VERTICAL MULTISTAGE ELECTRIC PUMP WITH IMMERSIBLE HYDRAULIC

The e-SVI pump is a vertical axis multistage centrifugal pump with immersible hydraulic for the suction of liquids inside tanks.

The e-SVI pump is available in several hydraulic sizes, with rated flow rates from 1 to 92 m^3/h and a variable number of impeller alternatives, capable of dealing with a wide range of duty points.
Moreover, it can also be configured by adding empty stages, so that the length of the submerged section may be modified to reach the desired suction depth.

The e-SVI pump is available coupled with a standard motor using a coupling (C and M, S and N version).

The high efficiency hydraulic components, which ensure life savings during the whole life cycle, are designed for maximum reliability and, thanks to the 1 to 22 m^3/h impeller design, to also reduce the axial load on the motor.

SPECIFICATIONS

PUMP

- **Delivery**: up to 120 m^3/h.
- **Head**: up to 240 m.
- **Temperature** of pumped liquid with standard mechanical seal: from -10°C to +90°C
- Maximum **operating pressure**:
  - PN 25 (PN 16 for SVI 66 and 92 series)
- Hydraulic performance compliant with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A).
- Direction of rotation: clockwise looking at the pump from the top down (marked with an arrow on the adapter and on the coupling).

MOTOR

- Squirrel cage in short circuit, enclosed construction with external ventilation.
- **IP55 protection**.
- **Class 155 (F) insulation**.
- Performances according to EN 60034-1.
- Standard voltage:
  - Single-phase version: 220-240 V, 50 Hz.
  - Three-phase version:
    220-240/380-415 V, 50 Hz, for power up to 3 kW
    380-415/660-690 V, 50 Hz, for power above 3 kW

APPLICATIONS

- Cooling and lubricating circuits for tools (emulsions, cutting oil).
- Cooling systems (mixtures water-glycols in high quantity).
- Washing systems (mixtures water-detergents).

CONSTRUCTION

The hydraulic components are in stainless steel, while the pump body with the discharge port is available in both AISI 316 stainless steel and cast iron.

The mechanical seal for 1 to 22 m^3/h models with coupling can consist of either a strong cartridge construction (C version), or it can be traditional (M version for 1 to 22 m^3/h models and higher).
With motors with powers from 5.5 kW and higher, the traditional seal may be replaced without removing the motor from the pump.

e-SVI pumps can be supplied with integrated variable speed drive for the efficient management of the pump at different speeds.

CHARACTERISTICS OF 1, 3, 5, 10, 15, 22SVI SERIES

- The following versions are available:
  - C: version with coupling and cartridge mechanical seal.
  - M: version with coupling and standard mechanical seal according to EN 12756 (ex DIN 24960) and ISO 3069 for 1, 3, 5SVI series and 10, 15, 22SVI series (up to 4 kW).
- Possible choice of the following materials:
  - G: AISI 304 hydraulic components; cast iron body and discharge port.
  - N: AISI 316 hydraulic components, body and discharge port
- Reduced axial thrusts enable the use of standard motors that are easily found in the market.
- Liquid temperature between -30°C and +90°C, depending on the mechanical seal used.
- Minimum liquid level at the suction 20 mm.

CHARACTERISTICS OF SVI 33, 46, 66, 92 SERIES

- The following versions are available:
  - S: version with standard motor; impellers, diffusers, tie-rods, suction base and filter made entirely of stainless steel. Adapter and upper head in cast iron.
  - N: version with standard motor; made entirely of AISI 316 stainless steel.
- Delivery port can be coupled to counter-flanges, according to EN 1092.
- Balanced mechanical seal according to EN 12756 (ex DIN 24960) and ISO 3069, which can be replaced without removing the motor from the pump.
- Standard version for liquid temperatures ranging from -10°C and +90°C.

Inlet pressure of the pump plus static pressure of the water within the pump cannot exceed the nominal pressure (PN). Using different motors from those provided could limit inlet pressure.
In this event please contact customer services.

AVAILABLE ON REQUEST

Special versions are available to suit many applications.

- 4 poles version.
- Special voltages.
- Special materials for mechanical seals and gaskets.
- Horizontal installation.

GENERAL CHARACTERISTICS
e-SVI 2 POLES

		VERSION WITH COUPLING									
		1SVI	3SVI	5SVI	10SVI	15SVI	22SVI	SVI 33	SVI 46	SVI 66	SVI92
Max efficiency flow (m^3/h)		1,7	3	5,5	10,5	16,5	20,5	33	42	74	92
Flow range (m^3/h)	min	0,7	1,2	2,4	5	8	11	15	22	30	45
	max	2,4	4,4	8,5	14	24	29	40	60	85	120
Maximum head (m)		230	250	250	250	250	260	240	220	150	130
Motor power (kW)	min	0,37	0,37	0,37	0,75	1,1	1,1	2,2	3	4	5,5
	max	2,2	3	5,5	11	15	18,5	30	30	30	30
Max η (%) of pump		50	60	70	71	72	73	76.5	79	78	79.5
Standard temperature (°C)		-10 +90									

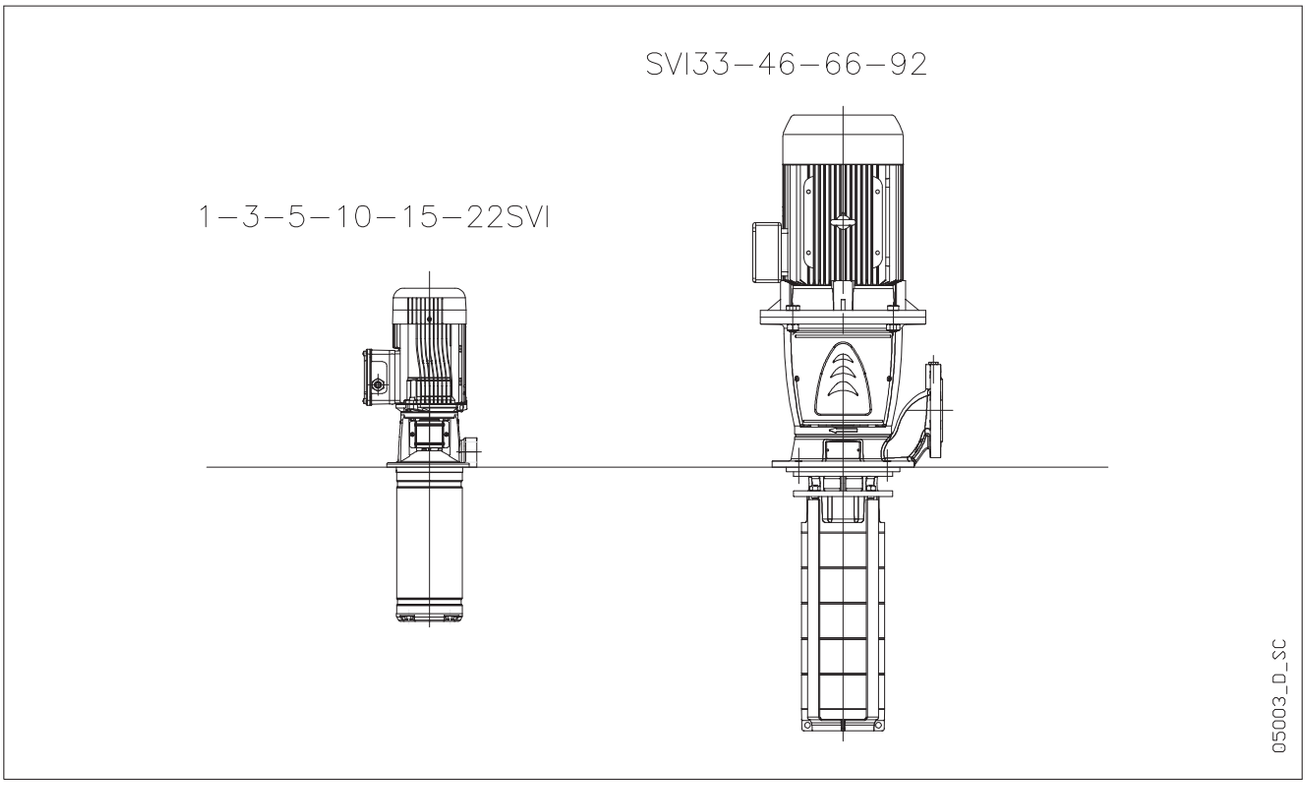
svi-2p50-en_d_tg

e-SVI VERSIONS

MODEL	TYPE OF MECHANICAL SEAL	HYDRAULIC COMPONENTS MATERIAL	BODY AND DISCHARGE PORT MATERIAL	DISCHARGE PORT DIMENSION
1-3-5SVI..CG	Cartridge	AISI 304	Cast iron	Threaded Rp 1 1/4
1-3-5SVI..CN				Threaded Rp 1 1/4
10-15-22SVI..CG		AISI 304	Cast iron	Threaded Rp 2
10-15-22SVI..CN				Threaded Rp 2
1-3-5SVI..MG	Standard	AISI 304	Cast iron	Threaded Rp 1 1/4
1-3-5SVI..MN				Threaded Rp 1 1/4
10-15-22SVI..MG				Threaded Rp 2
10-15-22SVI..MN		AISI 316	AISI 316	Threaded Rp 2
SVI33-46-66-92S				Flanged DN 80
SVI33-46-66-92N				Flanged DN 80

svi-vers-2p50-en_c_tc

VERSION DIAGRAM



TYPICAL APPLICATIONS

Thanks to its flexibility and reliability, the e-SVI pump is suitable for use in several industrial applications, from machine tools to filtering systems, to process control, and similar, even outside the industrial sector.
The pumps are suitable for handling clean fluids without abrasive substances or fibers.

APPLICATIONS

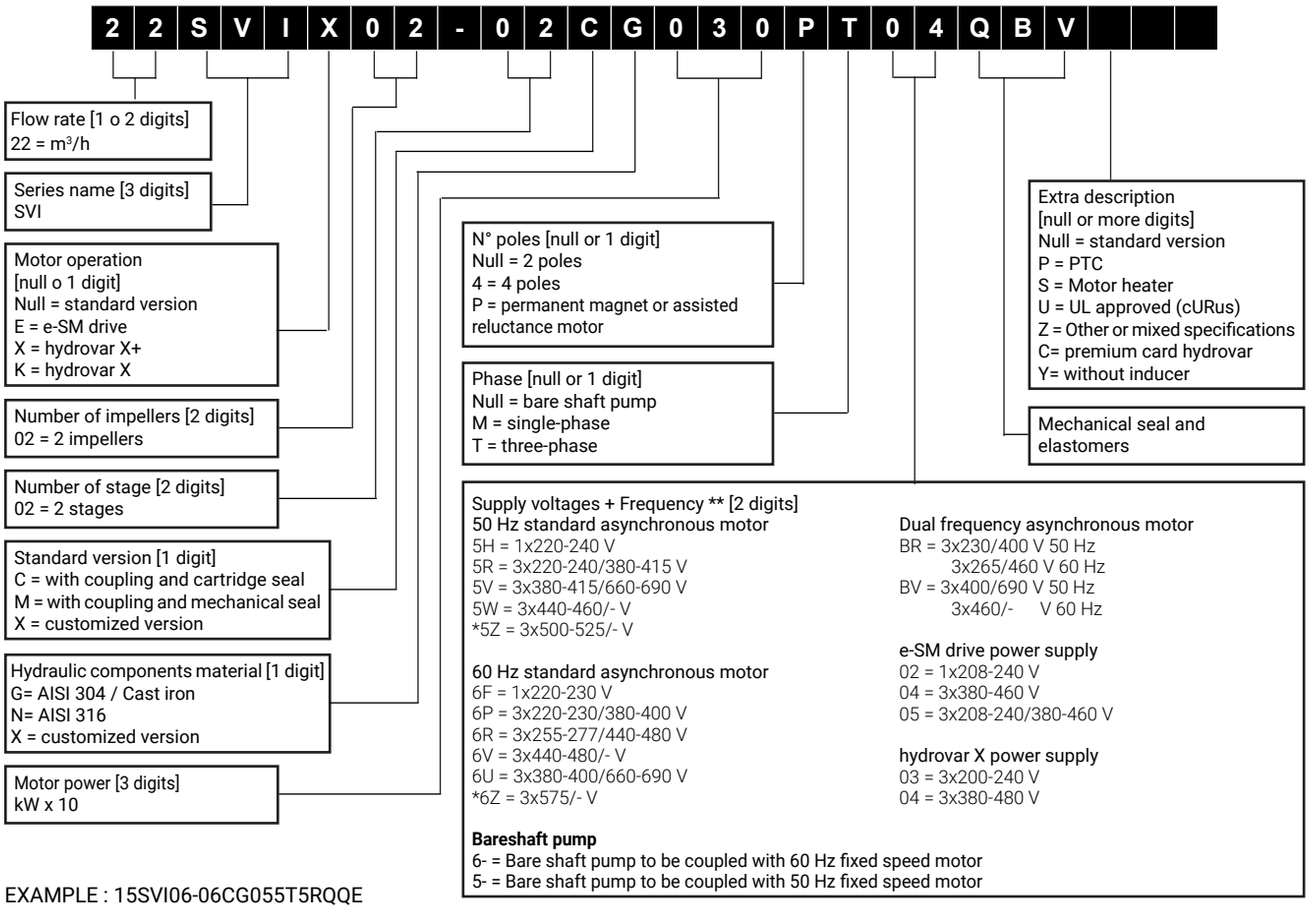
- Cooling circuits and tool lubrication.
- Cooling systems
- Process temperature control
- Industrial washing systems (degreasing of mechanical components).
- Clean liquid pressure boosting.
- Transfer of condensation.
- Filtering systems.
- Washing and cleaning systems (washing of wells, cars and trucks).
- Electronic industrial sector circuit washing.
- Commercial washers.

PUMPED LIQUID

- Coolants.
- Emulsions.
- Cutting oil.
- Condensation.
- Mixtures water-detergents.
- Mixtures water-glycols.

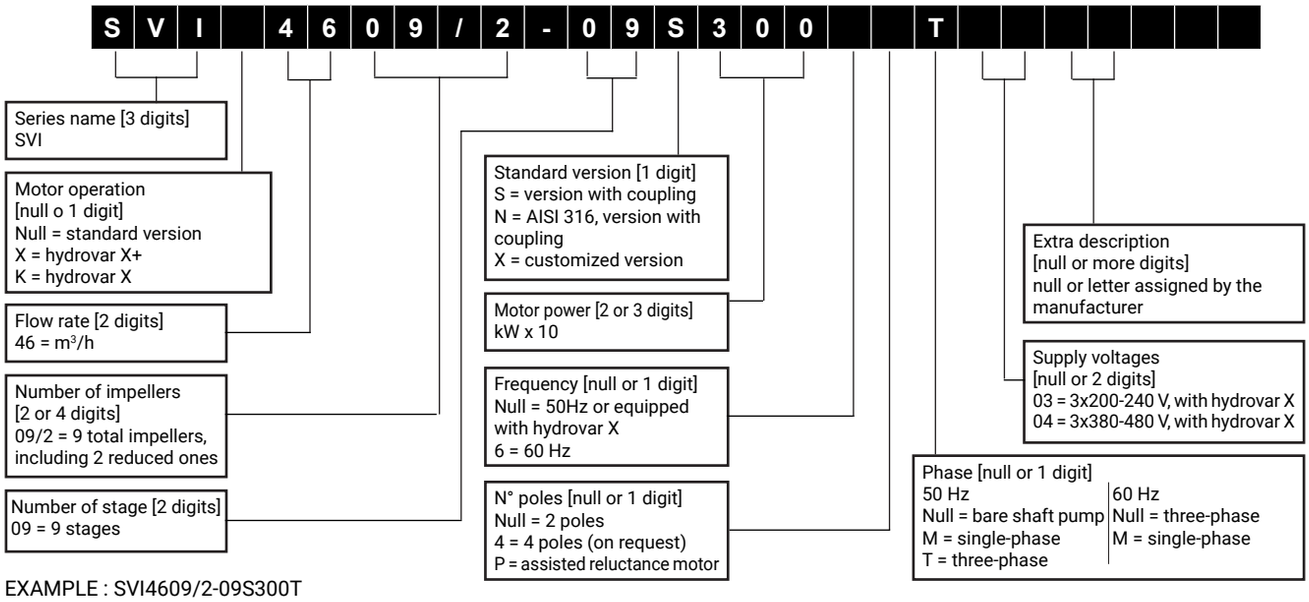
IDENTIFICATION CODE

1, 3, 5, 10, 15, 22SVI SERIES



EXAMPLE : 15SVI06-06CG055T5RQQE
e-SVI series electric pump, nominal flow 15 m³/h, number of impellers 6, number of stages 6, C version with coupling and cartridge mechanical seal, made of AISI 304, motor power 5,5 kW, 2 pole three-phase 50 Hz version, supply voltage 3x220-240/380-415 V, SiC-SiC-EPDM mech. seal.

SVI 33, 46, 66, 92 SERIES

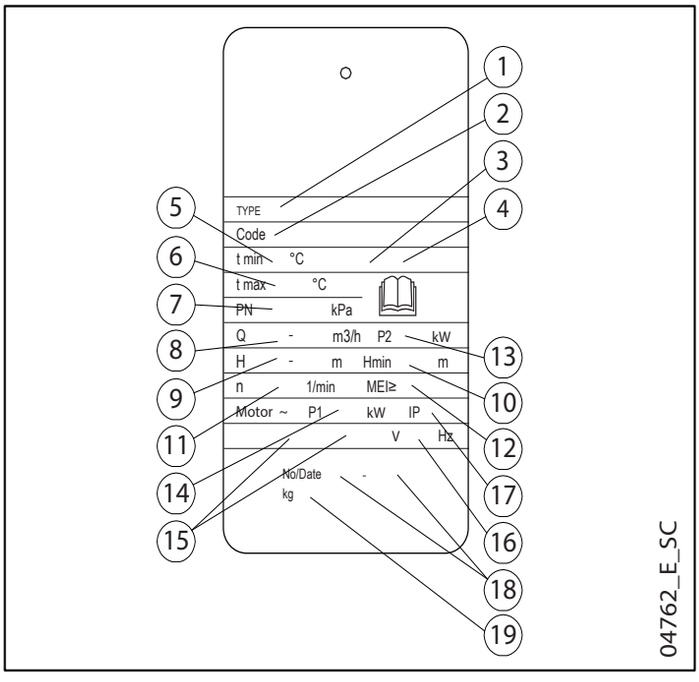


EXAMPLE : SVI4609/2-09S300T
SVI Series Electric pump, flow rate 46 m3/h, number of impellers 9 including 2 reduced ones, number of stages 9, S version with coupling, rated motor power 30 kW, 50 Hz version, three-phase.

* For uses other than EN 60335-2-41.
** For the available electrical voltage, please, see page 18.
For special configurations please contact the sales network.

RATING PLATE

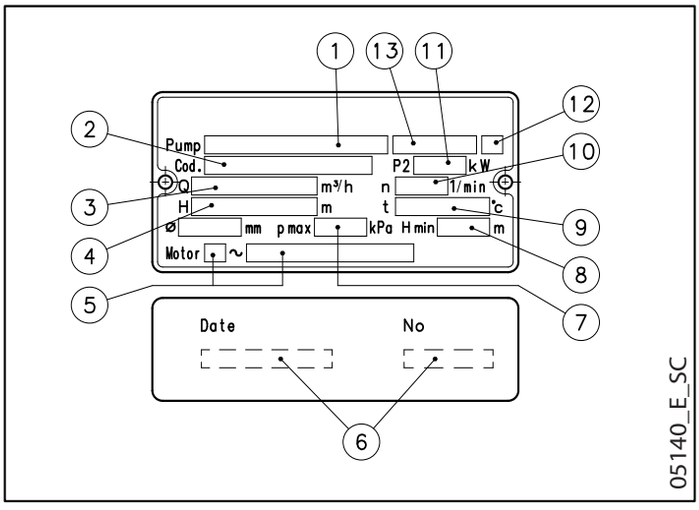
1, 3, 5, 10, 15, 22SVI (C, M)

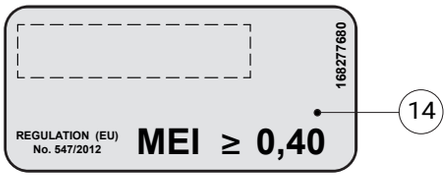


LEGEND

1 - Electric pump / Pump type
2 - Code
3 - Mechanical seal material identification code
4 - O-ring material identification code
5 - Minimum operating temperature[1]
6 - Maximum operating liquid temperature[1] (uses as EN 60335-2-41)
7 - Maximum operating pressure[1]
8 - Delivery range
9 - Head range
10 - Minimum head (EN 60335-2-41)
11 - Speed
12 - MEI (Regulation (EU) n. 547/2012)
13 - Motor nominal power
14 - Electric pump unit absorbed power[2]
15 - Rated voltage range[2]
16 - Frequency[2]
17 - Protection class[2]
18 - Serial number (date + progressive number)
19 - Weight

SVI 33, 46, 66, 92 (S, N)



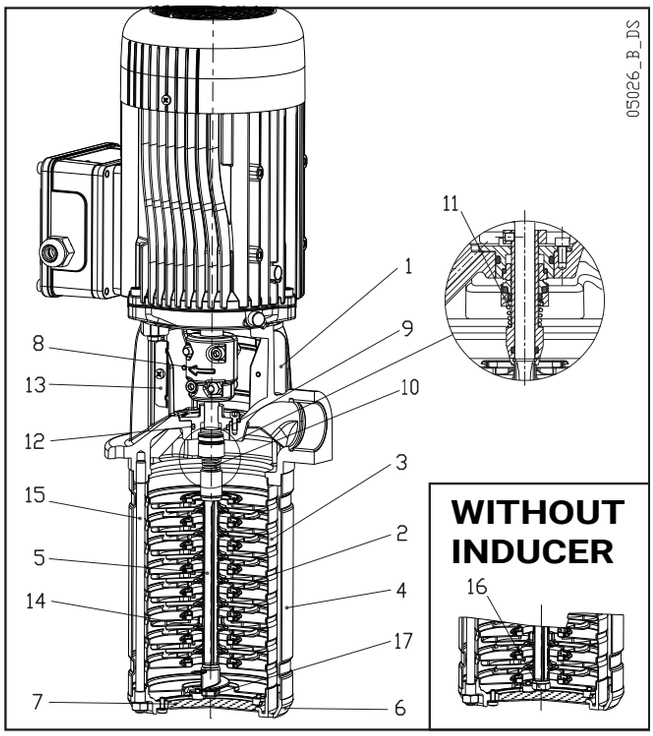


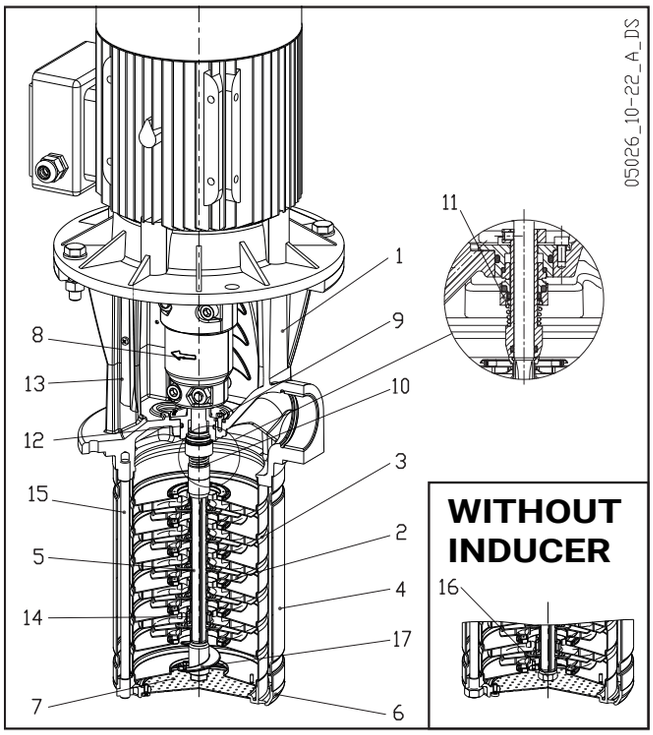
LEGEND

1 - Electric pump type
2 - Code
3 - Delivery range
4 - Head range
5 - Motor type[2]
6 - Date of manufacturing and serial number
7 - Maximum operating pressure[1]
8 - Minimum head
9 - Maximum operating temperature[1]
10 - Speed
11 - Rated power
12 - O-ring material identification code
13 - Mechanical seal material identification code
14 - MEI (Regulation (EU) n. 547/2012) accordingly to
value in the MEI column of the tables in the Hydraulic Performance section

[1] Pressure/temperature limit diagrams (pages 14-15).
[2] Only on the electric pump rating plate.

ELECTRIC PUMP CROSS SECTION AND MAIN COMPONENTS





G VERSION

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Adapter	Cast iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
2	Impeller	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
3	Diffuser	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
4	Outer sleeve	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Shaft	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
6	Suction base	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)
7	Strainer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Coupling	Aluminium	EN 1706-AC-AlSi11Cu2 (Fe) (AC46100)	-
9	Removable seal housing	Stainless steel	EN 10213-4-GX5CrNiMo19-10-2 (1.4308)	ASTM CF8M (AISI 316 cast)
10	Mechanical seal	Silicon carbide / Carbon / FKM* / AISI 316		
11	Cartrige seal	Silicon carbide / Carbon / FKM* / AISI 316		
12	Elastomers	FKM*		
13	Coupling protection	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
14	Shaft sleeve and bushing	Tungsten carbide		
15	Tie rods	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
16	Screws	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
17	Inducer	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)

svi1-22-s-en_a_tm

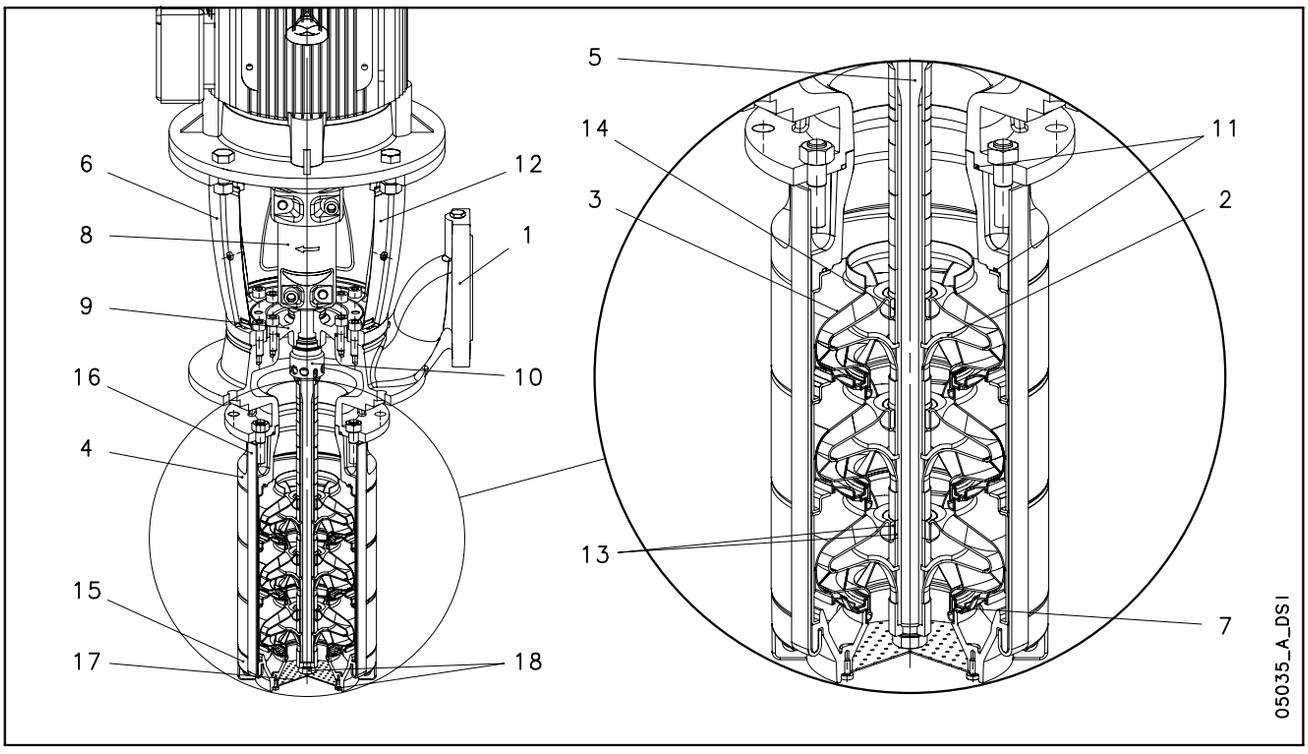
N VERSION

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Adapter	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)
2	Impeller	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
3	Diffuser	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Outer sleeve	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Shaft	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
6	Suction base	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)
7	Strainer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Coupling	Aluminium	EN 1706-AC-AlSi11Cu2 (Fe) (AC46100)	-
9	Removable seal housing	Stainless steel	EN 10213-4-GX5CrNiMo19-10-2 (1.4308)	ASTM CF8M (AISI 316 cast)
10	Mechanical seal	Silicon carbide / Carbon / FKM* / AISI 316		
11	Cartrige seal	Silicon carbide / Carbon / FKM* / AISI 316		
12	Elastomers	FKM*		
13	Coupling protection	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
14	Shaft sleeve and bushing	Tungsten carbide		
15	Tie rods	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
16	Screws	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
17	Inducer	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)

* Fluoro-elastomer: FPM (old ISO), FKM (ASTM & new ISO).

svi1-22-n-en_a_tm

ELECTRIC PUMP CROSS SECTION AND MAIN COMPONENTS



S VERSION

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Upper head	Cast iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
2	Impeller	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
3	Diffuser	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
4	Adapter	Cast iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
5	Shaft	Stainless steel	EN 10088-1 - X17CrNi16-2 (1.4057)	AISI 431
6	Motor adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
7	Wear ring	Technopolymer PPS		
8	Coupling	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
9	Seal housing	Cast iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
10	Mechanical seal	Silicon carbide / Carbon / FKM*		
11	Elastomers	FKM*		
12	Coupling protection	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
13	Shaft sleeve and bushing	Tungsten carbide		
14	Bushing for diffuser	Carbon		
15	Suction base	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)
16	Tie rods	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
17	Strainer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
18	Screws	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316

svi33-92-s-en_b_tm

N VERSION

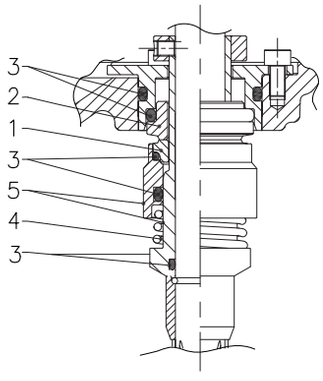
REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Upper head	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)
2	Impeller	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
3	Diffuser	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Adapter	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)
5	Shaft	Duplex stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	UNS S 31803
6	Motor adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
7	Wear ring	Technopolymer PPS		
8	Coupling	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
9	Seal housing	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)
10	Mechanical seal	Silicon carbide / Carbon / FKM*		
11	Elastomers	FKM*		
12	Coupling protection	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
13	Shaft sleeve and bushing	Tungsten carbide		
14	Bushing for diffuser	Carbon		
15	Suction base	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)
16	Tie rods	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
17	Strainer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
18	Screws	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316

svi33-92-n-en_b_tm

* Fluoro-elastomer: FPM (old ISO), FKM (ASTM & new ISO).

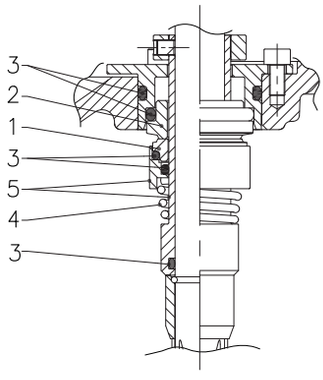
MECHANICAL SEAL, ACCORDING TO EN 12756

1, 3, 5SVI (all models)
10, 15, 22SVI ≤ 4 kW



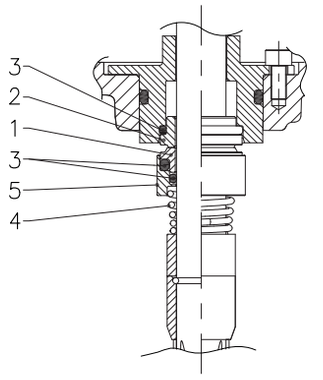
UNBALANCED CARTRIDGE SEAL

10, 15, 22SVI ≥ 5,5 kW



BALANCED CARTRIDGE SEAL

1, 3, 5SVI all models)
10, 15, 22SVI (all models)



UNBALANCED MECHANICAL SEAL

05113-C_A_DS

LIST OF MATERIALS

POSITION 1 - 2	POSITION 3	POSITION 4 - 5
Q_1 : Silicon Carbide	V : FKM (FPM)*	G : AISI 316
B : Resin impregnated carbon	E : EPDM	

* Fluoro-elastomer: FPM (old ISO), FKM (ASTM & new ISO).

svi-c_ten-mec-en_b_tm

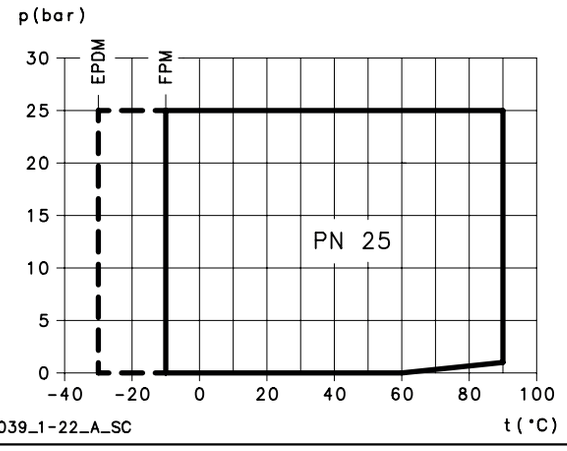
SEAL TYPES

TYPE	POSITION 1 ROTATING PART	2 STATIONARY PART	3 ELASTOMERS	4 SPRINGS	5 OTHER COMPONENTS	TEMPERATURE (°C)
STANDARD MECHANICAL SEAL						
Q_1 B V G G	Q_1	B	V	G	G	-10 +90
OTHER TYPES OF MECHANICAL SEAL						
Q_1 Q_1 V G G	Q_1	Q_1	V	G	G	-10 +90
Q_1 Q_1 E G G	Q_1	Q_1	E	G	G	-30 +90

svi-c_tipi-ten-mec-en_b_tc

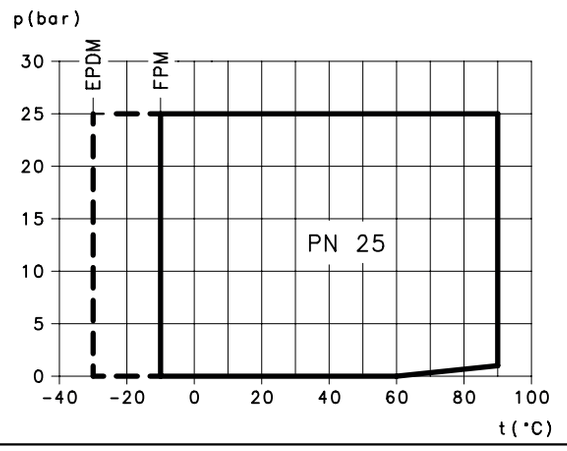
COMPLETE PUMP PRESSURE / TEMPERATURE OPERATING LIMITS

SVI G

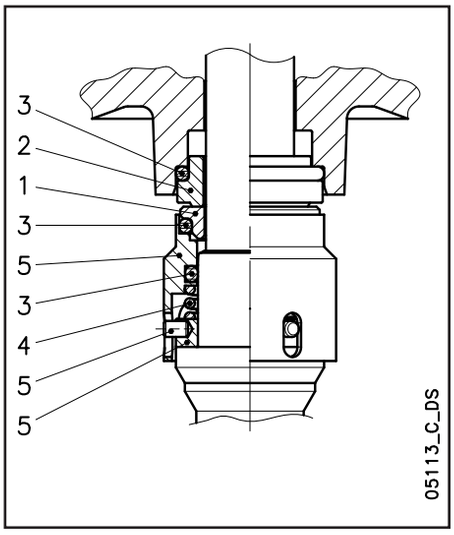


05039_1-22_A_SC

SVI N



MECHANICAL SEAL, ACCORDING TO EN 12756



LIST OF MATERIALS

POSITION 1 - 2	POSITION 3	POSITION 4 - 5
Q_1 : Silicon Carbide	V : FKM (FPM)*	G : AISI 316
B : Resin impregnated carbon	E : EPDM	
	T : PTFE	

* Fluoro-elastomer: FPM (old ISO), FKM (ASTM & new ISO).

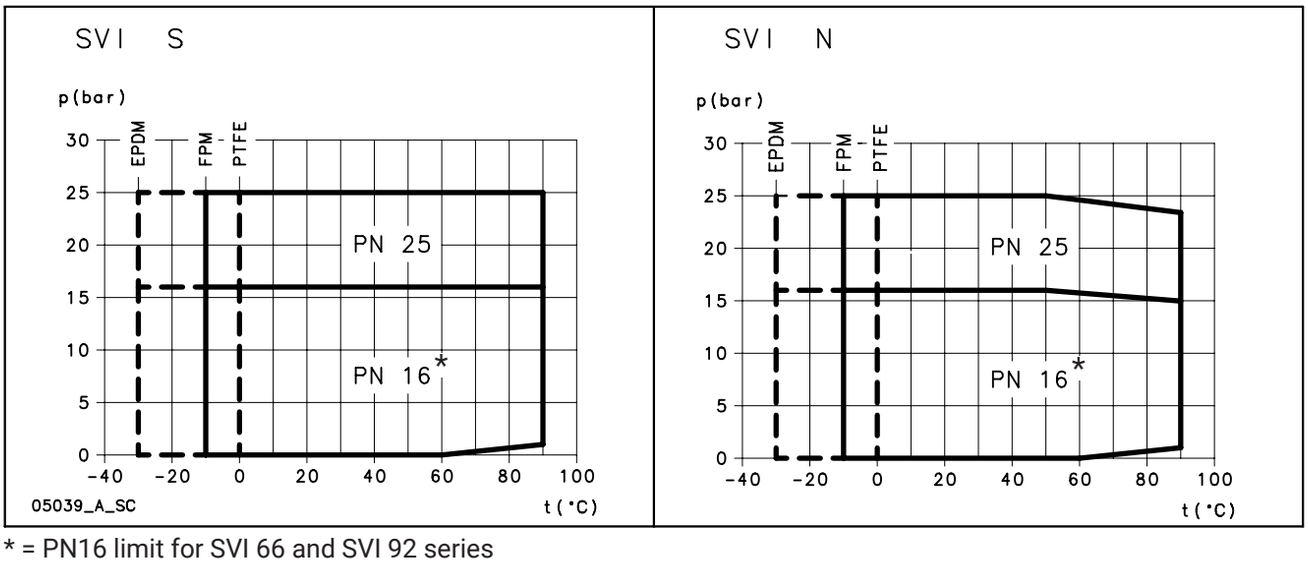
svi-s_ten-mec-en_d_tm

SEAL TYPES

TYPE	POSITION 1 ROTATING PART	2 STATIONARY PART	3 ELASTOMERS	4 SPRINGS	5 OTHER COMPONENTS	TEMPERATURE (°C)
STANDARD MECHANICAL SEAL						
Q_1 B V G G	Q_1	B	V	G	G	-10 +90
OTHER TYPES OF MECHANICAL SEAL						
Q_1 Q_1 V G G	Q_1	Q_1	V	G	G	-10 +90
Q_1 Q_1 E G G	Q_1	Q_1	E	G	G	-30 +90
Q_1 Q_1 T G G	Q_1	Q_1	T	G	G	0 +90

svi-s_tipi-ten-mec-en_c_tc

COMPLETE PUMP PRESSURE / TEMPERATURE OPERATING LIMITS



* = PN16 limit for SVI 66 and SVI 92 series

MOTORS (ErP 2009/125/EC)

- Short-circuit squirrel-cage motor, enclosed construction with external ventilation (TEFC).
- **IP 55** protection degree.
- Insulation class **155 (F)**.
- Electrical performances according to EN 60034-1.
- Supplied **single-phase** surface motors with **IE2** efficiency level.
- Supplied **three-phase** surface motors with **IE2** efficiency level (power < 0,75 kW) or **IE3** efficiency level (power ≥ 0,75 kW) as standard according to EN 60034-30:2009 and EN 60034-30-1:2014.
- Metric cable gland according to EN 50262.
- PTC included in motors with rated power 30 kW (one per phase, 155°C).
- **Single-phase** version:
  0,37 to 1,5 kW (2-pole)
  220-240 V 50 Hz
  Built-in automatic reset overload protection.
  Maximum ambient temperature: 45 °C.
- **Three-phase** version:
  0,37 to 30 kW (2-pole)
  220-240/380-415 V 50 Hz for power up to 3 kW.
  380-415/660-690 V 50 Hz for power above 3 kW.
  Overload protection to be provided by the user.
  Maximum ambient temperature: 50 °C,
  (40 °C for model with power of 0,37 kW)

From 1 July 2023 in accordance with the **Regulations (EU) 2019/1781 and 2021/341**, the three-phase 50 Hz, 60 Hz or 50/60 Hz **surface motors** with **power outputs ranging from 0,12 to 0,749 kW** must have a minimum level **IE2** efficiency; the ones with power outputs ranging **from 0,75 and 74,9 kW** must have a minimum level of **IE3** efficiency. The single-phase **surface motors** with **power outputs ranging from 0,12 kW** must have a minimum level **IE2** efficiency.

The following tables also contain the mandatory information pursuant to Annex I, section 2, of the aforementioned Regulations.

SINGLE-PHASE MOTORS AT 50 Hz, 2 POLES

P_N kW	MOTOR TYPE	IEC SIZE*	Construction Design	INPUT CURRENT In (A) 220-240 V	CAPACITOR µF	CAPACITOR V	DATA FOR 230 V 50 Hz VOLTAGE min^{-1}	Is / In	η %	cosφ	Tn Nm	Ts/Tn	Tm/Tn	OPERATING CONDITIONS ** Altitude asl m	T. amb min/max °C	ATEX
0,37	SM71RB14/1045 E2	71R	V18/B14	2,52-2,41	16	450	2820	3,46	69,5	0,99	1,25	0,72	2,15	≤1000	-15/45	No
0,55	SM71B14/1055 E2	71		3,33-3,19	16	450	2810	4,16	74,1	0,99	1,87	0,69	2,13			
0,75	SM80B14/1075 E2	80		4,38-4,27	25	450	2865	5,11	77,4	0,97	2,50	0,40	2,26			
1,1	SM80B14/1115 E2	80		6,26-5,93	30	450	2860	4,78	79,6	0,98	3,67	0,50	2,14			
1,5	PLM90B14/1155 E2	90		8,41-7,87	50	450	2890	6,71	81,3	0,97	4,95	0,59	2,78			

* R = Reduced size of motor casing as compared to shaft extension and flange.

1-22sv-motm_2p50-en_e_te

** Operating conditions related only to the motor. For the electric pump refer to the IOM.

THREE-PHASE MOTORS AT 50 Hz, 2 POLES

P_N kW	Model	IEC SIZE*	Construction Design	N. of Poles	f_N Hz	Data for 400 V / 50 Hz Voltage cosφ	Is / I_N	T_N Nm	Ts/T_N	Tm/Tn
0,37	SM71RB14/304/E	71R	V18/B14	2	50	0,64	4,35	1,37	4,14	4,10
0,55	SM71B14/305/E	71				0,71	6,25	1,84	3,96	3,97
0,75	SM80B14/307/E PE	80				0,78	7,38	2,48	3,57	3,75
1,1	SM80B14/311/E PE	80				0,79	8,31	3,63	3,95	3,95
1,5	SM90RB14/315/E PE	90R				0,80	8,80	4,96	4,31	4,10
2,2	PLM90B14/322 E3	90				0,80	8,77	7,28	3,72	3,70
3	PLM100RB14/330 E3	100R				0,79	7,81	9,93	4,26	3,94
4	PLM112RB14S6/340 E3	112R				0,85	9,13	13,2	3,82	4,32
5,5	PLM132RB5/355 E3	132R	V1/B5			0,85	10,5	18,1	4,74	5,11
7,5	PLM132B5/375 E3	132				0,85	10,2	24,4	3,43	4,76
11	PLM160RB5/3110 E3	160R				0,86	9,89	35,9	3,46	4,59
15	PLM160B5/3150 E3	160				0,88	9,51	48,6	2,73	4,32
18,5	PLM160B5S1/3185 E3	160				0,88	9,81	59,9	2,81	4,53
22	PLM180RB5S1/3220 E3	180R				0,85	10,9	71,1	3,26	5,12

P_N	Voltage U_N V											n_N	Operating conditions **		
	Δ			Y			Δ			Y			Altitude Above Sea Level (m)	T. amb min/max °C	ATEX
kW	220 V	230 V	240 V	380 V	400 V	415 V	380 V	400 V	415 V	660 V	690 V	I_N (A)	min^{-1}			
0,37	2,03	2,18	2,32	1,17	1,26	1,34	-	-	-	-	-	2745 ÷ 2800	≤ 1000	-15 / 40	No
0,55	2,46	2,49	2,56	1,42	1,44	1,48	-	-	-	-	-	2835 ÷ 2865		-15 / 50	
0,75	2,96	2,94	2,96	1,71	1,70	1,71	1,70	1,69	1,70	0,98	0,98	2875 ÷ 2895			
1,1	4,19	4,14	4,16	2,42	2,39	2,40	2,41	2,38	2,38	1,39	1,37	2870 ÷ 2900			
1,5	5,56	5,49	5,51	3,21	3,17	3,18	3,21	3,18	3,19	1,85	1,84	2870 ÷ 2895			
2,2	7,97	7,90	7,98	4,6	4,56	4,61	4,57	4,54	4,57	2,64	2,62	2880 ÷ 2900			
3	11,0	11,0	11,2	6,35	6,33	6,44	6,29	6,27	6,34	3,63	3,62	2865 ÷ 2895			
4	13,6	13,4	13,4	7,87	7,75	7,74	7,80	7,62	7,61	4,50	4,40	2885 ÷ 2910			
5,5	18,1	17,9	18,1	10,4	10,4	10,4	10,6	10,5	10,7	6,10	6,05	2880 ÷ 2910			
7,5	24,8	24,4	24,3	14,3	14,1	14,0	14,4	14,1	14,2	8,32	8,16	2920 ÷ 2935			
11	35,7	35,0	34,9	20,6	20,2	20,2	20,6	20,2	20,2	11,9	11,7	2910 ÷ 2930			
15	47,6	46,1	45,2	27,5	26,6	26,1	27,5	26,6	26,1	15,9	15,3	2940 ÷ 2950			
18,5	58,3	56,7	55,6	33,7	32,7	32,1	34,0	33,0	32,7	19,6	19,0	2940 ÷ 2950			
22	72,9	73,1	73,7	42,1	42,2	42,6	40,9	40,4	40,6	23,6	23,3	2950 ÷ 2960			

P_N	Efficiency η_N %																		IE
	Δ 220 V Y 380 V			Δ 230 V Y 400 V			Δ 240 V Y 415 V			Δ 380 V Y 660 V			Δ 400 V Y 690 V			Δ 415 V			
kW	4/4	3/4	2/4	4/4	3/4	2/4	4/4	3/4	2/4	4/4	3/4	2/4	4/4	3/4	2/4	4/4	3/4	2/4	
0,37	70,4	73,2	68,9	70,4	70,3	64,5	70,4	67,2	60,2	-	-	-	-	-	-	-	-	-	2
0,55	74,1	74,2	70,4	74,1	73,6	68,8	74,1	72,7	67,1	-	-	-	-	-	-	-	-	-	
0,75	82,5	83,1	81,3	82,8	82,7	80,1	82,6	82,0	78,9	82,5	82,0	78,9	82,5	82,0	78,9	82,5	82,0	78,9	3
1,1	84,0	84,7	83,4	84,4	84,5	82,5	84,3	84,0	81,4	84,0	84,0	81,4	84,0	84,0	81,4	84,0	84,0	81,4	
1,5	85,6	86,5	85,8	85,9	86,4	84,9	86,0	86,0	84,0	85,6	86,0	84,0	85,6	86,0	84,0	85,6	86,0	84,0	
2,2	86,5	87,4	86,8	86,4	86,9	85,7	86,6	86,7	85,0	86,4	86,7	85,0	86,4	86,7	85,0	86,4	86,7	85,0	
3	87,2	88,5	88,3	87,5	88,2	87,5	87,5	87,8	86,4	87,2	87,8	86,4	87,2	87,8	86,4	87,2	87,8	86,4	
4	89,1	90,1	89,2	89,1	90,1	89,2	89,1	90,1	89,2	89,1	90,3	90,4	89,6	90,4	89,9	89,6	90,1	89,2	
5,5	89,5	89,6	88,0	89,5	89,6	88,0	89,5	89,6	88,0	89,5	90,3	89,9	89,7	90,0	89,0	89,6	89,6	88,0	
7,5	90,6	90,5	89,0	90,6	90,5	89,0	90,6	90,5	89,0	90,6	91,0	90,2	90,8	90,8	89,6	90,7	90,5	89,0	
11	91,3	92,0	91,1	91,3	92,0	91,1	91,3	92,0	91,1	91,3	92,2	92,2	91,6	92,2	91,7	91,7	92,0	91,1	
15	92,5	92,4	91,2	92,5	92,4	91,2	92,5	92,4	91,2	92,7	93,3	92,9	93,1	93,3	92,7	92,5	92,4	91,2	
18,5	92,6	93,1	92,4	92,6	93,1	92,4	92,6	93,1	92,4	92,6	93,2	93,0	92,9	93,3	92,8	92,9	93,1	92,4	
22	93,0	92,7	91,3	93,0	92,7	91,3	93,0	92,7	91,3	93,0	93,2	92,4	93,1	93,0	91,9	93,0	92,7	91,3	

* R = Reduced size of motor casing as compared to shaft extension and flange.

svi-s-IE3-mott-2p50-en_c_te

** Operating conditions to be referred to motor only. About electric pump, refer to limits in user's manual.

THREE-PHASE MOTORS AT 50 Hz, 2 POLES

P_N kW	Manufacturer / Model	IEC SIZE	Construction Design	N. of Poles	f_N Hz	Data for 400 V / 50 Hz Voltage: cosφ	Is / I_N	T_N Nm	Ts/T_N	Tm/Tn
30	OMEGA MOTOR SANAYİ A.Ş. Dudullu Organize Sanayi Bölgesi 2. Cadde No: 10 34775 Ümraniye İSTANBUL/TURKEY Reg.No.913733 / 3MAS 200LA2 V1 30 kW E3	200	V1	2	50	0,89	7,80	96,9	2,60	3,10

P_N kW	Voltage U_N V: Δ 380 V	Δ 400 V	Δ 415 V	Y 660 V	Y 690 V	n_N min^{-1}	Operating conditions **: Altitude Above Sea Level (m)	T. amb min/max °C	ATEX
	I_N (A)								
30	55,3	52,2	50,8	31,8	30,3	2965	≤ 1000	-20 / 50	No

P_N kW	Efficiency hN % — Δ 380 V Y 660 V: 4/4	3/4	2/4	Δ 400 V Y 690 V: 4/4	3/4	2/4	Δ 415 V: 4/4	3/4	2/4	IE
30	93,0	93,1	93,0	93,3	93,5	93,4	93,4	93,6	93,4	3

** Operating conditions to be referred to motor only. About electric pump, refer to limits in user's manual.

svi-s-IE3-mott30-2p50-en_c_te

POWER LOSSES
THREE-PHASE MOTORS AT 50 Hz, 2 POLES

P_N kW	IEC Size	Phase	Power losses (PL) % P_n (% rated speed; % rated torque): 25;25	25;100	50;25	50;50	50;100	90;50	90;100	IE
0,37	63	~3	26,4%	34,6%	28,8%	30,5%	37,3%	35,9%	43,0%	2
0,55	71		15,3%	26,7%	17,5%	19,8%	29,0%	24,8%	34,2%	
0,75	80		7,8%	17,8%	9,2%	11,3%	19,5%	14,6%	23,4%	3
1,1	80		6,2%	15,2%	7,5%	9,4%	16,8%	12,5%	20,4%	
1,5	80		5,2%	13,5%	6,3%	8,0%	14,9%	10,5%	18,0%	
3	90		4,4%	12,2%	5,2%	6,8%	13,3%	8,8%	15,8%	
4	100		3,1%	10,3%	3,8%	5,3%	11,1%	6,8%	12,9%	
5,5	112		3,2%	9,3%	4,1%	5,4%	10,4%	7,3%	12,7%	
11	132		2,1%	7,3%	2,6%	3,7%	8,1%	5,0%	9,8%	

SVI_2P50-pl-en_a_te

AVAILABLE VOLTAGES OF MOTORS FOR e-SVI SERIES

	SINGLE-PHASE	
	50 Hz	60 Hz
P_N kW	1 x 220-240	1 x 220-230
0.37	s	s
0.55	s	s
0.75	s	s
1.1	s	s
1.5	s	s

	THREE-PHASE										
	50 Hz				60 Hz					50/60 Hz	
P_N kW	3 x 220-230-240/380-400-415	3 x 380-400-415/660-690	3 x 440-460/-	3 x 500-525/-	3 x 220-230/380-400	3 x 255-265-277/440-460-480	3 x 380-400/660-690	3 x 440-460-480/-	3 x 575/-	3 x 230/400 50 Hz 3 x 265/460 60 Hz	3 x 400/690 50 Hz 3 x 460/- 60 Hz
0.37	s	o	o	o	s	o	o	o	o	o	o
0.55	s	o	o	o	s	o	o	o	o	o	o
0.75	s	o	o	o	s	o	o	o	o	o	o
1.1	s	o	o	o	s	o	o	o	o	o	o
1.5	s	o	o	o	s	o	o	o	o	o	o
2.2	s	o	o	o	s	o	o	o	o	o	o
3	s	o	o	o	s	o	o	o	o	o	o
4	o	s	o	o	s	o	o	o	o	o	o
5.5	o	s	o	o	s	o	o	o	o	o	o
7.5	o	s	o	o	s	o	o	o	o	o	o
11	o	s	o	o	s	o	o	o	o	o	o
15	o	s	o	o	s	o	o	o	o	o	o
18.5	o	s	o	o	s	o	o	o	o	o	o
22	o	s	o	o	s	o	o	o	o	o	o

s = Standard voltage, o = Voltage upon request

sv-volt-lowa-en_d_te

Please contact the sales network to check other available voltages.

Tolerances on nominal voltages

- **50 Hz**:
  ± 10% on the single voltage value shown on the rating plate.
  ± 5% on voltage range shown on the rating plate.
- **60 Hz**:
  ± 10% on the voltage values shown on the rating plate.

NOISE OF THREE-PHASE 50 Hz, 2 POLES MOTORS

POWER kW	MOTOR TYPE IEC SIZE*	NOISE LpA dB
0.37	71R	<70
0.55	71	<70
0.75	80R	<70
1.1	80	<70
1.5	90R	<70
2.2	90R	<70
3	100R	<70
4	112R	<70
5.5	132R	<70
7.5	132	71
11	160R	73
15	160	71
18.5	160	73
22	180R	70
30	200	72

*R=Reduced motor casing size with respect to shaft extension and related flange.

svi_mott-en_f_tr

The tables below show the mean sound pressure levels (Lp) measured at 1 meter distance in a free field according to EN ISO 11203. The noise values are measured on 50 Hz motors and have a tolerance of 3 dB (A) according to EN ISO 4871.

HYDRAULIC PERFORMANCE RANGE AT 50 Hz, 2 POLES

SVI	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B

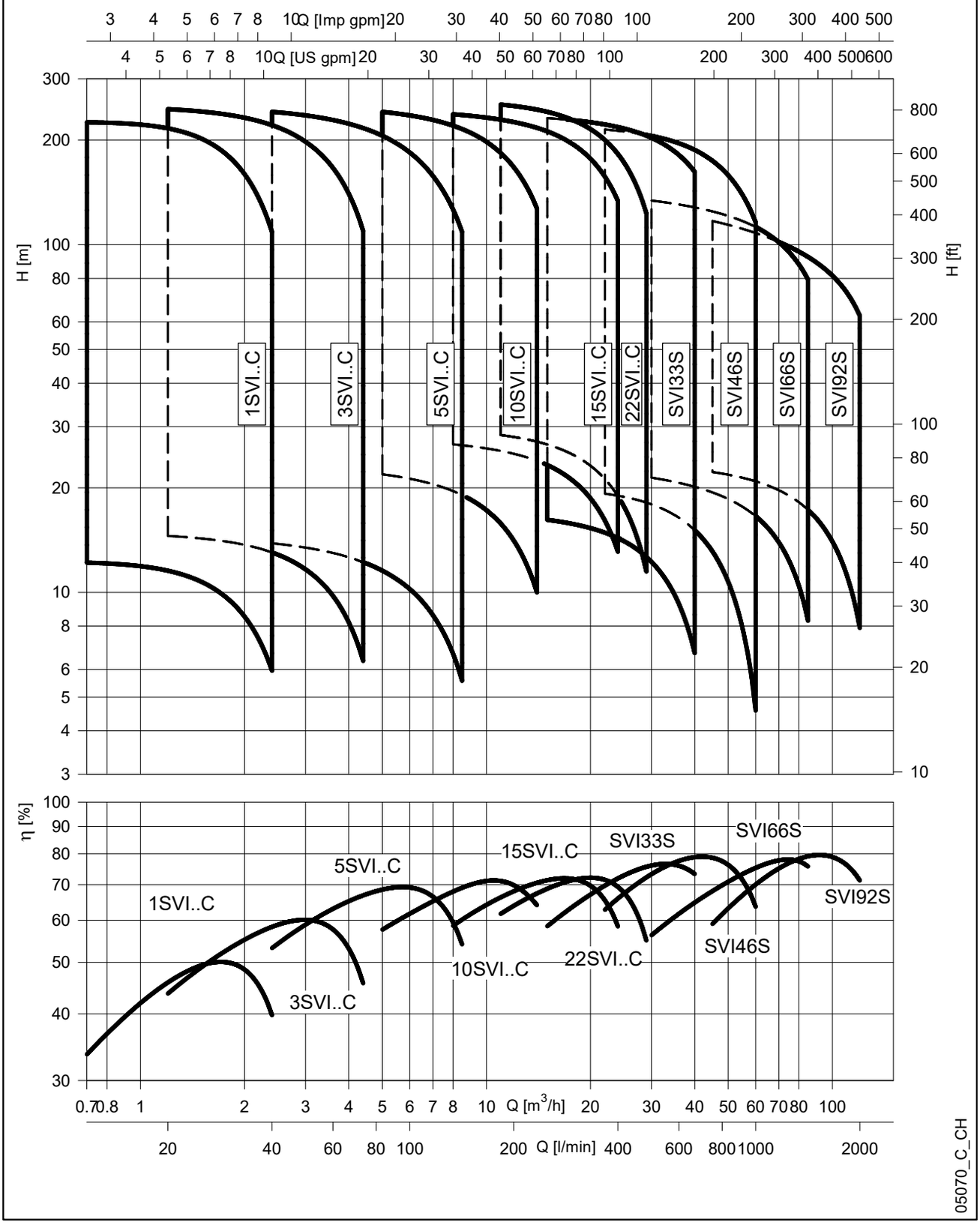


TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 2 POLES

PUMP TYPE SVI..C / SVI..M	RATED POWER kW	RATED POWER HP	MEI ≥	Q = DELIVERY l/min 0	12	20	25	30	35	40	45	50	60	73	100	120	141
				m^3/h 0	0,7	1,2	1,5	1,8	2,1	2,4	2,7	3,0	3,6	4,4	6,0	7,2	8,5
				H = TOTAL HEAD IN METRES OF COLUMN OF WATER													
1SVI02-02..	0,37	0,5	0,70	12,2	12,2	11,5	10,7	9,5	7,9	6,0							
1SVI03-03..	0,37	0,5	0,70	18,0	18,0	17,0	15,7	13,8	11,4	8,4							
1SVI04-04..	0,37	0,5	0,70	23,7	23,5	22,1	20,4	17,9	14,6	10,6							
1SVI05-05..	0,37	0,5	0,70	29,3	28,9	27,0	24,8	21,6	17,4	12,5							
1SVI06-06..	0,37	0,5	0,70	34,8	34,2	31,7	28,9	25,0	20,0	14,0							
1SVI07-07..	0,37	0,5	0,70	40,2	39,2	36,1	32,7	28,1	22,2	15,2							
1SVI08-08..	0,55	0,75	0,70	48,1	47,9	45,2	41,8	36,8	30,4	22,4							
1SVI09-09..	0,55	0,75	0,70	53,7	53,4	50,4	46,4	40,8	33,5	24,6							
1SVI10-10..	0,55	0,75	0,70	59,4	59,0	55,5	51,0	44,7	36,6	26,6							
1SVI11-11..	0,55	0,75	0,70	65,1	64,5	60,4	55,5	48,5	39,5	28,5							
1SVI12-12..	0,75	1	0,70	73,3	73,1	69,3	64,3	57,1	47,6	35,7							
1SVI13-13..	0,75	1	0,70	79,2	78,9	74,8	69,4	61,6	51,2	38,2							
1SVI15-15..	0,75	1	0,70	90,9	90,5	85,6	79,3	70,1	58,1	43,1							
1SVI17-17..	1,1	1,5	0,70	105,2	104,9	100,0	93,1	82,6	68,6	51,2							
1SVI19-19..	1,1	1,5	0,70	117,0	116,7	111,0	103,2	91,5	75,8	56,3							
1SVI22-22..	1,1	1,5	0,70	134,6	134,1	127,4	118,1	104,4	86,1	63,5							
1SVI25-25..	1,5	2	0,70	152,6	152,4	145,5	135,4	120,0	99,1	72,7							
1SVI27-27..	1,5	2	0,70	164,3	164,0	156,4	145,4	128,8	106,1	77,5							
1SVI30-30..	1,5	2	0,70	181,7	181,3	172,6	160,1	141,2	115,7	83,9							
1SVI32-32..	2,2	3	0,70	197,2	197,1	188,4	175,8	156,5	130,0	96,3							
1SVI34-34..	2,2	3	0,70	209,2	208,9	199,8	186,3	165,5	137,1	101,2							
1SVI37-37..	2,2	3	0,70	225,9	224,9	216,1	201,9	179,3	148,1	108,7							
3SVI02-02..	0,37	0,5	0,70	14,9		14,5	14,3	14,0	13,5	13,0	12,4	11,7	9,8	6,5			
3SVI03-03..	0,37	0,5	0,70	22,0		21,2	20,8	20,3	19,6	18,7	17,7	16,6	13,7	8,6			
3SVI04-04..	0,37	0,5	0,70	28,9		27,7	27,1	26,2	25,2	23,9	22,5	20,8	16,8	10,1			
3SVI05-05..	0,55	0,75	0,70	37,2		36,4	35,8	35,0	33,9	32,6	31,1	29,2	24,5	16,2			
3SVI06-06..	0,55	0,75	0,70	44,4		43,4	42,6	41,6	40,2	38,6	36,6	34,3	28,5	18,5			
3SVI07-07..	0,75	1	0,70	52,5		51,8	51,0	50,0	48,7	47,0	45,0	42,5	36,1	24,6			
3SVI08-08..	0,75	1	0,70	60,0		59,1	58,2	57,0	55,4	53,4	51,0	48,1	40,7	27,5			
3SVI09-09..	1,1	1,5	0,70	67,7		66,8	65,8	64,5	62,8	60,6	57,9	54,6	46,4	31,6			
3SVI10-10..	1,1	1,5	0,70	75,0		73,8	72,7	71,3	69,3	66,9	63,8	60,2	51,0	34,5			
3SVI11-11..	1,1	1,5	0,70	82,3		81,0	79,7	78,0	75,8	73,1	69,7	65,7	55,5	37,4			
3SVI12-12..	1,1	1,5	0,70	89,6		87,8	86,4	84,5	82,1	79,1	75,5	71,1	59,9	40,1			
3SVI13-13..	1,5	2	0,70	98,1		96,7	95,4	93,5	91,0	87,8	83,9	79,2	67,2	45,6			
3SVI14-14..	1,5	2	0,70	105,6		104,1	102,5	100,4	97,7	94,2	89,9	84,8	71,8	48,5			
3SVI16-16..	1,5	2	0,70	119,9		117,8	116,1	113,6	110,5	106,5	101,6	95,8	80,9	54,2			
3SVI19-19..	2,2	3	0,70	144,3		142,3	140,3	137,5	133,9	129,2	123,5	116,7	99,1	67,6			
3SVI21-21..	2,2	3	0,70	159,3		156,9	154,6	151,4	147,3	142,1	135,7	128,0	108,5	73,6			
3SVI23-23..	2,2	3	0,70	174,0		171,1	168,5	165,0	160,4	154,7	147,6	139,2	117,7	79,4			
3SVI25-25..	2,2	3	0,70	188,5		186,1	183,3	179,3	174,1	167,6	159,7	150,3	126,6	84,8			
3SVI27-27..	3	4	0,70	204,4		201,7	198,8	194,7	189,4	182,7	174,4	164,5	139,4	94,4			
3SVI29-29..	3	4	0,70	219,3		216,0	212,8	208,3	202,6	195,3	186,4	175,7	148,6	100,2			
3SVI31-31..	3	4	0,70	233,8		230,3	226,8	222,0	215,7	207,8	198,2	186,7	157,6	106,0			
3SVI33-33..	3	4	0,70	248,5		245,3	241,5	236,2	229,3	220,7	210,2	197,7	166,3	111,2			
5SVI02-02..	0,37	0,5	0,70	14,8						13,8	13,7	13,4	13,0	12,2	10,2	8,2	5,7
5SVI03-03..	0,55	0,75	0,70	22,8						21,8	21,6	21,3	20,7	19,7	16,9	14,1	10,3
5SVI04-04..	0,55	0,75	0,70	30,0						28,2	27,9	27,5	26,6	25,2	21,2	17,3	12,2
5SVI05-05..	0,75	1	0,70	38,0						36,4	36,0	35,5	34,5	32,9	28,2	23,5	17,1
5SVI06-06..	1,1	1,5	0,70	45,3						43,7	43,3	42,8	41,6	39,6	33,9	28,1	20,3
5SVI07-07..	1,1	1,5	0,70	52,7						50,7	50,1	49,5	48,1	45,8	39,1	32,2	23,1
5SVI08-08..	1,1	1,5	0,70	60,1						57,6	57,0	56,2	54,6	51,8	44,1	36,2	25,8
5SVI09-09..	1,5	2	0,70	68,0						65,5	64,8	64,0	62,2	59,3	50,6	41,9	30,2
5SVI10-10..	1,5	2	0,70	75,5						72,4	71,7	70,8	68,7	65,4	55,7	46,0	33,0
5SVI11-11..	1,5	2	0,70	82,8						79,3	78,4	77,5	75,2	71,4	60,7	49,9	35,6
5SVI12-12..	2,2	3	0,70	90,8						88,0	87,0	86,0	83,4	79,3	67,4	55,7	40,5
5SVI13-13..	2,2	3	0,70	98,3						95,0	94,0	92,8	90,0	85,5	72,6	59,9	43,5
5SVI14-14..	2,2	3	0,70	105,7						102,0	100,9	99,6	96,6	91,7	77,8	64,0	46,3
5SVI15-15..	2,2	3	0,70	113,1						109,0	107,8	106,4	103,1	97,8	82,8	68,1	49,1
5SVI16-16..	2,2	3	0,70	120,5						115,9	114,6	113,1	109,6	103,9	87,8	72,1	51,8
5SVI18-18..	3	4	0,70	135,8						131,1	129,7	128,0	124,1	117,8	99,9	82,3	59,5
5SVI21-21..	3	4	0,70	157,9						152,0	150,3	148,3	143,6	136,1	114,9	94,2	67,6
5SVI23-23..	4	5,5	0,70	174,4						168,9	167,2	165,1	160,2	152,3	129,6	107,2	78,2
5SVI25-25..	4	5,5	0,70	189,2						183,1	181,1	178,9	173,5	164,8	140,1	115,7	84,1
5SVI28-28..	4	5,5	0,70	211,5						204,2	201,9	199,4	193,3	183,4	155,5	128,0	92,7
5SVI30-30..	5,5	7,5	0,70	227,0						219,8	217,5	214,8	208,4	198,1	168,5	139,3	101,5
5SVI33-33..	5,5	7,5	0,70	249,2						241,0	238,4	235,5	228,4	216,9	184,2	151,9	110,3

Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A)

1-5svi-c-2p50-en_b_th

TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 2 POLES

PUMP TYPE SVI..C / SVI..M	RATED POWER kW	RATED POWER HP	MEI ≥	Q = DELIVERY l/min 0	83,34	100	133	170	183,3	233	270	330	350	400	430	460	483,3
				m^3/h 0	5,0	6,0	8,0	10,2	11,0	14,0	16,2	19,8	21,0	24,0	25,8	27,6	29,0
				H = TOTAL HEAD IN METRES OF COLUMN OF WATER													
10SVI02-02..	0,75	1	0,70	23,6	21,9	21,3	19,6	17,0	15,8	10,0							
10SVI03-03..	1,1	1,5	0,70	35,7	33,0	32,1	29,6	25,8	24,1	16,0							
10SVI04-04..	1,5	2	0,70	47,7	44,2	43,0	39,9	34,8	32,6	21,7							
10SVI05-05..	2,2	3	0,70	60,0	56,1	54,7	50,9	44,9	42,2	29,0							
10SVI06-06..	2,2	3	0,70	71,8	66,8	65,0	60,4	53,1	49,8	33,9							
10SVI07-07..	3	4	0,70	83,6	78,3	76,2	70,8	62,1	58,3	39,8							
10SVI08-08..	3	4	0,70	95,3	88,9	86,5	80,1	70,2	65,7	44,5							
10SVI09-09..	4	5,5	0,70	106,3	100,1	97,5	90,8	80,0	75,1	52,1							
10SVI10-10..	4	5,5	0,70	118,0	110,8	107,9	100,3	88,2	82,8	57,2							
10SVI11-11..	4	5,5	0,70	129,6	121,3	118,1	109,6	96,3	90,3	62,1							
10SVI13-13..	5,5	7,5	0,70	156,0	146,5	142,7	132,6	116,4	109,2	74,3							
10SVI15-15..	5,5	7,5	0,70	179,5	167,9	163,4	151,6	132,8	124,3	83,9							
10SVI17-17..	7,5	10	0,70	205,0	193,2	188,5	175,7	154,7	145,2	98,8							
10SVI18-18..	7,5	10	0,70	216,9	204,2	199,1	185,5	163,2	153,1	104,0							
10SVI20-20..	7,5	10	0,70	240,6	226,0	220,3	205,0	180,2	168,9	114,3							
10SVI21-21..	11	15	0,70	253,6	241,0	235,5	220,2	195,0	183,5	127,5							
15SVI02-02..	2,2	3	0,70	28,7			26,7	25,9	25,5	23,9	22,4	18,9	17,4	13,1			
15SVI03-03..	3	4	0,70	43,3			40,4	39,1	38,6	36,2	33,8	28,7	26,5	20,1			
15SVI04-04..	4	5,5	0,70	58,4			54,7	53,1	52,5	49,4	46,3	39,7	36,9	28,7			
15SVI05-05..	4	5,5	0,70	72,7			67,8	65,8	65,0	61,0	57,1	48,7	45,2	34,9			
15SVI06-06..	5,5	7,5	0,70	87,6			81,5	79,4	78,4	74,1	69,9	60,3	56,3	44,2			
15SVI07-07..	5,5	7,5	0,70	101,9			94,5	91,9	90,8	85,7	80,6	69,4	64,7	50,5			
15SVI08-08..	7,5	10	0,70	117,4			110,9	108,0	106,8	100,8	94,9	82,0	76,7	60,6			
15SVI09-09..	7,5	10	0,70	131,9			124,4	121,0	119,6	112,8	106,1	91,5	85,5	67,4			
15SVI10-10..	11	15	0,70	147,7			138,8	135,3	133,8	126,7	119,6	103,9	97,4	77,5			
15SVI11-11..	11	15	0,70	162,3			152,4	148,5	146,8	138,9	131,1	113,8	106,5	84,7			
15SVI13-13..	11	15	0,70	191,3			179,2	174,5	172,5	163,1	153,7	133,1	124,5	98,6			
15SVI15-15..	15	20	0,70	222,1			209,9	204,8	202,6	192,2	181,7	158,3	148,5	118,8			
15SVI17-17..	15	20	0,70	251,6			237,3	231,4	228,9	216,9	205,0	178,4	167,3	133,6			
22SVI02-02..	2,2	3	0,70	30,4					28,4	27,2	26,0	23,3	22,2	18,9	16,6	13,8	11,5
22SVI03-03..	3	4	0,70	45,4					42,2	40,4	38,5	34,5	32,8	27,8	24,2	20,2	16,6
22SVI04-04..	4	5,5	0,70	60,9					56,8	54,4	51,9	46,6	44,4	37,9	33,1	27,7	23,0
22SVI05-05..	5,5	7,5	0,70	76,0					70,9	67,9	64,9	58,3	55,6	47,4	41,4	34,7	28,8
22SVI06-06..	7,5	10	0,70	93,2					88,8	85,7	82,5	75,4	72,4	63,3	56,7	49,1	42,6
22SVI07-07..	7,5	10	0,70	108,5					103,1	99,4	95,7	87,2	83,7	73,1	65,3	56,5	48,8
22SVI08-08..	11	15	0,70	124,6					119,2	115,2	111,0	101,6	97,7	85,7	77,0	66,9	58,2
22SVI09-09..	11	15	0,70	140,1					133,7	129,2	124,4	113,8	109,3	95,8	86,0	74,6	64,8
22SVI10-10..	11	15	0,70	155,4					148,2	143,1	137,8	125,9	120,9	105,8	94,8	82,3	71,3
22SVI12-12..	15	20	0,70	186,1					178,6	172,9	166,8	152,9	147,0	129,1	115,9	100,7	87,4
22SVI14-14..	15	20	0,70	216,6					207,7	200,9	193,7	177,4	170,4	149,4	133,9	116,1	100,6
22SVI17-17..	18,5	25	0,70	263,5					252,8	244,7	236,0	216,2	207,8	182,3	163,6	142,0	123,2

Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A)

10-22siv-2p50-en_b_th

SVI33, 46 SERIES
TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 2 POLES

PUMP TYPE SVI..S / SVI..N	RATED POWER kW	RATED POWER HP	MEI ≥	Q = DELIVERY l/min 0	250	300	366,7	400	500	600	666,7	700	800	900	1000
				m³/h 0	15	18	22	24	30	36	40	42	48	54	60
				H = TOTAL HEAD METRES COLUMN OF WATER											
SVI 3301/1..	2,2	3	0,70	17,4	16,2	15,7	14,9	14,3	12,2	9,3	6,7				
SVI 3301..	3	4	0,70	23,8	21,7	21,2	20,3	19,8	17,8	15,0	12,7				
SVI 3302/2..	4	5,5	0,70	35,1	34,1	33,3	31,8	30,8	26,9	21,4	16,6				
SVI 3302/1..	4	5,5	0,70	40,8	38,8	37,9	36,3	35,4	31,7	26,6	22,3				
SVI 3303/2..	5,5	7,5	0,70	57,7	55,2	53,8	51,4	49,9	44,1	36,2	29,6				
SVI 3303..	7,5	10	0,70	71,5	67,4	66,2	64,0	62,7	57,7	50,7	44,6				
SVI 3304..	11	15	0,70	95,9	91,1	89,7	87,2	85,7	79,6	70,8	63,1				
SVI 3305/1..	11	15	0,70	112,7	107,2	105,3	101,9	99,8	91,7	80,0	70,0				
SVI 3306/2..	15	20	0,70	131,2	126,9	124,6	120,3	117,7	107,5	93,2	81,2				
SVI 3307/2..	15	20	0,70	156,0	149,9	147,3	142,7	139,8	128,4	112,2	98,2				
SVI 3307..	18,5	25	0,70	170,3	162,8	160,2	155,7	153,0	142,2	126,7	113,2				
SVI 3308/1..	18,5	25	0,70	187,4	179,5	176,5	171,3	168,1	155,5	137,4	121,7				
SVI 3309/1..	22	30	0,70	210,2	201,2	197,8	191,8	188,2	173,8	153,4	135,9				
SVI 3310/2..	22	30	0,70	226,4	217,2	213,4	206,8	202,6	186,4	163,5	143,9				
SVI 3310..	30	40	0,70	241,8	231,3	227,8	221,7	217,9	202,9	181,1	162,1				
SVI 4601/1..	3	4	0,70	19,5			19,2	19,0	17,9	16,4	15,1	14,4	11,7	8,5	4,6
SVI 4601..	4	5,5	0,70	27,2			24,0	23,7	22,5	21,1	19,9	19,3	17,1	14,3	10,8
SVI 4602/2..	5,5	7,5	0,70	38,8			39,8	39,4	37,8	35,2	32,9	31,6	26,9	21,1	13,9
SVI 4602..	7,5	10	0,70	52,6			48,5	48,0	46,1	43,7	41,7	40,6	36,5	31,4	25,1
SVI 4603..	11	15	0,70	80,8			74,3	73,5	70,9	67,4	64,6	62,9	57,1	49,8	40,7
SVI 4604/2..	15	20	0,70	92,4			90,7	89,9	86,9	82,5	78,6	76,3	68,3	58,2	45,6
SVI 4605..	18,5	25	0,70	134,5			125,1	124,0	120,0	114,7	110,2	107,6	98,3	86,4	71,5
SVI 4606..	22	30	0,70	161,0			149,8	148,5	143,8	137,4	132,0	128,9	117,8	103,7	86,0
SVI 4607/2..	30	40	0,70	171,3			164,9	163,6	158,3	150,8	144,3	140,6	127,1	109,9	88,6
SVI 4608/2..	30	40	0,70	198,2			190,0	188,4	182,4	173,8	166,4	162,2	146,9	127,3	103,1
SVI 4609/2..	30	40	0,70	224,8			214,5	212,6	205,6	195,7	187,3	182,5	165,2	143,2	116,0

Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A)

svi33-46-2p50-en_d_th

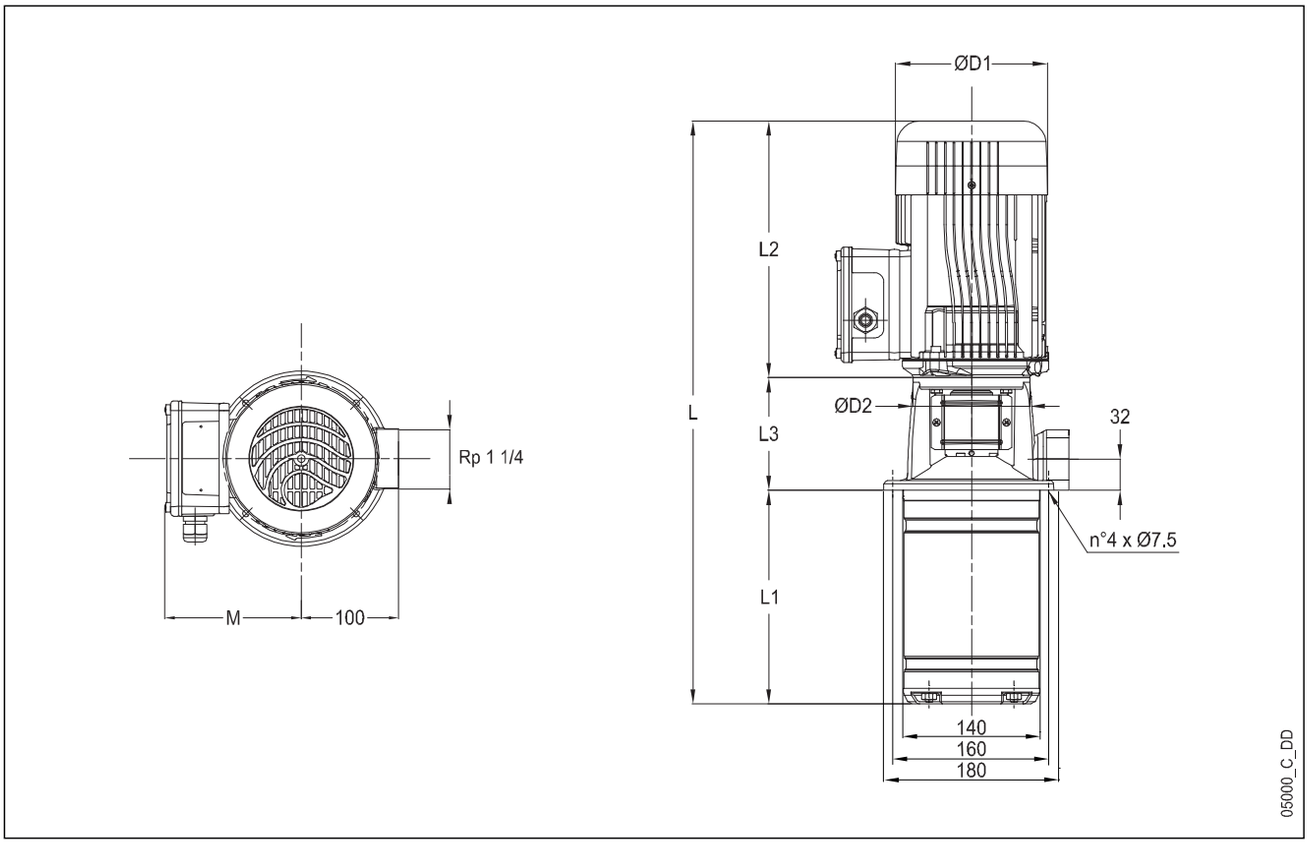
SVI66, 92 SERIES
TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 2 POLES

PUMP TYPE SVI..S / SVI..N	RATED POWER kW	RATED POWER HP	MEI ≥	Q = DELIVERY l/min 0	500	600	750	900	1000	1100	1200	1416,7	1600	1800	2000
				m³/h 0	30	36	45	54	60	66	72	85	96	108	120
				H = TOTAL HEAD METRES COLUMN OF WATER											
SVI 6601/1..	4	5,5	0,60	23,8	21,4	20,7	19,4	17,8	16,6	15,1	13,3	8,3			
SVI 6601..	5,5	7,5	0,60	29,2	25,8	24,8	23,3	21,8	20,7	19,4	17,9	13,4			
SVI 6602/2..	7,5	10	0,60	47,5	42,6	41,2	38,6	35,5	32,9	30,0	26,4	16,4			
SVI 6602..	11	15	0,60	60,4	55,7	54,4	52,0	49,3	47,1	44,7	42,0	34,6			
SVI 6603/2..	15	20	0,60	78,4	71,6	69,6	65,9	61,5	57,9	53,8	49,0	35,3			
SVI 6603..	18,5	25	0,60	91,4	84,7	82,7	79,3	75,2	72,0	68,5	64,4	53,5			
SVI 6604/1..	22	30	0,60	115,2	105,9	103,1	98,5	92,9	88,6	83,6	77,8	61,7			
SVI 6605/1..	30	40	0,60	145,6	134,0	130,5	124,7	117,8	112,4	106,3	99,2	79,4			
SVI 9201/1..	5,5	7,5	0,70	24,5			22,2	21,5	20,9	20,2	19,4	17,3	15,0	11,8	7,9
SVI 9201..	7,5	10	0,70	33,5			28,7	27,2	26,2	25,3	24,3	22,2	20,2	17,6	14,3
SVI 9202/2..	11	15	0,70	49,4			45,1	43,7	42,5	41,2	39,6	35,5	30,9	24,6	16,8
SVI 9202..	15	20	0,70	67,8			58,2	55,3	53,4	51,4	49,5	45,3	41,4	36,3	29,6
SVI 9203/2..	18,5	25	0,70	82,4			74,4	71,6	69,6	67,3	64,8	58,6	52,2	43,6	32,9
SVI 9203..	22	30	0,70	102,2			88,2	84,0	81,2	78,4	75,5	69,2	63,4	55,9	46,3
SVI 9204/2..	30	40	0,70	115,7			104,0	99,9	97,0	93,8	90,4	82,2	73,8	62,8	49,0
SVI 9204..	30	40	0,70	133,1			117,0	111,7	108,0	104,4	100,6	92,3	84,6	74,8	62,5

Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A)

svi66-92-2p50-en_e_th

DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES



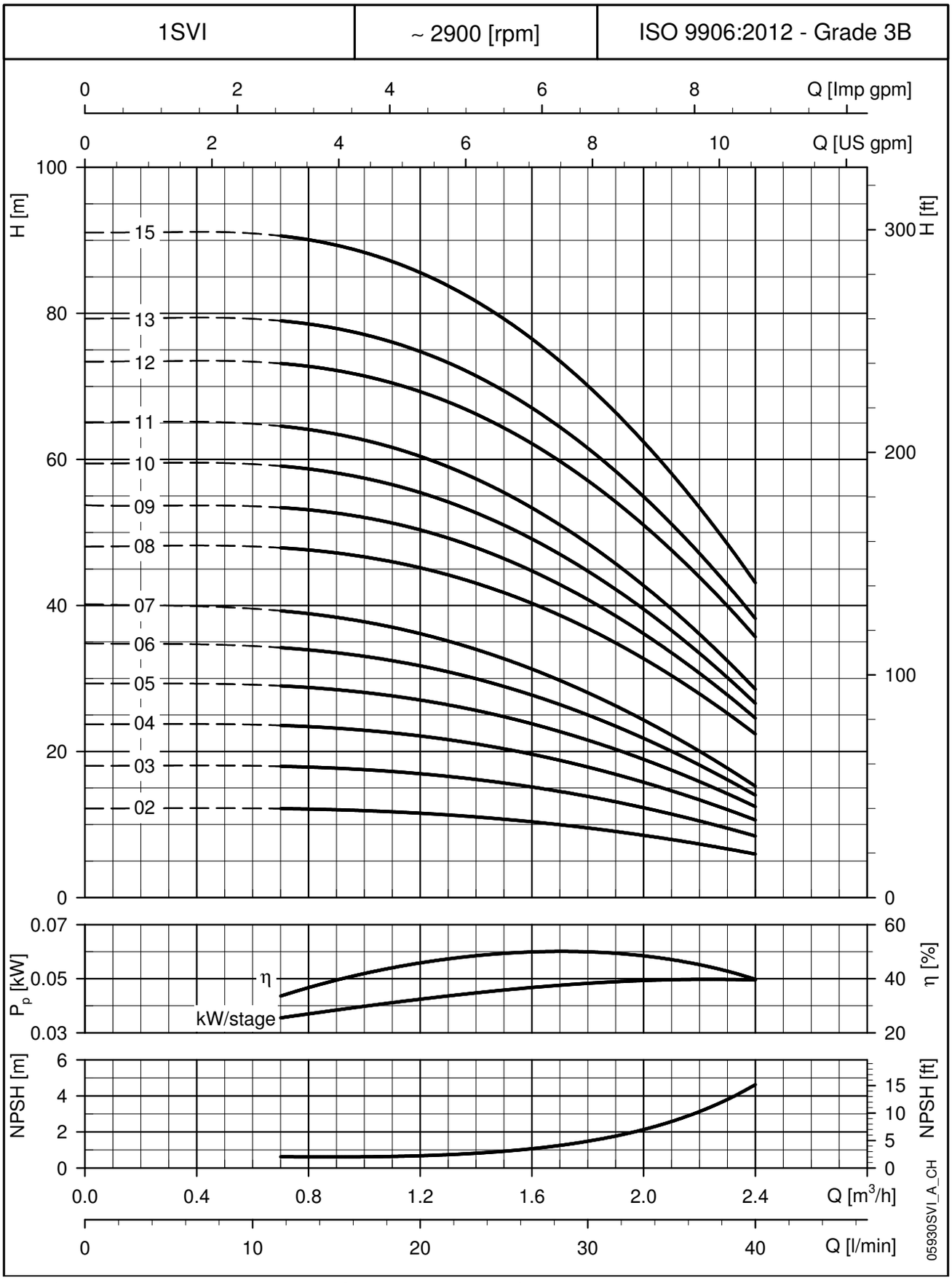
PUMP TYPE	MOTOR		DIMENSIONS (mm)												WEIGHT (kg)		
			L		L1	L2		L3	M		D1		D2	PUMP	ELECTRIC PUMP		
	kW	SIZE	1~	3~		1~	3~		1~	3~	1~	3~			1~	3~
1SVI02-02..003	0,37	71	434	434	119	209	209	106	111	122	120	120	105	6,3	11,8	11,6
1SVI03-03..003	0,37	71	454	454	139	209	209	106	111	122	120	120	105	6,7	12,2	12,0
1SVI04-04..003	0,37	71	474	474	159	209	209	106	111	122	120	120	105	7,1	12,6	12,4
1SVI05-05..003	0,37	71	494	494	179	209	209	106	111	122	120	120	105	7,5	13,0	12,8
1SVI06-06..003	0,37	71	514	514	199	209	209	106	111	122	120	120	105	7,8	13,3	13,1
1SVI07-07..003	0,37	71	534	534	219	209	209	106	111	122	120	120	105	8,2	13,7	13,5
1SVI08-08..005	0,55	71	576	576	239	231	231	106	121	132	140	140	105	8,6	16,1	15,9
1SVI09-09..005	0,55	71	596	596	259	231	231	106	121	132	140	140	105	9,0	16,5	16,3
1SVI10-10..005	0,55	71	616	616	279	231	231	106	121	132	140	140	105	9,4	16,9	16,7
1SVI11-11..005	0,55	71	636	636	299	231	231	106	121	132	140	140	105	9,8	17,3	17,1
1SVI12-12..007	0,75	80	698	698	319	263	263	116	137	140	155	155	120	10,6	20,4	20,7
1SVI13-13..007	0,75	80	718	718	339	263	263	116	137	140	155	155	120	11,0	20,8	21,1
1SVI15-15..007	0,75	80	758	758	379	263	263	116	137	140	155	155	120	11,8	21,6	21,9

1svi_c-2p50-1-en_b_td

All listed dimensions are with inducer.
e.g. 1SVI10-10 has 10 stages with impeller and 1 inducer chamber.

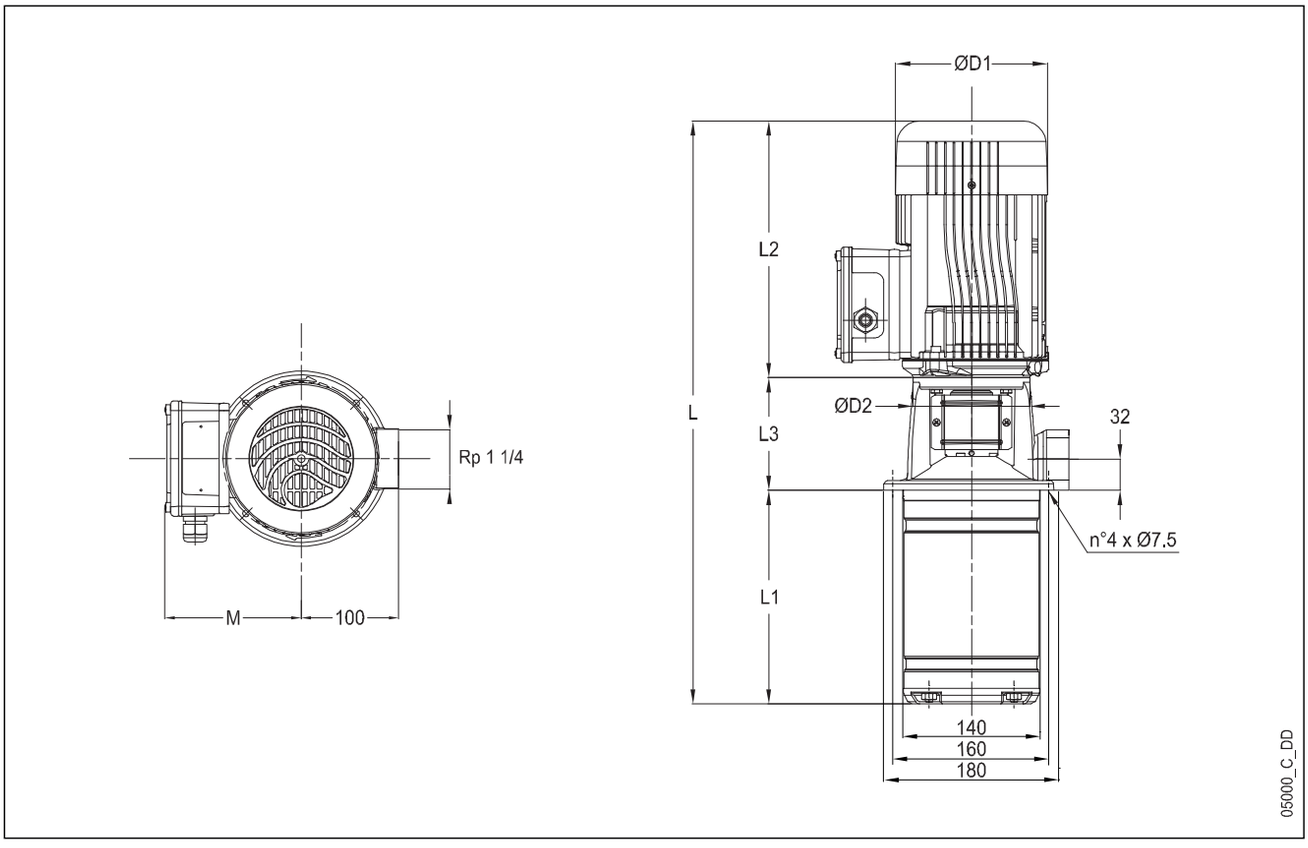
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

1SVI	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES



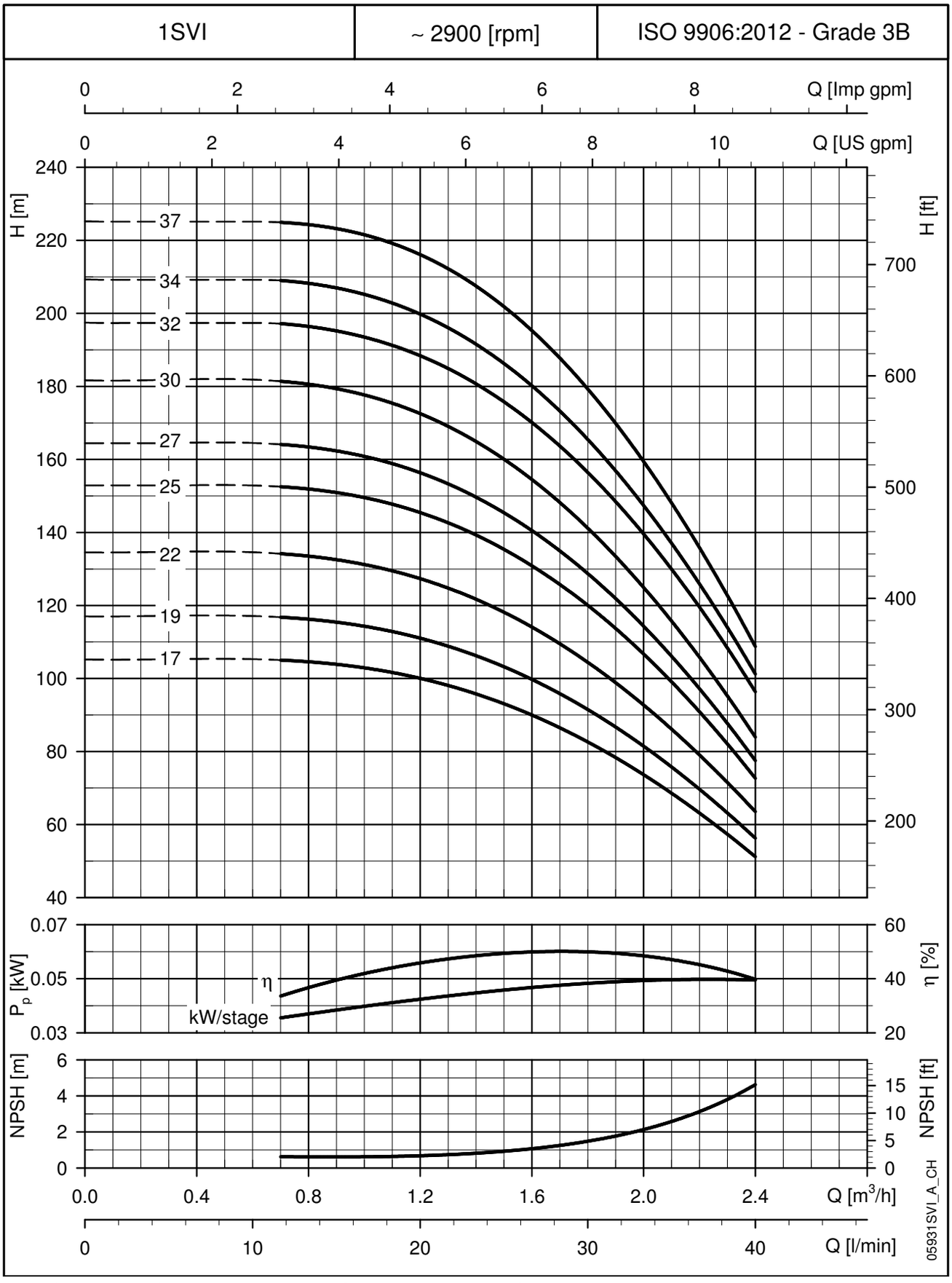
PUMP TYPE	MOTOR		DIMENSIONS (mm)											WEIGHT (kg)		
			L		L1	L2		L3	M		D1		D2	PUMP	ELECTRIC PUMP	
	kW	SIZE	1~	3~		1~	3~		1~	3~	1~	3~			1~	3~
1SVI17-17..011	1,1	80	798	798	419	263	263	116	137	140	155	155	120	12,5	24,0	22,6
1SVI19-19..011	1,1	80	838	838	459	263	263	116	137	140	155	155	120	13,3	24,8	23,4
1SVI22-22..011	1,1	80	898	898	519	263	263	116	137	140	155	155	120	14,5	26,0	24,6
1SVI25-25..015	1,5	90	1003	968	579	298	263	126	159	140	174	155	140	16,0	41,0	27,9
1SVI27-27..015	1,5	90	1043	1008	619	298	263	126	159	140	174	155	140	16,8	41,8	28,7
1SVI30-30..015	1,5	90	1103	1068	679	298	263	126	159	140	174	155	140	17,9	42,9	29,8
1SVI32-32..022	2,2	90	-	1143	719	-	298	126	-	134	-	174	140	18,7	-	36,7
1SVI34-34..022	2,2	90	-	1183	759	-	298	126	-	134	-	174	140	19,5	-	37,5
1SVI37-37..022	2,2	90	-	1243	819	-	298	126	-	134	-	174	140	20,6	-	38,6

1svi_c-2p50-2-en_b_td

All listed dimensions are with inducer.
e.g. 1SVI37-37 has 37 stages with impeller and 1 inducer chamber.

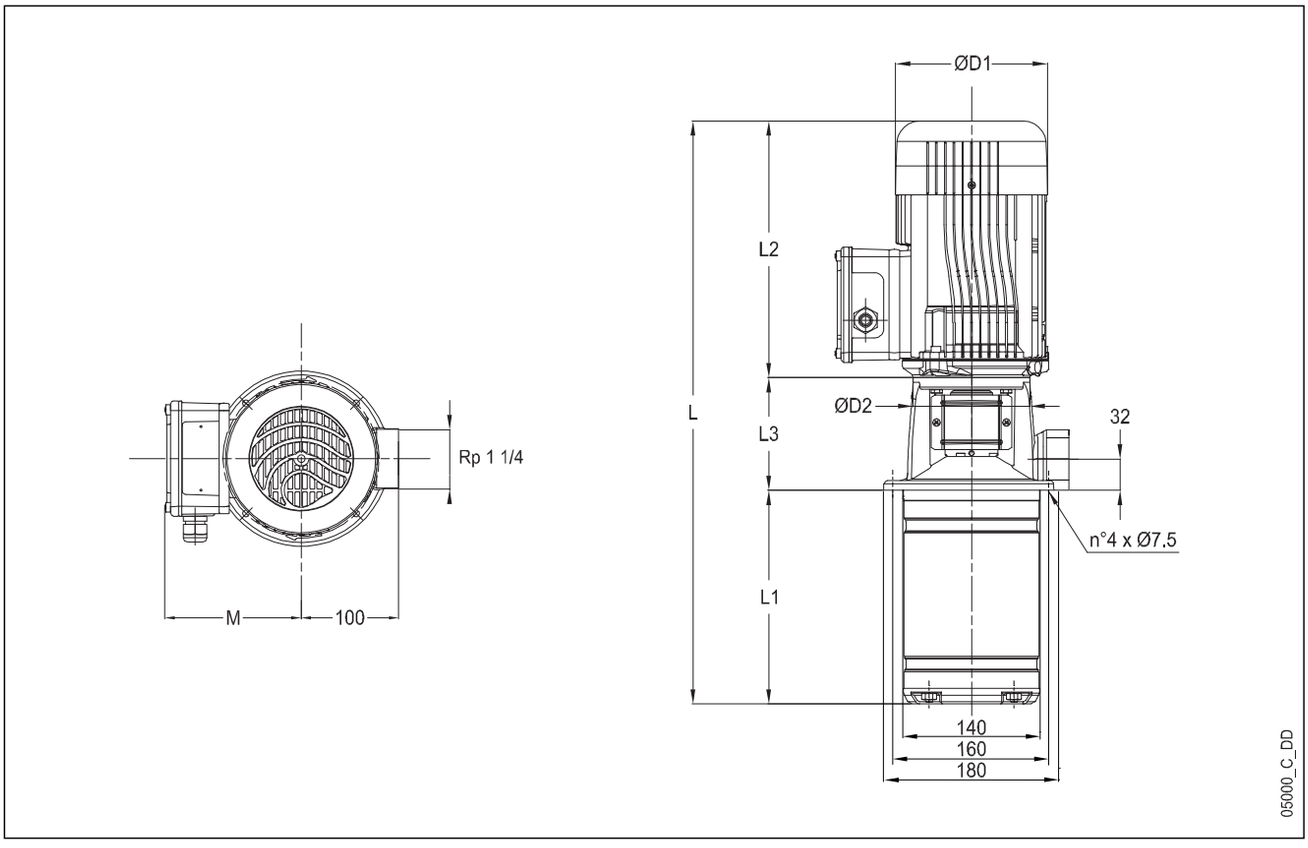
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

1SVI	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES



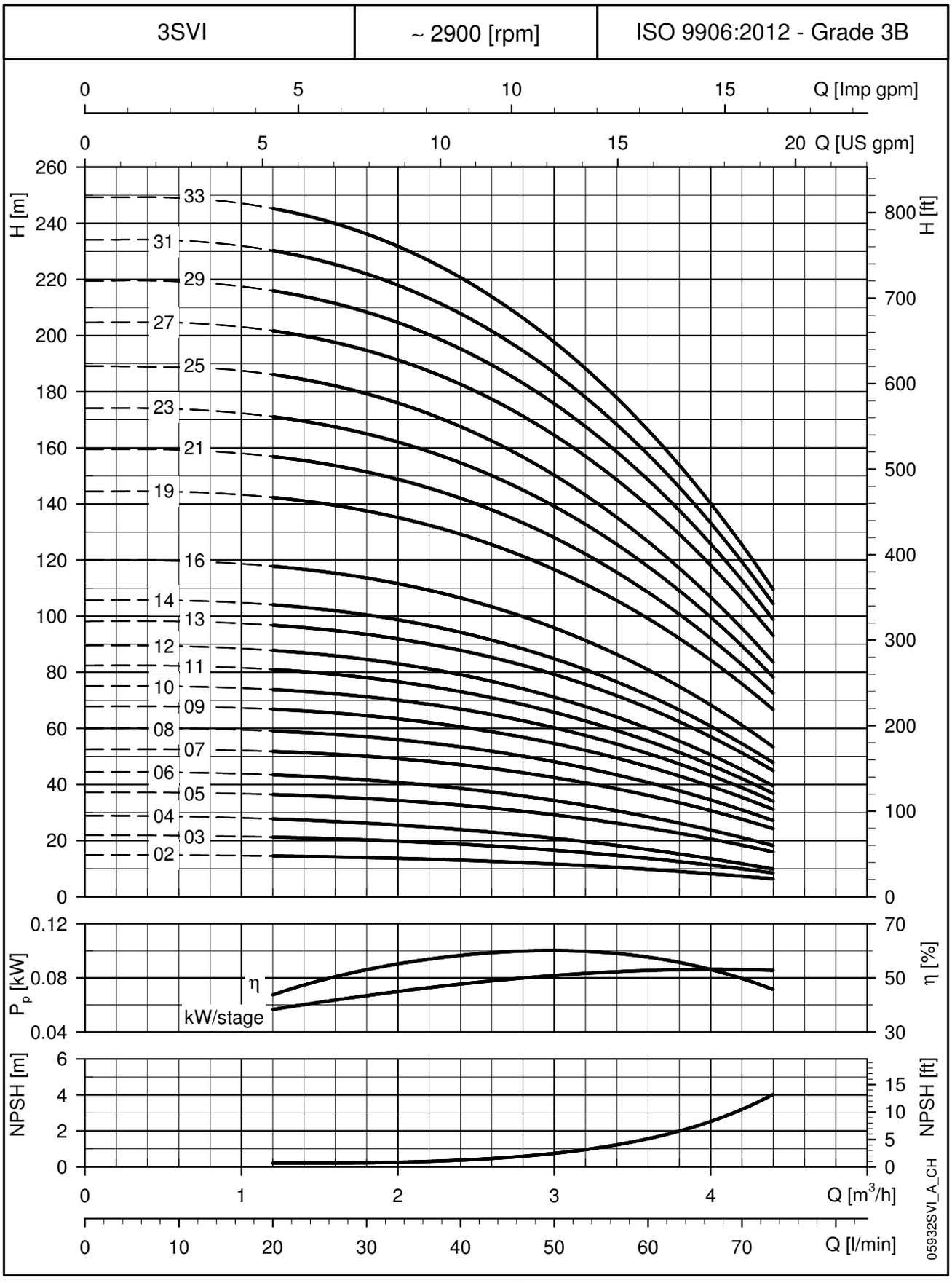
PUMP TYPE	MOTOR		DIMENSIONS (mm)												WEIGHT (kg)		
			L		L1	L2		L3	M		D1		D2		PUMP	ELECTRIC PUMP	
	kW	SIZE	1~	3~		1~	3~		1~	3~	1~	3~				1~	3~
3SVI02-02..003	0,37	71	434	434	119	209	209	106	111	122	120	120	105		6,3	11,8	11,6
3SVI03-03..003	0,37	71	454	454	139	209	209	106	111	122	120	120	105		6,7	12,2	12,0
3SVI04-04..003	0,37	71	474	474	159	209	209	106	111	122	120	120	105		7,1	12,6	12,4
3SVI05-05..005	0,55	71	516	516	179	231	231	106	121	132	140	140	105		7,5	15,0	14,8
3SVI06-06..005	0,55	71	536	536	199	231	231	106	121	132	140	140	105		7,9	15,4	15,2
3SVI07-07..007	0,75	80	598	598	219	263	263	116	137	140	155	155	120		8,7	18,5	18,8
3SVI08-08..007	0,75	80	618	618	239	263	263	116	137	140	155	155	120		9,1	18,9	19,2
3SVI09-09..011	1,1	80	638	638	259	263	263	116	137	140	155	155	120		9,5	21,0	19,6
3SVI10-10..011	1,1	80	658	658	279	263	263	116	137	140	155	155	120		9,9	21,4	20,0
3SVI11-11..011	1,1	80	678	678	299	263	263	116	137	140	155	155	120		10,3	21,8	20,4
3SVI12-12..011	1,1	80	698	698	319	263	263	116	137	140	155	155	120		10,7	22,2	20,8
3SVI13-13..015	1,5	90	763	728	339	298	263	126	159	140	174	155	140		11,5	36,5	23,4
3SVI14-14..015	1,5	90	783	748	359	298	263	126	159	140	174	155	140		11,9	36,9	23,8
3SVI16-16..015	1,5	90	823	788	399	298	263	126	159	140	174	155	140		12,7	37,7	24,6
3SVI19-19..022	2,2	90	-	883	459	-	298	126	-	134	-	174	140		13,9	-	31,9
3SVI21-21..022	2,2	90	-	923	499	-	298	126	-	134	-	174	140		14,7	-	32,7
3SVI23-23..022	2,2	90	-	963	539	-	298	126	-	134	-	174	140		15,5	-	33,5
3SVI25-25..022	2,2	90	-	1003	579	-	298	126	-	134	-	174	140		16,3	-	34,3
3SVI27-27..030	3	100	-	1053	619	-	298	136	-	134	-	174	160		17,7	-	38,7
3SVI29-29..030	3	100	-	1093	659	-	298	136	-	134	-	174	160		18,5	-	39,5
3SVI31-31..030	3	100	-	1133	699	-	298	136	-	134	-	174	160		19,3	-	40,3
3SVI33-33..030	3	100	-	1173	739	-	298	136	-	134	-	174	160		20,1	-	41,1

3svi_c-2p50-en_b_td

All listed dimensions are with inducer.
e.g. 3SVI33-33 has 33 stages with impeller and 1 inducer chamber.

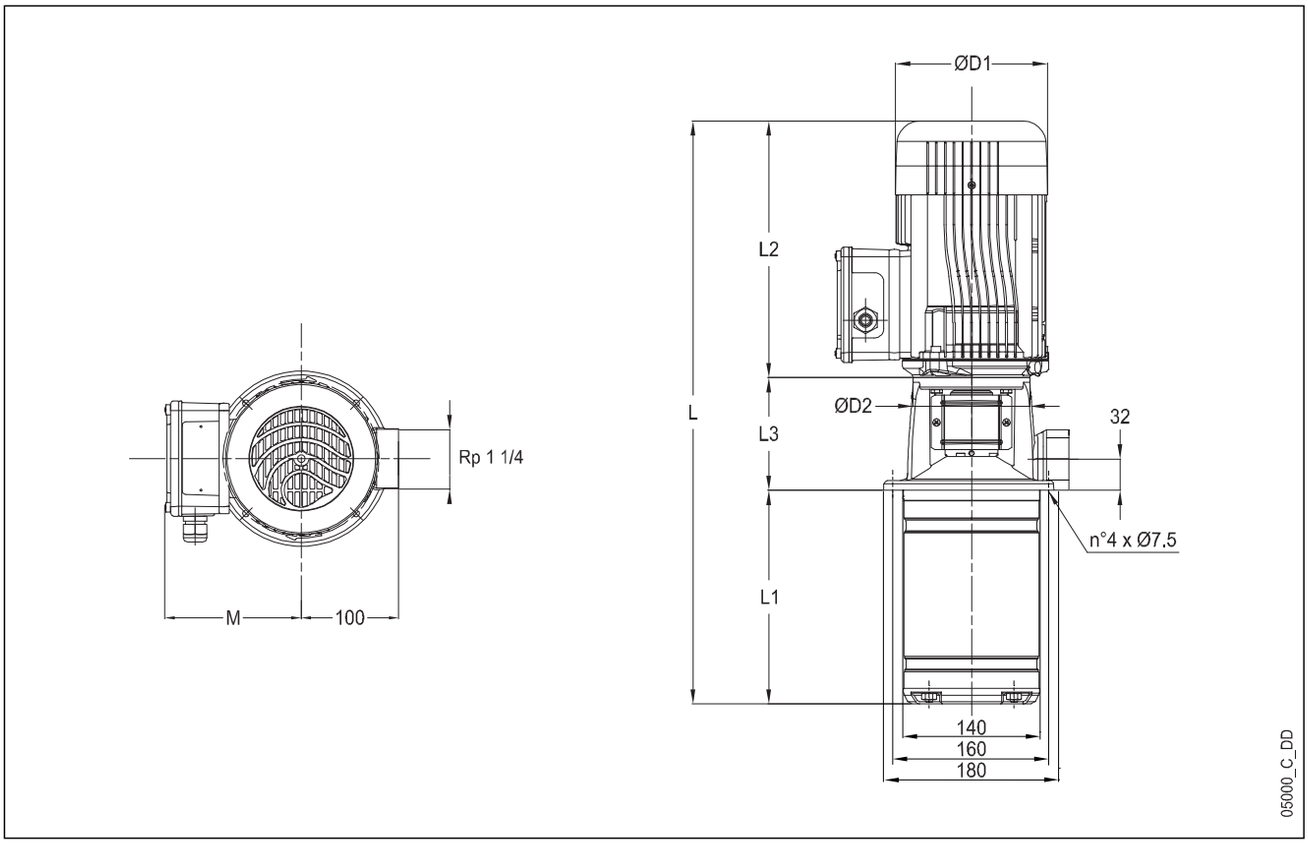
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

3SVI	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES



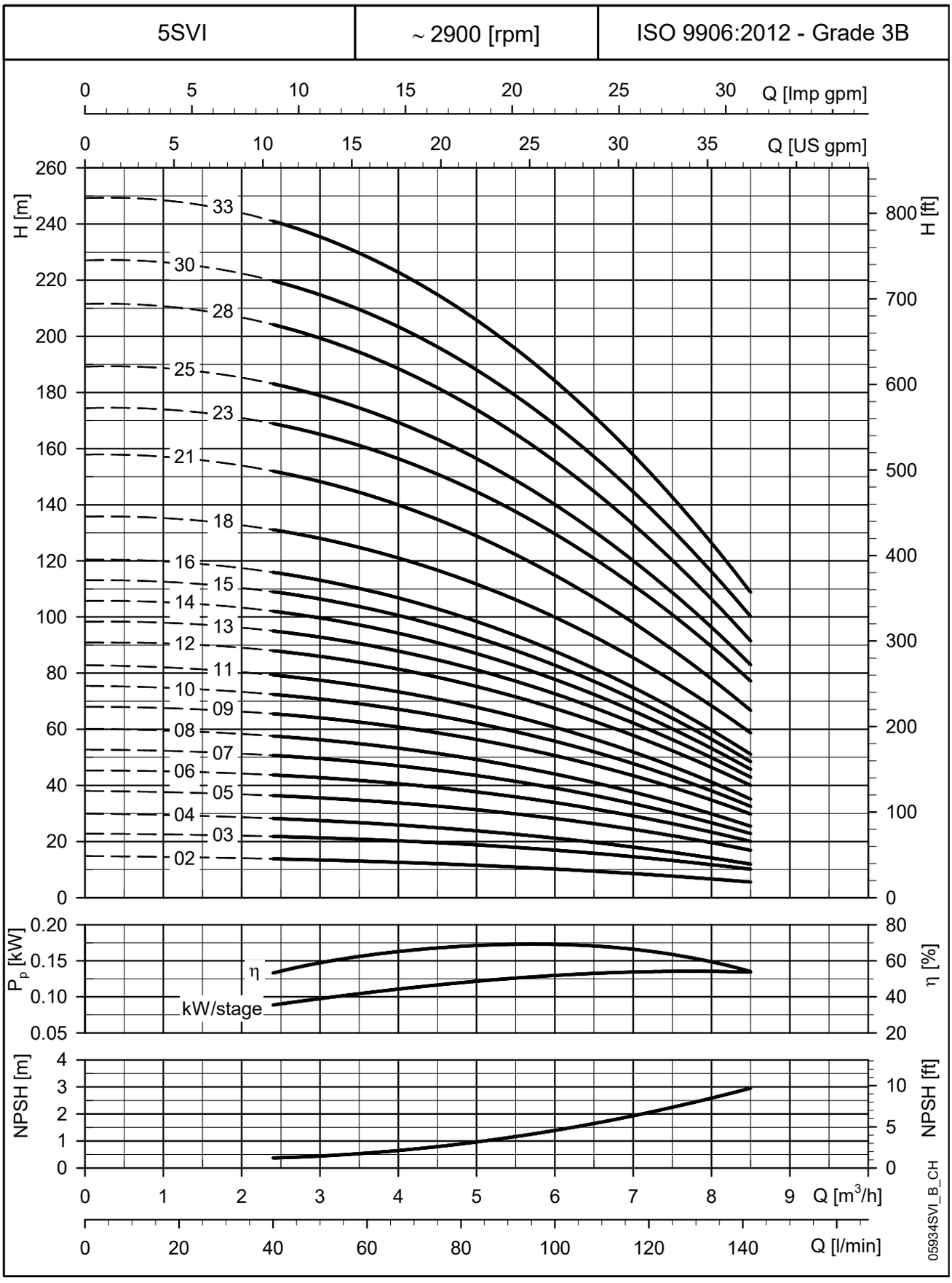
PUMP TYPE	MOTOR		DIMENSIONS (mm)												WEIGHT (kg)		
			L		L1	L2		L3	M		D1		D2		PUMP	ELECTRIC PUMP	
	kW	SIZE	1~	3~		1~	3~		1~	3~	1~	3~				1~	3~
5SVI02-02..003	0,37	71	449	449	134	209	209	106	111	122	120	120	105		6,7	12,2	12,0
5SVI03-03..005	0,55	71	496	496	159	231	231	106	121	132	140	140	105		7,1	14,6	14,4
5SVI04-04..005	0,55	71	521	521	184	231	231	106	121	132	140	140	105		7,5	15,0	14,8
5SVI05-05..007	0,75	80	588	588	209	263	263	116	137	140	155	155	120		8,4	18,2	18,5
5SVI06-06..011	1,1	80	613	613	234	263	263	116	137	140	155	155	120		8,9	20,4	19,0
5SVI07-07..011	1,1	80	638	638	259	263	263	116	137	140	155	155	120		9,3	20,8	19,4
5SVI08-08..011	1,1	80	663	663	284	263	263	116	137	140	155	155	120		9,7	21,2	19,8
5SVI09-09..015	1,5	90	733	698	309	298	263	126	159	140	174	155	140		10,6	35,6	22,5
5SVI10-10..015	1,5	90	758	723	334	298	263	126	159	140	174	155	140		11,0	36,0	22,9
5SVI11-11..015	1,5	90	783	748	359	298	263	126	159	140	174	155	140		11,4	36,4	23,3
5SVI12-12..022	2,2	90	-	808	384	-	298	126	-	134	-	174	140		11,9	-	29,9
5SVI13-13..022	2,2	90	-	833	409	-	298	126	-	134	-	174	140		12,3	-	30,3
5SVI14-14..022	2,2	90	-	858	434	-	298	126	-	134	-	174	140		12,8	-	30,8
5SVI15-15..022	2,2	90	-	883	459	-	298	126	-	134	-	174	140		13,2	-	31,2
5SVI16-16..022	2,2	90	-	908	484	-	298	126	-	134	-	174	140		13,6	-	31,6
5SVI18-18..030	3	100	-	968	534	-	298	136	-	134	-	174	160		15,1	-	36,1
5SVI21-21..030	3	100	-	1043	609	-	298	136	-	134	-	174	160		16,5	-	37,5
5SVI23-23..040	4	112	-	1114	659	-	319	136	-	154	-	197	160		17,4	-	43,8
5SVI25-25..040	4	112	-	1164	709	-	319	136	-	154	-	197	160		18,2	-	44,6
5SVI28-28..040	4	112	-	1239	784	-	319	136	-	154	-	197	160		19,6	-	46,0
5SVI30-30..055	5,5	132	-	1365	834	-	375	156	-	168	-	214	300		24,4	-	62,0
5SVI33-33..055	5,5	132	-	1440	909	-	375	156	-	168	-	214	300		25,8	-	63,4

All listed dimensions are with inducer.
e.g. 5SVI33-33 has 33 stages with impeller and 1 inducer chamber.

5svi_c-2p50-en_b_td

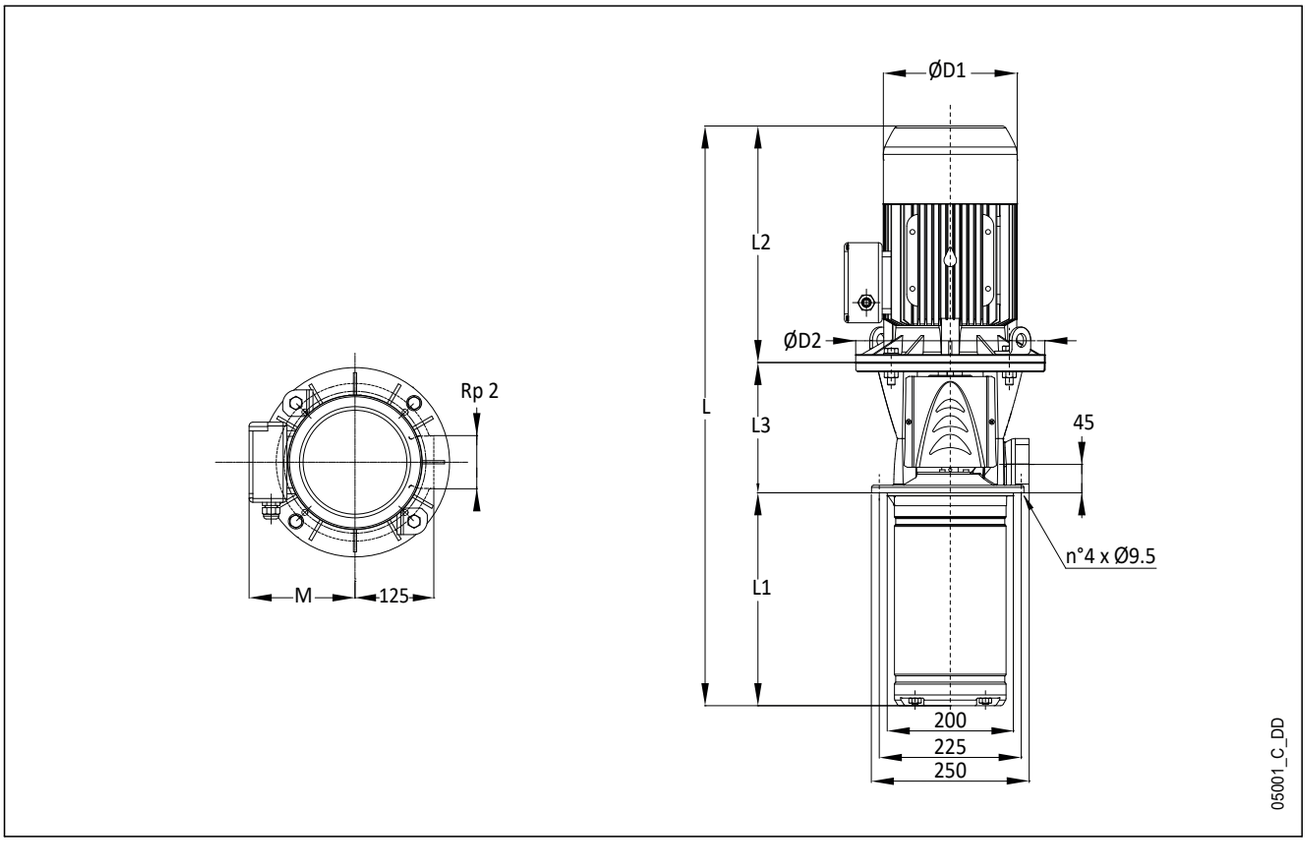
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

5SVI	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/sec.

DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES



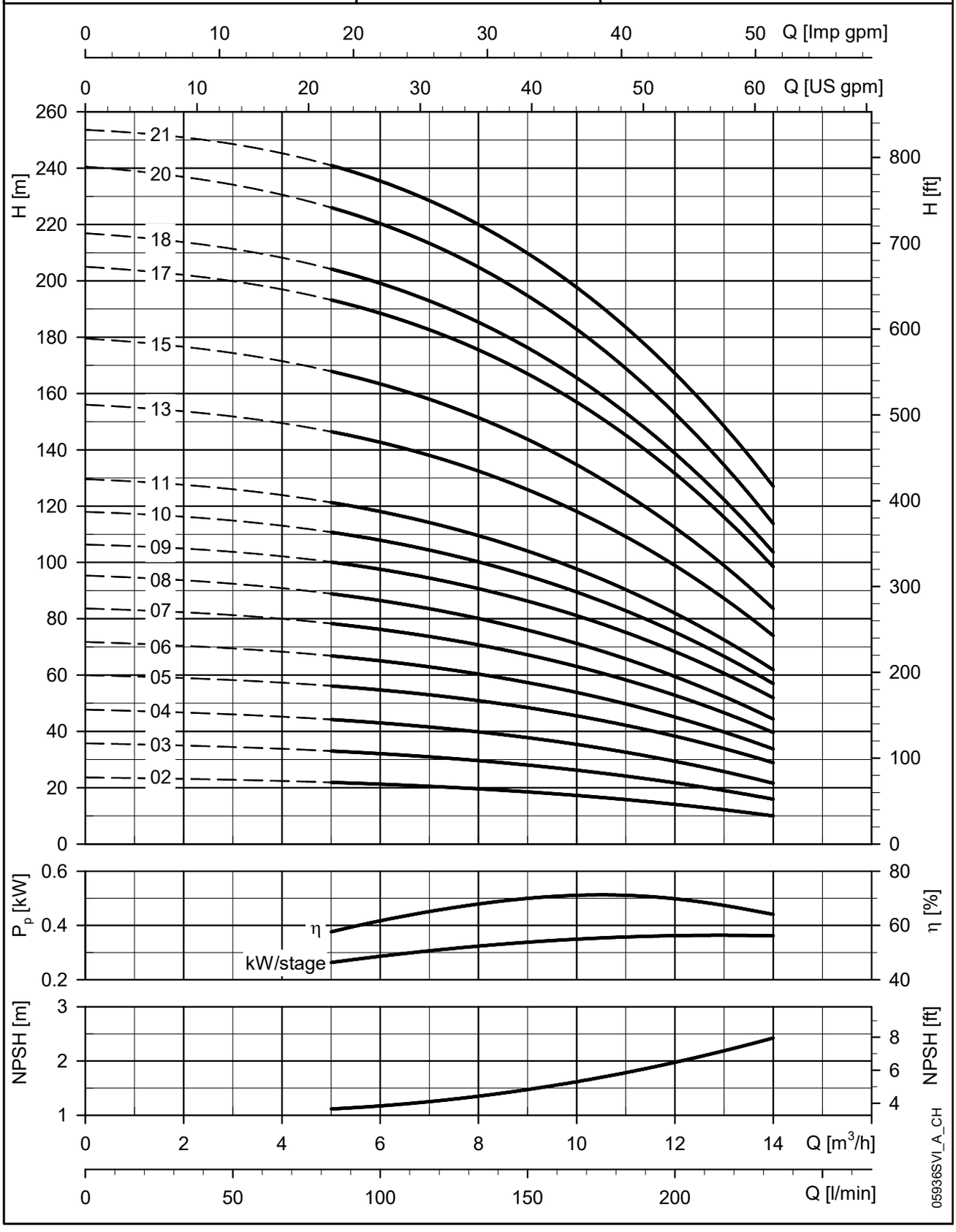
PUMP TYPE	MOTOR		DIMENSIONS (mm)												WEIGHT (kg)		
			L		L1	L2		L3	M		D1		D2	PUMP	ELECTRIC PUMP	
	kW	SIZE	1~	3~		1~	3~		1~	3~	1~	3~			1~	3~
10SVI02-02..007	0,75	80	563	563	178	263	263	122	137	140	155	155	120	12,7	22,5	22,8
10SVI03-03..011	1,1	80	595	595	210	263	263	122	137	140	155	155	120	13,7	25,2	23,8
10SVI04-04..015	1,5	90	672	637	242	298	263	132	159	140	174	155	140	14,8	39,8	26,7
10SVI05-05..022	2,2	90	-	704	274	-	298	132	-	134	-	174	140	15,8	-	33,8
10SVI06-06..022	2,2	90	-	736	306	-	298	132	-	134	-	174	140	16,7	-	34,7
10SVI07-07..030	3	100	-	778	338	-	298	142	-	134	-	174	160	18,8	-	39,8
10SVI08-08..030	3	100	-	810	370	-	298	142	-	134	-	174	160	19,8	-	40,8
10SVI09-09..040	4	112	-	863	402	-	319	142	-	154	-	197	160	20,7	-	47,1
10SVI10-10..040	4	112	-	895	434	-	319	142	-	154	-	197	160	21,6	-	48,0
10SVI11-11..040	4	112	-	927	466	-	319	142	-	154	-	197	160	22,6	-	49,0
10SVI13-13..055	5,5	132	-	1111	530	-	375	207	-	168	-	214	300	30,1	-	67,7
10SVI15-15..055	5,5	132	-	1175	594	-	375	207	-	168	-	214	300	32,0	-	69,6
10SVI17-17..075	7,5	132	-	1231	658	-	367	207	-	191	-	256	300	33,9	-	90,9
10SVI18-18..075	7,5	132	-	1263	690	-	367	207	-	191	-	256	300	34,9	-	91,9
10SVI20-20..075	7,5	132	-	1327	754	-	367	207	-	191	-	256	300	36,8	-	93,8
10SVI21-21..110	11	160	-	1452	786	-	428	239	-	191	-	256	350	45,3	-	115,7

All listed dimensions are with inducer.
e.g. 10SVI21-21 has 21 stages with impeller and 1 inducer chamber.

10svi_c-2p50-en_b_td

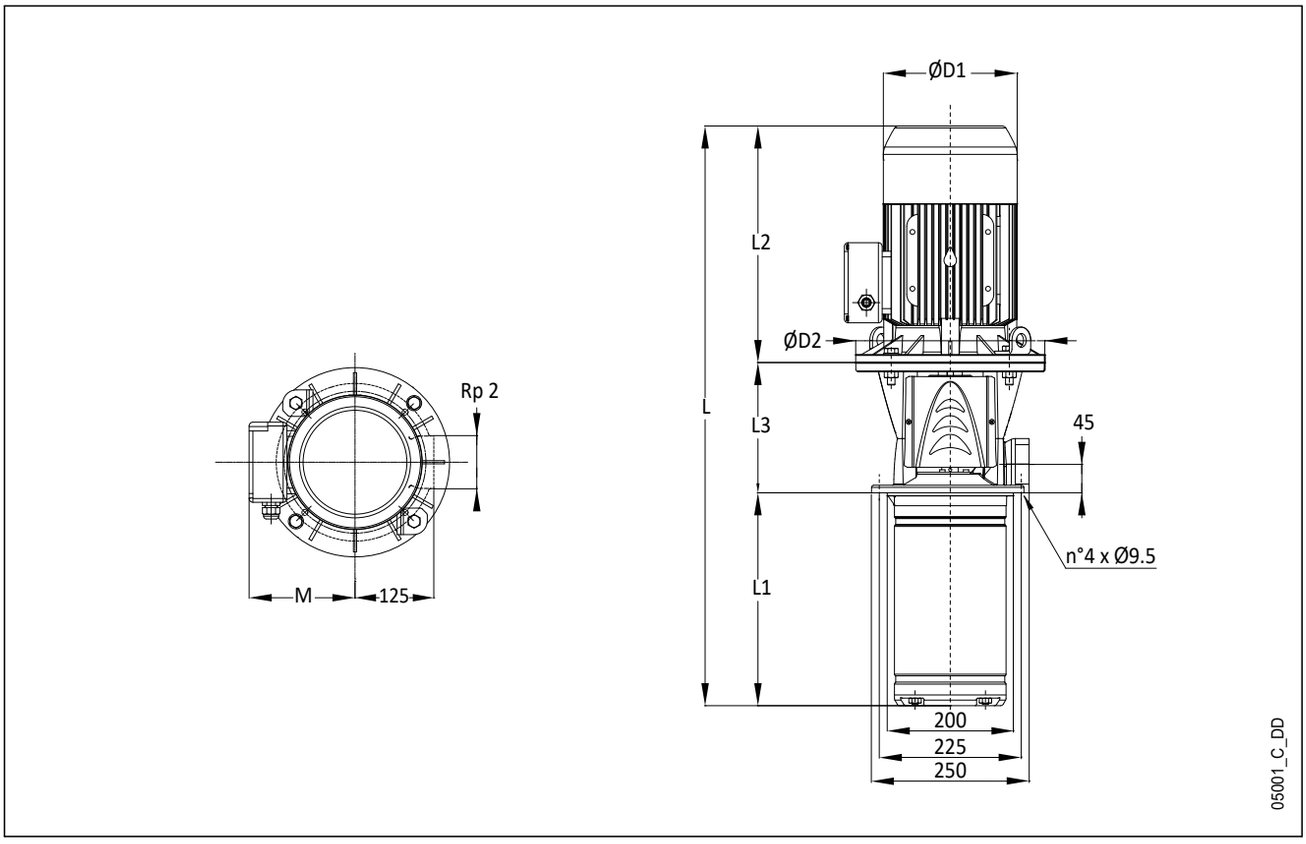
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

10SVI	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES



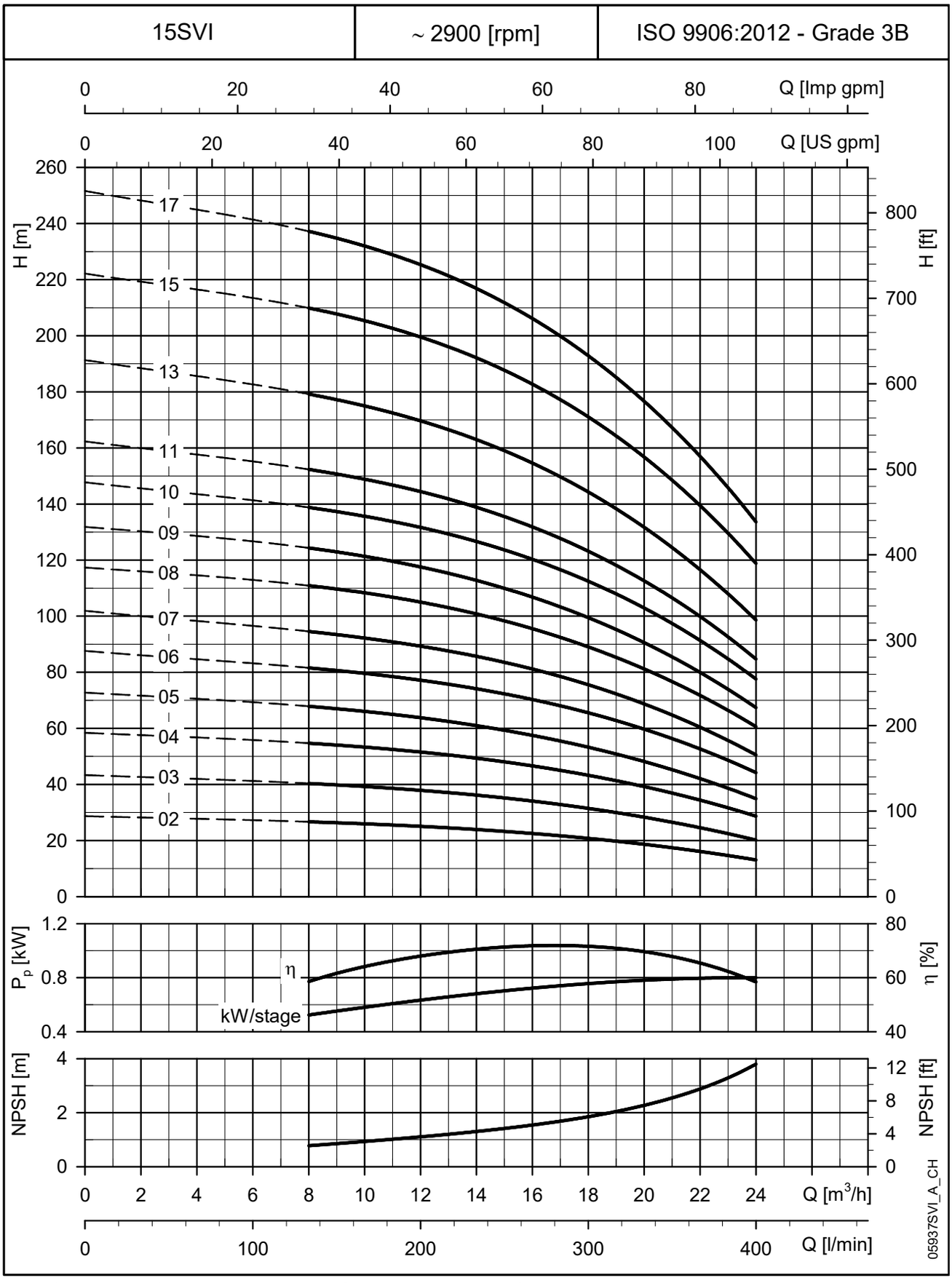
PUMP TYPE	MOTOR		DIMENSIONS (mm)							WEIGHT (kg)	
	kW	SIZE	L	L1	L2	L3	M	D1	D2	PUMP	ELECTRIC PUMP
15SVI02-02..022	2,2	90	656	226	298	132	134	174	140	14,1	32,1
15SVI03-03..030	3	100R	714	274	298	142	134	174	160	16,5	37,5
15SVI04-04..040	4	112R	783	322	319	142	154	197	160	17,8	44,2
15SVI05-05..040	4	112R	831	370	319	142	154	197	160	19,1	45,5
15SVI06-06..055	5,5	132R	999	418	375	207	168	214	300	26,0	63,6
15SVI07-07..055	5,5	132R	1047	466	375	207	168	214	300	27,3	64,9
15SVI08-08..075	7,5	132	1087	514	367	207	191	256	300	28,6	85,6
15SVI09-09..075	7,5	132	1135	562	367	207	191	256	300	29,9	86,9
15SVI10-10..110	11	160R	1276	610	428	239	191	256	350	38,8	109,2
15SVI11-11..110	11	160R	1324	658	428	239	191	256	350	40,0	110,4
15SVI13-13..110	11	160R	1420	754	428	239	191	256	350	42,6	113,0
15SVI15-15..150	15	160	1582	850	494	239	240	313	350	45,2	147,2
15SVI17-17..150	15	160	1678	946	494	239	240	313	350	47,7	149,7

15svi_c-2p50-en_b_td

All listed dimensions are with inducer.
e.g. 15SVI17-17 has 17 stages with impeller and 1 inducer chamber.

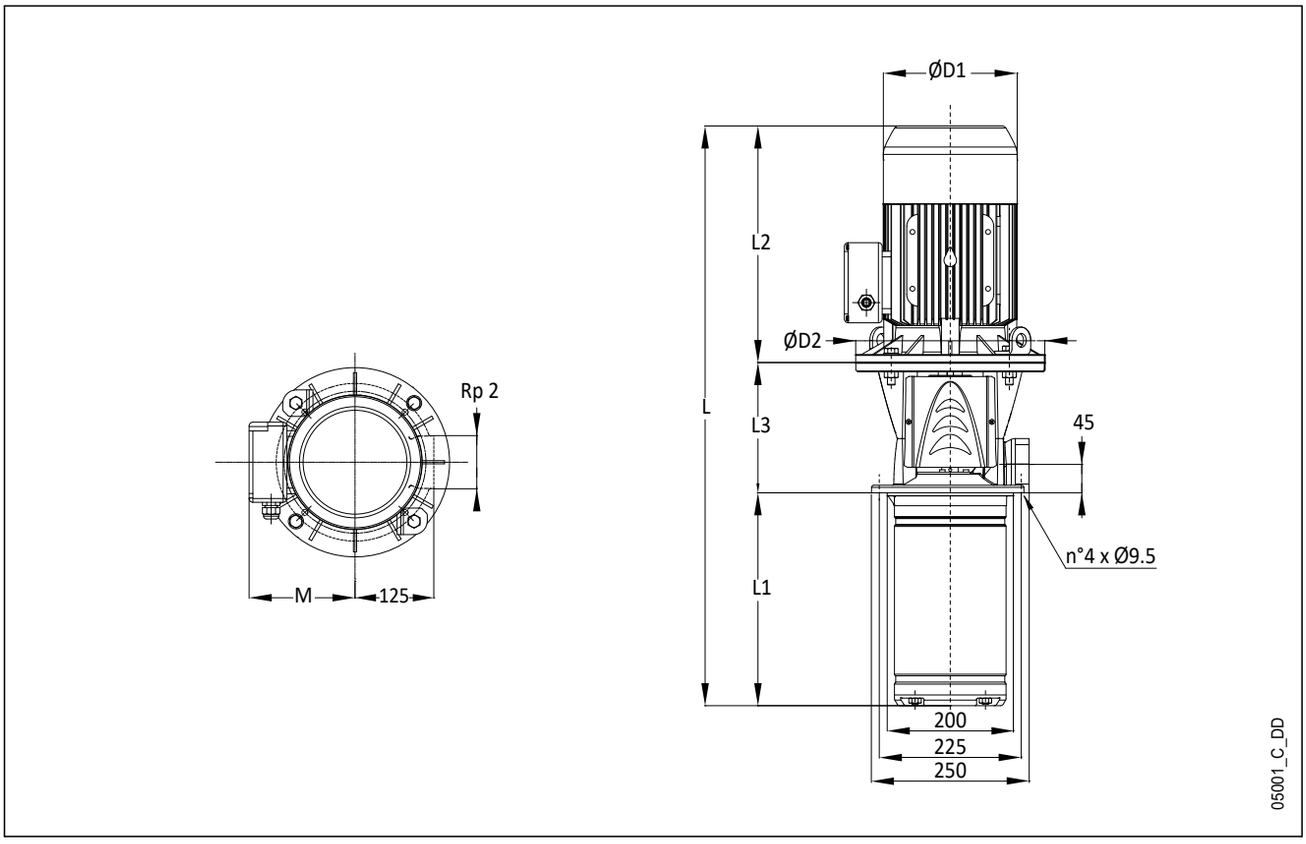
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

15SVI	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/sec.

DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES



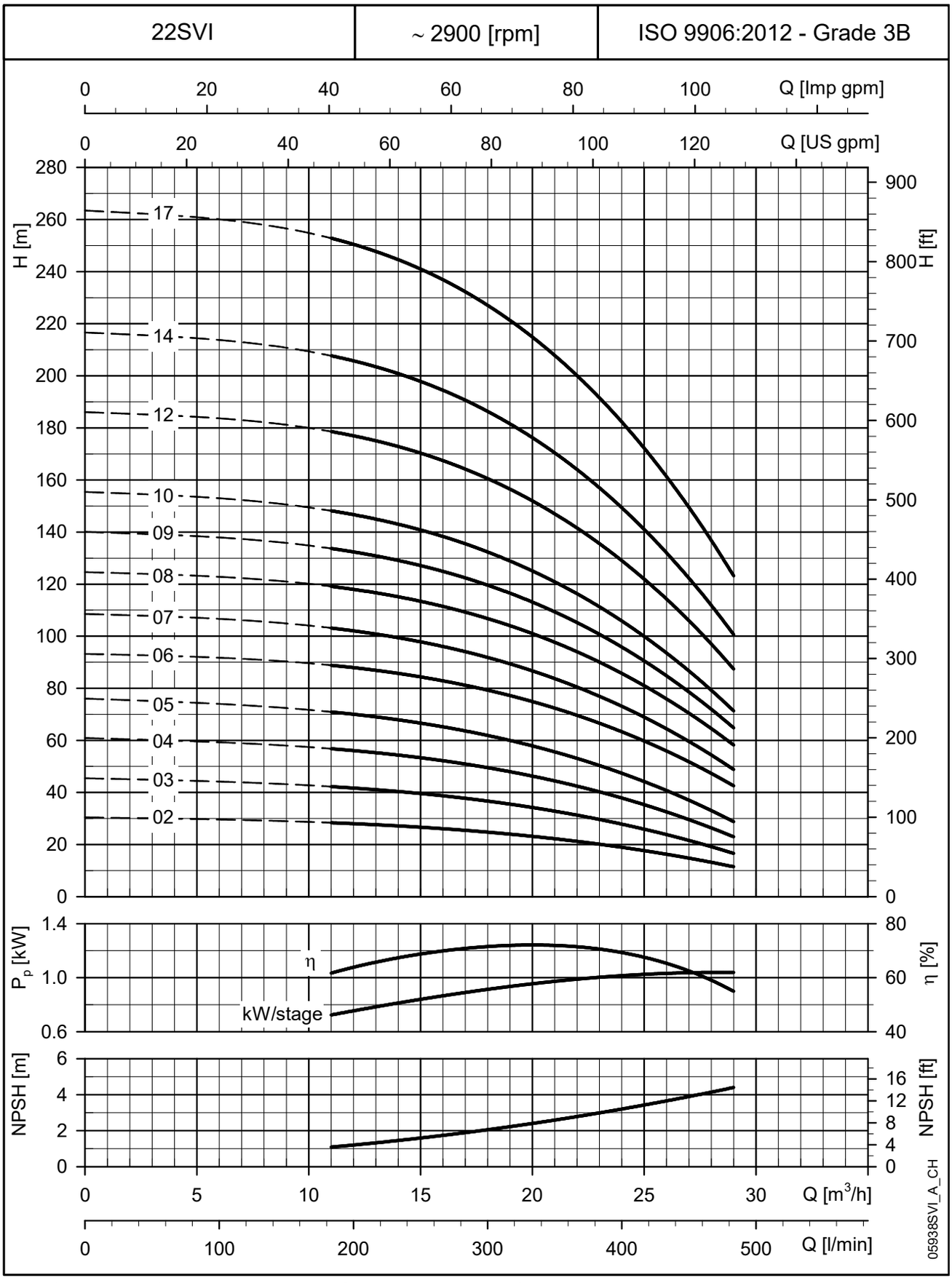
PUMP TYPE	MOTOR		DIMENSIONS (mm)							WEIGHT (kg)	
	kW	SIZE	L	L1	L2	L3	M	D1	D2	PUMP	ELECTRIC PUMP
22SVI02-02..022	2,2	90	656	226	298	132	134	174	140	14,1	32,1
22SVI03-03..030	3	100R	714	274	298	142	134	174	160	16,5	37,5
22SVI04-04..040	4	112R	783	322	319	142	154	197	160	17,8	44,2
22SVI05-05..055	5,5	132R	951	370	375	207	168	214	300	24,8	62,4
22SVI06-06..075	7,5	132	991	418	367	207	191	256	300	26,1	83,1
22SVI07-07..075	7,5	132	1039	466	367	207	191	256	300	27,3	84,3
22SVI08-08..110	11	160R	1180	514	428	239	191	256	350	36,2	106,6
22SVI09-09..110	11	160R	1228	562	428	239	191	256	350	37,5	107,9
22SVI10-10..110	11	160R	1276	610	428	239	191	256	350	38,8	109,2
22SVI12-12..150	15	160	1438	706	494	239	240	313	350	41,4	143,4
22SVI14-14..150	15	160	1534	802	494	239	240	313	350	44,0	146,0
22SVI17-17..185	18,5	160	1678	946	494	239	240	313	350	47,8	149,8

22svi_c-2p50-en_b_td

All listed dimensions are with inducer.
e.g. 22SVI17-17 has 17 stages with impeller and 1 inducer chamber.

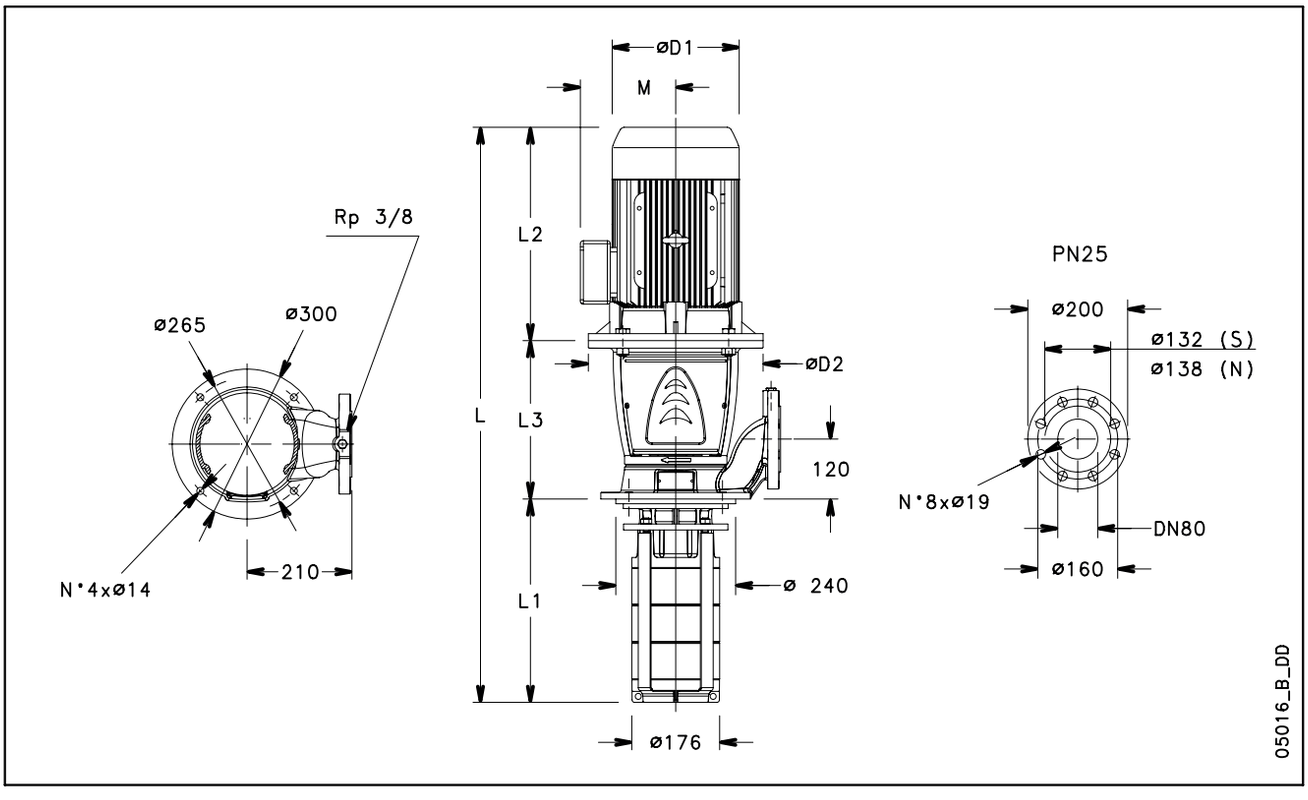
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

22SVI	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES

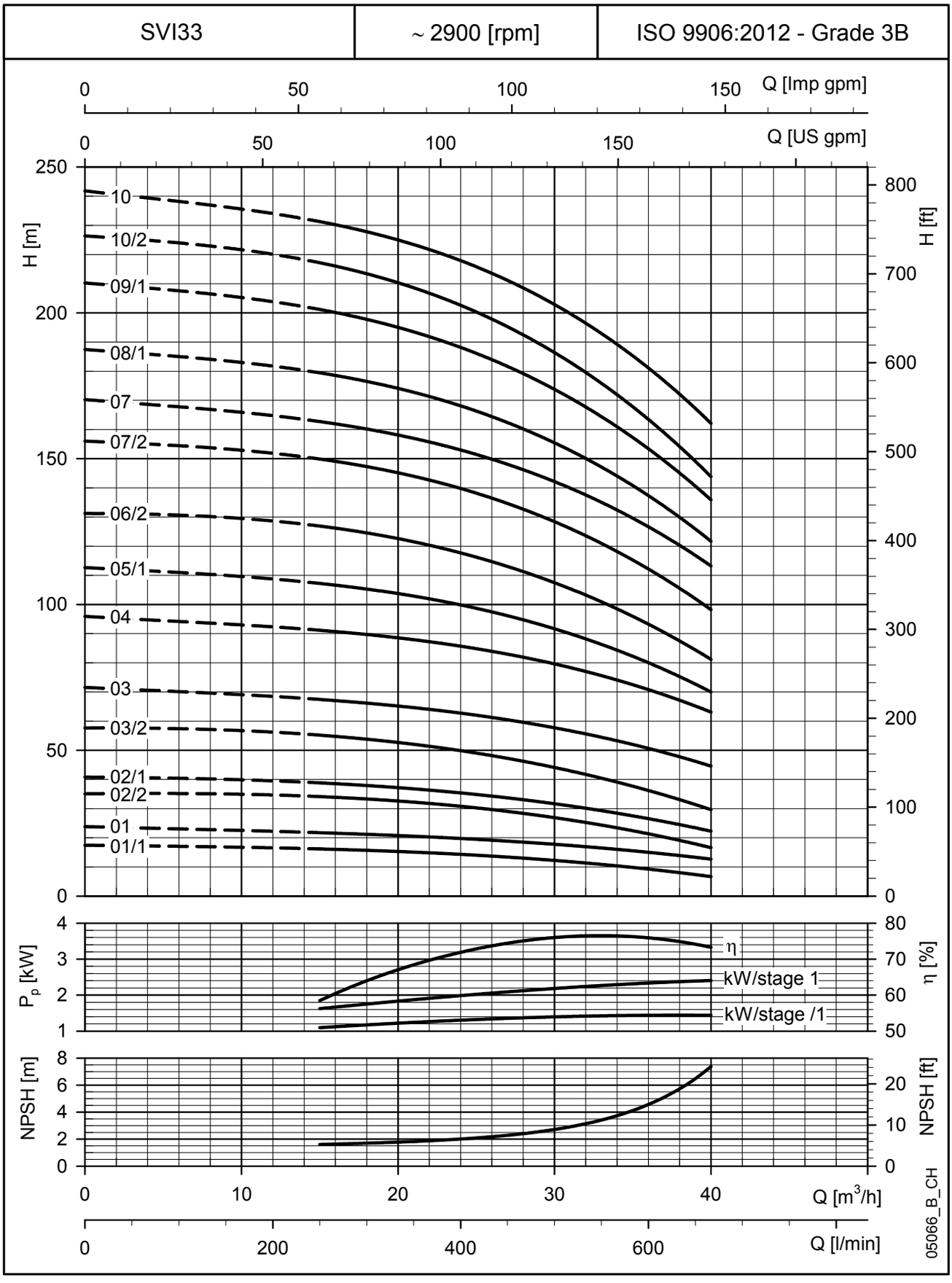


PUMP TYPE	MOTOR		DIMENSIONS (mm)							WEIGHT (kg)	
	kW	SIZE	L	L1	L2	L3	M	D1	D2	PUMP	ELECTRIC PUMP
SVI3301/1-01..22T/D	2,2	90	817	257	298	262	134	174	140	38	56
SVI3301-01..30T/D	3	100	817	257	298	262	134	174	160	43	64
SVI3302/2-02..40T/D	4	112	913	332	319	262	154	197	160	44	70
SVI3302/1-02..40T/D	4	112	913	332	319	262	154	197	160	44	70
SVI3303/2-03..55T/D	5,5	132	1064	407	375	282	168	214	300	50	88
SVI3303-03..75T/D	7,5	132	1056	407	367	282	191	256	300	50	107
SVI3304-04..110T/D	11	160	1227	482	428	317	191	256	350	58	128
SVI3305/1-05..110T/D	11	160	1302	557	428	317	191	256	350	60	130
SVI3306/2-06..150T/D	15	160	1443	632	494	317	240	313	350	63	165
SVI3307/2-07..150T/D	15	160	1518	707	494	317	240	313	350	66	168
SVI3307-07..185T/D	18,5	160	1518	707	494	317	240	313	350	74	176
SVI3308/1-08..185T/D	18,5	160	1593	782	494	317	240	313	350	77	179
SVI3309/1-09..220T/D	22	180	1668	857	494	317	240	313	350	72	193
SVI3310/2-10..220T/D	22	180	1743	932	494	317	240	313	350	75	196
SVI3310-10..300T/D	30	200	1920	932	671	317	285	408	400	88	296

svi33s-2p50-en_e_td

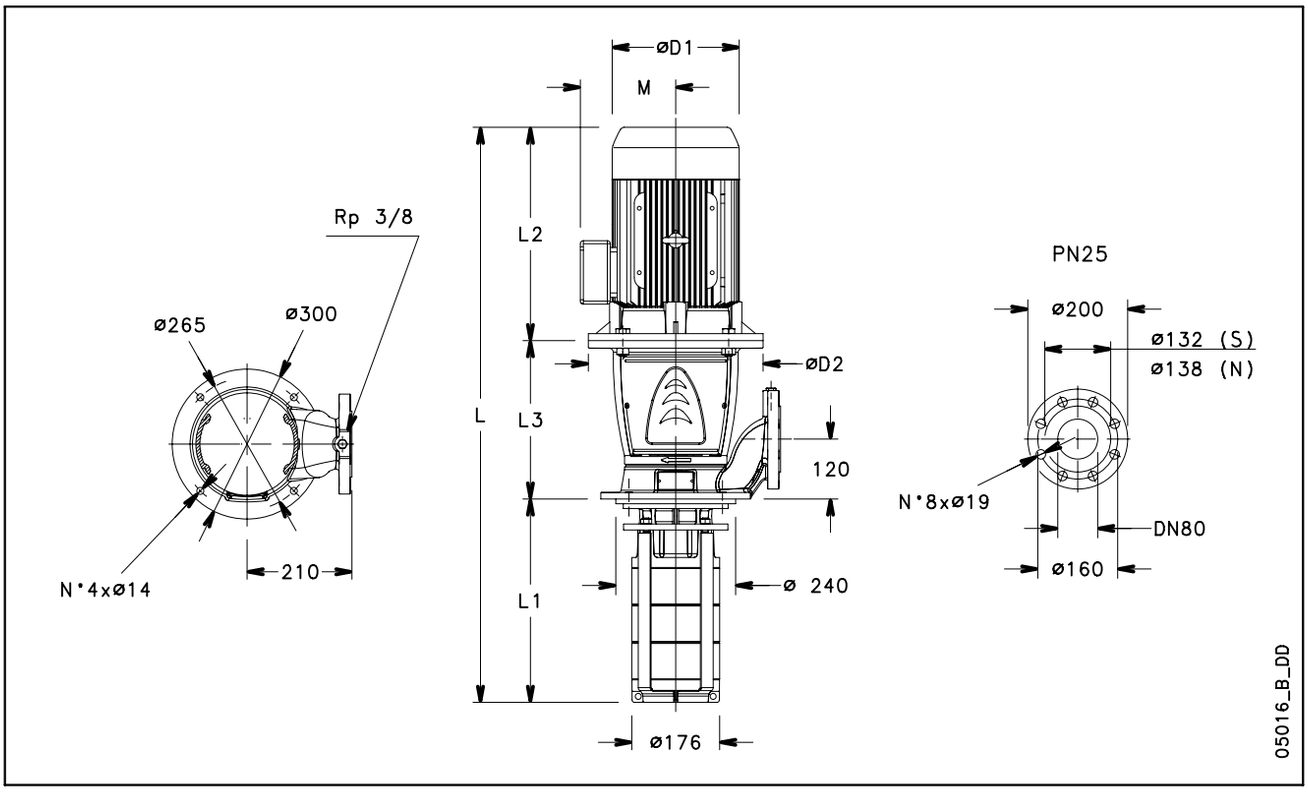
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

SVI33	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/sec.

DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES

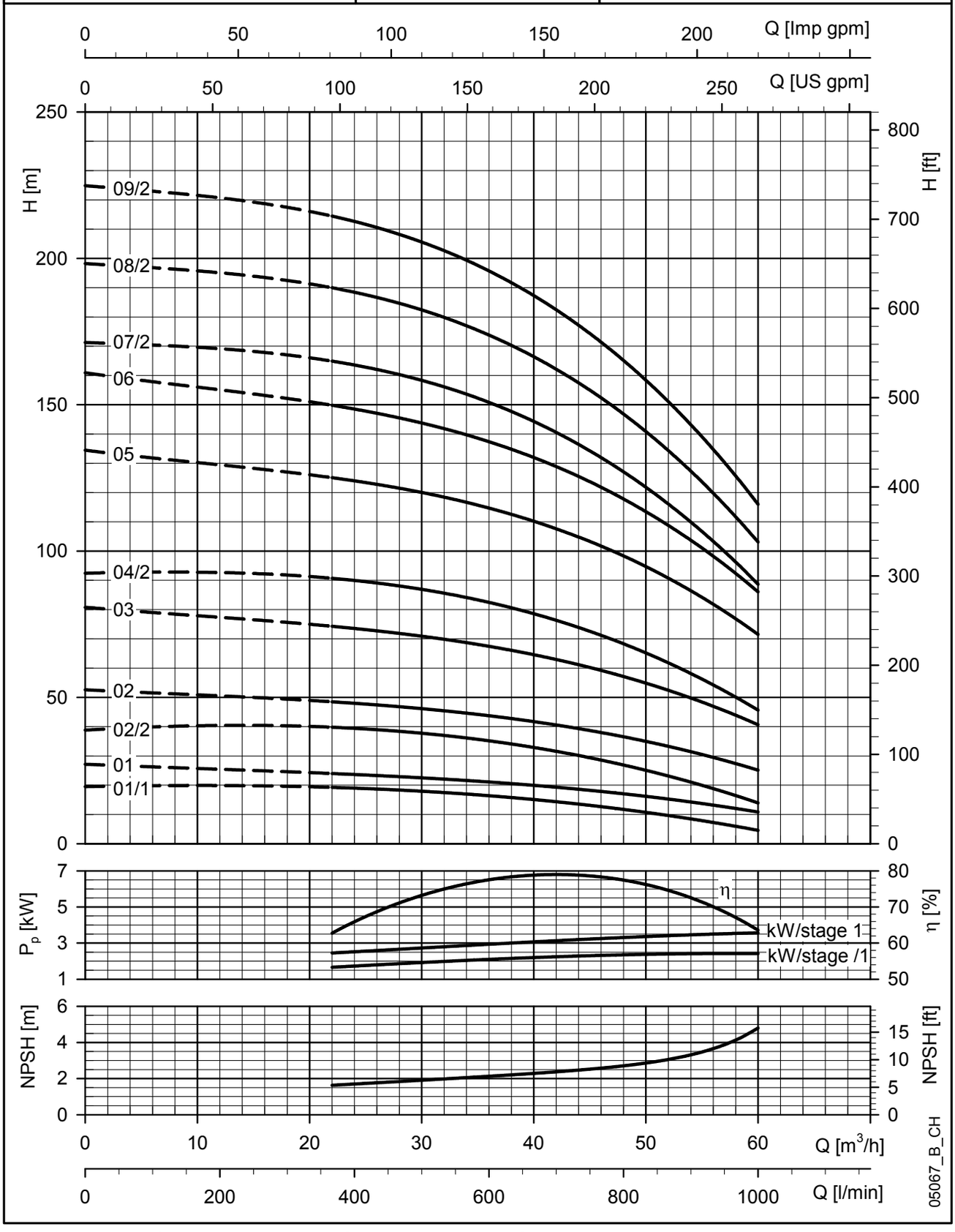


PUMP TYPE	MOTOR		DIMENSIONS (mm)							WEIGHT (kg)	
	kW	SIZE	L	L1	L2	L3	M	D1	D2	PUMP	ELECTRIC PUMP
SVI4601/1-01..30T/D	3	100	817	257	298	262	134	174	160	43	64
SVI4601-01..40T/D	4	112	838	257	319	262	154	197	160	41	67
SVI4602/2-02..55T/D	5,5	132	989	332	375	282	168	214	300	47	85
SVI4602-02..75T/D	7,5	132	981	332	367	282	191	256	300	47	104
SVI4603-03..110T/D	11	160	1152	407	428	317	191	256	350	55	125
SVI4604/2-04..150T/D	15	160	1293	482	494	317	240	313	350	57	159
SVI4605-05..185T/D	18,5	160	1368	557	494	317	240	313	350	69	171
SVI4606-06..220T/D	22	180	1443	632	494	317	240	313	350	64	185
SVI4607/2-07..300T/D	30	200	1695	707	671	317	285	408	400	86	294
SVI4608/2-08..300T/D	30	200	1770	782	671	317	285	408	400	89	297
SVI4609/2-09..300T/D	30	200	1845	857	671	317	285	408	400	91	299

svi46s-2p50-en_e_td

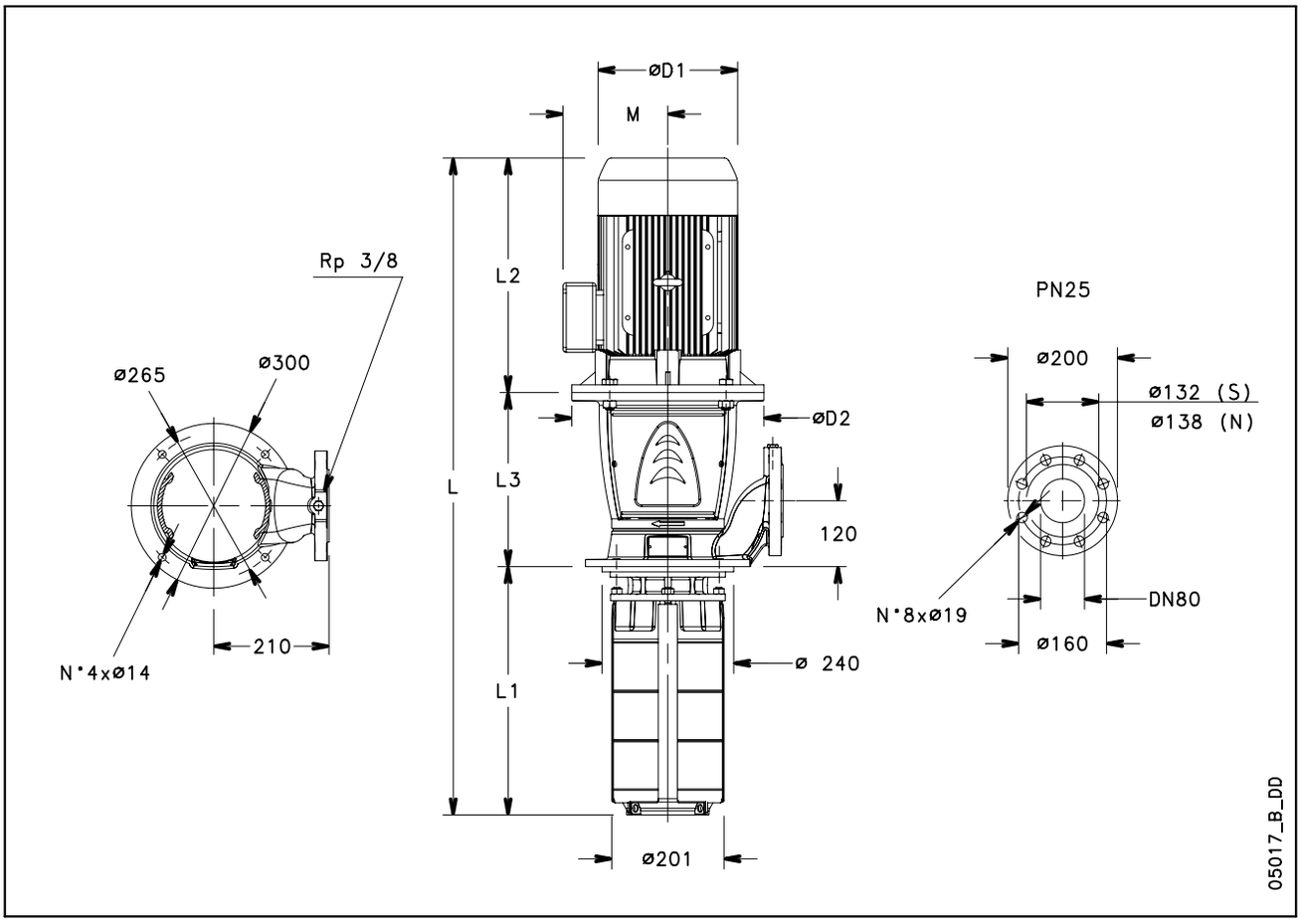
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

SVI46	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES

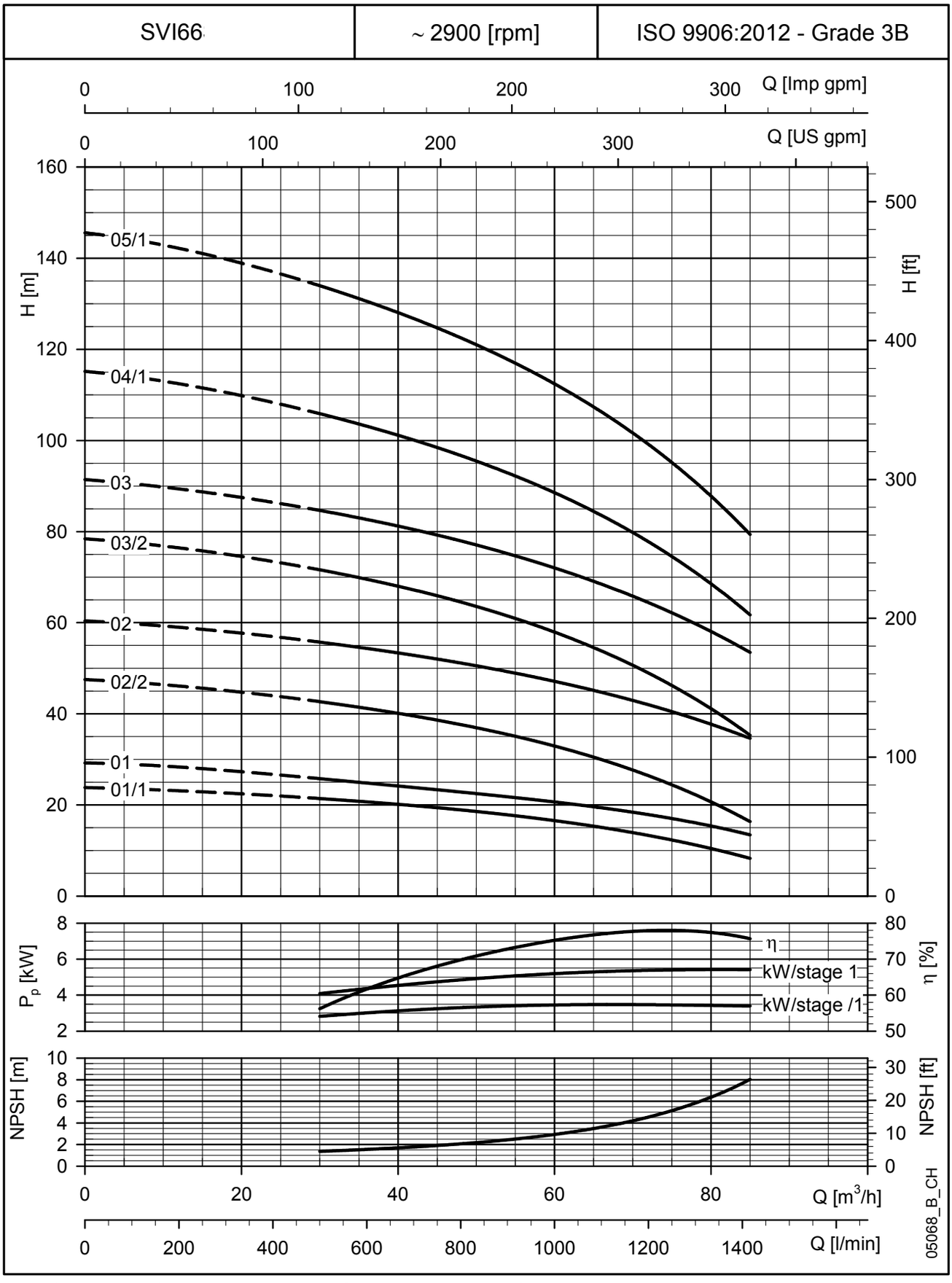


PUMP TYPE	MOTOR		DIMENSIONS (mm)							WEIGHT (kg)	
	kW	SIZE	L	L1	L2	L3	M	D1	D2	PUMP	ELECTRIC PUMP
SVI6601/1-01..40T/D	4	112	853	272	319	262	154	197	160	47	73
SVI6601-01..55T/D	5,5	132	929	272	375	282	168	214	300	45	83
SVI6602/2-02..75T/D	7,5	132	1011	362	367	282	191	256	300	52	109
SVI6602-02..110T/D	11	160	1107	362	428	317	191	256	350	54	124
SVI6603/2-03..150T/D	15	160	1263	452	494	317	240	313	350	57	159
SVI6603-03..185T/D	18,5	160	1263	452	494	317	240	313	350	58	160
SVI6604/1-04..220T/D	22	180	1353	542	494	317	240	313	350	69	190
SVI6605/1-05..300T/D	30	200	1620	632	671	317	285	408	400	84	292

svi66s-2p50-en_e_td

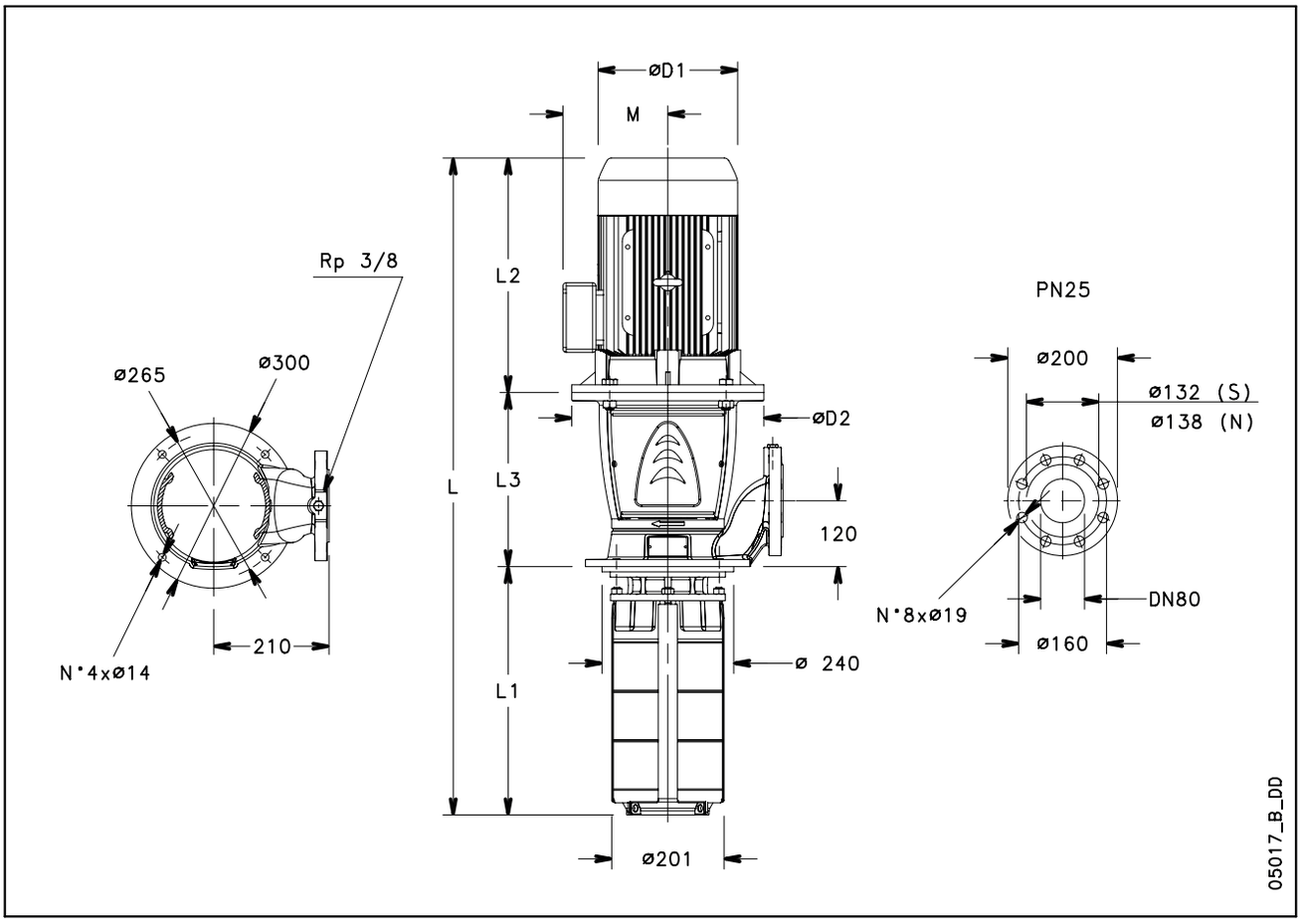
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

SVI66	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/sec.

DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES

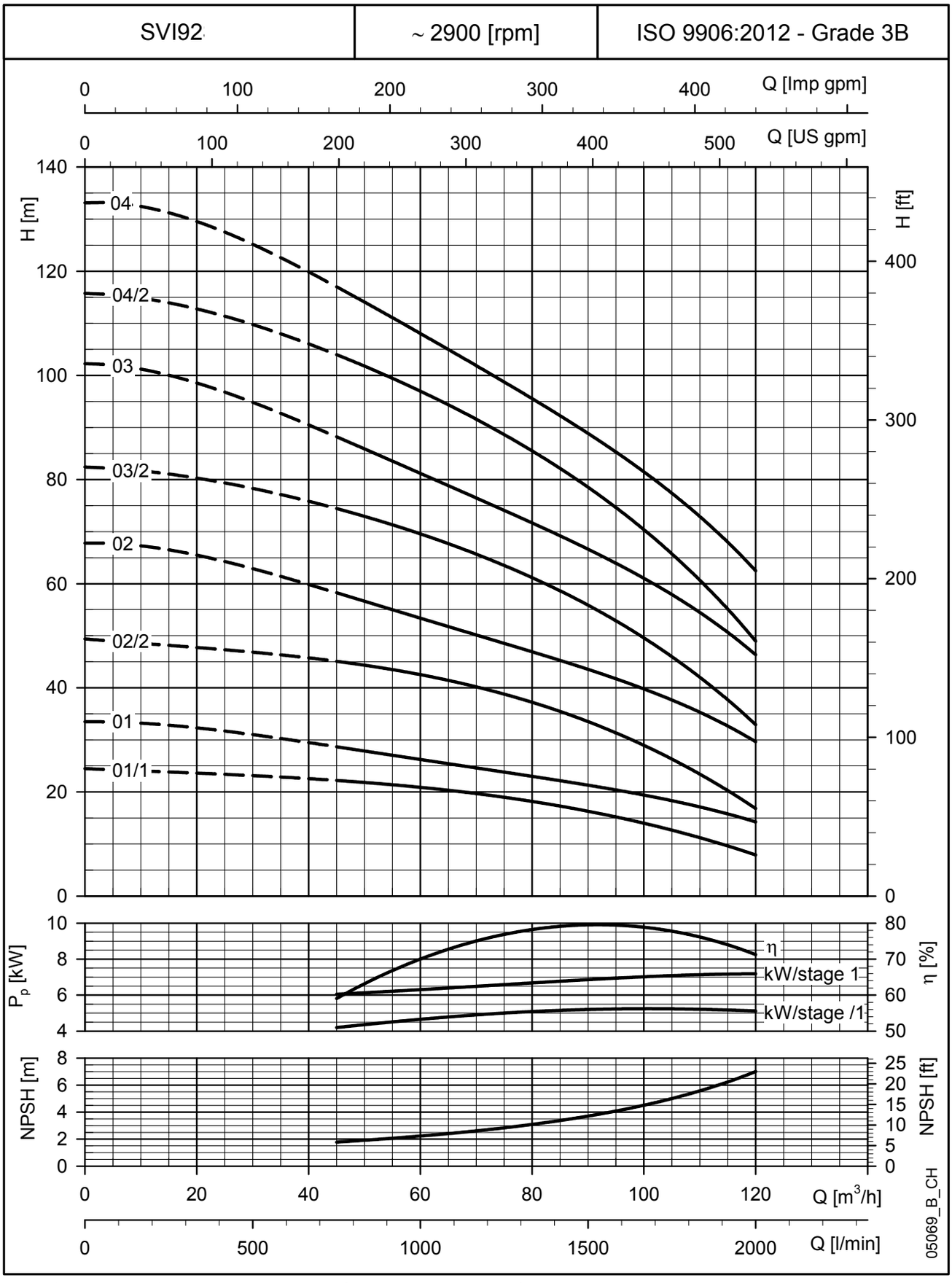


PUMP TYPE	MOTOR		DIMENSIONS (mm)							WEIGHT (kg)	
	kW	SIZE	L	L1	L2	L3	M	D1	D2	PUMP	ELECTRIC PUMP
SVI9201/1-01..55T/D	5,5	132	929	272	375	282	168	214	300	45	83
SVI9201-01..75T/D	7,5	132	921	272	367	282	191	256	300	44	101
SVI9202/2-02..110T/D	11	160	1107	362	428	317	191	256	350	53	123
SVI9202-02..150T/D	15	160	1173	362	494	317	240	313	350	53	155
SVI9203/2-03..185T/D	18,5	160	1263	452	494	317	240	313	350	65	167
SVI9203-03..220T/D	22	180	1263	452	494	317	240	313	350	58	179
SVI9204/2-04..300T/D	30	200	1530	542	671	317	285	408	400	81	289
SVI9204-04..300T/D	30	200	1530	542	671	317	285	408	400	81	289

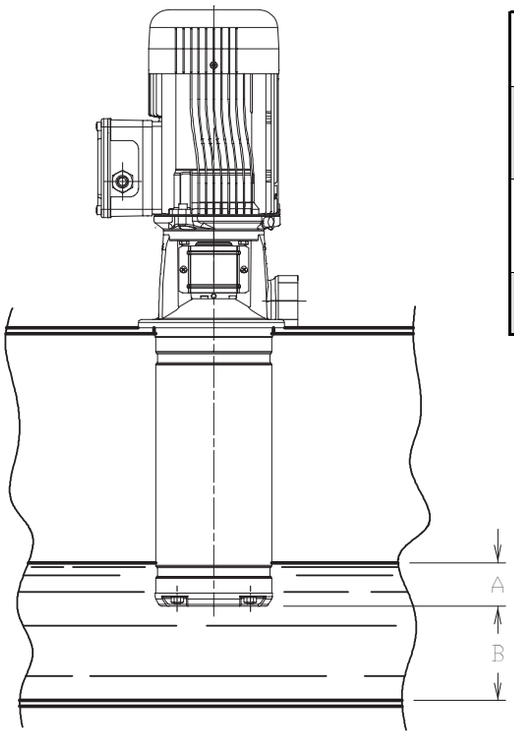
svi92s-2p50-en_e_td

OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

SVI92	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/sec.



PUMP TYPE	MINIMUM IMMERSION LEVEL A [mm]		DISTANCE FROM THE BOTTOM B [mm]
	WITH INDUCER	WITHOUT INDUCER	
1SVI 3SVI 5SVI	20	30	20
10SVI 15SVI 22SVI	20	30	25
SVI33-46 SVI66-92	-	60	25

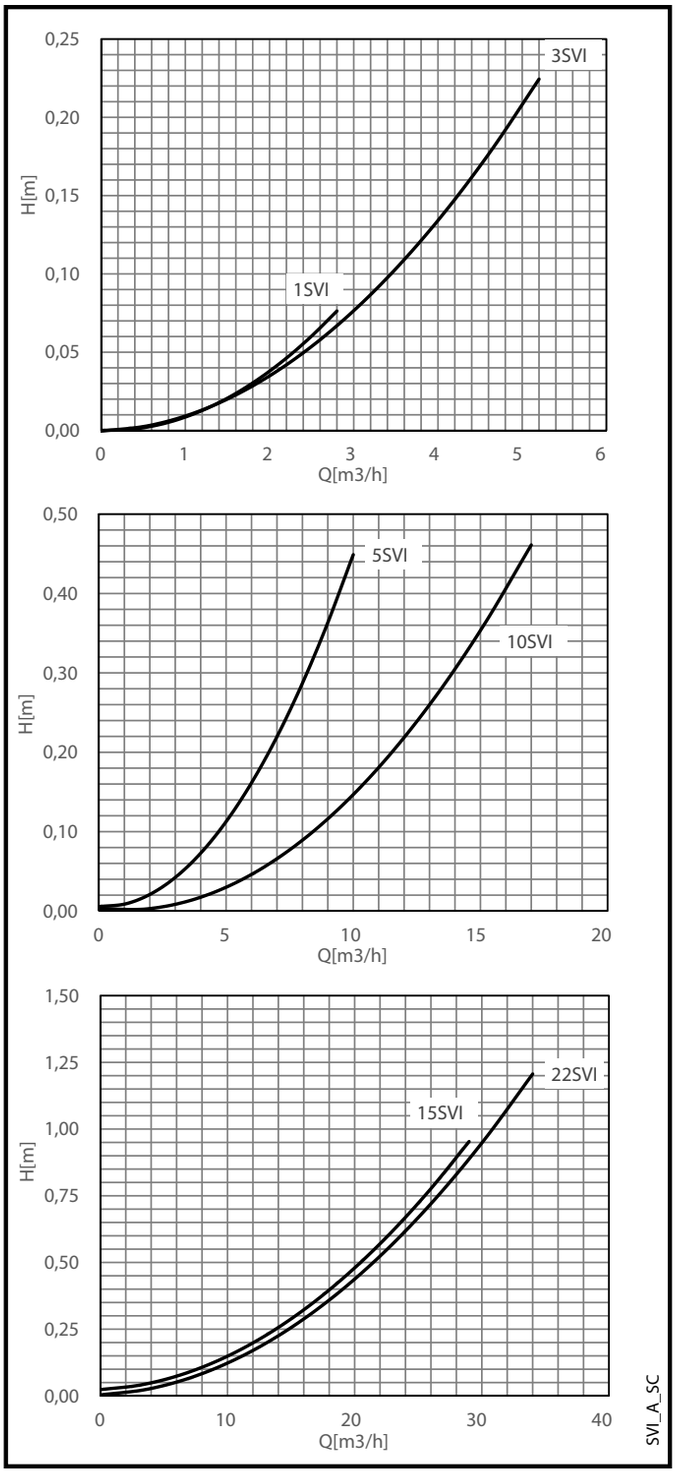
svi-liv-liq_b_td

05005_B_SC

These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/sec.

OPERATING CHARACTERISTICS AND DIMENSIONAL DATA

The charts below illustrate the pressure losses to be considered per empty stage when empty stages are used to extend the pump depth.



To calculate the head of a pump with empty stages you can do the calculation as shown below:

Example:

Pump type: 5SVI06-13; 6 impellers, 13 total stages as per nomenclature at page 9
Flow: 6 m^3/h
Head: 33,9 m

The head 33,9 m is read from the performance curve for an 5SVI06-06 pump, see page 31.

The number of empty stages is:
13 total stages - 6 impellers = 7 empty stages

From the pressure loss curve of 5SVI, it appears that the pressure loss of each empty chamber at 6 m^3/h is 0,16 m. This result in a total pressure loss of:
Total pressure loss = 0,16 x 7 = 1,12 m

The reduced head of the 5SVI06-13 pump including pressure losses caused by empty stages is:
Head = 33,9 - 1,12 = 32,78 m

In the SVI33,46,66 and 92 electric pumps, empty stages allow the passage of the liquid through a wide opening, eliminating pressure loss in the pump.

OPERATING CHARACTERISTICS AND DIMENSIONAL DATA

The immersion depth of e-SVI pump can be varied to meet the required depths of different tanks. The table below illustrates the number of total stages to be used to achieve the required depth. The pump head depends on the number of the impeller used (see head curves on the previous pages of this catalogue)

NUMBER OF STAGE	IMMERSION DEPTH (mm)									
	PUMP TYPE									
	1SVI	3SVI	5SVI	10SVI	15SVI	22SVI	SVI 33	SVI 46	SVI 66	SVI 92
1	-	-	-	-	-	-	257	257	272	272
2	119	119	134	177,5	225,5	225,5	332	332	362	362
3	139	139	159	209,5	273,5	273,5	407	407	452	452
4	159	159	184	241,5	321,5	321,5	482	482	542	542
5	179	179	209	273,5	369,5	369,5	557	557	632	632
6	199	199	234	305,5	417,5	417,5	632	632	722	722
7	219	219	259	337,5	465,5	465,5	707	707	812	812
8	239	239	284	369,5	513,5	513,5	782	782	902	902
9	259	259	309	401,5	561,5	561,5	857	857	992	992
10	279	279	334	433,5	609,5	609,5	932	932	1082	1082
11	299	299	359	465,5	657,5	657,5	1007	1007		
12	319	319	384	497,5	705,5	705,5	1082	1082		
13	339	339	409	529,5	753,5	753,5				
14	359	359	434	561,5	801,5	801,5				
15	379	379	459	593,5	849,5	849,5				
16	399	399	484	625,5	897,5	897,5				
17	419	419	509	657,5	945,5	945,5				
18	439	439	534	689,5	993,5	993,5				
19	459	459	559	721,5	1041,5	1041,5				
20	479	479	584	753,5						
21	499	499	609	785,5						
22	519	519	634	817,5						
23	539	539	659	849,5						
24	559	559	684	881,5						
25	579	579	709	913,5						
26	599	599	734	945,5						
27	619	619	759	977,5						
28	639	639	784	1009,5						
29	659	659	809	1041,5						
30	679	679	834							
31	699	699	859							
32	719	719	884							
33	739	739	909							
34	759	759	934							
35	779	779	959							
36	799	799	984							
37	819	819	1009							
38	839	839								
39	859	859								
40	879	879								
41	899	899								
42	919	919								
43	939	939								
44	959	959								
45	979	979								
46	999	999								
47	1019	1019								

svi-en_a_tcm

TOTAL WEIGHT CALCULATION

It is possible to calculate the total weight of the pump with empty stages from the weight of the pump with full stages shown in the dimensional tables in this catalog. The table below illustrates for each size the constant weight factor of an empty stage.

PUMP TYPE	WEIGHT (kg)
1-3SVI	0,20
5SVI	0,24
10SVI	0,57
15-22SVI	0,79
SVI33-46	1,35
SVI66-92	1,72

To calculate the real weight you can perform the calculation as shown below:

Example:

Pump type: 5SVI06-13; 6 impellers, 13 total stages as per nomenclature at page 9
Pump weight: 9 kg

The number of empty stages is:
13 total stages - 6 impellers = 7 empty stages

From the above table for size 5SVI the weight of each empty stage is 0,24 kg.
This results in a total weight due to the empty stages of:
Total weight of empty stages = 0.24 x 7 = 1.68 kg

The total weight of the 5SVI06-13 pump is:
Total weight = 9 + 1,68 = 10,68 kg