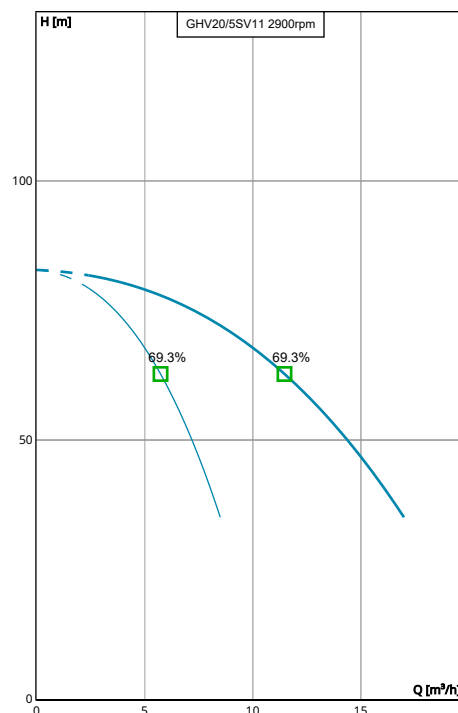


GHV20/5SV11F015T/4 | Configuration Summary



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	5SV11

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	

MOTOR

Frequency	Power
50	1.5 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

GHV20/5SV11F015T/4 | Product Details

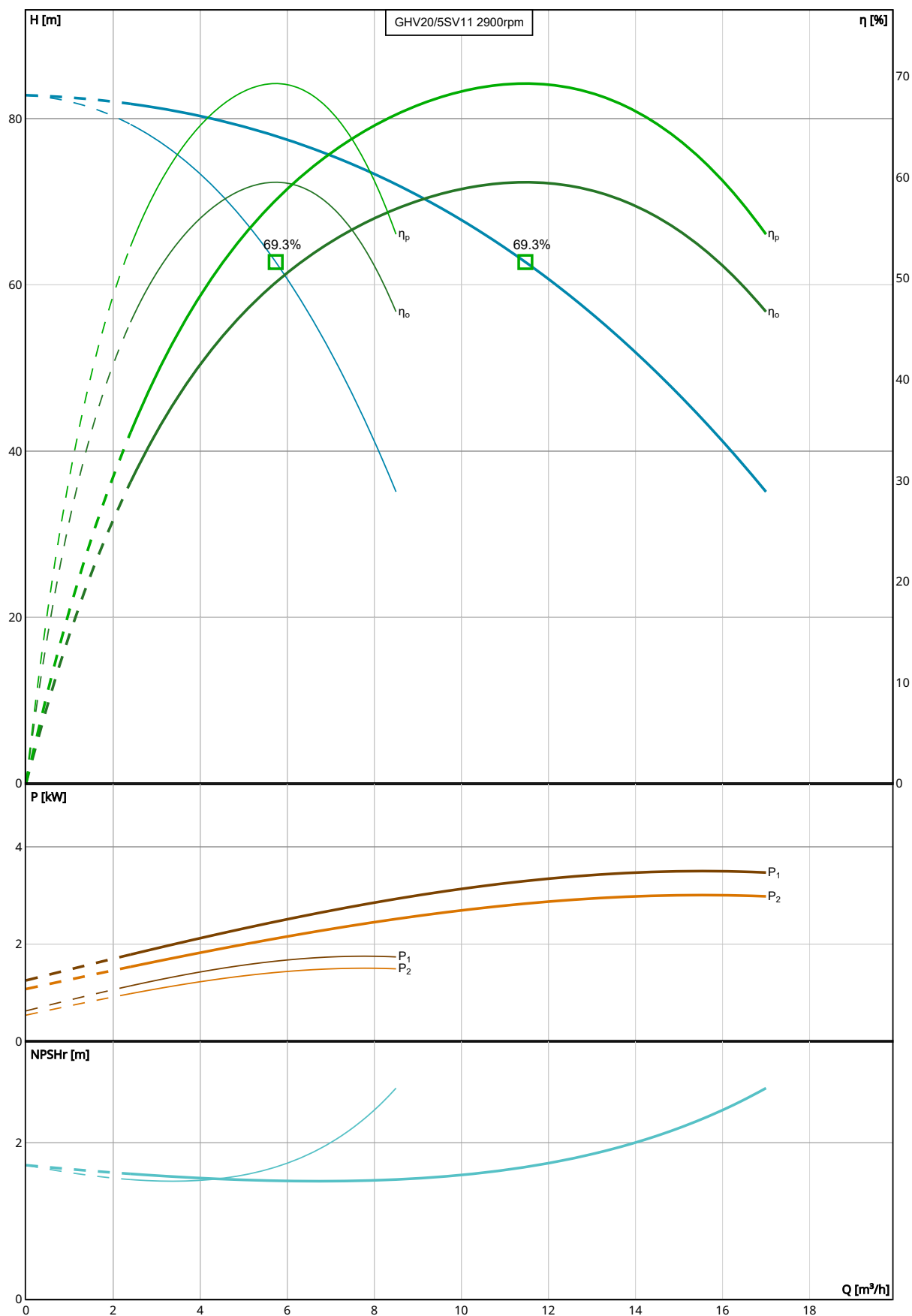
Construction Materials

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

Motor

Motor Name SM 90R B14 1.5 kW	Phase 3	IE Class IE3	Frame Size 90 S
Design IM B14	Rated power 1.5 kW	Enclosure IP 55	ICL F
Standard IEC	Service Factor 1	Efficiency (%) 85.9	Motor Vendor SM
Shaft Diameter 24 mm	Voltage 220-240/380-415 V	cos phi 0.8	Weight 13.4 kg
L Shaft 50 mm	Speed 2870.0 rpm	Rated Current 5.49-3.17 A	

GHV20/5SV11F015T/4 | Hydraulic Data & Performance Curve



Performance according to ISO 9906:2012

Selection

Series	Acceptance Grade
GHV	Manufacturer's Standard
Name	System Type
GHV20/5SV11 2900rpm	Multi Pump
Stages	Operating Pumps
11	2
Frequency	Standby Pumps
50 Hz	No Standby Pump
Impeller Diameters	
11x 76 mm	
Suction Type	
Pressurized	
Station Losses	
344.74 mbar	

Fluid and Operating Conditions

Fluid Type	Density
Water	1,000 kg/m ³
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

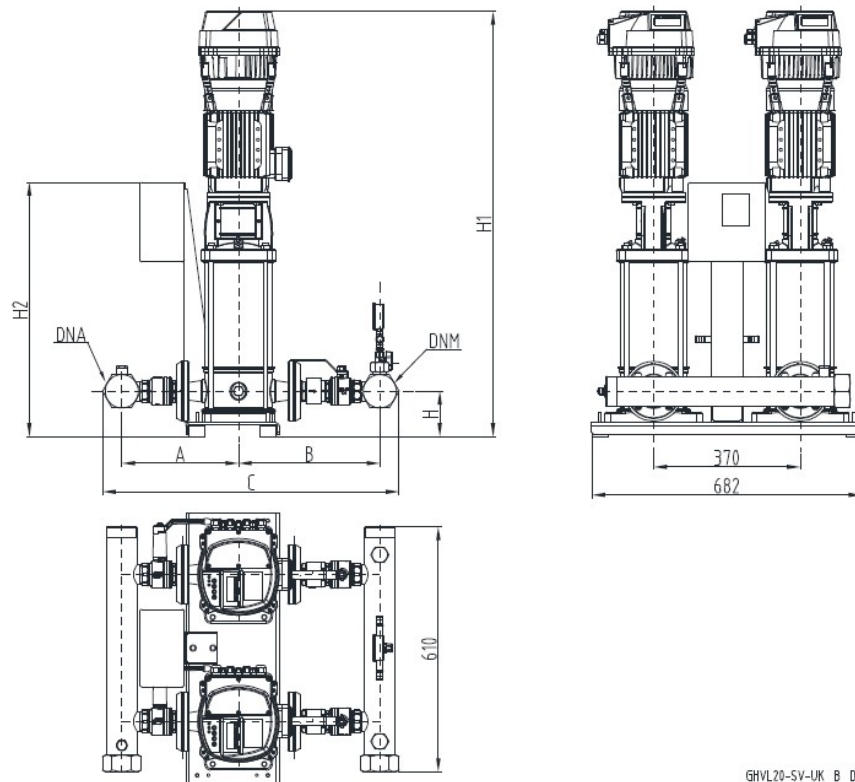
Design Curve - Single Pump

Rated Speed	BEP (1x)
2,900 RPM	69.27 %
Min Flow (1x)	BEP Flow (1x)
2.4 m ³ /h	5.74 m ³ /h
Max Flow (1x)	BEP Head (1x)
8.5 m ³ /h	62.74 m
H@QMin (1x)	Max Operating Pressure (1x)
79.31 m	8,109.57 mbar
H@QMax (1x)	Shut Off Head (1x)
35.11 m	82.81 m
	Max P2 (1x)
	1.5 kW

Design Curve - System

Rated Speed	BEP
2,900 RPM	69.27 %
Min Flow	BEP Flow
2.4 m ³ /h	11.47 m ³ /h
Max Flow	BEP Head
17 m ³ /h	62.74 m
H@QMin	Max Operating Pressure
81.78 m	8,109.57 mbar
H@QMax	Shut Off Head
35.11 m	82.81 m
	Max P2
	3.01 kW

GHV20/5SV11F015T/4 | Dimensional Data & Drawing



Drawing is preliminary and is subject to change.

Dimensions

A	H1
260 mm	980 mm
B	H2
329 mm	800 mm
C	DNA (Rp/R/DN)
649 mm	R 2"
H	DNM (Rp/R/DN)
109 mm	R 2"