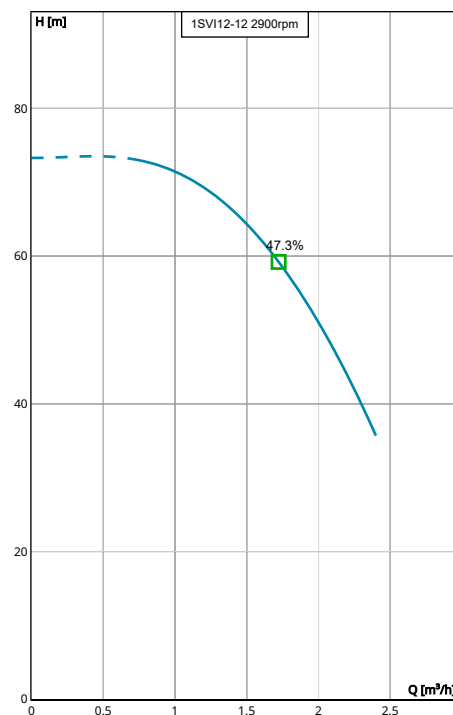


1SVI12-12CG007T5RQBV | Configuration Summary



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	12
Immersion Depth	Empty Stages Added
29.91 cm	0
Minimum Depth	Total Number Of Stages
29.91 cm	12
Maximum Depth	Pump Size
101.90 cm	1SVI

MATERIALS

Construction
Stainless Steel (AISI 304)

SEAL

Type of Seal	Rotating Face
Cartridge 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 SM	0.75 kW
Frequency (Hz)	Phase (~)
50	3
Poles	Voltage
2	220-240/380-415 V
Efficiency	
IE3	

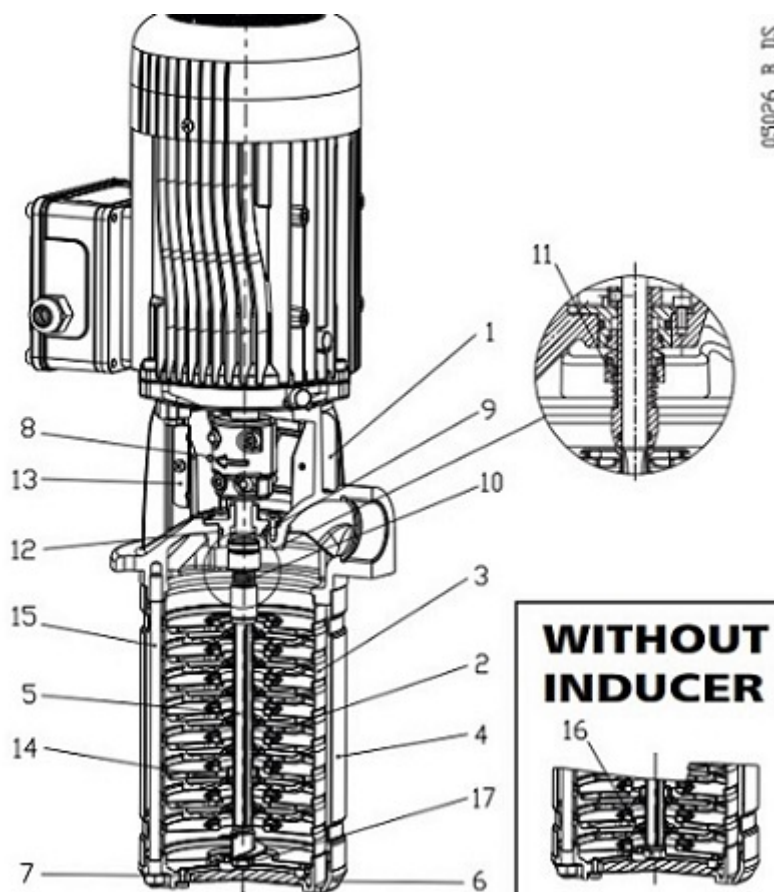
STANDARD OPTIONS

PTC Sensor	UL Approved (cURus)
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No

No

1SVI12-12CG007T5RQBV | Product Details



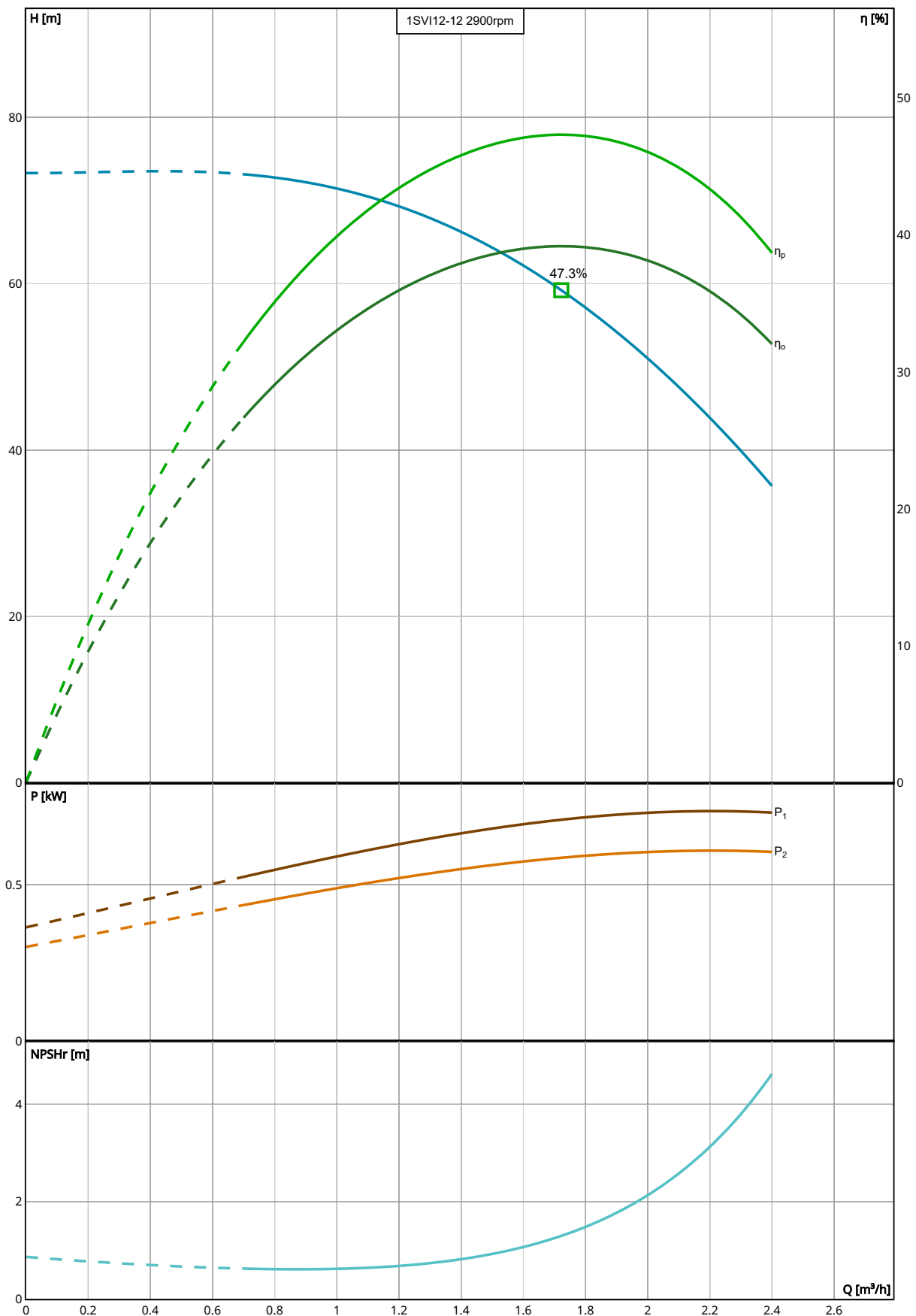
Construction Materials

Adapter (1) Cast iron / ASTM Class 35	Shaft (5) Stainless Steel / AISI 304	Removable seal housing (9) Stainless Steel / ASTM CF8M (AISI 316 cast)	Coupling protection (13) Stainless Steel / AISI 304
Impeller (2) Stainless Steel / AISI 304	Suction base (6) Stainless Steel / ASTM CF8M (AISI 316 cast)	Mechanical seal (10) See Seal Section	Shaft sleeve and bushing (14) Tungsten carbide
Diffuser (3) Stainless Steel / AISI 304	Strainer (7) Stainless Steel / AISI 316	Cartridge Seal (11) See Seal Section	Tie rods (15) Stainless Steel / AISI 316
Outer sleeve (4) Stainless Steel / AISI 316L	Coupling (8) Aluminium	Elastomers (12) See Seal Section	Screws (16) Stainless Steel / AISI 316
Inducer (17) Stainless Steel / ASTM CF8M (AISI 316 cast)			

Motor

Motor Name SM 80 B14 0.75 kW	Phase 3	IE Class IE3	Frame Size 80
Design IM B14	Rated power 0.75 kW	Enclosure IP 55	ICL F
Standard IEC	Service Factor 1	Efficiency (%) 82.8	Motor Vendor SM
Shaft Diameter 19 mm	Voltage 220-240/380-415 V	cos phi 0.78	Weight 9.6 kg
L Shaft 40 mm	Speed 2875.0 rpm	Rated Current 2.94-1.7 A	

1SVI12-12CG007T5RQBV | Hydraulic Data & Performance Curve



Performance according to ISO 9906:2012

Selection

Series	Standby Pumps
e-SVI	No Standby Pump
Name	
1SVI12-12 2900rpm	
Stages	
12	
Frequency	
50 Hz	
Acceptance Grade	
Manufacturer's Standard	
System Type	
Single Pump	
Operating Pumps	
1	

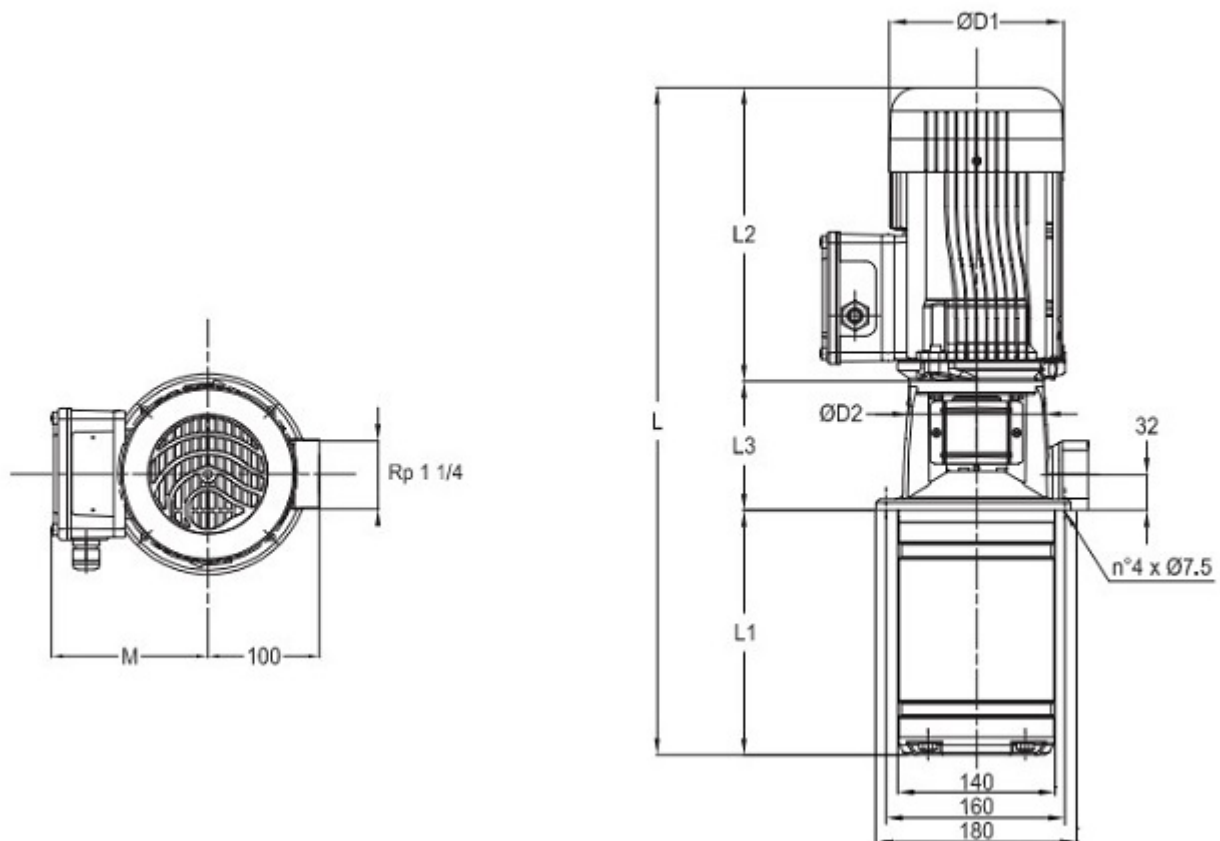
Fluid and Operating Conditions

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	47.33 %
Min Flow	BEP Flow
0.7 m ³ /h	1.72 m ³ /h
Max Flow	BEP Head
2.4 m ³ /h	59.21 m
H@QMin	Max Operating Pressure
73.15 m	7,199.29 mbar
H@QMax	Max P2
35.69 m	0.61 kW

1SVI12-12CG007T5RQB | Dimensional Data & Drawing



Drawing is preliminary and is subject to change.

Dimensions

D1	L2	Total Weight
155 mm	263 mm	20.7 kg
D2	L3	
120 mm	115.5 mm	
L	M	
697.5 mm	140 mm	
L1	Weight (Pump Only)	
319 mm	10.6 kg	