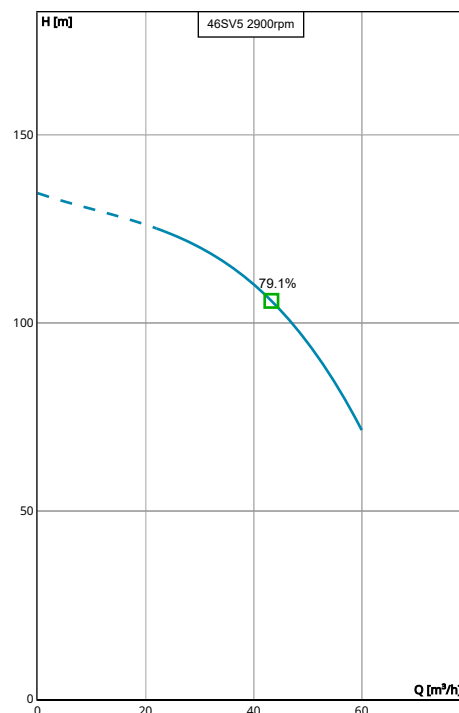


46SV5N185T/E | Configuration Summary



The Lowara e-SV vertical multistage pump is a highly reliable and technologically advanced multipurpose pump. It's capable of satisfying the needs of a wide variety of users and many different construction designs are available. The e-SV range feature models in eleven sizes with 1-3-5-10-15-22-33-46-66-92-125 m³/h nominal capacities.



Performance according to ISO 9906:2012

PUMP

Installation	Pump Size
Complete Pump	46SV

MATERIALS

Pump Body Material	Impeller Material
Stainless Steel	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

PTC Sensor	Special Configuration
No	Please Select

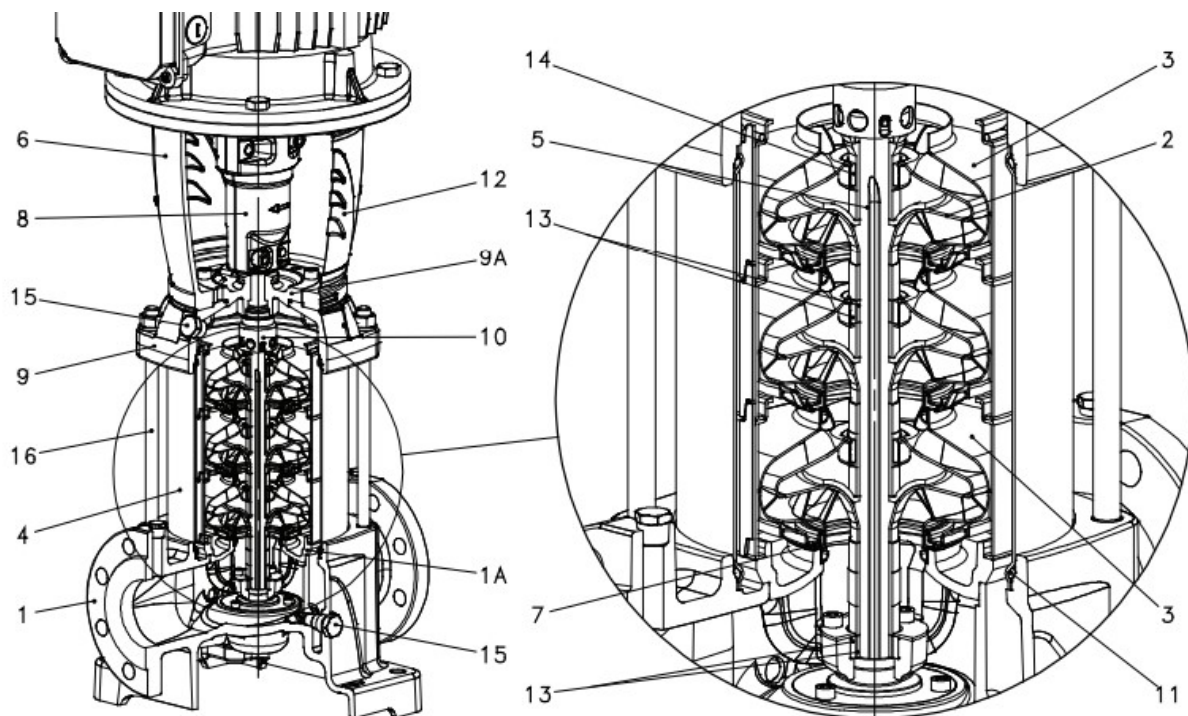
MOTOR

Vendor	Power
Lowara by Omega	18.5 kW
Frequency (Hz)	Phase (~)
50	3
Poles	Voltage
2	380-415/660-690 V
Efficiency	Frame Size
IE3	160 L

FLANGE

Flange
[N] = Round Flanges (AISI 316)

46SV5N185T/E | Product Details



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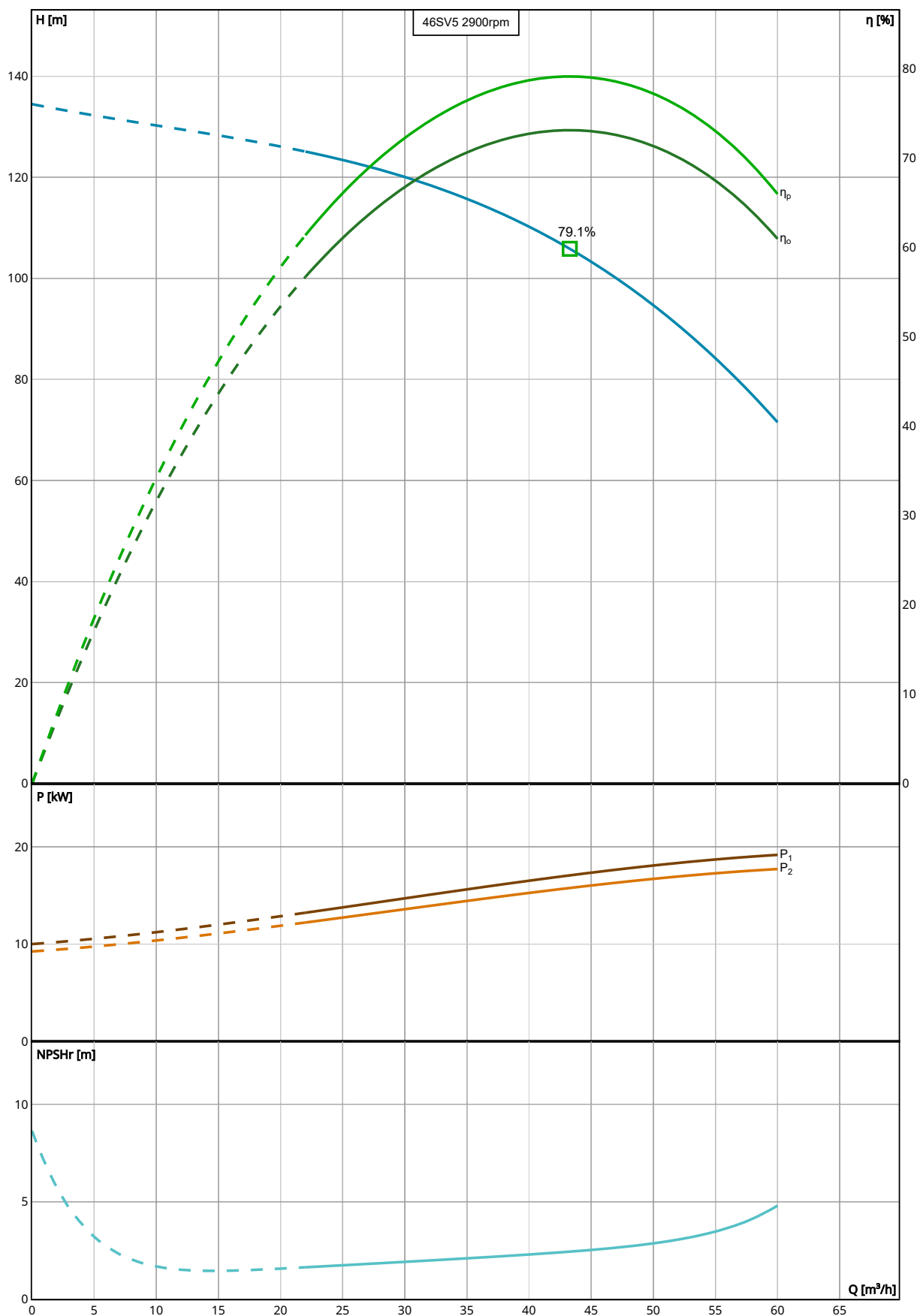
Construction Materials

Pump body (1) Stainless Steel / ASTM CF8M	Outer sleeve (4) Stainless steel / AISI 316L	Coupling (8) Cast Iron / ASTM Class 25	Elastomers (11) See Seal section
Lower support (1A) Stainless Steel / ASTM CF8M	Shaft (5) Duplex stainless steel	Upper head (9) Stainless Steel / ASTM CF8M	Coupling protection (12) Stainless steel / AISI 304
Impeller (2) Stainless steel / AISI 316L	Adapter (6) Cast Iron / ASTM Class 25	Seal housing (9A) Stainless Steel / ASTM CF8M	Shaft sleeve and bushing (13) Tungsten carbide
Diffuser (3) Stainless steel / AISI 316L	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) Stainless steel / AISI 431			

Motor

Motor Name 3MAS 160 L B5 18.5 kW	Phase 3	IE Class IE3	Frame Size 160 L
Design IM B5	Rated power 18.5 kW	Enclosure IP 55	ICL F
Standard IEC	Service Factor 1.1	Efficiency (%) 92.4	Weight 112 kg
Shaft Diameter 42 mm	Voltage 380-415/660-690 V	cos phi 0.89	
L Shaft 110 mm	Speed 2940.0 rpm	Rated Current 32.5-18.9 A	

46SV5N185T/E | Hydraulic Data & Performance Curve



Performance according to ISO 9906:2012

Selection

Series	Operating Pumps
e-SV	1
Name	Standby Pumps
46SV5 2900rpm	No Standby Pump
Stages	
5	
Frequency	
50 Hz	
Impeller Diameters	
5x 133 mm	
Acceptance Grade	
Manufacturer's Standard	
System Type	
Single Pump	

Fluid and Operating Conditions

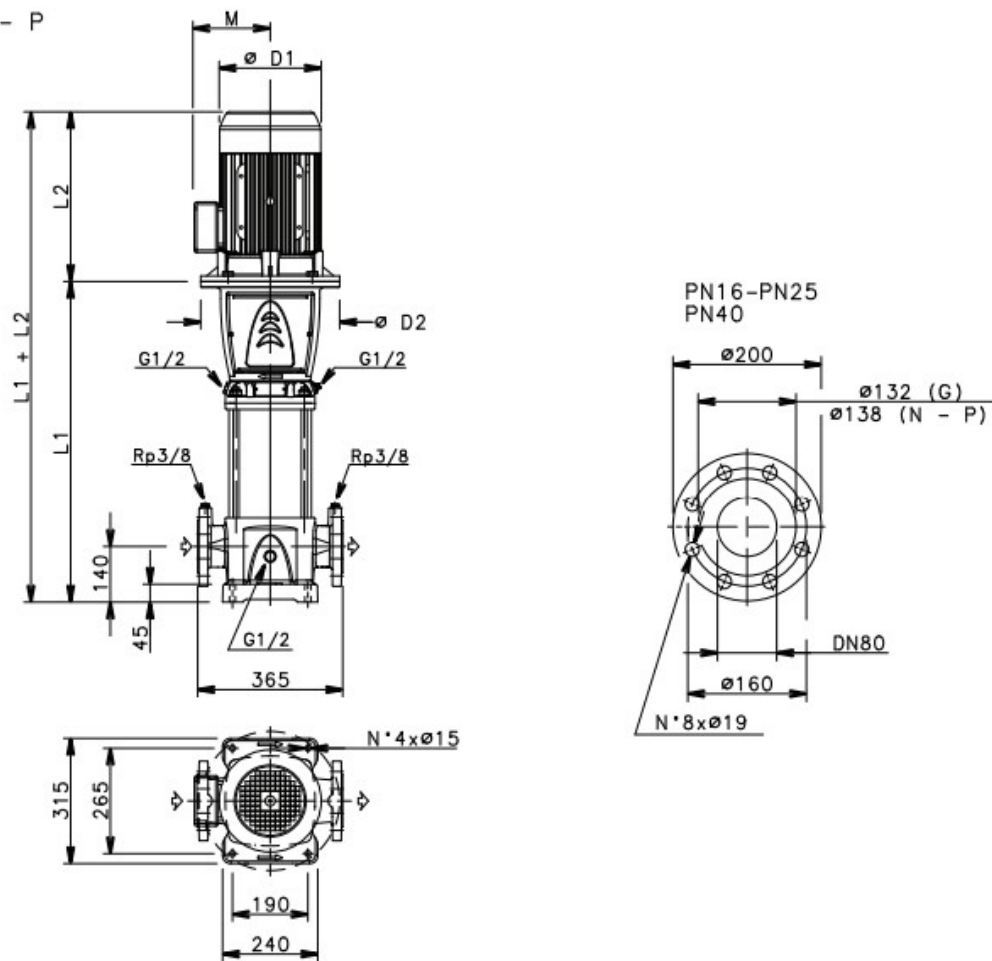
Fluid Type	Density
Water	1,000 kg/m ³
Fluid Temperature	Dynamic Viscosity
4 °C	0.002 Pa·s
Specific Gravity	Fluid Vapor Pressure
1	8.14 mbar
	Atmospheric Pressure
	1,013.53 mbar
	Elevation
	0 m
	Ambient Temperature
	20 °C
	NPSH Available
	10.27 m
	Submergence
	0 m

Design Curve

Rated Speed	BEP
2,900 RPM	79.12 %
Min Flow	BEP Flow
22 m ³ /h	43.28 m ³ /h
Max Flow	BEP Head
60 m ³ /h	105.85 m
H@QMin	Max Operating Pressure
125.1 m	13,168.63 mbar
H@QMax	Max P2
71.52 m	17.71 kW

46SV5N185T/E | Dimensional Data & Drawing

46SV G - N - P
(DN80)



Drawing is preliminary and is subject to change.

05106_E_DD

Dimensions

D1	M
322 mm	240 mm
D2	PN
350 mm	16
L1	Weight (Pump Only)
884 mm	82 kg
L2	Total Weight
545 mm	200 kg