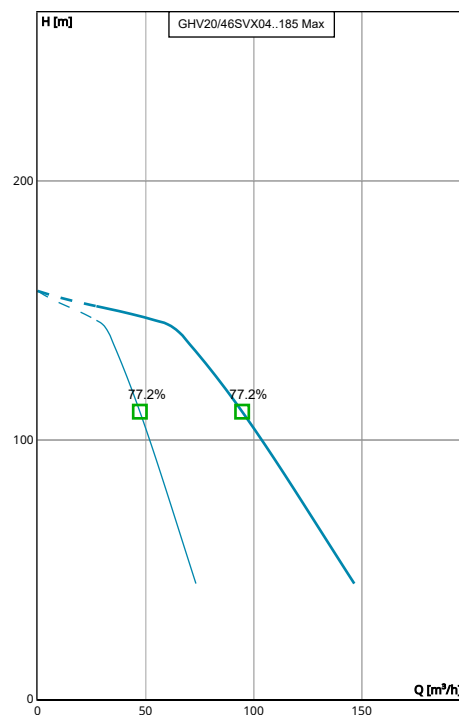


GHV20/46SVX04G185/4 | Configuration Summary



The GHV hydrovar® X series booster sets are fully automatic variable speed solutions for water supply, water pressure increase and water transfer in condominiums, office buildings, hotels, public buildings, industries and other applications.



Performance according to ISO 9906:2012

PUMP

Installation	Pump Size
Non-return valve in Delivery side	46SV4
Hydrovar Name	
hydrovar X+	

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

STANDARD OPTIONS

Control Panel with Digital Voltmeter and Ammeter	Include Double Pressure Transmitter
No	No
Condensation Resistance (controlled by Thermostat)	High Pressure Protection Switch
No	No
Include Certified Pump	Delivery side turned upwards by 90° using elbow
No	No
Include Optical Sensor	Control Panel Protection Degree

MOTOR

Power
18.5 kW
Phase (~)
3
Voltage
380-480 V
Control Panel Power Supply
3 PH x 400 V

FLANGE

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

VFD

Phase	Supply Voltage
3	400 V

No	(IP65 version)
Include Protection Against Dry Running	No
No	Control Panel With Emergency Button
Suction Side	No
Standard suction	Aqueduct Installation
Delivery Side	No
Standard delivery	Control Panel With Phase Missing
Control Panel With Timer	No
No	Pressure Transmitters and HYDROVAR® Without Control Panel-Bracket
Control Panel Mounting Options	No
Standard Mounting	Electric Pump Special Seals
Control Panel with Cloud Connect Device	No
No	IT Neutral
IT Neutral	No
No	Wall Mounted Control Panel
	No

GHV20/46SVX04G185/4 | Product Details

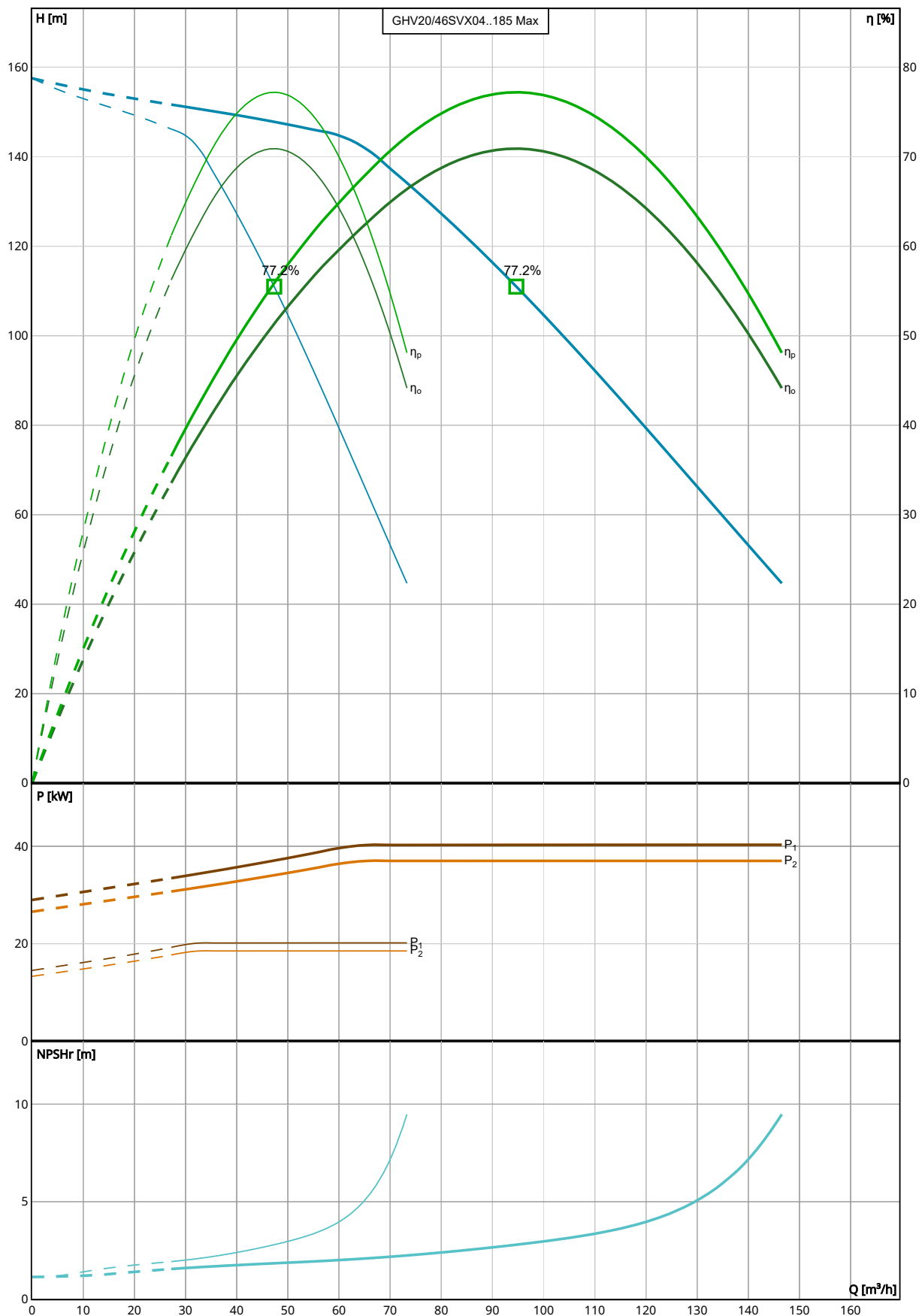
Construction Materials

Manifolds (-) AISI 304	Non-return valves, axial type, flanged (-) Body, Cast iron painted Disco, brass or epoxy	Caps/plugs (-) AISI 304 / 316	Base (-) Painted steel
Sliding/Blind Flanges (not in contact with liquid) (-) AISI 304	Non-return valves, double plate type (-) -	Welded flanges (contact with liquid) (-) AISI 304	Pressure gauge (-) Water Connection: brass Cover: ABS Fluid: -
On-off valves, threaded type (-) Nickel-plated brass	Pressure switches (-) Galvanized steel / AISI 304	Fittings (-) AISI 316	Screws, nuts, washers (-) Galvanized steel
On-off valves flanged type (-) Body: ductile iron Disc: epoxy	Pressure transmitters (-) AISI 304	Bracket (-) Painted steel	

Motor

Motor Name EXM160B5SV/4.185D	Rated power 18.5 kW	Enclosure IP 55	ICL F
Phase 3	IE Class IE5	Frame Size 160	Standard IEC
Voltage 380-480 V	Motor Vendor Xylem		
Speed 3600.0 rpm			
Rated Current 33.4 A			

GHV20/46SVX04G185/4 | Hydraulic Data & Performance Curve



Performance according to ISO 9906:2012

Selection

Series	System Type
GHV hydrovar X e-SV	Multi Pump
Name	Operating Pumps
GHV20/46SVX04..185	2
Stages	Standby Pumps
4	No Standby Pump
Frequency	
50 Hz	
Suction Type	
Pressurized	
Station Losses	
344.74 mbar	
Acceptance Grade	
Manufacturer's Standard	

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

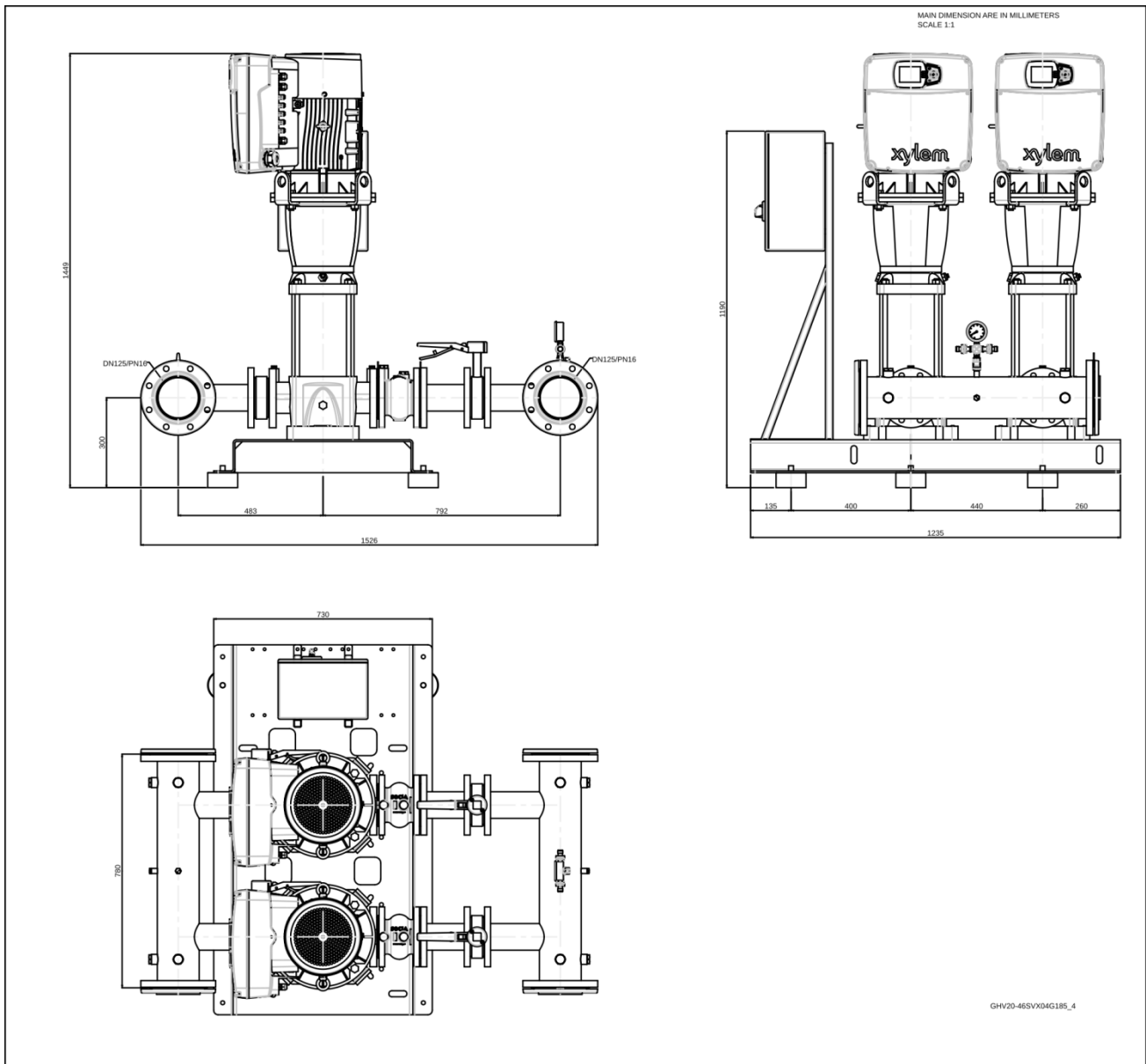
Design Curve - Single Pump

Rated Speed	BEP (1x)
3,600 RPM	77.19 %
Min Flow (1x)	BEP Flow (1x)
27.21 m ³ /h	47.33 m ³ /h
Max Flow (1x)	BEP Head (1x)
73.28 m ³ /h	110.96 m
H@QMin (1x)	Max Operating Pressure (1x)
146.17 m	15,425.73 mbar
H@QMax (1x)	Shut Off Head (1x)
44.64 m	157.53 m
	Max P2 (1x)
	18.52 kW

Design Curve - System

Rated Speed	BEP
3,600 RPM	77.19 %
Min Flow	BEP Flow
27.21 m ³ /h	94.66 m ³ /h
Max Flow	BEP Head
146.55 m ³ /h	110.96 m
H@QMin	Max Operating Pressure
151.65 m	15,425.73 mbar
H@QMax	Shut Off Head
44.64 m	157.53 m
	Max P2
	37.03 kW

GHV20/46SVX04G185/4 | Dimensional Data & Drawing



Drawing is preliminary and is subject to change.

Dimensions

There is no information available for the given configuration.