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POMP  IRECT

SVI Series
2, 4, 8, 16
33, 46, 66, 92

Submersible Vertical
Electric Pumps
equipped with high
efficiency PLM motors

50 Hz



Engineered for life

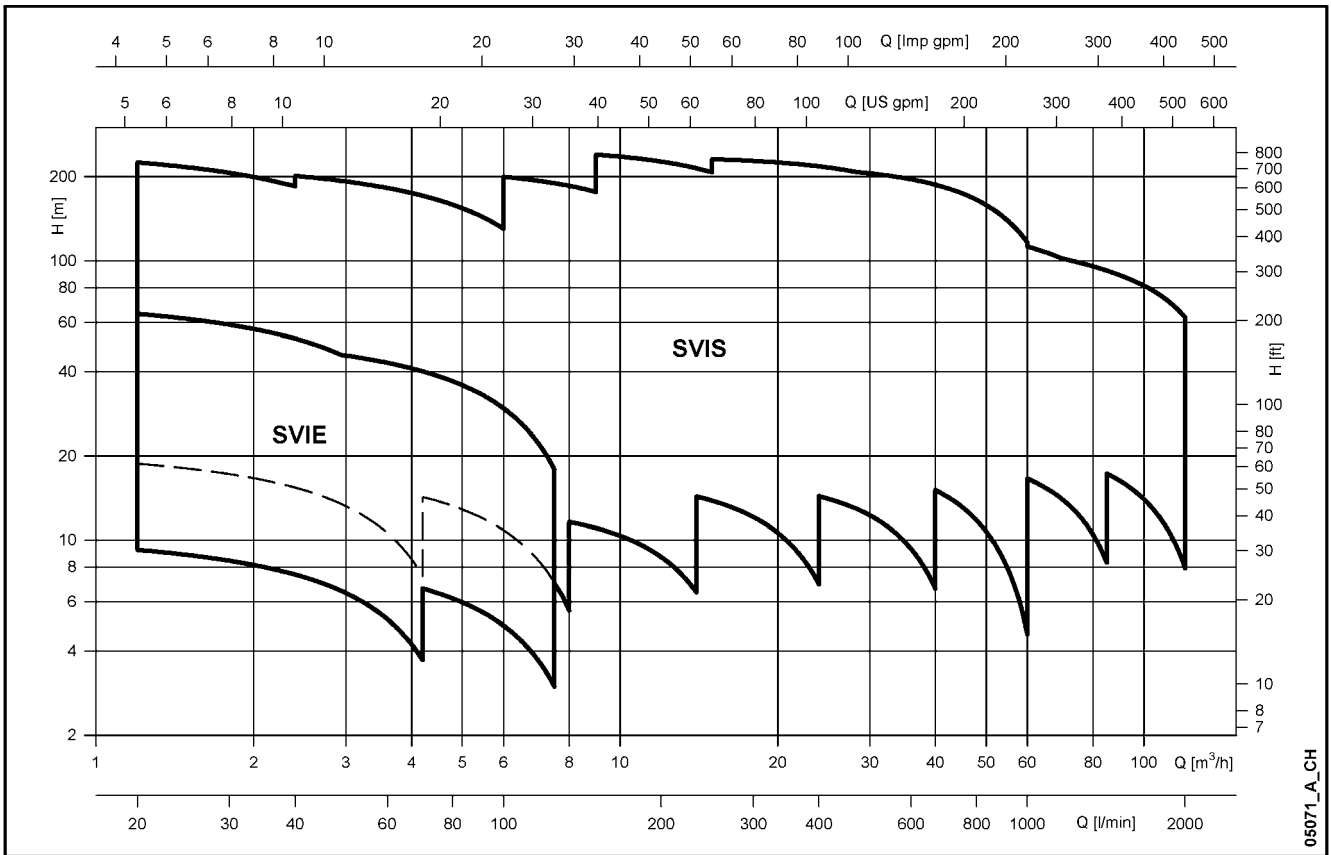
Tel. 0294-457712 Fax 0294-457713



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SVI SERIES HYDRAULIC PERFORMANCE RANGE AT 50 Hz



05071_A_CH

Submersible Vertical Electric pumps

SVI Series with high efficiency PLM motors

MARKET SECTORS

INDUSTRIAL, CIVIL.

APPLICATIONS

- Pumping of coolants, lubricants and condensate.
- Machine tools, welders, engine test stands.
- Cooling systems.
- Washing systems.
- Boosters.



SPECIFICATIONS PUMP

SVI is a vertical-axis pump with submersible body, equipped with standard motor (for S and N versions).

- **Delivery:** up to 120 m³/h.
- **Head:** up to 240 m.
- **Liquid temperature** for the standard versions:
 - from -10°C to +90°C for S and N versions with coupling.
 - from -10°C a +60°C for close-coupled E versions.
- Maximum ambient temperature: +40°C.
- **Mechanical seal** in Ceramic/Carbon/FPM for the close-coupled E version and in Silicon Carbide/Carbon/FPM for S and N versions with coupling. For SVI 33-46-66-92 models, mechanical seal can be replaced without removing the motor from the pump.
- Tank coupling flange in compliance with EN 12157 (ex DIN 5440) for SVI 2-4 models.
- Standard installation in vertical position; horizontal installation on request.
- These pumps can handle clean liquids free of abrasive substances or fibres, with kinematic viscosity up to 37mm²/sec, with suitably sized motor.
- Minimum level of suction liquid: 25 mm for SVI 2-4-8-16 models and 80 mm for SVI 33-46-66-92.

- Base in the suction side with filter in order to avoid damages due to solids entrance.
- Tested in compliance with ISO 9906 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).
- Longer pump columns (from coupling flange to suction base) are available on request. Possible variants are indicated in each model's dimensions table.

MOTORS

- 2 poles motors with squirrel cage in short circuit, enclosed construction with external ventilation.
- Construction design:
 - Close-coupled for E version.
 - Standard motor for S and N versions.
- **From 3 kW to 22 kW pumps are equipped with PLM motors with efficiency values that fall within the range normally referred to as efficiency class 1.** Other motor brands are used for 30 kW power.
- IP55 **protection.**
- Class F **Insulation.**
- Performances according to EN 60034-1.
- Standard voltage:
 - 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.

CHARACTERISTICS OF SVI 2, 4 SERIES (E, EN VERSIONS)

- Vertical pump with submersible body with impellers, diffusers, outer sleeve, suction base and filter made entirely of stainless steel. Adapter with delivery port in cast iron.
- "N" version made entirely of AISI 316 stainless steel.
- Motor with special shaft extension.
- Standard version for temperatures ranging from -10°C to +60°C.

CHARACTERISTICS OF SVI 2, 4, 8, 16 SERIES (S, N VERSIONS)

- Vertical pump with submersible body.
- "S" version with standard motor; impellers, diffusers, outer sleeve, suction base and filter made entirely of stainless steel. Adapter with delivery port in cast iron.
- "N" version with standard motor, made entirely of AISI 316 stainless steel.
- Reduced axial thrusts enable the use of standard motors that are easily found in the market.
- Mechanical seal according to EN 12756 (ex DIN 24960) e ISO 3069.
- Standard version for temperatures ranging from -10°C to +90°C.

CHARACTERISTICS OF SVI 33, 46, 66, 92 SERIES (S, N VERSIONS)

- Vertical pump with submersible body.
- "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.
- Four new sizes (SVI 33-46-66-92) entirely re-designed; improved efficiency and performances.
- Motor versions, depending on the model:
 - with standard bearings for powers up to 11 kW.
 - with reinforced bearings, able to support the vertical axial thrust of the pump for powers ≥ 15 kW (SVI3306/2, SVI4604/2, SVI9202 excluded, with standard bearings).
- Balanced mechanical seal (SiC/C/FPM as standard) according to EN 12756 (ex DIN 24960) and ISO 3069, which can be replaced without removing the motor from the pump.
- Standard version for temperatures ranging from -10°C e +90°C.

OPTIONAL FEATURES

- Single-phase version.
- 4 poles version.
- Special voltages.
- 60 Hz frequency.
- Special materials for mechanical seals and gaskets.
- Horizontal installation.

ACCESSORIES

- Adapter ring which allows compatibility with the previous models SVI 30-60 (keeping the same discharge port axle height from the flange and the same centering to the tank).

GENERAL CHARACTERISTICS

2-POLE SVI

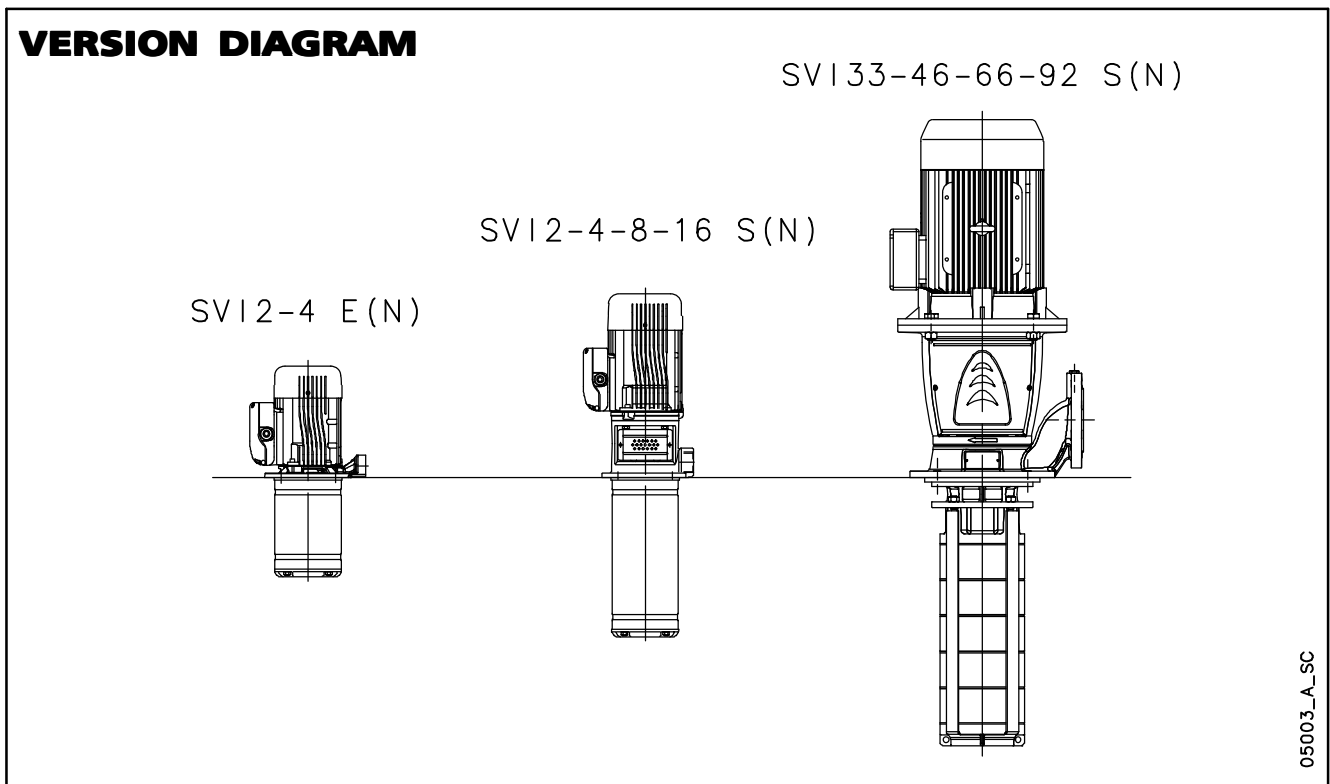
	2E	4E	2S	4S	8S	16S	33S	46S	66S	92S
Max efficiency flow (m ³ /h)	3	5,5	3	5,5	10,5	16	33	42	74	92
Flow range (m ³ /h)	1,2÷4,2	2,4÷7,2	1,2÷4,2	2,4÷7,2	6÷14	9÷24	15÷40	22÷60	30÷85	45÷120
Maximum pressure (bar)	8	6	26	23	22	25	24	22	15	13
Motor power (kW)	0,37÷0,9	0,37÷0,9	0,37÷3	0,37÷4	0,75÷7,5	1,1÷15	2,2÷30	3÷30	4÷30	5,5÷30
Max η (%) of pump	42	57	42	59,5	61,5	64,5	76,5	79	78	79,5
Standard temperature (°C)	-10 +60		-10 +90							

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SVI VERSIONS

	VERSION	HYDRAULIC	UPPER HEAD	DELIVERY PORT
SVI2-4E	CLOSE-COUPLED	AISI 304	CAST IRON	Threaded Rp 3/4
SVI2-4EN	CLOSE-COUPLED	AISI 316	AISI 316	Threaded Rp 3/4
SVI2-4S	WITH COUPLING	AISI 304	CAST IRON	Threaded Rp 1 1/4
SVI2-4N	WITH COUPLING	AISI 316	AISI 316	Threaded Rp 1 1/4
SVI8-16S	WITH COUPLING	AISI 304	CAST IRON	Threaded Rp 2
SVI8-16N	WITH COUPLING	AISI 316	AISI 316	Threaded Rp 2
SVI33-46-66-92S	WITH COUPLING	AISI 304	CAST IRON	Flanged DN 80
SVI33-46-66-92N	WITH COUPLING	AISI 316	AISI 316	Flanged DN 80

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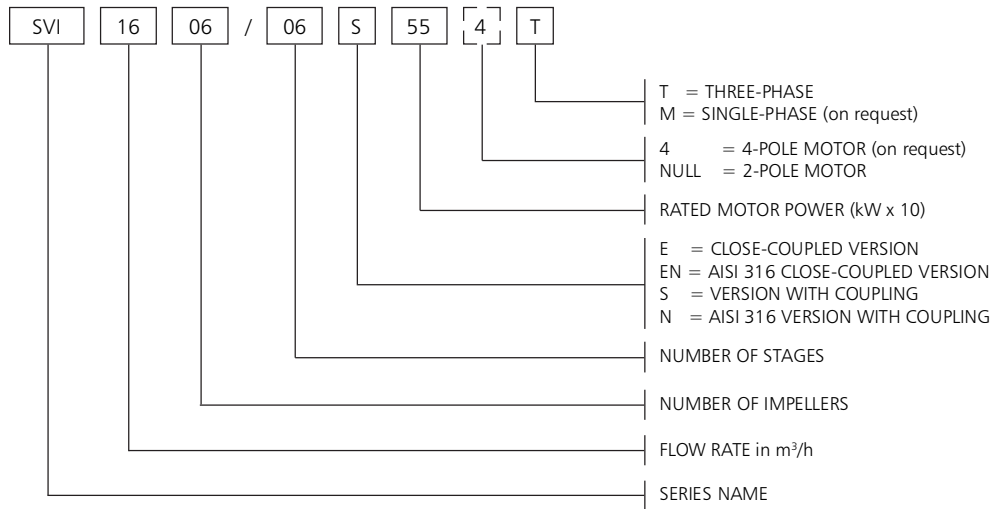


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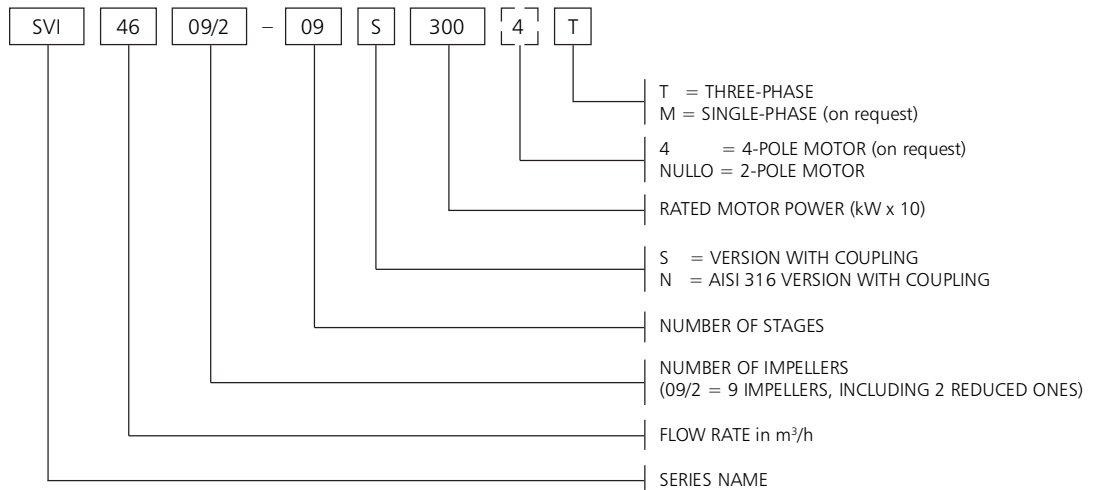
SVI 2, 4, 8, 16



EXAMPLE : SVI1606/06S55T

SVI Series Electric pump, flow rate 16 m³/h, number of impellers 6, number of stages 6, S version with coupling, rated motor power 5,5 kW, 50 Hz version, three-phase.

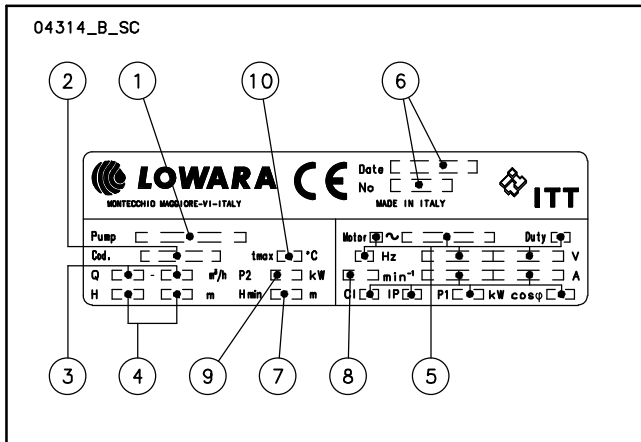
SVI 33, 46, 66, 92



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.

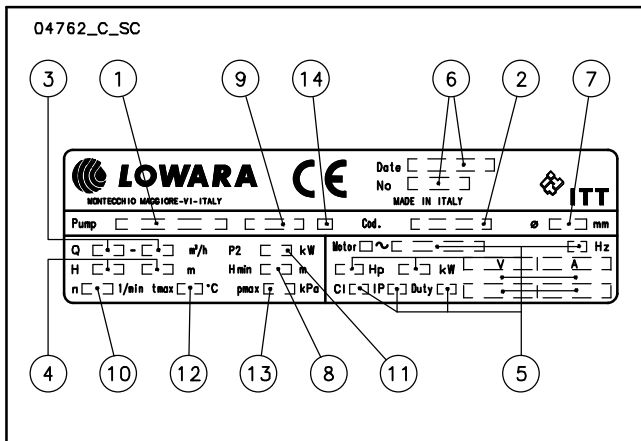
RATING PLATE SVI 2, 4 (E, EN)



LEGEND

- 1 - Electric pump type
- 2 - Code
- 3 - Delivery range
- 4 - Head range
- 5 - Motor type
- 6 - Date of manufacturing and serial number
- 7 - Minimum head
- 8 - Speed
- 9 - Rated power
- 10 - Maximum operating temperature

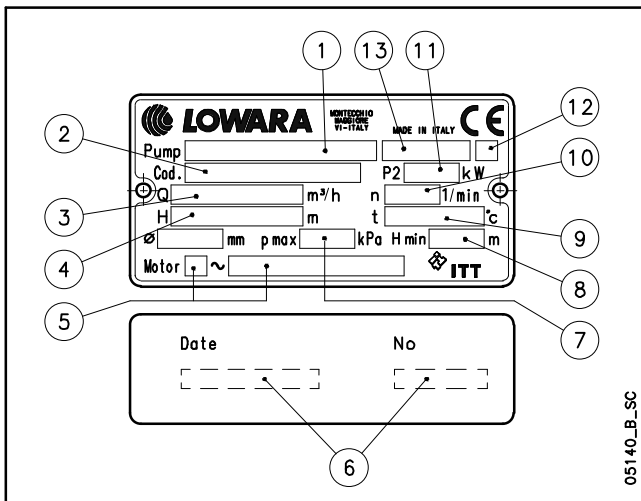
SVI 2, 4, 8, 16 (S, N)



LEGEND

- 1 - Electric pump type
- 2 - Code
- 3 - Delivery range
- 4 - Head range
- 5 - Motor type
- 6 - Date of manufacturing and serial number
- 7 - Impeller diameter
- 8 - Minimum head
- 9 - Mechanical seal material identification code
- 10 - Speed
- 11 - Rated power
- 12 - Maximum operating temperature
- 13 - Maximum operating pressure
- 14 - O-ring material identification code

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



LEGEND

- 1 - Electric pump type
- 2 - Code
- 3 - Delivery range
- 4 - Head range
- 5 - Motor type
- 6 - Date of manufacturing and serial number
- 7 - Maximum operating pressure *
- 8 - Minimum head
- 9 - Maximum operating temperature *
- 10 - Speed
- 11 - Rated power
- 12 - O-ring material identification code
- 13 - Mechanical seal material identification code

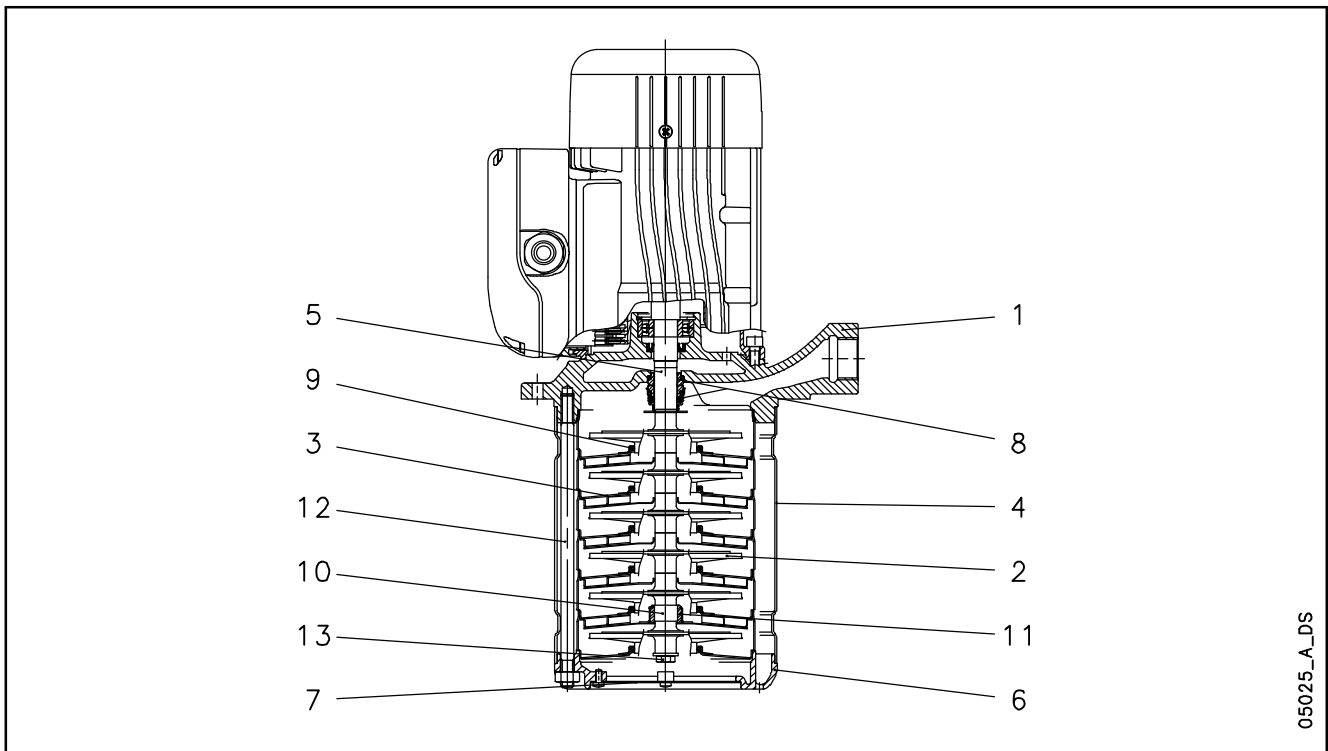
* To be verified on pressure/temperature limit diagrams (pag. 14)



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SVI 2, 4 (E, EN) SERIES ELECTRIC PUMP CROSS SECTION AND MAIN COMPONENTS



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SVI 2, 4 (E VERSIONS)

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
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	Mechanical seal	Ceramic / Carbon / FPM		
9	Elastomers	FPM		
10	Shaft sleeve	Tungsten carbide		
11	Bushing	Ceramic (Alumina)		
12	Tie rods	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
13	Screws	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304

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SVI 2, 4 (EN VERSIONS)

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	Mechanical seal	Ceramic / Carbon / FPM		
9	Elastomers	FPM		
10	Shaft sleeve	Tungsten carbide		
11	Bushing	Ceramic (Alumina)		
12	Tie rods	Acciaio inox	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
13	Screws	Acciaio inox	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316

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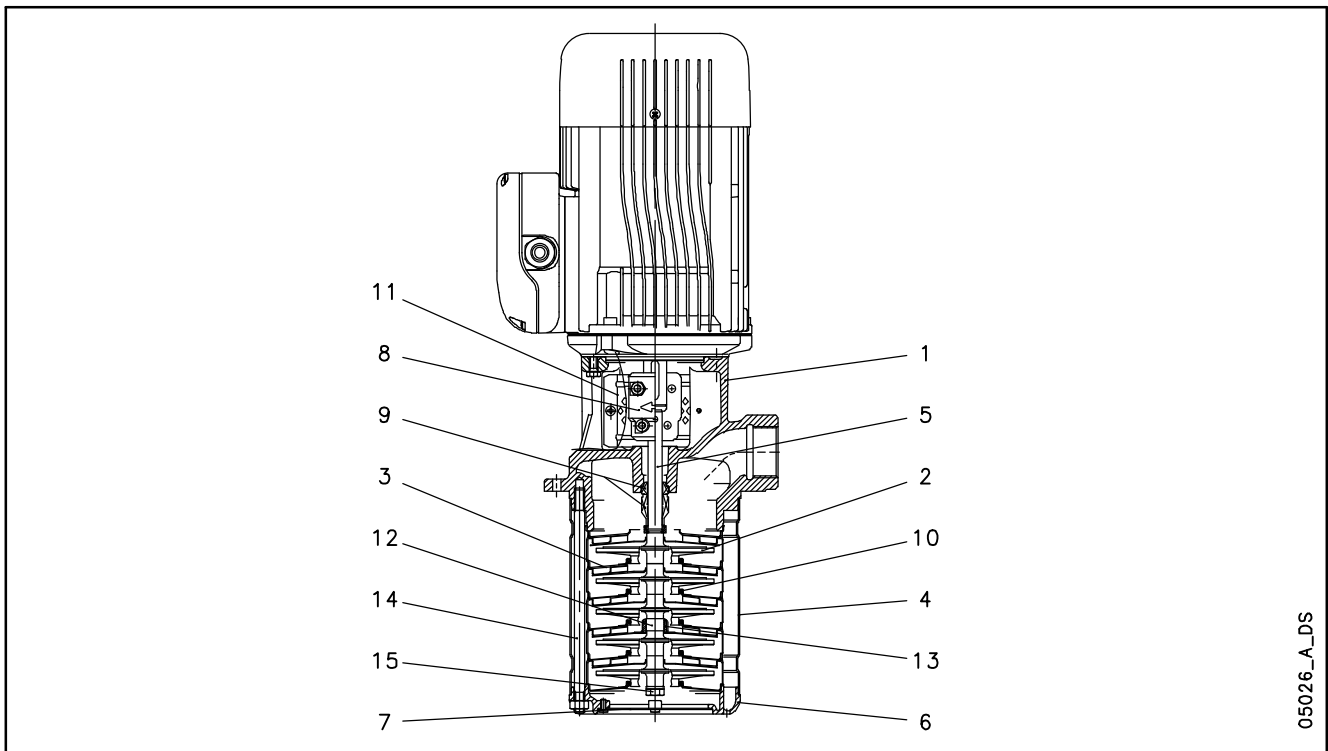
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SVI 2, 4, 8, 16 (S, N) SERIES ELECTRIC PUMP CROSS SECTION AND MAIN COMPONENTS



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SVI 2, 4, 8, 16 (S VERSIONS)

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 (up to 4 kW)	Aluminium	EN 1706-AC-ALSi11Cu2 (Fe) (AC46100)	-
	Coupling (for higher powers)	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
9	Mechanical seal	Silicon carbide / Carbon / FPM		
10	Elastomers	FPM		
11	Coupling protection	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
12	Shaft sleeve	Tungsten carbide		
13	Bushing	Ceramic (Alumina)		
14	Tie rods	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
15	Screws	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316

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SVI 2, 4, 8, 16 (N VERSIONS)

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 (up to 4 kW)	Aluminium	EN 1706-AC-ALSi11Cu2 (Fe) (AC46100)	-
	Coupling (for higher powers)	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
9	Mechanical seal	Silicon carbide / Carbon / FPM		
10	Elastomers	FPM		
11	Coupling protection	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
12	Shaft sleeve	Tungsten carbide		
13	Bushing	Ceramic (Alumina)		
14	Tie rods	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
15	Screws	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316

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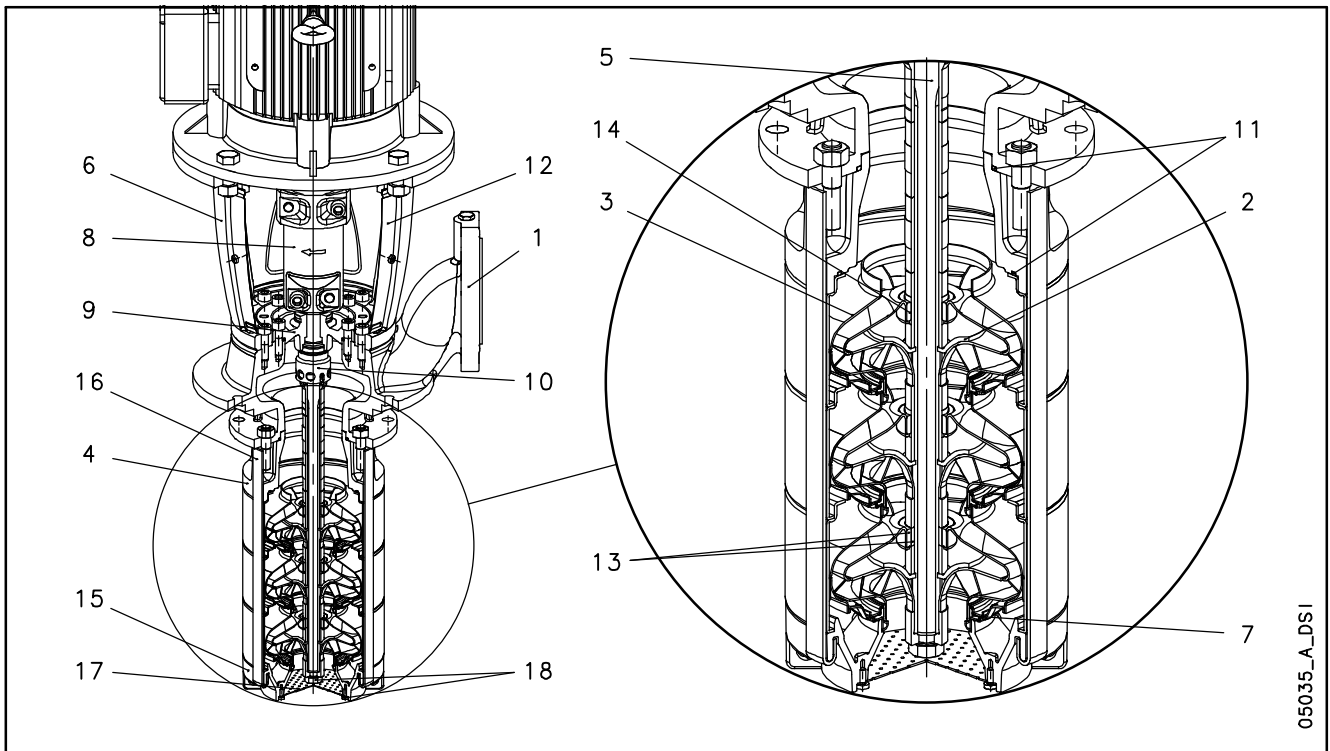
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SVI 33, 46, 66, 92 (S, N) SERIES ELECTRIC PUMP CROSS SECTION AND MAIN COMPONENTS



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

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 / FPM		
11	Elastomers	FPM		
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

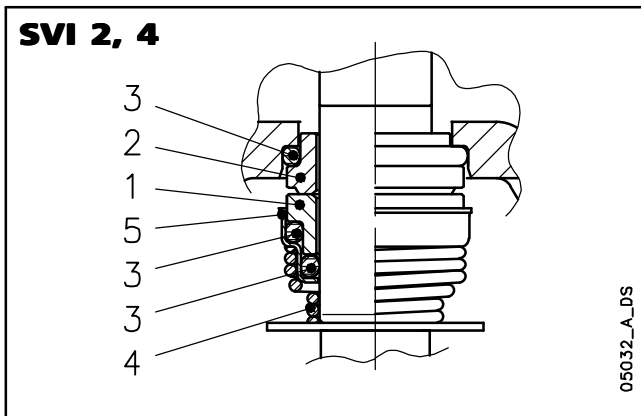
SVI 33, 46, 66, 92 (N VERSIONS)

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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 / FPM		
11	Elastomers	FPM		
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

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SVI (E, EN) SERIES MECHANICAL SEAL, ACCORDING TO EN 12756



LIST OF MATERIALS

POSITION 1 - 2	POSITION 3	POSITION 4 - 5
V : Ceramic	V : FPM	G : AISI 316
B : Resin impregnated carbon	E : EPDM	
C : Special resin impregnated carbon		
Q ₁ : Silicon Carbide		

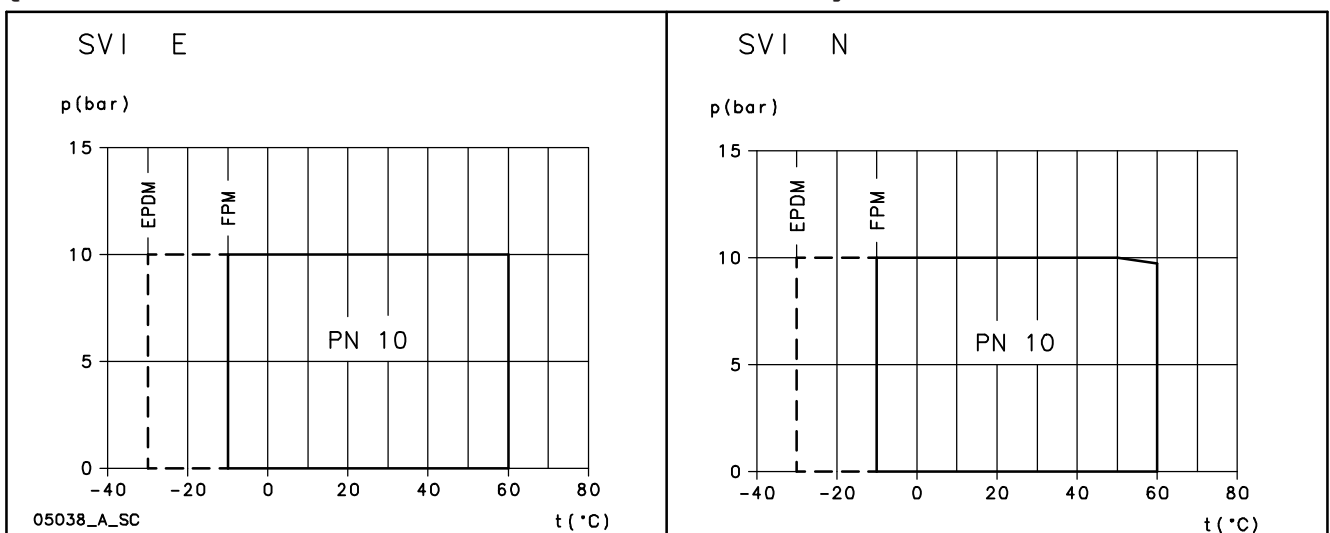
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SEAL TYPES

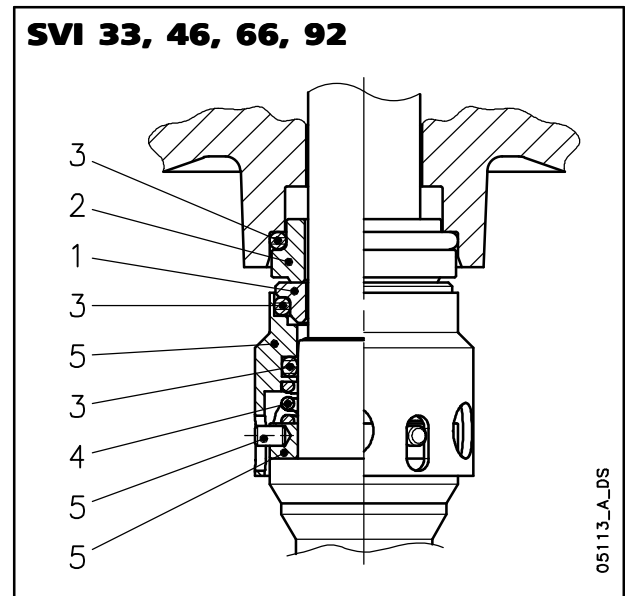
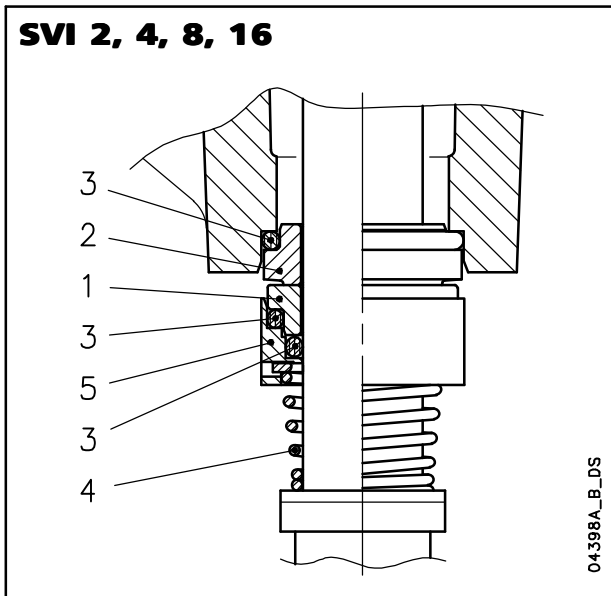
TYPE	POSITION					TEMPERATURE (°C)
	1 ROTATING PART	2 STATIONARY PART	3 ELASTOMERS	4 SPRINGS	5 OTHER COMPONENTS	
STANDARD MECHANICAL SEAL						
VBVGG	V	B	V	G	G	-10 +60
OTHER TYPES OF MECHANICAL SEAL						
Q ₁ Q ₁ EGG	Q ₁	Q ₁	E	G	G	-30 +60
Q ₁ CVGG	Q ₁	C	V	G	G	-10 +60
Q ₁ Q ₁ VGG	Q ₁	Q ₁	V	G	G	-10 +60

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COMPLETE PUMP PRESSURE / TEMPERATURE OPERATING LIMITS (WITH ANY OF THE SEALS LISTED ABOVE)



SVI (S, N) SERIES MECHANICAL SEALS, ACCORDING TO EN 12756



LIST OF MATERIALS

POSITION 1 - 2	POSITION 3	POSITION 4 - 5
Q ₁ : Silicon Carbide	V : FPM	G : AISI 316
B : Resin impregnated carbon	E : EPDM	
	T : PTFE	

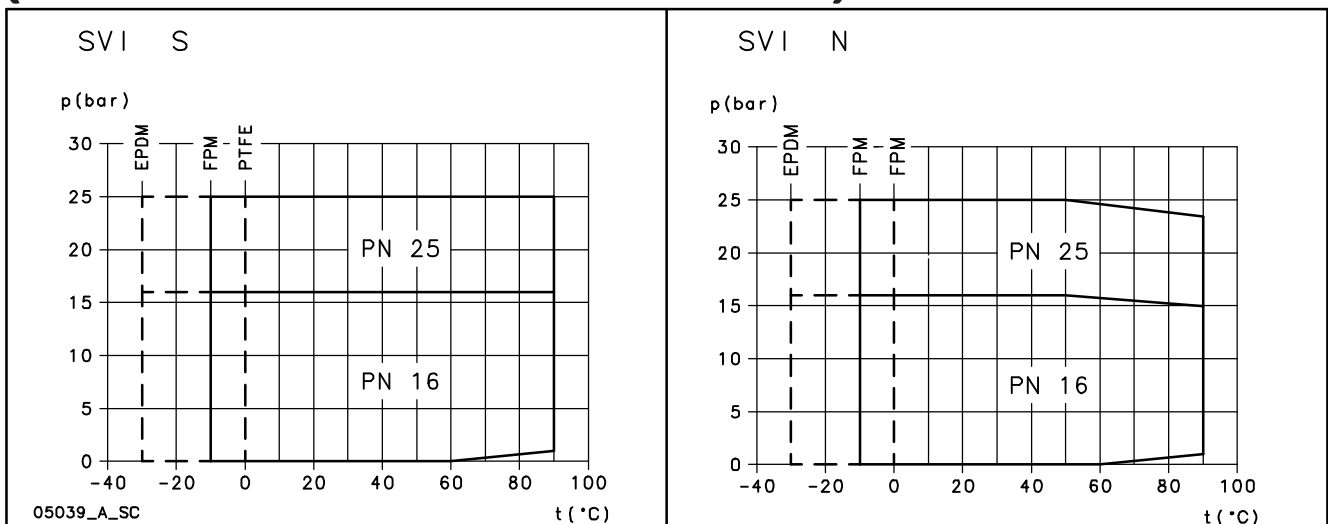
SEAL TYPES

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TYPE	POSITION					TEMPERATURE (°C)
	1 ROTATING PART	2 STATIONARY PART	3 ELASTOMERS	4 SPRINGS	5 OTHER COMPONENTS	
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_a_tc

COMPLETE PUMP PRESSURE / TEMPERATURE OPERATING LIMITS (WITH ANY OF THE SEALS LISTED ABOVE)



MOTORS

- Standard Lowara motors with powers up to 22 kW (included) for the 2-pole version. 4-poles version on request.
- The normalized Lowara PLM motors have efficiency values that fall within the range normally referred to as **efficiency class 1**.
- Short-circuit squirrel-cage motor (TEFC), enclosed construction with external ventilation.
- IP55 protection.
- Class F insulation.
- Performance according to EN 60034-1.
- Standard voltage.
- Cable gland with standard passage dimensions according to EN 50262 (metric thread).
- **Single-phase** version: 220-240 V 50 Hz (on request).

- **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.
Overload protection to be provided by the user.

- **Type of motor used:**
2-Pole

- Three-phase: Lowara SM (up to 2,2 kW).
Lowara PLM (from 3 to 22 kW).
Other brand motors (30 kW).

SVI (E, EN) SERIES THREE-PHASE 50 Hz, 2-POLE MOTORS

MOTOR TYPE		INPUT CURRENT in (A) THREE-PHASE		DATA FOR 400 V 50 Hz VOLTAGE					
kW	IEC SIZE *	Δ	Y	min ⁻¹	Is / In	η %	cosφ	Tn Nm	Ts/Tn**
		220-240 V	380-415 V						
0,37	63	1,71	0,99	2745	3,90	63,7	0,69	1,04	3,46
0,45	63	2,36	1,36	2765	4,14	64,7	0,66	1,38	4,14
0,55	63	3,50	1,52	2765	4,29	69,7	0,68	1,73	4,11
0,75	71	3,50	2,02	2855	5,81	74,3	0,72	2,51	3,76
0,9	71	4,24	2,45	2855	6,44	77,6	0,72	3,18	4,20

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

svi-e-mott-2p50-en_a_te

** Ts/Tn = ratio between starting torque and nominal torque.

SVI (S, N) SERIES THREE-PHASE 50 Hz, 2-POLE MOTORS

MOTOR TYPE			INPUT CURRENT in (A) THREE-PHASE				DATA FOR 400 V 50 Hz VOLTAGE					
kW	IEC SIZE *	CONSTRUCTION DESIGN	Δ	Y	Δ	Y	min ⁻¹	Is / In	η %	cosφ	Tn Nm	Ts/Tn**
			220-240 V	380-415 V	380-415 V	660-690V						
0,37	71R	B14	2,32	1,34	-	-	2790	4,23	64,1	0,62	1,27	4,50
0,55	71	B14	2,48	1,43	-	-	2825	5,95	75,4	0,73	1,86	3,99
0,75	80R	B14	3,50	2,02	-	-	2855	5,81	74,3	0,72	2,51	3,76
1,1	80	B14	4,52	2,61	-	-	2875	6,78	78,9	0,77	3,65	3,49
1,5	90R	B14	5,98	3,45	-	-	2875	7,04	80,1	0,78	4,98	3,83
2,2	90R	B14	8,71	5,03	-	-	2860	7,32	81,1	0,78	7,34	4,12
3	100R	B14	10,8	6,25	-	-	2880	8,25	86,7	0,80	9,96	4,02
4	112R	B14	-	-	7,71	4,45	2900	9,51	89,1	0,84	13,2	3,93
5,5	132R	B5	-	-	10,4	6,00	2895	10,3	89,0	0,86	18,2	4,47
7,5	132	B5	-	-	13,9	8,03	2925	9,52	89,9	0,87	24,5	3,24
11	160R	B5	-	-	20,2	11,7	2915	9,49	91,2	0,86	36,0	3,57
15	160	B5	-	-	26,2	15,1	2945	8,23	92,3	0,89	48,6	2,37
18,5	160	B5	-	-	33,4	19,3	2955	9,25	93,1	0,86	59,8	2,62
22	180R	B5	-	-	37,9	21,9	2950	9,37	93,1	0,90	71,2	2,68
30	200	B5	-	-	54	31	2950	6,8	92,5	0,87	97	2,4

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

svi-s-mott-2p50-en_a_te

** Ts/Tn = ratio between starting torque and nominal torque.

Tel. 0294-457712 Fax 0294-457713

MOTOR NOISE

The tables below show the mean sound pressure levels (Lp) measured at 1 meter's distance in a free field according to the A curve (ISO 1680 standard).

The noise values are measured with idling 50 Hz motor with a tolerance of 3 dB (A).

SVI (E, EN) SERIES THREE-PHASE 50 Hz, 2-POLE MOTORS

POWER kW	MOTOR TYPE IEC SIZE	NOISE LpA dB
0,37	63	<70
0,45	63	<70
0,55	63	<70
0,75	71	<70
0,9	71	<70

SVI (S, N) SERIES THREE-PHASE 50 Hz, 2-POLE MOTORS

POWER kW	MOTOR TYPE IEC SIZE*	RUMOROSITA' 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	74

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

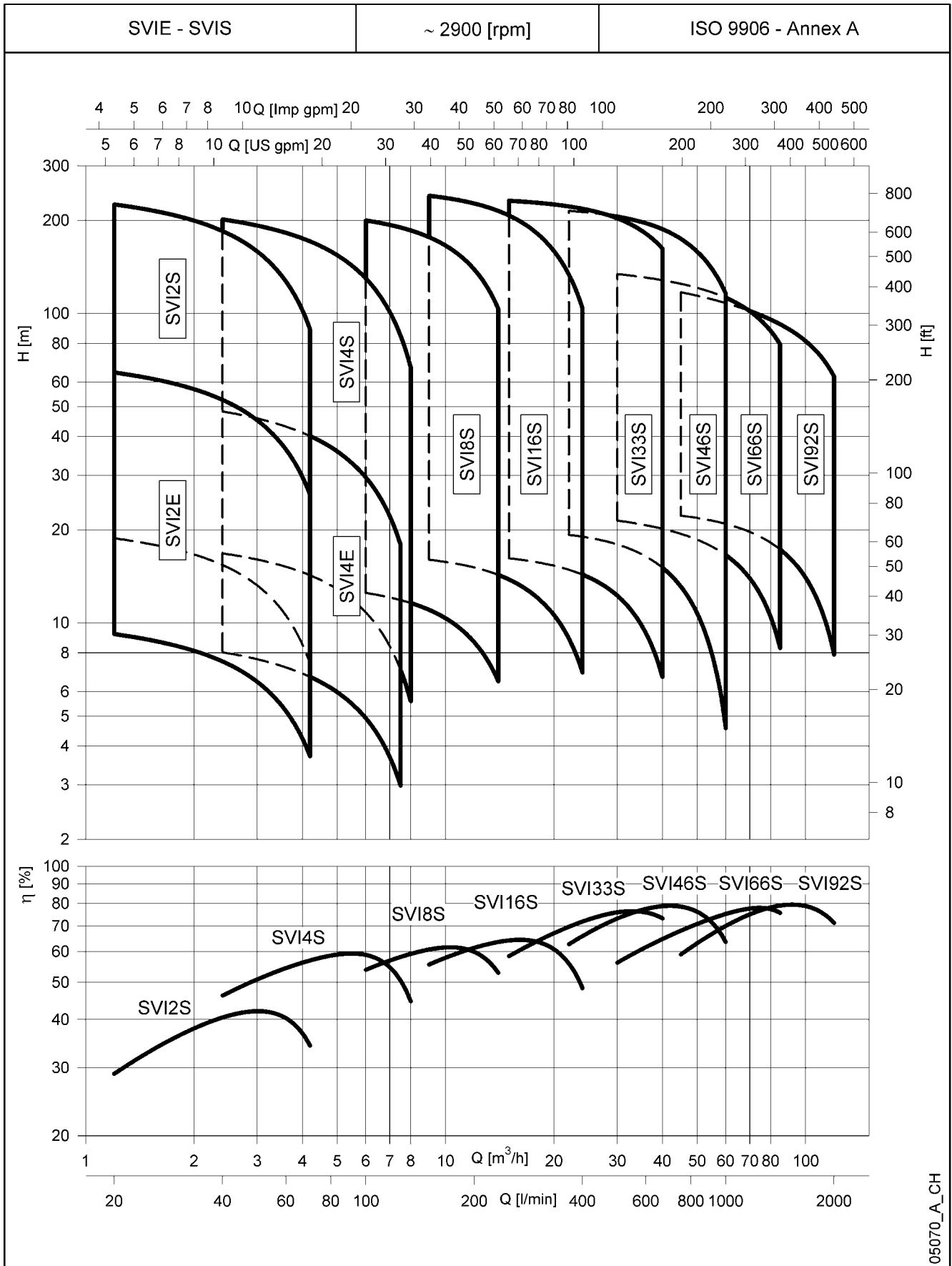
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POMPODIRECT

SVI SERIES HYDRAULIC PERFORMANCE RANGE AT 50 Hz



05070_A_CH



ITT



SVI 2, 4 SERIES

TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 2 POLES

PUMP TYPE	RATED POWER		Q = DELIVERY											
			V _{min} 0	20	30	40	50	60	70	80	90	100	110	120
	kW	HP	m ³ /h 0	1,2	1,8	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,2
H = TOTAL HEAD METRES COLUMN OF WATER														
SVI 201E	0,37	0,5	10,6	9,2	8,4	7,5	6,5	5,2	3,7					
SVI 202E	0,37	0,5	21,2	18,4	16,8	15,0	12,9	10,4	7,4					
SVI 203E	0,45	0,6	31,8	27,6	25,3	22,5	19,4	15,6	11,1					
SVI 204E	0,55	0,75	42,4	36,9	33,7	30,1	25,8	20,8	14,8					
SVI 205E	0,75	1	53,0	46,1	42,1	37,6	32,3	26,0	18,6					
SVI 206E	0,75	1	63,7	55,3	50,5	45,1	38,7	31,2	22,3					
SVI 207E	0,9	1,2	74,3	64,5	58,9	52,6	45,2	36,4	26,0					
SVI 401E	0,37	0,5	9,5			8,0	7,6	7,2	6,7	6,2	5,6	4,9	4,2	3,4
SVI 402E	0,37	0,5	19,0			16,1	15,3	14,4	13,4	12,3	11,2	9,9	8,4	6,8
SVI 403E	0,45	0,6	28,5			24,1	22,9	21,5	20,1	18,5	16,7	14,8	12,6	10,2
SVI 404E	0,55	0,75	38,0			32,1	30,5	28,7	26,8	24,7	22,3	19,7	16,8	13,6
SVI 405E	0,75	1	47,5			40,2	38,1	35,9	33,5	30,8	27,9	24,6	21,0	17,1
SVI 406E	0,9	1,2	57,0			48,2	45,8	43,1	40,2	37,0	33,5	29,6	25,3	20,5
SVI 202S	0,37	0,5	21,4	18,8	17,2	15,4	13,2	10,6	7,4					
SVI 203S	0,37	0,5	32,1	28,1	25,8	23,1	19,8	15,9	11,1					
SVI 204S	0,55	0,75	42,8	37,5	34,4	30,8	26,4	21,2	14,8					
SVI 205S	0,75	1	53,5	46,9	43,0	38,5	33,0	26,5	18,6					
SVI 206S	0,75	1	64,2	56,3	51,6	46,2	39,6	31,7	22,3					
SVI 207S	1,1	1,5	74,9	65,6	60,2	53,9	46,2	37,0	26,0					
SVI 208S	1,1	1,5	85,6	75,0	68,8	61,5	52,8	42,3	29,7					
SVI 209S	1,1	1,5	96,3	84,4	77,4	69,2	59,4	47,6	33,4					
SVI 211S	1,5	2	117,7	103,2	94,6	84,6	72,6	58,2	40,8					
SVI 212S	1,5	2	128,4	112,5	103,2	92,3	79,2	63,5	44,5					
SVI 214S	2,2	3	149,8	131,3	120,4	107,7	92,5	74,1	52,0					
SVI 216S	2,2	3	171,2	150,1	137,7	123,1	105,7	84,7	59,4					
SVI 218S	2,2	3	192,6	168,8	154,9	138,5	118,9	95,2	66,8					
SVI 220S	3	4	214,0	187,6	172,1	153,9	132,1	105,8	74,2					
SVI 222S	3	4	235,4	206,3	189,3	169,2	145,3	116,4	81,7					
SVI 224S	3	4	256,8	225,1	206,5	184,6	158,5	127,0	89,1					
SVI 402S	0,37	0,5	19,3			16,8	16,0	15,2	14,3	13,2	12,1	10,8	9,4	7,9
SVI 403S	0,55	0,75	28,9			25,2	24,0	22,8	21,4	19,8	18,1	16,2	14,1	11,8
SVI 404S	0,75	1	38,5			33,6	32,0	30,4	28,5	26,5	24,2	21,6	18,9	15,8
SVI 405S	1,1	1,5	48,2			42,0	40,1	38,0	35,6	33,1	30,2	27,1	23,6	19,7
SVI 406S	1,1	1,5	57,8			50,4	48,1	45,6	42,8	39,7	36,3	32,5	28,3	23,7
SVI 407S	1,1	1,5	67,5			58,7	56,1	53,1	49,9	46,3	42,3	37,9	33,0	27,6
SVI 408S	1,5	2	77,1			67,1	64,1	60,7	57,0	52,9	48,3	43,3	37,7	31,5
SVI 409S	1,5	2	86,7			75,5	72,1	68,3	64,2	59,5	54,4	48,7	42,4	35,5
SVI 411S	2,2	3	106,0			92,3	88,1	83,5	78,4	72,8	66,5	59,5	51,9	43,4
SVI 413S	2,2	3	125,3			109,1	104,2	98,7	92,7	86,0	78,6	70,4	61,3	51,3
SVI 414S	3	4	134,9			117,5	112,2	106,3	99,8	92,6	84,6	75,8	66,0	55,2
SVI 416S	3	4	154,2			134,3	128,2	121,5	114,1	105,8	96,7	86,6	75,4	63,1
SVI 418S	3	4	173,5			151,1	144,2	136,7	128,3	119,0	108,8	97,4	84,8	71,0
SVI 420S	4	5,5	192,7			167,9	160,2	151,8	142,6	132,3	120,9	108,2	94,3	78,9
SVI 422S	4	5,5	212,0			184,6	176,3	167,0	156,8	145,5	133,0	119,1	103,7	86,7
SVI 424S	4	5,5	231,3			201,4	192,3	182,2	171,1	158,7	145,0	129,9	113,1	94,6

Performances in compliance with ISO 9906 - Annex A.

svi2-4-2p50-en_a_th



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SVI 8, 16 SERIES

TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 2 POLES

PUMP TYPE	RATED POWER		Q = DELIVERY											
			V _{min 0}	100	125	150	175	200	233	250	275	300	350	400
	kW	HP	m ³ /h 0	6	7,5	9	10,5	12	14	15	16,5	18	21	24
H = TOTAL HEAD METRES COLUMN OF WATER														
SVI 801S	0,75	1	14,0	12,5	11,8	11,0	10,0	8,7	6,5					
SVI 802S	1,1	1,5	28,0	25,0	23,7	22,1	20,0	17,4	13,0					
SVI 803S	1,5	2	42,0	37,5	35,5	33,1	29,9	26,0	19,4					
SVI 804S	2,2	3	56,0	50,0	47,4	44,1	39,9	34,7	25,9					
SVI 805S	2,2	3	70,0	62,4	59,2	55,1	49,9	43,4	32,4					
SVI 806S	3	4	84,0	74,9	71,1	66,2	59,9	52,1	38,9					
SVI 808S	4	5,5	112,0	99,9	94,8	88,2	79,9	69,5	51,8					
SVI 809S	4	5,5	126,0	112,4	106,6	99,2	89,8	78,1	58,3					
SVI 811S	5,5	7,5	154,0	137,4	130,3	121,3	109,8	95,5	71,3					
SVI 812S	5,5	7,5	168,0	149,9	142,2	132,3	119,8	104,2	77,8					
SVI 814S	7,5	10	196,0	174,9	165,9	154,4	139,8	121,5	90,7					
SVI 816S	7,5	10	224,0	199,8	189,6	176,4	159,7	138,9	103,7					
SVI 1601S	1,1	1,5	16,9			16,0	15,6	15,1	14,3	13,8	13,0	12,1	9,8	6,9
SVI 1602S	2,2	3	33,7			32,0	31,2	30,2	28,6	27,6	26,0	24,1	19,6	13,9
SVI 1603S	3	4	50,6			48,0	46,8	45,3	42,9	41,5	39,0	36,2	29,4	20,8
SVI 1604S	4	5,5	67,5			64,0	62,4	60,4	57,2	55,3	52,0	48,3	39,1	27,7
SVI 1605S	5,5	7,5	84,3			80,0	78,0	75,6	71,5	69,1	65,0	60,3	48,9	34,6
SVI 1606S	5,5	7,5	101,2			96,0	93,6	90,7	85,8	82,9	78,0	72,4	58,7	41,6
SVI 1607S	7,5	10	118,1			112,0	109,2	105,8	100,1	96,7	91,0	84,5	68,5	48,5
SVI 1608S	7,5	10	134,9			128,0	124,8	120,9	114,4	110,6	104,0	96,5	78,3	55,4
SVI 1610S	11	15	168,7			160,0	156,0	151,1	143,0	138,2	130,0	120,7	97,9	69,3
SVI 1612S	11	15	202,4			192,0	187,2	181,3	171,6	165,8	156,1	144,8	117,4	83,1
SVI 1614S	15	20	236,1			224,0	218,4	211,6	200,2	193,5	182,1	168,9	137,0	97,0
SVI 1615S	15	20	253,0			240,0	234,1	226,7	214,5	207,3	195,1	181,0	146,8	103,9

Performances in compliance with ISO 9906 - Annex A.

svi8-16-2p50-en_a_th



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SVI 33, 46 SERIES

TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 2 POLES

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

Performances in compliance with ISO 9906 - Annex A.

svi33-46-2p50-en_a_th



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SVI 66, 92 SERIES

TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 2 POLES

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

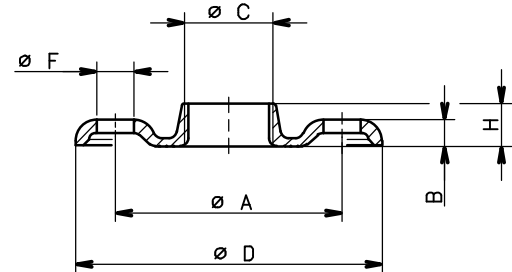
Performances in compliance with ISO 9906 - Annex A.

svi66-92-2p50-en_a_th

SVI 33, 46, 66, 92 SERIES (S, N VERSIONS) DIMENSIONS OF ROUND THREADED COUNTERFLANGES

PUMP TYPE	DN	ø C	DIMENSIONS (mm)				HOLES		PN
			ø A	B	ø D	H	ø F	N°	
SVI33	80	Rp 3	160	17	200	27	18	8	16
SVI46									
SVI66									
SVI92									

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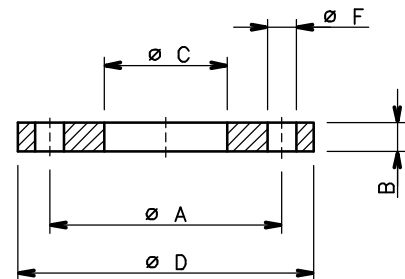


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SVI 33, 46, 66, 92 SERIES (S, N VERSIONS) DIMENSIONS PF ROUND WELD-ON COUNTERFLANGES

PUMP TYPE	DN	ø C	DIMENSIONS (mm)			HOLES		PN
			ø A	B	ø D	ø F	N°	
SVI33	80	90	160	20	200	18	8	16
SVI46								
SVI66								
SVI92								
SVI33	80	90	160	24	200	18	8	25
SVI46								
SVI66								
SVI92								

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ROUND COUNTERFLANGES

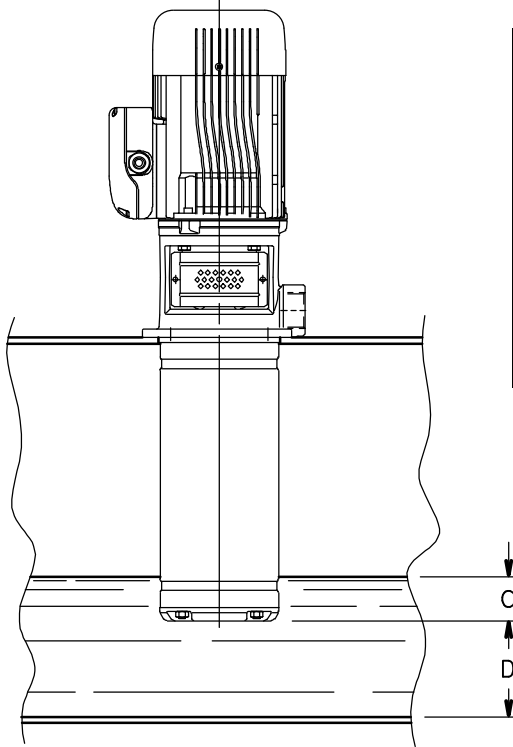
- SVI 33, 46, 66, 92 S versions : Kit containing weld-on counterflange (PN16, PN25) or threaded one PN16 made of galvanized steel. Each Kit contains 1 counterflange plus bolts and gasket.
- SVI 33, 46, 66, 92 N versions : Kit containing weld-on counterflange (PN16, PN25) or threaded one PN16 made of AISI 316L stainless steel. Each Kit contains 1 counterflange plus bolts and gasket.



ITT

INSTALLATION

POMPOIRECT



MINIMUM IMMERSION LEVEL		DISTANCE FROM THE BOTTOM	
PUMP TYPE	DIMENSION C mm	D mm	
		MINIMUM	RECOMMENDED
SVI2 SVI4	25	20	60
SVI8 SVI16	25	35	80
SVI33-46 SVI66-92	80	60	120

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