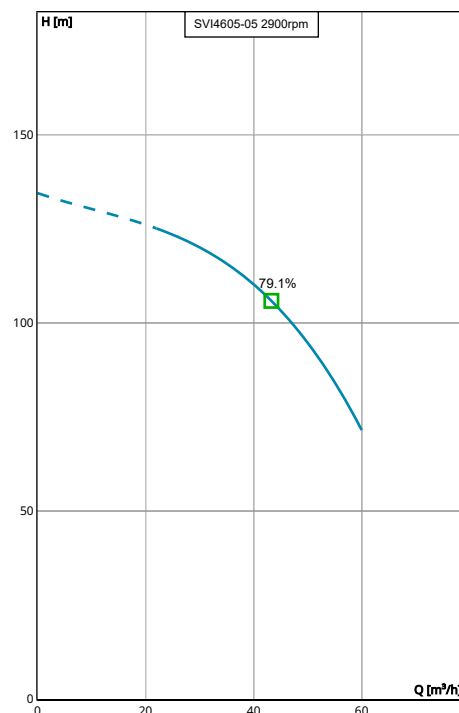


SVI4605-05S185T | Configuration Summary



The e-SVI is an efficient, reliable, high-performance pump, comprised of an energy saving, vertical multistage pump coupled to a IEC high efficient motor. Plus, an immersible hydraulic end provides an ideal solution for top mount applications.



Performance according to ISO 9906:2012

PUMP

Installation	Number Of Impellers
Coupled	5
Immersion Depth	Empty Stages Added
48.21 cm	0
Minimum Depth	Total Number Of Stages
48.21 cm	5
Maximum Depth	Pump Size
108.20 cm	SVI46

MATERIALS

Construction
Stainless Steel (AISI 304)

SEAL

Type of Seal	Rotating Face
Mechanical Seals	Silicon Carbide
Name	Stationary Face
Q1BVG	Resin Impregnated Carbon
	Elastomers
	FKM (FPM)
	Springs
	AISI 316
	Metal Components
	AISI 316
	Min Temperature
	-10.0 °C
	Max Temperature
	90.0 °C

MOTOR

Vendor	Power
Lowara PLM	18.5 kW
Frequency (Hz)	Phase (~)
50	3
Poles	Voltage
2	380-415/660-690 V
Efficiency	
IE3	

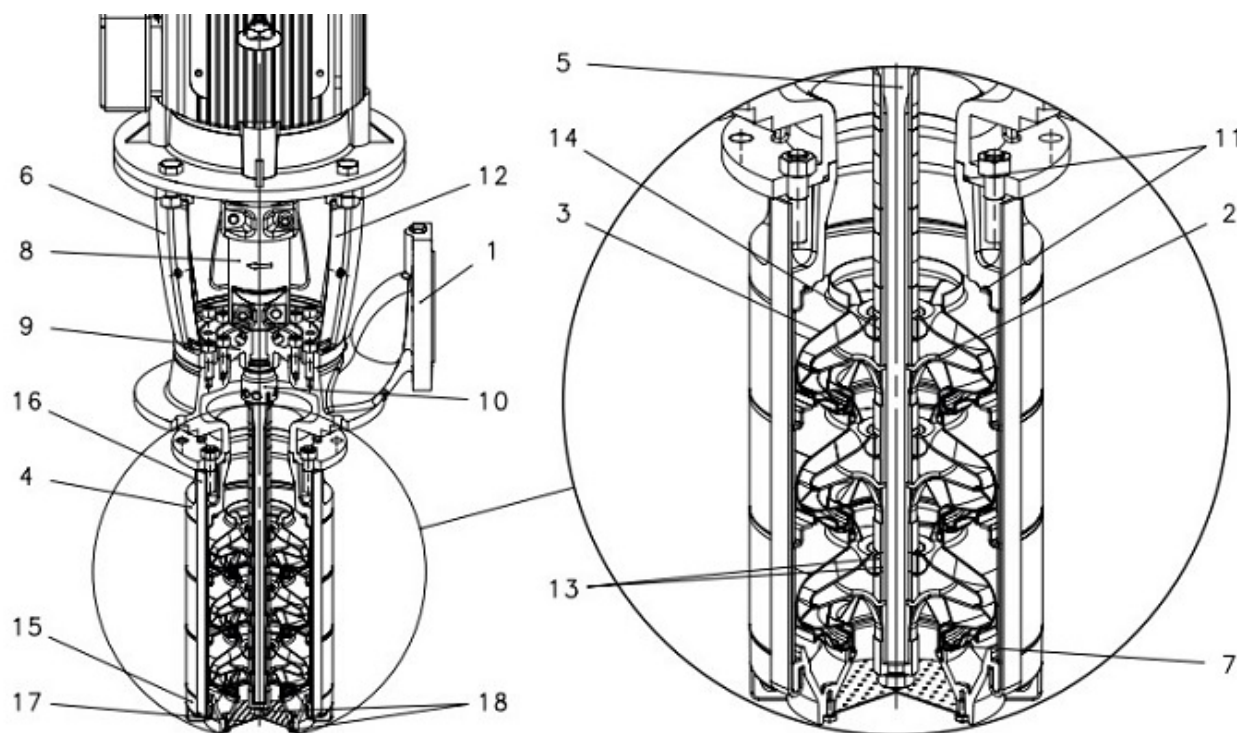
STANDARD OPTIONS

PTC Sensor	UL Approved (cURus)
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No

No

SVI4605-05S185T | Product Details



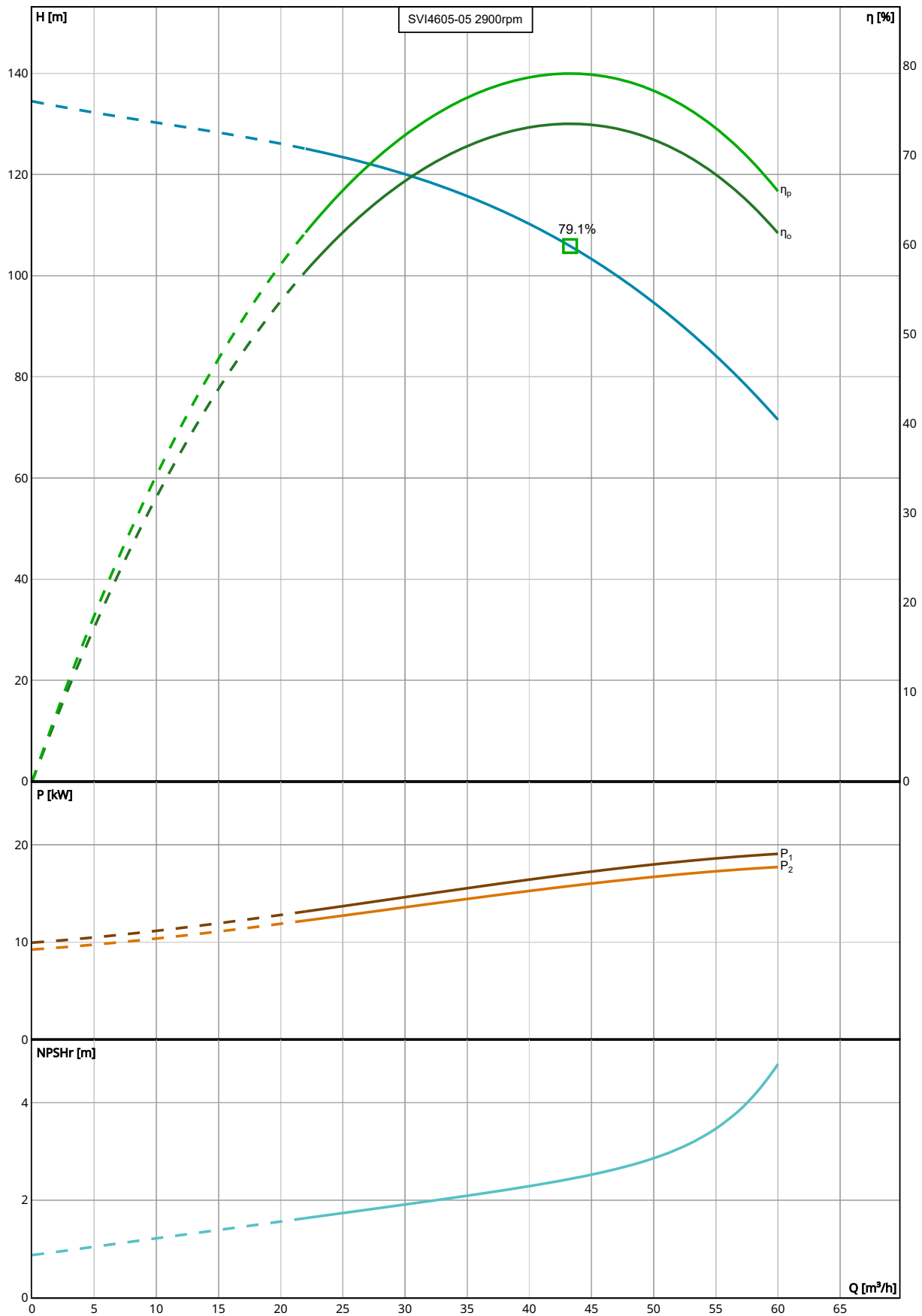
Construction Materials

Upper head (1) Cast iron / ASTM Class 35	Shaft (5) Stainless Steel / AISI 431	Seal housing (9) Cast iron / ASTM Class 35	Shaft sleeve and bushing (13) Tungsten carbide
Impeller (2) Stainless Steel / AISI 316L	Motor adapter (6) Cast iron / ASTM Class 25	Mechanical seal (10) See Seal Section	Bushing for diffuser (14) Carbon
Diffuser (3) Stainless Steel / AISI 304	Wear ring (7) Technopolymer PPS	Elastomers (11) See Seal Section	Suction base (15) Stainless Steel / ASTM CF8M (AISI 316 cast)
Adapter (4) Cast iron / ASTM Class 35	Coupling (8) Cast iron / ASTM Class 25	Coupling protection (12) Stainless Steel / AISI 304	Tie rods (16) Stainless Steel / AISI 304
Strainer (17) Stainless Steel / AISI 316			
Screws (18) Stainless Steel / AISI 316			

Motor

Motor Name PLM 160 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	Efficiency (%) 92.9	Motor Vendor PLM
Shaft Diameter 42 mm	Voltage 380-415/660-690 V	cos phi 0.88	Weight 110 kg
L Shaft 110 mm	Speed 2940.0 rpm	Rated Current 32.7-19 A	

SVI4605-05S185T | Hydraulic Data & Performance Curve



Performance according to ISO 9906:2012

Selection

Series	Standby Pumps
e-SVI	No Standby Pump
Name	
SVI4605-05 2900rpm	
Stages	
5	
Frequency	
50 Hz	
Acceptance Grade	
Manufacturer's Standard	
System Type	
Single Pump	
Operating Pumps	
1	

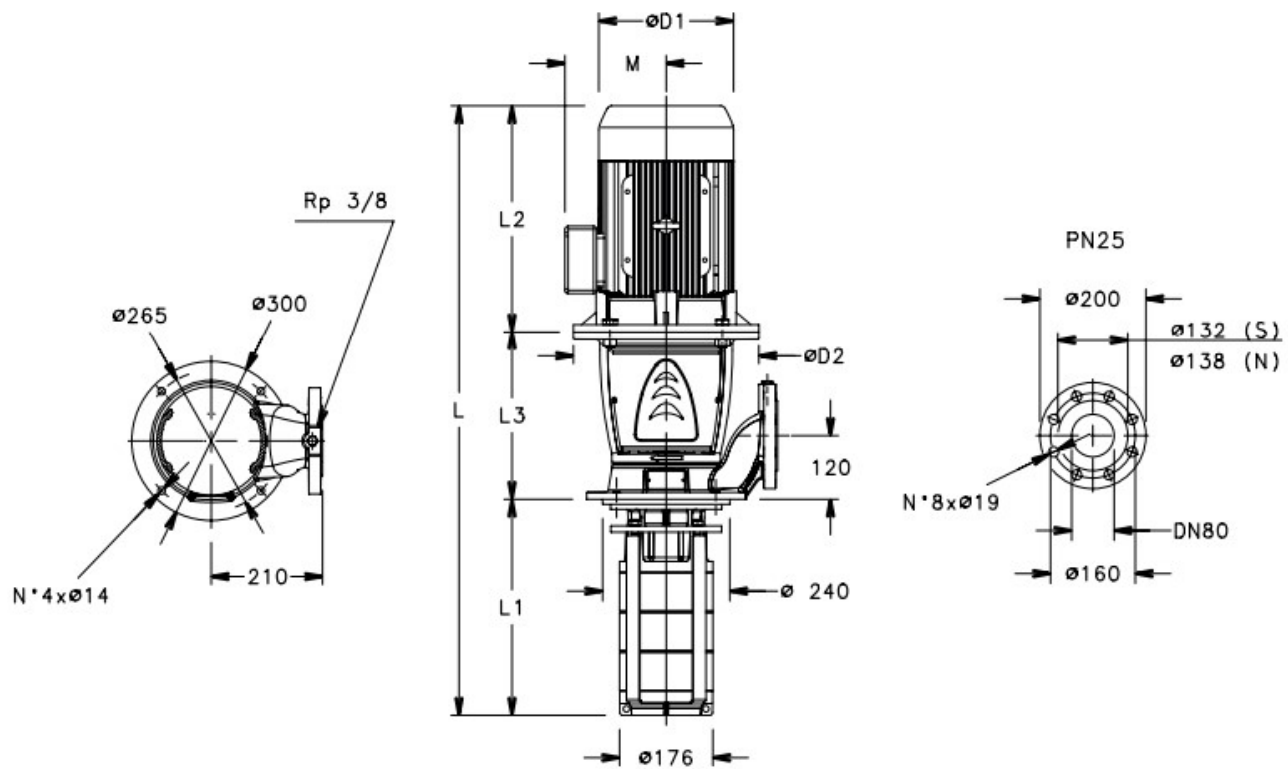
Fluid and Operating Conditions

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
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
125.09 m	13,168.63 mbar
H@QMax	Max P2
71.52 m	17.71 kW

SVI4605-05S185T | Dimensional Data & Drawing



Drawing is preliminary and is subject to change.

Dimensions

D1	L2	Total Weight
313 mm	494 mm	171 kg
D2	L3	
350 mm	317 mm	
L	M	
1368 mm	240 mm	
L1	Weight (Pump Only)	
557 mm	69 kg	