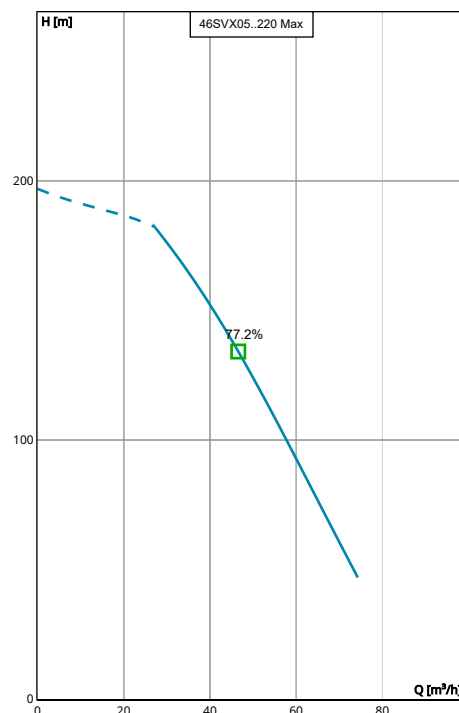


46SVX05G220PT04QBE | Configuration Summary



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	46SV
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

46SVX05G220PT04QBE | Product Details



05104_A_DS

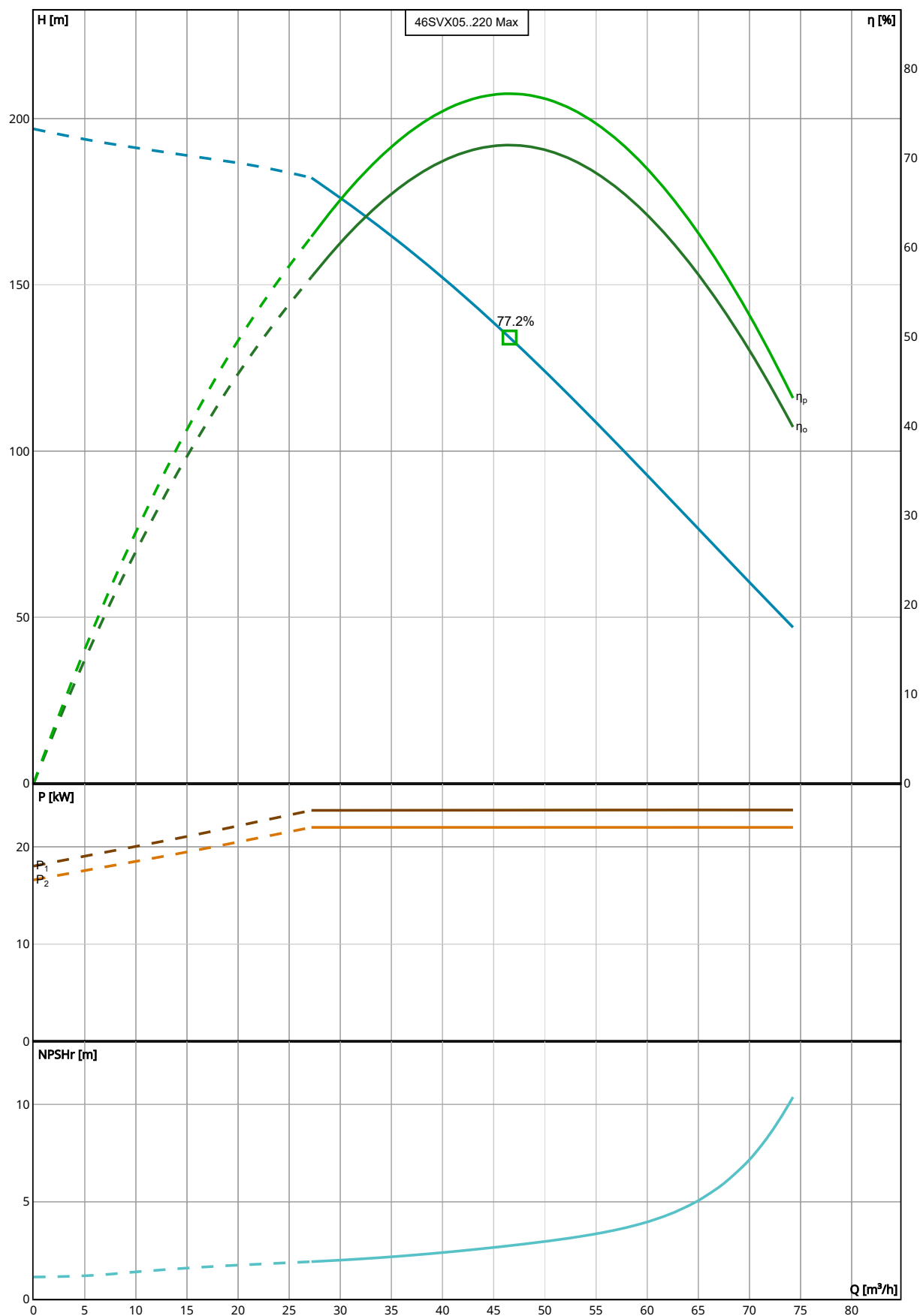
Construction Materials

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

Motor

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

46SVX05G220PT04QBE | Hydraulic Data & Performance Curve



Performance according to ISO 9906:2012

Selection

Series	Standby Pumps
e-SV hydrovar X	No Standby Pump
Name	
46SVX05..220	
Stages	
5	
Frequency	
50 Hz	
Acceptance Grade	
Manufacturer's Standard	
System Type	
Single Pump	
Operating Pumps	
1	

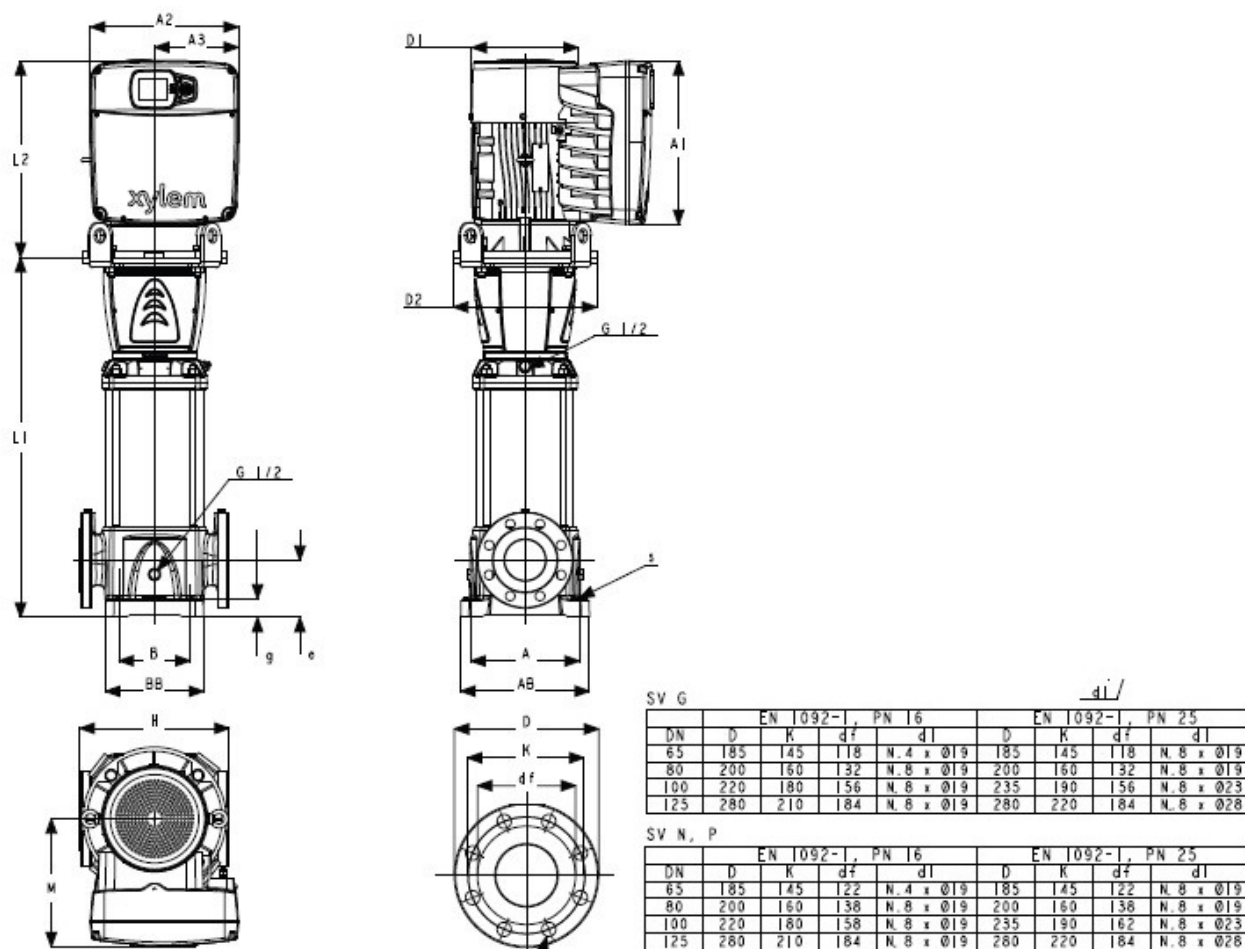
Fluid and Operating Conditions

Fluid Type	Density
Water	1,000 kg/m 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

Rated Speed	BEP
3,600 RPM	77.19 %
Min Flow	BEP Flow
27.17 m ³ /h	46.55 m ³ /h
Max Flow	BEP Head
74.26 m ³ /h	134.16 m
H@QMin	Max Operating Pressure
182.21 m	19,282.17 mbar
H@QMax	Max P2
47.01 m	22.03 kW

46SVX05G220PT04QBE | Dimensional Data & Drawing



Drawing is preliminary and is subject to change.

Dimensions

A	D2	L1	Total Weight
265 mm	350 mm	884 mm	167 kg
AB	e	DN	L2
315 mm	140 mm	80 mm	480 mm
B	g	S.	D1
190 mm	45 mm	4xØ15	260 mm
BB	H	Weight (Pump)	A1
240 mm	365 mm	83 kg	400 mm
A2			
362 mm			
A3			
205 mm			
M			
312 mm			