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TECHNICAL BROCHURE
BeSVI R1

e-SVI Series Immersible Multistage Pumps

60 HZ TECHNICAL MANUAL

GOULDS
WATER TECHNOLOGY
a xylem brand

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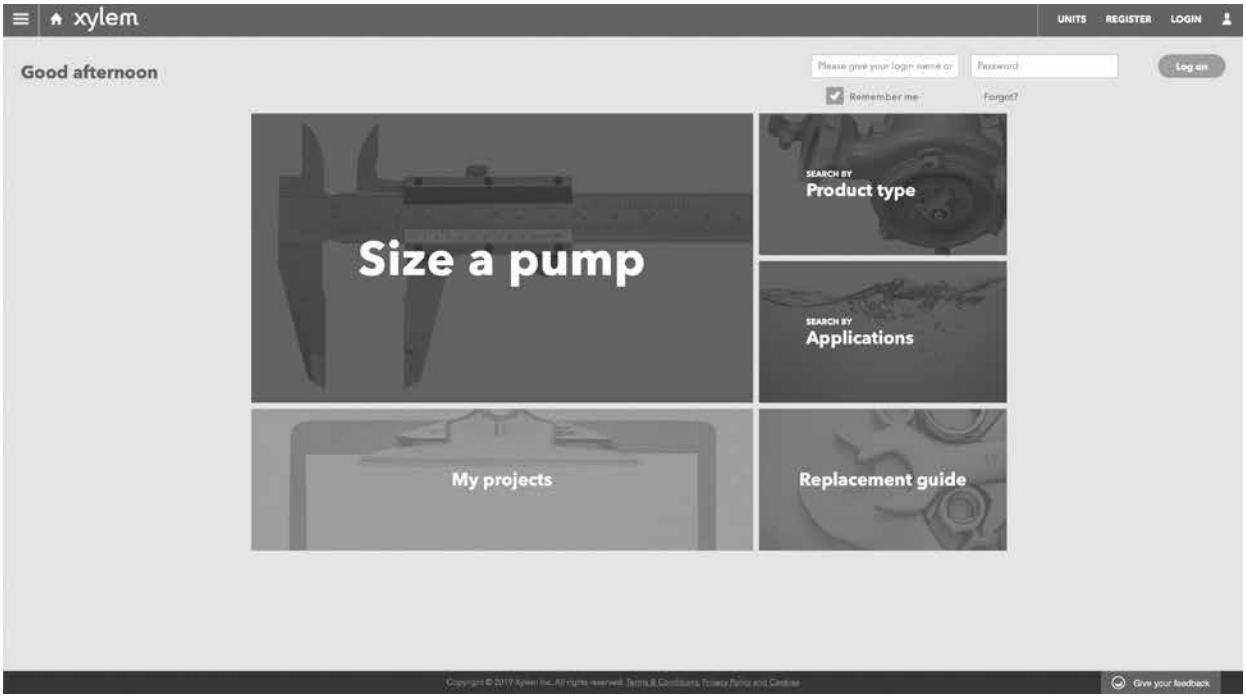

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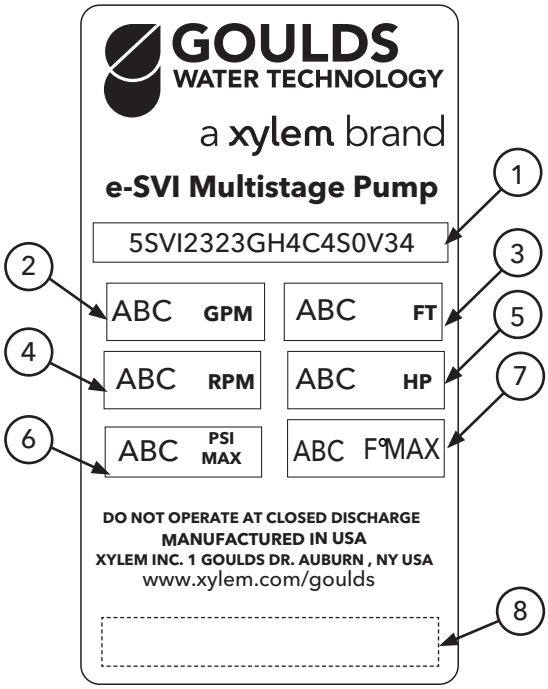
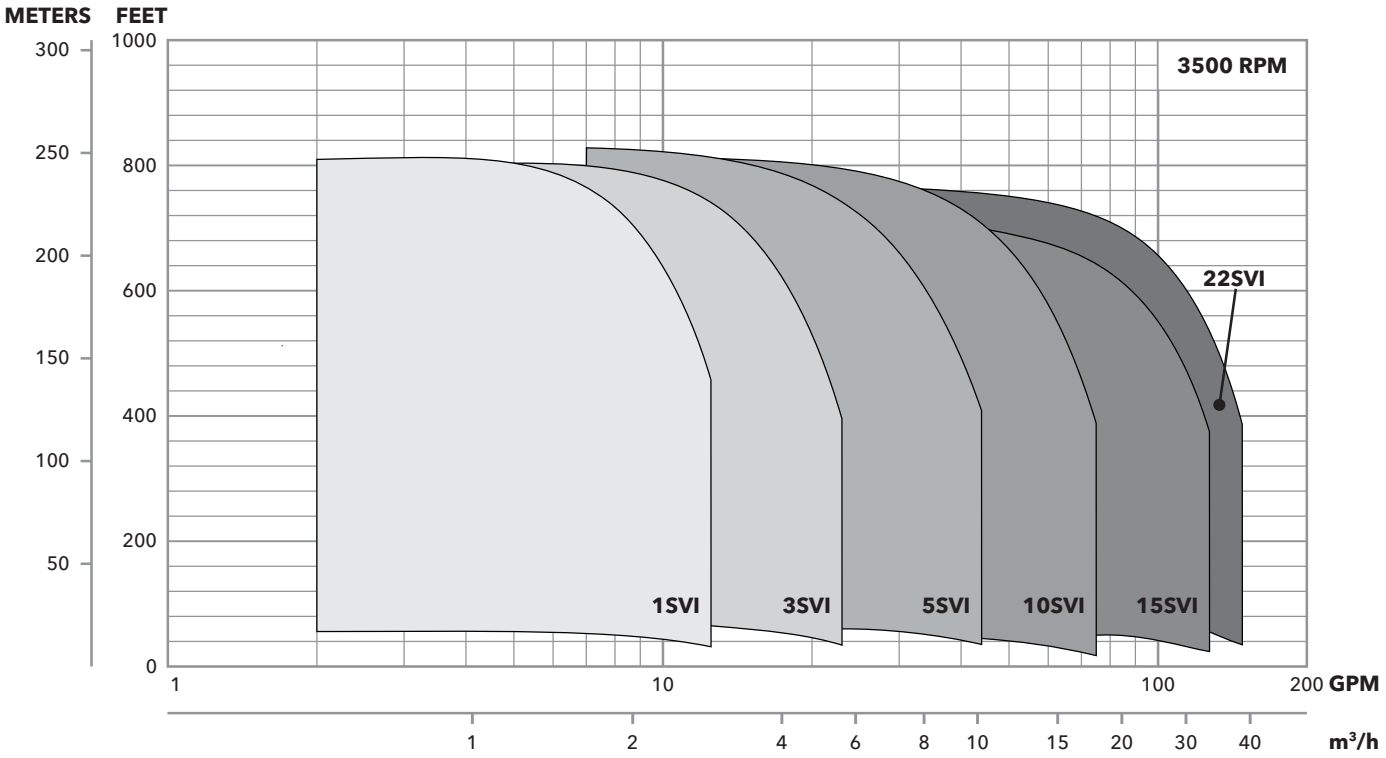
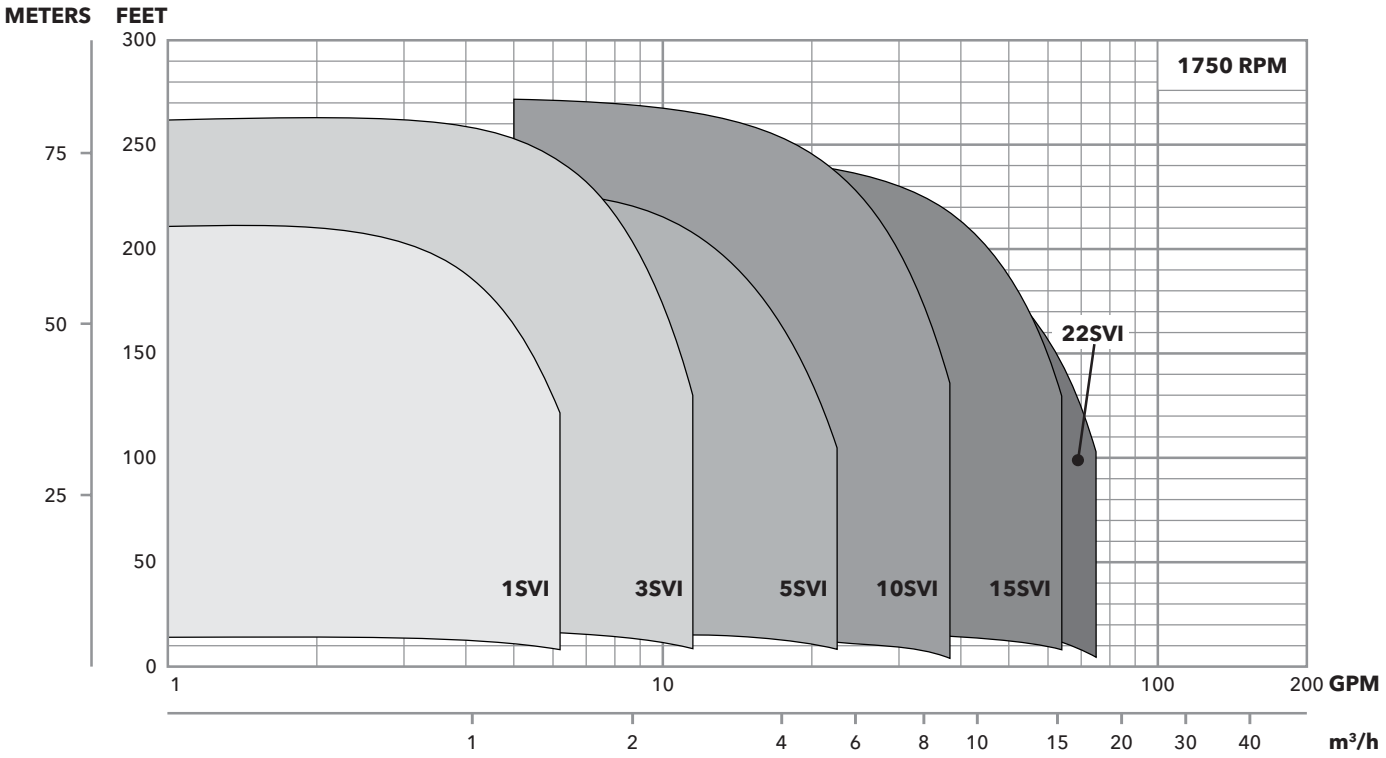
e-SVI RATING PLATE



1	Goulds Water Technology Part Number
2	Rated Flow
3	Rated Head
4	Rated Speed
5	Rated Horsepower
6	Maximum Operating Pressure
7	Maximum Operating Temperature
8	Pump Serial Number

e-SVI PUMP COVERAGE CURVE





e-SVI SERIES IMMERSIBLE MULTISTAGE PUMPS

The e-SVI is an energy saving, vertical multistage pump coupled to a standard NEMA premium-efficient motor (G and N versions) with an immersible hydraulic end providing an ideal solution for top mount applications. It is available in several hydraulic sizes, with nominal ranges up to 150 gpm, and can be built with a variable number of stages to cover a wide range of duty points. The e-SVI pump is configured to allow an additional number of blank stages so that the height of the immersed part can accommodate different suction depths.

The e-SVI pump is available in two different constructions:

- coupled with a standard NEMA motor – versions G and N
- close-coupled: sizes 1 e-SVI, 3 e-SVI and 5 e-SVI only

Both configurations feature optimized hydraulic components which achieve significant energy savings throughout the life cycle of the pump. In addition, an innovative design feature of the impellers reduce the axial thrust to be supported by the bearings.

The e-SVI offers a range of shaft seals to handle high temperatures, pressures and aggressive liquids. The e-SVI's design allows the removal of the standard mechanical seal without having to remove the motor thus reducing repair time. Also available is an easy to replace pre-assembled cartridge seal configuration ensuring the seal components will never be assembled incorrectly. The inducer is a standard feature offered to allow for reliable low level pumping.

The compact close-coupled design features an IEC motor and is perfect for applications with limited space. The close-coupled models also feature an additional drain chamber to redirect any leaks back to the tank in case of a failure of the mechanical seal.

Built in Auburn, NY, the e-SVI is available with competitive lead times and is a powerful complement to the existing e-SV multistage pump family.

SPECIFICATIONS

The e-SVI multistage pump offers a wide range of material options and configurations tailored to your needs. This design features fabricated hydraulic components that are made entirely from stainless steel. The discharge head can be made from cast stainless steel or cast iron. It provides industry leading performance and range with flows up to 150 gpm and sizes from 1 to 22 to meet the demands of a wide range of applications. It is an interchangeable drop-in pump replacement for .75", 1.25" and 2" NPT threaded discharge connections.

e-SVI pumps can be supplied with a Hydrovar® drive or ultra-premium efficient Smart Motor in order to optimize the performance of the pump through variable speed.

e-SVI SERIES IMMERSIBLE MULTISTAGE PUMPS

PUMP

The e-SVI pump is a non-self priming vertical immersible multistage pump coupled to a standard motor.

Flow range: up to 150 gpm

Head: up to 830 ft

Temperature of the pumped liquid (with standard mechanical seal):

- from 14°F to 194°F for coupled versions
- from 14°F to 140°F for close-coupled version

Discharge connections and maximum operating pressure:

- .75" NPT for sizes 1-3-5 close-coupled, up to 145 psi
- 1.25" or 2" NPT for sizes 1-22 coupled, up to 362 psi

Published hydraulic performance is compliant to ISO 9906/HI 14.6 Grade 2B

Direction of rotation marked with an arrow on the adapter and coupling: clockwise (looking at the pump from the top down)

MOTOR

For coupled configurations:

- Standard NEMA premium efficiency motors in open drip proof or totally enclosed fan cooled enclosures.
- Standard voltage: see options in nomenclature

For close-coupled configurations:

- 2-pole motors with squirrel cage in short circuit, enclosed construction with external ventilation.
- Standard supplied IE2/IE3 motors are compliant with Regulation (EC) no. 640/2009 and IEC 60034-30.
- IP55 protection
- Class 155 (F) Insulation
- Performances according to EN 60034-1
- Standard voltage: see options in nomenclature
- Operating temperature:
  Single-phase: from 32 to 104°F (0 to 40°C)
  Three-phase: from 32 to 131°F (0 to 55°C)

APPLICATIONS

Designed with flexibility and reliability in mind, the e-SVI vertically immersed multistage pumps are the ideal choice for top mount tank applications. The pump design is an effective solution for industrial, water utilities and agricultural markets covering a wide range of applications including:

- Cooling and tool lubrication circuits
- Cooling systems
- Machine tooling
- Process temperature control
- Industrial washing systems (degreasing of mechanical components)
- Pressurization of clean liquids
- Transfer of condensation
- Filtering systems (Reverse Osmosis)
- Heat exchange
- Washing and cleaning systems (washing wells and washing cars and trucks)
- Electronics circuit washing
- Commercial washing machines

PUMPED LIQUIDS

- Cooling and lubricating fluids
- Emulsions
- Cutting, hydraulic and motor oil
- Condensation
- Water with detergents
- Desalinated water
- Water and glycol

CHARACTERISTICS OF e-SVI 1, 3, 5, 10, 15, 22 (G OR N MATERIALS)

- Vertical pump with submersible body.
- "N" version with standard motor (coupled version) or motor with special shaft extension (close-coupled version) with hydraulic components, body and discharge head made entirely from 316 stainless steel
- "G" version with standard motor:
  - Hydraulic components, tie-rods, suction base and filter made entirely of stainless steel.
  - Motor adapter and discharge head made of cast iron.
- Reduced axial thrust due to the innovative design of the impellers that will increase the life of the motor used.
- Standard version for temperatures ranging from -22°F to 194°F (-30°C to +90°C)
- Minimum immersion level: 0.8"

PRODUCT CODE FOR LIQUID END ONLY

1	2	3	4	5	6	7	8	9	10
3	3	S	V	I	0	8	0	6	1	G	E	3	S	0

1. Nominal Flow [1 or 2 characters]

[1] = 5 GPM
[3] = 16 GPM
[5] = 26 GPM
[10] = 53 GPM
[15] = 80 GPM
[22] = 116 GPM
[33]= 175 GPM
[46]= 240 GPM
[66]= 350 GPM
[92]= 485 GPM

2. Product Line [3 characters]

[SVI] = Stainless Vertical Immersible

3. Total Number of Stages [2 characters]

e.g.: [14] = 14 stages
[08] = 8 stages

4. Total Number of Impellers [2 characters]

e.g.: [12] = 12 impellers
[06] = 6 impellers

5. Number of Reduced Trim Impellers *(for sizes 33-92 only)* **[None or 1 character]**

No character= No reduced trim impellers
[1]= 1
[2]= 2

6. Material [1 character]

[G]= 304/CI
[N]= 316

7. Motor Frame Series [1 character]

[A] = 56C
[B] = 180TC
[C] = 210TC
[D] = 250TC
[E] = 280TC
[F] = 320TSC
[G] = 360TSC
[H] = 140TC
[X] = Other

8. Pole - Hz [1 character]

[1] = 2 - 50
[2] = 4 - 50
[3] = 2 - 60
[4] = 4 - 60

9. Seal & Coupling Type [1 character]

[S] = Standard Seal (coupled)
[C] = Cartridge Seal (coupled)

10. Seal Material [1 character]

[0] = Car-SilCar-FKM (Standard)
[2] = SilCar-SilCar-FKM
[4] = SilCar-SilCar-EPDM
[8] = Tungsten Car-Tungsten Car-FKM*

*For cartridge seal only

EXAMPLES:

10SVI0303GA3S0
10SVI, 3 stages, 3 impellers, material 304/CI, motor frame series: 56, 2-pole, 60 Hz, standard seal: Car-SilCar-FKM

33SVI08061GE3S0
33SVI, 8 stages, 6 impellers with 1 reduced impeller, material: CI (discharge head), 304 SS (diffusers, tie rods), 316SS (impellers), motor frame series: 280, 2-pole, 60 Hz, standard seal: Car-SilCar-FKM

PRODUCT CODE FOR COMPLETE PUMP

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
3	3	S	V	I	E	0	8	0	6	1	G	E	3	S	1	S	8	V	3	2	C	

1. Nominal Flow [1 or 2 characters]

[1] = 5 GPM	[22] = 116 GPM
[3] = 16 GPM	[33] = 175 GPM
[5] = 26 GPM	[46] = 240 GPM
[10] = 53 GPM	[66] = 350 GPM
[15] = 80 GPM	[92] = 485 GPM

2. Product Line [3 characters]
[SVI] = Stainless Vertical Immersible

3. Smart motor [None or 1 character]
No character= No smart motor
[E]= SM Drive*

4. Total Number of Stages [2 characters]
e.g.: [14] = 14 stages
[08] = 8 stages

5. Total Number of Impellers [2 characters]
e.g.: [12] = 12 impellers
[06] = 6 impellers

6. Number of Reduced Trim Impellers
(for sizes 33-92 only) [None or 1 character]
No character= No reduced trim impellers
[1] = 1
[2] = 2

7. Material [1 character]
[G] = 304/CI
[N] = 316

8. HP rating [1 character]

[A] = 0.50	[F] = 3	[L] = 20
[B] = 0.75	[G] = 5	[M] = 25
[C] = 1	[H] = 7.5	[N] =30
[D] = 1.5	[J] = 10	[P] =40
[E] = 2	[K] = 15	

9. Pole - Hz - Phase [1 character]

[1] = 2 - 50 - 1	[5] = 4 - 50 - 1
[2] = 2 - 50 - 3	[6] = 4 - 50 - 3
[3] = 2 - 60 - 1	[7] = 4 - 60 - 1
[4] = 2 - 60 - 3	[8] = 4 - 60 - 3

10. Voltage [1 character]

[A] = 115/230	[M] = 190-380/415
[B] = 230	[N] = 380
[C] = 230/460	[P] = 110/220
[D] = 460	[R] = 220
[E] = 575	[S] = 415
[F] = 208-230/460	[T] = 220/380 WYE
[G] = 200	[U] = 380-660 WYE
[H] = 190/380	[V] = 208-230/460 WYE
[J] = 115/208-230	[W] = 220/380/440
[K] = 208	[X] = 380-460
[L] = 208-230	[Y] = 208-230/380-460

11. Motor enclosure [1 character]

[1] = ODP	[7] = Prem-XP
[2] = TEFC	[8] = Prem-WD
[3] = X-Proof	[M] = SM
[5] = Prem-ODP	[P] = IP
[6] = Prem-TEFC	[X]= Other

12. Seal & Coupling Type [1 character]
[S] = Standard Seal (coupled)
[C] = Cartridge Seal (coupled)
[E] = Standard Seal (close-coupled: sizes 1-3-5 only)

13. Seal material [1 character]
[0] = Car-SilCar-FKM (Standard)
[2] = SilCar-SilCar-FKM
[4] = SilCar-SilCar-EPDM
[8] = Tungsten Car-Tungsten Car-FKM***

14. Addition of Hydrovar [None or 3 characters] **
No character = No Hydrovar
V12 = Single Phase, 230V
V32 = Three Phase, 230V
V34 = Three Phase, 460V

15. Special Hydrovar option
[None or 1 character]
No character = No special Hydrovar option
[C] = Premium Card Hydrovar

16. Special configuration
[None or 1 character]
No character = No special configuration

*SM Selections are limited to:

HP Option	Pole - Hz - Phase Option	Voltage Option	Motor Enclosure Option
A, B, C, D, E	3	L	M
A, B, C, D, E, F	4	X, Y	M

**Hydrovar Selections are limited to:

Hydrovar Option	HP Option	Pole - Hz - Phase Option	Voltage Option	Motor Enclosure Option
V12	C, D, E, F, G	3	B, C, F, L	2
V32	C, D, E, F, G, H, J, K	4	B, C, F, L	2
V34	C, D, E, F, G, H, J, K, L, M, N	4	C, D, F	2

***For cartridge seal only

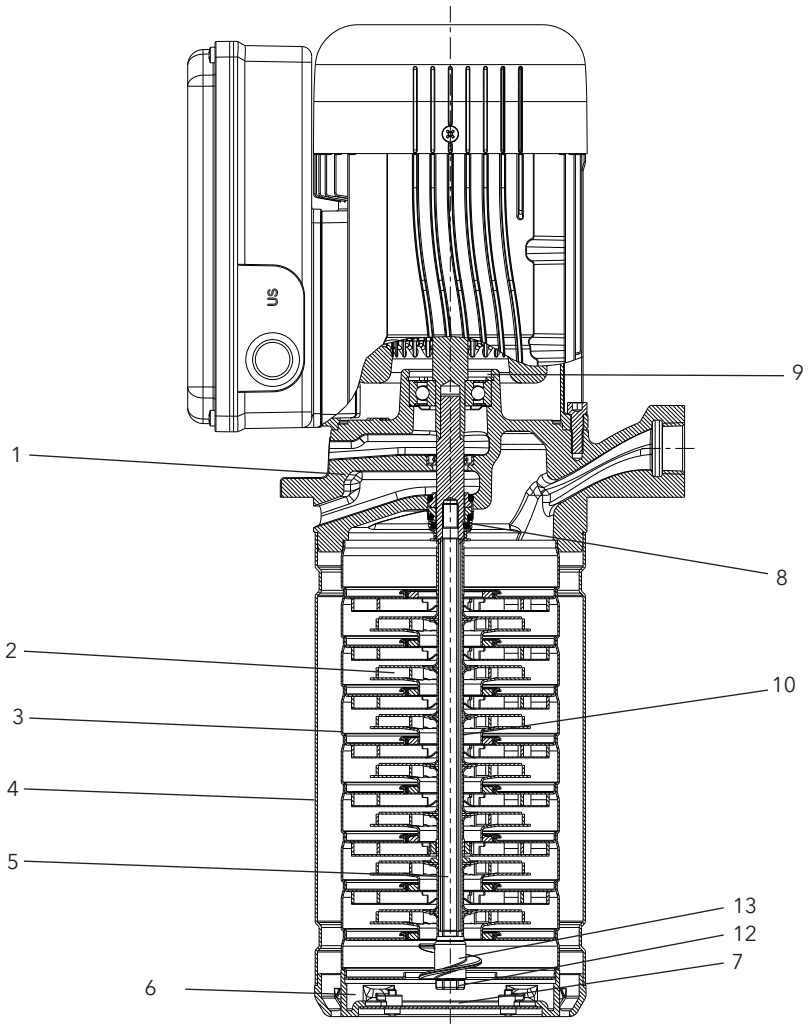
EXAMPLES:

10SVI0303GF3A1S0
10SVI with smart motor, 3 stages, 3 impellers, material 304/CI, motor: 3HP, 2-pole, 60 Hz, 1 phase, 115/230V, enclosure ODP, standard seal: Car-SilCar-FKM

10SVIE0202GE3LMS0
10SVI with smart motor, 2 stages, 2 impellers, material 304/CI, eSM motor: 2HP, 2-pole, 60 Hz, 1 phase, 208-230V, enclosure M, standard seal: Car-SilCar-FKM

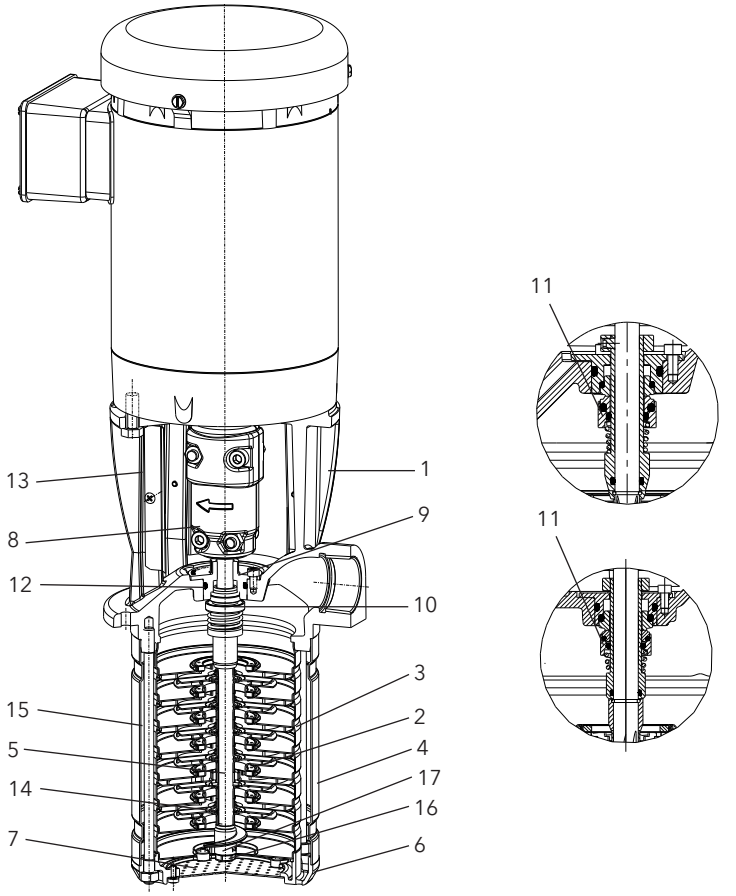
33SVI08061GN4C2S0V34
33SVI, 8 stages, 6 impellers with 1 reduced impeller, material: CI (discharge head), 304SS (diffusers, tie rods), 316SS (impellers), motor: 30 HP, 2-pole, 60 Hz, 3 phase, 230/460V, TEFC enclosure, standard seal: Car-SilCar-FKM, Hydrovar for 3 phase and 460V

BASE MODELS: 1, 3, 5 e-SVI CLOSE-COUPLED – MAJOR COMPONENTS



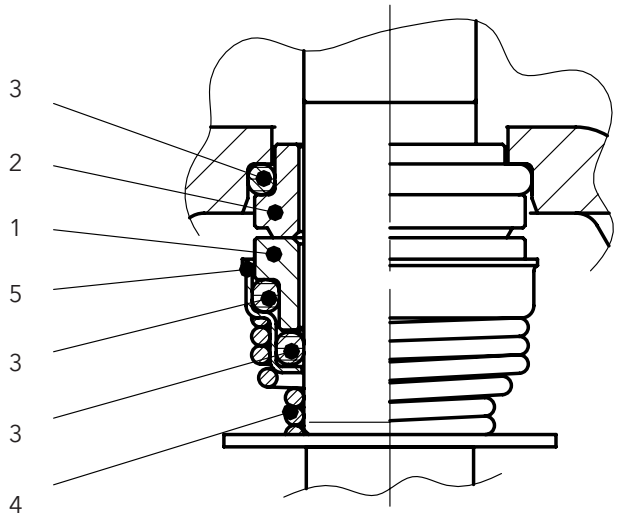
NO.	DESCRIPTION	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Discharge Head and Motor Adapter	Cast iron (version G)	EN 1561-GJL-250 (JL1040)	ASTM Class 35
		Stainless steel (version N)	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)
2	Impeller	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
3	Diffuser	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Casing	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	*See Mechanical Seal Section for Material Combinations*		
9	Sealing Ring	NBR		
10	Shaft Sleeve and Bushing	Tungsten Carbide/Ceramic		
11	Tie Rods (not shown)	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
12	Fasteners	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
13	Inducer	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)

BASE MODELS: 1-22 e-SVI COUPLED – MAJOR COMPONENTS



NO.	DESCRIPTION	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Discharge Head and Motor Adapter	Cast iron (version G)	EN 1561-GJL-250 (JL1040)	ASTM Class 35
		Stainless steel (version N)	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)
2	Impeller	Stainless steel (version G)	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
		Stainless steel (version N)	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
3	Diffuser	Stainless steel (version G)	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
		Stainless steel (version N)	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Casing	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	Seal Housing	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (AISI 316 cast)
10	Mechanical Seal	See Mechanical Seal Section for Material Combinations		
11	Cartrige Seal	Silicon Carbide / Carbon / FKM (EPDM) / AISI 316		
12	Elastomers	FKM and EPDM		
13	Coupling Guard	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
14	Shaft Sleeve and Bushing	Tungsten Carbide/Ceramic		
15	Tie Rods	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
16	Fasteners	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)

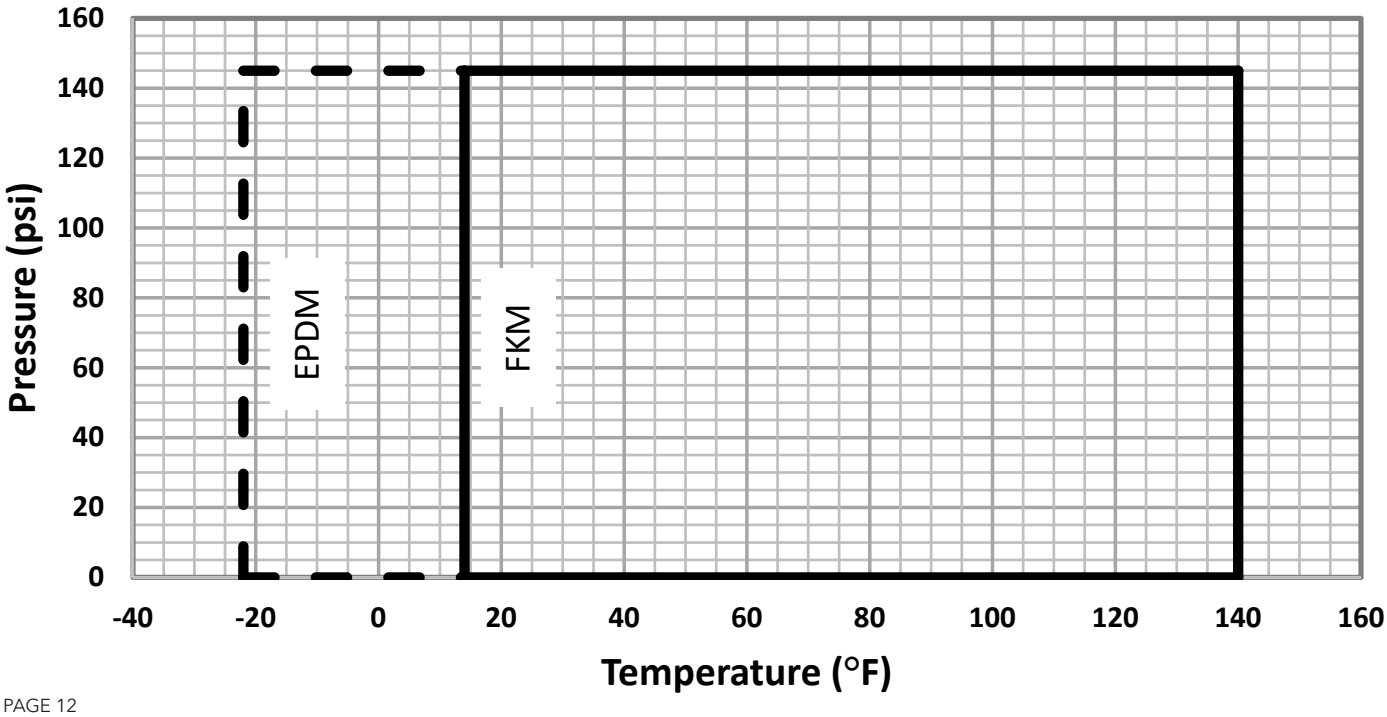
e-SVI MECHANICAL SEAL: 1-3-5 e-SVI CLOSE-COUPLED



SEAL MATERIAL COMBINATIONS

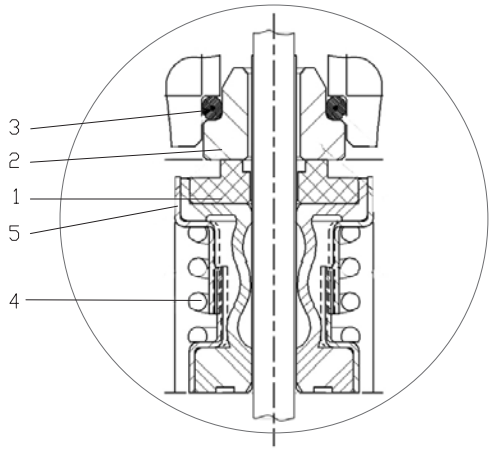
CODE	TYPE	SEAL COMPONENT					TEMPERATURE (°F)
		1	2	3	4	5	
		ROTATING PART	STATIONARY PART	ELASTOMERS	SPRINGS	OTHER COMPONENTS	
	STANDARD MECHANICAL SEAL						
0	Q_1 B V G G	Silicon carbide	Resin impregnated carbon	FKM	AISI 316	AISI 316	14 to 140
	OTHER TYPES OF MECHANICAL SEAL						
4	Q_1 Q_1 E G G	Silicon carbide	Silicon carbide	EPDM	AISI 316	AISI 316	-22 to 140
8	U_3 U_3 V G G	Tungsten carbide	Tungsten carbide	FKM	AISI 316	AISI 316	14 to 140

MAXIMUM ALLOWABLE WORKING PRESSURE

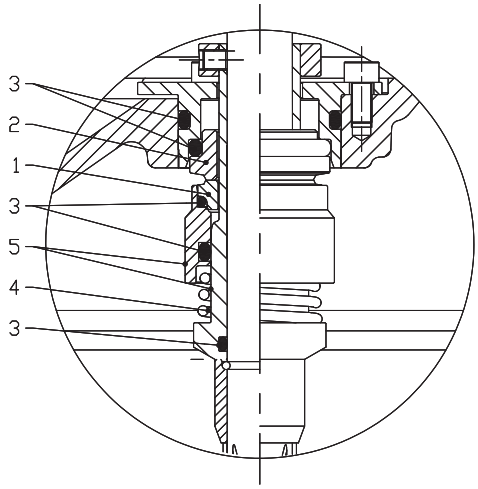


e-SVI MECHANICAL SEAL: 1-22 e-SVI COUPLED

STANDARD SEAL



BALANCED CARTRIDGE SEAL

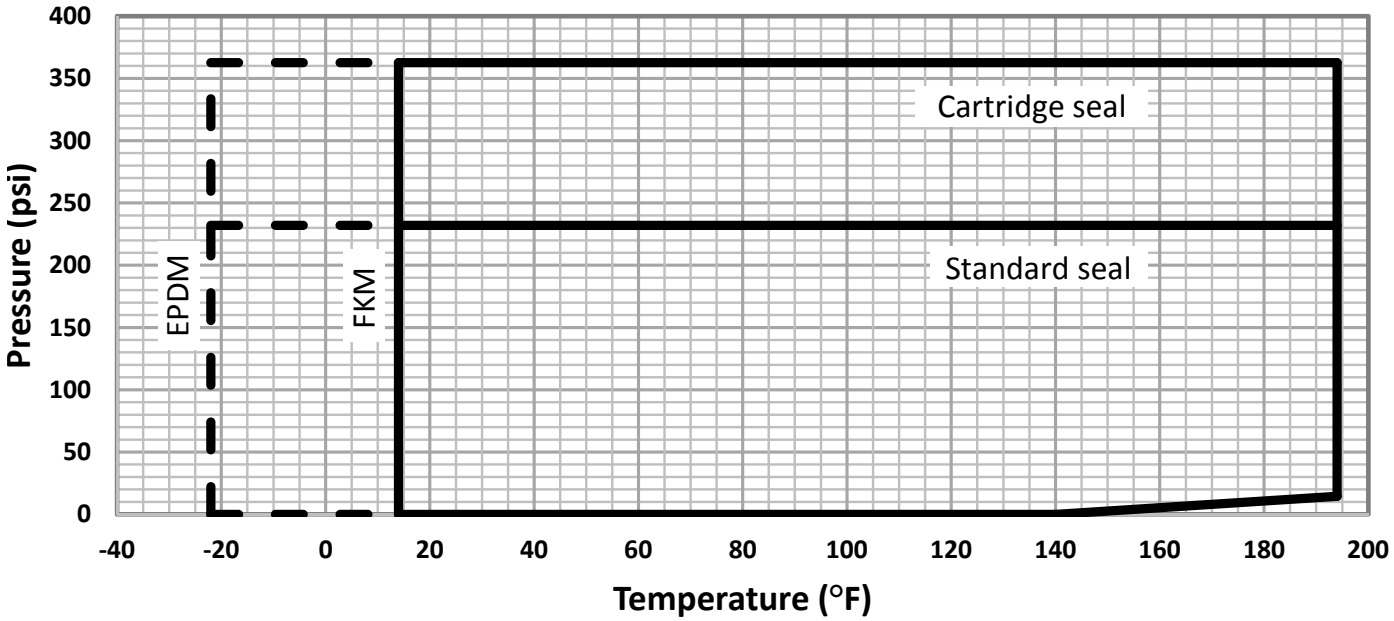


SEAL MATERIAL COMBINATIONS

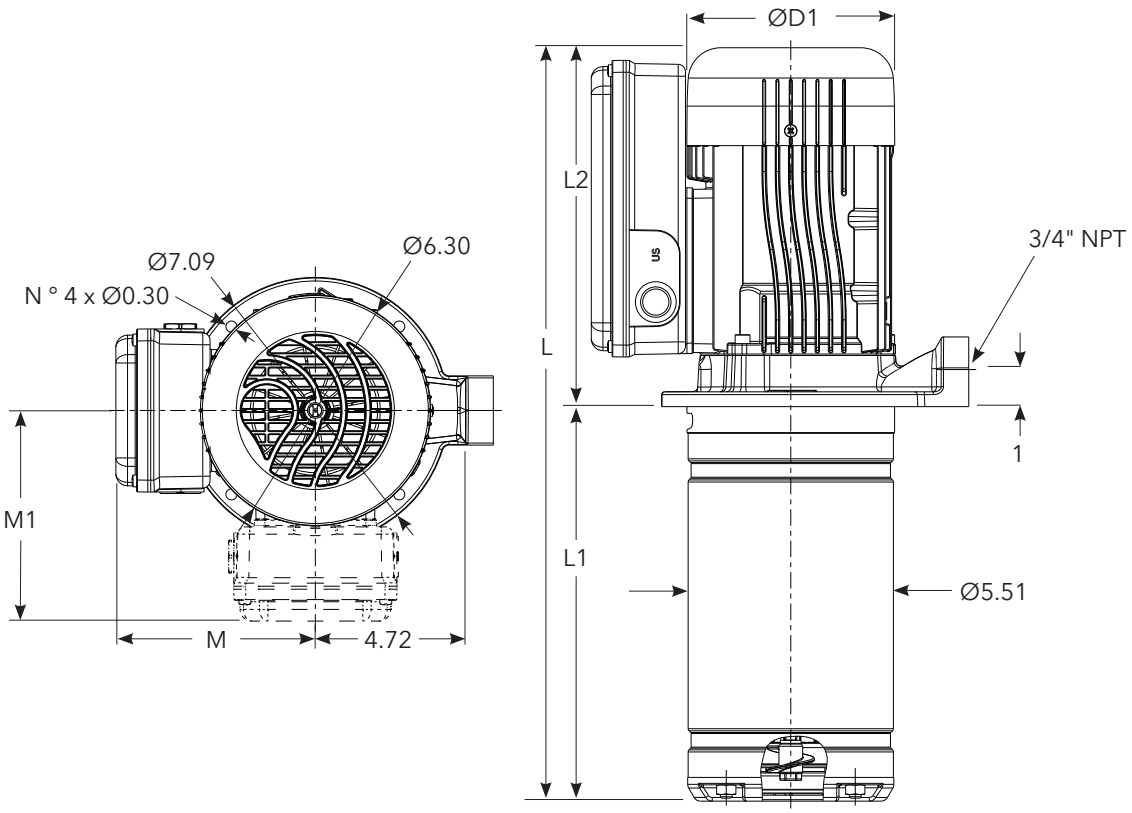
CODE	TYPE	SEAL COMPONENT					TEMPERATURE (°F)
		1	2	3	4	5	
		ROTATING PART	STATIONARY PART	ELASTOMERS	SPRINGS	OTHER COMPONENTS	
	STANDARD MECHANICAL SEAL						
0	Q_1 B V G G	Silicon carbide	Resin impregnated carbon	FKM	AISI 316	AISI 316	14 to 194
	OTHER TYPES OF MECHANICAL SEAL						
2	Q_1 Q_1 V G G	Silicon carbide	Silicon carbide	FKM	AISI 316	AISI 316	14 to 194
4	Q_1 Q_1 E G G	Silicon carbide	Silicon carbide	EPDM	AISI 316	AISI 316	-22 to 194
8*	U_3 U_3 V G G	Tungsten carbide	Tungsten carbide	FKM	AISI 316	AISI 316	14 to 194

*For cartridge seal only

MAXIMUM ALLOWABLE WORKING PRESSURE



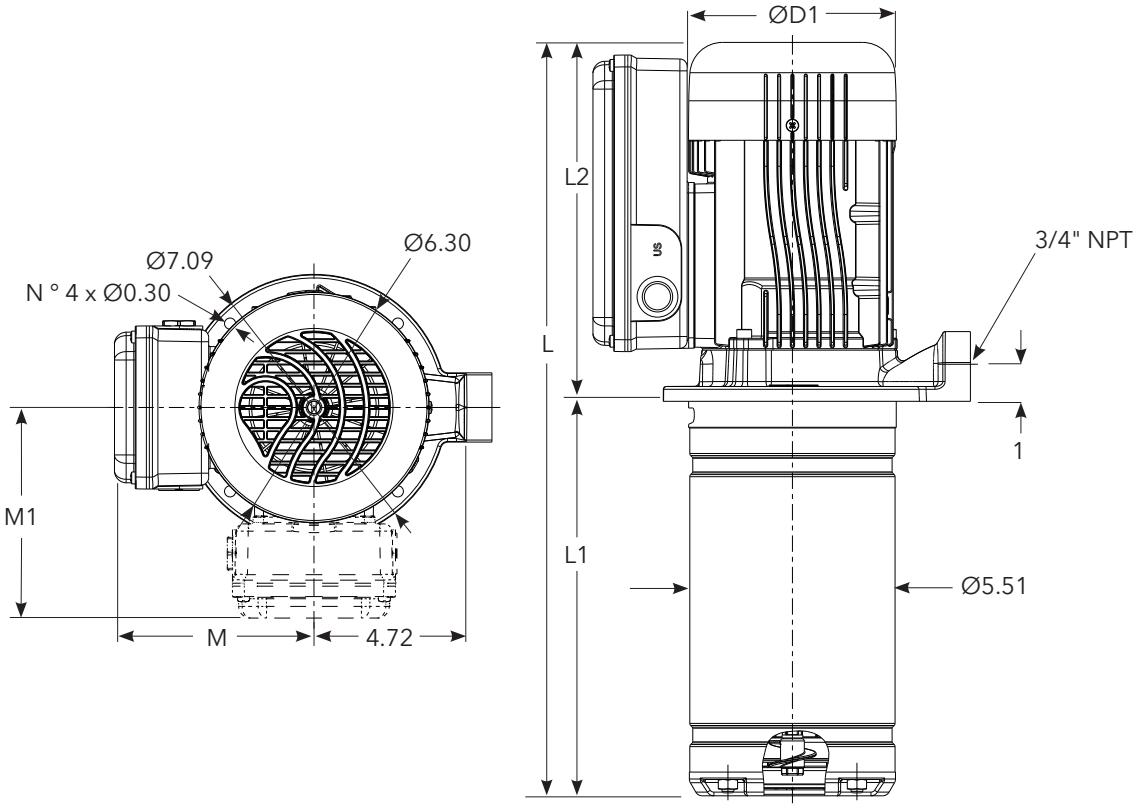
1 e-SVI CLOSE-COUPLED DIMENSIONS



Pump Configuration	Phase	Motor			Dimensions (IN)						Weight (LBS.)		
		KW	HP	IEC Frame	L1	L2	L	M (max.)	M1 (max.)	D1 (max.)	Pump Only	Motor	Electric Pump
1SVI02-02	1	0.37	0.50	71	4.96	9.53	14.49	5.30	–	5.51	6	27	33
1SVI03-03	1	0.37	0.50	71	5.75	9.53	15.28	5.30	–	5.51	6	27	33
1SVI04-04	1	0.37	0.50	71	6.54	9.53	16.06	5.30	–	5.51	7	27	34
1SVI05-05	1	0.55	0.75	71	7.32	9.53	16.85	5.30	–	5.51	7	27	34
1SVI06-06	1	0.55	0.75	71	8.11	9.53	17.64	5.30	–	5.51	8	27	35
1SVI07-07	1	0.75	1.00	71	8.90	9.53	18.43	5.30	–	5.51	9	27	36
1SVI08-08	1	0.75	1.00	71	9.69	9.53	19.21	5.30	–	5.51	9	27	36
1SVI09-09	1	0.75	1.00	71	10.47	9.53	20.00	5.30	–	5.51	10	27	37
1SVI10-10	1	1.10	1.50	80	11.26	11.28	22.54	–	5.59	6.10	10	37	47
1SVI11-11	1	1.10	1.50	80	12.05	11.28	23.33	–	5.59	6.10	11	37	48
1SVI12-12	1	1.10	1.50	80	12.83	11.28	24.11	–	5.59	6.10	11	37	48
1SVI13-13	1	1.10	1.50	80	13.62	11.28	24.90	–	5.59	6.10	12	37	49
1SVI02-02	3	0.37	0.50	71	4.96	9.53	14.49	5.30	–	5.51	6	27	33
1SVI03-03	3	0.37	0.50	71	5.75	9.53	15.28	5.30	–	5.51	6	27	33
1SVI04-04	3	0.37	0.50	71	6.54	9.53	16.06	5.30	–	5.51	7	27	34
1SVI05-05	3	0.55	0.75	71	7.32	9.53	16.85	5.30	–	5.51	7	27	34
1SVI06-06	3	0.55	0.75	71	8.11	9.53	17.64	5.30	–	5.51	8	27	35
1SVI07-07	3	0.75	1.00	80	8.90	11.28	20.18	–	5.59	6.10	9	37	46
1SVI08-08	3	0.75	1.00	80	9.69	11.28	20.96	–	5.59	6.10	9	37	46
1SVI09-09	3	0.75	1.00	80	10.47	11.28	21.75	–	5.59	6.10	10	37	47
1SVI10-10	3	1.10	1.50	80	11.26	11.28	22.54	–	5.59	6.10	10	37	47
1SVI11-11	3	1.10	1.50	80	12.05	11.28	23.33	–	5.59	6.10	11	37	48
1SVI12-12	3	1.10	1.50	80	12.83	11.28	24.11	–	5.59	6.10	11	37	48
1SVI13-13	3	1.10	1.50	80	13.62	11.28	24.90	–	5.59	6.10	12	37	49

All listed dimensions are with Inducer, 1SVI10-10 has 10 Stages with Impeller and 1 Inducer chamber

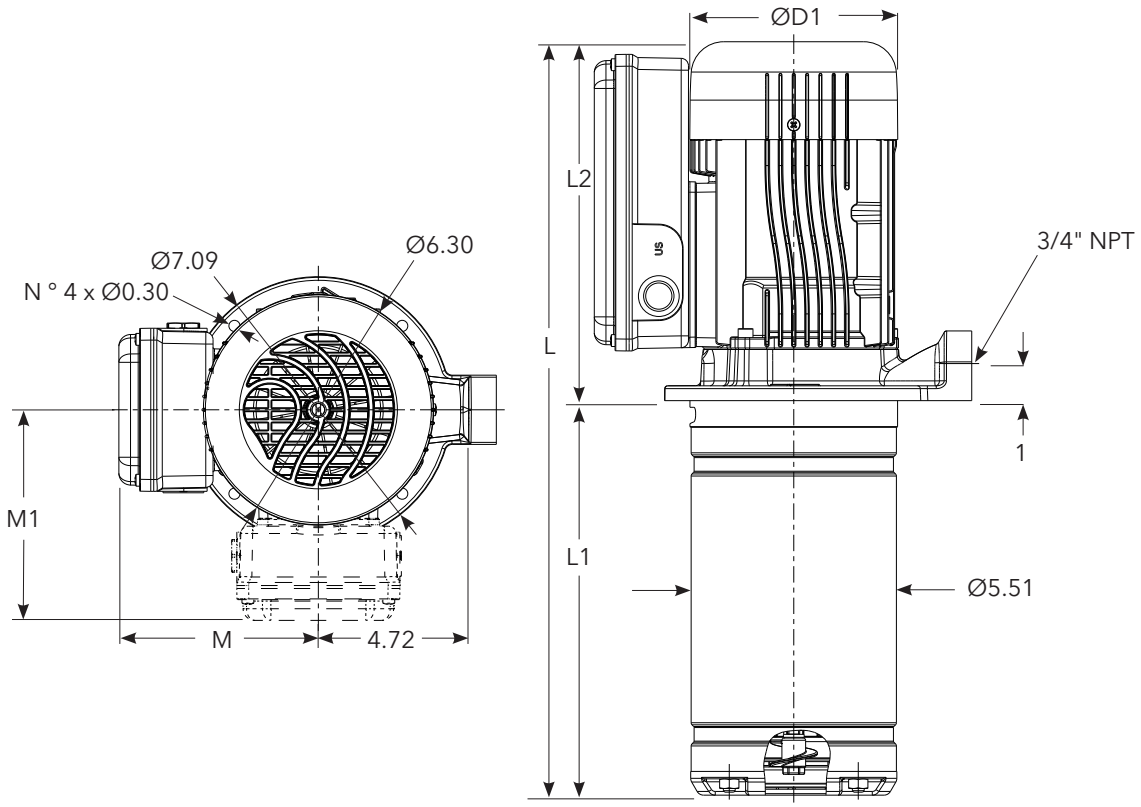
3 e-SVI CLOSE-COUPLED DIMENSIONS



Pump Configuration	Phase	Motor			Dimensions (IN)						Weight (LBS.)		
		KW	HP	IEC Frame	L1	L2	L	M (max.)	M1 (max.)	D1 (max.)	Pump Only	Motor	Electric Pump
3SVI02-02	1	0.37	0.50	71	4.96	9.53	14.49	5.31	–	5.51	6	27	33
3SVI03-03	1	0.55	0.75	71	5.75	9.53	15.28	5.31	–	5.51	6	27	33
3SVI04-04	1	0.75	1.00	71	6.54	9.53	16.06	5.31	–	5.51	7	27	34
3SVI05-05	1	1.10	1.50	80	7.32	11.30	18.62	–	5.59	6.10	8	37	45
3SVI06-06	1	1.10	1.50	80	8.11	11.30	19.41	–	5.59	6.10	8	37	45
3SVI07-07	1	1.10	1.50	80	8.90	11.30	20.20	–	5.59	6.10	9	37	46
3SVI02-02	3	0.37	0.50	71	4.96	9.53	14.49	5.31	–	5.51	6	27	33
3SVI03-03	3	0.55	0.75	71	5.75	9.53	15.28	5.31	–	5.51	6	27	33
3SVI04-04	3	0.75	1.00	80	6.54	11.30	17.83	–	5.59	6.10	7	37	44
3SVI05-05	3	1.10	1.50	80	7.32	11.30	18.62	–	5.59	6.10	8	37	45
3SVI06-06	3	1.10	1.50	80	8.11	11.30	19.41	–	5.59	6.10	8	37	45
3SVI07-07	3	1.10	1.50	80	8.90	11.30	20.20	–	5.59	6.10	9	37	46

All listed dimensions are with Inducer, 3SVI07-07 has 07 Stages with Impeller and 1 Inducer chamber

5 e-SVI CLOSE-COUPLED DIMENSIONS

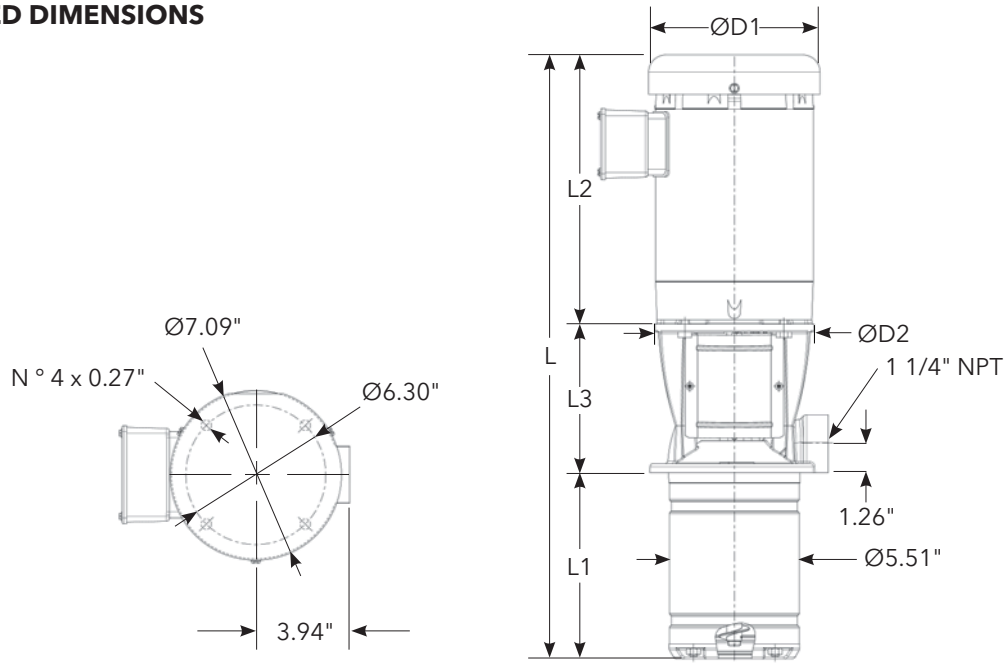


Pump Configuration	Phase	Motor			Dimensions (IN)						Weight (LBS.)		
		KW	HP	IEC Frame	L1	L2	L	M (max.)	M1 (max.)	D1 (max.)	Pump Only	Motor	Electric Pump
5SVI02-02	1	0.55	0.75	71	5.55	9.53	15.08	5.31	–	5.51	6	27	33
5SVI03-03	1	0.75	1.00	71	6.54	9.53	16.06	5.31	–	5.51	6	27	33
5SVI04-04	1	1.10	1.50	80	7.52	11.30	18.82		5.59	6.10	7	37	44
5SVI02-02	3	0.55	0.75	71	5.55	9.53	15.08	5.31	–	5.51	6	27	33
5SVI03-03	3	0.75	1.00	80	6.54	11.30	17.83	–	5.59	6.10	6	37	43
5SVI04-04	3	1.10	1.50	80	7.52	11.30	18.82	–	5.59	6.10	7	37	44

All listed dimensions are with Inducer, 5SVI04-04 has 04 Stages with Impeller and 1 Inducer chamber

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

1 e-SVI COUPLED DIMENSIONS

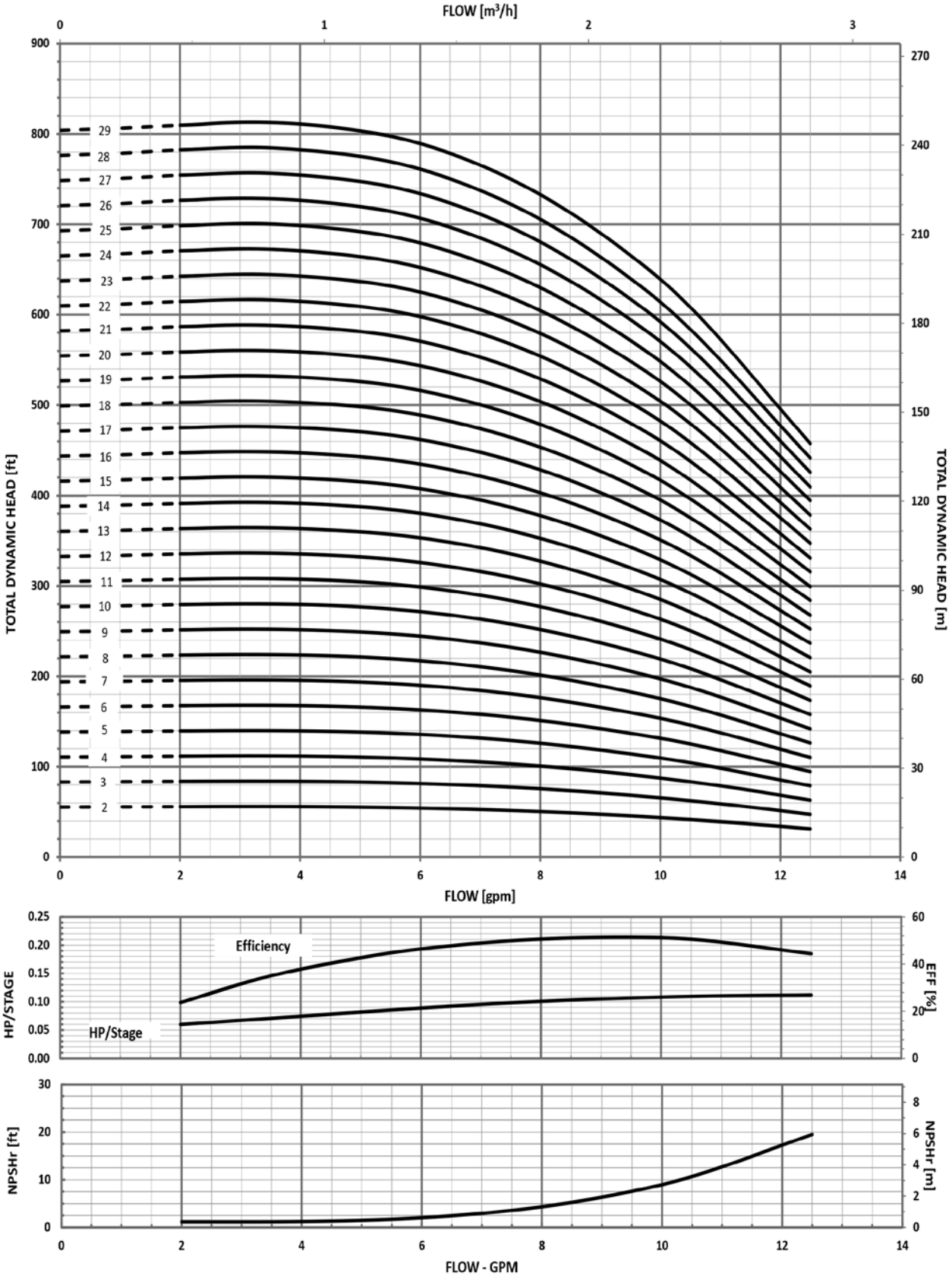


1 e-SVI SERIES – 60 Hz, 3500 RPM ODP/TEFC Enclosures

PUMP CONFIGURATION	MOTOR					DIMENSIONS (IN)															WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3	L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
1SVI02-02	0.5	56C	56C	56C	56C	4.69	9.16	9.29	9.16	9.29	6.44	20.28	20.41	20.28	20.41	6.19	6.19	6.19	6.19	6.69	20	21	21	19	19	41	41	39	39
1SVI03-03	0.5	56C	56C	56C	56C	5.47	9.16	9.29	9.16	9.29	6.44	21.07	21.20	21.07	21.20	6.19	6.19	6.19	6.19	6.69	20	21	21	19	19	41	41	39	39
1SVI04-04	0.5	56C	56C	56C	56C	6.26	9.16	9.29	9.16	9.29	6.44	21.86	21.99	21.86	21.99	6.19	6.19	6.19	6.19	6.69	21	21	21	19	19	42	42	40	40
1SVI05-05	0.5	56C	56C	56C	56C	7.05	9.16	9.29	9.16	9.29	6.44	22.64	22.77	22.64	22.77	6.19	6.19	6.19	6.19	6.69	22	21	21	19	19	43	43	41	41
1SVI06-06	0.75	56C	56C	56C	56C	7.83	10.79	9.91	9.16	9.29	6.44	25.06	24.18	23.43	23.56	6.19	6.19	6.19	6.19	6.69	23	27	29	21	21	50	52	44	44
1SVI07-07	0.75	56C	56C	56C	56C	8.62	10.79	9.91	9.16	9.29	6.44	25.85	24.97	24.22	24.35	6.19	6.19	6.19	6.19	6.69	23	27	29	21	21	50	52	44	44
1SVI08-08	0.75	56C	56C	56C	56C	9.41	10.79	9.91	9.16	9.29	6.44	26.64	25.76	25.01	25.14	6.19	6.19	6.19	6.19	6.69	24	27	29	21	21	51	53	45	45
1SVI09-09	1	56C	56C	56C	56C	10.20	10.66	11.19	9.16	9.29	6.44	27.29	27.82	25.79	25.92	6.19	7.19	6.19	6.19	6.69	25	32	40	23	23	57	65	48	48
1SVI10-10	1	56C	56C	56C	56C	10.98	10.66	11.19	9.16	9.29	6.44	28.08	28.61	26.58	26.71	6.19	7.19	6.19	6.19	6.69	26	32	40	23	23	58	66	49	49
1SVI11-11	1.5	56C	56C	56C	56C	11.77	10.67	11.19	10.66	9.91	6.44	28.88	29.40	28.87	28.12	6.19	7.19	6.19	6.19	6.69	27	32	40	30	28	59	67	57	55
1SVI12-12	1.5	56C	56C	56C	56C	12.56	10.67	11.19	10.66	9.91	6.44	29.67	30.19	29.66	28.91	6.19	7.19	6.19	6.19	6.69	27	32	40	30	28	59	67	57	55
1SVI13-13	1.5	56C	56C	56C	56C	13.35	10.67	11.19	10.66	9.91	6.44	30.45	30.97	30.44	29.69	6.19	7.19	6.19	6.19	6.69	28	32	40	30	28	60	68	58	56
1SVI14-14	1.5	56C	56C	56C	56C	14.13	10.67	11.19	10.66	9.91	6.44	31.24	31.76	31.23	30.48	6.19	7.19	6.19	6.19	6.69	29	32	40	30	28	61	69	59	57
1SVI15-15	1.5	56C	56C	56C	56C	14.92	10.67	11.19	10.66	9.91	6.44	32.03	32.55	32.02	31.27	6.19	7.19	6.19	6.19	6.69	30	32	40	30	28	62	70	60	58
1SVI16-16	2	56C	56C	56C	56C	15.71	11.18	12.06	11.16	10.79	6.44	33.33	34.21	33.31	32.94	7.19	7.19	6.19	6.19	6.69	31	43	51	32	33	74	82	63	64
1SVI17-17	2	56C	56C	56C	56C	16.50	11.18	12.06	11.16	10.79	6.44	34.11	34.99	34.09	33.72	7.19	7.19	6.19	6.19	6.69	31	43	51	32	33	74	82	63	64
1SVI18-18	2	56C	56C	56C	56C	17.28	11.18	12.06	11.16	10.79	6.44	34.90	35.78	34.88	34.51	7.19	7.19	6.19	6.19	6.69	32	43	51	32	33	75	83	64	65
1SVI19-19	2	56C	56C	56C	56C	18.07	11.18	12.06	11.16	10.79	6.44	35.69	36.57	35.67	35.30	7.19	7.19	6.19	6.19	6.69	33	43	51	32	33	76	84	65	66
1SVI20-20	2	56C	56C	56C	56C	18.86	11.18	12.06	11.16	10.79	6.44	36.48	37.36	36.46	36.09	7.19	7.19	6.19	6.19	6.69	34	43	51	32	33	77	85	66	67
1SVI21-21	3	145TC	56C	56C	56C	19.65	11.99	13.44	11.18	11.16	6.44	38.07	39.52	37.26	37.24	7.19	7.19	7.16	7.19	6.69	35	52	64	41	44	87	99	76	79
1SVI22-22	3	145TC	56C	56C	56C	20.43	11.99	13.44	11.18	11.16	6.44	38.86	40.31	38.05	38.03	7.19	7.19	7.16	7.19	6.69	35	52	64	41	44	87	99	76	79
1SVI23-23	3	145TC	56C	56C	56C	21.22	11.99	13.44	11.18	11.16	6.44	39.65	41.10	38.84	38.82	7.19	7.19	7.16	7.19	6.69	36	52	64	41	44	88	100	77	80
1SVI24-24	3	145TC	56C	56C	56C	22.01	11.99	13.44	11.18	11.16	6.44	40.43	41.88	39.62	39.60	7.19	7.19	7.16	7.19	6.69	37	52	64	41	44	89	101	78	81
1SVI25-25	3	145TC	56C	56C	56C	22.80	11.99	13.44	11.18	11.16	6.44	41.22	42.67	40.41	40.39	7.19	7.19	7.16	7.19	6.69	38	52	64	41	44	90	102	79	82
1SVI26-26	3	145TC	56C	56C	56C	23.58	11.99	13.44	11.18	11.16	6.44	42.01	43.46	41.20	41.18	7.19	7.19	7.16	7.19	6.69	39	52	64	41	44	91	103	80	83
1SVI27-27	3	145TC	56C	56C	56C	24.37	11.99	13.44	11.18	11.16	6.44	42.80	44.25	41.99	41.97	7.19	7.19	7.16	7.19	6.69	39	52	64	41	44	91	103	80	83
1SVI28-28	3	145TC	56C	56C	56C	25.16	11.99	13.44	11.18	11.16	6.44	43.58	45.03	42.77	42.75	7.19	7.19	7.16	7.19	6.69	40	52	64	41	44	92	104	81	84
1SVI29-29	3	145TC	56C	56C	56C	25.94	11.99	13.44	11.18	11.16	6.44	44.37	45.82	43.56	43.54	7.19	7.19	7.16	7.19	6.69	41	52	64	41	44	93	105	82	85

All listed dimensions are with Inducer, 1SVIE29-29 has 29 Stages with Impeller and 1 Inducer chamber.

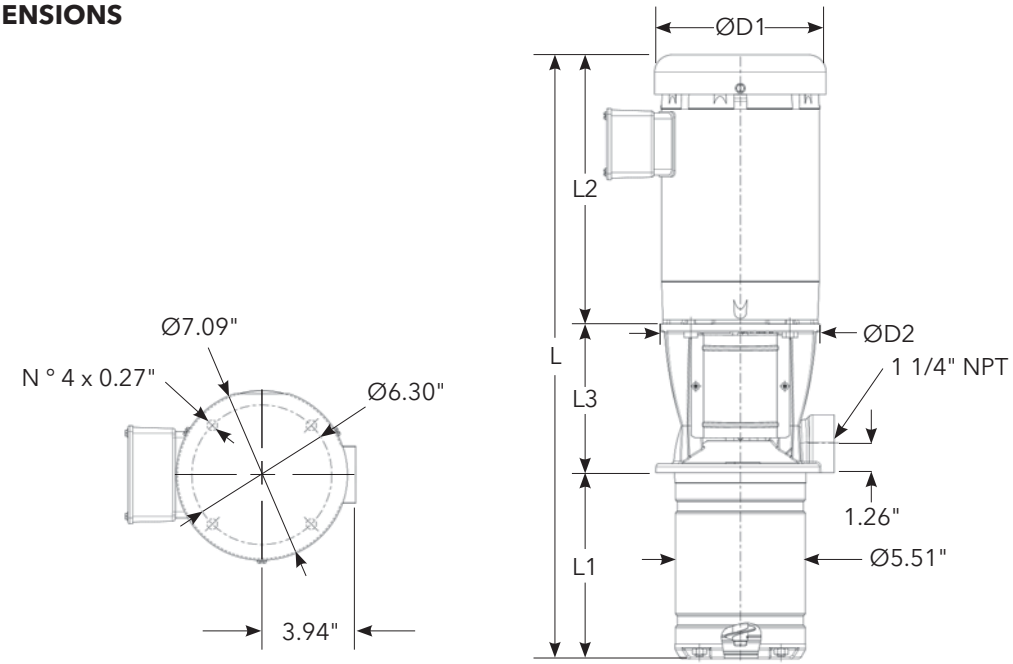
PERFORMANCE CURVE **1 e-SVI 3500 RPM** **60 Hz**



MINIMUM FLOW RATE: 2 GPM [½ m³/hr]

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

3 e-SVI DIMENSIONS



3 e-SVI SERIES – 60 Hz, 3500 RPM ODP/TEFC Enclosures

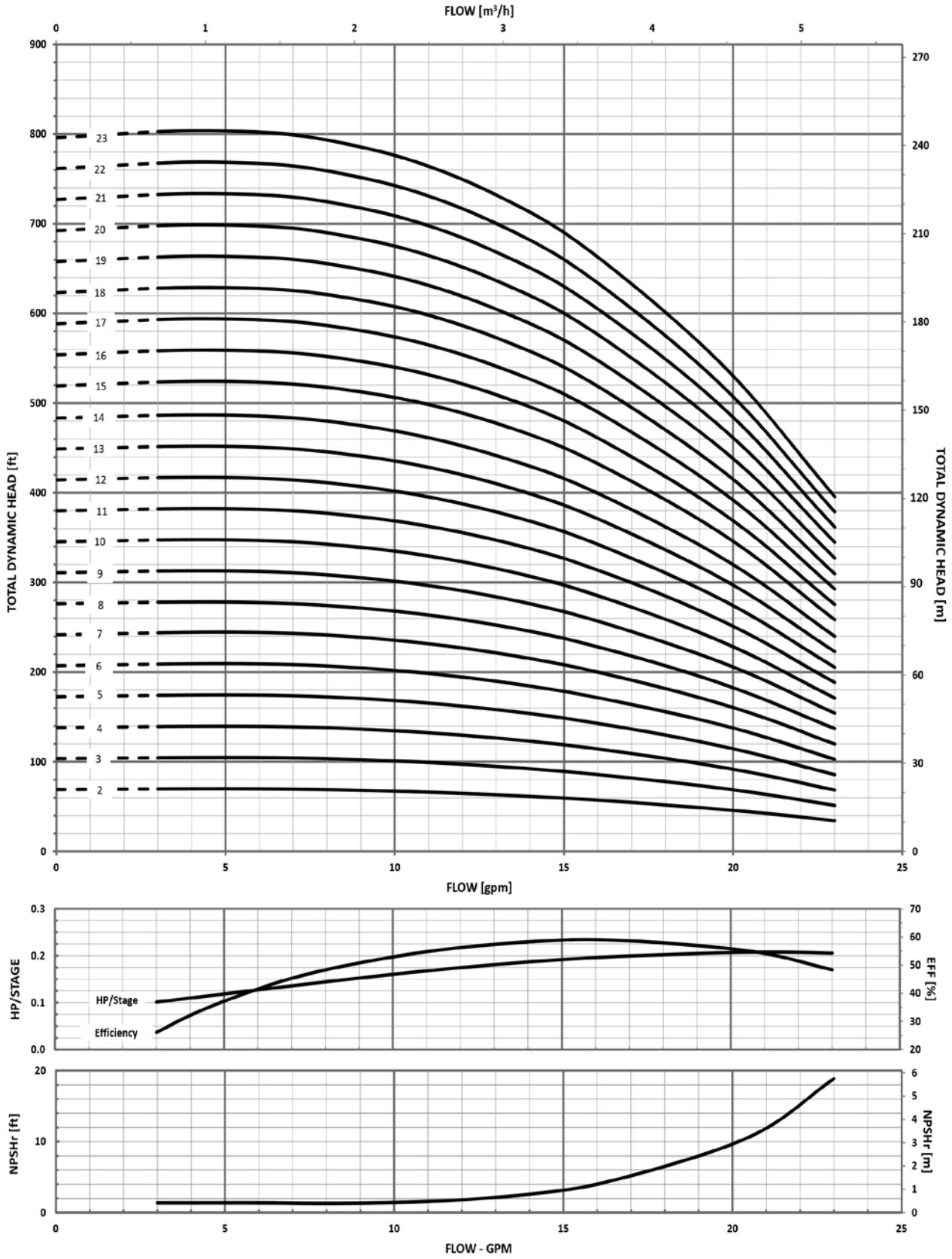
PUMP CONFIGU-RATION	MOTOR					DIMENSIONS (IN)																		WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3				L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
3SVI02-02	0.5	56C	56C	56C	56C	4.69	9.16	9.29	9.16	9.29	6.44	6.44	6.44	6.44	20.28	20.41	20.28	20.41	6.19	6.19	6.19	6.19	6.69	19	21	21	19	19	40	40	38	38
3SVI03-03	0.5	56C	56C	56C	56C	5.47	9.16	9.29	9.16	9.29	6.44	6.44	6.44	6.44	21.07	21.20	21.07	21.20	6.19	6.19	6.19	6.19	6.69	20	21	21	19	19	41	41	39	39
3SVI04-04	0.75	56C	56C	56C	56C	6.26	10.79	9.91	9.16	9.29	6.44	6.44	6.44	6.44	23.49	22.61	21.86	21.99	6.19	6.19	6.19	6.19	6.69	21	27	29	21	21	48	50	42	42
3SVI05-05	1	56C	56C	56C	56C	7.05	10.66	11.19	9.16	9.29	6.44	6.44	6.44	6.44	24.14	24.67	22.64	22.77	6.19	7.19	6.19	6.19	6.69	22	32	40	23	23	54	62	45	45
3SVI06-06	1.5	56C	56C	56C	56C	7.83	10.67	11.19	10.66	9.91	6.44	6.44	6.44	6.44	24.94	25.46	24.93	24.18	6.19	7.19	6.19	6.19	6.69	23	32	40	30	28	55	63	53	51
3SVI07-07	1.5	56C	56C	56C	56C	8.62	10.67	11.19	10.66	9.91	6.44	6.44	6.44	6.44	25.73	26.25	25.72	24.97	6.19	7.19	6.19	6.19	6.69	23	32	40	30	28	55	63	53	51
3SVI08-08	1.5	56C	56C	56C	56C	9.41	10.67	11.19	10.66	9.91	6.44	6.44	6.44	6.44	26.52	27.04	26.51	25.76	6.19	7.19	6.19	6.19	6.69	24	32	40	30	28	56	64	54	52
3SVI09-09	2	56C	56C	56C	56C	10.20	11.18	12.06	11.16	10.79	6.44	6.44	6.44	6.44	27.81	28.69	27.79	27.42	7.19	7.19	6.19	6.19	6.69	25	43	51	32	33	68	76	57	58
3SVI10-10	2	56C	56C	56C	56C	10.98	11.18	12.06	11.16	10.79	6.44	6.44	6.44	6.44	28.60	29.48	28.58	28.21	7.19	7.19	6.19	6.19	6.69	26	43	51	32	33	69	77	58	59
3SVI11-11	2	56C	56C	56C	56C	11.77	11.18	12.06	11.16	10.79	6.44	6.44	6.44	6.44	29.39	30.27	29.37	29.00	7.19	7.19	6.19	6.19	6.69	27	43	51	32	33	70	78	59	60
3SVI12-12	3	145TC	56C	56C	56C	12.56	11.99	13.44	11.18	11.16	6.44	6.44	6.44	6.44	30.99	32.44	30.18	30.16	7.19	7.19	7.16	7.19	6.69	28	52	64	41	44	80	92	69	72
3SVI13-13	3	145TC	56C	56C	56C	13.35	11.99	13.44	11.18	11.16	6.44	6.44	6.44	6.44	31.77	33.22	30.96	30.94	7.19	7.19	7.16	7.19	6.69	28	52	64	41	44	80	92	69	72
3SVI14-14	3	145TC	56C	56C	56C	14.13	11.99	13.44	11.18	11.16	6.44	6.44	6.44	6.44	32.56	34.01	31.75	31.73	7.19	7.19	7.16	7.19	6.69	29	52	64	41	44	81	93	70	73
3SVI15-15	3	145TC	56C	56C	56C	14.92	11.99	13.44	11.18	11.16	6.44	6.44	6.44	6.44	33.35	34.80	32.54	32.52	7.19	7.19	7.16	7.19	6.69	30	52	64	41	44	82	94	71	74
3SVI16-16	3	145TC	56C	56C	56C	15.71	11.99	13.44	11.18	11.16	6.44	6.44	6.44	6.44	34.14	35.59	33.33	33.31	7.19	7.19	7.16	7.19	6.69	31	52	64	41	44	83	95	72	75
3SVI17-17	5	184TC	184TC	182TC	184TC	16.50	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	37.34	38.84	35.96	37.34	8.88	8.86	9.02	8.86	9.02	36	81	92	62	69	117	128	98	105
3SVI18-18	5	184TC	184TC	182TC	184TC	17.28	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	38.12	39.62	36.74	38.12	8.88	8.86	9.02	8.86	9.02	37	81	92	62	69	118	129	99	106
3SVI19-19	5	184TC	184TC	182TC	184TC	18.07	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	38.91	40.41	37.53	38.91	8.88	8.86	9.02	8.86	9.02	38	81	92	62	69	119	130	100	107
3SVI20-20	5	184TC	184TC	182TC	184TC	18.86	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	39.70	41.20	38.32	39.70	8.88	8.86	9.02	8.86	9.02	39	81	92	62	69	120	131	101	108
3SVI21-21	5	184TC	184TC	182TC	184TC	19.65	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	40.49	41.99	39.11	40.49	8.88	8.86	9.02	8.86	9.02	40	81	92	62	69	121	132	102	109
3SVI22-22	5	184TC	184TC	182TC	184TC	20.43	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	41.27	42.77	39.89	41.27	8.88	8.86	9.02	8.86	9.02	40	81	92	62	69	121	132	102	109
3SVI23-23	5	184TC	184TC	182TC	184TC	21.22	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	42.06	43.56	40.68	42.06	8.88	8.86	9.02	8.86	9.02	41	81	92	62	69	122	133	103	110

All listed dimensions are with Inducer, 3SVI23-23 has 23 Stages with Impeller and 1 Inducer chamber.

PERFORMANCE CURVE

3 e-SVI 3500 RPM

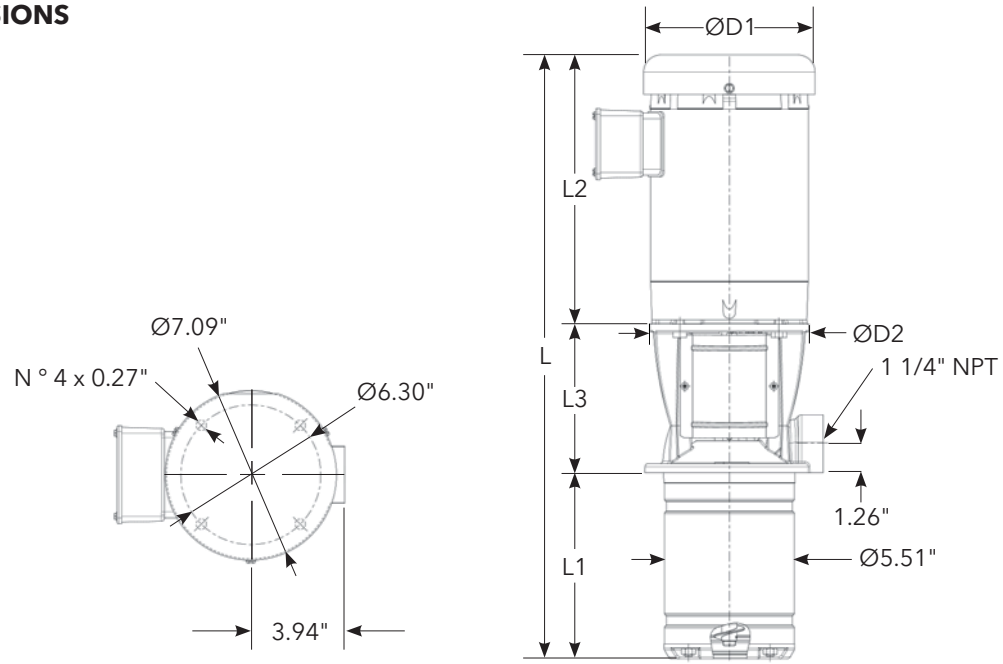
60 Hz



MINIMUM FLOW RATE: 3 GPM [.68 m³/hr]

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

5 e-SVI DIMENSIONS



5 e-SVI SERIES – 60 Hz, 3500 RPM ODP/TEFC Enclosures

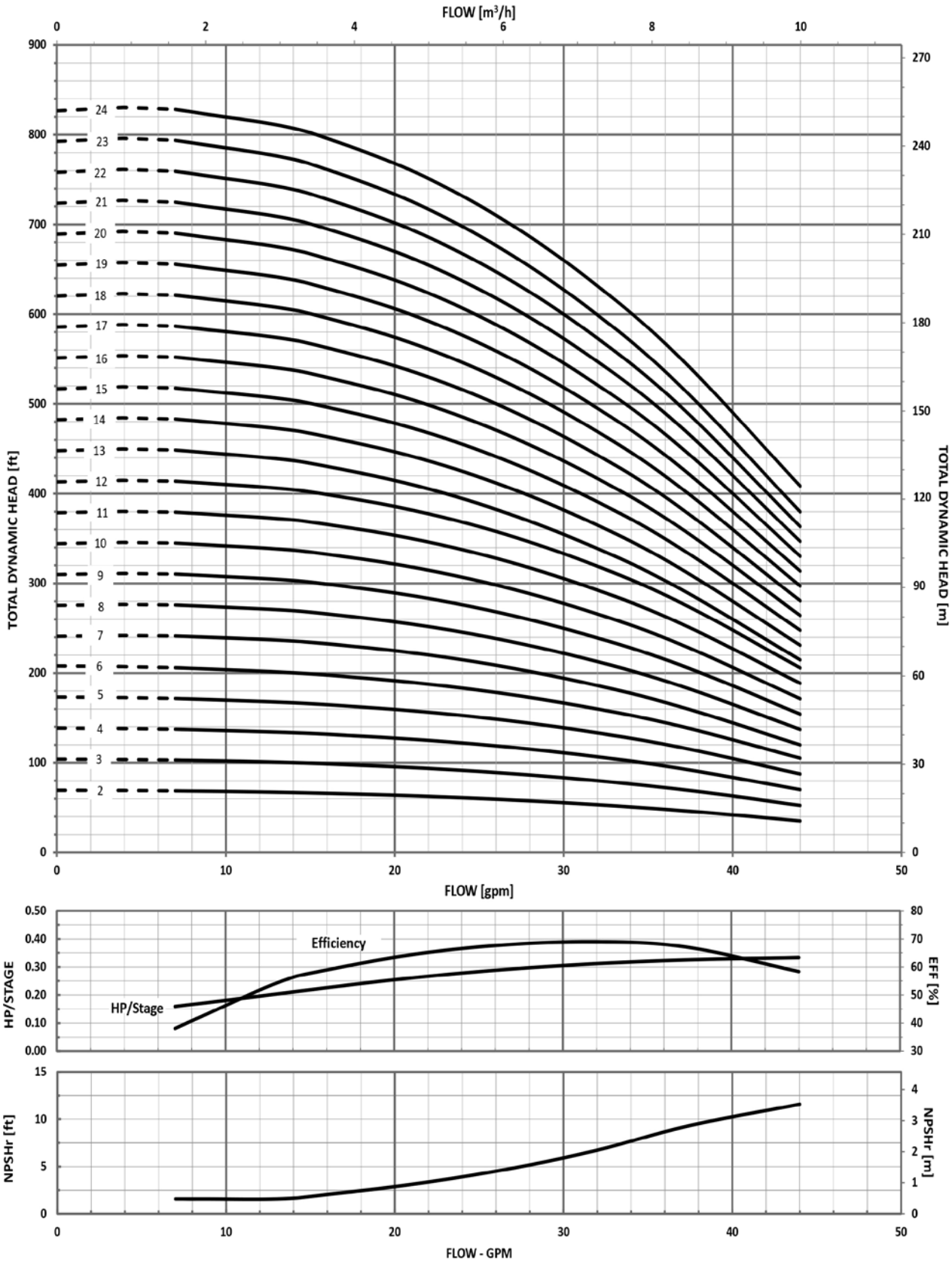
PUMP CONFIGU-RATION	MOTOR					DIMENSIONS (IN)																	WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3				L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
5SVI02-02	0.75	56C	56C	56C	56C	5.28	10.79	9.91	9.16	9.29	6.44	6.44	6.44	6.44	22.50	21.62	20.87	21.00	6.19	6.19	6.19	6.19	6.69	20	27	29	21	21	47	49	41	41
5SVI03-03	1	56C	56C	56C	56C	6.26	10.66	11.19	9.16	9.29	6.44	6.44	6.44	6.44	23.36	23.89	21.86	21.99	6.19	7.19	6.19	6.19	6.69	21	32	40	23	23	53	61	44	44
5SVI04-04	1.5	56C	56C	56C	56C	7.24	10.67	11.19	10.66	9.91	6.44	6.44	6.44	6.44	24.35	24.87	24.34	23.59	6.19	7.19	6.19	6.19	6.69	22	32	40	30	28	54	62	52	50
5SVI05-05	1.5	56C	56C	56C	56C	8.23	10.67	11.19	10.66	9.91	6.44	6.44	6.44	6.44	25.34	25.86	25.33	24.58	6.19	7.19	6.19	6.19	6.69	23	32	40	30	28	55	63	53	51
5SVI06-06	2	56C	56C	56C	56C	9.21	11.18	12.06	11.16	10.79	6.44	6.44	6.44	6.44	26.83	27.71	26.81	26.44	7.19	7.19	6.19	6.19	6.69	24	43	51	32	33	67	75	56	57
5SVI07-07	2	56C	56C	56C	56C	10.20	11.18	12.06	11.16	10.79	6.44	6.44	6.44	6.44	27.81	28.69	27.79	27.42	7.19	7.19	6.19	6.19	6.69	25	43	51	32	33	68	76	57	58
5SVI08-08	3	145TC	56C	56C	56C	11.18	11.99	13.44	11.18	11.16	6.44	6.44	6.44	6.44	29.61	31.06	28.80	28.78	7.19	7.19	7.16	7.19	6.69	26	52	64	41	44	78	90	67	70
5SVI09-09	3	145TC	56C	56C	56C	12.17	11.99	13.44	11.18	11.16	6.44	6.44	6.44	6.44	30.59	32.04	29.78	29.76	7.19	7.19	7.16	7.19	6.69	27	52	64	41	44	79	91	68	71
5SVI10-10	3	145TC	56C	56C	56C	13.15	11.99	13.44	11.18	11.16	6.44	6.44	6.44	6.44	31.58	33.03	30.77	30.75	7.19	7.19	7.16	7.19	6.69	28	52	64	41	44	80	92	69	72
5SVI11-11	5	184TC	184TC	182TC	184TC	14.13	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	34.97	36.47	33.59	34.97	8.88	8.86	9.02	8.86	9.02	33	81	92	62	69	114	125	95	102
5SVI12-12	5	184TC	184TC	182TC	184TC	15.12	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	35.96	37.46	34.58	35.96	8.88	8.86	9.02	8.86	9.02	34	81	92	62	69	115	126	96	103
5SVI13-13	5	184TC	184TC	182TC	184TC	16.10	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	36.94	38.44	35.56	36.94	8.88	8.86	9.02	8.86	9.02	35	81	92	62	69	116	127	97	104
5SVI14-14	5	184TC	184TC	182TC	184TC	17.09	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	37.93	39.43	36.55	37.93	8.88	8.86	9.02	8.86	9.02	36	81	92	62	69	117	128	98	105
5SVI15-15	5	184TC	184TC	182TC	184TC	18.07	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	38.91	40.41	37.53	38.91	8.88	8.86	9.02	8.86	9.02	37	81	92	62	69	118	129	99	106
5SVI16-16	5	184TC	184TC	182TC	184TC	19.06	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	39.89	41.39	38.51	39.89	8.88	8.86	9.02	8.86	9.02	38	81	92	62	69	119	130	100	107
5SVI17-17	5	184TC	184TC	182TC	184TC	20.04	13.93	15.43	12.55	13.93	6.91	6.91	6.91	6.91	40.88	42.38	39.50	40.88	8.88	8.86	9.02	8.86	9.02	39	81	92	62	69	120	131	101	108
5SVI18-18	7.5	213TC	213TC	184TC	184TC	21.02	13.88	15.53	13.93	15.43	7.48	7.48	6.91	6.91	42.39	44.04	41.86	43.36	8.89	10.62	8.88	8.86	9.02	43	100	120	75	85	143	163	118	128
5SVI19-19	7.5	213TC	213TC	184TC	184TC	22.01	13.88	15.53	13.93	15.43	7.48	7.48	6.91	6.91	43.37	45.02	42.85	44.35	8.89	10.62	8.88	8.86	9.02	44	100	120	75	85	144	164	119	129
5SVI20-20	7.5	213TC	213TC	184TC	184TC	22.99	13.88	15.53	13.93	15.43	7.48	7.48	6.91	6.91	44.36	46.01	43.83	45.33	8.89	10.62	8.88	8.86	9.02	45	100	120	75	85	145	165	120	130
5SVI21-21	7.5	213TC	213TC	184TC	184TC	23.98	13.88	15.53	13.93	15.43	7.48	7.48	6.91	6.91	45.34	46.99	44.82	46.32	8.89	10.62	8.88	8.86	9.02	46	100	120	75	85	146	166	121	131
5SVI22-22	7.5	213TC	213TC	184TC	184TC	24.96	13.88	15.53	13.93	15.43	7.48	7.48	6.91	6.91	46.32	47.97	45.80	47.30	8.89	10.62	8.88	8.86	9.02	47	100	120	75	85	147	167	122	132
5SVI23-23	7.5	213TC	213TC	184TC	184TC	25.94	13.88	15.53	13.93	15.43	7.48	7.48	6.91	6.91	47.31	48.96	46.78	48.28	8.89	10.62	8.88	8.86	9.02	48	100	120	75	85	148	168	123	133
5SVI24-24	7.5	213TC	213TC	184TC	184TC	26.93	13.88	15.53	13.93	15.43	7.48	7.48	6.91	6.91	48.29	49.94	47.77	49.27	8.89	10.62	8.88	8.86	9.02	49	100	120	75	85	149	169	124	134

All listed dimensions are with Inducer, 5SVI24-24 has 24 Stages with Impeller and 1 Inducer chamber.

PERFORMANCE CURVE

5 e-SVI 3500 RPM

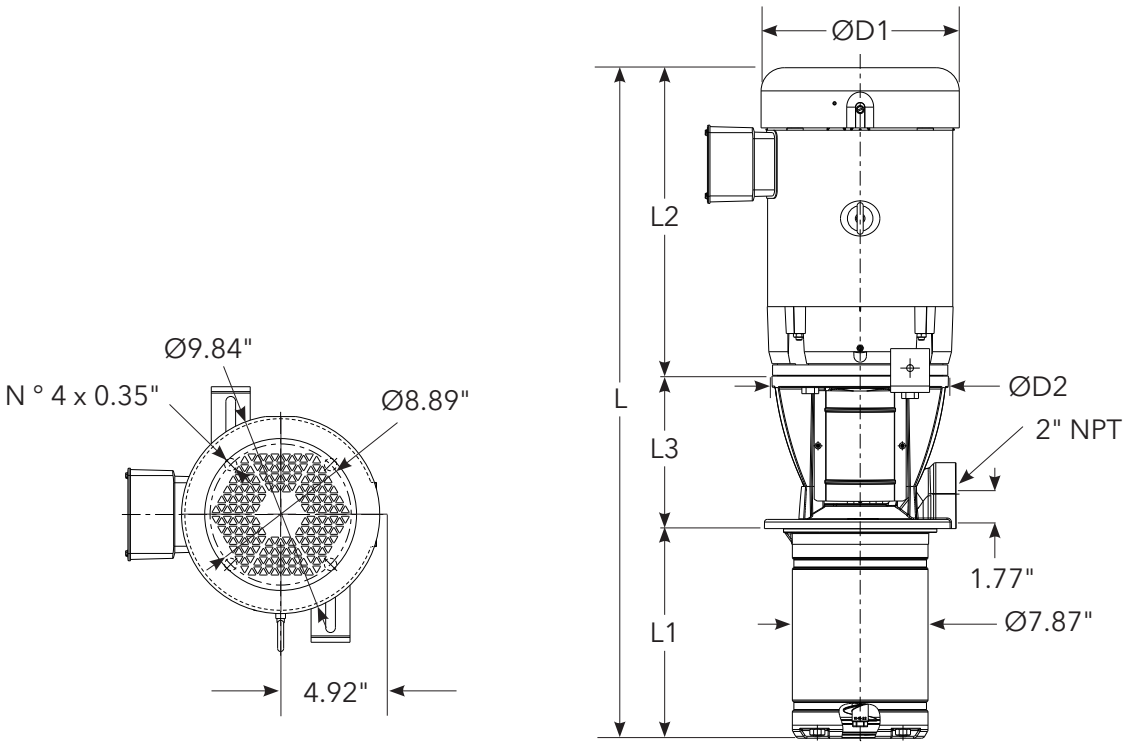
60 Hz



MINIMUM FLOW RATE: 7 GPM [1.6 m³/hr]

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

10 e-SVI DIMENSIONS



10 e-SVI SERIES – 60 Hz, 3500 RPM ODP/TEFC Enclosures

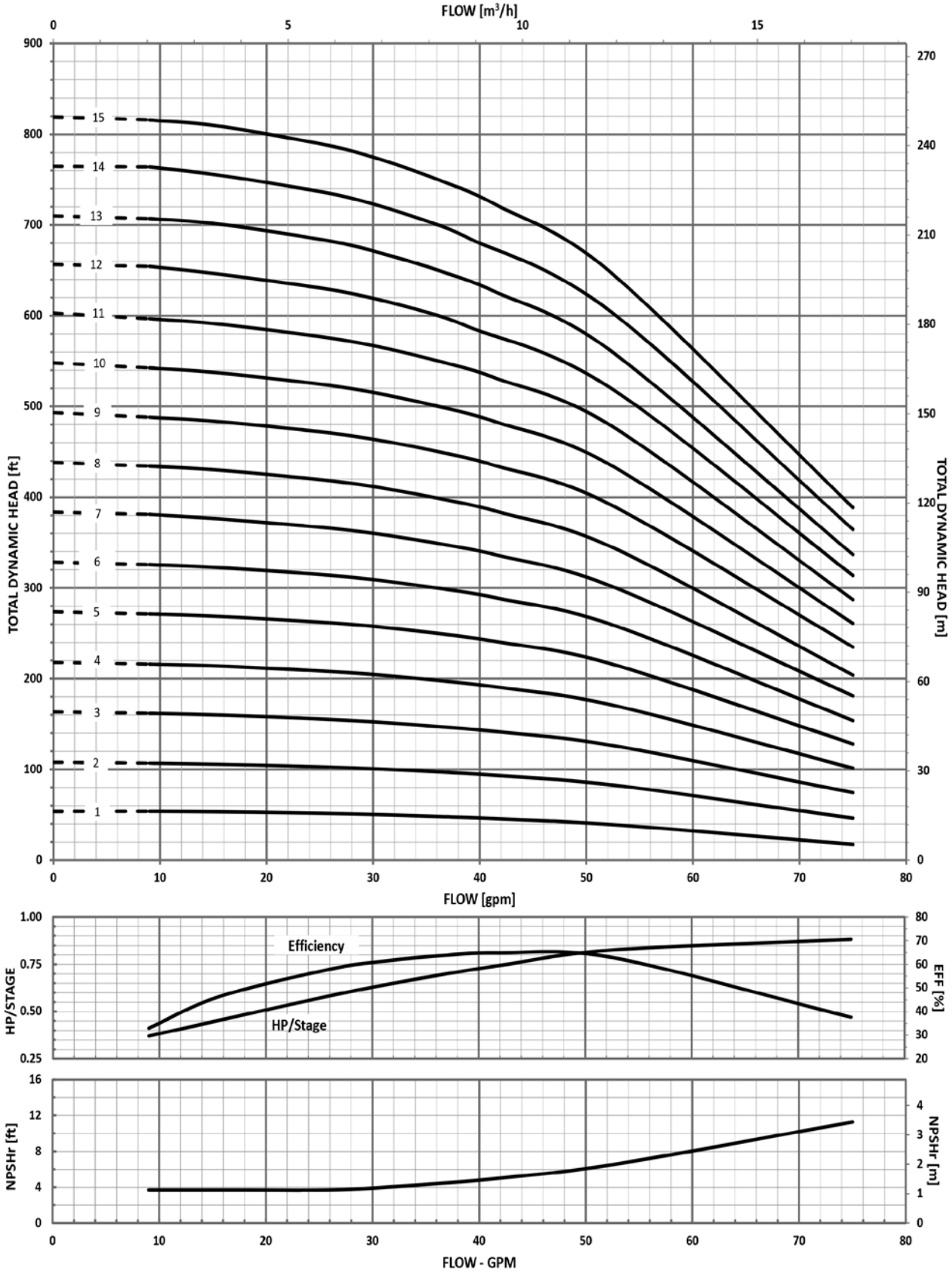
PUMP CONFIGU-RATION	MOTOR					DIMENSIONS (IN)																		WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3				L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
10SVI02-01	0.75	56C	56C	56C	56C	6.99	10.79	9.91	9.16	9.29	7.44	7.44	7.44	7.44	25.22	24.34	23.59	23.72	6.19	6.19	6.19	6.19	7.40	33	27	29	21	21	60	62	54	54
10SVI02-02	2	56C	56C	56C	56C	6.99	11.18	12.06	11.16	10.79	7.44	7.44	7.44	7.44	25.61	26.49	25.59	25.22	7.19	7.19	6.19	6.19	7.40	33	43	51	32	33	76	84	65	66
10SVI03-03	3	145TC	56C	56C	56C	8.25	11.99	13.44	11.18	11.16	7.44	7.44	7.44	7.44	27.68	29.13	26.87	26.85	7.19	7.19	7.16	7.19	7.40	35	52	64	41	44	87	99	76	79
10SVI04-04	5	184TC	184TC	182TC	184TC	9.51	13.93	15.43	12.55	13.93	7.64	7.64	7.64	7.64	31.08	32.58	29.70	31.08	8.88	8.86	9.02	8.86	9.06	40	81	92	62	69	121	132	102	109
10SVI05-05	5	184TC	184TC	182TC	184TC	10.77	13.93	15.43	12.55	13.93	7.64	7.64	7.64	7.64	32.34	33.84	30.96	32.34	8.88	8.86	9.02	8.86	9.06	42	81	92	62	69	123	134	104	111
10SVI06-06	5	184TC	184TC	182TC	184TC	12.03	13.93	15.43	12.55	13.93	7.64	7.64	7.64	7.64	33.60	35.10	32.22	33.60	8.88	8.86	9.02	8.86	9.06	44	81	92	62	69	125	136	106	113
10SVI07-07	7.5	213TC	213TC	184TC	184TC	13.29	13.88	15.53	13.93	15.43	8.21	8.21	7.64	7.64	35.38	37.03	34.86	36.36	8.89	10.62	8.88	8.86	9.06	49	100	120	75	85	149	169	124	134
10SVI08-08	7.5	213TC	213TC	184TC	184TC	14.55	13.88	15.53	13.93	15.43	8.21	8.21	7.64	7.64	36.64	38.29	36.12	37.62	8.89	10.62	8.88	8.86	9.06	51	100	120	75	85	151	171	126	136
10SVI09-09	7.5	213TC	213TC	184TC	184TC	15.81	13.88	15.53	13.93	15.43	8.21	8.21	7.64	7.64	37.90	39.55	37.37	38.87	8.89	10.62	8.88	8.86	9.06	53	100	120	75	85	153	173	128	138
10SVI10-10	10	215TC	215TC	213TC	215TC	17.07	16.63	16.68	15.55	15.51	8.21	8.21	8.21	8.21	41.91	41.96	40.83	40.79	10.62	10.62	10.18	10.28	9.06	55	132	145	107	122	187	200	162	177
10SVI11-11	10	215TC	215TC	213TC	215TC	18.33	16.63	16.68	15.55	15.51	8.21	8.21	8.21	8.21	43.17	43.22	42.09	42.05	10.62	10.62	10.18	10.28	9.06	57	132	145	107	122	189	202	164	179
10SVI12-12	10	215TC	215TC	213TC	215TC	19.59	16.63	16.68	15.55	15.51	8.21	8.21	8.21	8.21	44.43	44.48	43.35	43.31	10.62	10.62	10.18	10.28	9.06	59	132	145	107	122	191	204	166	181
10SVI13-13	10	215TC	215TC	213TC	215TC	20.85	16.63	16.68	15.55	15.51	8.21	8.21	8.21	8.21	45.69	45.74	44.61	44.57	10.62	10.62	10.18	10.28	9.06	61	132	145	107	122	193	206	168	183
10SVI14-14	10	215TC	215TC	213TC	215TC	22.11	16.63	16.68	15.55	15.51	8.21	8.21	8.21	8.21	46.95	47.00	45.87	45.83	10.62	10.62	10.18	10.28	9.06	63	132	145	107	122	195	208	170	185
10SVI15-15	15	-	-	215TC	254TC	23.37	-	-	15.55	16.57	-	-	8.21	8.84	-	-	47.13	48.78	-	-	10.18	10.28	9.06	68	-	-	125	195	-	-	193	263

All listed dimensions are with Inducer, 10SVI15-15 has 15 Stages with Impeller and 1 Inducer chamber.

PERFORMANCE CURVE

10 e-SVI 3500 RPM

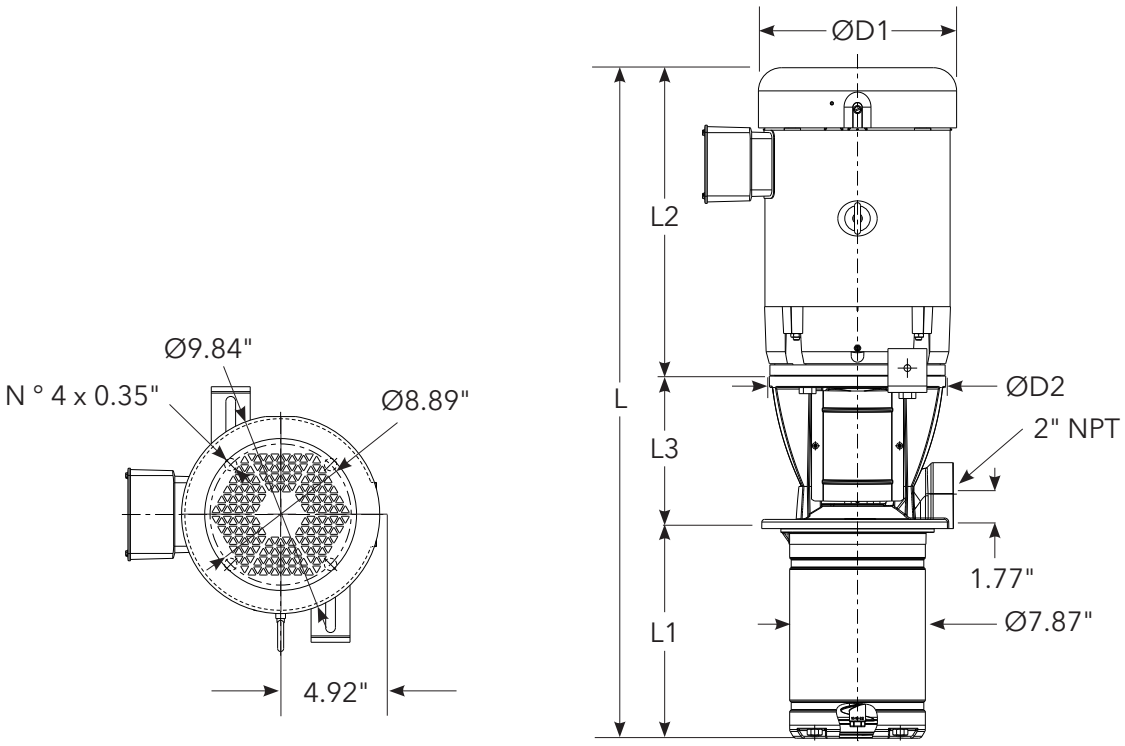
60 Hz



MINIMUM FLOW RATE: 9 GPM [2 m³/hr]

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

15 e-SVI DIMENSIONS

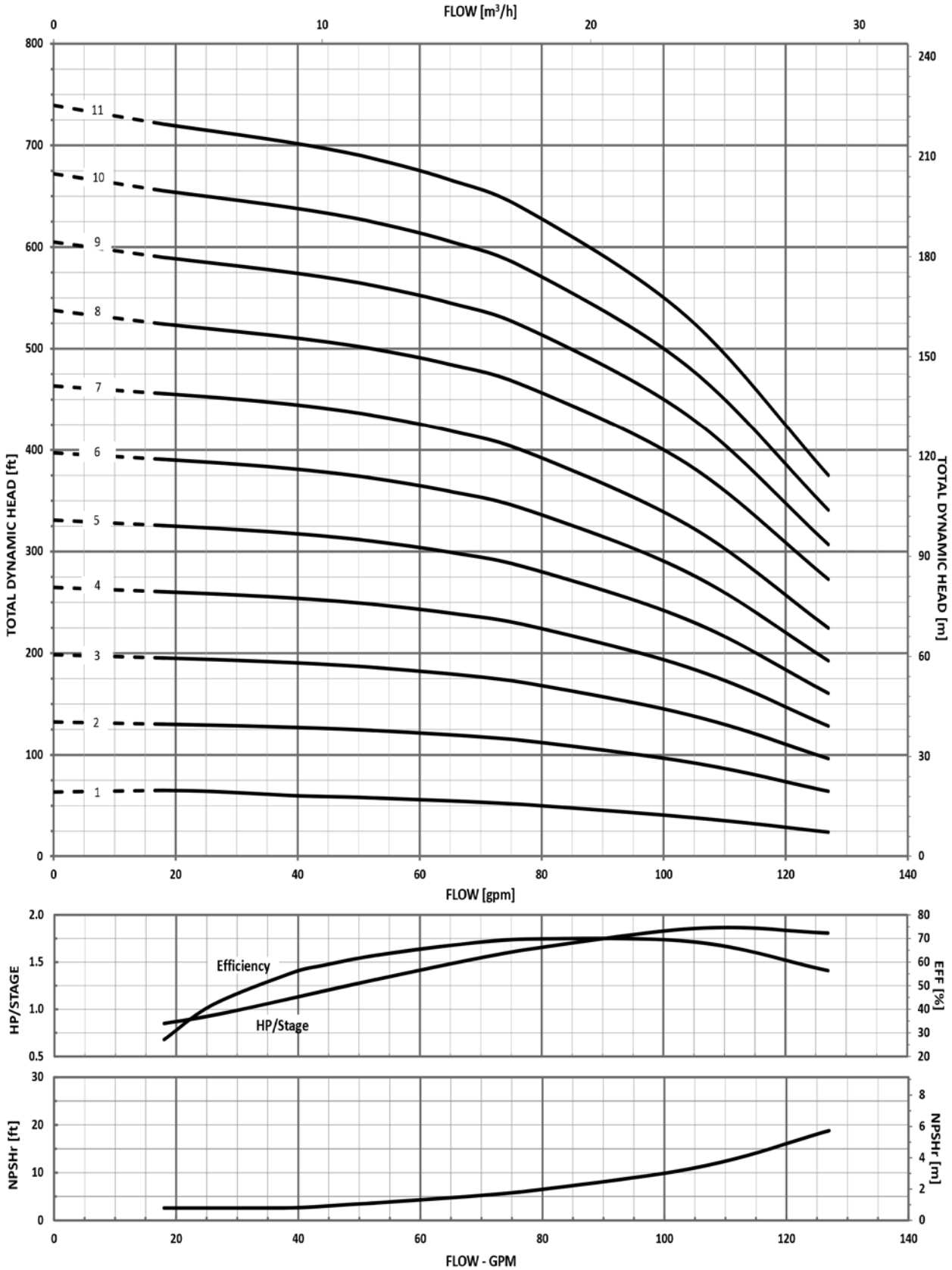


15 e-SVI SERIES – 60 Hz, 3500 RPM ODP/TEFC Enclosures

PUMP CONFIGU-RATION	MOTOR					DIMENSIONS (IN)																		WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3				L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
15SVI02-01	2	56C	56C	56C	56C	8.88	11.18	12.06	11.16	10.79	7.44	7.44	7.44	7.44	27.50	28.38	27.48	27.11	7.19	7.19	6.19	6.19	7.40	36	43	51	32	33	79	87	68	69
15SVI02-02	5	184TC	184TC	182TC	184TC	8.88	13.93	15.43	12.55	13.93	7.64	7.64	7.64	7.64	30.45	31.95	29.07	30.45	8.88	8.86	9.02	8.86	9.06	40	81	92	62	69	121	132	102	109
15SVI03-03	5	184TC	184TC	182TC	184TC	10.77	13.93	15.43	12.55	13.93	7.64	7.64	7.64	7.64	32.34	33.84	30.96	32.34	8.88	8.86	9.02	8.86	9.06	43	81	92	62	69	124	135	105	112
15SVI04-04	7.5	213TC	213TC	184TC	184TC	12.66	13.88	15.53	13.93	15.43	8.21	8.21	7.64	7.64	34.75	36.40	34.23	35.73	8.89	10.62	8.88	8.86	9.06	49	100	120	75	85	149	169	124	134
15SVI05-05	10	215TC	215TC	213TC	215TC	14.55	16.63	16.68	15.55	15.51	8.21	8.21	8.21	8.21	39.39	39.44	38.31	38.27	10.62	10.62	10.18	10.28	9.06	52	132	145	107	122	184	197	159	174
15SVI06-06	10	215TC	215TC	213TC	215TC	16.44	16.63	16.68	15.55	15.51	8.21	8.21	8.21	8.21	41.28	41.33	40.20	40.16	10.62	10.62	10.18	10.28	9.06	54	132	145	107	122	186	199	161	176
15SVI07-07	15	–	–	215TC	254TC	18.33	–	–	15.55	16.57	–	–	8.21	8.84	–	–	42.09	43.74	–	–	10.18	10.28	9.06	61	–	–	125	195	–	–	186	256
15SVI08-08	15	–	–	215TC	254TC	20.22	–	–	15.55	16.57	–	–	8.21	8.84	–	–	43.98	45.63	–	–	10.18	10.28	9.06	63	–	–	125	195	–	–	188	258
15SVI09-09	15	–	–	215TC	254TC	22.11	–	–	15.55	16.57	–	–	8.21	8.84	–	–	45.87	47.52	–	–	10.18	10.28	9.06	66	–	–	125	195	–	–	191	261
15SVI10-10	20	–	–	254TC	256TC	24.00	–	–	16.66	20.08	–	–	8.84	8.84	–	–	49.50	52.92	–	–	10.18	13.13	9.06	69	–	–	144	285	–	–	213	354
15SVI11-11	20	–	–	254TC	256TC	25.89	–	–	16.66	20.08	–	–	8.84	8.84	–	–	51.39	54.81	–	–	10.18	13.13	9.06	72	–	–	144	285	–	–	216	357

All listed dimensions are with Inducer, 15SVI11-11 has 11 Stages with Impeller and 1 Inducer chamber.

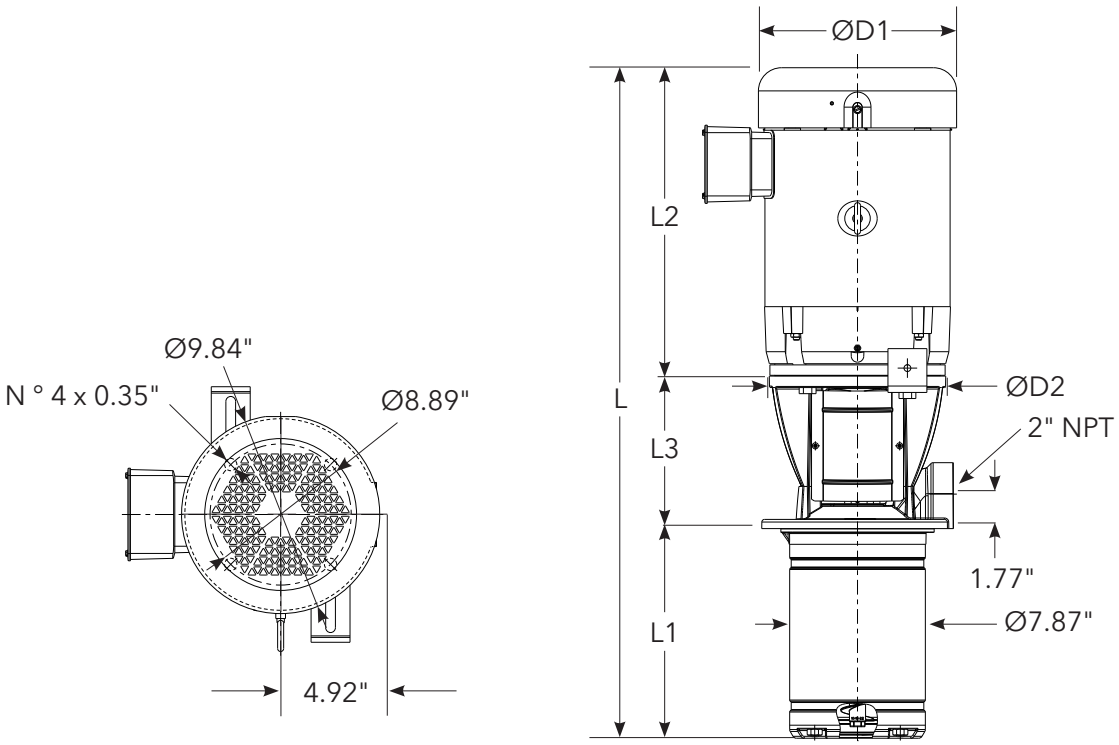
PERFORMANCE CURVE **15 e-SVI 3500 RPM** **60 Hz**



MINIMUM FLOW RATE: 18 GPM [4.1 m³/hr]

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

22 e-SVI DIMENSIONS

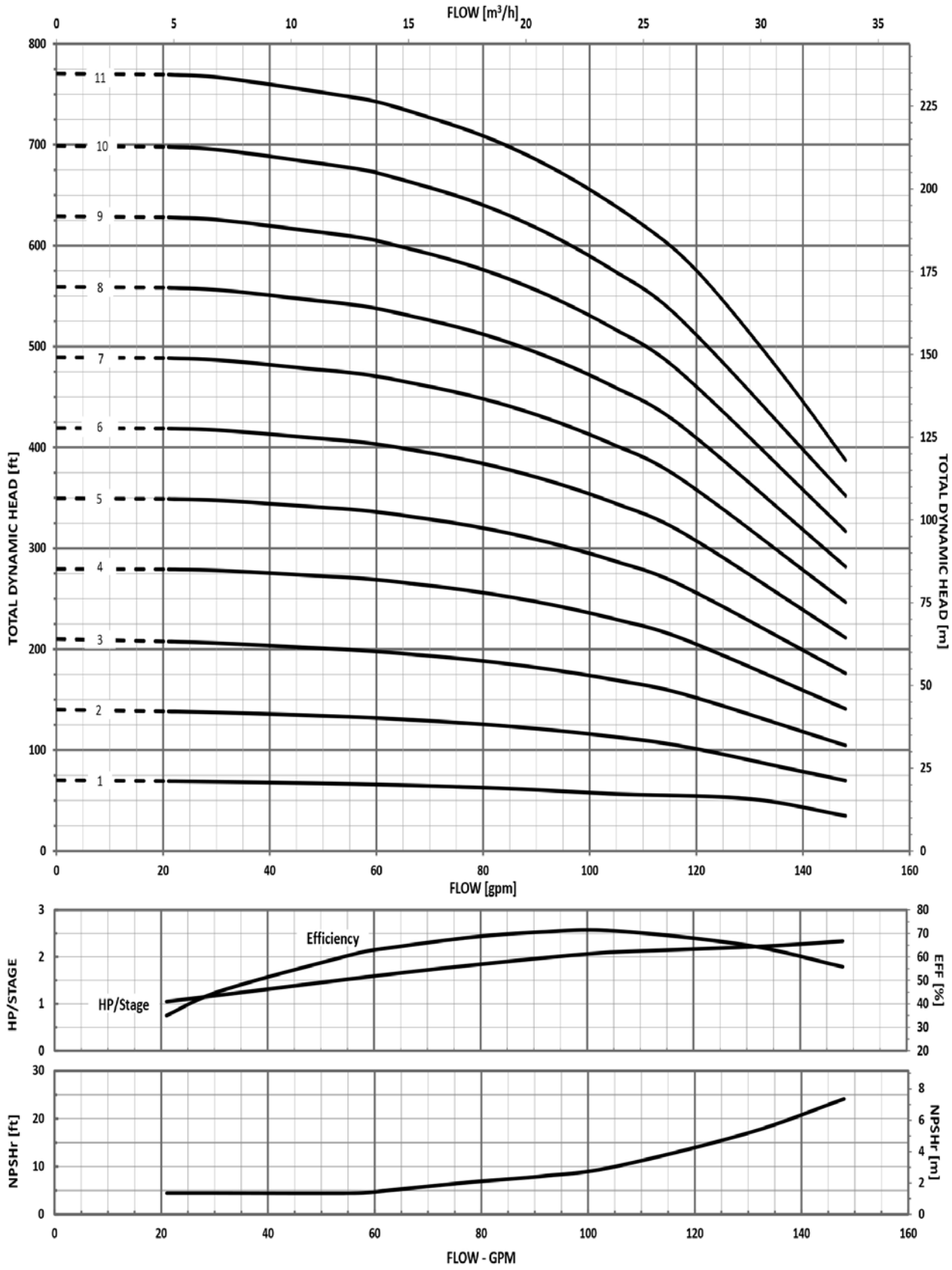


22 e-SVI SERIES – 60 Hz, 3500 RPM ODP/TEFC Enclosures

PUMP CONFIGURATION	MOTOR					DIMENSIONS (IN)																		WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3				L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
22SVI02-01	3	145TC	56C	56C	56C	8.88	11.99	13.44	11.18	11.16	7.44	7.44	7.44	7.44	28.31	29.76	27.50	27.48	7.19	7.19	7.16	7.19	7.40	36	52	64	41	44	88	100	77	80
22SVI02-02	5	184TC	184TC	182TC	184TC	8.88	13.93	15.43	12.55	13.93	7.64	7.64	7.64	7.64	30.45	31.95	29.07	30.45	8.88	8.86	9.02	8.86	9.06	40	81	92	62	69	121	132	102	109
22SVI03-03	7.5	213TC	213TC	184TC	184TC	10.77	13.88	15.53	13.93	15.43	8.21	8.21	7.64	7.64	32.86	34.51	32.34	33.84	8.89	10.62	8.88	8.86	9.06	46	100	120	75	85	146	166	121	131
22SVI04-04	10	215TC	215TC	213TC	215TC	12.66	16.63	16.68	15.55	15.51	8.21	8.21	8.21	8.21	37.50	37.55	36.42	36.38	10.62	10.62	10.18	10.28	9.06	49	132	145	107	122	181	194	156	171
22SVI05-05	15	-	-	215TC	254TC	14.55	-	-	15.55	16.57	-	-	8.21	8.84	-	-	38.31	39.96	-	-	10.18	10.28	9.06	55	-	-	125	195	-	-	180	250
22SVI06-06	15	-	-	215TC	254TC	16.44	-	-	15.55	16.57	-	-	8.21	8.84	-	-	40.20	41.85	-	-	10.18	10.28	9.06	58	-	-	125	195	-	-	183	253
22SVI07-07	15	-	-	215TC	254TC	18.33	-	-	15.55	16.57	-	-	8.21	8.84	-	-	42.09	43.74	-	-	10.18	10.28	9.06	61	-	-	125	195	-	-	186	256
22SVI08-08	20	-	-	254TC	256TC	20.22	-	-	16.66	20.08	-	-	8.84	8.84	-	-	45.72	49.14	-	-	10.18	13.13	9.06	64	-	-	144	285	-	-	208	349
22SVI09-09	20	-	-	254TC	256TC	22.11	-	-	16.66	20.08	-	-	8.84	8.84	-	-	47.61	51.03	-	-	10.18	13.13	9.06	66	-	-	144	285	-	-	210	351
22SVI10-10	25	-	-	256TC	284TC	24.00	-	-	22.69	19.54	-	-	8.84	9.46	-	-	55.53	53.00	-	-	11.50	12.94	11.26	81	-	-	265	283	-	-	346	364
22SVI11-11	25	-	-	256TC	284TC	25.89	-	-	22.69	19.54	-	-	8.84	9.46	-	-	57.42	54.89	-	-	11.50	12.94	11.26	84	-	-	265	283	-	-	349	367

All listed dimensions are with Inducer, 22SVI11-11 has 11 Stages with Impeller and 1 Inducer chamber.

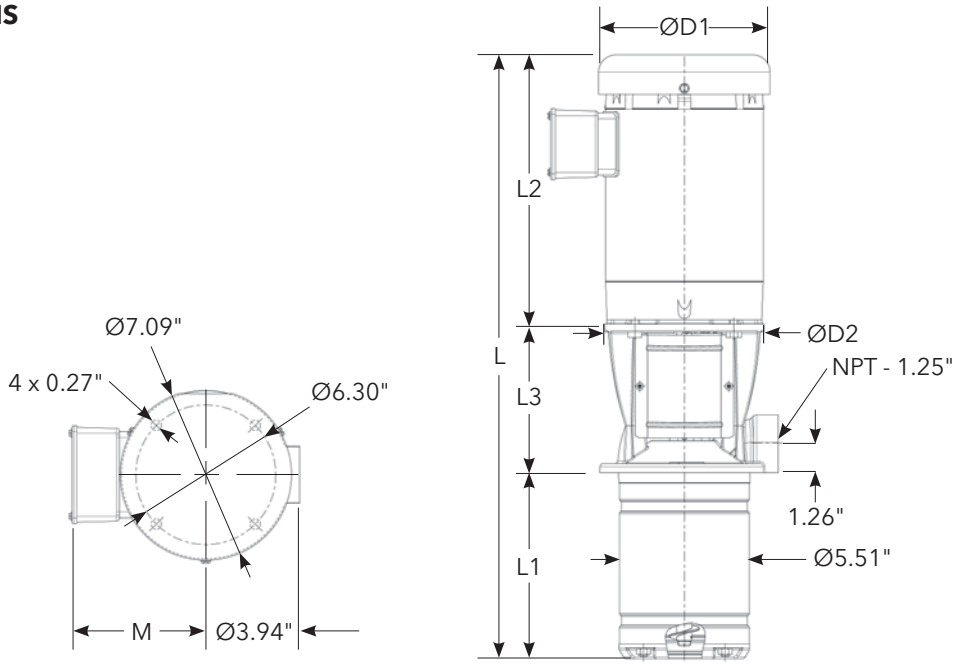
PERFORMANCE CURVE **22 e-SVI 3500 RPM** **60 Hz**



MINIMUM FLOW RATE: 21 GPM [4.8 m³/hr]

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

1 e-SVI DIMENSIONS



1 e-SVI SERIES – 60 Hz, 1750 RPM ODP/TEFC Enclosures

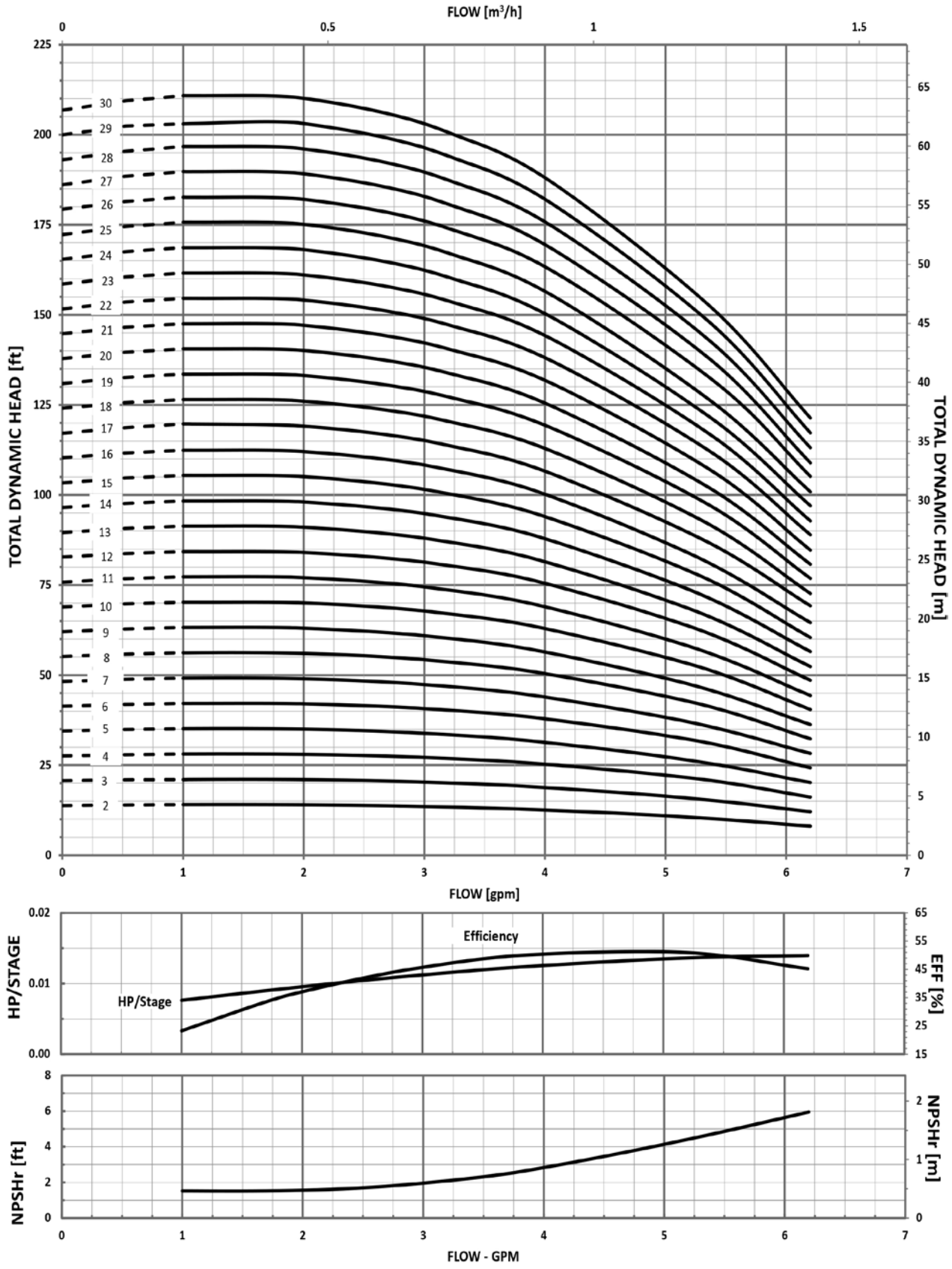
PUMP CONFIGURATION	MOTOR					DIMENSIONS (IN)															WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3	L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
1SVI02-02	0.5	56C	56C	56C	56C	4.69	10.67	9.91	10.66	10.17	6.44	21.79	21.03	21.78	21.29	6.19	6.19	7.19	7.19	6.69	20	32	27	37	32	52	47	57	52
1SVI03-03	0.5	56C	56C	56C	56C	5.47	10.67	9.91	10.66	10.17	6.44	22.58	21.82	22.57	22.08	6.19	6.19	7.19	7.19	6.69	20	32	27	37	32	52	47	57	52
1SVI04-04	0.5	56C	56C	56C	56C	6.26	10.67	9.91	10.66	10.17	6.44	23.37	22.61	23.36	22.87	6.19	6.19	7.19	7.19	6.69	21	32	27	37	32	53	48	58	53
1SVI05-05	0.5	56C	56C	56C	56C	7.05	10.67	9.91	10.66	10.17	6.44	24.15	23.39	24.14	23.65	6.19	6.19	7.19	7.19	6.69	22	32	27	37	32	54	49	59	54
1SVI06-06	0.5	56C	56C	56C	56C	7.83	10.67	9.91	10.66	10.17	6.44	24.94	24.18	24.93	24.44	6.19	6.19	7.19	7.19	6.69	23	32	27	37	32	55	50	60	55
1SVI07-07	0.5	56C	56C	56C	56C	8.62	10.67	9.91	10.66	10.17	6.44	25.73	24.97	25.72	25.23	6.19	6.19	7.19	7.19	6.69	23	32	27	37	32	55	50	60	55
1SVI08-08	0.5	56C	56C	56C	56C	9.41	10.67	9.91	10.66	10.17	6.44	26.52	25.76	26.51	26.02	6.19	6.19	7.19	7.19	6.69	24	32	27	37	32	56	51	61	56
1SVI09-09	0.5	56C	56C	56C	56C	10.20	10.67	9.91	10.66	10.17	6.44	27.30	26.54	27.29	26.80	6.19	6.19	7.19	7.19	6.69	25	32	27	37	32	57	52	62	57
1SVI10-10	0.5	56C	56C	56C	56C	10.98	10.67	9.91	10.66	10.17	6.44	28.09	27.33	28.08	27.59	6.19	6.19	7.19	7.19	6.69	26	32	27	37	32	58	53	63	58
1SVI11-11	0.5	56C	56C	56C	56C	11.77	10.67	9.91	10.66	10.17	6.44	28.88	28.12	28.87	28.38	6.19	6.19	7.19	7.19	6.69	27	32	27	37	32	59	54	64	59
1SVI12-12	0.5	56C	56C	56C	56C	12.56	10.67	9.91	10.66	10.17	6.44	29.67	28.91	29.66	29.17	6.19	6.19	7.19	7.19	6.69	27	32	27	37	32	59	54	64	59
1SVI13-13	0.5	56C	56C	56C	56C	13.35	10.67	9.91	10.66	10.17	6.44	30.45	29.69	30.44	29.95	6.19	6.19	7.19	7.19	6.69	28	32	27	37	32	60	55	65	60
1SVI14-14	0.5	56C	56C	56C	56C	14.13	10.67	9.91	10.66	10.17	6.44	31.24	30.48	31.23	30.74	6.19	6.19	7.19	7.19	6.69	29	32	27	37	32	61	56	66	61
1SVI15-15	0.5	56C	56C	56C	56C	14.92	10.67	9.91	10.66	10.17	6.44	32.03	31.27	32.02	31.53	6.19	6.19	7.19	7.19	6.69	30	32	27	37	32	62	57	67	62
1SVI16-16	0.5	56C	56C	56C	56C	15.71	10.67	9.91	10.66	10.17	6.44	32.82	32.06	32.81	32.32	6.19	6.19	7.19	7.19	6.69	31	32	27	37	32	63	58	68	63
1SVI17-17	0.5	56C	56C	56C	56C	16.50	10.67	9.91	10.66	10.17	6.44	33.60	32.84	33.59	33.10	6.19	6.19	7.19	7.19	6.69	31	32	27	37	32	63	58	68	63
1SVI18-18	0.5	56C	56C	56C	56C	17.28	10.67	9.91	10.66	10.17	6.44	34.39	33.63	34.38	33.89	6.19	6.19	7.19	7.19	6.69	32	32	27	37	32	64	59	69	64
1SVI19-19	0.5	56C	56C	56C	56C	18.07	10.67	9.91	10.66	10.17	6.44	35.18	34.42	35.17	34.68	6.19	6.19	7.19	7.19	6.69	33	32	27	37	32	65	60	70	65
1SVI20-20	0.5	56C	56C	56C	56C	18.86	10.67	9.91	10.66	10.17	6.44	35.97	35.21	35.96	35.47	6.19	6.19	7.19	7.19	6.69	34	32	27	37	32	66	61	71	66
1SVI21-21	0.5	56C	56C	56C	56C	19.65	10.67	9.91	10.66	10.17	6.44	36.75	35.99	36.74	36.25	6.19	6.19	7.19	7.19	6.69	35	32	27	37	32	67	62	72	67
1SVI22-22	0.5	56C	56C	56C	56C	20.43	10.67	9.91	10.66	10.17	6.44	37.54	36.78	37.53	37.04	6.19	6.19	7.19	7.19	6.69	35	32	27	37	32	67	62	72	67
1SVI23-23	0.5	56C	56C	56C	56C	21.22	10.67	9.91	10.66	10.17	6.44	38.33	37.57	38.32	37.83	6.19	6.19	7.19	7.19	6.69	36	32	27	37	32	68	63	73	68
1SVI24-24	0.5	56C	56C	56C	56C	22.01	10.67	9.91	10.66	10.17	6.44	39.11	38.35	39.10	38.61	6.19	6.19	7.19	7.19	6.69	37	32	27	37	32	69	64	74	69
1SVI25-25	0.5	56C	56C	56C	56C	22.80	10.67	9.91	10.66	10.17	6.44	39.90	39.14	39.89	39.40	6.19	6.19	7.19	7.19	6.69	38	32	27	37	32	70	65	75	70
1SVI26-26	0.5	56C	56C	56C	56C	23.58	10.67	9.91	10.66	10.17	6.44	40.69	39.93	40.68	40.19	6.19	6.19	7.19	7.19	6.69	39	32	27	37	32	71	66	76	71
1SVI27-27	0.5	56C	56C	56C	56C	24.37	10.67	9.91	10.66	10.17	6.44	41.48	40.72	41.47	40.98	6.19	6.19	7.19	7.19	6.69	39	32	27	37	32	71	66	76	71
1SVI28-28	0.5	56C	56C	56C	56C	25.16	10.67	9.91	10.66	10.17	6.44	42.26	41.50	42.25	41.76	6.19	6.19	7.19	7.19	6.69	40	32	27	37	32	72	67	77	72
1SVI29-29	0.5	56C	56C	56C	56C	25.94	10.67	9.91	10.66	10.17	6.44	43.05	42.29	43.04	42.55	6.19	6.19	7.19	7.19	6.69	41	32	27	37	32	73	68	78	73
1SVI30-30	0.5	56C	56C	56C	56C	26.73	10.67	9.91	10.66	10.17	6.44	43.84	43.08	43.83	43.34	6.19	6.19	7.19	7.19	6.69	42	32	27	37	32	74	69	79	74

All listed dimensions are with Inducer, 1SVIE29-29 has 29 Stages with Impeller and 1 Inducer chamber.

PERFORMANCE CURVE

1 e-SVI 1750 RPM

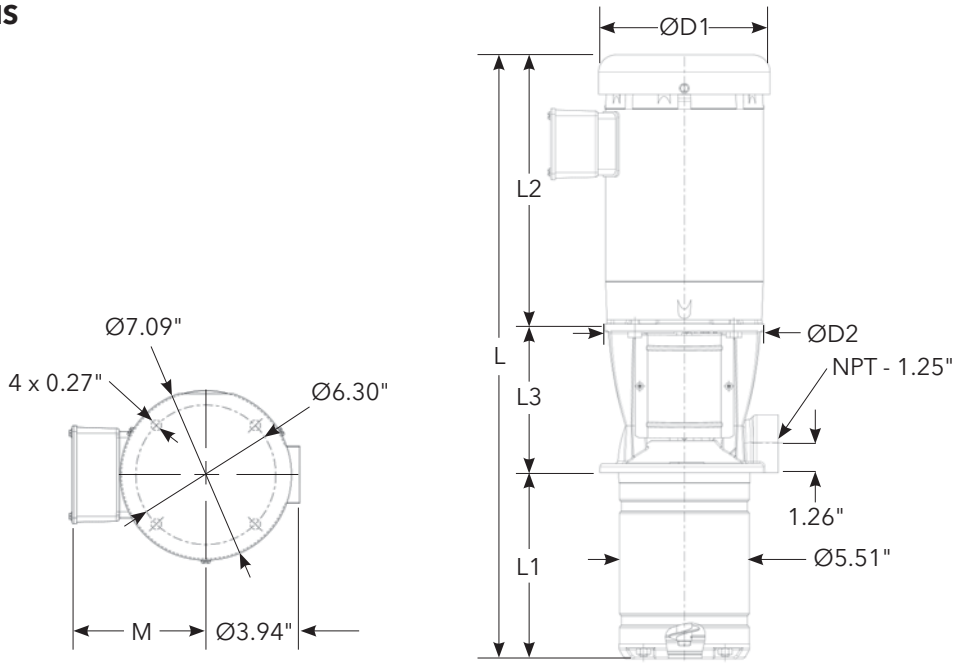
60 Hz



MINIMUM FLOW RATE: 1 GPM [.24 m³/hr]

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

3 e-SVI DIMENSIONS



3 e-SVI SERIES – 60 Hz, 1750 RPM ODP/TEFC Enclosures

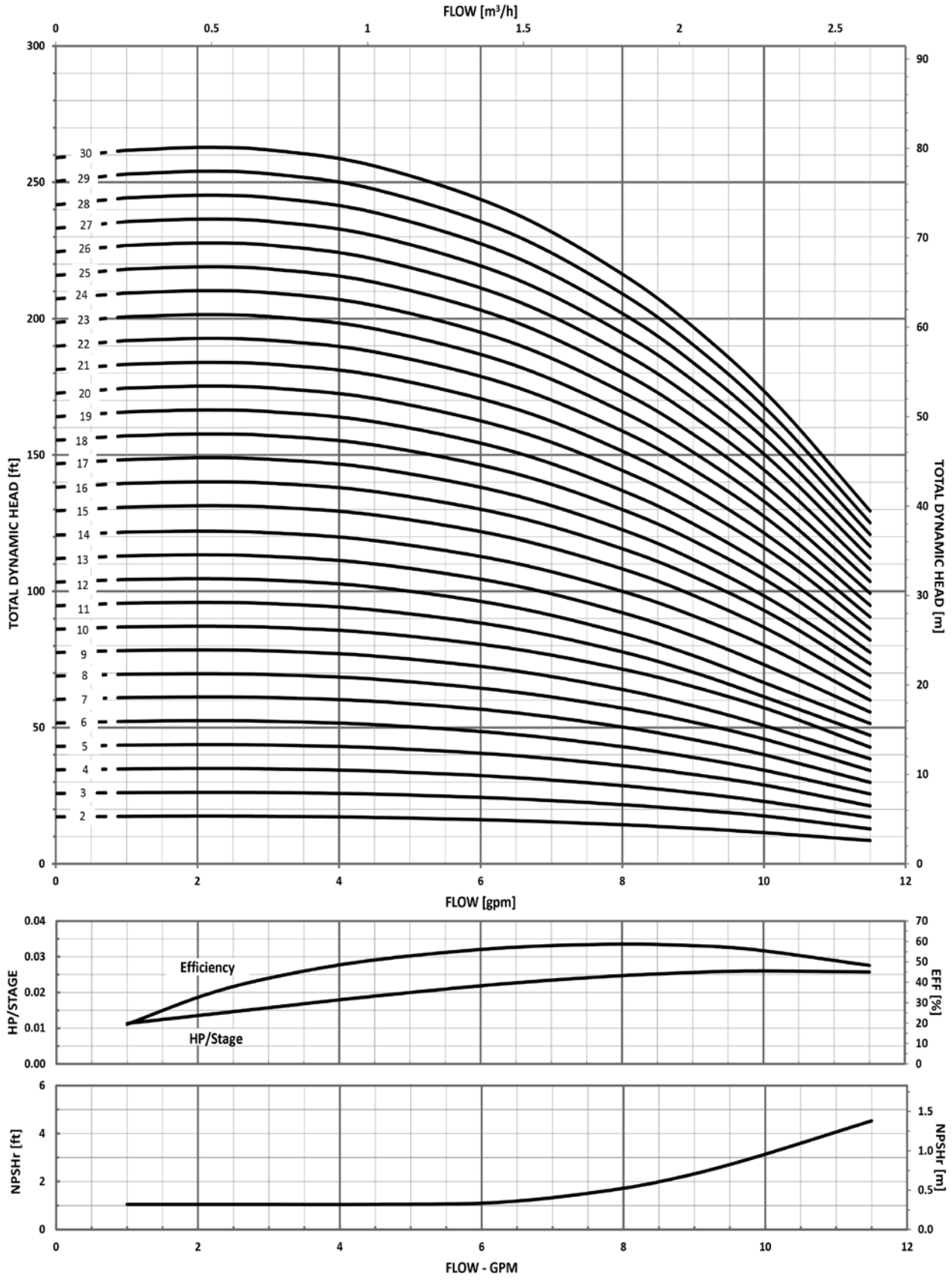
PUMP CONFIGURATION	MOTOR					DIMENSIONS (IN)															WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3	L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
3SVI02-02	0.5	56C	56C	56C	56C	4.69	10.67	9.91	10.66	10.17	6.44	21.79	21.03	21.78	21.29	6.19	6.19	7.19	7.19	6.69	19	32	27	37	32	51	46	56	51
3SVI03-03	0.5	56C	56C	56C	56C	5.47	10.67	9.91	10.66	10.17	6.44	22.58	21.82	22.57	22.08	6.19	6.19	7.19	7.19	6.69	20	32	27	37	32	52	47	57	52
3SVI04-04	0.5	56C	56C	56C	56C	6.26	10.67	9.91	10.66	10.17	6.44	23.37	22.61	23.36	22.87	6.19	6.19	7.19	7.19	6.69	21	32	27	37	32	53	48	58	53
3SVI05-05	0.5	56C	56C	56C	56C	7.05	10.67	9.91	10.66	10.17	6.44	24.15	23.39	24.14	23.65	6.19	6.19	7.19	7.19	6.69	22	32	27	37	32	54	49	59	54
3SVI06-06	0.5	56C	56C	56C	56C	7.83	10.67	9.91	10.66	10.17	6.44	24.94	24.18	24.93	24.44	6.19	6.19	7.19	7.19	6.69	23	32	27	37	32	55	50	60	55
3SVI07-07	0.5	56C	56C	56C	56C	8.62	10.67	9.91	10.66	10.17	6.44	25.73	24.97	25.72	25.23	6.19	6.19	7.19	7.19	6.69	23	32	27	37	32	55	50	60	55
3SVI08-08	0.5	56C	56C	56C	56C	9.41	10.67	9.91	10.66	10.17	6.44	26.52	25.76	26.51	26.02	6.19	6.19	7.19	7.19	6.69	24	32	27	37	32	56	51	61	56
3SVI09-09	0.5	56C	56C	56C	56C	10.20	10.67	9.91	10.66	10.17	6.44	27.30	26.54	27.29	26.80	6.19	6.19	7.19	7.19	6.69	25	32	27	37	32	57	52	62	57
3SVI10-10	0.5	56C	56C	56C	56C	10.98	10.67	9.91	10.66	10.17	6.44	28.09	27.33	28.08	27.59	6.19	6.19	7.19	7.19	6.69	26	32	27	37	32	58	53	63	58
3SVI11-11	0.5	56C	56C	56C	56C	11.77	10.67	9.91	10.66	10.17	6.44	28.88	28.12	28.87	28.38	6.19	6.19	7.19	7.19	6.69	27	32	27	37	32	59	54	64	59
3SVI12-12	0.5	56C	56C	56C	56C	12.56	10.67	9.91	10.66	10.17	6.44	29.67	28.91	29.66	29.17	6.19	6.19	7.19	7.19	6.69	28	32	27	37	32	60	55	65	60
3SVI13-13	0.5	56C	56C	56C	56C	13.35	10.67	9.91	10.66	10.17	6.44	30.45	29.69	30.44	29.95	6.19	6.19	7.19	7.19	6.69	28	32	27	37	32	60	55	65	60
3SVI14-14	0.5	56C	56C	56C	56C	14.13	10.67	9.91	10.66	10.17	6.44	31.24	30.48	31.23	30.74	6.19	6.19	7.19	7.19	6.69	29	32	27	37	32	61	56	66	61
3SVI15-15	0.5	56C	56C	56C	56C	14.92	10.67	9.91	10.66	10.17	6.44	32.03	31.27	32.02	31.53	6.19	6.19	7.19	7.19	6.69	30	32	27	37	32	62	57	67	62
3SVI16-16	0.5	56C	56C	56C	56C	15.71	10.67	9.91	10.66	10.17	6.44	32.82	32.06	32.81	32.32	6.19	6.19	7.19	7.19	6.69	31	32	27	37	32	63	58	68	63
3SVI17-17	0.5	56C	56C	56C	56C	16.50	10.67	9.91	10.66	10.17	6.44	33.60	32.84	33.59	33.10	6.19	6.19	7.19	7.19	6.69	32	32	27	37	32	64	59	69	64
3SVI18-18	0.5	56C	56C	56C	56C	17.28	10.67	9.91	10.66	10.17	6.44	34.39	33.63	34.38	33.89	6.19	6.19	7.19	7.19	6.69	32	32	27	37	32	64	59	69	64
3SVI19-19	0.5	56C	56C	56C	56C	18.07	10.67	9.91	10.66	10.17	6.44	35.18	34.42	35.17	34.68	6.19	6.19	7.19	7.19	6.69	33	32	27	37	32	65	60	70	65
3SVI20-20	0.5	56C	56C	56C	56C	18.86	10.67	9.91	10.66	10.17	6.44	35.97	35.21	35.96	35.47	6.19	6.19	7.19	7.19	6.69	34	32	27	37	32	66	61	71	66
3SVI21-21	0.5	56C	56C	56C	56C	19.65	10.67	9.91	10.66	10.17	6.44	36.75	35.99	36.74	36.25	6.19	6.19	7.19	7.19	6.69	35	32	27	37	32	67	62	72	67
3SVI22-22	0.5	56C	56C	56C	56C	20.43	10.67	9.91	10.66	10.17	6.44	37.54	36.78	37.53	37.04	6.19	6.19	7.19	7.19	6.69	36	32	27	37	32	68	63	73	68
3SVI23-23	0.5	56C	56C	56C	56C	21.22	10.67	9.91	10.66	10.17	6.44	38.33	37.57	38.32	37.83	6.19	6.19	7.19	7.19	6.69	37	32	27	37	32	69	64	74	69
3SVI24-24	0.5	56C	56C	56C	56C	22.01	10.67	9.91	10.66	10.17	6.44	39.11	38.35	39.10	38.61	6.19	6.19	7.19	7.19	6.69	37	32	27	37	32	69	64	74	69
3SVI25-25	0.5	56C	56C	56C	56C	22.80	10.67	9.91	10.66	10.17	6.44	39.90	39.14	39.89	39.40	6.19	6.19	7.19	7.19	6.69	38	32	27	37	32	70	65	75	70
3SVI26-26	0.75	56C	56C	56C	56C	23.58	11.16	10.41	10.18	10.17	6.44	41.18	40.43	40.20	40.19	7.19	6.19	7.19	7.19	6.69	39	44	33	35	35	83	72	74	74
3SVI27-27	0.75	56C	56C	56C	56C	24.37	11.16	10.41	10.18	10.17	6.44	41.97	41.22	40.99	40.98	7.19	6.19	7.19	7.19	6.69	40	44	33	35	35	84	73	75	75
3SVI28-28	0.75	56C	56C	56C	56C	25.16	11.16	10.41	10.18	10.17	6.44	42.75	42.00	41.77	41.76	7.19	6.19	7.19	7.19	6.69	41	44	33	35	35	85	74	76	76
3SVI29-29	0.75	56C	56C	56C	56C	25.94	11.16	10.41	10.18	10.17	6.44	43.54	42.79	42.56	42.55	7.19	6.19	7.19	7.19	6.69	41	44	33	35	35	85	74	76	76
3SVI30-30	0.75	56C	56C	56C	56C	26.73	11.16	10.41	10.18	10.17	6.44	44.33	43.58	43.35	43.34	7.19	6.19	7.19	7.19	6.69	42	44	33	35	35	86	75	77	77

All listed dimensions are with Inducer, 3SVI23-23 has 23 Stages with Impeller and 1 Inducer chamber.

PERFORMANCE CURVE

3 e-SVI 1750 RPM

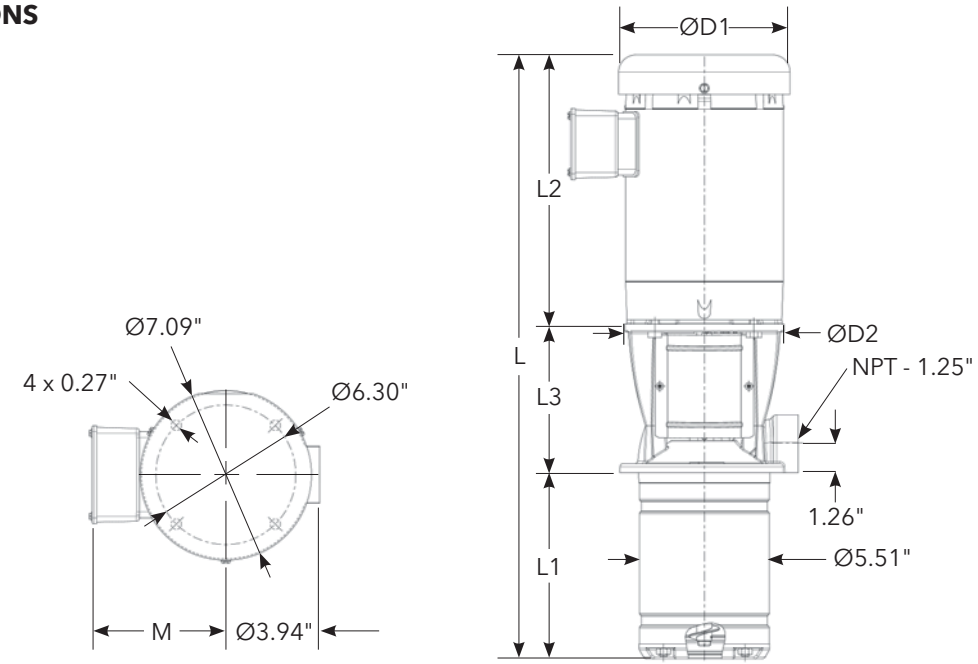
60 Hz



MINIMUM FLOW RATE: 1 GPM [.24 m³/hr]

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

5 e-SVI DIMENSIONS



5 e-SVI SERIES – 60 Hz, 1750 RPM ODP/TEFC Enclosures

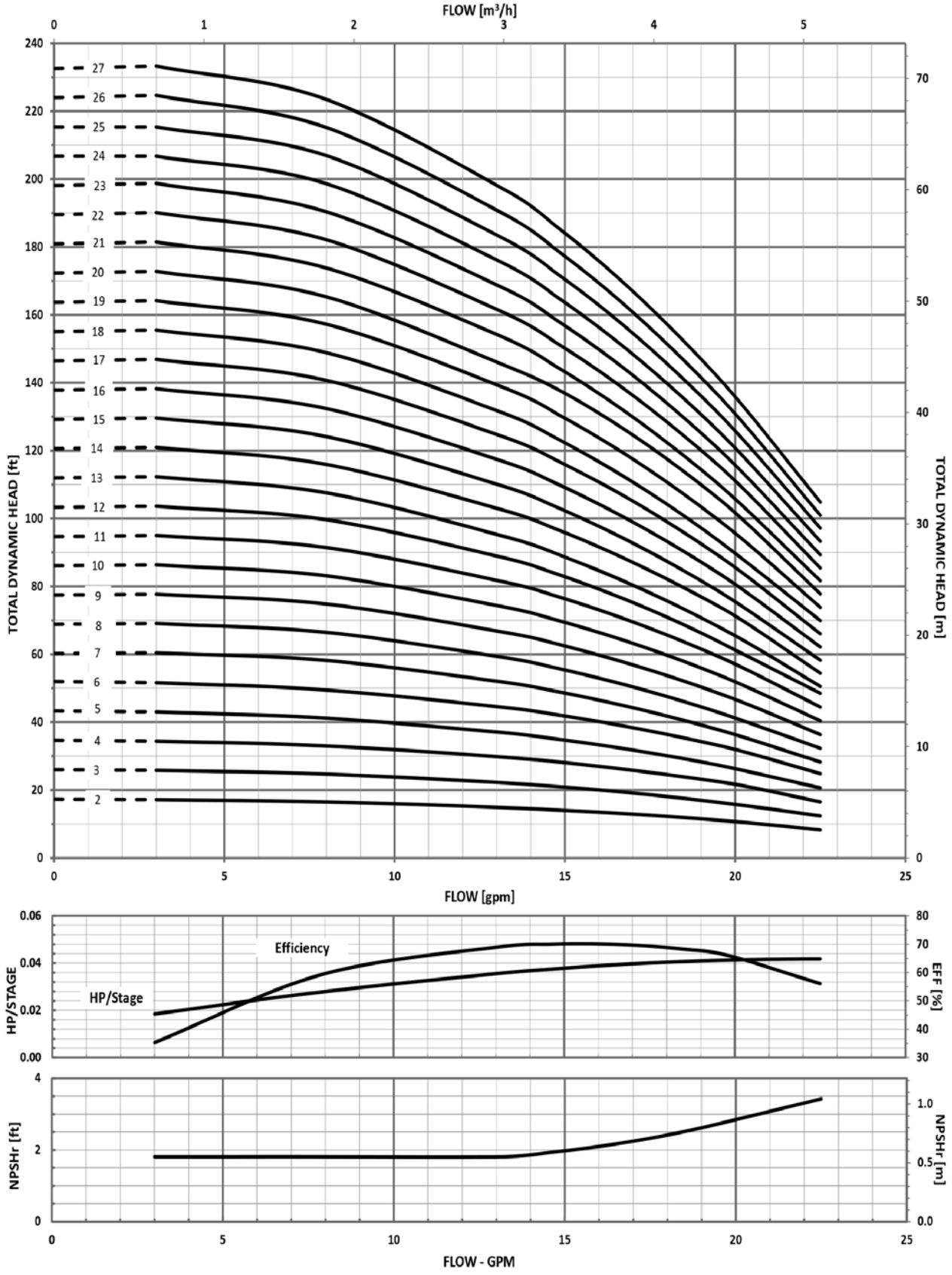
PUMP CONFIGURATION	MOTOR					DIMENSIONS (IN)															WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3	L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
5SVI02-02	0.5	56C	56C	56C	56C	5.28	10.67	9.91	10.66	10.17	6.44	22.38	21.62	22.37	21.88	6.19	6.19	7.19	7.19	6.69	20	32	27	37	32	52	47	57	52
5SVI03-03	0.5	56C	56C	56C	56C	6.26	10.67	9.91	10.66	10.17	6.44	23.37	22.61	23.36	22.87	6.19	6.19	7.19	7.19	6.69	21	32	27	37	32	53	48	58	53
5SVI04-04	0.5	56C	56C	56C	56C	7.24	10.67	9.91	10.66	10.17	6.44	24.35	23.59	24.34	23.85	6.19	6.19	7.19	7.19	6.69	22	32	27	37	32	54	49	59	54
5SVI05-05	0.5	56C	56C	56C	56C	8.23	10.67	9.91	10.66	10.17	6.44	25.34	24.58	25.33	24.84	6.19	6.19	7.19	7.19	6.69	23	32	27	37	32	55	50	60	55
5SVI06-06	0.5	56C	56C	56C	56C	9.21	10.67	9.91	10.66	10.17	6.44	26.32	25.56	26.31	25.82	6.19	6.19	7.19	7.19	6.69	24	32	27	37	32	56	51	61	56
5SVI07-07	0.5	56C	56C	56C	56C	10.20	10.67	9.91	10.66	10.17	6.44	27.30	26.54	27.29	26.80	6.19	6.19	7.19	7.19	6.69	25	32	27	37	32	57	52	62	57
5SVI08-08	0.5	56C	56C	56C	56C	11.18	10.67	9.91	10.66	10.17	6.44	28.29	27.53	28.28	27.79	6.19	6.19	7.19	7.19	6.69	26	32	27	37	32	58	53	63	58
5SVI09-09	0.5	56C	56C	56C	56C	12.17	10.67	9.91	10.66	10.17	6.44	29.27	28.51	29.26	28.77	6.19	6.19	7.19	7.19	6.69	27	32	27	37	32	59	54	64	59
5SVI10-10	0.5	56C	56C	56C	56C	13.15	10.67	9.91	10.66	10.17	6.44	30.26	29.50	30.25	29.76	6.19	6.19	7.19	7.19	6.69	28	32	27	37	32	60	55	65	60
5SVI11-11	0.5	56C	56C	56C	56C	14.13	10.67	9.91	10.66	10.17	6.44	31.24	30.48	31.23	30.74	6.19	6.19	7.19	7.19	6.69	29	32	27	37	32	61	56	66	61
5SVI12-12	0.5	56C	56C	56C	56C	15.12	10.67	9.91	10.66	10.17	6.44	32.23	31.47	32.22	31.73	6.19	6.19	7.19	7.19	6.69	30	32	27	37	32	62	57	67	62
5SVI13-13	0.5	56C	56C	56C	56C	16.10	10.67	9.91	10.66	10.17	6.44	33.21	32.45	33.20	32.71	6.19	6.19	7.19	7.19	6.69	31	32	27	37	32	63	58	68	63
5SVI14-14	0.5	56C	56C	56C	56C	17.09	10.67	9.91	10.66	10.17	6.44	34.19	33.43	34.18	33.69	6.19	6.19	7.19	7.19	6.69	32	32	27	37	32	64	59	69	64
5SVI15-15	0.5	56C	56C	56C	56C	18.07	10.67	9.91	10.66	10.17	6.44	35.18	34.42	35.17	34.68	6.19	6.19	7.19	7.19	6.69	33	32	27	37	32	65	60	70	65
5SVI16-16	0.5	56C	56C	56C	56C	19.06	10.67	9.91	10.66	10.17	6.44	36.16	35.40	36.15	35.66	6.19	6.19	7.19	7.19	6.69	34	32	27	37	32	66	61	71	66
5SVI17-17	0.75	56C	56C	56C	56C	20.04	11.16	10.41	10.18	10.17	6.44	37.64	36.89	36.66	36.65	7.19	6.19	7.19	7.19	6.69	35	44	33	35	35	79	68	70	70
5SVI18-18	0.75	56C	56C	56C	56C	21.02	11.16	10.41	10.18	10.17	6.44	38.62	37.87	37.64	37.63	7.19	6.19	7.19	7.19	6.69	36	44	33	35	35	80	69	71	71
5SVI19-19	0.75	56C	56C	56C	56C	22.01	11.16	10.41	10.18	10.17	6.44	39.60	38.85	38.62	38.61	7.19	6.19	7.19	7.19	6.69	37	44	33	35	35	81	70	72	72
5SVI20-20	0.75	56C	56C	56C	56C	22.99	11.16	10.41	10.18	10.17	6.44	40.59	39.84	39.61	39.60	7.19	6.19	7.19	7.19	6.69	37	44	33	35	35	81	70	72	72
5SVI21-21	0.75	56C	56C	56C	56C	23.98	11.16	10.41	10.18	10.17	6.44	41.57	40.82	40.59	40.58	7.19	6.19	7.19	7.19	6.69	38	44	33	35	35	82	71	73	73
5SVI22-22	0.75	56C	56C	56C	56C	24.96	11.16	10.41	10.18	10.17	6.44	42.56	41.81	41.58	41.57	7.19	6.19	7.19	7.19	6.69	39	44	33	35	35	83	72	74	74
5SVI23-23	0.75	56C	56C	56C	56C	25.94	11.16	10.41	10.18	10.17	6.44	43.54	42.79	42.56	42.55	7.19	6.19	7.19	7.19	6.69	40	44	33	35	35	84	73	75	75
5SVI24-24	0.75	56C	56C	56C	56C	26.93	11.16	10.41	10.18	10.17	6.44	44.53	43.78	43.55	43.54	7.19	6.19	7.19	7.19	6.69	41	44	33	35	35	85	74	76	76
5SVI25-25	1	56C	56C	56C	56C	27.91	10.18	11.19	10.18	10.17	6.44	44.53	45.54	44.53	44.52	7.19	7.19	7.19	7.19	6.69	42	35	40	37	36	77	82	79	78
5SVI26-26	1	56C	56C	56C	56C	28.90	10.18	11.19	10.18	10.17	6.44	45.51	46.52	45.51	45.50	7.19	7.19	7.19	7.19	6.69	43	35	40	37	36	78	83	80	79
5SVI27-27	1	56C	56C	56C	56C	29.88	10.18	11.19	10.18	10.17	6.44	46.50	47.51	46.50	46.49	7.19	7.19	7.19	7.19	6.69	44	35	40	37	36	79	84	81	80

All listed dimensions are with Inducer, 5SVI24-24 has 24 Stages with Impeller and 1 Inducer chamber.

PERFORMANCE CURVE

5 e-SVI 1750 RPM

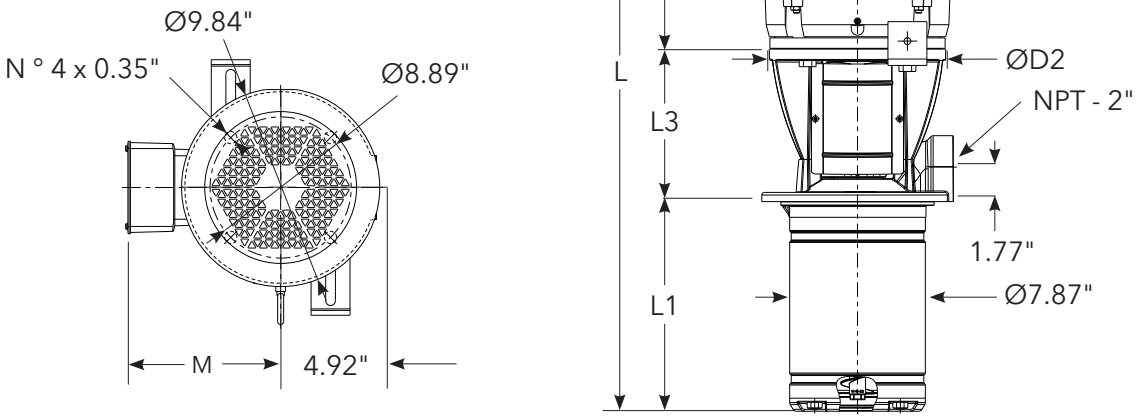
60 Hz



MINIMUM FLOW RATE: 3 GPM [.7 m³/hr]

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

10 e-SVI DIMENSIONS



10 e-SVI SERIES – 60 Hz, 1750 RPM ODP/TEFC Enclosures

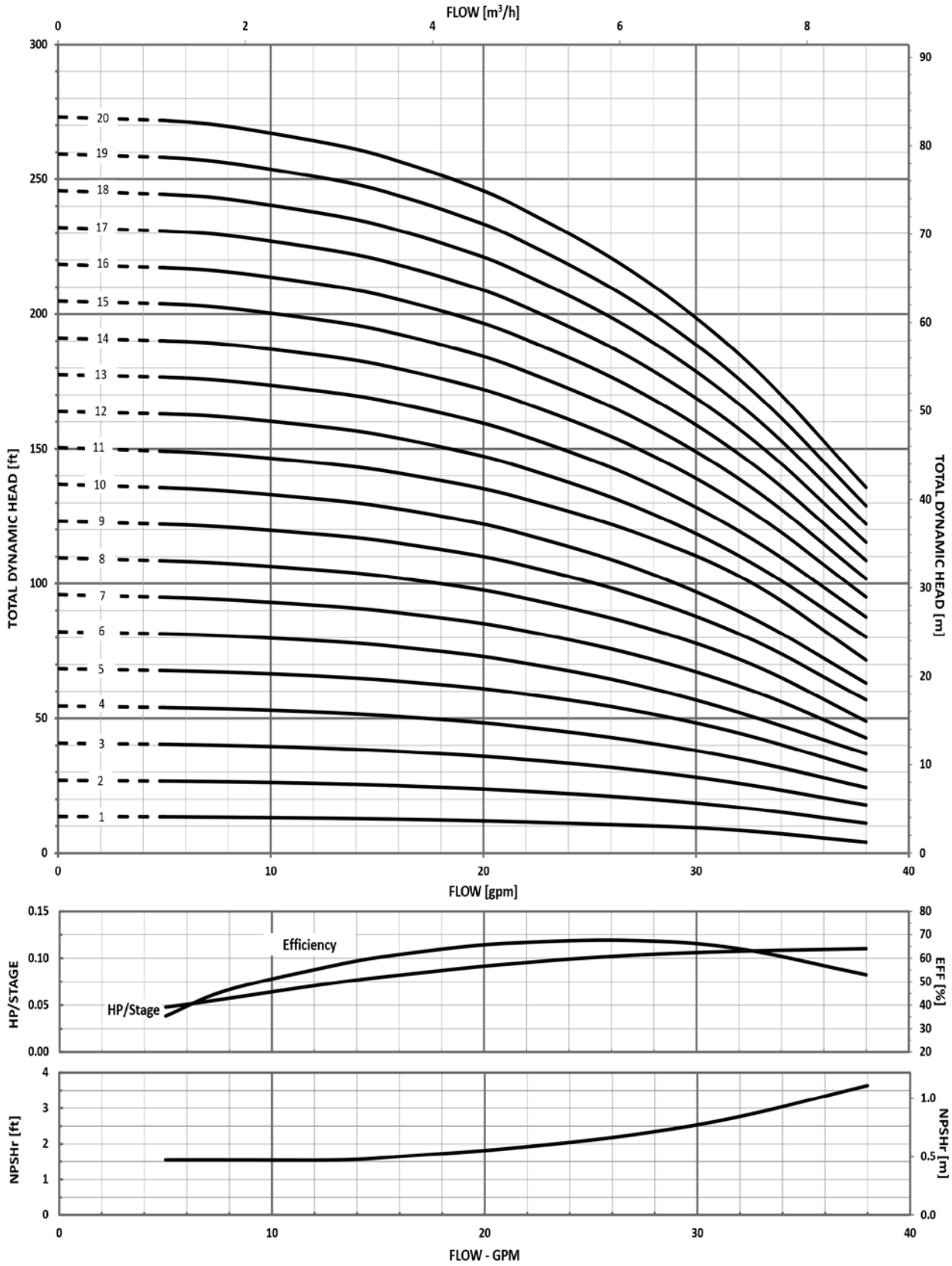
PUMP CONFIGU-RATION	MOTOR					DIMENSIONS (IN)																		WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3				L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
10SVI02-01	0.5	56C	56C	56C	56C	6.99	10.67	9.91	10.66	10.17	7.44	7.44	7.44	7.44	25.10	24.34	25.09	24.60	6.19	6.19	7.19	7.19	7.40	33	32	27	37	32	65	60	70	65
10SVI02-02	0.5	56C	56C	56C	56C	6.99	10.67	9.91	10.66	10.17	7.44	7.44	7.44	7.44	25.10	24.34	25.09	24.60	6.19	6.19	7.19	7.19	7.40	33	32	27	37	32	65	60	70	65
10SVI03-03	0.5	56C	56C	56C	56C	8.25	10.67	9.91	10.66	10.17	7.44	7.44	7.44	7.44	26.36	25.60	26.35	25.86	6.19	6.19	7.19	7.19	7.40	35	32	27	37	32	67	62	72	67
10SVI04-04	0.5	56C	56C	56C	56C	9.51	10.67	9.91	10.66	10.17	7.44	7.44	7.44	7.44	27.62	26.86	27.61	27.12	6.19	6.19	7.19	7.19	7.40	37	32	27	37	32	69	64	74	69
10SVI05-05	0.5	56C	56C	56C	56C	10.77	10.67	9.91	10.66	10.17	7.44	7.44	7.44	7.44	28.88	28.12	28.87	28.38	6.19	6.19	7.19	7.19	7.40	39	32	27	37	32	71	66	76	71
10SVI06-06	0.75	56C	56C	56C	56C	12.03	11.16	10.41	10.18	10.17	7.44	7.44	7.44	7.44	30.63	29.88	29.65	29.64	7.19	6.19	7.19	7.19	7.40	41	44	33	35	35	85	74	76	76
10SVI07-07	0.75	56C	56C	56C	56C	13.29	11.16	10.41	10.18	10.17	7.44	7.44	7.44	7.44	31.89	31.14	30.91	30.90	7.19	6.19	7.19	7.19	7.40	43	44	33	35	35	87	76	78	78
10SVI08-08	0.75	56C	56C	56C	56C	14.55	11.16	10.41	10.18	10.17	7.44	7.44	7.44	7.44	33.15	32.40	32.17	32.16	7.19	6.19	7.19	7.19	7.40	45	44	33	35	35	89	78	80	80
10SVI09-09	1	56C	56C	56C	56C	15.81	10.18	11.19	10.18	10.17	7.44	7.44	7.44	7.44	33.43	34.44	33.43	33.42	7.19	7.19	7.19	7.19	7.40	47	35	40	37	36	82	87	84	83
10SVI10-10	1	56C	56C	56C	56C	17.07	10.18	11.19	10.18	10.17	7.44	7.44	7.44	7.44	34.69	35.70	34.69	34.68	7.19	7.19	7.19	7.19	7.40	49	35	40	37	36	84	89	86	85
10SVI11-11	1.5	56C	56C	56C	56C	18.33	13.42	12.06	12.04	12.04	7.44	7.44	7.44	7.44	39.19	37.83	37.81	37.81	7.19	7.19	7.21	7.19	7.40	50	59	48	49	50	109	98	99	100
10SVI12-12	1.5	56C	56C	56C	56C	19.59	13.42	12.06	12.04	12.04	7.44	7.44	7.44	7.44	40.45	39.09	39.07	39.07	7.19	7.19	7.21	7.19	7.40	52	59	48	49	50	111	100	101	102
10SVI13-13	1.5	56C	56C	56C	56C	20.85	13.42	12.06	12.04	12.04	7.44	7.44	7.44	7.44	41.71	40.35	40.33	40.33	7.19	7.19	7.21	7.19	7.40	54	59	48	49	50	113	102	103	104
10SVI14-14	1.5	56C	56C	56C	56C	22.11	13.42	12.06	12.04	12.04	7.44	7.44	7.44	7.44	42.97	41.61	41.59	41.59	7.19	7.19	7.21	7.19	7.40	56	59	48	49	50	115	104	105	106
10SVI15-15	2	56C	56C	56C	56C	23.37	13.41	12.06	12.06	11.17	7.44	7.44	7.44	7.44	44.22	42.87	42.87	41.98	7.19	7.19	7.21	7.19	7.40	58	66	66	48	46	124	124	106	104
10SVI16-16	2	56C	56C	56C	56C	24.63	13.41	12.06	12.06	11.17	7.44	7.44	7.44	7.44	45.48	44.13	44.13	43.24	7.19	7.19	7.21	7.19	7.40	60	66	66	48	46	126	126	108	106
10SVI17-17	2	56C	56C	56C	56C	25.89	13.41	12.06	12.06	11.17	7.44	7.44	7.44	7.44	46.74	45.39	45.39	44.50	7.19	7.19	7.21	7.19	7.40	62	66	66	48	46	128	128	110	108
10SVI18-18	2	56C	56C	56C	56C	27.15	13.41	12.06	12.06	11.17	7.44	7.44	7.44	7.44	48.00	46.65	46.65	45.76	7.19	7.19	7.21	7.19	7.40	64	66	66	48	46	130	130	112	110
10SVI19-19	2	56C	56C	56C	56C	28.41	13.41	12.06	12.06	11.17	7.44	7.44	7.44	7.44	49.26	47.91	47.91	47.02	7.19	7.19	7.21	7.19	7.40	66	66	66	48	46	132	132	114	112
10SVI20-20	3	184TC	184TC	56C	56C	29.67	13.68	15.18	13.55	13.55	7.64	7.64	7.44	7.44	50.98	52.48	50.66	50.66	8.60	8.60	8.50	8.60	9.06	72	78	95	74	73	150	167	146	145

All listed dimensions are with Inducer, 10SVI15-15 has 15 Stages with Impeller and 1 Inducer chamber.

PERFORMANCE CURVE

10 e-SVI 1750 RPM

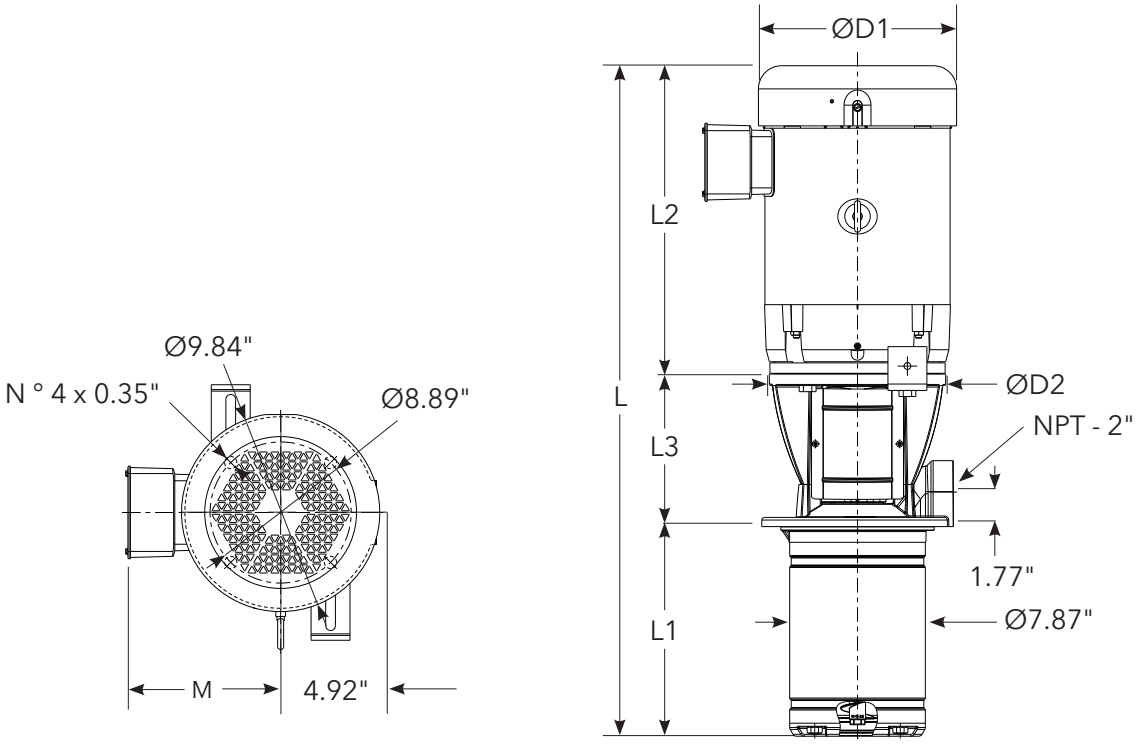
60 Hz



MINIMUM FLOW RATE: 5 GPM [1.4 m³/hr]

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

15 e-SVI DIMENSIONS

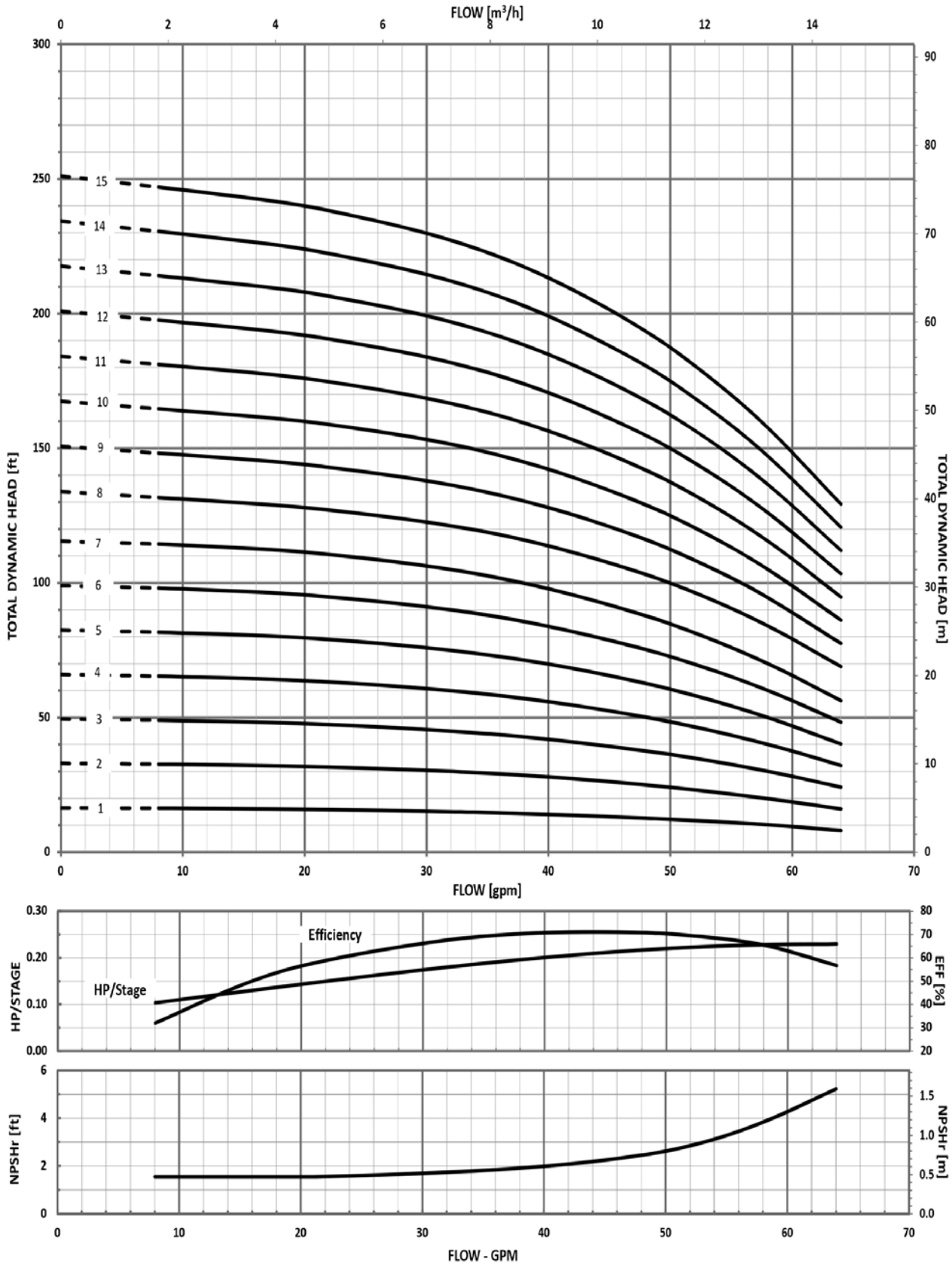


15 e-SVI SERIES – 60 Hz, 1750 RPM ODP/TEFC Enclosures

PUMP CONFIGU-RATION	MOTOR					DIMENSIONS (IN)																		WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3				L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
15SVI02-01	0.5	56C	56C	56C	56C	8.88	10.67	9.91	10.66	10.17	7.44	7.44	7.44	7.44	26.99	26.23	26.98	26.49	6.19	6.19	7.19	7.19	7.40	36	32	27	37	32	68	63	73	68
15SVI02-02	0.5	56C	56C	56C	56C	8.88	10.67	9.91	10.66	10.17	7.44	7.44	7.44	7.44	26.99	26.23	26.98	26.49	6.19	6.19	7.19	7.19	7.40	36	32	27	37	32	68	63	73	68
15SVI03-03	0.75	56C	56C	56C	56C	10.77	11.16	10.41	10.18	10.17	7.44	7.44	7.44	7.44	29.37	28.62	28.39	28.38	7.19	6.19	7.19	7.19	7.40	39	44	33	35	35	83	72	74	74
15SVI04-04	1	56C	56C	56C	56C	12.66	10.18	11.19	10.18	10.17	7.44	7.44	7.44	7.44	30.28	31.29	30.28	30.27	7.19	7.19	7.19	7.19	7.40	42	35	40	37	36	77	82	79	78
15SVI05-05	1	56C	56C	56C	56C	14.55	10.18	11.19	10.18	10.17	7.44	7.44	7.44	7.44	32.17	33.18	32.17	32.16	7.19	7.19	7.19	7.19	7.40	45	35	40	37	36	80	85	82	81
15SVI06-06	1.5	56C	56C	56C	56C	16.44	13.42	12.06	12.04	12.04	7.44	7.44	7.44	7.44	37.30	35.94	35.92	35.92	7.19	7.19	7.21	7.19	7.40	48	59	48	49	50	107	96	97	98
15SVI07-07	1.5	56C	56C	56C	56C	18.33	13.42	12.06	12.04	12.04	7.44	7.44	7.44	7.44	39.19	37.83	37.81	37.81	7.19	7.19	7.21	7.19	7.40	51	59	48	49	50	110	99	100	101
15SVI08-08	2	56C	56C	56C	56C	20.22	13.41	12.06	12.06	11.17	7.44	7.44	7.44	7.44	41.07	39.72	39.72	38.83	7.19	7.19	7.21	7.19	7.40	53	66	66	48	46	119	119	101	99
15SVI09-09	2	56C	56C	56C	56C	22.11	13.41	12.06	12.06	11.17	7.44	7.44	7.44	7.44	42.96	41.61	41.61	40.72	7.19	7.19	7.21	7.19	7.40	56	66	66	48	46	122	122	104	102
15SVI10-10	3	184TC	184TC	56C	56C	24.00	13.68	15.18	13.55	13.55	7.64	7.64	7.44	7.44	45.31	46.81	44.99	44.99	8.60	8.60	8.50	8.60	9.06	63	78	95	74	73	141	158	137	136
15SVI11-11	3	184TC	184TC	56C	56C	25.89	13.68	15.18	13.55	13.55	7.64	7.64	7.44	7.44	47.20	48.70	46.88	46.88	8.60	8.60	8.50	8.60	9.06	65	78	95	74	73	143	160	139	138
15SVI12-12	3	184TC	184TC	56C	56C	27.78	13.68	15.18	13.55	13.55	7.64	7.64	7.44	7.44	49.09	50.59	48.77	48.77	8.60	8.60	8.50	8.60	9.06	68	78	95	74	73	146	163	142	141
15SVI13-13	3	184TC	184TC	56C	56C	29.67	13.68	15.18	13.55	13.55	7.64	7.64	7.44	7.44	50.98	52.48	50.66	50.66	8.60	8.60	8.50	8.60	9.06	71	78	95	74	73	149	166	145	144
15SVI14-14	3	184TC	184TC	56C	56C	31.56	13.68	15.18	13.55	13.55	7.64	7.64	7.44	7.44	52.87	54.37	52.55	52.55	8.60	8.60	8.50	8.60	9.06	74	78	95	74	73	152	169	148	147
15SVI15-15	5	184TC	184TC	184TC	184TC	33.44	13.68	15.18	16.14	15.18	7.64	7.64	7.64	7.64	54.76	56.26	57.22	56.26	8.6	8.6	8.60	8.60	9.06	77	81	97	96	88	158	174	173	165

All listed dimensions are with Inducer, 15SVI11-11 has 11 Stages with Impeller and 1 Inducer chamber.

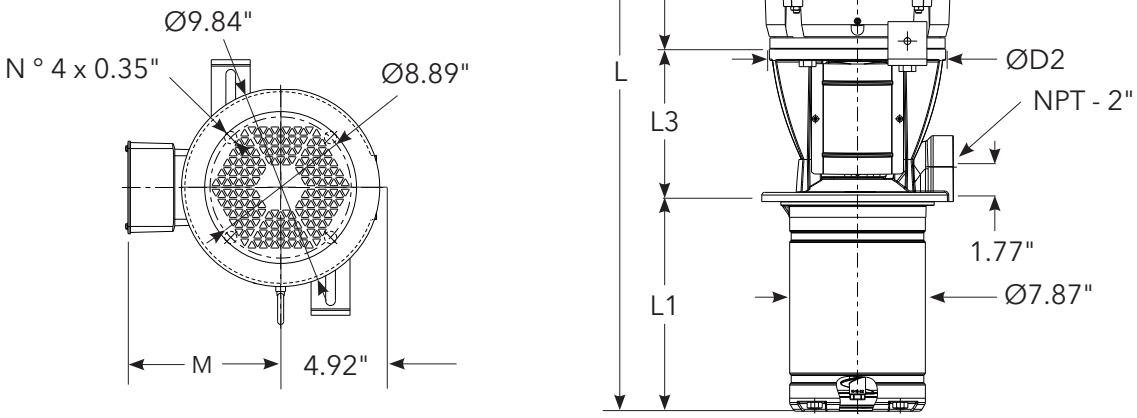
PERFORMANCE CURVE **15 e-SVI 1750 RPM** **60 Hz**



MINIMUM FLOW RATE: 8 GPM [2 m³/hr]

PERFORMANCE & DIMENSIONS/WEIGHTS/MOTOR CHARACTERISTICS

22 e-SVI DIMENSIONS

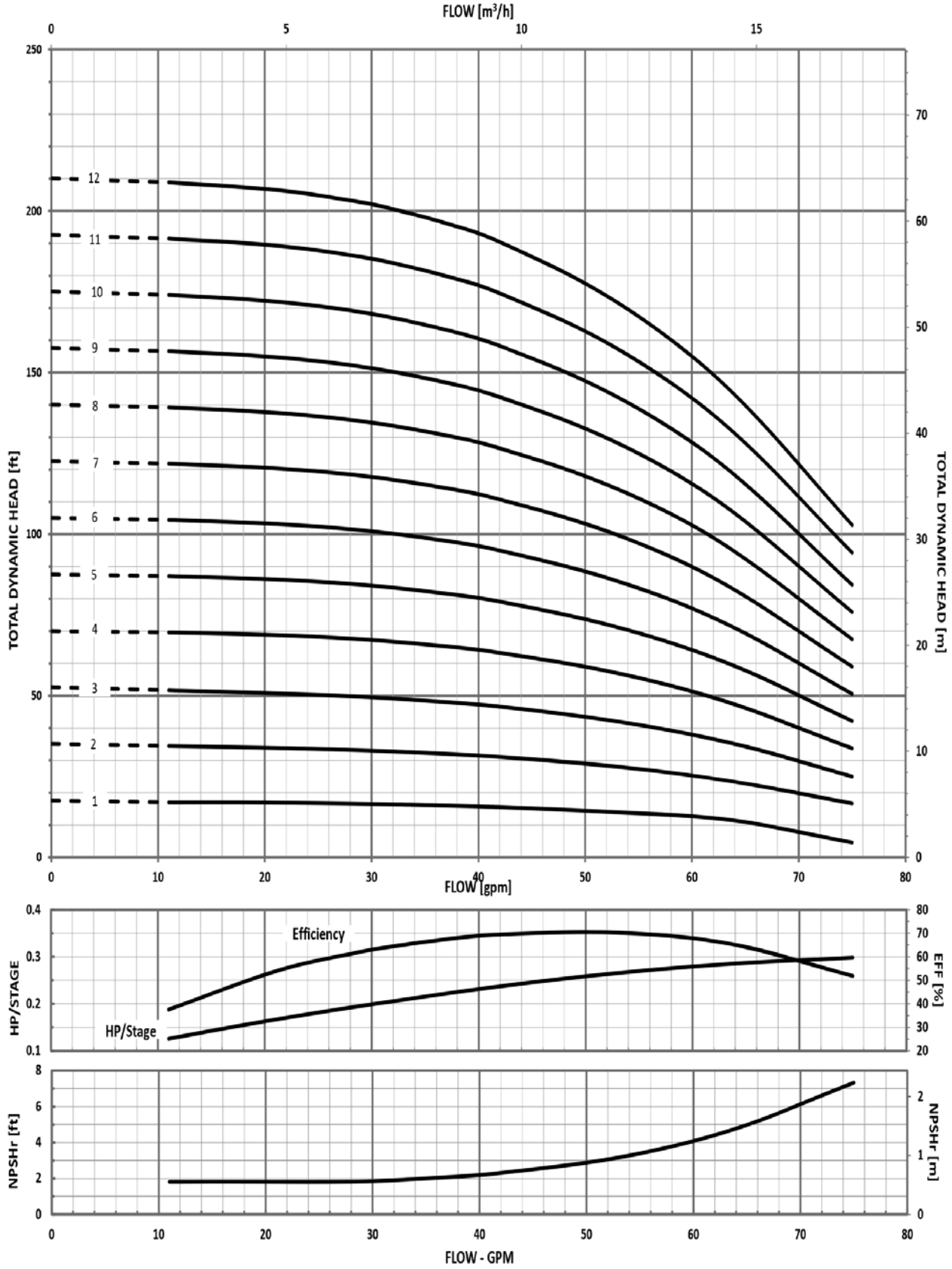


22 e-SVI SERIES – 60 Hz, 1750 RPM ODP/TEFC Enclosures

PUMP CONFIGU-RATION	MOTOR					DIMENSIONS (IN)																	WEIGHT (LBS.)								
	HP	NEMA FRAME				L1	L2				L3				L				D1 (MAX.)				D2 (MAX.)	PUMP ONLY	MOTOR				PUMP/MOTOR			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
22SVI02-01	0.5	56C	56C	56C	56C	8.88	10.67	9.91	10.66	10.17	7.44	7.44	7.44	7.44	26.99	26.23	26.98	26.49	6.19	6.19	7.19	7.19	7.40	36	32	27	37	32	68	63	73	68
22SVI02-02	0.5	56C	56C	56C	56C	8.88	10.67	9.91	10.66	10.17	7.44	7.44	7.44	7.44	26.99	26.23	26.98	26.49	6.19	6.19	7.19	7.19	7.40	36	32	27	37	32	68	63	73	68
22SVI03-03	0.75	56C	56C	56C	56C	10.77	11.16	10.41	10.18	10.17	7.44	7.44	7.44	7.44	29.37	28.62	28.39	28.38	7.19	6.19	7.19	7.19	7.40	39	44	33	35	35	83	72	74	74
22SVI04-04	1.5	56C	56C	56C	56C	12.66	13.42	12.06	12.04	12.04	7.44	7.44	7.44	7.44	33.52	32.16	32.14	32.14	7.19	7.19	7.21	7.19	7.40	42	59	48	49	50	101	90	91	92
22SVI05-05	1.5	56C	56C	56C	56C	14.55	13.42	12.06	12.04	12.04	7.44	7.44	7.44	7.44	35.41	34.05	34.03	34.03	7.19	7.19	7.21	7.19	7.40	45	59	48	49	50	104	93	94	95
22SVI06-06	2	56C	56C	56C	56C	16.44	13.41	12.06	12.06	11.17	7.44	7.44	7.44	7.44	37.29	35.94	35.94	35.05	7.19	7.19	7.21	7.19	7.40	48	66	66	48	46	114	114	96	94
22SVI07-07	2	56C	56C	56C	56C	18.33	13.41	12.06	12.06	11.17	7.44	7.44	7.44	7.44	39.18	37.83	37.83	36.94	7.19	7.19	7.21	7.19	7.40	51	66	66	48	46	117	117	99	97
22SVI08-08	3	184TC	184TC	56C	56C	20.22	13.68	15.18	13.55	13.55	7.64	7.64	7.44	7.44	41.53	43.03	41.21	41.21	8.60	8.60	8.50	8.60	9.06	57	78	95	74	73	135	152	131	130
22SVI09-09	3	184TC	184TC	56C	56C	22.11	13.68	15.18	13.55	13.55	7.64	7.64	7.44	7.44	43.42	44.92	43.10	43.10	8.60	8.60	8.50	8.60	9.06	60	78	95	74	73	138	155	134	133
22SVI10-10	3	184TC	184TC	56C	56C	24.00	13.68	15.18	13.55	13.55	7.64	7.64	7.44	7.44	45.31	46.81	44.99	44.99	8.60	8.60	8.50	8.60	9.06	63	78	95	74	73	141	158	137	136
22SVI11-11	3	184TC	184TC	56C	56C	25.89	13.68	15.18	13.55	13.55	7.64	7.64	7.44	7.44	47.20	48.70	46.88	46.88	8.60	8.60	8.50	8.60	9.06	66	78	95	74	73	144	161	140	139
22SVI12-12	5	184TC	184TC	184TC	184TC	27.78	13.68	15.18	16.14	15.18	7.64	7.64	7.64	7.64	49.09	50.59	51.55	50.59	8.60	8.60	8.60	8.60	9.06	68	81	97	96	88	149	165	164	156

All listed dimensions are with Inducer, 22SVI11-11 has 11 Stages with Impeller and 1 Inducer chamber.

PERFORMANCE CURVE **22 e-SVI 1750 RPM** **60 Hz**



MINIMUM FLOW RATE: 11 GPM [2.5 m³/hr]

BLANK STAGES – DIMENSIONAL DATA AND PERFORMANCE CORRECTIONS

To meet specific depths of tanks and containers, the immersion depth (dimension L1) of the pump can be varied using blank stages.

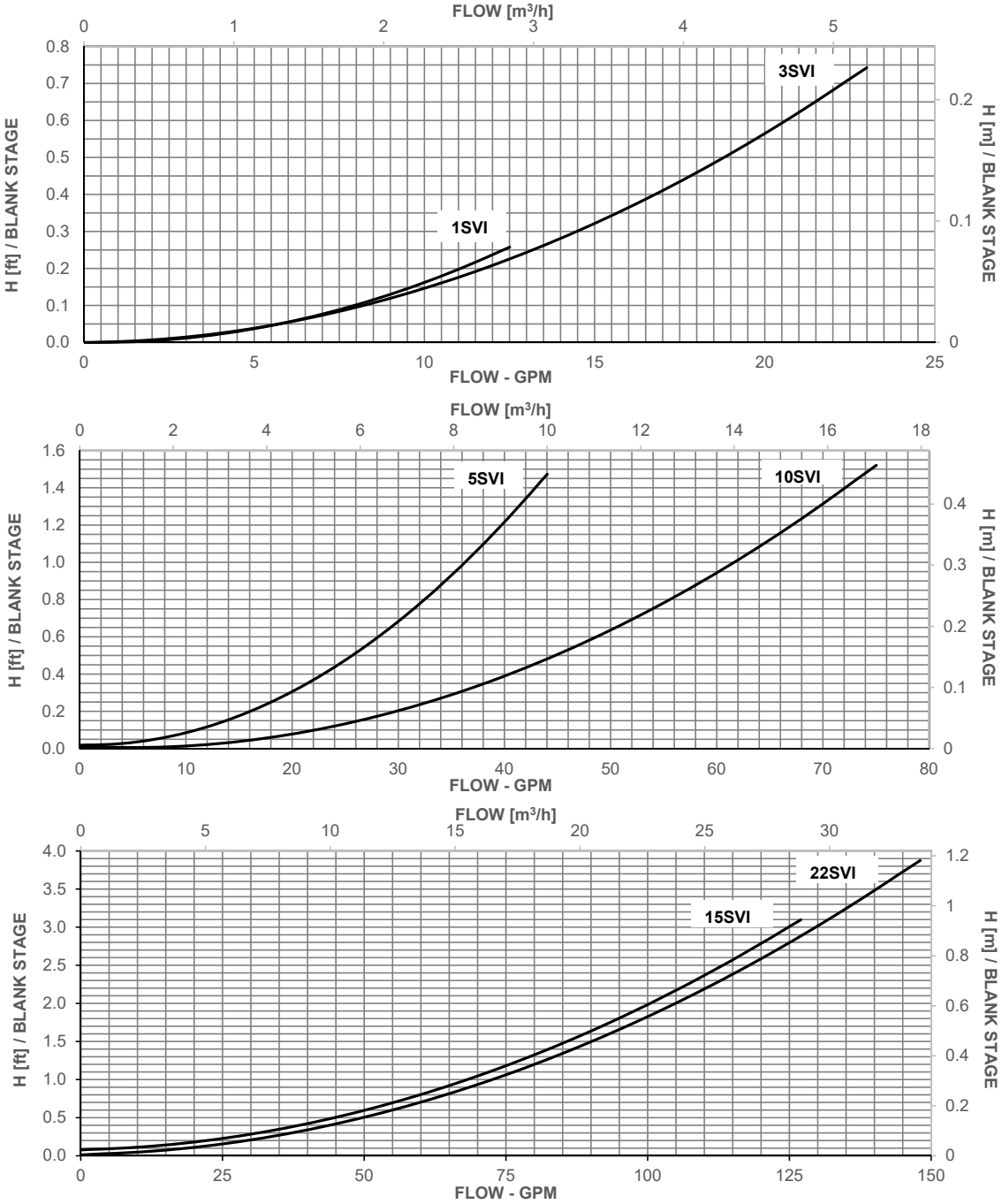
CLOSED-COUPLED VERSION

NUMBER OF STAGES	IMMERSION DEPTH (IN)		
	PUMP SIZE		
	1 e-SVI	3 e-SVI	5 e-SVI
1	–	–	–
2	5.0	5.0	5.6
3	5.7	5.7	6.5
4	6.5	6.5	7.5
5	7.3	7.3	8.5
6	8.1	8.1	9.5
7	8.9	8.9	10.5
8	9.7	9.7	11.5
9	10.5	10.5	12.4
10	11.3	11.3	13.4
11	12.0	12.0	14.4
12	12.8	12.8	15.4
13	13.6	13.6	16.4
14	14.4	14.4	–
15	15.2	15.2	–
16	16.0	16.0	–
17	16.8	16.8	–

COUPLED VERSION

NUMBER OF STAGES	IMMERSION DEPTH (IN)					
	PUMP SIZE					
	1 e-SVI	3 e-SVI	5 e-SVI	10 e-SVI	15 e-SVI	22 e-SVI
1	–	–	–	–	–	–
2	4.7	4.7	5.3	6.6	8.5	8.5
3	5.5	5.5	6.3	7.8	10.4	10.4
4	6.3	6.3	7.2	9.1	12.2	12.2
5	7.0	7.0	8.2	10.4	14.1	14.1
6	7.8	7.8	9.2	11.6	16.0	16.0
7	8.6	8.6	10.2	12.9	17.9	17.9
8	9.4	9.4	11.2	14.1	19.8	19.8
9	10.2	10.2	12.2	15.4	21.7	21.7
10	11.0	11.0	13.1	16.7	23.6	23.6
11	11.8	11.8	14.1	17.9	25.5	25.5
12	12.6	12.6	15.1	19.2	27.4	27.4
13	13.3	13.3	16.1	20.4	29.3	29.3
14	14.1	14.1	17.1	21.7	31.1	31.1
15	14.9	14.9	18.1	23.0	33.0	33.0
16	15.7	15.7	19.1	24.2	34.9	34.9
17	16.5	16.5	20.0	25.5	36.8	36.8
18	17.3	17.3	21.0	26.7	38.7	38.7
19	18.1	18.1	22.0	28.0	40.6	40.6
20	18.9	18.9	23.0	29.3	–	–
21	19.6	19.6	24.0	30.5	–	–
22	20.4	20.4	25.0	31.8	–	–
23	21.2	21.2	25.9	33.0	–	–
24	22.0	22.0	26.9	34.3	–	–
25	22.8	22.8	27.9	35.6	–	–
26	23.6	23.6	28.9	36.8	–	–
27	24.4	24.4	29.9	38.1	–	–
28	25.2	25.2	30.9	39.3	–	–
29	25.9	25.9	31.9	40.6	–	–
30	26.7	26.7	32.8	–	–	–
31	27.5	27.5	33.8	–	–	–
32	28.3	28.3	34.8	–	–	–
33	29.1	29.1	35.8	–	–	–
34	29.9	29.9	36.8	–	–	–
35	30.7	30.7	37.8	–	–	–
36	31.5	31.5	38.7	–	–	–
37	32.2	32.2	39.7	–	–	–
38	33.0	33.0	–	–	–	–
39	33.8	33.8	–	–	–	–
40	34.6	34.6	–	–	–	–
41	35.4	35.4	–	–	–	–
42	36.2	36.2	–	–	–	–
43	37.0	37.0	–	–	–	–
44	37.8	37.8	–	–	–	–
45	38.5	38.5	–	–	–	–
46	39.3	39.3	–	–	–	–
47	40.1	40.1	–	–	–	–

The charts below illustrate the head losses per blank stage to be considered when these stages are used to extend the pump height.

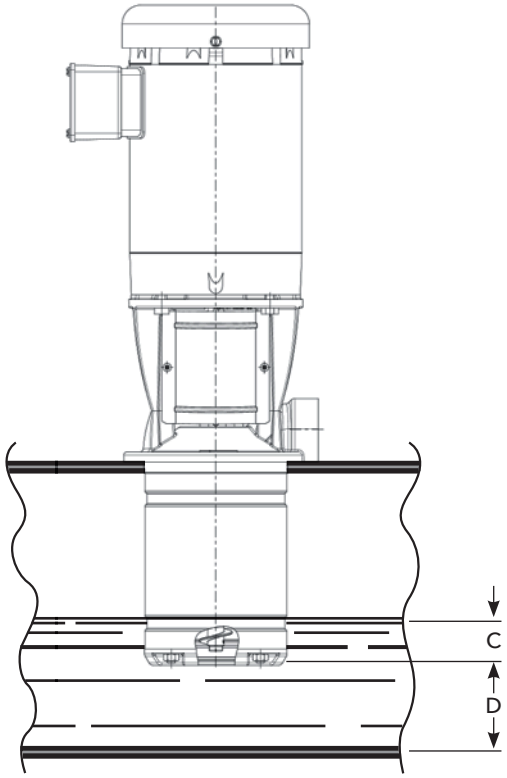


Example:
Pump 5SVI1306 (with 13 stages but only 6 impellers) running at 3500 rpm and 26.4 gpm.

Per pump's performance curve the head corresponding to 6 impellers at 26.4 gpm is approximately 177.2 ft.

The number of blank stages is 13 stages – 6 impellers = 7. From the above curve, the head loss corresponding to 26.4 gpm is about 0.53 ft/blank stage or a total of approximately 3.7 ft corresponding to 7 blank stages. Therefore the corrected head produced by this pump is 177.2 ft – 3.7 ft = 173.5 ft.

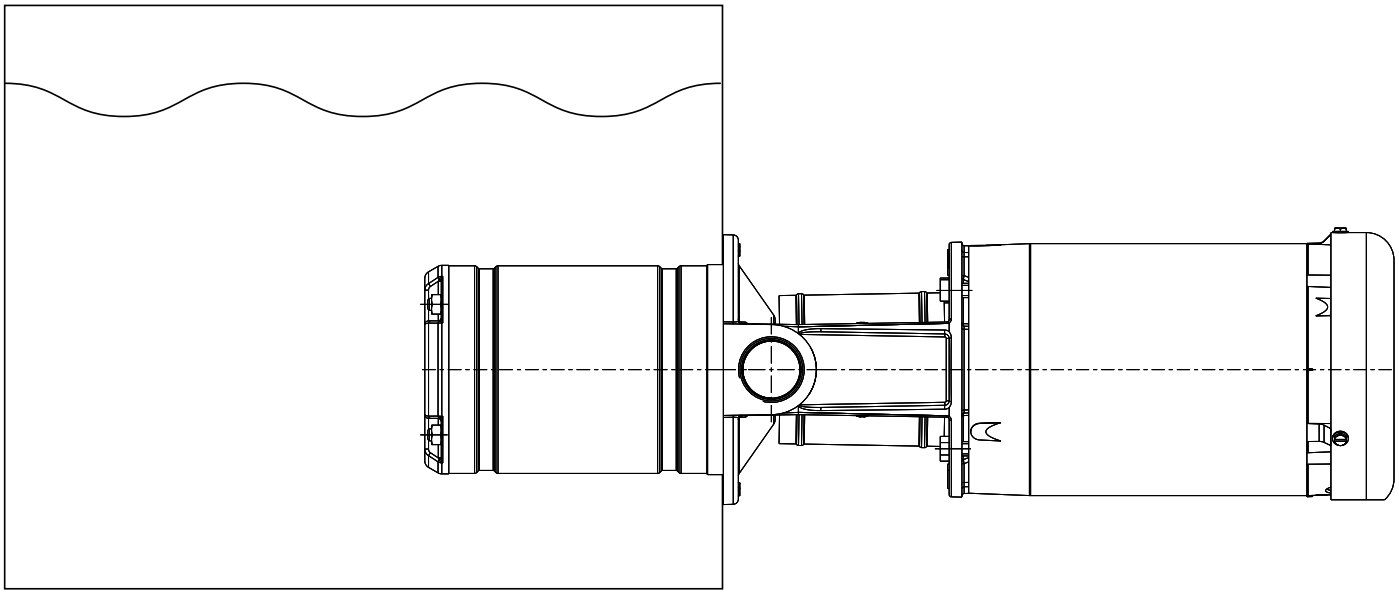
MINIMUM LEVEL OF LIQUID



PUMP SIZE	MINIMUM IMMERSION LEVEL C (IN)		DISTANCE FROM THE BOTTOM D (IN)
	WITH INDUCER	WITHOUT INDUCER	
e-SVI 1-3-5	0.8	1.2	0.8
e-SVI 10-15-22	0.8	1.2	1

HORIZONTAL MOUNTING

Certain applications require the pump to be installed in a horizontal position. Pumps with motors above 5HP will require additional support.



XYLEM HYDROVAR® PUMP MOUNTED VARIABLE SPEED CONTROLLER

Hydrovar is the intelligent pump controller that matches performance to system demand. Xylem Hydrovar is efficient and easy to install and operate, making it the ideal variable speed controller for new and retrofit applications.

The Hydrovar controller works with any standard AC motor and can be direct mounted or wall mounted. The built-in application software makes it the easiest drive to commission, program and operate, enabling virtually any configuration of pumps.

FEATURES

- Easy to setup and commission
- Energy savings (up to 70%)
- Large LCD display
- Pre-programming for standard motors
- Twenty-eight (28) language sets
- Optional Wi-Fi card for the flexibility of wireless connection
- Advanced motor control to reduce heating and extend the lifetime of the motor
- Embedded THDi filter for better electricity quality from the grid, extending the lifetime of the equipment
- Standard multi-pump capability of up to eight (8) pumps with no single failure point
- Premium card option for extended I/O
- Backward compatibility to existing Hydrovar products
- BACnet and Modbus as a standard for seamless BMS integration

SPECIFICATIONS

INPUT SUPPLY (FROM 2 HP TO 30 HP):	• 1Ø Input 208/230 V, 2 – 5 hp (208-240 V ± 10%) • 3Ø Input 208/230 V, 2 – 15 hp (208-240 V ± 10%) • 3Ø Input 460 V, 2 – 30 hp (380-460 V ± 10%)
SPEED	from 15-70 Hz
POWER SUPPLY	single or three phase 50 or 60 Hz
MOTOR REQUIREMENTS	3 phase, TEFC, 208 – 230 V or 460 V, 0 – 60 Hz, Class F insulation, NEMA design A or B Motor to fan cover of TEFC motor for a packaged unit with a small footprint
MAXIMUM AMBIENT TEMPERATURE	104° F
INDOOR ENCLOSURE	NEMA 1. Avoid excessive dust, corrosives, salts and direct sunlight.
COMMUNICATION	RS485 interface, BACnet, Modbus

TECHNICAL DATA – PUMP HYDRAULICS/ MOTOR SIZING (COUPLED CONFIGURATIONS)

1 e-SVI 3500 RPM

NO OF IMPELLERS	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF (HP>1) OR 1.25 SF (HP<1) MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
29	3.34	3.00	5.00	813	352.4	24.3	362 psi	1-1/4" NPT
28	3.22	3.00	5.00	785	340.3	23.5	362 psi	1-1/4" NPT
27	3.11	3.00	5.00	757	328.1	22.6	362 psi	1-1/4" NPT
26	2.99	3.00	3.00	729	316	21.8	362 psi	1-1/4" NPT
25	2.88	3.00	3.00	701	303.9	21	362 psi	1-1/4" NPT
24	2.76	3.00	3.00	673	291.7	20.1	362 psi	1-1/4" NPT
23	2.67	3.00	3.00	645	279.6	19.3	362 psi	1-1/4" NPT
22	2.53	3.00	3.00	617	267.4	18.4	362 psi	1-1/4" NPT
21	2.42	3.00	3.00	589	255.3	17.6	362 psi	1-1/4" NPT
20	2.30	2.00	3.00	561	243.2	16.8	362 psi	1-1/4" NPT
19	2.19	2.00	3.00	532	230.6	15.9	362 psi	1-1/4" NPT
18	2.07	2.00	3.00	504	218.5	15.1	362 psi	1-1/4" NPT
17	1.96	2.00	2.00	476	206.3	14.2	362 psi	1-1/4" NPT
16	1.84	2.00	2.00	448	194.2	13.4	362 psi	1-1/4" NPT
15	1.73	1.50	2.00	420	182.1	12.6	362 psi	1-1/4" NPT
14	1.61	1.50	2.00	392	169.9	11.7	362 psi	1-1/4" NPT
13	1.50	1.50	1.50	364	157.8	10.9	362 psi	1-1/4" NPT
12	1.38	1.50	1.50	336	145.6	10	362 psi	1-1/4" NPT
11	1.27	1.50	1.50	308	133.5	9.2	362 psi	1-1/4" NPT
10	1.15	1.00	1.50	280	121.4	8.4	362 psi	1-1/4" NPT
9	1.04	1.00	1.50	252	109.2	7.5	362 psi	1-1/4" NPT
8	0.90	0.75	1.00	224	97.1	6.7	362 psi	1-1/4" NPT
7	0.81	0.75	1.00	196	85	5.9	362 psi	1-1/4" NPT
6	0.69	0.75	0.75	168	72.8	5	362 psi	1-1/4" NPT
5	0.58	0.50	0.75	140	60.7	4.2	362 psi	1-1/4" NPT
4	0.46	0.50	0.50	112	48.5	3.3	362 psi	1-1/4" NPT
3	0.35	0.50	0.50	84	36.4	2.5	362 psi	1-1/4" NPT
2	0.23	0.50	0.50	56	24.3	1.7	362 psi	1-1/4" NPT

TECHNICAL DATA – PUMP HYDRAULICS/ MOTOR SIZING (COUPLED CONFIGURATIONS)

3 e-SVI 3500 RPM

NO OF IMPELLERS	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF (HP>1) OR 1.25 SF (HP<1) MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
23	4.78	5.00	5.00	804	348.5	24	362 psi	1-1/4" NPT
22	4.58	5.00	5.00	769	333.3	23	362 psi	1-1/4" NPT
21	4.37	5.00	5.00	734	318.2	21.9	362 psi	1-1/4" NPT
20	4.16	5.00	5.00	699	303	20.9	362 psi	1-1/4" NPT
19	3.95	5.00	5.00	664	287.8	19.8	362 psi	1-1/4" NPT
18	3.74	5.00	5.00	629	272.6	18.8	362 psi	1-1/4" NPT
17	3.54	5.00	5.00	594	257.5	17.8	362 psi	1-1/4" NPT
16	3.33	3.00	5.00	559	242.3	16.7	362 psi	1-1/4" NPT
15	3.12	3.00	5.00	524	227.1	15.7	362 psi	1-1/4" NPT
14	2.91	3.00	3.00	487	211.1	14.6	362 psi	1-1/4" NPT
13	2.7	3.00	3.00	452	195.9	13.5	362 psi	1-1/4" NPT
12	2.5	3.00	3.00	418	181.2	12.5	362 psi	1-1/4" NPT
11	2.29	2.00	3.00	383	166	11.4	362 psi	1-1/4" NPT
10	2.08	2.00	3.00	348	150.8	10.4	362 psi	1-1/4" NPT
9	1.87	2.00	2.00	313	135.7	9.4	362 psi	1-1/4" NPT
8	1.66	1.50	2.00	279	120.9	8.3	362 psi	1-1/4" NPT
7	1.46	1.50	1.50	245	106.2	7.3	362 psi	1-1/4" NPT
6	1.25	1.50	1.50	210	91	6.3	362 psi	1-1/4" NPT
5	1.04	1.00	1.50	175	75.9	5.2	362 psi	1-1/4" NPT
4	0.83	0.75	1.00	140	60.7	4.2	362 psi	1-1/4" NPT
3	0.62	0.50	0.75	105	45.5	3.1	362 psi	1-1/4" NPT
2	0.42	0.50	0.50	70	30.3	2.1	362 psi	1-1/4" NPT

TECHNICAL DATA – PUMP HYDRAULICS/ MOTOR SIZING (COUPLED CONFIGURATIONS)

5 e-SVI 3500 RPM

NO OF IMPELLERS	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF (HP>1) OR 1.25 SF (HP<1) MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
24	7.60	7.50	10.00	830	359.8	24.8	362 psi	1-1/4" NPT
23	7.26	7.50	7.50	796	345	23.8	362 psi	1-1/4" NPT
22	6.94	7.50	7.50	762	330.3	22.8	362 psi	1-1/4" NPT
21	6.63	7.50	7.50	727	315.1	21.7	362 psi	1-1/4" NPT
20	6.31	7.50	7.50	692	300	20.7	362 psi	1-1/4" NPT
19	6.00	7.50	7.50	658	285.2	19.7	362 psi	1-1/4" NPT
18	5.82	7.50	7.50	623	270	18.6	362 psi	1-1/4" NPT
17	5.37	5.00	7.50	589	255.3	17.6	362 psi	1-1/4" NPT
16	5.05	5.00	7.50	554	240.1	16.6	362 psi	1-1/4" NPT
15	4.74	5.00	5.00	519	225	15.5	362 psi	1-1/4" NPT
14	4.42	5.00	5.00	485	210.2	14.5	362 psi	1-1/4" NPT
13	4.11	5.00	5.00	450	195.1	13.4	362 psi	1-1/4" NPT
12	3.87	5.00	5.00	415	179.9	12.4	362 psi	1-1/4" NPT
11	3.55	5.00	5.00	380	164.7	11.4	362 psi	1-1/4" NPT
10	3.23	3.00	5.00	346	150	10.3	362 psi	1-1/4" NPT
9	2.90	3.00	3.00	311	134.8	9.3	362 psi	1-1/4" NPT
8	2.58	3.00	3.00	277	120.1	8.3	362 psi	1-1/4" NPT
7	2.26	2.00	3.00	242	104.9	7.2	362 psi	1-1/4" NPT
6	2.00	2.00	2.00	208	90.2	6.2	362 psi	1-1/4" NPT
5	1.67	1.50	2.00	173	75	5.2	362 psi	1-1/4" NPT
4	1.34	1.50	1.50	139	60.3	4.2	362 psi	1-1/4" NPT
3	1.00	1.00	1.00	104	45.1	3.1	362 psi	1-1/4" NPT
2	0.67	0.75	0.75	69	29.9	2.1	362 psi	1-1/4" NPT

TECHNICAL DATA – PUMP HYDRAULICS/ MOTOR SIZING (COUPLED CONFIGURATIONS)

10 e-SVI 3500 RPM

NO OF IMPELLERS	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF (HP>1) OR 1.25 SF (HP<1) MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
15	12.60	15.00	15.00	819	355	24.5	362 psi	1-1/4" NPT
14	11.45	10.00	15.00	765	331.6	22.9	362 psi	1-1/4" NPT
13	10.85	10.00	15.00	710	307.8	21.2	362 psi	1-1/4" NPT
12	10.08	10.00	15.00	657	284.8	19.6	362 psi	1-1/4" NPT
11	9.29	10.00	10.00	603	261.4	18	362 psi	1-1/4" NPT
10	8.91	10.00	10.00	548	237.5	16.4	362 psi	1-1/4" NPT
9	7.61	7.50	10.00	493	213.7	14.7	362 psi	1-1/4" NPT
8	6.61	7.50	7.50	438	189.9	13.1	362 psi	1-1/4" NPT
7	5.81	7.50	7.50	384	166.4	11.5	362 psi	1-1/4" NPT
6	4.89	5.00	5.00	329	142.6	9.8	362 psi	1-1/4" NPT
5	4.08	5.00	5.00	274	118.8	8.2	362 psi	1-1/4" NPT
4	3.32	5.00	5.00	218	94.5	6.5	362 psi	1-1/4" NPT
3	2.56	3.00	3.00	163	70.7	4.9	362 psi	1-1/4" NPT
2	1.71	2.00	2.00	108	46.8	3.2	362 psi	1-1/4" NPT
1	0.88	0.75	1.00	54	23.4	1.6	362 psi	1-1/4" NPT

15 e-SVI 3500 RPM

NO OF IMPELLERS	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
11	20.10	20.00	25.00	739	320.3	22.1	362 psi	2" NPT
10	17.97	20.00	20.00	672	291.3	20.1	362 psi	2" NPT
9	16.19	15.00	20.00	605	262.2	18.1	362 psi	2" NPT
8	15.1	15.00	20.00	538	233.2	16.1	362 psi	2" NPT
7	12.69	15.00	15.00	465	201.6	13.9	362 psi	2" NPT
6	10.88	10.00	15.00	397	172.1	11.9	362 psi	2" NPT
5	9.06	10.00	10.00	331	143.5	9.9	362 psi	2" NPT
4	7.24	7.50	7.50	265	114.9	7.9	362 psi	2" NPT
3	5.43	5.00	7.50	199	86.3	5.9	362 psi	2" NPT
2	3.62	5.00	5.00	132	57.2	3.9	362 psi	2" NPT
1	1.81	2.00	2.00	65	28.2	1.9	362 psi	2" NPT

TECHNICAL DATA – PUMP HYDRAULICS/ MOTOR SIZING (COUPLED CONFIGURATIONS)

22 e-SVI 3500 RPM

NO OF IMPELLERS	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
11	26.51	25.00	30.00	771	334.2	23	362 psi	2" NPT
10	24.1	25.00	25.00	700	303.4	20.9	362 psi	2" NPT
9	21.69	20.00	25.00	629	272.6	18.8	362 psi	2" NPT
8	19.28	20.00	20.00	559	242.3	16.7	362 psi	2" NPT
7	16.87	15.00	20.00	489	212	14.6	362 psi	2" NPT
6	14.46	15.00	15.00	419	181.6	12.5	362 psi	2" NPT
5	12.05	15.00	15.00	349	151.3	10.4	362 psi	2" NPT
4	9.64	10.00	10.00	280	121.4	8.4	362 psi	2" NPT
3	7.23	7.50	7.50	210	91	6.3	362 psi	2" NPT
2	4.82	5.00	5.00	140	60.7	4.2	362 psi	2" NPT
1	2.41	3.00	3.00	70	30.3	2.1	362 psi	2" NPT

TECHNICAL DATA – PUMP HYDRAULICS/ MOTOR SIZING (COUPLED CONFIGURATIONS)

1 e-SVI 1750 RPM

NO OF IMPELLERS	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF (HP>1) OR 1.25 SF (HP<1) MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
30	0.44	0.50	0.50	210	91	6.3	362 psi	1-1/4" NPT
29	0.43	0.50	0.50	203	88	6.1	362 psi	1-1/4" NPT
28	0.41	0.50	0.50	196	85	5.8	362 psi	1-1/4" NPT
27	0.4	0.50	0.50	189	82	5.6	362 psi	1-1/4" NPT
26	0.38	0.50	0.50	181	78	5.4	362 psi	1-1/4" NPT
25	0.37	0.50	0.50	175	76	5.2	362 psi	1-1/4" NPT
24	0.36	0.50	0.50	168	73	5	362 psi	1-1/4" NPT
23	0.34	0.50	0.50	162	70	4.8	362 psi	1-1/4" NPT
22	0.33	0.50	0.50	155	67	4.6	362 psi	1-1/4" NPT
21	0.31	0.50	0.50	148	64	4.4	362 psi	1-1/4" NPT
20	0.3	0.50	0.50	141	61	4.2	362 psi	1-1/4" NPT
19	0.28	0.50	0.50	134	58	4	362 psi	1-1/4" NPT
18	0.27	0.50	0.50	127	55	3.8	362 psi	1-1/4" NPT
17	0.25	0.50	0.50	120	52	3.6	362 psi	1-1/4" NPT
16	0.23	0.50	0.50	112	49	3.4	362 psi	1-1/4" NPT
15	0.22	0.50	0.50	107	46	3.2	362 psi	1-1/4" NPT
14	0.21	0.50	0.50	100	43	3	362 psi	1-1/4" NPT
13	0.19	0.50	0.50	93	40	2.8	362 psi	1-1/4" NPT
12	0.18	0.50	0.50	86	37	2.6	362 psi	1-1/4" NPT
11	0.16	0.50	0.50	79	34	2.4	362 psi	1-1/4" NPT
10	0.15	0.50	0.50	72	31	2.1	362 psi	1-1/4" NPT
9	0.13	0.50	0.50	65	28	1.9	362 psi	1-1/4" NPT
8	0.12	0.50	0.50	58	25	1.7	362 psi	1-1/4" NPT
7	0.1	0.50	0.50	50	22	1.5	362 psi	1-1/4" NPT
6	0.09	0.50	0.50	43	19	1.3	362 psi	1-1/4" NPT
5	0.07	0.50	0.50	36	16	1.1	362 psi	1-1/4" NPT
4	0.06	0.50	0.50	29	13	0.9	362 psi	1-1/4" NPT
3	0.04	0.50	0.50	22	10	0.7	362 psi	1-1/4" NPT
2	0.03	0.50	0.50	15	6	0.4	362 psi	1-1/4" NPT

TECHNICAL DATA – PUMP HYDRAULICS/ MOTOR SIZING (COUPLED CONFIGURATIONS)

3 e-SVI 1750 RPM

NO OF IMPELLERS / NO OF REDUCED DIAMETER	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF (HP>1) OR 1.25 SF (HP<1) MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
30	0.73	0.75	0.75	267	116	8	362 psi	1-1/4" NPT
29	0.71	0.75	0.75	257	111	7.7	362 psi	1-1/4" NPT
28	0.68	0.75	0.75	249	108	7.4	362 psi	1-1/4" NPT
27	0.66	0.75	0.75	240	104	7.2	362 psi	1-1/4" NPT
26	0.63	0.75	0.75	231	100	6.9	362 psi	1-1/4" NPT
25	0.61	0.5	0.75	222	96	6.6	362 psi	1-1/4" NPT
24	0.59	0.5	0.75	213	92	6.4	362 psi	1-1/4" NPT
23	0.56	0.5	0.75	204	88	6.1	362 psi	1-1/4" NPT
22	0.54	0.5	0.75	194	84	5.8	362 psi	1-1/4" NPT
21	0.51	0.5	0.75	184	80	5.5	362 psi	1-1/4" NPT
20	0.49	0.5	0.5	167	72	5	362 psi	1-1/4" NPT
19	0.46	0.5	0.5	162	70	4.8	362 psi	1-1/4" NPT
18	0.44	0.5	0.5	156	68	4.7	362 psi	1-1/4" NPT
17	0.41	0.5	0.5	150	65	4.5	362 psi	1-1/4" NPT
16	0.39	0.5	0.5	141	61	4.2	362 psi	1-1/4" NPT
15	0.37	0.5	0.5	132	57	3.9	362 psi	1-1/4" NPT
14	0.34	0.5	0.5	124	54	3.7	362 psi	1-1/4" NPT
13	0.32	0.5	0.5	115	50	3.4	362 psi	1-1/4" NPT
12	0.29	0.5	0.5	105	45	3.1	362 psi	1-1/4" NPT
11	0.27	0.5	0.5	97	42	2.9	362 psi	1-1/4" NPT
10	0.24	0.5	0.5	89	39	2.7	362 psi	1-1/4" NPT
9	0.22	0.5	0.5	80	35	2.4	362 psi	1-1/4" NPT
8	0.2	0.5	0.5	71	31	2.1	362 psi	1-1/4" NPT
7	0.17	0.5	0.5	63	27	1.9	362 psi	1-1/4" NPT
6	0.15	0.5	0.5	54	23	1.6	362 psi	1-1/4" NPT
5	0.12	0.5	0.5	45	19	1.3	362 psi	1-1/4" NPT
4	0.1	0.5	0.5	36	16	1.1	362 psi	1-1/4" NPT
3	0.07	0.5	0.5	28	12	0.8	362 psi	1-1/4" NPT
2	0.05	0.5	0.5	19	8	0.6	362 psi	1-1/4" NPT

TECHNICAL DATA – PUMP HYDRAULICS/ MOTOR SIZING (COUPLED CONFIGURATIONS)

5 e-SVI 1750 RPM

NO OF IMPELLERS	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF (HP>1) OR 1.25 SF (HP<1) MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
27	1.02	1.00	1.50	239	104	7.1	362 psi	1-1/4" NPT
26	0.98	1.00	1.00	230	100	6.9	362 psi	1-1/4" NPT
25	0.94	1.00	1.00	220	95	6.6	362 psi	1-1/4" NPT
24	0.9	0.75	1.00	212	92	6.3	362 psi	1-1/4" NPT
23	0.87	0.75	1.00	203	88	6.1	362 psi	1-1/4" NPT
22	0.83	0.75	1.00	195	84	5.8	362 psi	1-1/4" NPT
21	0.79	0.75	1.00	186	81	5.6	362 psi	1-1/4" NPT
20	0.75	0.75	0.75	177	77	5.3	362 psi	1-1/4" NPT
19	0.72	0.75	0.75	167	72	5	362 psi	1-1/4" NPT
18	0.68	0.75	0.75	159	69	4.7	362 psi	1-1/4" NPT
17	0.64	0.75	0.75	150	65	4.5	362 psi	1-1/4" NPT
16	0.6	0.50	0.75	142	61	4.2	362 psi	1-1/4" NPT
15	0.57	0.50	0.75	133	58	4	362 psi	1-1/4" NPT
14	0.53	0.50	0.75	124	54	3.7	362 psi	1-1/4" NPT
13	0.49	0.50	0.50	114	49	3.4	362 psi	1-1/4" NPT
12	0.45	0.50	0.50	106	46	3.2	362 psi	1-1/4" NPT
11	0.41	0.50	0.50	97	42	2.9	362 psi	1-1/4" NPT
10	0.38	0.50	0.50	88	38	2.6	362 psi	1-1/4" NPT
9	0.34	0.50	0.50	79	34	2.4	362 psi	1-1/4" NPT
8	0.3	0.50	0.50	71	31	2.1	362 psi	1-1/4" NPT
7	0.26	0.50	0.50	62	27	1.9	362 psi	1-1/4" NPT
6	0.23	0.50	0.50	54	23	1.6	362 psi	1-1/4" NPT
5	0.19	0.50	0.50	45	19	1.3	362 psi	1-1/4" NPT
4	0.15	0.50	0.50	37	16	1.1	362 psi	1-1/4" NPT
3	0.11	0.50	0.50	28	12	0.8	362 psi	1-1/4" NPT
2	0.08	0.5	0.5	19	8	0.6	362 psi	1-1/4" NPT

TECHNICAL DATA – PUMP HYDRAULICS/ MOTOR SIZING (COUPLED CONFIGURATIONS)

10 e-SVI 1750 RPM

NO OF IMPELLERS	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF (HP>1) OR 1.25 SF (HP<1) MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
20	2.13	3.00	3.00	286	124	8.5	362 psi	2" NPT
19	2.05	2.00	3.00	272	118	8.1	362 psi	2" NPT
18	1.99	2.00	2.00	257	111	7.7	362 psi	2" NPT
17	1.91	2.00	2.00	243	105	7.3	362 psi	2" NPT
16	1.81	2.00	2.00	229	99	6.8	362 psi	2" NPT
15	1.59	2.00	2.00	214	93	6.4	362 psi	2" NPT
14	1.49	1.50	1.50	200	87	6	362 psi	2" NPT
13	1.38	1.50	1.50	185	80	5.5	362 psi	2" NPT
12	1.28	1.50	1.50	170	74	5.1	362 psi	2" NPT
11	1.19	1.50	1.50	154	67	4.6	362 psi	2" NPT
10	1.08	1.00	1.50	141	61	4.2	362 psi	2" NPT
9	0.95	1.00	1.00	127	55	3.8	362 psi	2" NPT
8	0.85	0.75	1.00	113	49	3.4	362 psi	2" NPT
7	0.74	0.75	0.75	98	42	2.9	362 psi	2" NPT
6	0.62	0.75	0.75	85	37	2.5	362 psi	2" NPT
5	0.52	0.50	0.75	71	31	2.1	362 psi	2" NPT
4	0.42	0.50	0.50	57	25	1.7	362 psi	2" NPT
3	0.32	0.50	0.50	43	19	1.3	362 psi	2" NPT
2	0.22	0.50	0.50	29	13	0.9	362 psi	2" NPT
1	0.11	0.50	0.50	14	6	0.4	362 psi	2" NPT

15 e-SVI 1750 RPM

NO OF IMPELLERS	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF (HP>1) OR 1.25 SF (HP<1) MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
15	3.50	5.00	5.00	263	114	7.8	362 psi	2" NPT
14	3.20	3.00	5.00	245	106	7.3	362 psi	2" NPT
13	3.01	3.00	5.00	228	99	6.8	362 psi	2" NPT
12	2.74	3.00	3.00	210	91	6.3	362 psi	2" NPT
11	2.51	3.00	3.00	192	83	5.7	362 psi	2" NPT
10	2.33	3.00	3.00	175	76	5.2	362 psi	2" NPT
9	2.06	2.00	3.00	158	68	4.7	362 psi	2" NPT
8	1.83	2.00	2.00	140	61	4.2	362 psi	2" NPT
7	1.60	1.50	2.00	120	52	3.6	362 psi	2" NPT
6	1.38	1.50	1.50	103	45	3.1	362 psi	2" NPT
5	1.15	1.00	1.50	86	37	2.6	362 psi	2" NPT
4	0.92	1.00	1.00	68	29	2	362 psi	2" NPT
3	0.69	0.75	0.75	51	22	1.5	362 psi	2" NPT
2	0.46	0.50	0.50	35	15	1	362 psi	2" NPT
1	0.23	0.50	0.50	8	3	0.2	362 psi	2" NPT

TECHNICAL DATA – PUMP HYDRAULICS/ MOTOR SIZING (COUPLED CONFIGURATIONS)

22 e-SVI 1750 RPM

NO OF IMPELLERS	MAXIMUM HP DRAW	MOTOR HP FOR USE WITH 1.15 SF (HP>1) OR 1.25 SF (HP<1) MOTOR	MOTOR HP FOR USE WITH 1.0 SF MOTOR	MAXIMUM TDH (FEET)	MAXIMUM TDH (PSI)	MAXIMUM TDH (BAR)	MAXIMUM ALLOWABLE PRESSURE	DISCHARGE HEAD CONNECTION
12	3.50	5.00	5.00	220	95	6.6	362 psi	2" NPT
11	3.17	3.00	5.00	202	87	6	362 psi	2" NPT
10	2.89	3.00	3.00	183	79	5.5	362 psi	2" NPT
9	2.59	3.00	3.00	165	71	4.9	362 psi	2" NPT
8	2.32	3.00	3.00	147	64	4.4	362 psi	2" NPT
7	2.02	2.00	3.00	129	56	3.8	362 psi	2" NPT
6	1.74	2.00	2.00	110	48	3.3	362 psi	2" NPT
5	1.41	1.50	1.50	91	39	2.7	362 psi	2" NPT
4	1.19	1.50	1.50	74	32	2.2	362 psi	2" NPT
3	0.87	0.75	1.00	55	24	1.6	362 psi	2" NPT
2	0.57	0.50	0.75	36	16	1.1	362 psi	2" NPT
1	0.29	0.50	0.50	19	8	0.6	362 psi	2" NPT

TECHNICAL DATA

NPSH

The minimum operating values that can be reached at the pump suction end are limited by the onset of cavitation.

Cavitation is the formation of vapor-filled cavities within liquids where the pressure is locally reduced to a critical value, or where the local pressure is equal to, or just below the vapor pressure of the liquid.

The vapor-filled cavities flow with the current and when they reach a higher pressure ares the vapor contained in the cavities condenses. The cavities collide, generating pressure waves that are transmitted to the walls. These, being subjected to stress cycles, gradually become deformed and yield due to fatigue. This phenomenon, characterized by a metallic noise produced by the hammering on the pipe walls, is called incipient cavitation.

The damage caused by cavitation may be magnified by electrochemical corrosion and a local rise in temperature due to the plastic deformation of the walls. The materials that offer the highest resistance to heat and corrosion are alloy steels, especially austenitic steel. The conditions that trigger cavitation may be assessed by calculating the total net suction head, referred to in technical literature with the acronym NPSH (Net Positive Suction Head).

The NPSH represents the total energy (expressed in feet) of the liquid measured at suction under conditions of incipient cavitation, excluding the vapor pressure (expressed in feet) that the liquid has at the pump inlet.

A margin above the NPSHr is necessary in order to achieve the pump's published performance and an adequate service life.

To find the static height (hz) at which to install the machine under safe conditions, the following formula must be verified:

$$h_p + h_z \geq (NPSHr + 2 \text{ feet}) + h_f + h_{pv}$$

where:

h_p is the absolute pressure applied to the free liquid surface in the suction tank, expressed in feet of liquid; hp is the quotient between the barometric pressure and the specific weight of the liquid.

h_z is the suction lift between the pump axis and the free liquid surface in the suction tank, expressed in feet; hz is negative when the liquid level is lower than the pump axis.

h_f is the flow resistance in the suction line and its accessories, such as: fittings, foot valve, gate valve, elbows, etc.

h_{pv} is the vapor pressure of the liquid at the operating temperature, expressed in feet of the liquid. hpv is the quotient between the Pv vapor pressure and the liquid's specific weight.

0.5 is the safety factor.

The maximum possible suction head for installation depends on the value of the atmospheric pressure (i.e. the elevation above sea level at which the pump is installed) and the temperature of the liquid.

To help the user, with reference to water temperature (40°F) and to the elevation above sea level, the following tables show the drop in hydraulic pressure head in relation to the elevation above sea level, and the suction loss in relation to temperature.

WATER TEMPERATURE (°C)	68	104	140	176	194	230	248
SUCTION LOSS (FT)	-.7	2.3	6.6	16.4	24.3	50.5	70.5

ELEVATION ABOVE SEA LEVEL (FT)	1600	3300	4900	6500	8200	9800
SUCTION LOSS (FT)	1.8	3.6	5.4	7.2	9.0	10.8

To reduce it to a minimum, especially in cases of high suction head (over 13 – 16 feet) or within the operating limits with high flow rates, we recommend using a suction line having a larger diameter than that of the pump's suction port. It is always a good idea to position the pump as close as possible to the liquid to be pumped.

TECHNICAL DATA

WATER PROPERTY CHART

TEMP °F	TEMP °C	SPECIFIC VOLUME	SPECIFIC GRAVITY			WEIGHT (LB/CUBIC FT)	VAPOR PRESSURE (PSI ABS)
		(CUBIC FT/LB)	@ 39.2°F	@ 60°F	@ 68°F		
32	0.0	0.01602	1.000	1.001	1.002	62.42	0.088
35	1.7	0.01602	1.000	1.001	1.002	62.42	0.100
40	4.4	0.01602	1.000	1.001	1.002	62.42	0.122
50	10.0	0.01603	0.999	1.001	1.002	62.38	0.178
60	15.6	0.01604	0.999	1.000	1.001	62.34	0.256
70	21.1	0.01606	0.998	0.999	1.000	62.27	0.363
80	26.7	0.01608	0.996	0.998	0.999	62.19	0.507
90	32.2	0.0161	0.995	0.996	0.997	62.11	0.698
100	37.8	0.01613	0.993	0.994	0.995	62.00	0.949
120	48.9	0.0162	0.989	0.990	0.991	61.73	1.692
140	60.0	0.01629	0.983	0.985	0.986	61.39	2.889
160	71.1	0.01639	0.977	0.979	0.979	61.01	4.741
180	82.2	0.01651	0.970	0.972	0.973	60.57	7.510
200	93.3	0.01663	0.963	0.964	0.966	60.13	11.526
212	100.0	0.01672	0.958	0.959	0.960	59.81	14.696
220	104.4	0.01677	0.955	0.956	0.957	59.63	17.186
240	115.6	0.01692	0.947	0.948	0.949	59.10	24.97
260	126.7	0.01709	0.938	0.939	0.940	58.51	35.43
280	137.8	0.01726	0.928	0.929	0.930	58.00	49.20
300	148.9	0.01745	0.918	0.919	0.920	57.31	67.01
320	160.0	0.01756	0.908	0.909	0.910	56.66	89.66
340	171.1	0.01787	0.896	0.898	0.899	55.96	118.01
360	182.2	0.01811	0.885	0.886	0.887	55.22	153.04
380	193.3	0.01836	0.873	0.874	0.875	54.47	195.77
400	204.4	0.01864	0.859	0.860	0.862	53.65	247.31
420	215.6	0.01894	0.846	0.847	0.848	52.80	308.83
440	226.7	0.01926	0.832	0.833	0.834	51.92	381.59
460	237.8	0.0196	0.817	0.818	0.819	51.02	466.9
480	248.9	0.02	0.801	0.802	0.803	50.00	566.1
500	260.0	0.0204	0.785	0.786	0.787	49.02	680.8
520	271.1	0.0209	0.765	0.766	0.767	47.85	812.4
540	282.2	0.0215	0.746	0.747	0.748	46.51	962.5
560	293.3	0.0221	0.726	0.727	0.728	45.30	1133.1
580	304.4	0.0228	0.703	0.704	0.704	43.90	1325.8
600	315.6	0.0236	0.678	0.679	0.680	42.30	1542.9
620	326.7	0.0247	0.649	0.650	0.650	40.50	1786.6
640	337.8	0.026	0.617	0.618	0.618	38.50	2059.7
660	348.9	0.0278	0.577	0.577	0.578	36.00	2365.4
680	360.0	0.0305	0.525	0.526	0.527	32.80	2708.1
700	371.1	0.0369	0.434	0.435	0.435	27.10	3093.7

TECHNICAL DATA

VOLUMETRIC CAPACITY

LITERS PER MINUTE (L/MIN)	CUBIC METERS PER HOUR (M^3/H)	CUBIC FEET PER HOUR (FT^3/H)	CUBIC FEET PER MINUTE (FT^3/MIN)	IMP. GAL. PER MINUTE (IMP. GAL/MIN)	US GAL. PER MINUTE (US GAL./MIN)
1.0000	0.0600	2.1189	0.0353	0.2200	0.2640
16.6670	1.0000	35.3147	0.5886	3.6660	4.4030
0.4720	0.0283	1.0000	0.0167	0.1040	0.1250
28.3170	1.6990	60.0000	1.0000	6.2290	7.4800
4.5460	0.2728	9.6326	0.1605	1.0000	1.2010
3.7850	0.2271	8.0209	0.1337	0.8330	1.0000
0.1100	0.0066	0.2339	0.0039	0.0240	0.0290

PRESSURE AND HEAD

NEWTONS PER SQUARE METER (N/M^2)	KILOPASCAL (KPA)	BAR (BAR)	POUND FORCE PER SQUARE INCH (PSI)	METER OF WATER ($M\ H_2O$)	MILLIMETER OF MERCURY (MM HG)
1.0000	0.0010	1×10^{5}	1.45×10^{-4}	1.02×10^{-4}	0.0075
1000.0000	1.0000	0.0100	0.1450	0.1020	7.5000
100000.0000	100.0000	1.0000	14.5000	10.2000	750.1000
98067.0000	98.0700	0.9810	14.2200	10.0000	735.6000
6895.0000	6.8950	0.0690	1.0000	0.7030	51.7200
2984.0000	2.9840	0.0300	0.4330	0.3050	22.4200
9789.0000	9.7890	0.0980	1.4200	1.0000	73.4200
133.3000	0.1330	0.0013	0.0190	0.0140	1.0000
3386.0000	3.3860	0.0338	0.4910	0.3450	25.4000

LENGTH

MILLIMETER (MM)	CENTIMETER (CM)	METER (M)	INCH (IN)	FOOT (FT)	YARD (YD)
1.0000	0.1000	0.0010	0.0394	0.0033	0.0011
10.0000	1.0000	0.0100	0.3937	0.0328	0.0109
1000.0000	100.0000	1.0000	39.3701	3.2808	1.0936
25.4000	2.5400	0.0254	1.0000	0.0833	0.0278
304.8000	30.4800	0.3048	12.0000	1.0000	0.3333
914.4000	91.4400	0.9144	36.0000	3.0000	1.0000

VOLUME

CUBIC METER (M^3)	LITER (LITER)	MILLILITER (ML)	IMP. GALLON (IMP. GAL.)	US GALLON (US GAL.)	CUBIC FOOT (FT^3)
1.0000	1000.0000	1×10^{6}	220.0000	264.2000	35.3147
0.0010	1.0000	1000.0000	0.2200	0.2642	0.0353
1×10^{6}	0.0010	1.0000	2.2×10^{4}	2.642×10^{4}	3.53×10^{5}
0.0045	4.5460	4546.0000	1.0000	1.2010	0.1605
0.0038	3.7850	3785.0000	0.8327	1.0000	0.1337
0.0283	28.3170	28317.0000	6.2288	7.4805	1.0000

TECHNICAL DATA – COMPATIBILITY CHART FOR MATERIALS IN CONTACT WITH MOST COMMONLY USED LIQUIDS

LIQUID	CONCENTRATION (%)	TEMP. MIN/ MAX °F	SPECIFIC WEIGHT (LB/IN³)	1, 3, 5, 10, 15, 22 e-SVI		RECOMMENDED SEAL	ELASTOMERS
				CI/304	316		
Water	100	23/194		•	•	Q_1Q_1EGG	E
Deionized, demineralized or distilled water	100	-13/194		•	•	Q_1Q_1EGG	E
Water and oil emulsion	any	23/194		•	•	Q_1BVGG	V
Acetic acid (•)	80	14/158	.038	•	•	Q_1Q_1EGG	E
Citric acid	5	14/158	.056	•	•	Q_1Q_1EGG	E
Hydrochloric acid	2	23/77	.043		•	Q_1Q_1VGG	V
Phosphoric acid	10	23/86	.048		•	Q_1Q_1EGG	E
Nitric acid (•)	50	23/86	.053	•	•	Q_1Q_1VGG	V
Sulphuric acid (•)	2	14/77	.066		•	Q_1BVGG	V
Tannic acid	20	32/122			•	Q_1Q_1EGG	E
Tartaric acid	50	14/77	.063	•	•	Q_1Q_1VGG	V
Uric acid	80	14/176	.068	•	•	Q_1Q_1EGG	E
Benzoic acid	70	32/158	.047	•	•	Q_1BVGG	V
Boric acid	Saturated	14/194	.052	•	•	Q_1Q_1VGG	V
Formic acid (•)	5	5/77	.044	•	•	Q_1Q_1EGG	E
Ethyl alcohol (•)	100	23/104	.029	•	•	Q_1Q_1EGG	E
Methyl alcohol (•)	100	23/104	.029	•	•	Q_1Q_1EGG	E
Propyl alcohol (•)	100	23/176	.029	•	•	Q_1Q_1EGG	E
Butyl alcohol	100	23/176	.030	•	•	Q_1BVGG	V
Denatured alcohol (•)	100	23/158	.030	•	•	Q_1Q_1EGG	E
Ammonia in water (•)	25	-4/122	.038	•	•	Q_1Q_1EGG	E
Chloroform		14/86	.053	•	•	Q_1BVGG	V
Caustic soda	25	32/158	.077	•	•	Q_1Q_1EGG	E
Water, detergents, mineral oils mixture		23/176		•	•	Q_1Q_1VGG	V
Cleaning products		23/212		•	•	Q_1Q_1VGG	V
Glycerine	100	68/194	.046	•	•	Q_1Q_1EGG	E
Sodium Hypochlorite	1	14/77			•	Q_1Q_1VGG	V
Phosphates/polyphosphates		23/194			•	Q_1Q_1VGG	V
Sodium nitrate	Saturated	14/176	.081	•	•	Q_1Q_1EGG	E
Cutting fluid	100	23/194	.033	•	•	Q_1BVGG	V
Peanut oil (•)	100	23/194	.034	•	•	Q_1Q_1EGG	E
Colza oil (•)	100	23/194	.034	•	•	Q_1Q_1EGG	E
Linseed oil (•)	100	23/194	.034	•	•	Q_1Q_1EGG	E
Coconut oil (•)	100	-4/194	.033	•	•	Q_1Q_1EGG	E
Soybean oil (•)	100	32/194		•	•	Q_1Q_1EGG	E
Diathermic oil	100	23/194	.033	•	•	Q_1BVGG	V
Hydraulic oil	100	23/194		•	•	Q_1BVGG	V
Mineral oil	100	23/194	.034	•	•	Q_1BVGG	V
Sodium sulfate	15	14/104	.094	•	•	Q_1Q_1EGG	E
Aluminum sulfate	30	23/122	.097		•	Q_1Q_1EGG	E
Ammonium sulfate	10	14/140	.064		•	Q_1Q_1EGG	E
Iron sulfate	10	23/86	.076		•	Q_1Q_1EGG	E
Copper sulfate	20	32/86	.082		•	Q_1Q_1VGG	V
Trichloroethylene		14/104	.053	•	•	Q_1BVGG	V
Perchlorethylene		14/86	.057	•	•	Q_1BVGG	V

Legend

Q_1 = Silicon carbide B = Impregnated carbon E = EPDM V = Viton G = AISI 316 (spring, metal components)

(•) A special version may be necessary for this fluid. For additional information, please contact our sales network.

Xylem |'zīləm|

1) The tissue in plants that brings water upward from the roots;
2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com

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