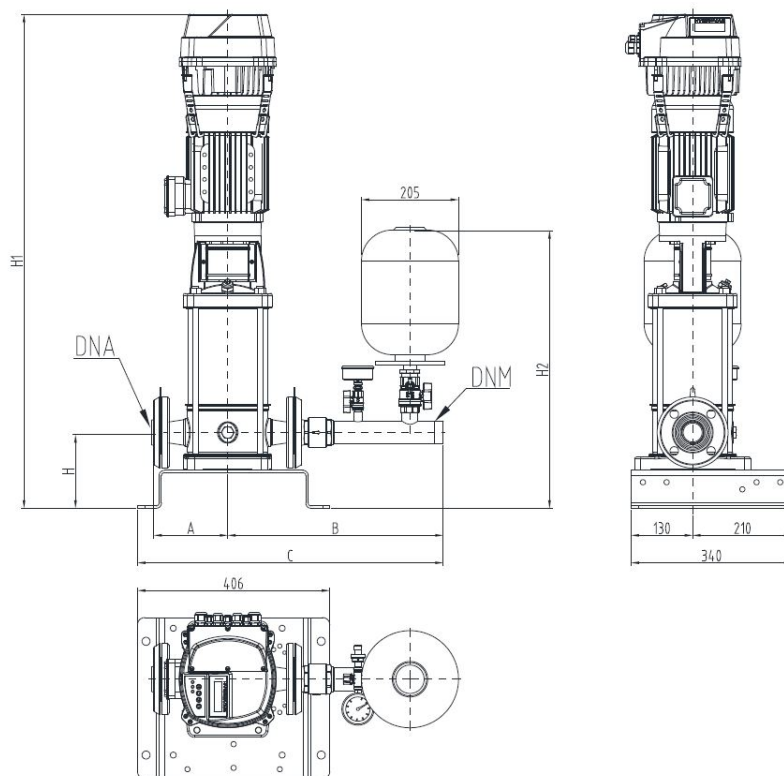
#### Fluid and Operating Conditions

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 - System

Rated Speed	BEP
2,900 RPM	68.65 %
Min Flow	BEP Flow
2.4 m <sup>3</sup> /h	5.74 m <sup>3</sup> /h
Max Flow	BEP Head
8.5 m <sup>3</sup> /h	90.72 m
H@QMin	Max Operating Pressure
115.95 m	11,798.64 mbar
H@QMax	Max P2
51.11 m	2.2 kW

## GHV10/5SV16F022T/2 | Dimensional Data & Drawing



Drawing is preliminary and is subject to change.

GHV10-SV\_A\_00

### Dimensions

<b>A</b>	<b>H1</b>
144 mm	1186 mm
<b>B</b>	<b>H2</b>
446 mm	586 mm
<b>C</b>	<b>DNA (Rp/R/DN)</b>
621 mm	Rp 1 1/4"
<b>H</b>	<b>DNM (Rp/R/DN)</b>
155 mm	R 1 1/4"