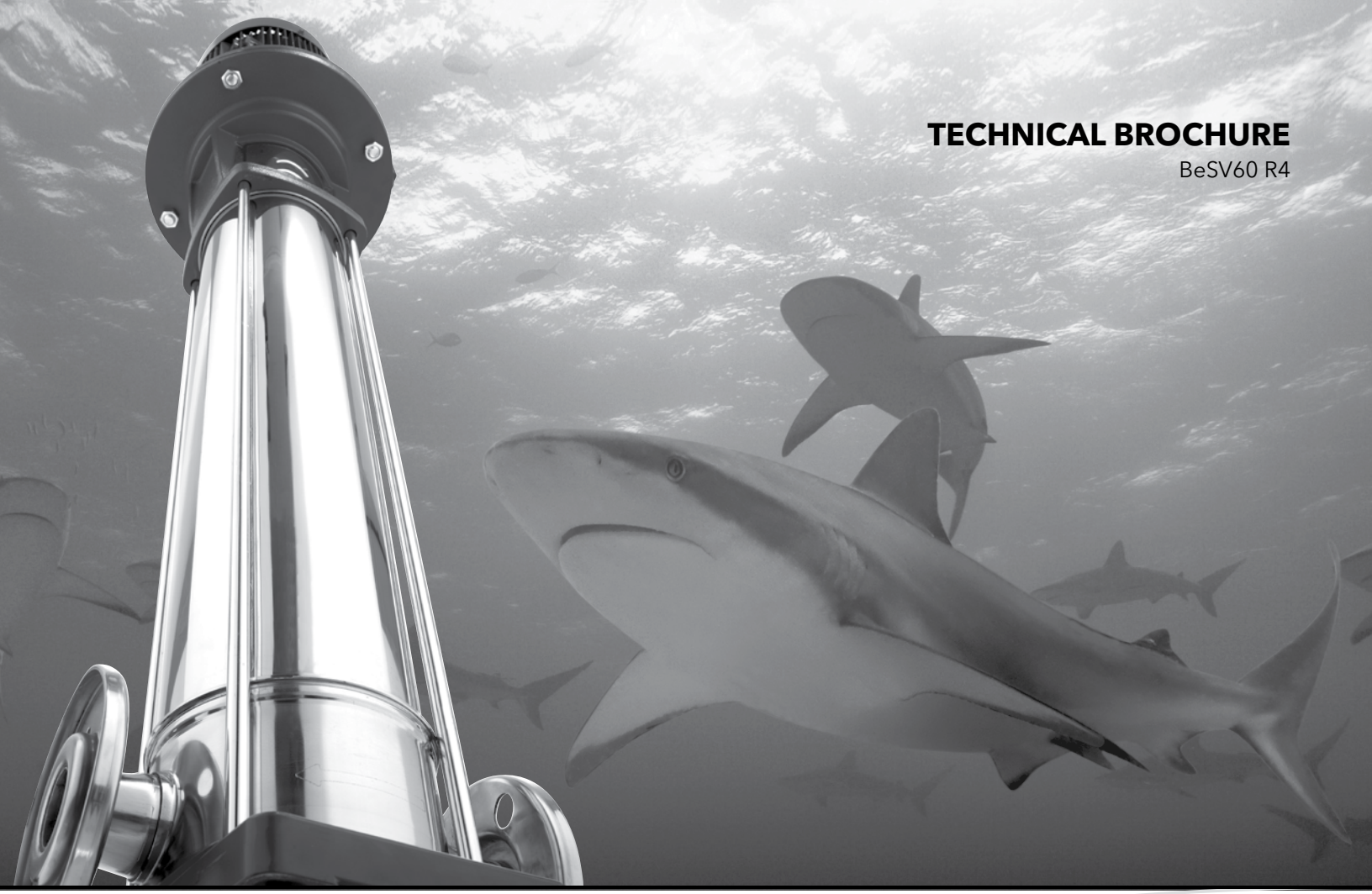


TECHNICAL BROCHURE
BeSV60 R4

e-SV™ 60 Hz Technical Manual

E-SV SERIES VERTICAL MULTI-STAGE PUMPS

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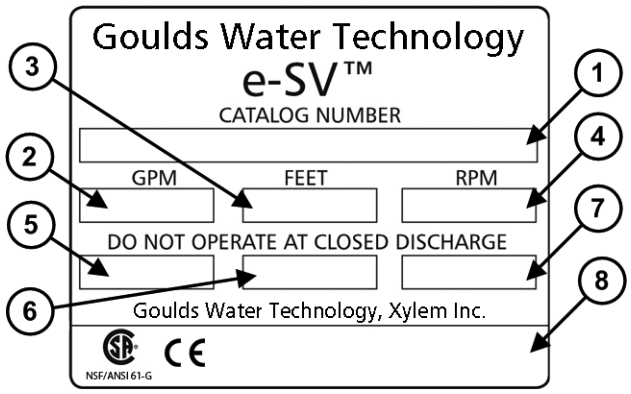
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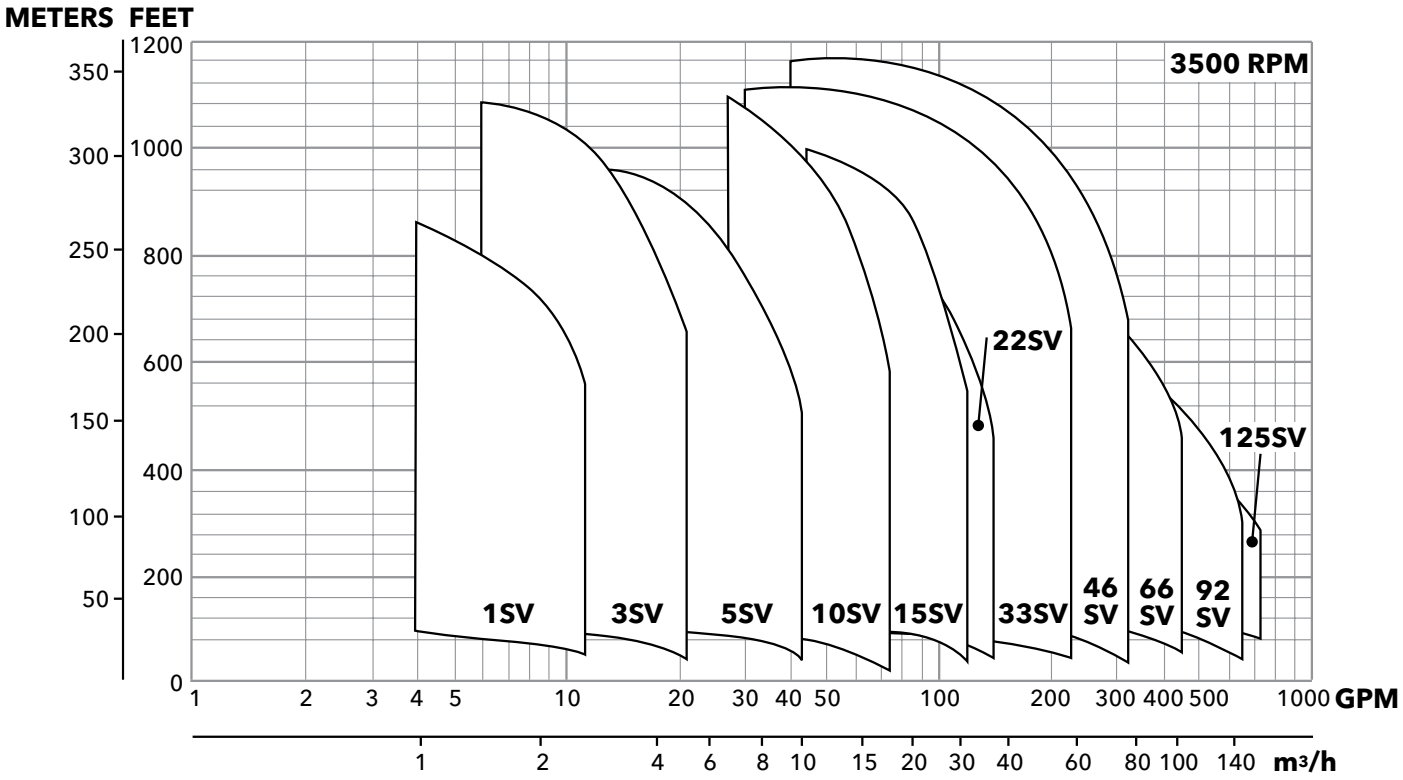
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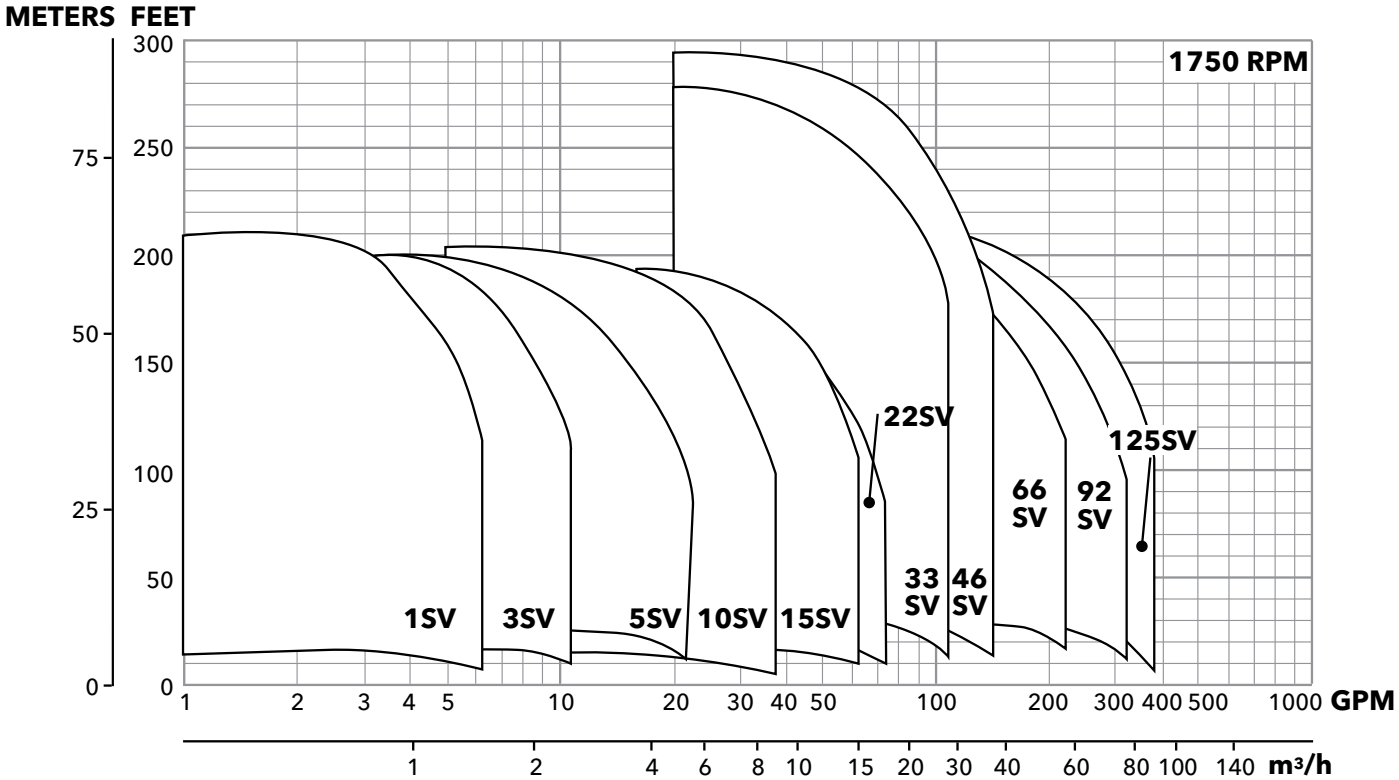
e-SV Rating Plate



1	Goulds Water Technology Catalog Number
2	Capacity Range
3	TDH Range
4	Rated Speed
5	Rated Horsepower
6	Maximum Operating Pressure
7	Maximum Operating Temperature
8	Pump Serial Number

e-SV Coverage Curve





e-SV General Market Specifications

MUNICIPAL, AGRICULTURAL, LIGHT INDUSTRY,
WATER TREATMENT, HEATING AND AIR CONDITIONING

Applications

- Handling of water, free of suspended solids, in the municipal, industrial and agricultural markets
- Pressure boosting and water supply systems
- Fire fighting jockey pumps
- Irrigation systems
- Wash systems
- Water treatment plants: reverse osmosis
- Handling of moderately aggressive liquids, demineralized water, water and glycol, etc.
- Circulation of hot and cold water for heating, cooling and conditioning systems
- Boiler feed

Specifications

PUMP

The e-SV pump is a non-self priming vertical multistage pump coupled to a standard motor.
The liquid end, located between the upper cover and the pump casing, is held in place by tie rods. The pump casing is available with different configurations and connection types.

- Delivery: up to 725 GPM
- Head: up to 1200 feet
- Temperature of pumped liquid:
  -20°F to 250°F (-30°C to 120°C) standard version
- Optional temperature range up to 300°F (149°C) high temperature version
- Maximum operating pressure
  – SV1-22 with oval flanges: 230 PSI (16 bar)
  – SV1-22 with round flanges or Victaulic: 360 or 575 PSI (25 or 40 bar)
  – SV33, 46: 360 or 580 PSI (25 or 40 bar)*
  – SV 66, 92: 360 or 580 PSI (25 or 40 bar)*
  – SV 125: 360 or 580 PSI (25 or 40 bar)
- Direction of rotation: clockwise looking at the pump from the top down (marked with an arrow on the adapter and on the coupling).

MOTOR

- Standard NEMA TC Frame motors in open drip proof or totally enclosed fan cooled.
- 3500 RPM nominal
- Standard voltage:
  - Single phase version: 115-208/230 V, 60 Hz up to 3 HP or 208-230 V for 5 HP
  - Three phase version, 2 pole: 208-230/460 V, 60 Hz up 75 HP

* Based on pump staging

e-SV Characteristics

1SV, 3SV, 5SV, 10SV, 15SV, 22SV Series

- Vertical multistage centrifugal pump. All metal parts in contact with the pumped liquid are made of stainless steel.
- The following versions are available:

  F – ANSI flanges, in-line delivery and suction ports, AISI 304

  T – Oval flanges (NPT), in-line delivery and suction ports, AISI 304

  R – ANSI flanges, delivery port above the suction port, with four adjustable positions, AISI 304

  N – ANSI flanges, in-line delivery and suction ports, AISI 316

  P – Victaulic couplings, in-line delivery and suction ports, AISI 316

  G – ANSI flange, in-line delivery and suction ports, Class 35/40B cast iron.

  C – ISO clamp, AISI 316

- Innovative axial load compensation system on pumps with higher head. This ensures reduced axial thrusts and enables the use of standard NEMA TC motors that are easily found in the market.
- Seal housing chamber designed to prevent the accumulation of air in the critical area next to the mechanical seal
- Mechanical seal according to EN 12756 (ex DIN 24960) and ISO 3069
- Versions with ANSI flanges that can be coupled to ANSI raised face counter-flanges
- Threaded oval counter-flanges made of stainless steel are standard supply for the T versions
- Easy maintenance. No special tools required for assembly or disassembly
- Standard version for temperatures ranging from: -20°F to 250°F (30°C to 120°C)

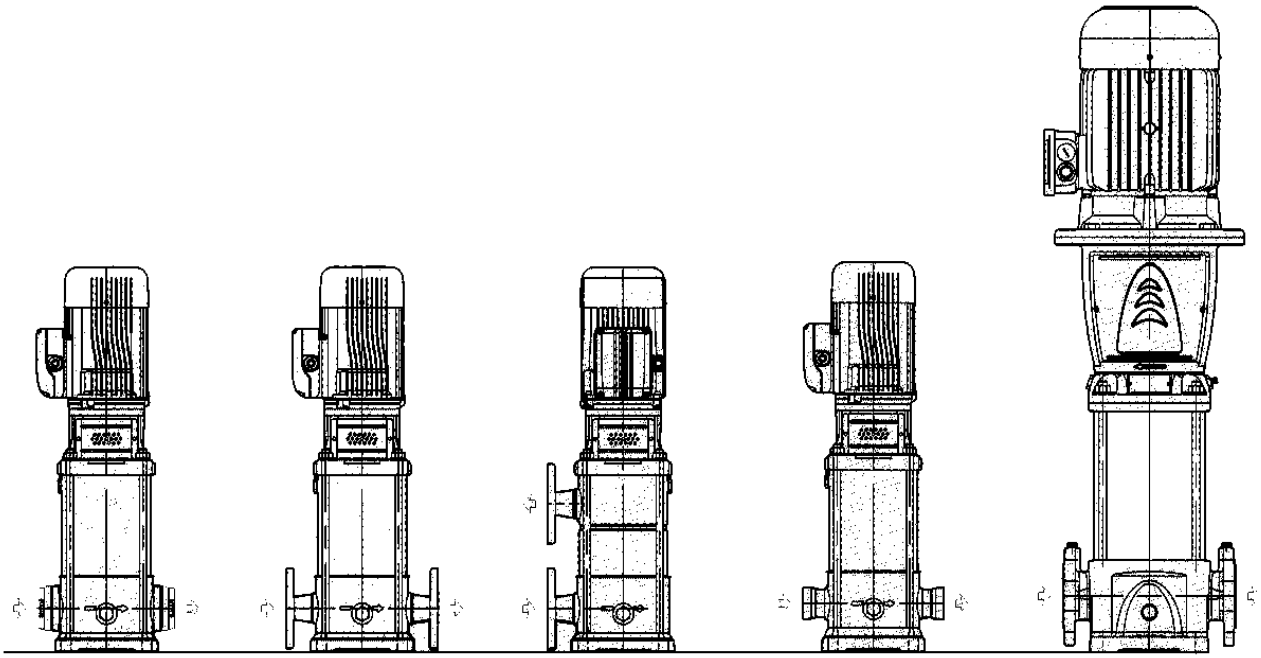
33SV, 46SV, 66SV, 92SV, 125SV Series

- Vertical multistage centrifugal pump with impellers, diffusers and outer sleeve made entirely of stainless steel, and with pump casing and motor adapter made of cast iron in the standard version
- Rotating components made entirely of AISI 316 stainless steel
- High heads and capacities five sizes: 33SV, 46SV, 66SV, 92SV, 125SV
- Re-designed liquid end provides improved efficiency and energy savings
- Innovative axial load compensation system on pumps with higher head. This ensures reduced axial thrusts and enables the use of standard NEMA TC motors that are easily found in the market.
- Balanced mechanical seal according to EN 12756 (ex DIN 24960) and ISO 3069, which can be replaced without removing the motor from the pump
- Seal housing chamber designed to prevent the accumulation of air in the critical area next to the mechanical seal
- Standard version for temperature ranging from: -20°F to 250°F (-30°C to 120°C)
- Pump body fitted with taps for installing pressure gauges on both suction and delivery flanges
- In-line ports with ANSI flanges that can be coupled to counter-flanges, in compliance with ANSI raised face.
- Mechanical sturdiness and easy maintenance. No special tools required for assembly or disassembly.

Optional Features

- Horizontal version
- Special voltages, 50 Hz frequency
- Special materials for the mechanical seal, gaskets and elastomers
- Tropicalized motors
- Premium E and explosion proof motors
- 1750 RPM, 4 pole motors
- Passivation

General Characteristics – 2-pole



SERIES SVT
1SV, 3SV, 5SV, 10SV, 15SV, 22SV

SERIES SVF, SVN
1SV, 3SV, 5SV, 10SV, 15SV, 22SV

SERIES SVR
1SV, 3SV, 5SV, 10SV, 15SV, 22SV

SERIES SVP
VICTAULIC
1SV, 3SV, 5SV, 10SV, 15SV, 22SV

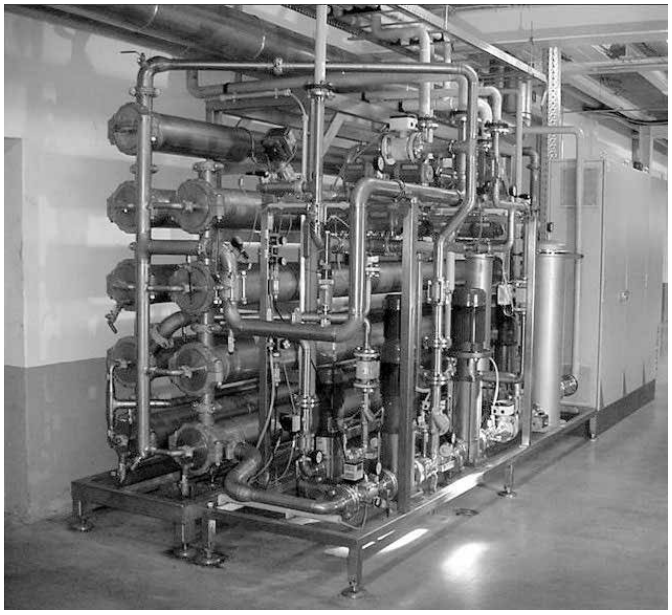
SERIES SVG, SVN
33SV, 46SV, 66SV, 92SV, 125SV

e-SV Product Range	1SV	3SV	5SV	10SV	15SV	22SV	33SV	46SV	66SV	92SV	125SV
Nominal Flow (GPM)	9	15	30	50	80	110	150	220	350	450	600
Flow Range(GPM)	2-12	3-22	7-45	9-75	18-125	21-150	30-195	45-285	70-420	90-580	120-700
Max. Head (Ft)	860	1085	975	1150	1060	880	1125	1210	850	715	570
Max. Working Pressure (PSIG)	580					360/580					
Temperature Range (°F)	Standard -20°F - 250°F (-30°C - 121°C)										
High Temp Option	up to 300°F (150°C)						-				
Motor Power [HP]	½ – 5 HP	½ – 7½	¾ – 10	¾ – 20	2 – 25	3 – 30	3 – 60	7½ – 75	10 – 75	15 – 75	20 – 75
Max Pump Efficiency	51%	60%	70%	70%	70%	71%	76%	78%	78%	80%	79%
Materials of Construction											
SVT	304 SS						-				
SVF	304 SS						-				
SVN	316L SS						Cast Stainless Steel / 316L SS				
SVR	304 SS						-				
SVP	316L SS						-				
SVC	316L SS						-				
SVG	ASTM Class 35/40B Cast Iron / 304 SS										
Connection Sizes											
SVT - Oval NPT	1¼"	1¼"	1¼"	2"	2"	2"	-				
SVF - Round ANSI Size/Class	1¼" 300#	1¼" 300#	1¼" 300#	2" 300#	2" 300#	2" 300#	-				
SVN - Round ANSI Size/Class	1¼" 300#	1¼" 300#	1¼" 300#	2" 300#	2" 300#	2" 300#	2½" 150/300#	3" 150/300#	4" 150/300#	4" 150/300#	5" 150/300#
SVR - Top/Bottom Round ANSI Size/Class	1¼" 300#	1¼" 300#	1¼" 300#	2" 300#	2" 300#	2" 300#	-				
SVP - Victaulic	1¼"	1¼"	1¼"	2"	2"	2"	-				
SVC - Clamp	1½"	1½"	1½"	2"	2"	2"	-				
SVG - Cast Iron Size/Class	1¼" 250#	1¼" 250#	1¼" 250#	2" 250#	2" 250#	2" 250#	2½" 125/250#	3" 125/250#	4" 125/ 250#	4" 125/ 250#	5" 125/250#

Typical Applications of e-SV Series Multi-Stage Pumps

Water Supply and Pressure Boosting

- Pressure boosting in buildings, hotels, residential complexes
- Pressure booster stations, supply of water networks
- Booster packages

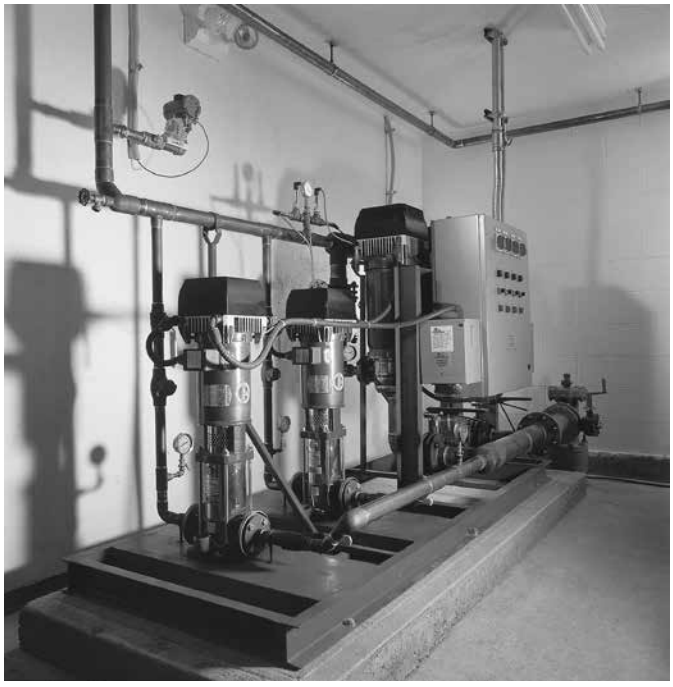


Water Treatment

- Ultra filtration systems
- Reverse osmosis systems
- Water softeners and de-mineralization
- Distillation systems
- Filtration

Light Industry

- Washing and cleaning plants (washing and degreasing of mechanical parts, car and truck wash tunnels, washing of electronic industry circuits)
- Commercial washers
- Fire fighting system pumps



Irrigation and Agriculture

- Greenhouses
- Humidifiers
- Sprinkler irrigation

Heating, Ventilation and Air Conditioning (HVAC)

- Cooling towers and systems
- Temperature control systems
- Refrigerators
- Induction heating
- Heat exchangers
- Boilers
- Water recirculation and heating





e-SV Product Line
Numbering System for 1 – 22SV Liquid End Only

The various versions of the e-SV line are identified by a product code number on the pump label. This number is also the catalog number for the pump. The meaning of each digit in the product code number is shown below.
Note: Not all combinations are possible.

Example Product Code

22 SV 0 2 F E 3 0

Special Configurations (optional Characters)
A = Cooling Chamber only
B = Cooling Chamber + Passivation
C = Cooling Chamber + Low NPSH
F = Destaged - 1 stage
G = Destaged - 2 stage
H = Horizontal mount only
J = Horizontal mount + Passivation
K = Horizontal mount + Low NPSH
L = Horizontal mount + High Pressure
M = i-Alert (standard for 10 HP units and greater)
N = Low NPSH only
P = Passivation only
Z = High pressure only

Seal Material
0 = Carb-SilCar-Viton (Standard)
1 = Carb-SilCar-AFLAS (HighTemp)
2 = SilCar-SilCar-Viton
4 = SilCar-SilCar-EPR
6 = Carb-SilCar-EPR

Pole-Hz
1 = 2–50 3 = 2–60
2 = 4–50 4 = 4–60

Motor Frame (NEMA)
A = 56C D = 250TC
B = 180TC E = 280TC
C = 210TC

Configuration
C = Clamp-316 P = Victaulic-316
F = Round-304 (SVB) T = Oval-304 (SVA)
G = CI-304
N = Round-316 (SVD)

Suction discharge location — Top / Bottom
R = (SVC) 12Suct-12Disch
W = (SVC) 12Suct-03Disch
X = (SVC) 12Suct-06Disch
Y = (SVC) 12Suct-09Disch

Total Number of Impeller Stages (may be 1 or 2 characters)

Product Line:
SV – Stainless Vertical

Nominal Flow:
1 = 5 GPM 10 = 53 GPM
3 = 16 GPM 15 = 80 GPM
5 = 26 GPM 22 = 116 GPM

e-SV Product Line
Numbering System for 33 – 125SV Liquid End Only

The various versions of the e-SV line are identified by a product code number on the pump label. This number is also the catalog number for the pump. The meaning of each digit in the product code number is shown below.
Note: Not all combinations are possible.

Example Product Code

125 SV 8 1 2 B F E 2 0

Special Configurations (optional Characters)
F = Destaged - 1 stage (33 and 46 only)
G = Destaged - 2 stage (33 and 46 only)
H = Horizontal mount only
J = Horizontal mount + Passivation
K = Horizontal mount + Low NPSH (33, 46 and 66 only)
L = Horizontal mount + High Pressure
M = i-Alert (standard for 10 HP units and greater)
N = Low NPSH only (33, 46 and 66 only)
Z = High pressure (250/300# pump body)

Seal Material
0 = Carb-SilCar-Viton
2 = SilCar-SilCar-Viton
4 = SilCar-SilCar-EPR
6 = Carb-SilCar-EPR
7 = Carb-SilCar-Viton (Cart)
8 = SilCar-SilCar-EPR (Cart)

Pole-Hz
1 = 2–50 3 = 2–60
2 = 4–50 4 = 4–60

Motor Frame (NEMA)
B = 180TC E = 280TC
C = 210TC F = 320TSC
D = 250TC G = 360TSC

Configuration
G = Round-CI-304
N = Round-316

125SV ONLY
Reduced Trim Diameter A = 141 mm B = 136 mm C = 145 mm (full dia.)
Blank if 33-92SV

Number of Reduced Trim Impellers

Total Number of Impellers/Stages

Product Line: SV – Stainless Vertical

Nominal Flow:
33 = 175 GPM
46 = 240 GPM
66 = 350 GPM
92 = 485 GPM
125 = 660 GPM

e-SV Product Line
Numbering System for 1 – 22SV Pump & Motor Combination

The various versions of the e-SV line are identified by a product code number on the pump label. This number is also the catalog number for the pump. The meaning of each digit in the product code number is shown below.
Note: Not all combinations are possible.

Example Product Code

2 SV 2 2 F A 2 F 5 1 A H

Special Configurations (1 or 2 Characters)

A = Cooling Chamber only	K = Horizontal mount + Low NPSH
B = Cooling Chamber + Passivation	L = Horizontal mount + High Pressure
C = Cooling Chamber + Low NPSH	M = i-Alert (standard for 10 HP units and greater)
F = Destaged - 1 stage	N = Low NPSH only
G = Destaged - 2 stage	P = Passivation only
H = Horizontal mount only	Z = High Press (250/300# pump body)
J = Horizontal mount + Passivation	

Seal Material

0 = Carb-SilCar-Viton	4 = SilCar-SilCar-EPR
1 = Carb-SilCar-AFLAS (HighTemp)	6 = Carb-SilCar-EPR
2 = SilCar-SilCar-Viton	

Motor Enclosure

1 = ODP	7 = Prem-XP
2 = TEFC	8 = Prem-WD
3 = X-Proof	9 = Marine
4 = WD - Tropical	A = Chem
5 = Prem-ODP	B = Prem-Chem
6 = Prem-TEFC	

Voltage

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

Pole-Hz-Phase

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

HP Rating

A = 0.50	H = 7.5
B = 0.75	J = 10
C = 1.00	K = 15
D = 1.50	L = 20
E = 2	M = 25
F = 3	N = 30
G = 5	P = 40

Configuration OPTION

		Top / Bottom
C = Clamp-316		
F = Round-304 (SVB)	R =	(SVC) 12Suct-12Disch
G = CI-304	W =	(SVC) 12Suct-03Disch
N = Round-316 (SVD)	X =	(SVC) 12Suct-06Disch
P = Victaulic-316	Y =	(SVC) 12Suct-09Disch
T = Oval-304 (SVA)		

Suction discharge location

Total Number of Impeller Stages (may be 1 or 2 characters)

Product Line:
SV – Stainless Vertical

Nominal Flow:

1 = 5 GPM	10 = 53 GPM
3 = 16 GPM	15 = 80 GPM
5 = 26 GPM	22 = 116 GPM

e-SV Product Line
Numbering System for 33 – 125SV Pump & Motor Combination

The various versions of the e-SV line are identified by a product code number on the pump label. This number is also the catalog number for the pump. The meaning of each digit in the product code number is shown below.
Note: Not all combinations are possible.

Example Product Code

125 SV 8 2 A G K 3 F 2 0 _ _

Special Configurations (1 or 2 Characters)

F = Destaged - 1 stage (33 and 46 only)	L = Horizontal mount + High Pressure
G = Destaged - 2 stage (33 and 46 only)	M = i-Alert (standard for 10 HP units and greater)
H = Horizontal mount only	N = Low NPSH only (33, 46 and 66 only)
J = Horizontal mount + Passivation	P = Passivation only
K = Horizontal mount + Low NPSH	Z = High Press (250/300# pump body/Casing)

Seal Material

0 = Carb-SilCar-Viton	6 = Carb-SilCar-EPR
2 = SilCar-SilCar-Viton	7 = Carb-SilCar-Viton (Cart)
4 = SilCar-SilCar-EPR	8 = SilCar-SilCar-EPR (Cart)

Motor Enclosure

1 = ODP	5 = Prem-ODP	9 = Marine
2 = TEFC	6 = Prem-TEFC	A = Chem
3 = X-Proof	7 = Prem-XP	B = Prem-Chem
4 = WD - Tropical	8 = Prem-WD	

Voltage

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

Pole-Hz-Phase

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

HP Rating

F = 3	M = 25
G = 5	N = 30
H = 7.5	P = 40
J = 10	R = 50
K = 15	S = 60
L = 20	T = 75

Configuration

G = Round-CI-304
N = Round-316

125SV ONLY

Reduced Trim Diameter A = 141 mm B = 136 mm C = 145 mm (full dia.)
Blank if 33-92SV

Number of Reduced Trin Impeller

Total Number of Impeller Stages (may be 1 or 2 characters)

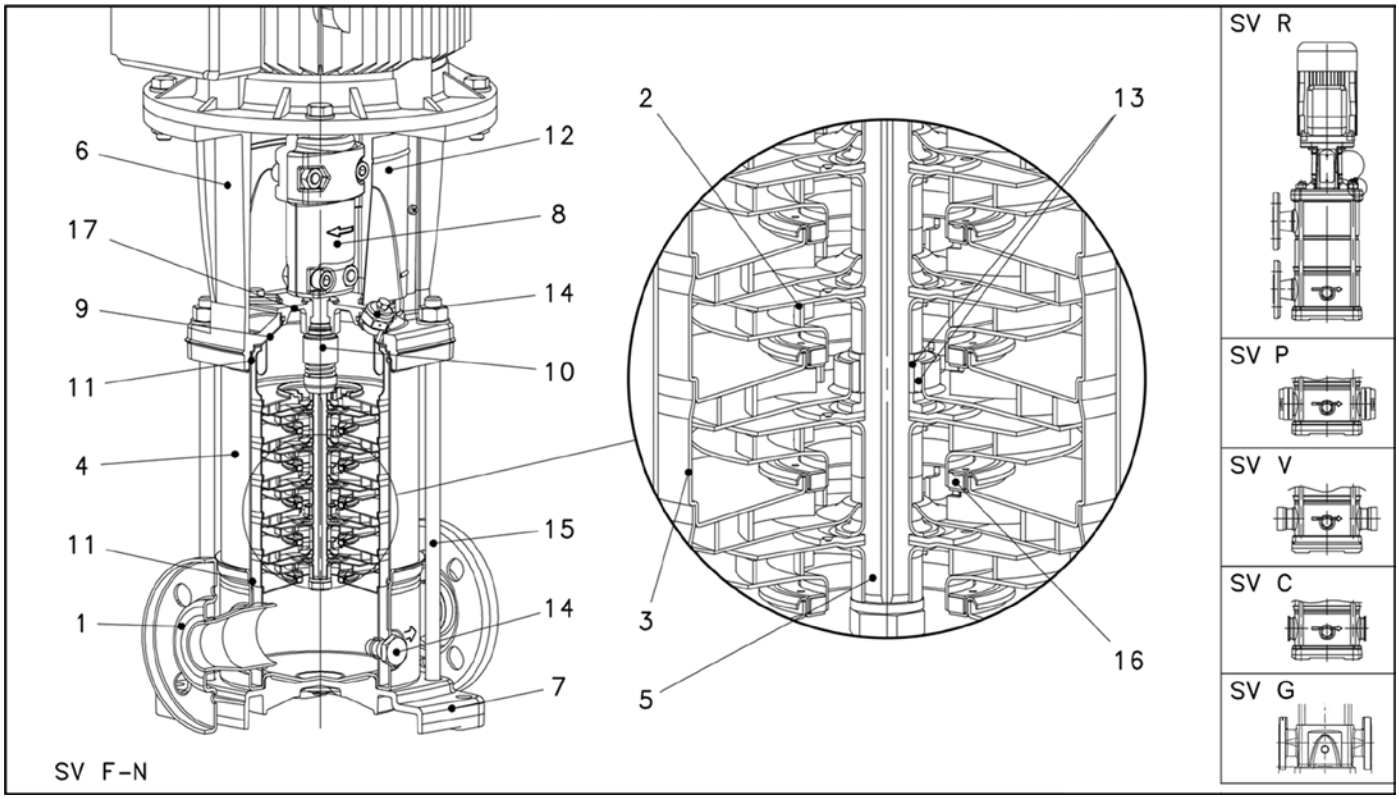
Product Line:

SV – Stainless Vertical

Nominal Flow:

33 = 175 GPM	92 = 485 GPM
46 = 240 GPM	125 = 660 GPM
66 = 350 GPM	

Base Models: 1-22SV – Major Components



Base Models: 1-22SV – Major Components

F, G, P, R VERSIONS

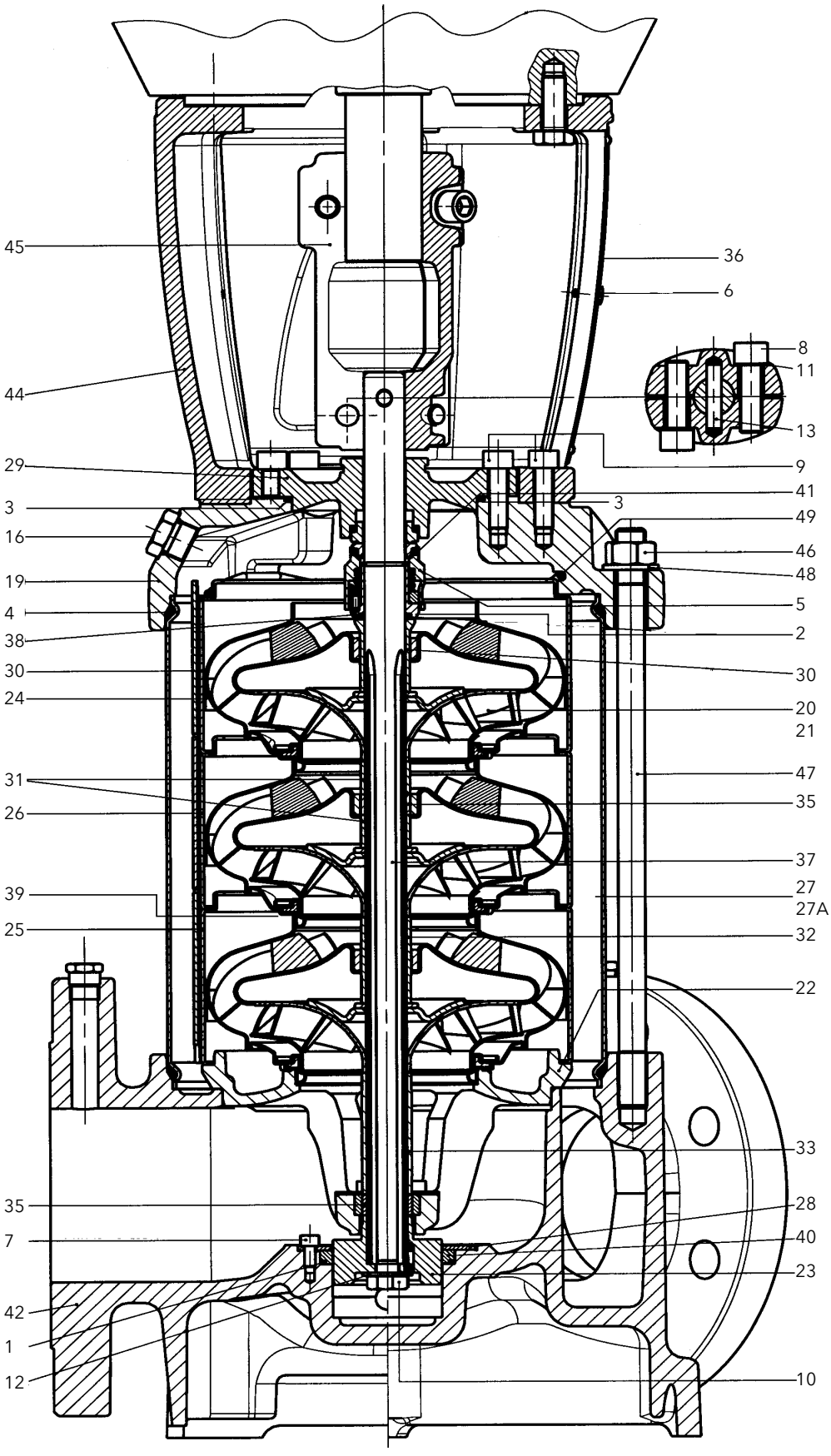
Ref. No.	Name	Material	Reference Standards	
			USA	Europe
1	Pump Body	Stainless Steel (F, P, R)	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
		Cast Iron (G)	ASTM Class 35/40B	EN 1561 GJL 250 (JL1040)
2	Impeller	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
3	Diffuser	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
4	Casing	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
5	Shaft	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
6	Adapter	Cast Iron	ASTM Class 35/40B	EN 1561-GJL-250 (JL1040)
7	Base	Aluminum (F, P, R)	A384.0-F	EN 1706-AC-AlSi11Cu2(Fe) (AC46100)
		N/A (G)	N/A	N/A
8	Coupling	Aluminum	A384.0-F	EN 1706-AC-AlSi11Cu2(Fe) (AC46100)
9	Seal Plate	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNi17-12-2 (1.4404)
10	Mechanical Seal	Silicon Carbide / Carbon / Viton (opt. EPDM)		
11	Elastomers	Viton (opt. EPDM)		
12	Coupling Guard	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
13	Shaft Sleeve and Bushing	Tungsten Carbide		
14	Fill/Drain Plugs	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
15	Tie Rods	Carbon Steel / Zinc Plated	A29 Gr. 1045	EN 10277
16	Wear Ring	PPS		
17	Seal Gland	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)

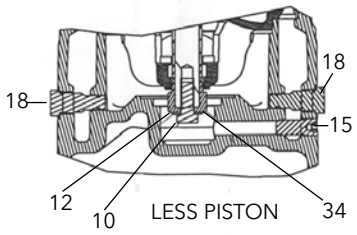
N, P, C VERSIONS

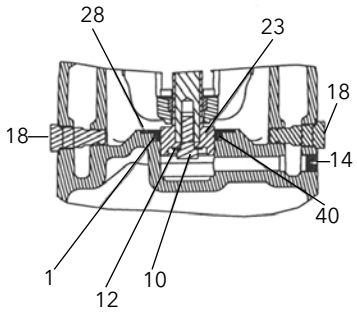
Ref. No.	Name	Material	Reference Standards	
			USA	Europe
1	Pump Body	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
2	Impeller	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
3	Diffuser	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
4	Casing	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
5	Shaft	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
6	Adapter	Cast Iron	ASTM Class 35/40B	EN 1561-GJL-250 (JL1040)
7	Base	Aluminum	A384.0-F	EN 1706-AC-AlSi11Cu2(Fe) (AC46100)
8	Coupling	Aluminum	A384.0-F	EN 1706-AC-AlSi11Cu2(Fe) (AC46100)
9	Seal Plate	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNi17-12-2 (1.4404)
10	Mechanical Seal	Silicon Carbide / Carbon / Viton (opt. EPDM)		
11	Elastomers	Viton (opt. EPDM)		
12	Coupling Guard	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
13	Shaft Sleeve and Bushing	Tungsten Carbide		
14	Fill/Drain Plugs	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
15	Tie Rods	Carbon Steel / Zinc Plated	A29 Gr. 1045	EN 10277
16	Wear Ring	PPS		
17	Seal Gland	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)

Base Model: 33SV, 46SV, 66SV and 92SV – Major Components

SV G-N



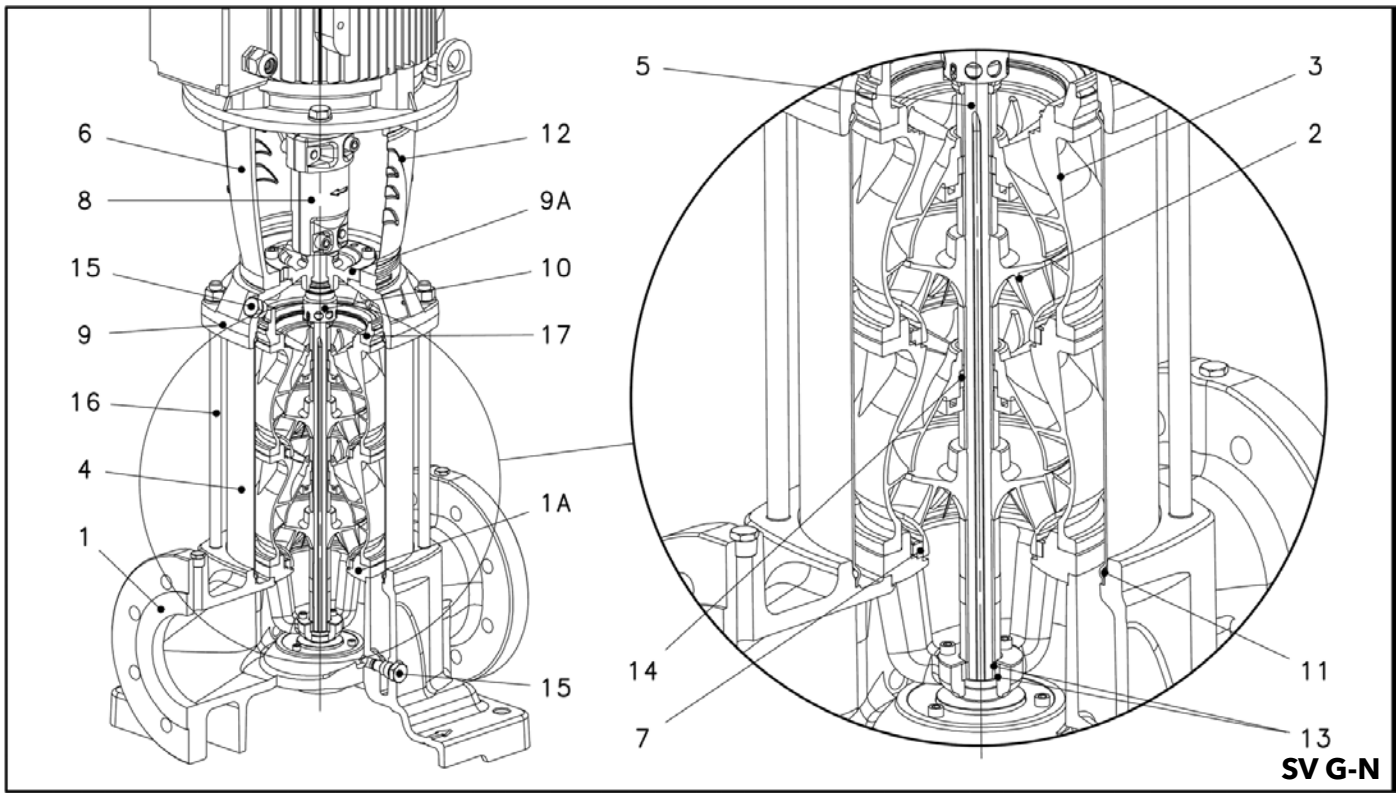




Base Model: 33SV, 46SV, 66SV and 92SV – Major Components

No.	Description	SVG (33 - 92SV)			SVN (33 - 92SV)		
		Material	ASTM	DIN	Material	ASTM	DIN
1	O-Ring, Piston Seal	Viton (std) EPDM (opt)			Viton (std) EPDM (opt)		
2	O-Ring, Mechanical Seal Sleeve	Viton (std) EPDM (opt)			Viton (std) EPDM (opt)		
3	O-Ring, Seal housing	Viton (std) EPDM (opt)			Viton (std) EPDM (opt)		
4	O-Ring, Sleeve	Viton (std) EPDM (opt)			Viton (std) EPDM (opt)		
5	Mechanical Seal	See Seal Materials Chart for Complete Detail			See Seal Materials Chart for Complete Details		
5A	Cartridge Seal (not shown)						
6	Screw, Guard	Stainless Steel	A193-304	1.4301	Stainless Steel	A193-304	1.4301
7	Screw, Piston Holding Disc	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
8	Screw, Coupling	Zinc Plated Steel	B363		Zinc Plated Steel	B633	
9	Screw, MA and Seal Housing	Zinc Plated Steel	B633		Zinc Plated Steel	B633	
10	Screw, Impeller	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
11	Washer, Coupling	Carbon Steel	A108		Carbon Steel	A108	
12	Washer, Impeller	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
13	Pin, Coupling	Carbon Steel	A108		Carbon Steel	A108	
14	Plug, with Piston	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
15	Plug, without Piston	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
16	Plug, Fill	Stainless Steel/O-Ring	A193-316	1.4401	Stainless Steel/O-Ring	A193-316	1.4401
17	Plug, Vent (not shown)	Stainless Steel/O-Ring	A193-316	1.4401	Stainless Steel/O-Ring	A193-316	1.4401
18	Plug, Drain	Stainless Steel/O-Ring	A193-316	1.4401	Stainless Steel/O-Ring	A193-316	1.4401
19	Pump Head	Cast Iron	A48 Class 35	JL1030	Stainless Steel	316 CF8M	1.4408
20	Impeller, Full Diameter	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
21	Impeller, Reduced Diameter	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
22	Lower Bearing Assembly	SS/Cast Iron	A193-316L/A48 Class 35	1.4404/JL1030	Stainless Steel	A193-316L/316 CF8M	1.4404/1.4408
23	Piston	Duplex SS	A182-F51	1.4462	Duplex SS	A182-F51	1.4462
24	Diffuser, Final	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
25	Diffuser with Carbon Bushing	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
26	Diffuser with Tungsten Bushing	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
27	Outer Sleeve, 25 Bar	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
27A	Outer Sleeve, 40 Bar	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
28	Holding Disc, Piston Seal	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
29	Seal Housing	Cast Iron	A48 Class 35	JL1030	Stainless Steel	316 CF8M	1.4408
30	Spacer, Impeller Final	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
31	Spacer, Shaft Bushing	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
32	Spacer, Impeller	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
33	Spacer, Impeller Lower (66-92SV)	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
34	Bushing, Non-Piston	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
35	Tungsten Carbide Bushing	Tungsten Carbide			Tungsten Carbide		
36	Coupling Guard	Stainless Steel	A193-304	1.4301	Stainless Steel	304	1.4301
37	Shaft	Duplex SS	A182-F51	1.4462	Duplex SS	A183-F51	1.4462
38	Mechanical Seal Shaft Sleeve	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
39	Wear Ring, Impeller	PPS Glass Filled			PPS Glass Filled		
40	Piston Seal	Impregnated Carbon			Impregnated Carbon		
41	Stop Ring, Impeller	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
42	Pump Body	Cast Iron	A48 Class 35	JL1030	Stainless Steel	316 CF8M	1.4408
43	Motor Adapter Plate (not shown)	Cast Iron	A48 Class 25	JL1030	Cast Iron	A48 Class 25	JL1030
44	Motor Adapter	Cast Iron	A48 Class 25	JL1030	Cast Iron	A48 Class 25	JL1030
45	Coupling, Half	Cast Iron	A48 Class 25	JL1030	Cast Iron	A48 Class 25	JL1030
46	Nut, Tie-Rod	Zinc Plated Steel	B633		Zinc Plated Steel	B633	
47	Tie-Rod	Zinc Plated Steel	B633		Zinc Plated Steel	B633	
48	Washer, Tie-Rod	Zinc Plated Steel	B633		Zinc Plated Steel	B633	
49	Spring, Final Diffuser	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401

Base Models: 125SV – Major Components



Base Models: 125SV – Major Components

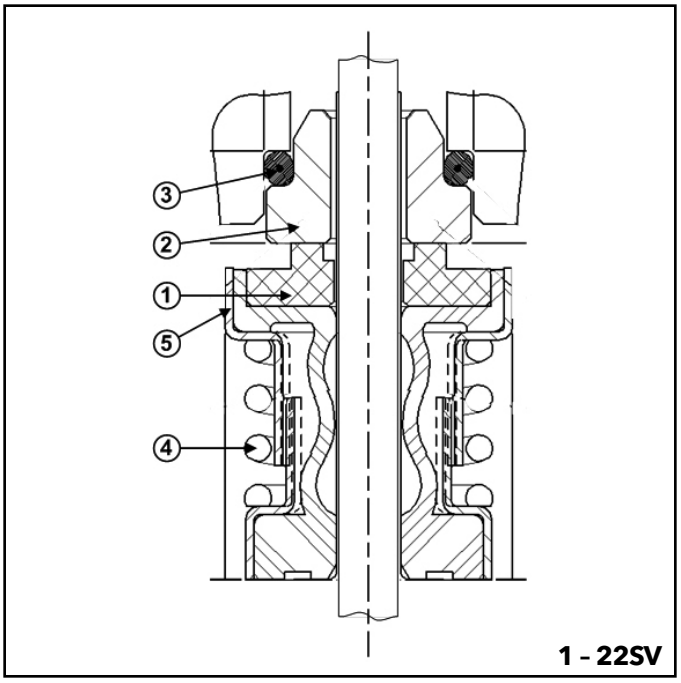
G VERSIONS

Ref. No.	Name	Material	Reference Standards	
			USA	Europe
1	Pump Body	Cast Iron	ASTM Class 35/40B	EN 1561-GJL-250 (JL1040)
2	Impeller	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
3	Diffuser	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
4	Casing	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
5	Shaft	Duplex Stainless Steel	UNS S 31803	EN 10088-1-X17-CrNiMoN22-5-3 (1.4507)
6	Adapter (up to 40HP)	Cast Iron	ASTM Class 25	EN 1561-GJL-200 (JL1040)
	Adapter (50HP and higher)		ASTM Class A536	EN 1561-GJL-500-7 (JS1050)
7	Wear Ring	PPS		
8	Coupling (up to 40HP)	Cast Iron	A384.0-F	EN 1706-AC-AlSi11Cu2(Fe) (AC46100)
	Coupling (50HP and higher)			
9-9A	Upper Head / Seal Housing	Cast Iron	ASTM Class 35/40B	EN 1561-GJL-250 (JL1040)
10	Mechanical Seal	Silicon Carbide / Carbon / Viton (opt. EPDM)		
11	Elastomers	Viton (opt. EPDM)		
12	Coupling Guard	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
13	Shaft Sleeve and Bushing	Tungsten Carbide		
14	Bushing for Diffuser	Carbon		
15	Fill/Drain Plugs	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
16	Tie Rods	Carbon Steel / Zinc Plated	A29 Gr. 1045	EN 10277
17	Adapter Ring	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)

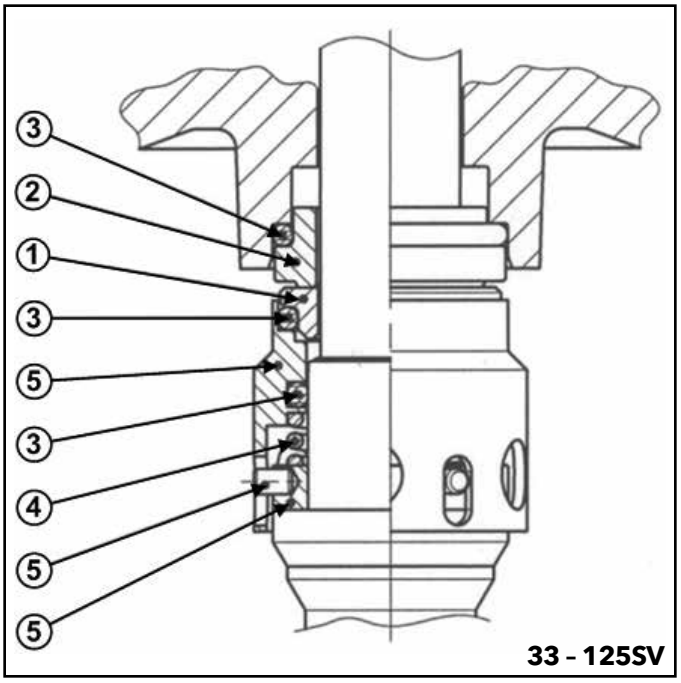
N VERSIONS

Ref. No.	Name	Material	Reference Standards	
			USA	Europe
1	Pump Body	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
2	Impeller	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
3	Diffuser	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
4	Casing	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
5	Shaft	Duplex Stainless Steel	UNS S 31803	EN 10088-1-X17-CrNiMoN22-5-3 (1.4507)
6	Adapter (up to 40HP)	Cast Iron	ASTM Class 25	EN 1561-GJL-200 (JL1040)
	Adapter (50HP and higher)		ASTM Class A536	EN 1561-GJL-500-7 (JS1050)
7	Wear Ring	PPS		
8	Coupling (up to 40HP)	Cast Iron	A384.0-F	EN 1706-AC-AlSi11Cu2(Fe) (AC46100)
	Coupling (50HP and higher)			
9-9A	Upper Head / Seal Housing	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
10	Mechanical Seal	Silicon Carbide / Carbon / Viton (opt. EPDM)		
11	Elastomers	Viton (opt. EPDM)		
12	Coupling Guard	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
13	Shaft Sleeve and Bushing	Tungsten Carbide		
14	Bushing for Diffuser	Carbon		
15	Fill/Drain Plugs	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
16	Tie Rods	Carbon Steel / Zinc Plated	A29 Gr. 1045	EN 10277
17	Adapter Ring	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)

e-SV Mechanical Seals



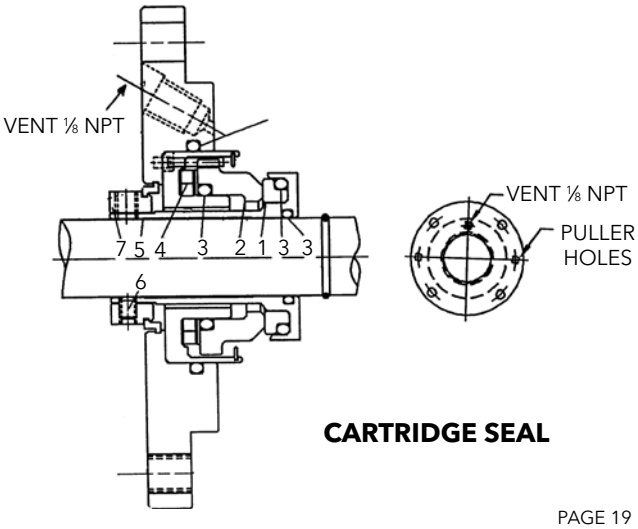
1 - 22SV



33 - 125SV

Pump	Code	Rotating Face 1	Stationary Face 2	Elastomers 3	Spring 4	Metal Components 5	Elastomer Temp Limits °F (°C)	Seal Temp Limits °F (°C)	Max. Working Pressure	Application
1SV thru 22SV	0	Carbon	Silicon Carbide Graphite Filled	Viton	316SS	316SS	-14 - 392°F (-10 - 200°C)	-22 - 250°F	580 psi (40 bar)	General Service
	2	Silicon Carbide Graphite Filled								Severe Duty
	4			EPR			-30 - 300°F (-34 - 150°C)			Severe Duty Boiler Feed
	6	Carbon								General Service Boiler Feed
	1	FDA Grade Carbon		AFLAS			-14 - 392°F (-10 - 200°C)	up to 300°F (149°C)	255 psi (17.6 bar)	Boiler Feed
33SV thru 125SV	0	Carbon	Silicon Carbide Graphite Filled	Viton	316SS	316SS	-14 - 392°F (-10 - 200°C)	-22 - 250°F (-30 - 120°C)	580 psi (40 bar)	General Service
	2	Silicon Carbide Graphite Filled								Severe Duty
	4			EPR			-22 - 250°F (-30 - 120°C)			Severe Duty Boiler Feed
	6	Carbon								General Service Boiler Feed

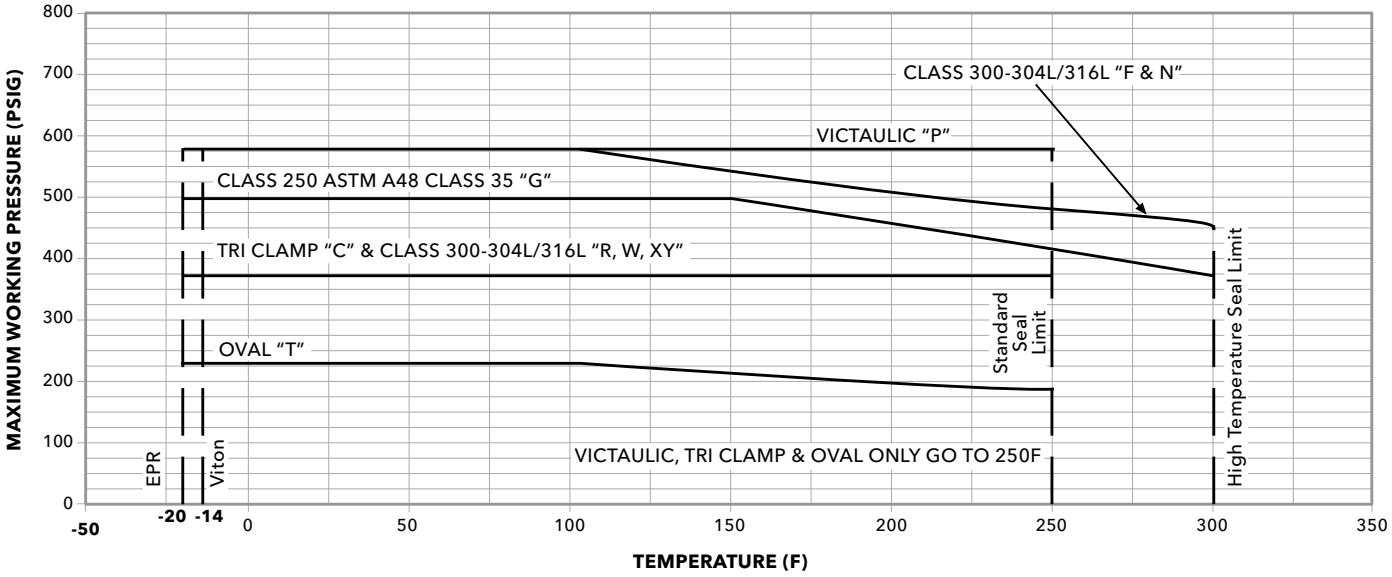
Pump	Rotating Face 1	Stationary Face 2	Elastomers 3	Spring 4	Sleeve 5	Set Screw 6	Locking Collar
33SV	Silicon Carbide	Carbon	Viton	316SS	316SS	300SS	316SS
46SV							
66SV		Silicon Carbide	EPR				
92SV							



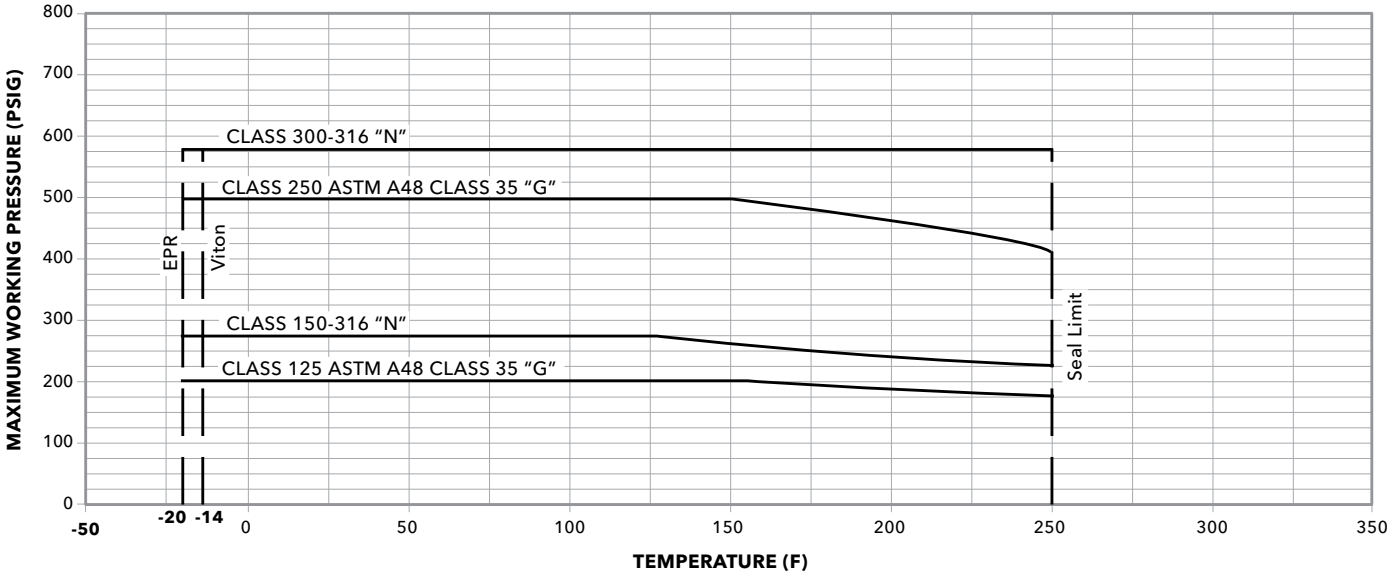
CARTRIDGE SEAL

Maximum Allowable Working Pressure Charts

1SV-22SV

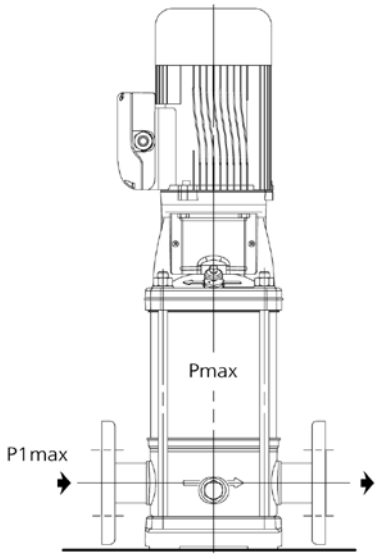


33SV-125SV



Maximum Inlet Pressure

The following table shows the maximum permissible inlet pressure. However, the actual inlet pressure + pressure against a closed valve must always be lower than the maximum permissible operating pressure.



$p_{1max} \leq PN - pmax$

Having the following meaning of the symbols:

p_{max} = Maximum pressure delivered by the pump

p_{1max} = Maximum inlet pressure

PN = Maximum operating pressure

Motor Data – Starts per Hour / Minimum Run Time

HP	Maximum Starts per Hour*	Minimum run time between starts (seconds)
0.5	24	120
0.75	24	120
1	15	75
1.5	13	76
2	12	77
3	9	30
5	8	83
7.5	7	88
10	6	92
15	5	100
20	5	110
25	5	115
30	4	120
40	4	130
50	3	145
60	3	170
75	3	180

NOTE(S)

1) Recommended motor starts per hour and minimum run time calculated based on NEMA standards MG1-12.44 in accordance to manufacturers allowable tolerance for heat rise and insulation breakdown.
2) Applied voltage and frequency in accordance with NEMA MG1-12.44
3) Starts based on NEMA three phase design A and design B AC induction motors.
4) External load WK2 is equal to or less than the values listed in NEMA MG1-12.54
5) Applicable to all NEMA (JM, JP, T and TC frame) motors used for Goulds Water Technology products.
6) Applicable to three phase motors only.

Motor Data

3500 RPM, 60Hz

HP	Phase	Enclosure	Voltage	SF	NEMA Frame	Speed / Pole	
						3500 / 2	1750 / 4
½	1	ODP	115/208-230	1.25	56C	V04721	V04711
		TEFC	115/208-230	1.25	56C	V04722	V04712
	3	ODP	208-230/460	1.25	56C	V04741	V04A34E1BB3S
			575			V04779	V04739
		TEFC	208-230/460	1.25	56C	V04742	V04A34E2BB3S
			575			V04789	V04749
		XP	208-230/460	1.00	56C	V04743	V04A34E3BB1S
			575			V04A32H3BB1S	V04A34H3BB1S
		TEPE	208-230/460	1.25	56C	V04A32E5BB3S	V04A34E5BB3S
		DPPE	208-230/460	1.25	56C	V04A32E4BB3S	V04A34E4BB2S
¾	1	ODP	115/208-230	1.25	56C	V05721	V05711
		TEFC	115/208-230	1.25	56C	V05722	V05712
	3	ODP	208-230/460	1.25	56C	V05741	V05731
			575			V05779	V05A34H1BB3S
		TEFC	208-230/460	1.25	56C	V05742	V05732
			575			V05789	V05749
		XP	208-230/460	1.00	56C	V05743	V05A34E3BB1S
			575			V05A32H3BB1S	V05A34H3BB1S
		TEPE	208-230/460	1.25	56C	V05742PE	V05A34E5BB2S
		DPPE	208-230/460	1.25	56C	V05A32E4BB2S	V05A34E4BB2S
1	1	ODP	115/208-230	1.25	56C	V06721	V06711
		TEFC	115/208-230	1.25	56C	V06722	V06A14B2BB2S
	3	ODP	208-230/460	1.25	56C	V06741	V06731
			575			V06779	V06A34H1BB3S
		TEFC	208-230/460	1.25	56C	V06742	V06732
			575			V06789	V06749
		XP	208-230/460	1.00	56C	V06743	V06A34E3BB2S
			575			V06A32H3BB1S	V06A34H3BB1S
		DPPE	208-230/460	1.25	56C	V06A32E4BB2S	V06A34E4BB2S
			575			V06A32H4BB3S	V06A34H4BB3S
		TEPE	208-230/460	1.25	56C	V06742PE	V06A34E5BB2S
			575			V06A32H5BB3S	V06A34H5BB3S
1½	1	ODP	115/208-230	1.15	56C	V07721	V07711
		TEFC	115/208-230	1.15	56C	V07722	V07712
	3	ODP	208-230/460	1.15	56C	V07741	V07731
			575			V07779	V07A34H1BB2S
		TEFC	208-230/460	1.15	56C	V07742	V07732
			575			V07789	V07749
		XP	208-230/460	1.00	56C	V07743	V07A34E3BB2S
			575			V07A32H3BB1S	V07A34H3BB1S
		DPPE	208-230/460	1.15	56C	V07741PE	V07A34E4BB2S
			575			V07A32H4BB2S	V07A34H4BB2S
		TEPE	208-230/460	1.15	56C	V07742PE	V07A34E5BB2S
			575			V07A32H5BB2S	V07A34H5BB2S

Motor Data

3500 RPM, 60Hz

HP	Phase	Enclosure	Voltage	SF	NEMA Frame	Speed / Pole	
						3500 / 2	1750 / 4
2	1	ODP	115/208-230	1.15	56C	V08721	V08A14A1BB2S
		TEFC	115/208-230	1.15	56C	V08722	V08A14A2BB2S
	3	ODP	208-230/460	1.15	56C	V08741	V08A34E1BB2S
			575			V08779	V08A34H1BB2S
		TEFC	208-230/460	1.15	56C	V08742	V08A34E2BB2S
			575			V08A32H2BB2S	V08749
		XP	208-230/460	1.00	56C	V08743	V08A34E3BB1S
			575			V08A32H3BB1S	V08A34H3BB1S
		DPPE	208-230/460	1.15	56C	V08741PE	V08A34E4BB2S
			575			V08A32H4BB2S	V08A34H4BB2S
		TEPE	208-230/460	1.15	56C	V08742PE	V08A34E5BB2S
			575			V08A32H5BB2S	V08A34H5BB2S
3	1	ODP	115/208-230	1.15	56C	V09721	V09711
		TEFC	115/208-230			V09722	V09A14B2BD1S
	3	ODP	208-230/460	1.15	56C	V09741	V09A34E1BD2S
			575			V09779	V09739
		TEFC	208-230/460	1.15	56C	V09742	V09732
			575			V09789	V09749
		XP	208-230/460	1.00	56C	V09743	V09A34E3BB1S
			575			V09A32H3BB1S	V09A34H3BB1S
		DPPE	208-230/460	1.15	56C	V09741PE	V09A34E4BB2S
			575			V09A32H4BB2S	V09A34H4BB2S
		TEPE	208-230/460	1.15	184TC	V09742PE	V09A34E5HD2S
			575			V09A32H5BD2S	V09A34H5BD2S
5	1	ODP	115/208-230	1.15	182TC	V10721A	V10A14C1BD2S
		TEFC	115/208-230	1.15	184TC	V10722A	V10A14C2BD2S
	3	ODP	208-230/460	1.15	182TC	V10741A	V10731
			575			V10779	V10A34H1BD2S
		TEFC	208-230/460	1.15	184TC	V10742A	V10A34H2BD2S
			575			V10789	V10749
		XP	208-230/460	1.00	184TC	V10743A	V10A34E3BD1S
			575			V10A32H3BD1S	V10A34H3BD1S
		DPPE	208-230/460	1.15	182TC	V10741APE	V10A34E4BD2S
			575			V10A32H4BD2S	V10A34H4BD2S
		TEPE	208-230/460	1.15	184TC	V10742APE	V10A34E5BD2S
			575			V10A32H5BB2S	V10A34H5BD2S
7½	1	ODP	115/208-230	1.15	213TC	V11721	V11A14A1BE2S
		TEFC	115/208-230			V11722	V11A14A2BE2S
	3	ODP	208-230/460	1.15	182TC	V11741A	V11731
			575			V11779	V11A34H1BD2S
		TEFC	208-230/460	1.15	184TC	V11742A	V11732
			575			V11789	V11A34H2BE2S
		XP	208-230/460	1.00	184TC | 213TC	V11743A	V11A34E3BE1S
			575		213TC	V11A32H3BE1S	V11A34H3BE1S
		DPPE	208-230/460	1.15	184TC	V11741APE	V11A34F4BE2S
			575			V11A32H4BD2S	V11A34H4BD2S
		TEPE	208-230/460	1.15	213TC	V11742APE	V11A34F5BE2S
			575			V11A32H5BE2S	V11749PE

Motor Data

3500 RPM, 60Hz

HP	Phase	Enclosure	Voltage	SF	NEMA Frame	Speed / Pole	
						3500 / 2	1750 / 4
10	1	ODP	115/208-230	1.15	213TC	V12721	V12A14A1BE2S
		TEFC	115/208-230	1.15	213TC	V12722	V12A14C2BE1S
	3	ODP	208-230/460	1.15	213TC	V12741	V12731
			575			V12779	V12A34H1BE2S
		TEFC	208-230/460	1.15	215TC	V12742	V12732
			575			V12789	V12749
		XP	208-230/460	1.00	215TC	V12743	V12A34E3BE1S
			575			V12A32H3BE1S	V12A34H3BE1S
		DPPE	208-230/460	1.15	215TC	V12741PE	V12A34E4BE2S
			575			V 12A32H4BE2S	V12A34H4BE2S
		TEPE	208-230/460	1.15	215TC	V12742PE	V12A34E5BE2S
			575			V12A32H5BE2S	V12A34H5BE2S
15	3	ODP	208-230/460	1.15	215TC	V13741	V13731
			575			V13779	V13A34H1BE2S
		TEFC	208-230/460	1.15	254TC	V13742	V13A34E2BK2S
			575			V13789	V13A34H2BK2S
		XP	208-230/460	1.00	254TC	V13743	V13A34E3BK1S
			575			V13A32H3BK1S	V13A34H3BK1S
		DPPE	208-230/460	1.15	215TC	V13741PE	V13A34E4BE2S
			575			V13A32H4BE2S	V13A34H4BE2S
		TEPE	208-230/460	1.15	254TC	V13742PE	V13A34E5BK2S
			575			V13A32H5BK2S	V13A34H5BK2S
20	3	ODP	208-230/460	1.15	254TC	V14741	V14A34E1BK2S
			575			V14779	V14A34H1BK2S
		TEFC	208-230/460	1.15	254TC	V14742	V14732D
			575			V14789	V14A34H2BK2S
		XP	208-230/460	1.00	256TC	V14743	V14A34E3BK1S
			575			V14A32H3BK1S	V14A34H3BK1S
		DPPE	208-230/460	1.15	254TC	V14741PE	V14A34E4BK2S
			575			V14A32H4BK2S	V14A34H4BK2S
		TEPE	208-230/460	1.15	256TC	V14742PE	V14A34E5BK2S
			575			V14A32H5BK2S	V14A34H5BK2S
25	3	ODP	208-230/460	1.15	256TC	V15741	V15731D
			575			V15779	V15A34H1BK2S
		TEFC	208-230/460	1.15	284TC	V15742	V15732D
			575			V15789	V15A34H2BL2S
		XP	208-230/460	1.15	284TC	V15743	V15A34E3BL2S
			575			V15A32H3BL2S	V15A34H3BL2S
		DPPE	208-230/460	1.15	256TC	V15741PE	V15A34E4BK2S
			575			V15A32H4BK2S	V15A34H4BK2S
		TEPE	208-230/460	1.15	284TC	V15742PE	V15A34E5BL2S
			575			V15A32H5BL2S	V15A34H5BL2S
30	3	ODP	208-230/460	1.15	284TC	V16741	V16731D
			575			V16779	V16A34H1BL2S
		TEFC	208-230/460	1.15	284TC	V16742	V16732D
			575			V16789	V16A34H2BL2S
		XP	208-230/460	1.15	286TC	V16743	V16A34E3BL2S
			575			V16A32H3BL2S	V16A34H3BL2S

Motor Data

3500 RPM, 60Hz

HP	Phase	Enclosure	Voltage	SF	NEMA Frame	Speed / Pole	
						3500 / 2	1750 / 4
30	3	DPPE	208-230/460	1.15	284TC	V16741PE	V16A34E4BL2S
			575			V16A32H4BL2S	V16A34H4BL2S
		TEPE	208-230/460	1.15	286TC	V16742PE	V16A34E5BL2S
			575			V16A32H5BL2S	V16A34H5BL2S
40	3	ODP	208-230/460	1.15	286TC	V17741	V17731D
			575			V17A32H1BL2S	V17A34H1BL2S
		TEFC	208-230/460	1.15	286TC	V17742	V17732DPE
			575			V17789	V17A34H2BL2S
		XP	208-230/460	1.15	324TSC	V17743	X17A34E3BM2S
			575			X17A32H3BM2S	X17A34H3BM2S
		DPPE	208-230/460	1.15	286TC	V17741PE	V17A34E4BL2S
			575			V17A32H4BL2S	V17A34H4BL2S
		TEPE	208-230/460	1.15	324TSC	V17742PE	X17A34E5BM2S
			575			X17A32H5BM2S	X17A34H5BM2S
50	3	ODP	208-230/460	1.15	326TSC	V18741S	V18731D
			575			V18779S	X18A34H1BM2S
		TEFC	208-230/460	1.15	326TSC	V18742S	V18732D
			575			V18789S	X18A34H2BM2S
		XP	208-230/460	1.15	326TSC	V18743S	X18A34E3BM2S
			575			X18A32H3BM2S	X18A34H3BM2S
		DPPE	208-230/460	1.15	324TSC	V18741SPE	X18A34E4BM2S
			575			X18A32H4BM2S	X18A34H4BM2S
		TEPE	208-230/460	1.15	326TSC	V18742SPE	X18A34E5BM2S
			575			V18A32H5BM2S	X18A34H5BM2S
60	3	ODP	208-230/460	1.15	326TSC	V19741S	V19731D
			575			X19A32H1BM2S	X19A34H1BM2S
		TEFC	208-230/460	1.15	364TSC	V19742S	V19732D
			575			V19789S	X19A34H2BP2S
		XP	208-230/460	1.15	364TSC	V19743S	X19A34E3BP2S
			575			X19A32H3BP2S	X19A34H3BP2S
		DPPE	208-230/460	1.15	326TSC	V19741SPE	X19A34E4BM2S
			575			X19A32H4BM2S	X19A34H4BM2S
		TEPE	208-230/460	1.15	364TSC	V19742SPE	X19A34E5BP2S
			575			X19A32H5BP2S	X19A34H5BP2S
75	3	ODP	208-230/460	1.15	365TSC	V20741S	X20A34E1BP2S
			575			V20779S	X20A34H1BP2S
		TEFC	208-230/460	1.15	365TSC	V20742S	X20A34E2BP2S
			575			V20789S	X20A34H2BP2S
		XP	208-230/460	1.15	365TSC	V20743S	X20A34E3BP2S
			575			X20A32H3BP2S	X20A34H3BP2S
		DPPE	208-230/460	1.15	364TSC	V20741SPE	X20A34E4BP2S
			575			X20A32H4BP2S	X20A34H4BP2S
		TEPE	208-230/460	1.15	365TSC	V20742SPE	X20A34E5BP2S
			575			X20A32H5BP2S	X20A34H5BP2S

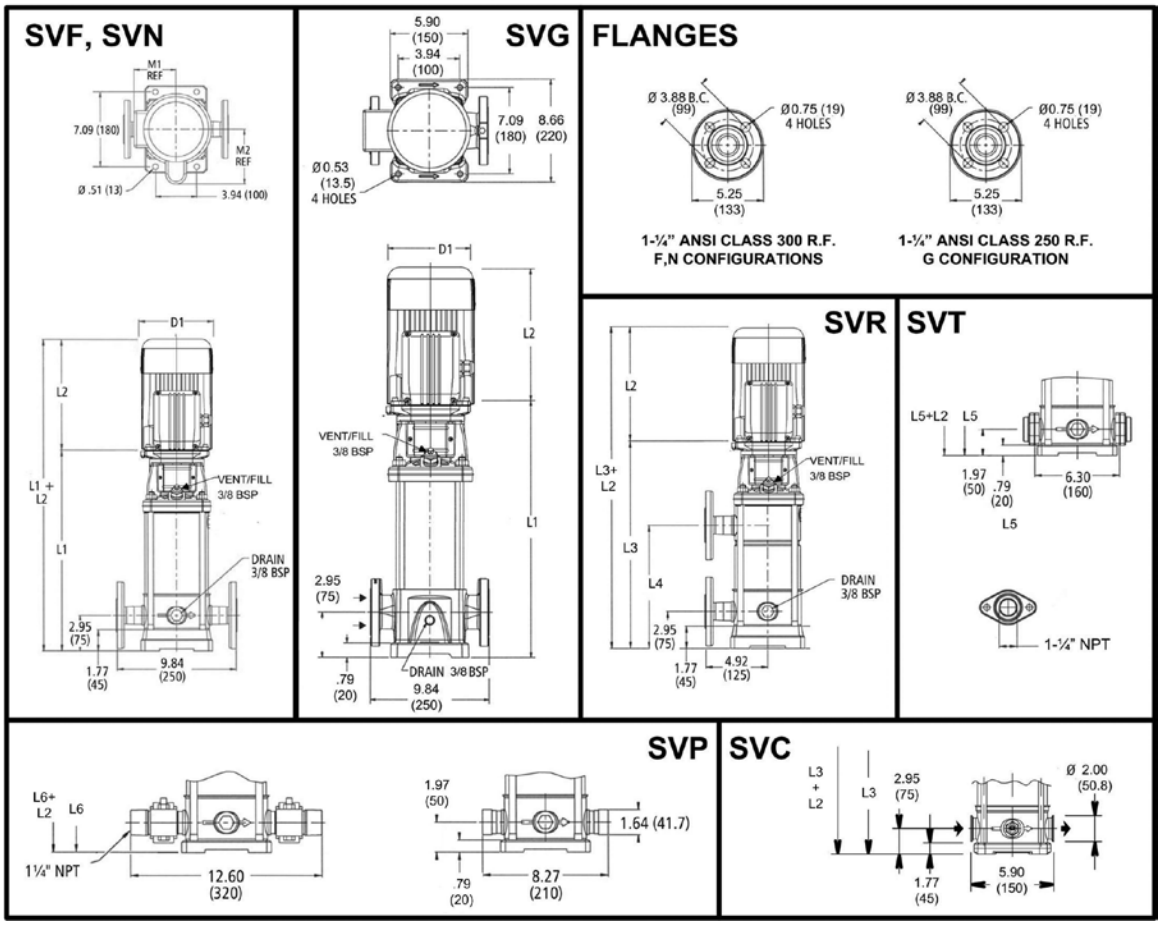
NOTES:

[1] Locked rotor amps are for high voltage only.

• Motors are suitable for HYDROVAR® Variable Speed Drive.

Above data is for Baldor® TC and TSC frame motors. Specifications subject to change without notice.

Dimensions and Weights — 1SV Series 3500 RPM — 60 Hz

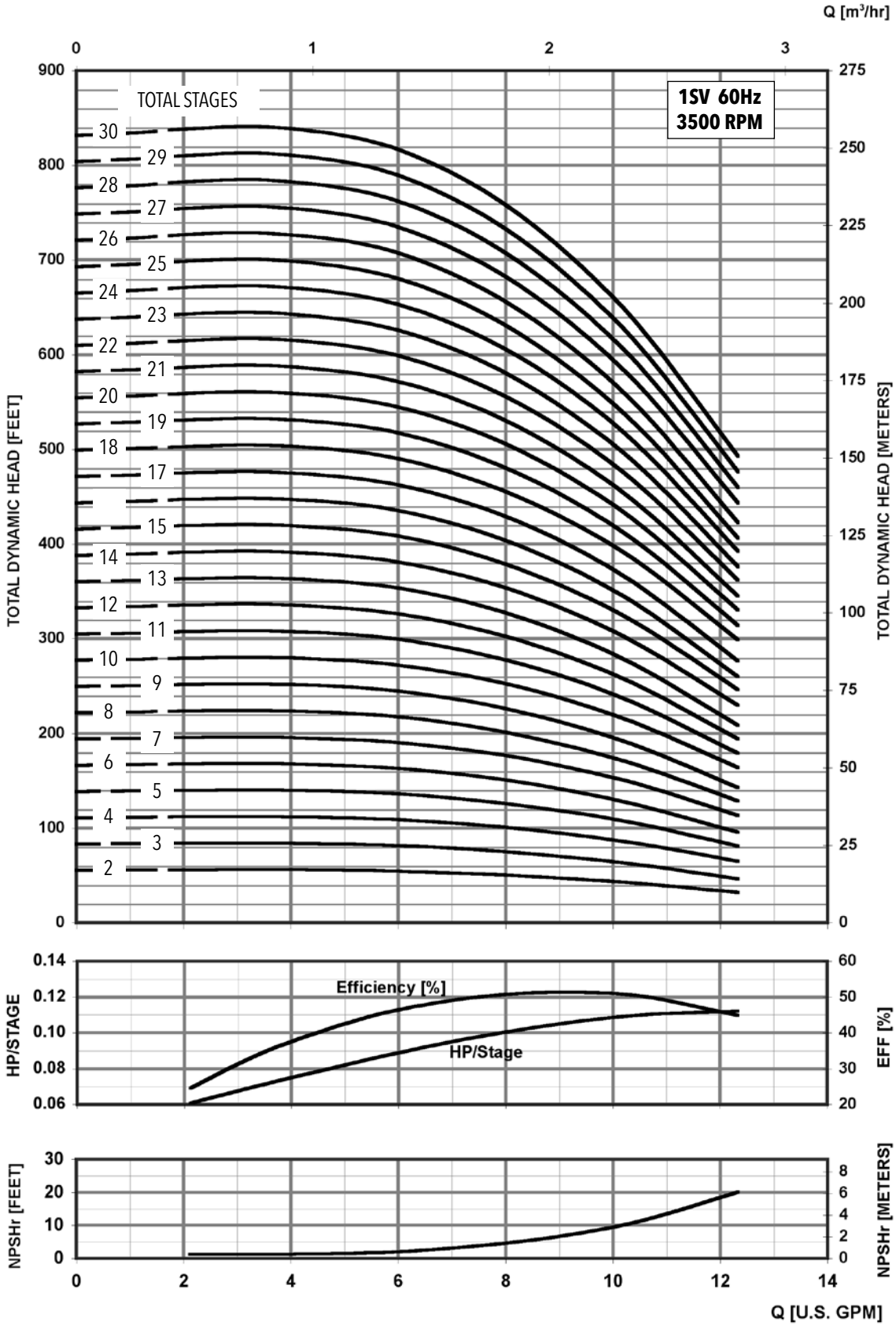


All dimensions are in inches (mm).

1SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor					Dimensions (in)																Weight (lbs.)								
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	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
1SV-02	0.5	56C				13.27	9.16	9.29	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	25	21	21	19	19	46	46	44	44
1SV-03						13.27	9.16	9.29	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	26	21	21	19	19	47	47	45	45
1SV-04						14.06	9.16	9.29	9.16	9.29	-	-	13.07	13.07	5.19	6.19	6.19	6.19	6.19	4.13	27	21	21	19	19	48	48	46	46
1SV-05						14.85	9.16	9.29	9.16	9.29	-	-	13.86	13.86	5.19	6.19	6.19	6.19	6.19	4.13	28	21	21	19	19	49	49	47	47
1SV-06	0.75					15.63	10.79	9.91	9.16	9.29	-	-	14.65	14.65	5.19	6.19	6.19	6.19	6.19	4.13	28	27	29	21	21	55	57	49	49
1SV-07						16.42	10.79	9.91	9.16	9.29	-	-	15.44	15.44	5.19	6.19	6.19	6.19	6.19	4.13	29	27	29	21	21	56	58	50	50
1SV-08						17.21	10.79	9.91	9.16	9.29	17.21	8.94	16.22	16.22	5.19	6.19	6.19	6.19	6.19	4.13	30	27	29	21	21	57	59	51	51
1SV-09	1					18.00	10.66	11.19	9.16	9.29	18.00	9.72	17.01	17.01	5.74	6.19	7.19	6.19	6.19	4.13	31	32	40	23	23	63	71	54	54
1SV-10						18.78	10.66	11.19	9.16	9.29	18.78	10.51	17.80	17.80	5.74	6.19	7.19	6.19	6.19	4.13	32	32	40	23	23	64	72	55	55
1SV-11	1.5					19.57	10.67	11.19	10.66	9.91	19.57	11.30	18.59	18.59	5.74	6.19	7.19	6.19	6.19	4.72	33	32	40	30	28	65	73	63	61
1SV-12						20.36	10.67	11.19	10.66	9.91	20.36	12.09	19.37	19.37	5.74	6.19	7.19	6.19	6.19	4.72	34	32	40	30	28	66	74	64	62
1SV-13						21.14	10.67	11.19	10.66	9.91	21.14	12.87	20.16	20.16	5.74	6.19	7.19	6.19	6.19	4.72	35	32	40	30	28	67	75	65	63
1SV-14						21.93	10.67	11.19	10.66	9.91	21.93	13.66	20.95	20.95	5.74	6.19	7.19	6.19	6.19	4.72	36	32	40	30	28	68	76	66	64
1SV-15						22.72	10.67	11.19	10.66	9.91	22.72	14.45	21.74	21.74	5.74	6.19	7.19	6.19	6.19	4.72	37	32	40	30	28	69	77	67	65
1SV-16	2					23.51	11.18	12.06	11.16	10.79	23.51	15.24	22.52	22.52	5.74	7.19	7.19	6.19	6.19	4.72	38	43	51	32	33	81	89	70	71
1SV-17						24.29	11.18	12.06	11.16	10.79	24.29	16.02	23.31	23.31	5.74	7.19	7.19	6.19	6.19	4.72	38	43	51	32	33	81	89	70	71
1SV-18						25.08	11.18	12.06	11.16	10.79	25.08	16.81	24.10	24.10	5.74	7.19	7.19	6.19	6.19	4.72	39	43	51	32	33	82	90	71	72
1SV-19						25.87	11.18	12.06	11.16	10.79	25.87	17.60	-	24.89	5.74	7.19	7.19	6.19	6.19	4.72	40	43	51	32	33	83	91	72	73
1SV-20						26.66	11.18	12.06	11.16	10.79	26.66	18.39	-	25.67	5.74	7.19	7.19	6.19	6.19	4.72	41	43	51	32	33	84	92	73	74
1SV-21	3					27.44	11.57	13.44	11.18	11.16	27.44	19.17	-	26.46	5.75	6.50	7.19	7.16	7.19	5.51	42	49	64	41	44	91	106	83	86
1SV-22						28.23	11.57	13.44	11.18	11.16	28.23	19.96	-	27.25	5.75	6.50	7.19	7.16	7.19	5.51	43	49	64	41	44	92	107	84	87
1SV-23						29.02	11.57	13.44	11.18	11.16	29.02	20.75	-	28.03	5.75	6.50	7.19	7.16	7.19	5.51	45	49	64	41	44	94	109	86	89
1SV-24						29.81	11.57	13.44	11.18	11.16	29.81	21.54	-	28.82	5.75	6.50	7.19	7.16	7.19	5.51	46	49	64	41	44	95	110	87	90
1SV-25						30.59	11.57	13.44	11.18	11.16	30.59	22.32	-	29.61	5.75	6.50	7.19	7.16	7.19	5.51	47	49	64	41	44	96	111	88	91
1SV-26						31.38	11.57	13.44	11.18	11.16	31.38	23.11	-	30.40	5.75	6.50	7.19	7.16	7.19	5.51	47	49	64	41	44	96	111	88	91
1SV-27						32.17	11.57	13.44	11.18	11.16	32.17	23.90	-	31.18	5.75	6.50	7.19	7.16	7.19	5.51	48	49	64	41	44	97	112	89	92
1SV-28						32.96	11.57	13.44	11.18	11.16	32.96	24.68	-	31.97	5.75	6.50	7.19	7.16	7.19	5.51	49	49	64	41	44	98	113	90	93
1SV-29						34.14	11.57	13.44	11.18	11.16	34.14	25.47	-	33.15	5.75	6.50	7.19	7.16	7.19	5.51	50	49	64	41	44	99	114	91	94
1SV-30						34.53	11.57	13.44	11.18	11.16	-	-	-	33.55	5.75	6.50	7.19	7.16	7.19	5.51	51	49	64	41	44	100	115	92	95

Performance Curve **1SV 3500 RPM** **60 Hz**

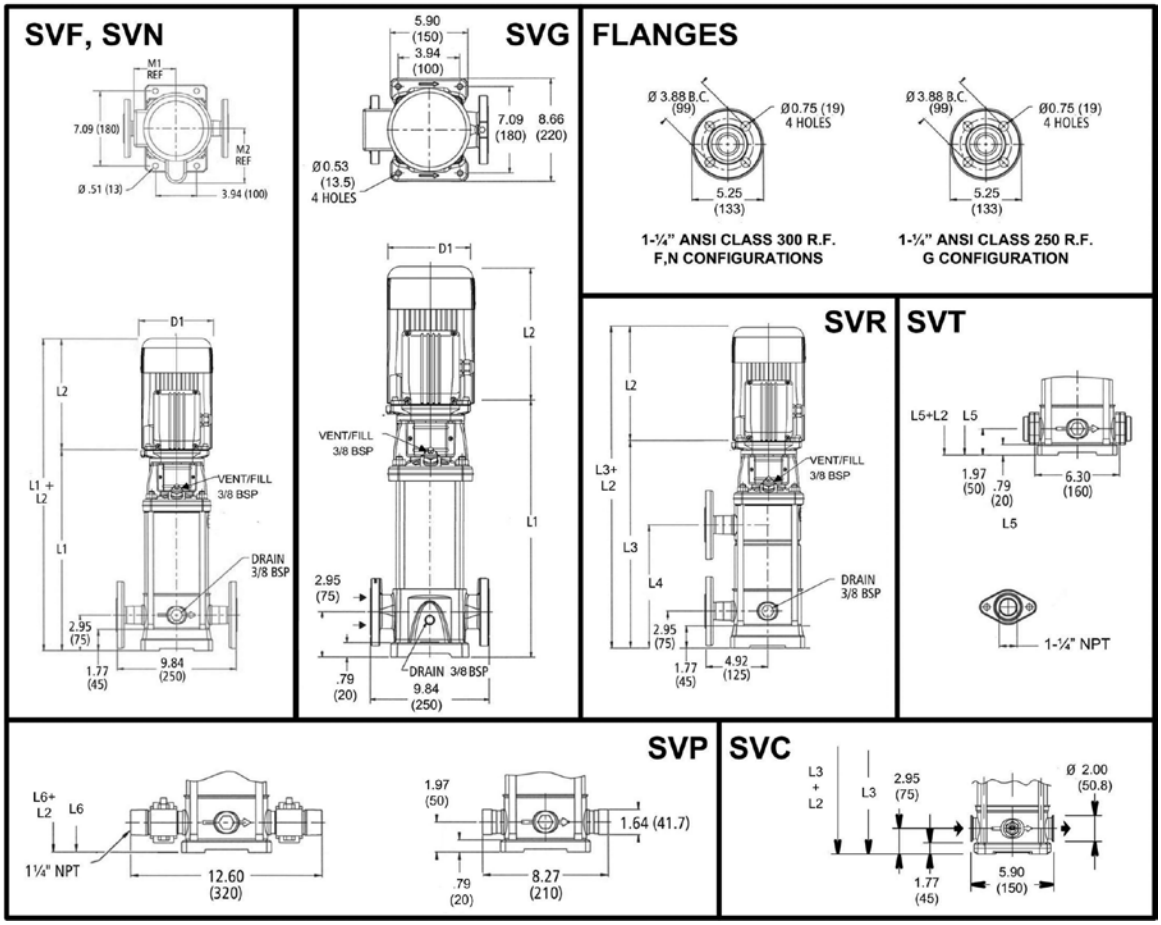


MINIMUM FLOW RATE: 2 GPM [½ m³/hr]

Dimensions and Weights

3SV Series 3500 RPM

60 Hz

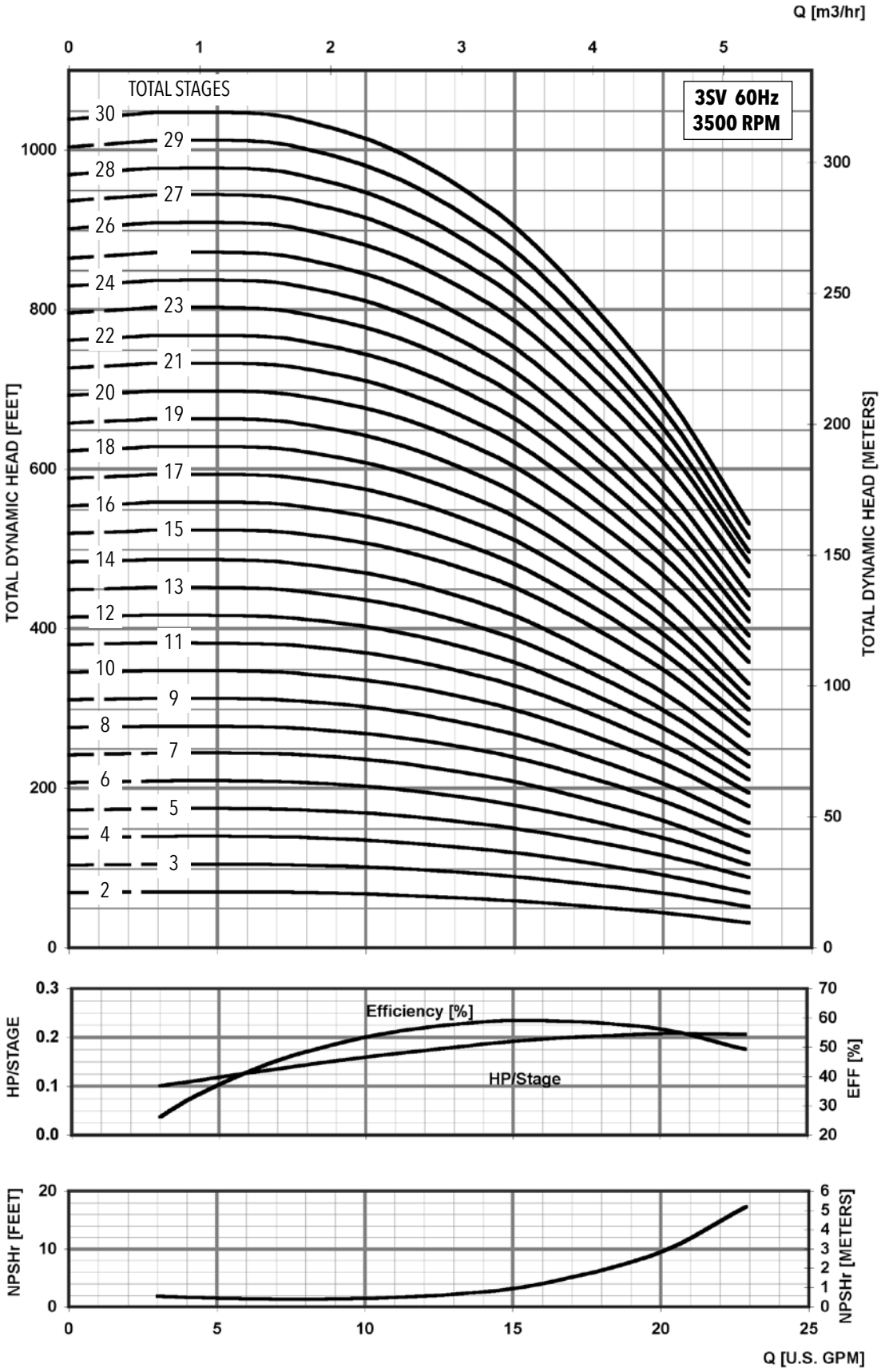


All dimensions are in inches (mm).

3SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

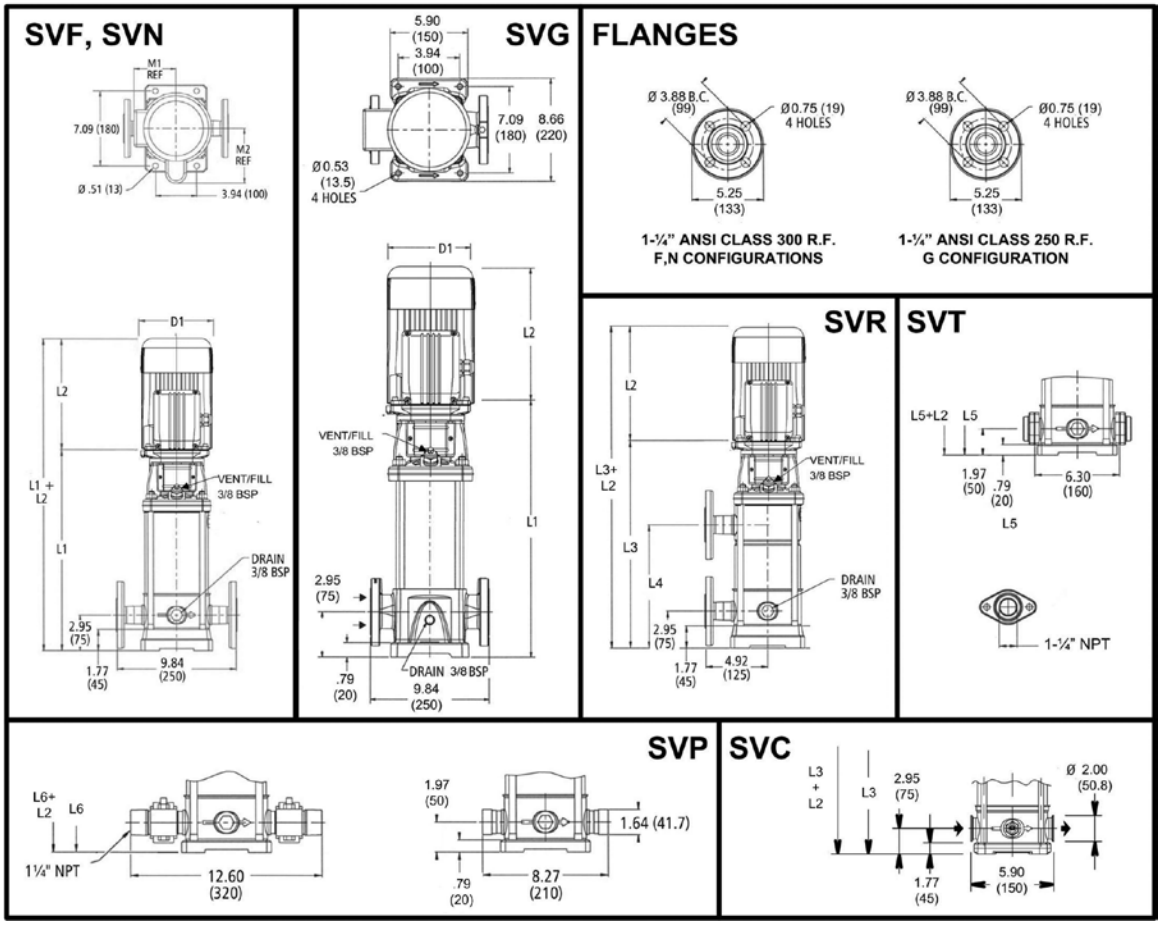
Pump Type Stages	Motor					Dimensions (in)																Weight (lbs.)								
		NEMA Frame					L2									D1 (max.)							Motor					Pump/Motor			
	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
3SV-02	0.5	56C				13.27	9.16	9.29	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	24	21	21	19	19	45	45	43	43
3SV-03						13.27	9.16	9.29	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	25	21	21	19	19	46	46	44	44
3SV-04	0.75					14.06	10.79	9.91	9.16	9.29	-	-	13.07	13.07	5.19	6.19	6.19	6.19	6.19	4.13	26	27	29	21	21	53	55	47	47
3SV-05	1					14.85	10.66	11.19	9.16	9.29	-	-	13.86	13.86	5.74	6.19	7.19	6.19	6.19	4.13	27	32	40	23	23	59	67	50	50
3SV-06	1.5					15.63	10.67	11.19	10.66	9.91	-	-	14.65	14.65	5.74	6.19	7.19	6.19	6.19	4.72	28	32	40	30	28	60	68	58	56
3SV-07						16.42	10.67	11.19	10.66	9.91	-	-	15.44	15.44	5.74	6.19	7.19	6.19	6.19	4.72	30	32	40	30	28	62	70	60	58
3SV-08						17.21	10.67	11.19	10.66	9.91	17.21	8.94	16.22	16.22	5.74	6.19	7.19	6.19	6.19	4.72	31	32	40	30	28	63	71	61	59
3SV-09	2					18.00	11.18	12.06	11.16	10.79	18.00	9.72	17.01	17.01	5.74	7.19	7.19	6.19	6.19	4.72	32	43	51	32	33	75	83	64	65
3SV-10						18.78	11.18	12.06	11.16	10.79	18.78	10.51	17.80	17.80	5.74	7.19	7.19	6.19	6.19	4.72	33	43	51	32	33	76	84	65	66
3SV-11						19.57	11.18	12.06	11.16	10.79	19.57	11.30	18.59	18.59	5.74	7.19	7.19	6.19	6.19	4.72	34	43	51	32	33	77	85	66	67
3SV-12	3					20.36	11.57	13.44	11.18	11.16	20.36	12.09	19.37	19.37	5.75	6.50	7.19	7.16	7.19	5.51	35	49	64	41	44	84	99	76	79
3SV-13						21.14	11.57	13.44	11.18	11.16	21.14	12.87	20.16	20.16	5.75	6.50	7.19	7.16	7.19	5.51	36	49	64	41	44	85	100	77	80
3SV-14						21.93	11.57	13.44	11.18	11.16	21.93	13.66	20.95	20.95	5.75	6.50	7.19	7.16	7.19	5.51	37	49	64	41	44	86	101	78	81
3SV-15						22.72	11.57	13.44	11.18	11.16	22.72	14.45	-	21.74	5.75	6.50	7.19	7.16	7.19	5.51	38	49	64	41	44	87	102	79	82
3SV-16						23.51	11.57	13.44	11.18	11.16	23.51	15.24	-	22.52	5.75	6.50	7.19	7.16	7.19	5.51	39	49	64	41	44	88	103	80	83
3SV-17	5	184TC		182TC	184TC	24.99	13.93	15.43	12.55	13.93	24.99	16.02	-	24.01	6.87	8.88	8.86	9.02	8.86	5.51	42	81	92	62	69	123	134	104	111
3SV-18						25.78	13.93	15.43	12.55	13.93	25.78	16.81	-	24.80	6.87	8.88	8.86	9.02	8.86	5.51	43	81	92	62	69	124	135	105	112
3SV-19						26.57	13.93	15.43	12.55	13.93	26.57	17.60	-	25.59	6.87	8.88	8.86	9.02	8.86	5.51	43	81	92	62	69	124	135	105	112
3SV-20						27.36	13.93	15.43	12.55	13.93	27.36	18.39	-	26.37	6.87	8.88	8.86	9.02	8.86	5.51	44	81	92	62	69	125	136	106	113
3SV-21						28.14	13.93	15.43	12.55	13.93	28.14	19.17	-	27.16	6.87	8.88	8.86	9.02	8.86	5.51	45	81	92	62	69	126	137	107	114
3SV-22						28.93	13.93	15.43	12.55	13.93	28.93	19.96	-	27.95	6.87	8.88	8.86	9.02	8.86	5.51	46	81	92	62	69	127	138	108	115
3SV-23						29.72	13.93	15.43	12.55	13.93	29.72	20.75	-	28.73	6.87	8.88	8.86	9.02	8.86	5.51	47	81	92	62	69	128	139	109	116
3SV-24						30.51	13.93	15.43	12.55	13.93	-	-	-	29.52	6.87	8.88	8.86	9.02	8.86	5.51	48	81	92	62	69	129	140	110	117
3SV-25						31.29	13.93	15.43	12.55	13.93	-	-	-	30.31	6.87	8.88	8.86	9.02	8.86	5.51	49	81	92	62	69	130	141	111	118
3SV-26						32.08	13.93	15.43	12.55	13.93	-	-	-	31.10	6.87	8.88	8.86	9.02	8.86	5.51	50	81	92	62	69	131	142	112	119
3SV-27						32.47	13.93	15.43	12.55	13.93	-	-	-	31.49	6.87	8.88	8.86	9.02	8.86	5.51	52	81	92	62	69	133	144	114	121
3SV-28	7.5	213TC		184TC		33.26	13.88	15.53	13.93	15.43	-	-	-	32.28	8.05	8.89	10.62	8.88	8.86	5.51	53	100	120	75	85	153	173	128	138
3SV-29						34.44	13.88	15.53	13.93	15.43	-	-	-	33.46	8.05	8.89	10.62	8.88	8.86	5.51	54	100	120	75	85	154	174	129	139
3SV-30						35.23	13.88	15.53	13.93	15.43	-	-	-	34.25	8.05	8.89	10.62	8.88	8.86	5.51	55	100	120	75	85	155	175	130	140

Performance Curve **3SV 3500 RPM** **60 Hz**



MINIMUM FLOW RATE: 3 GPM [.68 m³/hr]

Dimensions and Weights — 5SV Series 3500 RPM — 60 Hz

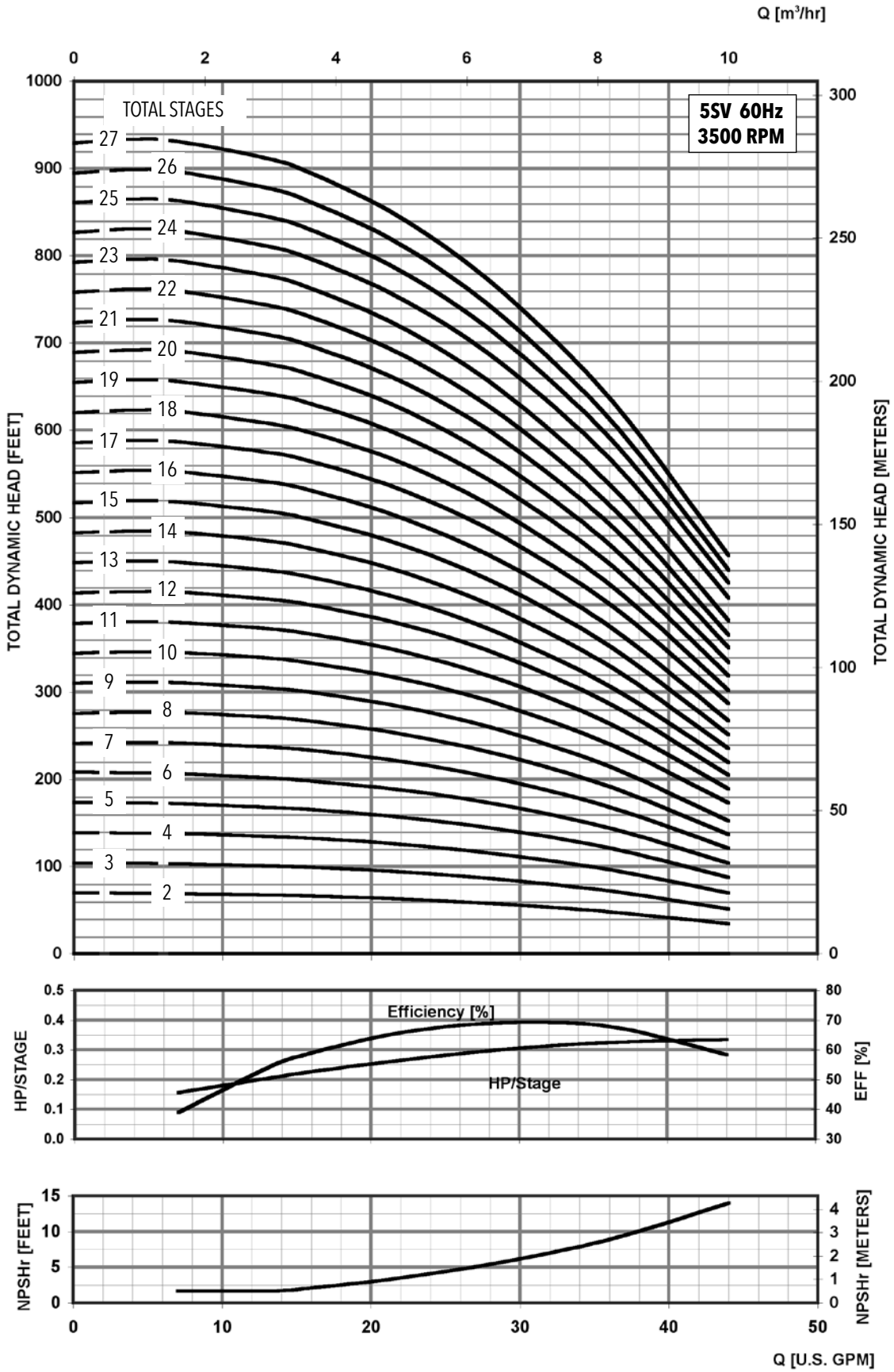


All dimensions are in inches (mm).

5SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

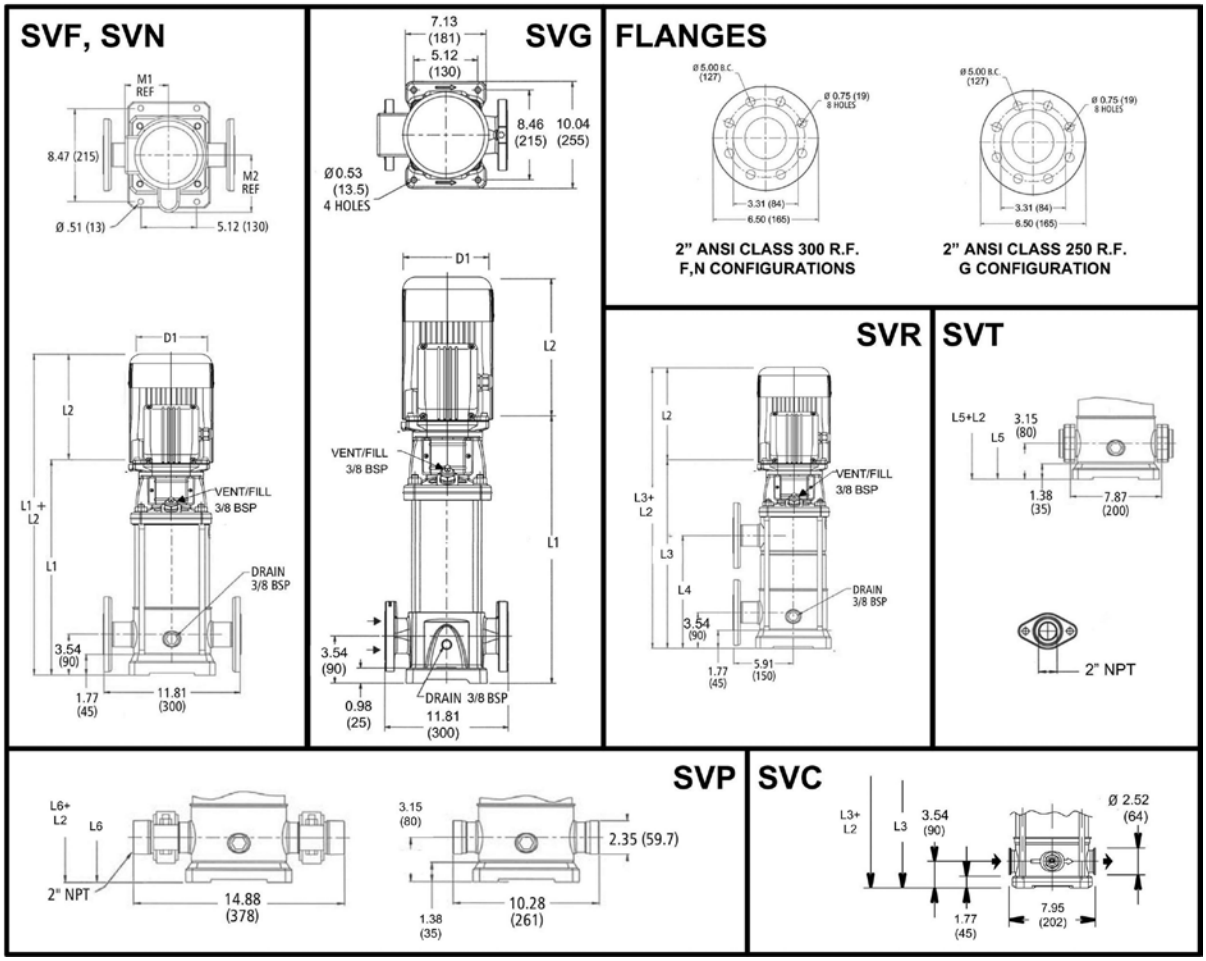
Pump Type Stages	Motor HP	Motor NEMA Frame ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	Dimensions (in) L1	L2 ODP 1Ø	L2 TEFC 1Ø	L2 ODP 3Ø	L2 TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	D1 (max.) ODP 1Ø	D1 TEFC 1Ø	D1 ODP 3Ø	D1 TEFC 3Ø	D2	Weight (lbs.) Pump Only	Motor ODP 1Ø	Motor TEFC 1Ø	Motor ODP 3Ø	Motor TEFC 3Ø	Pump/Motor ODP 1Ø	Pump/Motor TEFC 1Ø	Pump/Motor ODP 3Ø	Pump/Motor TEFC 3Ø
5SV-02	0.75	56C				13.86	10.79	9.91	9.16	9.29	-	-	12.88	12.88	5.19	6.19	6.19	6.19	6.19	4.13	25	27	29	21	21	52	54	46	46
5SV-03	1					13.86	10.66	11.19	9.16	9.29	-	-	12.88	12.88	5.74	6.19	7.19	6.19	6.19	4.13	26	32	40	23	23	58	66	49	49
5SV-04	1.5					14.85	10.67	11.19	10.66	9.91	-	-	13.86	13.86	5.74	6.19	7.19	6.19	6.19	4.72	28	32	40	30	28	60	68	58	56
5SV-05						15.83	10.67	11.19	10.66	9.91	-	-	14.85	14.85	5.74	6.19	7.19	6.19	6.19	4.72	29	32	40	30	28	61	69	59	57
5SV-06	2					16.81	11.18	12.06	11.16	10.79	-	-	15.83	15.83	5.74	7.19	7.19	6.19	6.19	4.72	30	43	51	32	33	73	81	62	63
5SV-07						17.80	11.18	12.06	11.16	10.79	17.80	9.53	16.81	16.81	5.74	7.19	7.19	6.19	6.19	4.72	31	43	51	32	33	74	82	63	64
5SV-08	3					18.78	11.57	13.44	11.18	11.16	18.78	10.51	17.80	17.80	5.75	6.50	7.19	7.16	7.19	5.51	33	49	64	41	44	82	97	74	77
5SV-09						19.77	11.57	13.44	11.18	11.16	19.77	11.50	18.78	18.78	5.75	6.50	7.19	7.16	7.19	5.51	33	49	64	41	44	82	97	74	77
5SV-10						20.75	11.57	13.44	11.18	11.16	20.75	12.48	19.77	19.77	5.75	6.50	7.19	7.16	7.19	5.51	34	49	64	41	44	83	98	75	78
5SV-11	5	184TC	182TC	184TC		22.44	13.93	15.43	12.55	13.93	22.44	13.46	21.45	21.45	6.87	8.88	8.86	9.02	8.86	5.51	37	81	92	62	69	118	129	99	106
5SV-12						23.42	13.93	15.43	12.55	13.93	23.42	14.45	22.44	22.44	6.87	8.88	8.86	9.02	8.86	5.51	38	81	92	62	69	119	130	100	107
5SV-13						24.40	13.93	15.43	12.55	13.93	24.40	15.43	23.42	23.42	6.87	8.88	8.86	9.02	8.86	5.51	40	81	92	62	69	121	132	102	109
5SV-14						25.39	13.93	15.43	12.55	13.93	25.39	16.42	24.40	24.40	6.87	8.88	8.86	9.02	8.86	5.51	40	81	92	62	69	121	132	102	109
5SV-15						26.37	13.93	15.43	12.55	13.93	26.37	17.40	-	25.39	6.87	8.88	8.86	9.02	8.86	5.51	41	81	92	62	69	122	133	103	110
5SV-16						27.36	13.93	15.43	12.55	13.93	27.36	18.39	-	26.37	6.87	8.88	8.86	9.02	8.86	5.51	43	81	92	62	69	124	135	105	112
5SV-17						28.54	13.93	15.43	12.55	13.93	28.54	19.37	-	27.55	6.87	8.88	8.86	9.02	8.86	5.51	45	81	92	62	69	126	137	107	114
5SV-18	7.5	213TC	184TC			29.33	13.88	15.53	13.93	15.43	29.33	20.35	-	28.34	8.05	8.89	10.62	8.88	8.86	5.51	46	100	120	75	85	146	166	121	131
5SV-19						30.51	13.88	15.53	13.93	15.43	30.51	21.34	-	29.52	8.05	8.89	10.62	8.88	8.86	5.51	47	100	120	75	85	147	167	122	132
5SV-20						31.69	13.88	15.53	13.93	15.43	31.69	22.32	-	30.70	8.05	8.89	10.62	8.88	8.86	5.51	48	100	120	75	85	148	168	123	133
5SV-21						32.28	13.88	15.53	13.93	15.43	32.28	23.31	-	31.29	8.05	8.89	10.62	8.88	8.86	5.51	49	100	120	75	85	149	169	124	134
5SV-22						33.34	13.88	15.53	13.93	15.43	33.34	24.29	-	32.36	8.05	8.89	10.62	8.88	8.86	5.51	50	100	120	75	85	150	170	125	135
5SV-23						34.25	13.88	15.53	13.93	15.43	34.25	25.28	-	33.26	8.05	8.89	10.62	8.88	8.86	5.51	51	100	120	75	85	151	171	126	136
5SV-24						35.31	13.88	15.53	13.93	15.43	-	-	-	34.33	8.05	8.89	10.62	8.88	8.86	5.51	53	100	120	75	85	153	173	128	138
5SV-25						36.21	13.88	15.53	13.93	15.43	-	-	-	35.23	8.05	8.89	10.62	8.88	8.86	5.51	53	100	120	75	85	153	173	128	138
5SV-26						37.28	13.88	15.53	13.93	15.43	-	-	-	36.29	8.05	8.89	10.62	8.88	8.86	5.51	54	100	120	75	85	154	174	129	139
5SV-27	10	215TC	213TC	215TC		38.84	16.63	16.68	15.55	15.51	-	-	-	37.86	8.77	10.62	10.18	10.18	10.28	5.51	62	132	145	107	122	194	207	169	184

Performance Curve **5SV 3500 RPM** **60 Hz**



MINIMUM FLOW RATE: 7 GPM [1.6 m³/hr]

Dimensions and Weights — 10SV Series 3500 RPM — 60 Hz

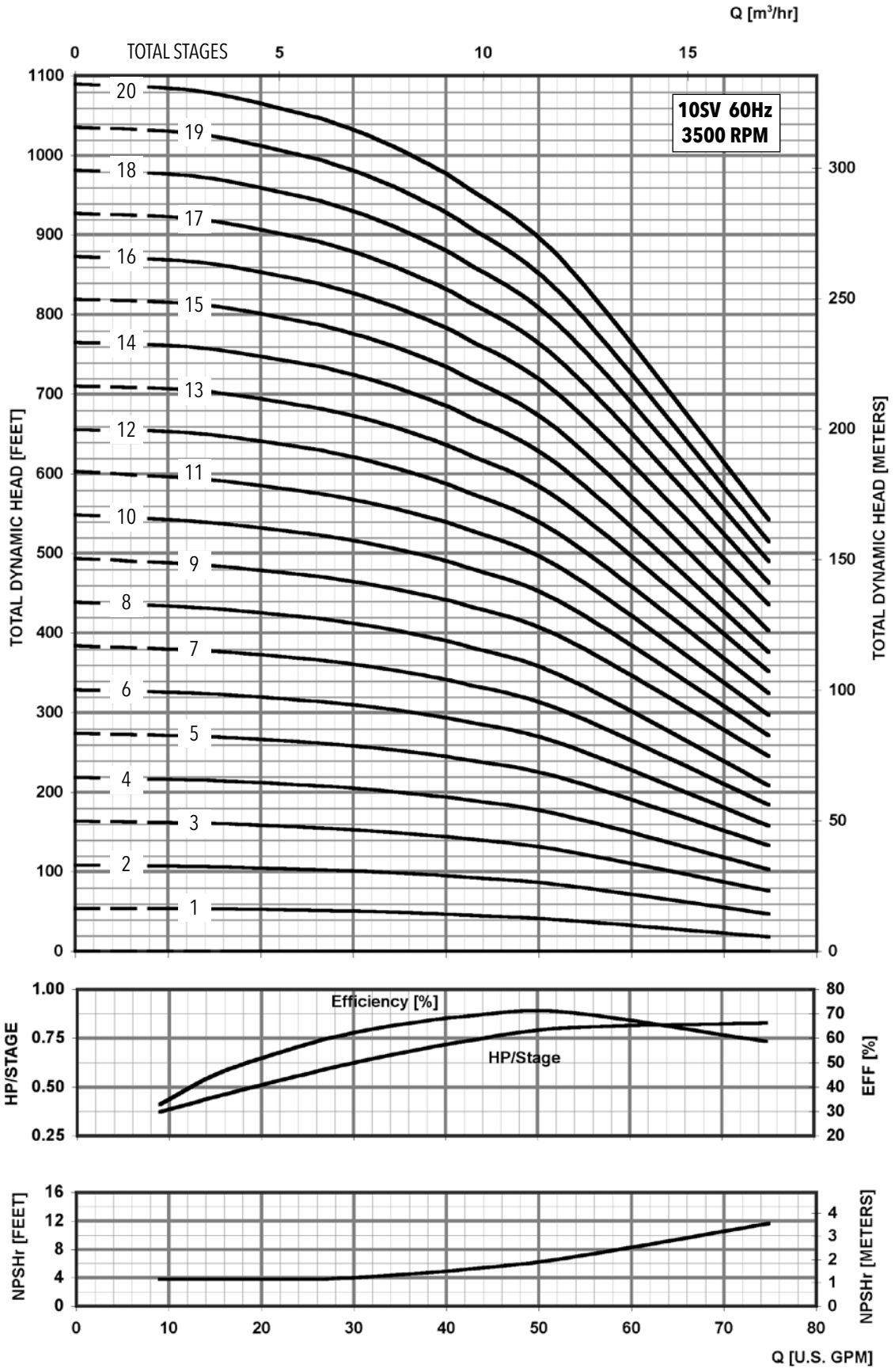


All dimensions are in inches (mm).

10SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

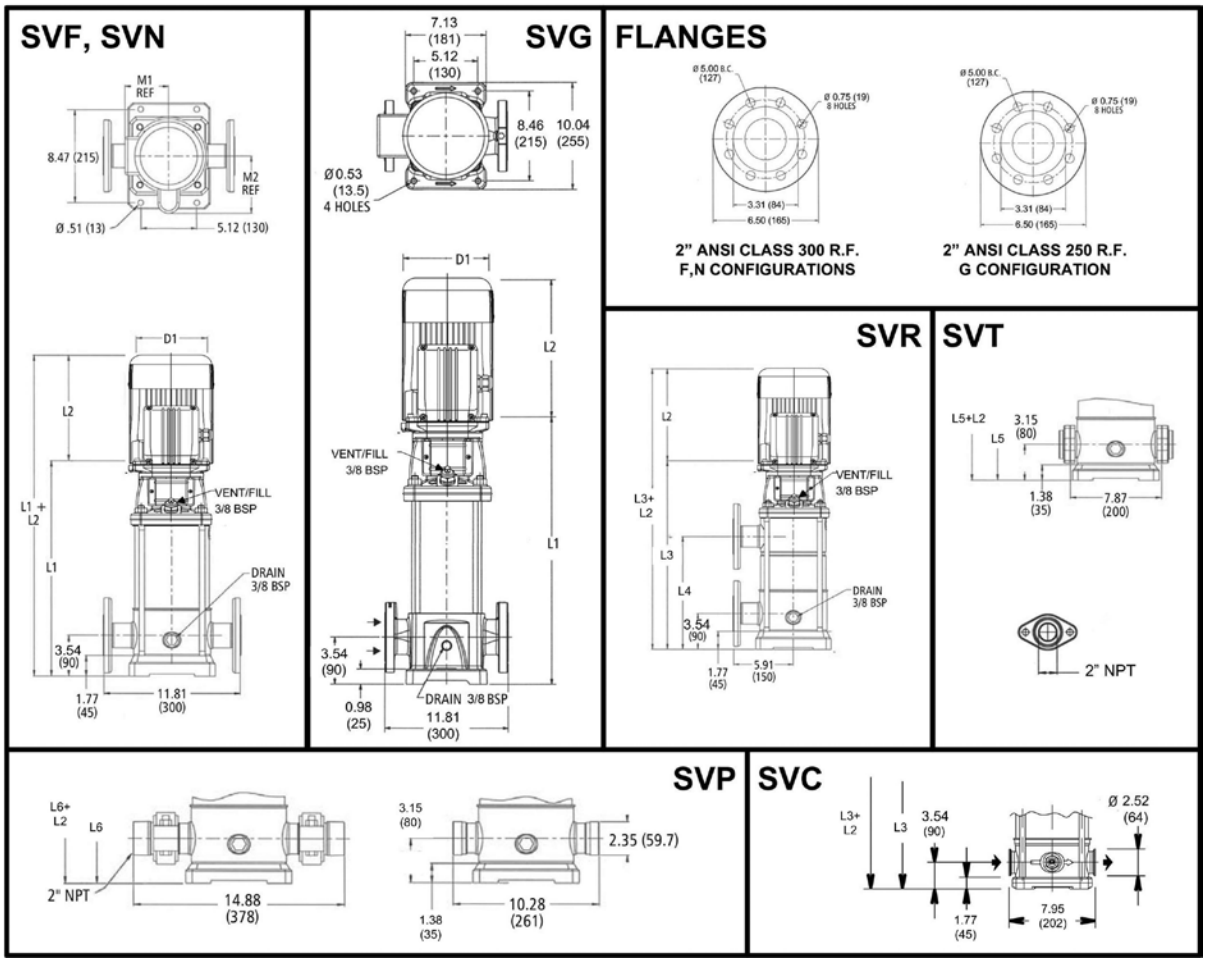
Pump Type Stages	Motor					Dimensions (in)																Weight (lbs.)								
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump Only	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
10SV-01	0.75	56C				16.56	10.79	9.91	9.16	9.29	-	-	16.17	16.17	5.19	6.19	6.19	6.19	6.19	4.13	36	27	29	21	21	63	65	57	57
10SV-02	2					16.56	11.18	12.06	11.16	10.79	-	-	16.17	16.17	5.74	7.19	7.19	6.19	6.19	4.72	38	43	51	32	33	81	89	70	71
10SV-03	3					17.82	11.57	13.44	11.18	11.16	-	-	17.43	17.43	5.75	6.50	7.19	7.16	7.19	5.51	40	49	64	41	44	89	104	81	84
10SV-04	5	184TC		182TC	184TC	19.58	13.93	15.43	12.55	13.93	-	-	19.19	19.19	6.87	8.88	8.86	9.02	8.86	5.51	46	81	92	62	69	127	138	108	115
10SV-05						20.84	13.93	15.43	12.55	13.93	20.84	10.20	20.45	20.45	6.87	8.88	8.86	9.02	8.86	5.51	48	81	92	62	69	129	140	110	117
10SV-06						22.10	13.93	15.43	12.55	13.93	22.10	11.46	21.71	21.71	6.87	8.88	8.86	9.02	8.86	5.51	50	81	92	62	69	131	142	112	119
10SV-07	7.5	213TC		184TC		23.36	13.88	15.53	13.93	15.43	23.36	12.72	22.97	22.97	8.05	8.89	10.62	8.88	8.86	5.51	52	100	120	75	85	152	172	127	137
10SV-08						24.62	13.88	15.53	13.93	15.43	24.62	13.98	24.22	24.22	8.05	8.89	10.62	8.88	8.86	5.51	54	100	120	75	85	154	174	129	139
10SV-09						25.88	13.88	15.53	13.93	15.43	25.88	15.24	25.48	25.48	8.05	8.89	10.62	8.88	8.86	5.51	56	100	120	75	85	156	176	131	141
10SV-10	10	215TC		213TC	215TC	27.71	16.63	16.68	15.55	15.51	27.71	16.50	-	27.31	8.77	10.62	10.18	10.18	10.28	5.51	66	132	145	107	122	198	211	173	188
10SV-11						28.97	16.63	16.68	15.55	15.51	28.97	17.76	-	28.57	8.77	10.62	10.18	10.18	10.28	5.51	68	132	145	107	122	200	213	175	190
10SV-12						29.44	16.63	16.68	15.55	15.51	29.44	19.02	-	29.05	8.77	10.62	10.18	10.18	10.28	5.51	70	132	145	107	122	202	215	177	192
10SV-13						31.51	16.63	16.68	15.55	15.51	31.51	20.28	-	31.11	8.77	10.62	10.18	10.18	10.28	5.51	75	132	145	107	122	207	220	182	197
10SV-14						32.85	16.63	16.68	15.55	15.51	32.85	21.54	-	32.45	8.77	10.62	10.18	10.18	10.28	5.51	77	132	145	107	122	209	222	184	199
10SV-15	15	-		215TC	254TC	34.66	-	-	15.55	16.57	-	-	-	34.26	9.22	-	-	10.18	10.28	5.51	84	-	-	125	195	-	-	209	279
10SV-16						35.92	-	-	15.55	16.57	-	-	-	35.52	9.22	-	-	10.18	10.28	5.51	86	-	-	125	195	-	-	211	281
10SV-17						37.18	-	-	15.55	16.57	-	-	-	36.78	9.22	-	-	10.18	10.28	5.51	88	-	-	125	195	-	-	213	283
10SV-18						38.44	-	-	15.55	16.57	-	-	-	38.04	9.22	-	-	10.18	10.28	5.51	90	-	-	125	195	-	-	215	285
10SV-19						39.78	-	-	15.55	16.57	-	-	-	39.38	9.22	-	-	10.18	10.28	5.51	92	-	-	125	195	-	-	217	287
10SV-20	20			254TC	256TC	40.96	-	-	16.66	20.08	-	-	-	40.56	9.5	-	-	10.18	13.13	5.51	94	-	-	144	285	-	-	238	379

Performance Curve **10SV 3500 RPM** **60 Hz**



MINIMUM FLOW RATE: 9 GPM [2 m³/hr]

Dimensions and Weights — 15SV Series 3500 RPM — 60 Hz

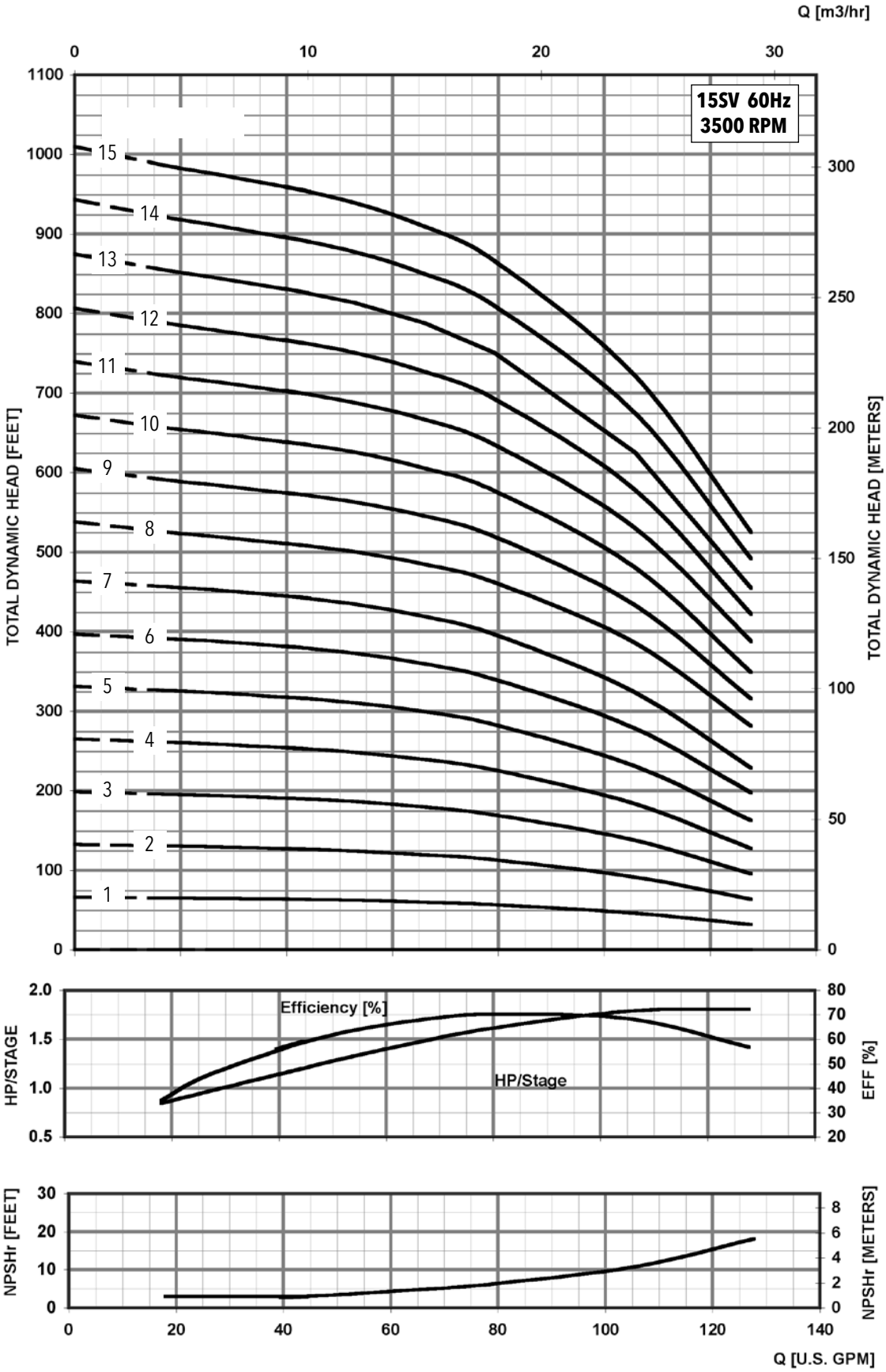


All dimensions are in inches (mm).

15SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

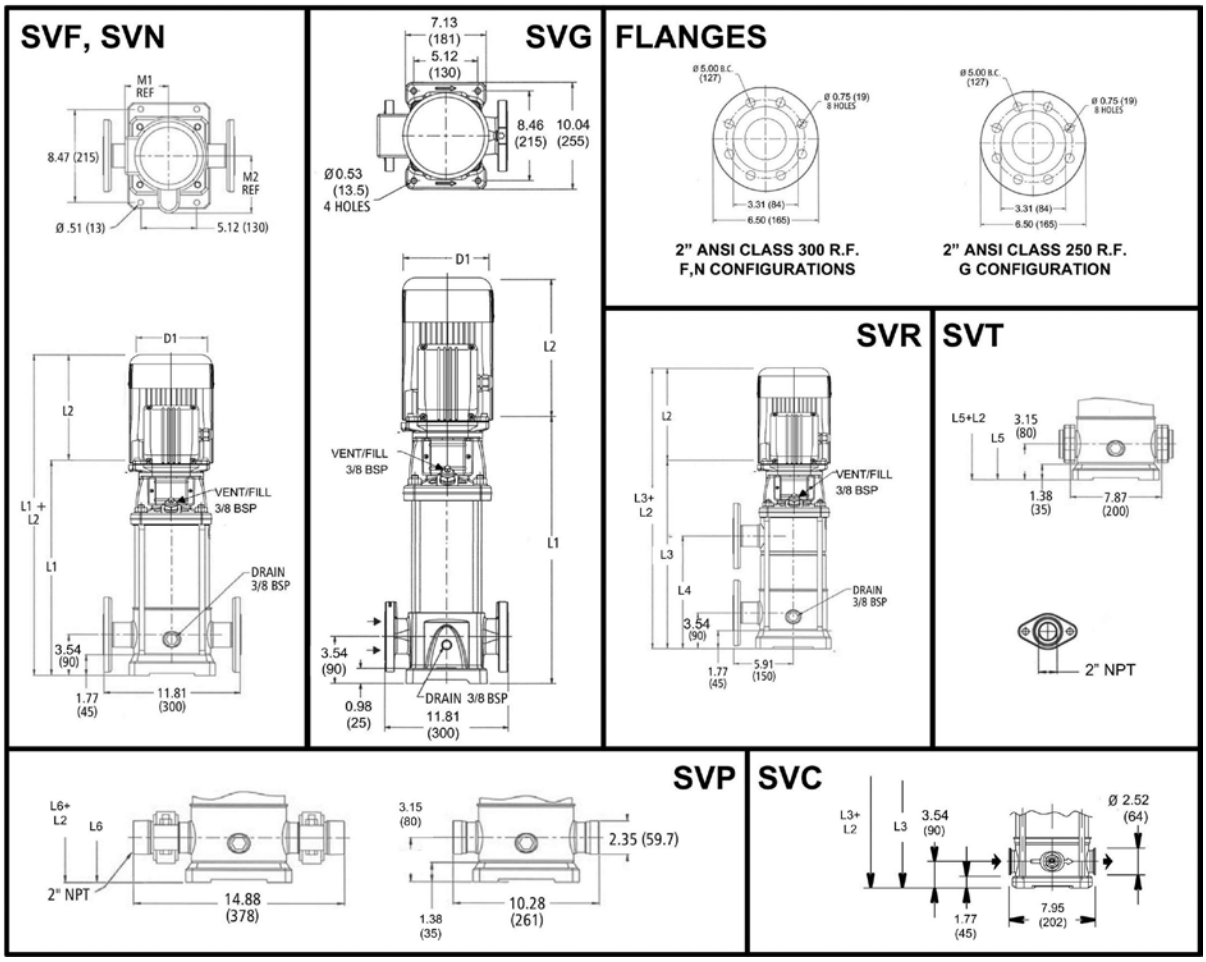
Pump Type Stages	Motor					Dimensions (in)																Weight (lbs.)									
		NEMA Frame					L2									D1 (max.)							Motor					Pump/Motor				
	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			
15SV-01	2	56C				18.61	11.18	12.06	11.16	10.79	-	-	18.21	18.21	5.74	7.19	7.19	6.19	6.19	4.72	38	43	51	32	33	81	89	70	71			
15SV-02	5	184TC		182TC	184TC	18.71	13.93	15.43	12.55	13.93	-	-	18.32	18.32	6.87	8.88	8.86	9.02	8.86	5.51	44	81	92	62	69	125	136	106	113			
15SV-03						20.60	13.93	15.43	12.55	13.93	-	-	20.21	20.21	6.87	8.88	8.86	9.02	8.86	5.51	47	81	92	62	69	128	139	109	116			
15SV-04	7.5	213TC		184TC		22.49	13.88	15.53	13.93	15.43	22.49	11.85	22.10	22.10	8.05	8.89	10.62	8.88	8.86	5.51	50	100	120	75	85	150	170	125	135			
15SV-05	10	215TC		213TC	215TC	24.95	16.63	16.68	15.55	15.51	24.95	13.74	24.56	24.56	8.77	10.62	10.18	10.18	10.28	5.51	59	132	145	107	122	191	204	166	181			
15SV-06						26.86	16.63	16.68	15.55	15.51	26.86	15.63	26.47	26.47	8.77	10.62	10.18	10.18	10.28	5.51	66	132	145	107	122	198	211	173	188			
15SV-07	15	-		215TC	254TC	29.38	-	-	15.55	16.57	29.38	17.52	28.99	28.99	9.22	-	-	10.18	10.28	5.51	74	-	-	125	195	-	-	199	269			
15SV-08						31.27	-	-	15.55	16.57	31.27	19.41	-	30.88	9.22	-	-	10.18	10.28	5.51	76	-	-	125	195	-	-	201	271			
15SV-09						33.16	-	-	15.55	16.57	33.16	21.30	-	32.77	9.22	-	-	10.18	10.28	5.51	79	-	-	125	195	-	-	204	274			
15SV-10	20			254TC	256TC	35.05	-	-	16.66	20.08	35.05	23.19	-	34.66	9.5	-	-	10.18	13.13	5.51	83	-	-	144	285	-	-	227	368			
15SV-11						36.94	-	-	16.66	20.08	36.94	25.08	-	36.55	9.5	-	-	10.18	13.13	5.51	86	-	-	144	285	-	-	230	371			
15SV-12						38.83	-	-	16.66	20.08	-	-	-	38.44	9.5	-	-	10.18	13.13	5.51	89	-	-	144	285	-	-	233	374			
15SV-13	25				284TC	41.35	-	-	21.44	19.54	-	-	-	40.96	12.94	-	-	11.63	12.94	5.51	100	-	-	185	283	-	-	285	383			
15SV-14						43.24	-	-	21.44	19.54	-	-	-	42.85	12.94	-	-	11.63	12.94	5.51	103	-	-	185	283	-	-	288	386			
15SV-15						45.13	-	-	21.44	19.54	-	-	-	44.74	12.94	-	-	11.63	12.94	5.51	106	-	-	185	283	-	-	291	389			

Performance Curve **15SV 3500 RPM** **60 Hz**



MINIMUM FLOW RATE: 18 GPM [4.1 m³/hr]

Dimensions and Weights — 22SV Series 3500 RPM — 60 Hz

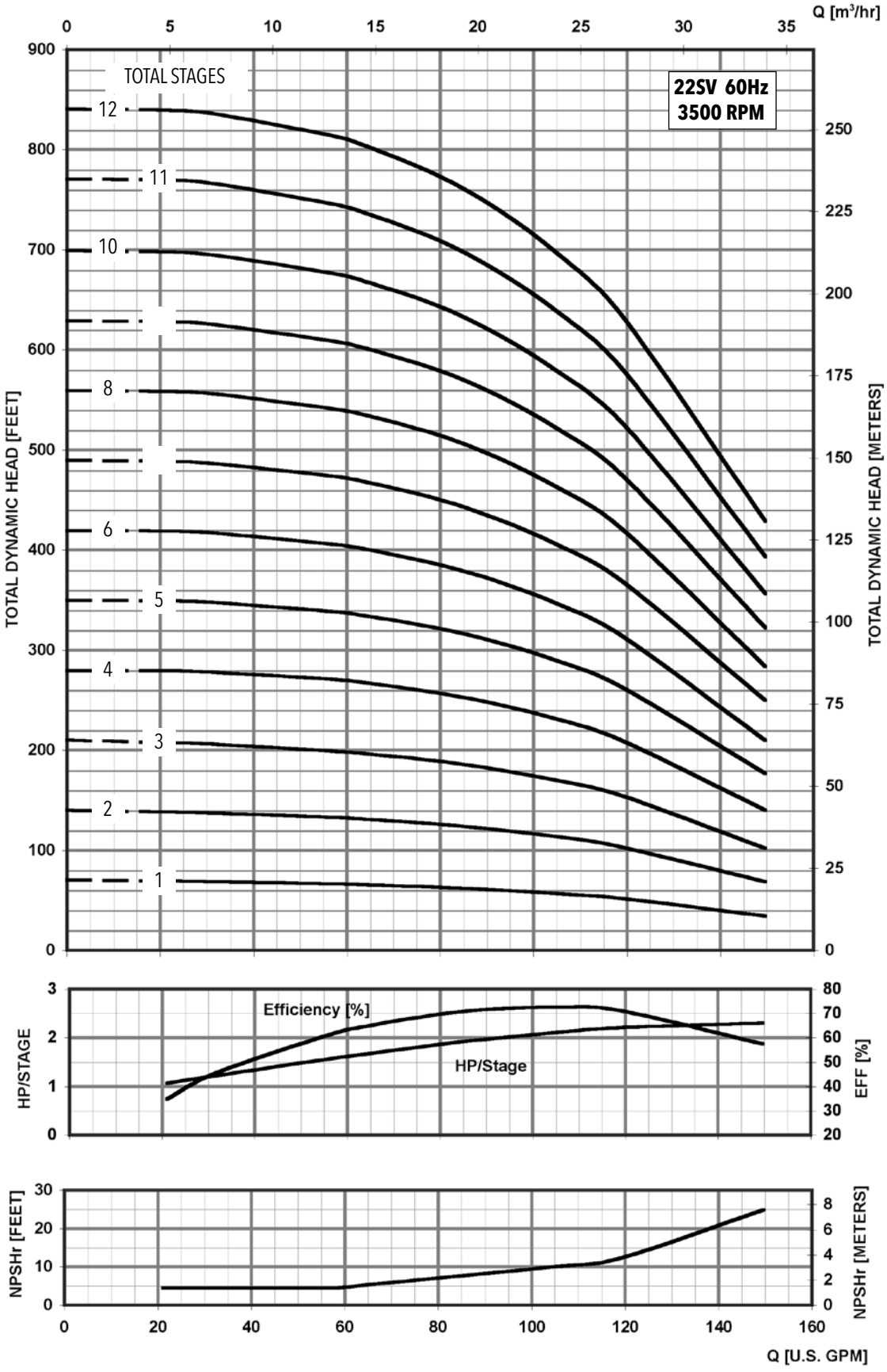


All dimensions are in inches (mm).

22SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor					Dimensions (in)																Weight (lbs.)								
		NEMA Frame					L2									D1 (max.)							Motor					Pump/Motor			
	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
22SV-01	3	56C				18.61	11.57	13.44	11.18	11.16	-	-	18.21	18.21	5.75	6.50	7.19	7.16	7.19	5.51	39	49	64	41	44	88	103	80	83
22SV-02	5	184TC		182TC	184TC	18.71	13.93	15.43	12.55	13.93	-	-	18.32	18.32	6.87	8.88	8.86	9.02	8.86	5.51	45	81	92	62	69	126	137	107	114
22SV-03	7.5	213TC		184TC		20.60	13.88	15.53	13.93	15.43	-	-	20.21	20.21	8.05	8.89	10.62	8.88	8.86	5.51	48	100	120	75	85	148	168	123	133
22SV-04	10	215TC		213TC	215TC	23.06	16.63	16.68	15.55	15.51	23.06	11.85	22.67	22.67	8.77	10.62	10.18	10.18	10.28	5.51	58	132	145	107	122	190	203	165	180
22SV-05	15	-		215TC	254TC	25.60	-	-	15.55	16.57	25.60	13.74	25.21	25.21	9.22	-	-	10.18	10.28	5.51	66	-	-	125	195	-	-	191	261
22SV-06						27.49	-	-	15.55	16.57	27.49	15.63	27.10	27.10	9.22	-	-	10.18	10.28	5.51	69	-	-	125	195	-	-	194	264
22SV-07						29.38	-	-	15.55	16.57	29.38	17.52	28.99	28.99	9.22	-	-	10.18	10.28	5.51	72	-	-	125	195	-	-	197	267
22SV-08	20				256TC	31.27	-	-	16.66	20.08	31.27	19.41	-	30.88	9.50	-	-	10.18	13.13	5.51	75	-	-	144	285	-	-	219	360
22SV-09						33.16	-	-	16.66	20.08	33.16	21.30	-	32.77	9.50	-	-	10.18	13.13	5.51	77	-	-	144	285	-	-	221	362
22SV-10	25			254TC		35.68	-	-	21.44	19.54	35.68	23.19	-	35.29	12.94	-	-	11.63	12.94	5.51	89	-	-	185	283	-	-	274	372
22SV-11					284TC	37.57	-	-	21.44	19.54	37.57	25.08	-	37.18	12.94	-	-	11.63	12.94	5.51	92	-	-	185	283	-	-	277	375
22SV-12						39.46	-	-	21.44	19.54	-	-	-	39.07	12.94	-	-	11.63	12.94	5.51	95	-	-	185	283	-	-	280	378

Performance Curve **22SV 3500 RPM** **60 Hz**

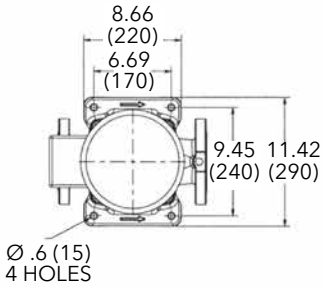


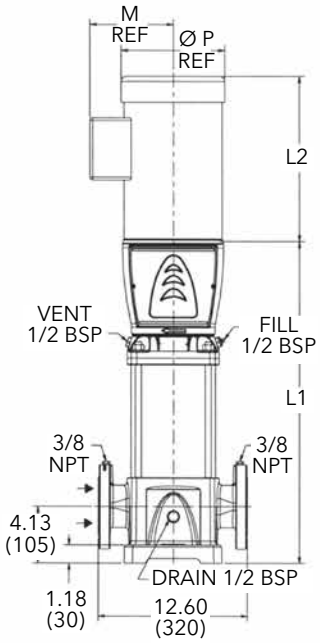
MINIMUM FLOW RATE: 21 GPM [4.8 m³/hr]

Dimensions and Weights

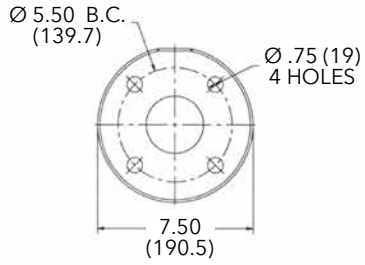
33SV Series 3500 RPM

60 Hz

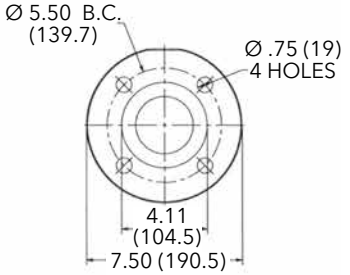




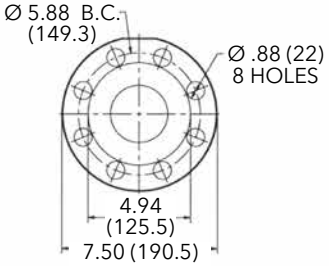
All dimensions are in inches (mm).



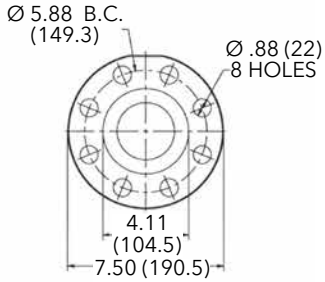
Cast Iron
2½" Class 125 F.F.



316SS
2½" Class 150 R.F.



Cast Iron
2½" Class 250 R.F.



316SS
2½" Class 300 R.F.

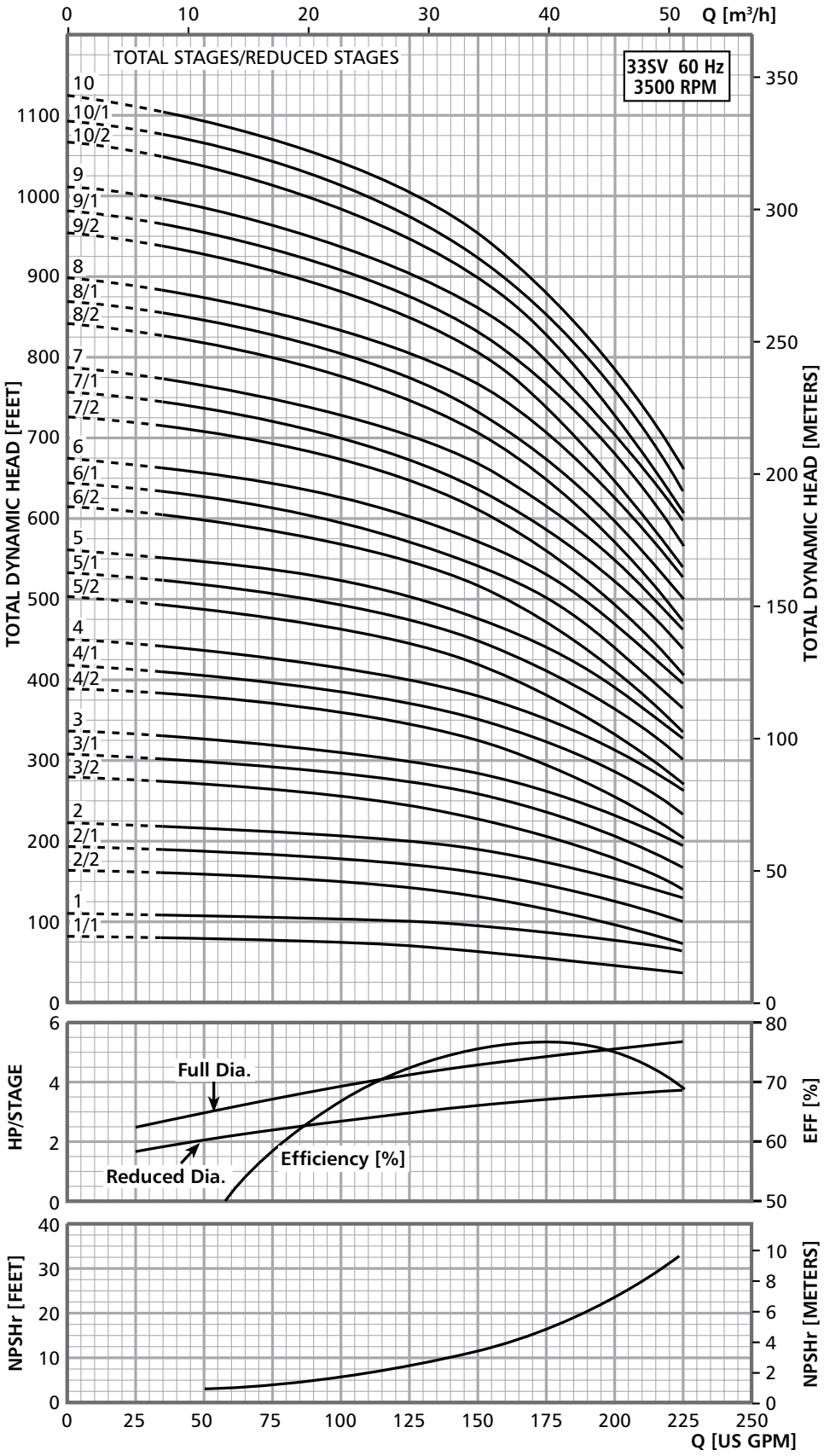
33SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor					Dimensions (in)											Weight (lbs.)								
		NEMA Frame					L2					D1 (max.)						Motor					Pump/Motor			
	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
33SV-1	5	184TC		182TC	184TC	20.62	13.93	15.43	12.55	13.93	6.87	8.88	8.86	9.02	8.86	5.51	132	81	92	62	69	213	224	194	201
33SV-2/2	7.5	213TC		184TC		23.58	13.88	15.53	13.93	15.43	8.05	8.89	10.62	8.88	8.86	5.51	143	100	120	75	85	243	263	218	228
33SV-2/1	10	215TC		213TC	215TC	23.58	16.63	16.68	15.55	15.51	8.77	10.62	10.18	10.18	10.28	4.13	143	132	145	107	122	275	288	250	265
33SV-2						23.58	16.63	16.68	15.55	15.51	8.77	10.62	10.18	10.18	10.28	4.13	143	132	145	107	122	275	288	250	265
33SV-3/2	15	-	-	215TC	254TC	26.54	-	-	15.55	16.57	9.22	-	-	10.18	10.28	4.72	152	-	-	125	195	-	-	277	347
33SV-3/1		-	-			26.54	-	-	15.55	16.57	9.22	-	-	10.18	10.28	4.72	152	-	-	125	195	-	-	277	347
33SV-3		-	-			26.54	-	-	15.55	16.57	9.22	-	-	10.18	10.28	4.72	152	-	-	125	195	-	-	277	347
33SV-4/2	20	-	-	254TC	256TC	29.50	-	-	16.66	20.08	9.50	-	-	10.18	13.13	5.51	161	-	-	144	285	-	-	305	446
33SV-4/1		-	-			29.50	-	-	16.66	20.08	9.50	-	-	10.18	13.13	5.51	161	-	-	144	285	-	-	305	446
33SV-4		-	-			29.50	-	-	16.66	20.08	9.50	-	-	10.18	13.13	5.51	161	-	-	144	285	-	-	305	446
33SV-5/2	25	-	-	254TC	284TC	32.44	-	-	21.44	19.54	12.94	-	-	11.63	12.94	5.51	172	-	-	185	283	-	-	357	455
33SV-5/1		-	-			32.44	-	-	21.44	19.54	12.94	-	-	11.63	12.94	5.51	172	-	-	185	283	-	-	357	455
33SV-5		-	-			32.44	-	-	21.44	19.54	12.94	-	-	11.63	12.94	5.51	186	-	-	185	283	-	-	371	469
33SV-6/2	30	-	-	284TC	286TC	35.40	-	-	21.75	19.54	12.21	-	-	13.25	12.94	5.51	194	-	-	296	382	-	-	490	576
33SV-6/1		-	-			35.40	-	-	21.75	19.54	12.21	-	-	13.25	12.94	5.51	194	-	-	296	382	-	-	490	576
33SV-6		-	-			35.40	-	-	21.75	19.54	12.21	-	-	13.25	12.94	5.51	194	-	-	296	382	-	-	490	576
33SV-7/2	40	-	-	286TC		38.55	-	-	21.75	23.18	13.11	-	-	13.25	15.56	5.51	204	-	-	315	446	-	-	519	650
33SV-7/1		-	-			38.55	-	-	21.75	23.18	13.11	-	-	13.25	15.56	5.51	204	-	-	315	446	-	-	519	650
33SV-7		-	-			38.55	-	-	21.75	23.18	13.11	-	-	13.25	15.56	5.51	204	-	-	315	446	-	-	519	650
33SV-8/2		-	-			41.30	-	-	21.75	23.18	13.11	-	-	13.25	15.56	5.51	221	-	-	315	446	-	-	536	667
33SV-8/1		-	-			41.30	-	-	21.75	23.18	13.11	-	-	13.25	15.56	5.51	229	-	-	315	446	-	-	544	675
33SV-8		-	-			41.30	-	-	21.75	23.18	13.11	-	-	13.25	15.56	5.51	229	-	-	315	446	-	-	544	675
33SV-9/2	50	-	-	324TSC	326TSC	44.25	-	-	22.75	23.19	12.21	-	-	13.03	15.69	5.51	238	-	-	320	450	-	-	558	688
33SV-9/1		-	-			44.25	-	-	22.75	23.19	12.21	-	-	13.03	15.69	5.51	238	-	-	320	450	-	-	558	688
33SV-9		-	-			44.25	-	-	22.75	23.19	12.21	-	-	13.03	15.69	5.51	238	-	-	320	450	-	-	558	688
33SV-10/2		-	-			47.20	-	-	22.75	23.19	12.21	-	-	13.03	15.69	5.51	249	-	-	320	450	-	-	569	699
33SV-10/1		-	-			47.20	-	-	22.75	23.19	12.21	-	-	13.03	15.69	5.51	249	-	-	320	450	-	-	569	699
33SV-10		-	-			47.20	-	-	22.75	23.19	12.21	-	-	13.03	15.69	5.51	249	-	-	320	450	-	-	569	699

Performance Curve

33SV 3500 RPM

60 Hz

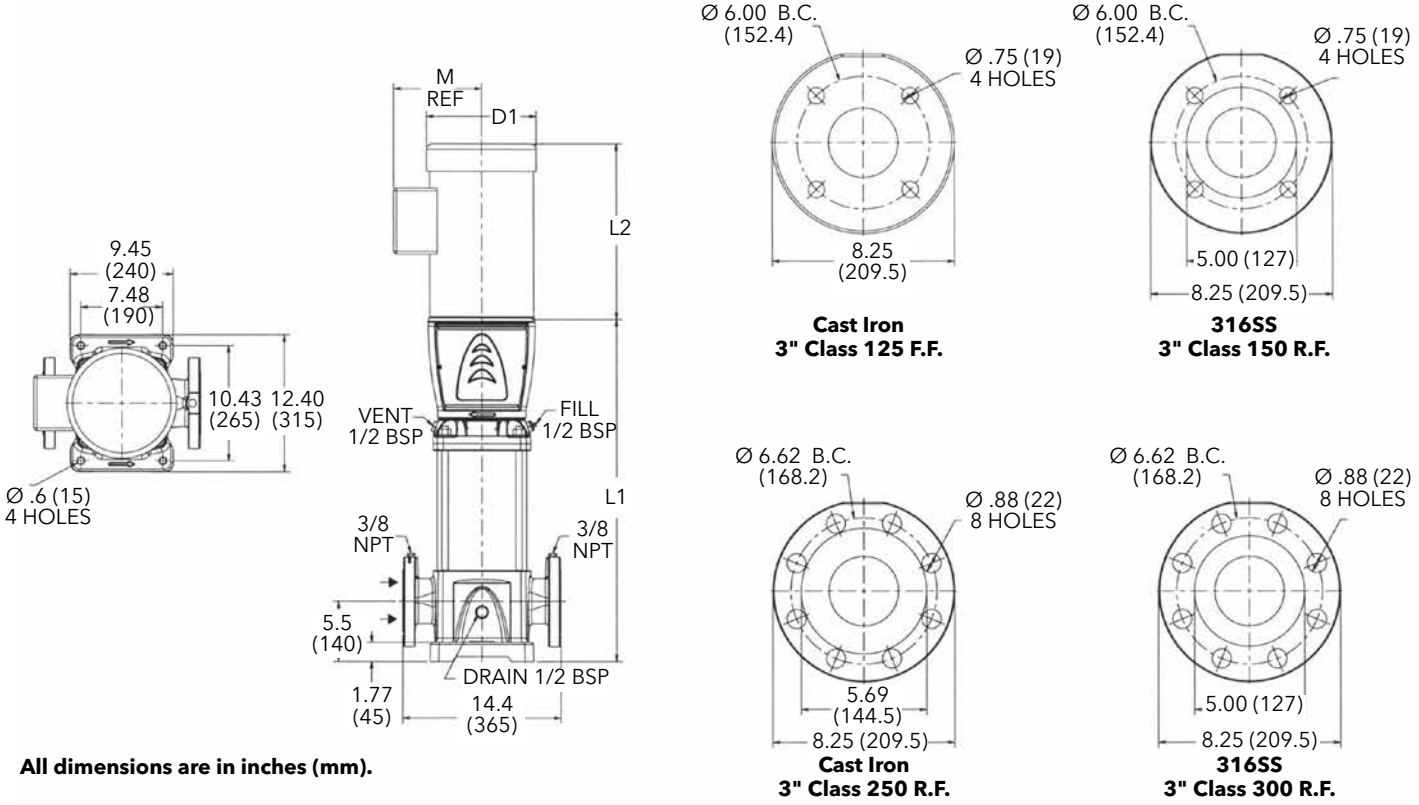


MINIMUM FLOW RATE: 35 GPM [8 m³/hr]

Dimensions and Weights

46SV Series 3500 RPM

60 Hz



All dimensions are in inches (mm).

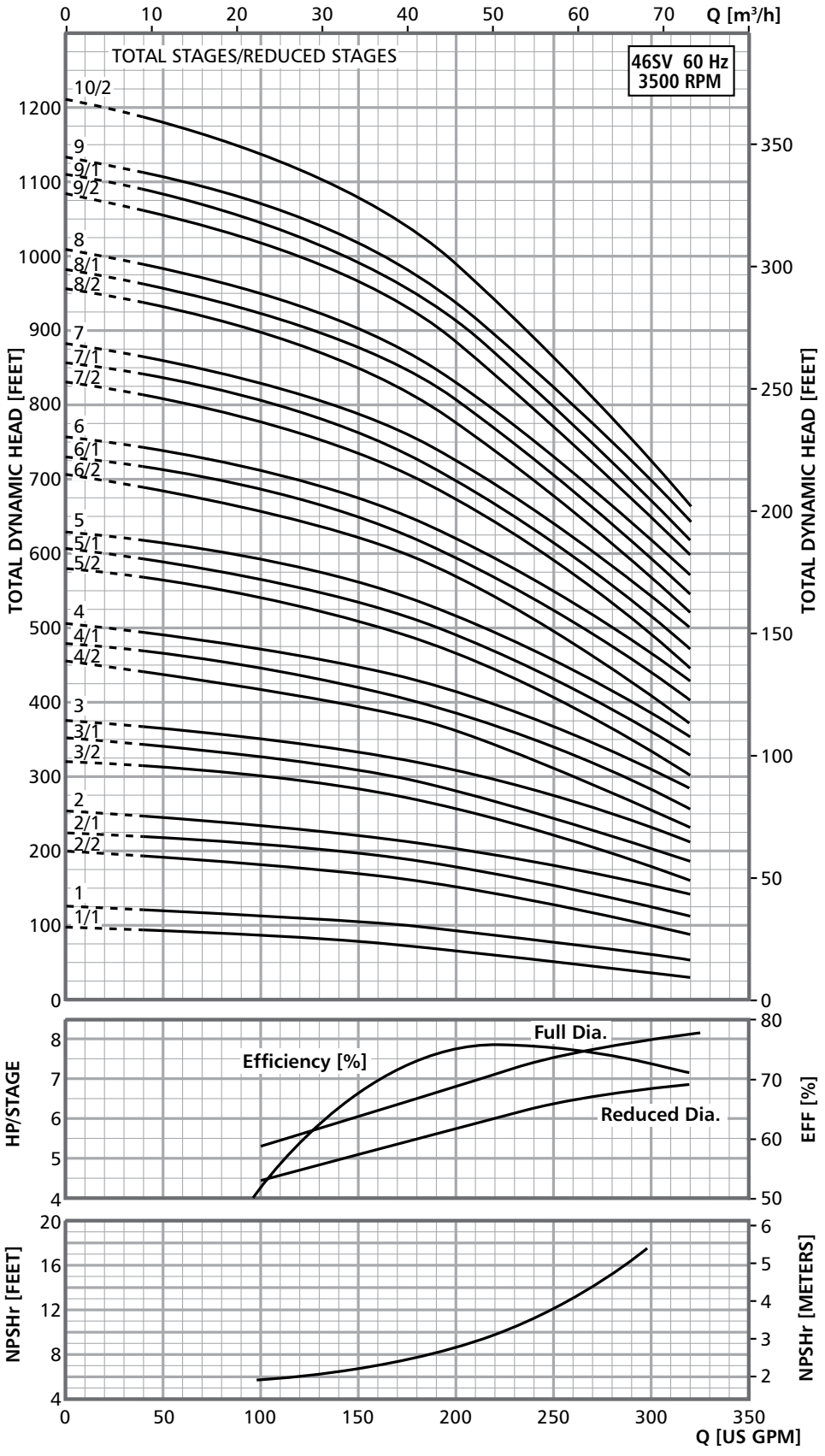
46SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor					Dimensions (in)											Weight (lbs.)								
		NEMA Frame					L2				M	D1 (max.)				D2	Pump	Motor				Pump/Motor			
	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	(Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
46SV-1	10	213TC		215TC		22.19	16.63	16.68	15.55	15.51	8.77	10.62	10.18	10.18	10.28	4.13	174	132	145	107	122	306	319	281	296
46SV-2/2	15	-	-	215TC	254TC	25.19	-	-	15.55	16.57	9.22	-	-	10.18	10.28	4.72	158	-	-	125	195	-	-	283	353
46SV-2/1		-	-			25.19	-	-	15.55	16.57	9.22	-	-	10.18	10.28	4.72	158	-	-	125	195	-	-	283	353
46SV-2		-	-			25.19	-	-	15.55	16.57	9.22	-	-	10.18	10.28	4.72	158	-	-	125	195	-	-	283	353
46SV-3/2	20	-	-	254TC	256TC	28.12	-	-	16.66	20.08	9.50	-	-	10.18	13.13	5.51	169	-	-	144	285	-	-	313	454
46SV-3/1		-	-			28.12	-	-	16.66	20.08	9.50	-	-	10.18	13.13	5.51	169	-	-	144	285	-	-	313	454
46SV-3	25	-	-	254TC	284TC	29.63	-	-	21.44	19.54	12.94	-	-	11.63	12.94	5.51	183	-	-	185	283	-	-	368	466
46SV-4/2	30	-	-	284TC	286TC	32.63	-	-	21.75	19.54	12.21	-	-	13.25	12.94	5.51	192	-	-	296	382	-	-	488	574
46SV-4/1		-	-			32.63	-	-	21.75	19.54	12.21	-	-	13.25	12.94	5.51	192	-	-	296	382	-	-	488	574
46SV-4		-	-			32.63	-	-	21.75	19.54	12.21	-	-	13.25	12.94	5.51	192	-	-	296	382	-	-	488	574
46SV-5/2	40	-	-	286TC	286TC	35.56	-	-	21.75	23.18	13.11	-	-	13.25	15.56	5.51	199	-	-	315	446	-	-	514	645
46SV-5/1		-	-			35.56	-	-	21.75	23.18	13.11	-	-	13.25	15.56	5.51	199	-	-	315	446	-	-	514	645
46SV-5		-	-			35.56	-	-	21.75	23.18	13.11	-	-	13.25	15.56	5.51	199	-	-	315	446	-	-	514	645
46SV-6/2		-	-			38.50	-	-	21.75	23.18	13.11	-	-	13.25	15.56	5.51	208	-	-	315	446	-	-	523	654
46SV-6/1	50	-	-	324TSC	326TSC	38.00	-	-	22.75	23.19	12.21	-	-	13.03	15.69	5.51	216	-	-	320	450	-	-	536	666
46SV-6		-	-			38.00	-	-	22.75	23.19	12.21	-	-	13.03	15.69	5.51	216	-	-	320	450	-	-	536	666
46SV-7/2		-	-			40.94	-	-	22.75	23.19	12.21	-	-	13.03	15.69	5.51	233	-	-	320	450	-	-	553	683
46SV-7/1		-	-			40.94	-	-	22.75	23.19	12.21	-	-	13.03	15.69	5.51	233	-	-	320	450	-	-	553	683
46SV-7	60	-	-			40.94	-	-	22.75	30.69	14.95	-	-	13.03	19.25	5.51	233	-	-	372	689	-	-	605	922
46SV-8/2		-	-			43.94	-	-	22.75	30.69	14.95	-	-	13.03	19.25	5.51	242	-	-	372	689	-	-	614	931
46SV-8/1		-	-			43.94	-	-	22.75	30.69	14.95	-	-	13.03	19.25	5.51	242	-	-	372	689	-	-	614	931
46SV-8		-	-			43.94	-	-	22.75	30.69	14.95	-	-	13.03	19.25	5.51	242	-	-	372	689	-	-	614	931
46SV-9/2	75	-	-	364TSC	365TSC	46.88	-	-	24.38	30.69	14.95	-	-	15.13	19.25	5.51	253	-	-	447	747	-	-	700	1000
46SV-9/1		-	-			46.88	-	-	24.38	30.69	14.95	-	-	15.13	19.25	5.51	253	-	-	447	747	-	-	700	1000
46SV-9		-	-			46.88	-	-	24.38	30.69	14.95	-	-	15.13	19.25	5.51	253	-	-	447	747	-	-	700	1000
46SV-10/2		-	-			49.81	-	-	24.38	30.69	14.95	-	-	15.13	19.25	5.51	264	-	-	447	747	-	-	711	1011

Performance Curve

46SV 3500 RPM

60 Hz

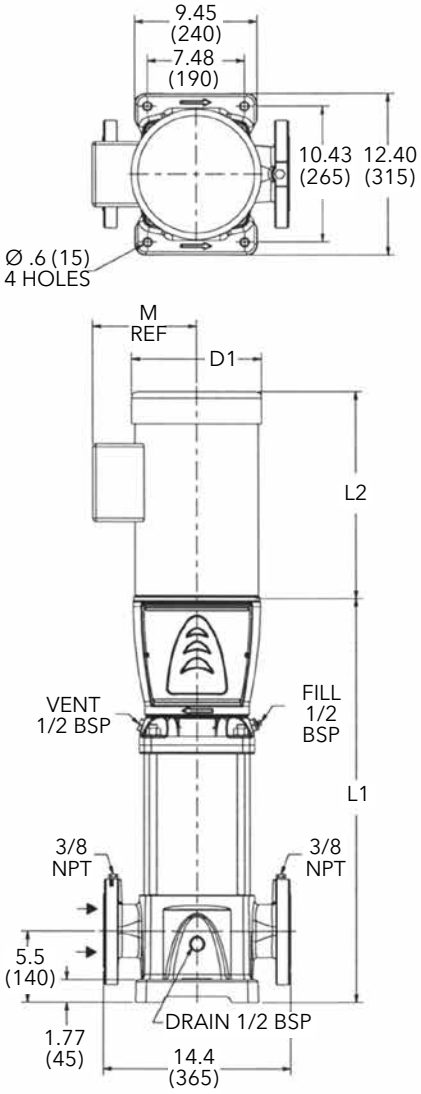


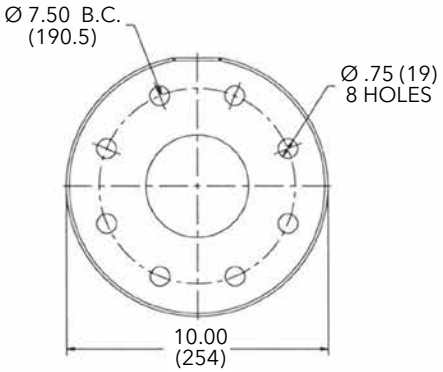
MINIMUM FLOW RATE: 40 GPM [9 m³/hr]

Dimensions and Weights

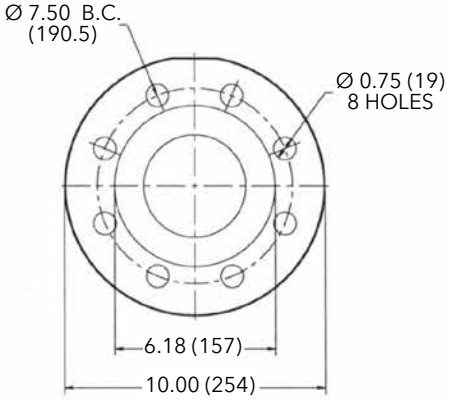
66SV Series 3500 RPM

60 Hz

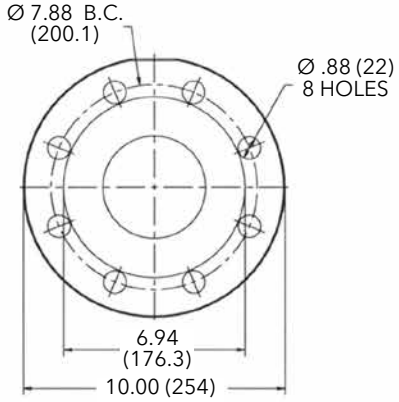




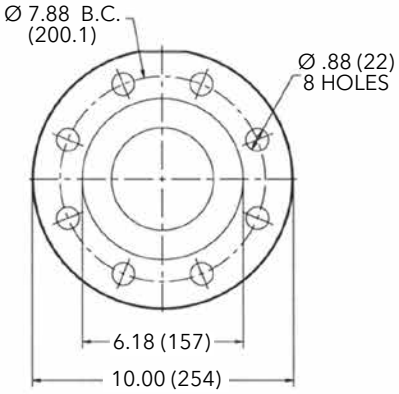
Cast Iron
4" Class 125 F.F.



316SS
4" Class 150 R.F.



Cast Iron
4" Class 250 R.F.



316SS
4" Class 300 R.F.

All dimensions are in inches (mm).

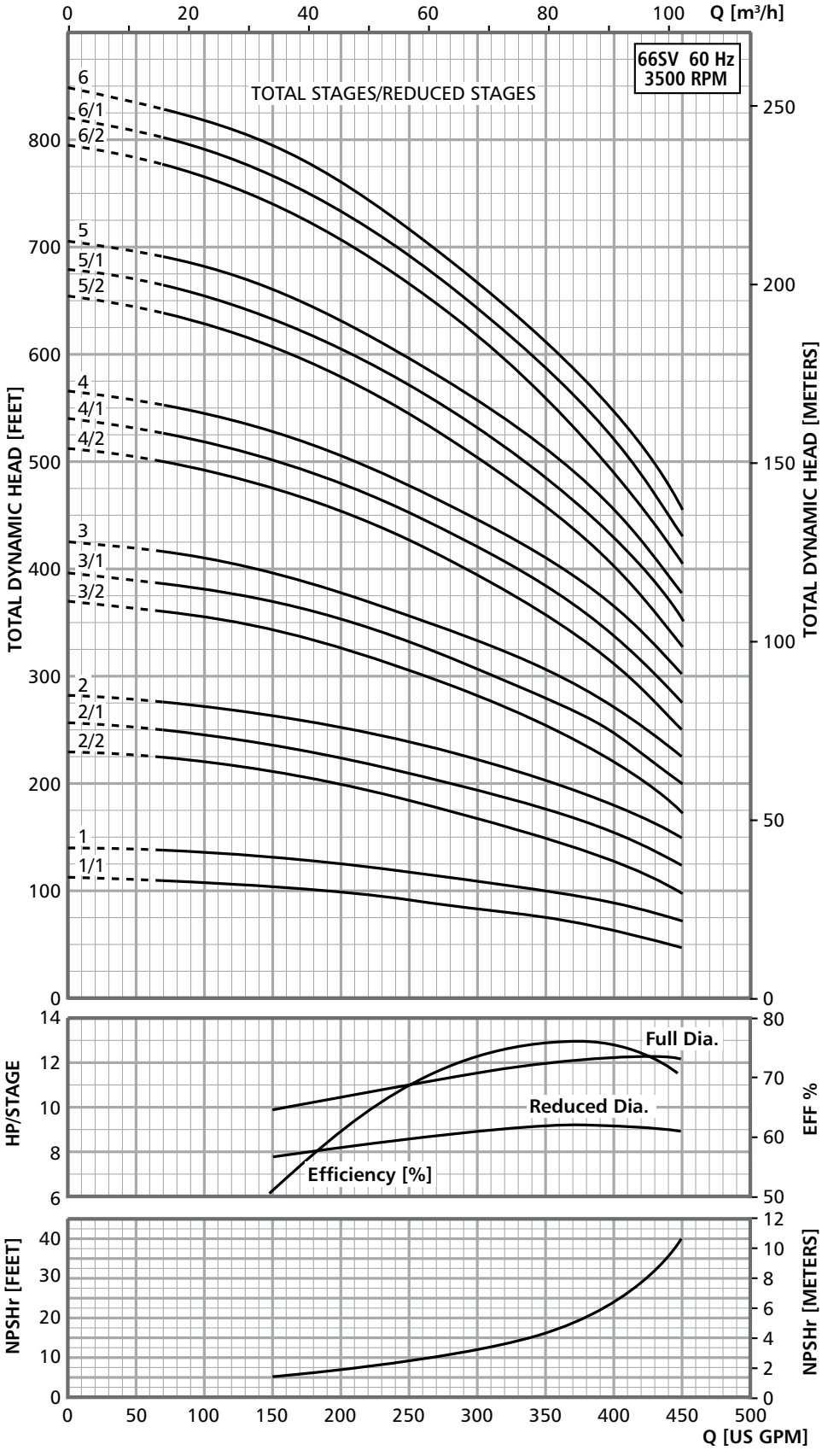
66SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor					Dimensions (in)											Weight (lbs.)								
		NEMA Frame					L2					D1 (max.)						Motor					Pump/Motor			
	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
66SV-1	15	-	-	215TC	254TC	23.19	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	185	-	-	128	250	-	-	313	435
66SV-2/2	20	-	-	254TC	256TC	26.75	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	220	280	-	-	416	476
66SV-2/1		-	-			26.75	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	220	280	-	-	416	476
66SV-2	25	-	-	256TC	284TC	28.31	-	-	18.00	23.38	13.12	-	-	11.63	15.31	5.51	210	-	-	240	420	-	-	450	630
66SV-3/2	30	-	-	284TC	284TC	31.81	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	325	445	-	-	548	668
66SV-3/1		-	-			31.81	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	325	445	-	-	548	668
66SV-3	40	-	-			31.81	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	328	448	-	-	551	671
66SV-4/2		-	-			35.38	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	234	-	-	328	448	-	-	562	682
66SV-4/1	50	-	-	326TSC	326TSC	34.88	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	242	-	-	382	592	-	-	624	834
66SV-4		-	-			34.88	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	242	-	-	382	592	-	-	624	834
66SV-5/2		-	-			38.44	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	252	-	-	382	592	-	-	634	844
66SV-5/1	60	-	-	326TSC	364TSC	38.44	-	-	22.50	27.22	14.96	-	-	13.25	19.00	5.51	252	-	-	474	736	-	-	726	988
66SV-5		-	-			38.44	-	-	22.50	27.22	14.96	-	-	13.25	19.00	5.51	252	-	-	474	736	-	-	726	988
66SV-6/2	75	-	-	365TSC	365TSC	41.94	-	-	24.12	27.22	14.96	-	-	15.12	19.00	5.51	266	-	-	500	762	-	-	766	1028
66SV-6/1		-	-			41.94	-	-	24.12	27.22	14.96	-	-	15.12	19.00	5.51	266	-	-	500	762	-	-	766	1028
66SV-6		-	-			41.94	-	-	24.12	27.22	14.96	-	-	15.12	19.00	5.51	266	-	-	500	762	-	-	766	1028

Performance Curve

66SV 3500 RPM

60 Hz

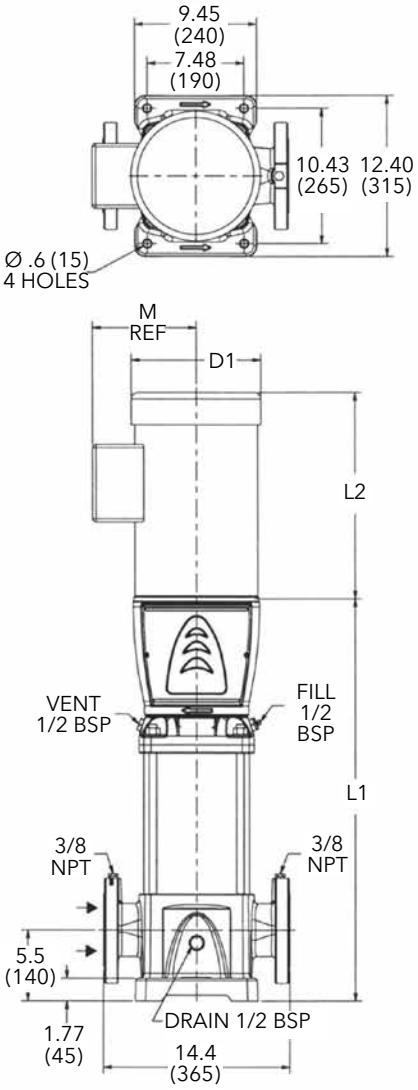


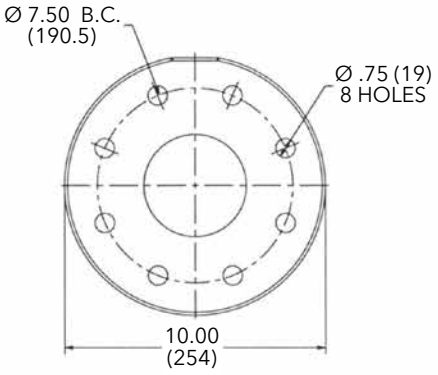
MINIMUM FLOW RATE: 70 GPM [16 m³/hr]

Dimensions and Weights

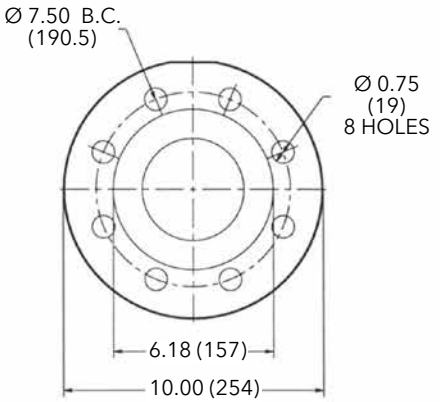
92SV Series 3500 RPM

60 Hz

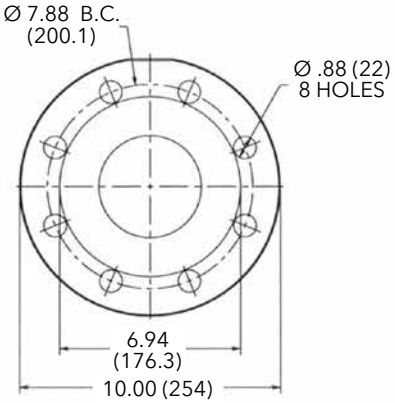




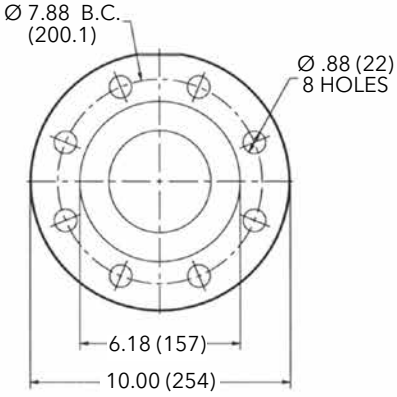
Cast Iron
4" Class 125 F.F.



316SS
4" Class 150 R.F.



Cast Iron
4" Class 250 R.F.



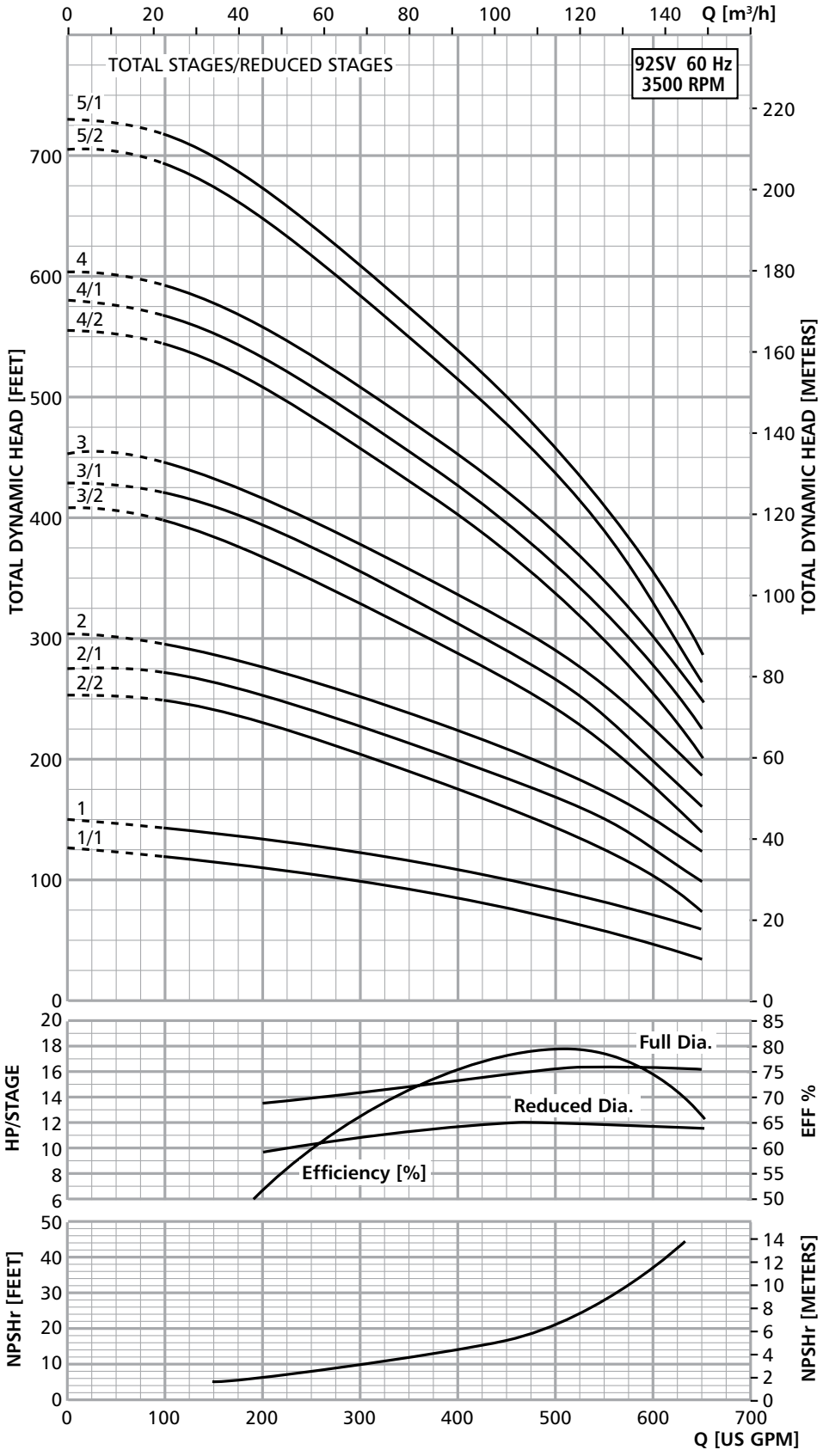
316SS
4" Class 300 R.F.

All dimensions are in inches (mm).

92SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor					Dimensions (in)											Weight (lbs.)								
		NEMA Frame					L2					D1 (max.)						Motor					Pump/Motor			
	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
92SV-1	15	-	-	215TC	254TC	23.19	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	185	-	-	128	250	-	-	313	435
92SV-2/2	25	-	-	256TC	284TC	28.31	-	-	18.00	23.38	13.12	-	-	11.63	15.31	5.51	210	-	-	240	420	-	-	450	630
92SV-2/1	30	-	-	284TC	284TC	28.31	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	210	-	-	325	445	-	-	535	655
92SV-2		-	-			28.31	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	210	-	-	325	445	-	-	535	655
92SV-3/2	40	-	-	284TC	284TC	31.18	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	328	448	-	-	551	671
92SV-3/1		-	-			31.18	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	328	448	-	-	551	671
92SV-3	50	-	-	326TSC	326TSC	31.28	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	231	-	-	382	592	-	-	613	823
92SV-4/2	60	-	-	326TSC	364TSC	34.88	-	-	22.50	27.22	13.12	-	-	13.25	19.00	5.51	242	-	-	474	736	-	-	716	978
92SV-4/1		-	-			34.88	-	-	22.50	27.22	13.12	-	-	13.25	19.00	5.51	242	-	-	474	736	-	-	716	978
92SV-4		-	-			34.88	-	-	22.50	27.22	13.12	-	-	13.25	19.00	5.51	242	-	-	474	736	-	-	716	978
92SV-5/2	75	-	-	365TSC	365TSC	38.44	-	-	24.12	27.22	14.96	-	-	15.12	19.00	5.51	252	-	-	500	762	-	-	752	1014
92SV-5/1		-	-			38.44	-	-	24.12	27.22	14.96	-	-	15.12	19.00	5.51	252	-	-	500	762	-	-	752	1014

Performance Curve **92SV 3500 RPM** **60 Hz**

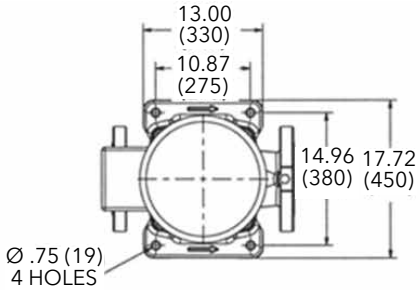


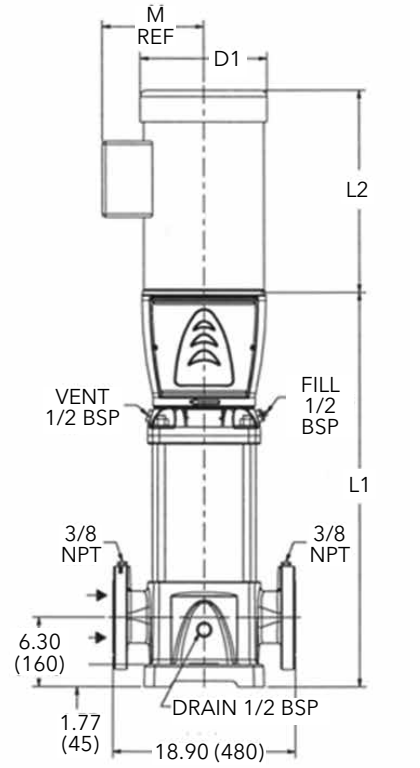
MINIMUM FLOW RATE: 100 GPM [23 m³/hr]

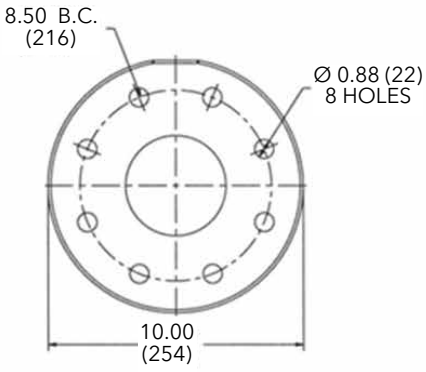
Dimensions and Weights

125SV Series 3500 RPM

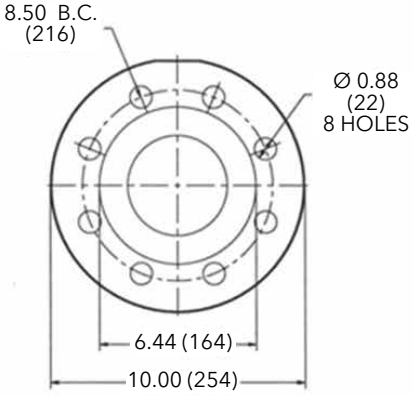
60 Hz



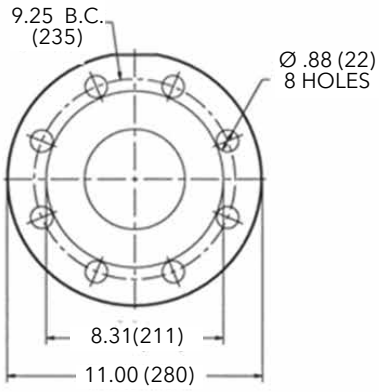




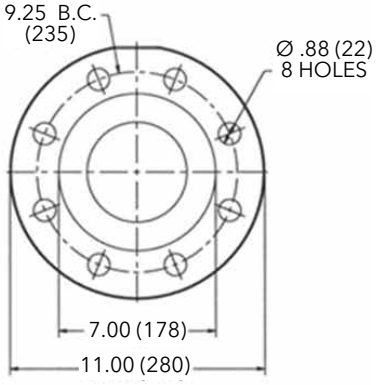
Cast Iron
5" Class 125 F.F.



316SS
5" Class 150 R.F.



Cast Iron
5" Class 250 R.F.



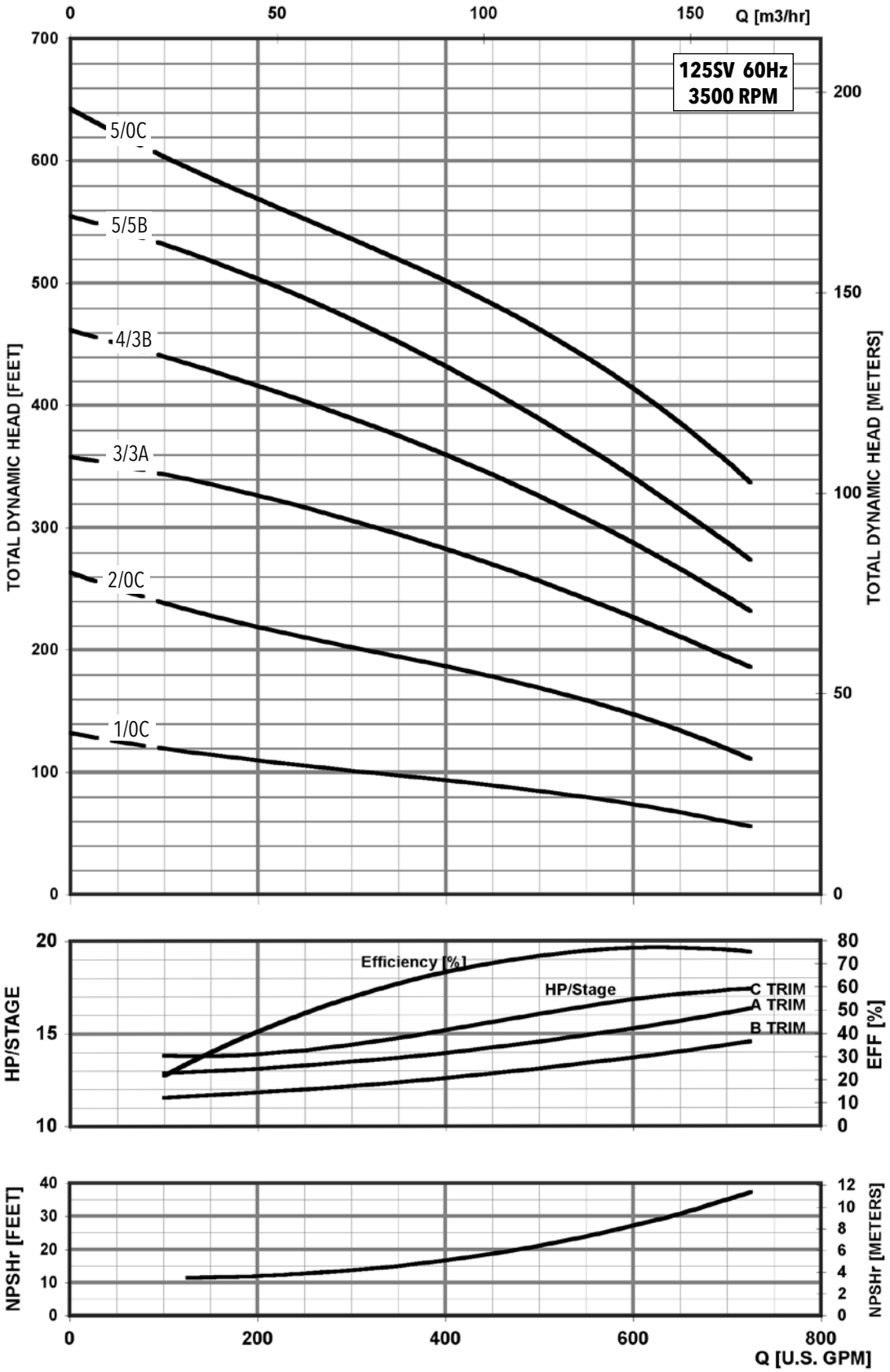
316SS
5" Class 300 R.F.

All dimensions are in inches (mm).

125SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

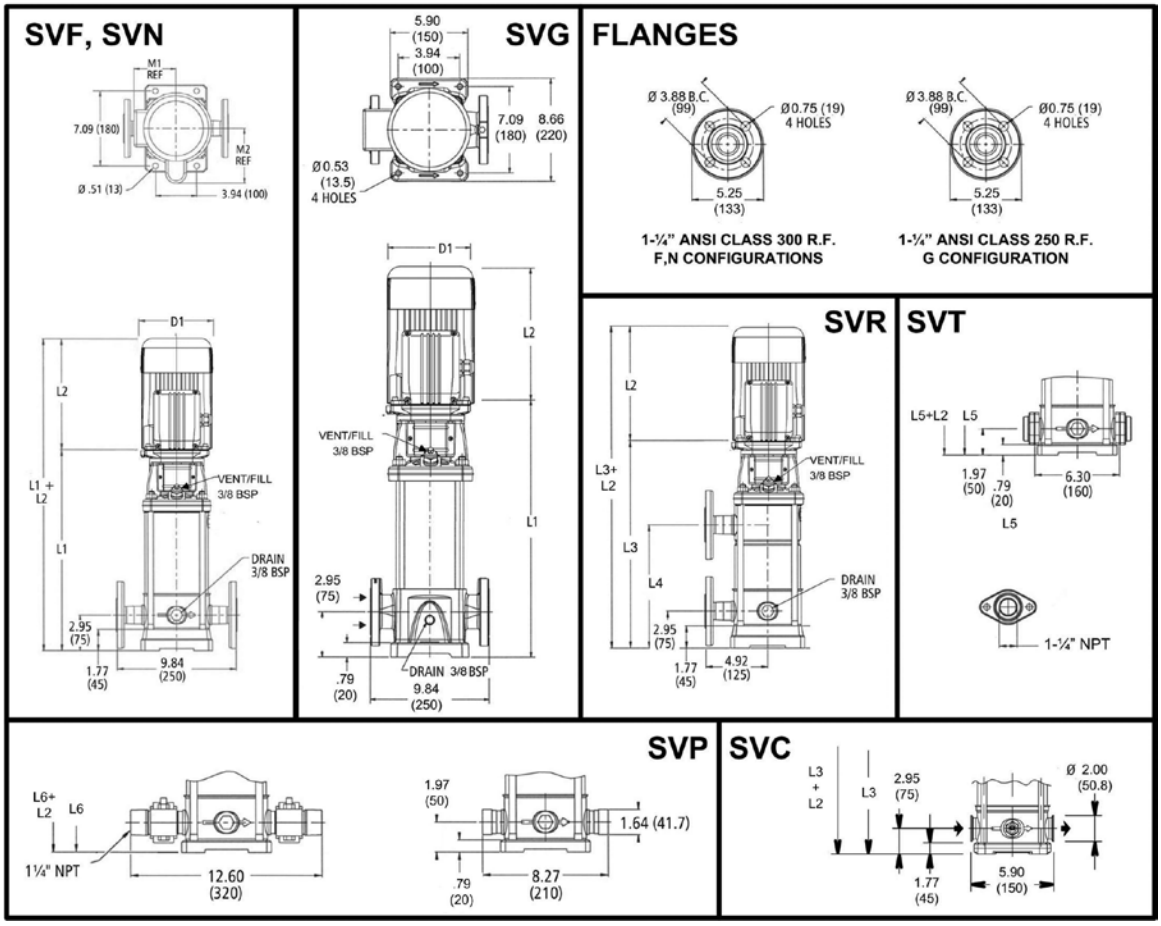
	Motor					Dimensions (in)															Weight (lbs.)								
		NEMA Frame					L2									D1 (max.)						Motor				Pump/Motor			
Pump Type	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
125SV1/0C	15	-	-	215TC	254TC	27.30	-	-	15.55	16.57	-	-	-	-	9.22	-	-	10.18	10.28	4.72	256	-	-	125	195	-	-	381	451
125SV2/0C	30	-	-	284TC	286TC	34.57	-	-	21.75	19.54	-	-	-	-	12.21	-	-	13.25	12.94	5.51	289	-	-	296	382	-	-	585	671
125SV3/3A	40	-	-	286TC	286TC	40.47	-	-	21.75	23.18	-	-	-	-	13.11	-	-	13.25	15.56	5.51	315	-	-	315	446	-	-	630	761
125SV4/3B	50	-	-	324TSC	326TSC	46.40	-	-	22.75	23.19	-	-	-	-	12.21	-	-	13.03	15.69	5.51	355	-	-	320	450	-	-	675	805
125SV5/5B	60	-	-	324TSC	326TSC	52.30	-	-	22.75	30.69	-	-	-	-	14.95	-	-	13.03	19.25	5.51	379	-	-	372	689	-	-	751	1068
125SV5/0C	75	-	-	364TSC	365TSC	52.28	-	-	24.38	30.69	-	-	-	-	14.95	-	-	15.13	19.25	5.51	379	-	-	447	747	-	-	826	1126

Performance Curve **125SV 3500 RPM** **60 Hz**



MINIMUM FLOW RATE: 100 GPM [20 m³/hr]

Dimensions and Weights — 1SV Series 1750 RPM — 60 Hz

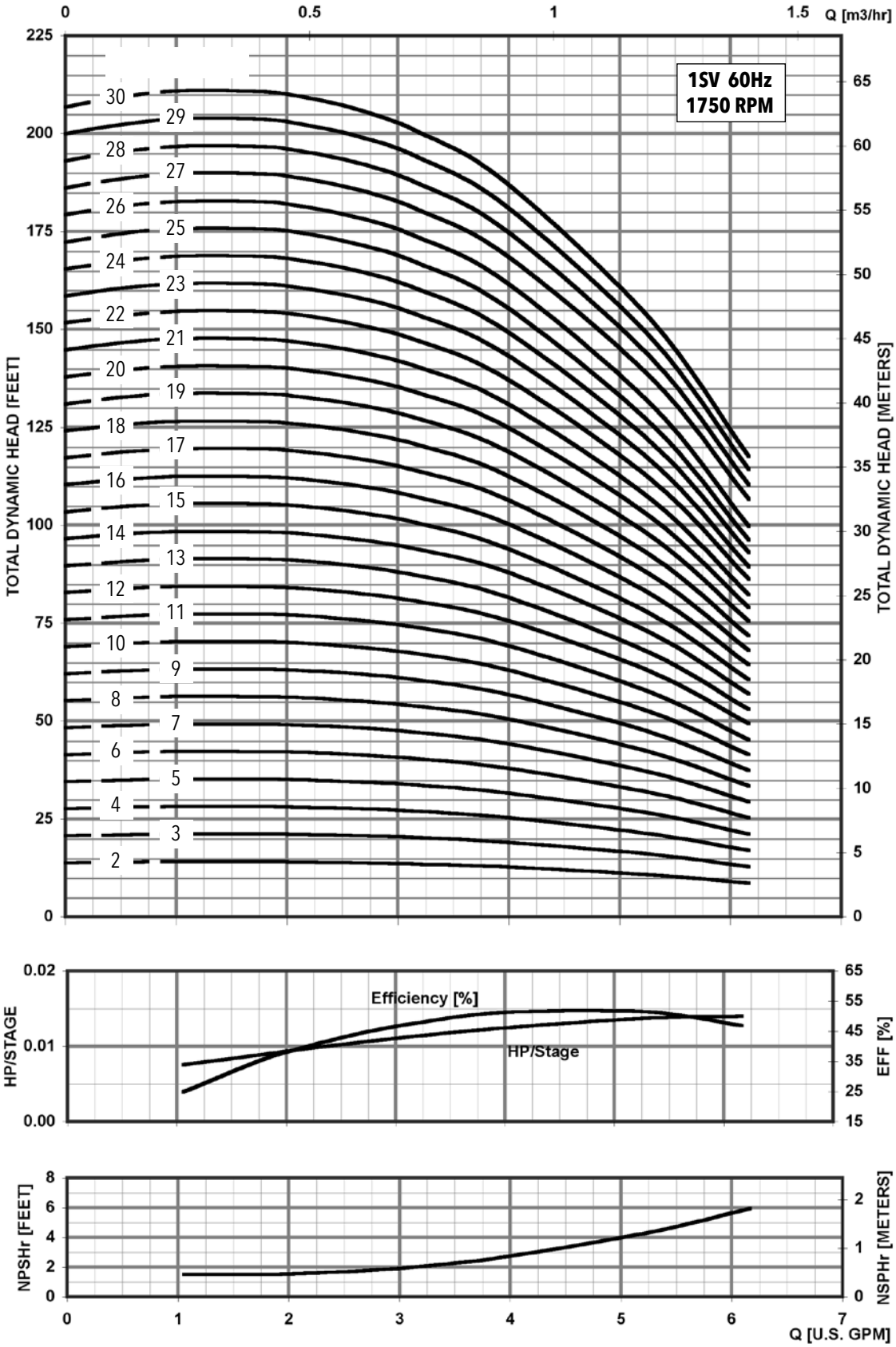


All dimensions are in inches (mm).

1SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor					Dimensions (in)																Weight (lbs.)								
		NEMA Frame					L2								D1 (max.)								Motor				Pump/Motor			
	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
1SV-02						13.27	9.16	9.29	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	25	21	21	19	19	46	46	44	44
1SV-03						13.27	9.16	9.29	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	26	21	21	19	19	47	47	45	45
1SV-04						14.06	9.16	9.29	9.16	9.29	-	-	13.07	13.07	5.19	6.19	6.19	6.19	6.19	4.13	27	21	21	19	19	48	48	46	46
1SV-05						14.85	9.16	9.29	9.16	9.29	-	-	13.86	13.86	5.19	6.19	6.19	6.19	6.19	4.13	28	21	21	19	19	49	49	47	47
1SV-06						15.63	9.16	9.29	9.16	9.29	-	-	14.65	14.65	5.19	6.19	6.19	6.19	6.19	4.13	28	21	21	19	19	49	49	47	47
1SV-07						16.42	9.16	9.29	9.16	9.29	-	-	15.44	15.44	5.19	6.19	6.19	6.19	6.19	4.13	29	21	21	19	19	50	50	48	48
1SV-08						17.21	9.16	9.29	9.16	9.29	17.21	8.94	16.22	16.22	5.19	6.19	6.19	6.19	6.19	4.13	30	21	21	19	19	51	51	49	49
1SV-09						18.00	9.16	9.29	9.16	9.29	18.00	9.72	17.01	17.01	5.19	6.19	6.19	6.19	6.19	4.13	31	21	21	19	19	52	52	50	50
1SV-10						18.78	9.16	9.29	9.16	9.29	18.78	10.51	17.80	17.80	5.19	6.19	6.19	6.19	6.19	4.13	32	21	21	19	19	53	53	51	51
1SV-11						19.57	9.16	9.29	9.16	9.29	19.57	11.30	18.59	18.59	5.19	6.19	6.19	6.19	6.19	4.13	33	21	21	19	19	54	54	52	52
1SV-12						20.36	9.16	9.29	9.16	9.29	20.36	12.09	19.37	19.37	5.19	6.19	6.19	6.19	6.19	4.13	34	21	21	19	19	55	55	53	53
1SV-13						21.14	9.16	9.29	9.16	9.29	21.14	12.87	20.16	20.16	5.19	6.19	6.19	6.19	6.19	4.13	35	21	21	19	19	56	56	54	54
1SV-14						21.93	9.16	9.29	9.16	9.29	21.93	13.66	20.95	20.95	5.19	6.19	6.19	6.19	6.19	4.13	36	21	21	19	19	57	57	55	55
1SV-15						22.72	9.16	9.29	9.16	9.29	22.72	14.45	21.74	21.74	5.19	6.19	6.19	6.19	6.19	4.13	37	21	21	19	19	58	58	56	56
1SV-16	0.5			56C		23.51	9.16	9.29	9.16	9.29	23.51	15.24	22.52	22.52	5.19	6.19	6.19	6.19	6.19	4.13	38	21	21	19	19	59	59	57	57
1SV-17						24.29	9.16	9.29	9.16	9.29	24.29	16.02	23.31	23.31	5.19	6.19	6.19	6.19	6.19	4.13	38	21	21	19	19	59	59	57	57
1SV-18						25.08	9.16	9.29	9.16	9.29	25.08	16.81	24.10	24.10	5.19	6.19	6.19	6.19	6.19	4.13	39	21	21	19	19	60	60	58	58
1SV-19						25.87	9.16	9.29	9.16	9.29	25.87	17.60	24.89	24.89	5.19	6.19	6.19	6.19	6.19	4.13	40	21	21	19	19	61	61	59	59
1SV-20						26.66	9.16	9.29	9.16	9.29	26.66	18.39	25.67	25.67	5.19	6.19	6.19	6.19	6.19	4.13	41	21	21	19	19	62	62	60	60
1SV-21						27.44	9.16	9.29	9.16	9.29	27.44	19.17	26.46	26.46	5.19	6.19	6.19	6.19	6.19	4.13	42	21	21	19	19	63	63	61	61
1SV-22						28.23	9.16	9.29	9.16	9.29	28.23	19.96	27.25	27.25	5.19	6.19	6.19	6.19	6.19	4.13	43	21	21	19	19	64	64	62	62
1SV-23						29.02	9.16	9.29	9.16	9.29	29.02	20.75	28.03	28.03	5.19	6.19	6.19	6.19	6.19	4.13	45	21	21	19	19	66	66	64	64
1SV-24						29.81	9.16	9.29	9.16	9.29	29.81	21.54	28.82	28.82	5.19	6.19	6.19	6.19	6.19	4.13	46	21	21	19	19	67	67	65	65
1SV-25						30.59	9.16	9.29	9.16	9.29	30.59	22.32	29.61	29.61	5.19	6.19	6.19	6.19	6.19	4.13	47	21	21	19	19	68	68	66	66
1SV-26						31.38	9.16	9.29	9.16	9.29	31.38	23.11	30.40	30.40	5.19	6.19	6.19	6.19	6.19	4.13	47	21	21	19	19	68	68	66	66
1SV-27						32.17	9.16	9.29	9.16	9.29	32.17	23.90	31.18	31.18	5.19	6.19	6.19	6.19	6.19	4.13	48	21	21	19	19	69	69	67	67
1SV-28						32.96	9.16	9.29	9.16	9.29	32.96	24.68	31.97	31.97	5.19	6.19	6.19	6.19	6.19	4.13	49	21	21	19	19	70	70	68	68
1SV-29						34.14	9.16	9.29	9.16	9.29	34.14	25.47	33.15	33.15	5.19	6.19	6.19	6.19	6.19	4.13	50	21	21	19	19	71	71	69	69
1SV-30						34.53	9.16	9.29	9.16	9.29	34.53	26.26	33.55	33.55	5.19	6.19	6.19	6.19	6.19	4.13	51	21	21	19	19	72	72	70	70

Performance Curve **1SV 1750 RPM** **60 Hz**

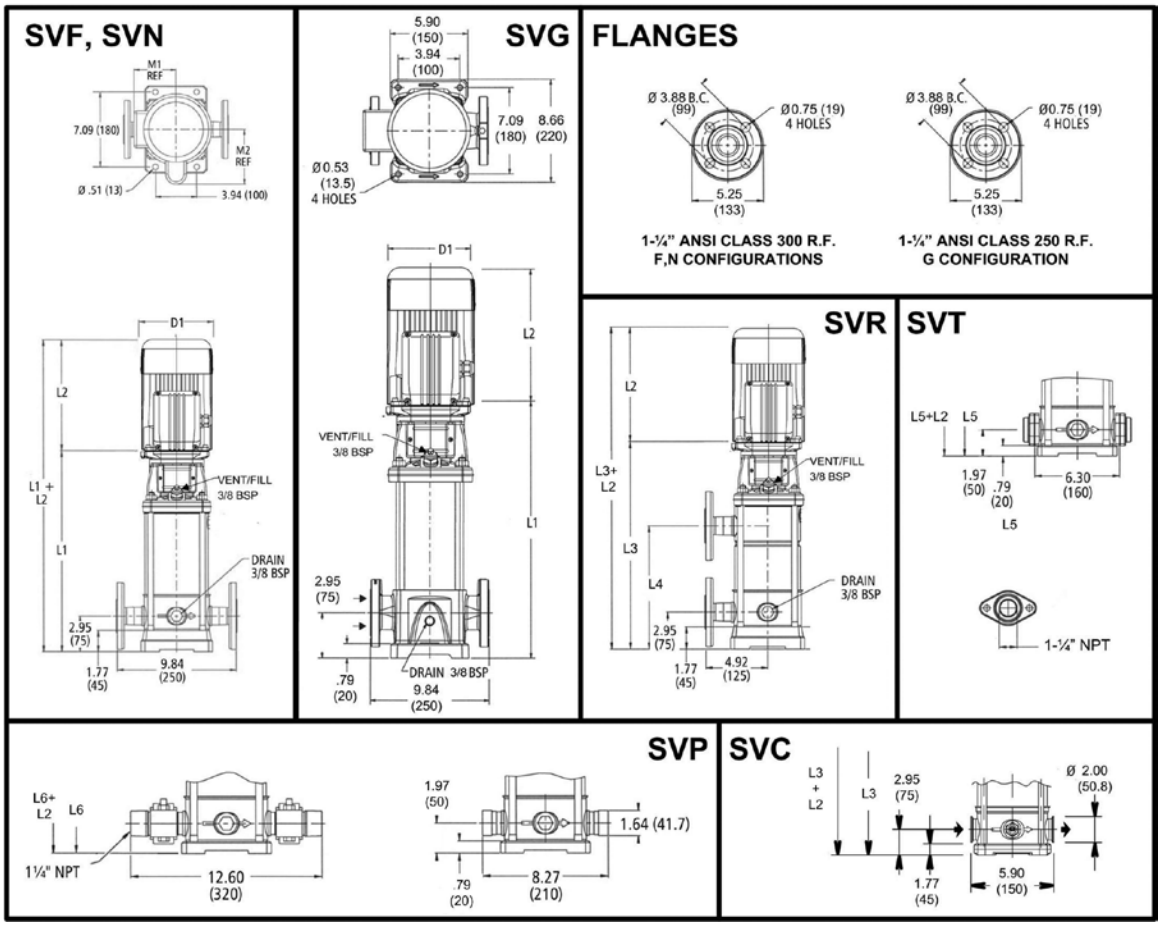


MINIMUM FLOW RATE: 1 GPM [.24 m^3/hr]

Dimensions and Weights

3SV Series 1750 RPM

60 Hz

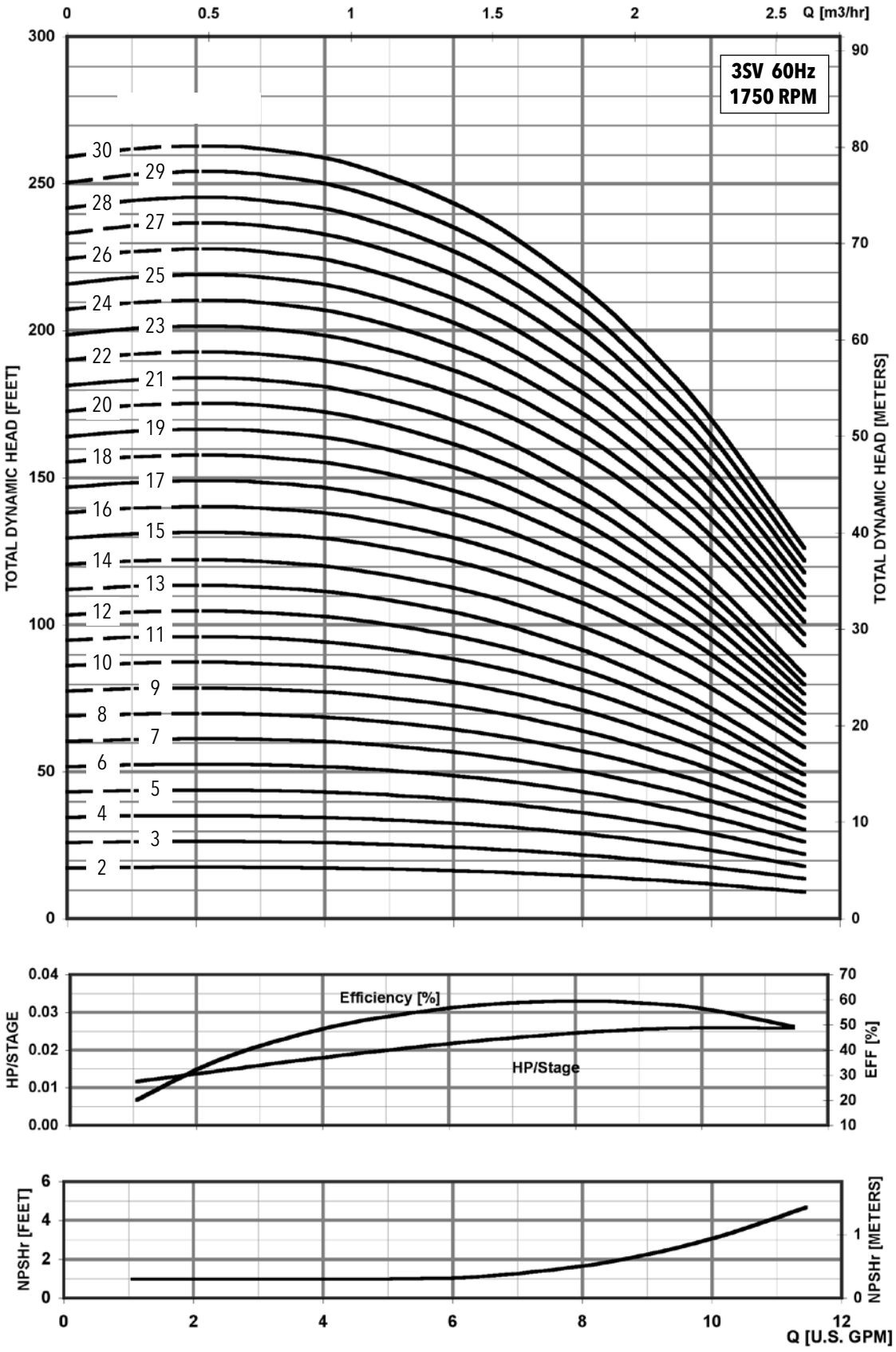


All dimensions are in inches (mm).

3SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor HP	Motor NEMA Frame ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	Dimensions (in) L1	L2 ODP 1Ø	L2 TEFC 1Ø	L2 ODP 3Ø	L2 TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	D1 (max.) ODP 1Ø	D1 TEFC 1Ø	D1 ODP 3Ø	D1 TEFC 3Ø	D2	Weight (lbs.) Pump Only	Motor ODP 1Ø	Motor TEFC 1Ø	Motor ODP 3Ø	Motor TEFC 3Ø	Pump/Motor ODP 1Ø	Pump/Motor TEFC 1Ø	Pump/Motor ODP 3Ø	Pump/Motor TEFC 3Ø
3SV-02	0.5	56C				13.27	9.16	9.29	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	24	21	21	19	19	45	45	43	43
3SV-03						13.27	9.16	9.29	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	25	21	21	19	19	46	46	44	44
3SV-04						14.06	9.16	9.29	9.16	9.29	-	-	13.07	13.07	5.19	6.19	6.19	6.19	6.19	4.13	26	21	21	19	19	47	47	45	45
3SV-05						14.85	9.16	9.29	9.16	9.29	-	-	13.86	13.86	5.19	6.19	6.19	6.19	6.19	4.13	27	21	21	19	19	48	48	46	46
3SV-06						15.63	9.16	9.29	9.16	9.29	-	-	14.65	14.65	5.19	6.19	6.19	6.19	6.19	4.13	28	21	21	19	19	49	49	47	47
3SV-07						16.42	9.16	9.29	9.16	9.29	-	-	15.44	15.44	5.19	6.19	6.19	6.19	6.19	4.13	30	21	21	19	19	51	51	49	49
3SV-08						17.21	9.16	9.29	9.16	9.29	17.21	8.94	16.22	16.22	5.19	6.19	6.19	6.19	6.19	4.13	31	21	21	19	19	52	52	50	50
3SV-09						18.00	9.16	9.29	9.16	9.29	18.00	9.72	17.01	17.01	5.19	6.19	6.19	6.19	6.19	4.13	32	21	21	19	19	53	53	51	51
3SV-10						18.78	9.16	9.29	9.16	9.29	18.78	10.51	17.80	17.80	5.19	6.19	6.19	6.19	6.19	4.13	33	21	21	19	19	54	54	52	52
3SV-11						19.57	9.16	9.29	9.16	9.29	19.57	11.30	18.59	18.59	5.19	6.19	6.19	6.19	6.19	4.13	34	21	21	19	19	55	55	53	53
3SV-12						20.36	9.16	9.29	9.16	9.29	20.36	12.09	19.37	19.37	5.19	6.19	6.19	6.19	6.19	4.13	35	21	21	19	19	56	56	54	54
3SV-13						21.14	9.16	9.29	9.16	9.29	21.14	12.87	20.16	20.16	5.19	6.19	6.19	6.19	6.19	4.13	36	21	21	19	19	57	57	55	55
3SV-14						21.93	9.16	9.29	9.16	9.29	21.93	13.66	20.95	20.95	5.19	6.19	6.19	6.19	6.19	4.13	37	21	21	19	19	58	58	56	56
3SV-15						22.72	9.16	9.29	9.16	9.29	22.72	14.45	21.74	21.74	5.19	6.19	6.19	6.19	6.19	4.13	38	21	21	19	19	59	59	57	57
3SV-16						23.51	9.16	9.29	9.16	9.29	23.51	15.24	22.52	22.52	5.19	6.19	6.19	6.19	6.19	4.13	39	21	21	19	19	60	60	58	58
3SV-17						24.29	9.16	9.29	9.16	9.29	24.29	16.02	23.31	23.31	5.19	6.19	6.19	6.19	6.19	4.13	40	21	21	19	19	61	61	59	59
3SV-18						25.08	9.16	9.29	9.16	9.29	25.08	16.81	24.10	24.10	5.19	6.19	6.19	6.19	6.19	4.13	41	21	21	19	19	62	62	60	60
3SV-19						25.87	9.16	9.29	9.16	9.29	25.87	17.60	24.89	24.89	5.19	6.19	6.19	6.19	6.19	4.13	41	21	21	19	19	62	62	60	60
3SV-20						26.66	9.16	9.29	9.16	9.29	26.66	18.39	25.67	25.67	5.19	6.19	6.19	6.19	6.19	4.13	42	21	21	19	19	63	63	61	61
3SV-21						27.44	9.16	9.29	9.16	9.29	27.44	19.17	26.46	26.46	5.19	6.19	6.19	6.19	6.19	4.13	43	21	21	19	19	64	64	62	62
3SV-22						28.23	9.16	9.29	9.16	9.29	28.23	19.96	27.25	27.25	5.19	6.19	6.19	6.19	6.19	4.13	44	21	21	19	19	65	65	63	63
3SV-23						29.02	9.16	9.29	9.16	9.29	29.02	20.75	28.03	28.03	5.19	6.19	6.19	6.19	6.19	4.13	45	21	21	19	19	66	66	64	64
3SV-24						29.81	9.16	9.29	9.16	9.29	29.81	21.54	28.82	28.82	5.19	6.19	6.19	6.19	6.19	4.13	46	21	21	19	19	67	67	65	65
3SV-25						30.59	9.16	9.29	9.16	9.29	30.59	22.32	29.61	29.61	5.19	6.19	6.19	6.19	6.19	4.13	47	21	21	19	19	68	68	66	66
3SV-26	0.75					31.38	10.79	9.91	9.16	9.29	31.38	23.11	30.40	30.40	5.19	6.19	6.19	6.19	6.19	4.13	48	27	29	21	21	75	77	69	69
3SV-27						31.77	10.79	9.91	9.16	9.29	31.77	23.90	30.79	30.79	5.19	6.19	6.19	6.19	6.19	4.13	50	27	29	21	21	77	79	71	71
3SV-28						32.56	10.79	9.91	9.16	9.29	32.56	24.68	31.58	31.58	5.19	6.19	6.19	6.19	6.19	4.13	51	27	29	21	21	78	80	72	72
3SV-29						33.74	10.79	9.91	9.16	9.29	33.74	25.47	32.76	32.76	5.19	6.19	6.19	6.19	6.19	4.13	52	27	29	21	21	79	81	73	73
3SV-30						34.53	10.79	9.91	9.16	9.29	34.53	26.26	33.55	33.55	5.19	6.19	6.19	6.19	6.19	4.13	53	27	29	21	21	80	82	74	74

Performance Curve **3SV 1750 RPM** **60 Hz**

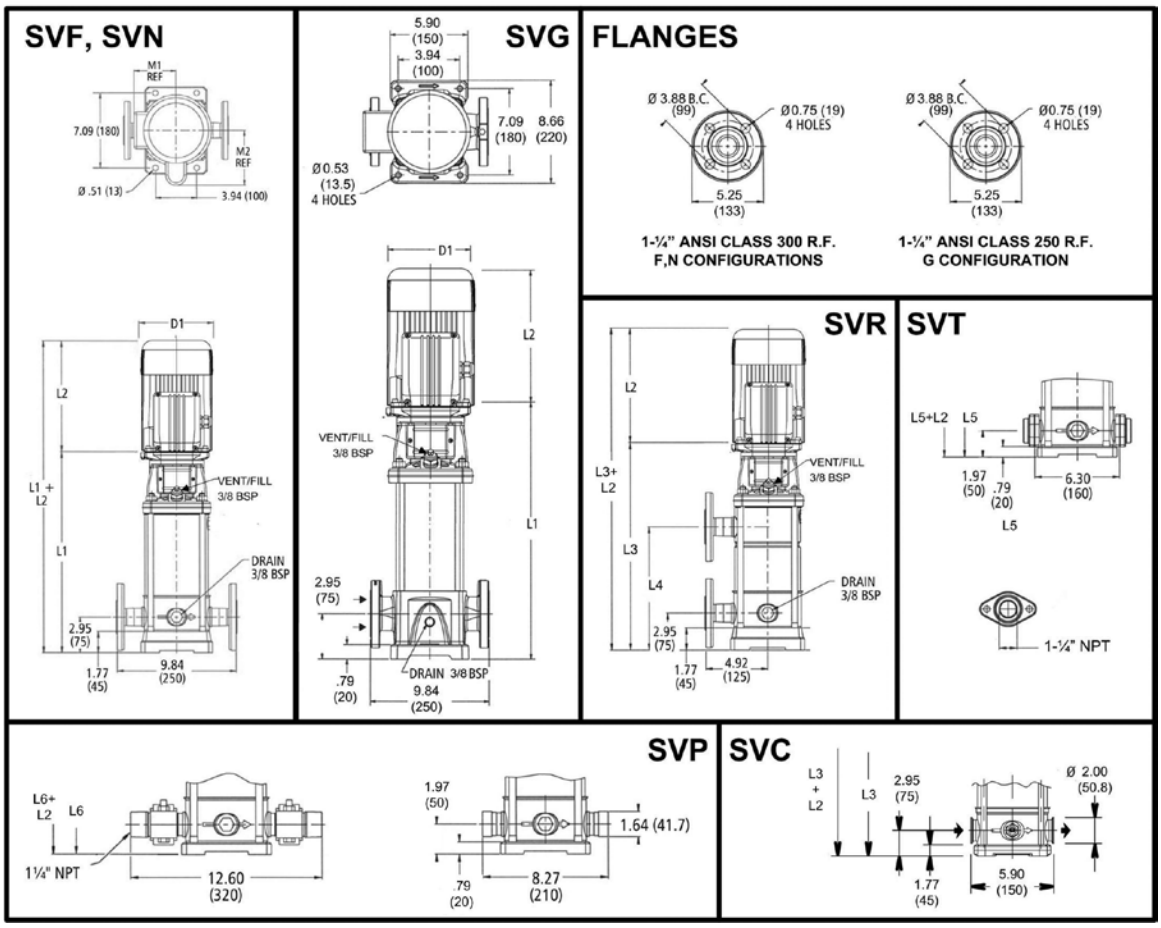


MINIMUM FLOW RATE: 1 GPM [.24 m³/hr]

Dimensions and Weights

5SV Series 1750 RPM

60 Hz

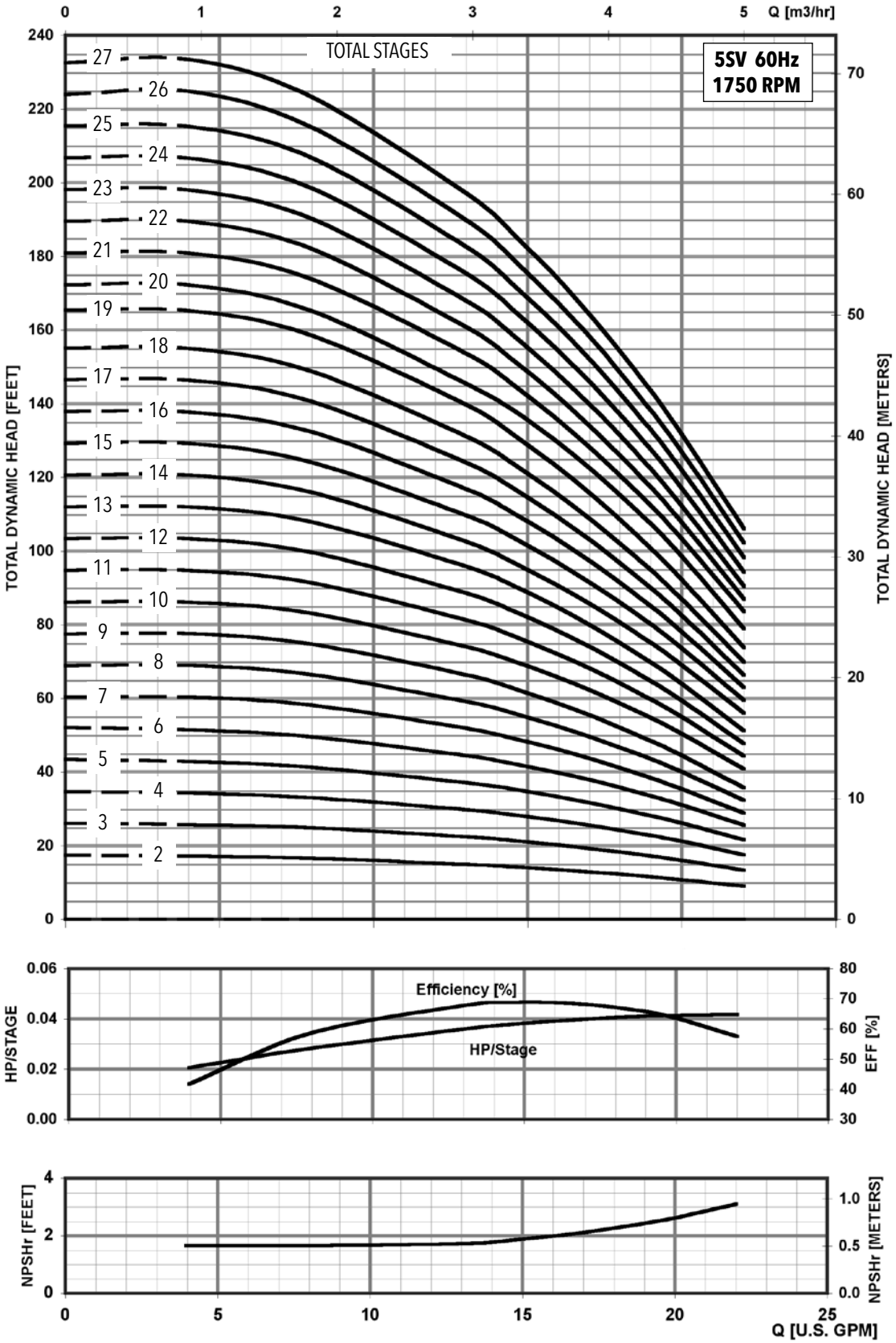


All dimensions are in inches (mm).

5SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

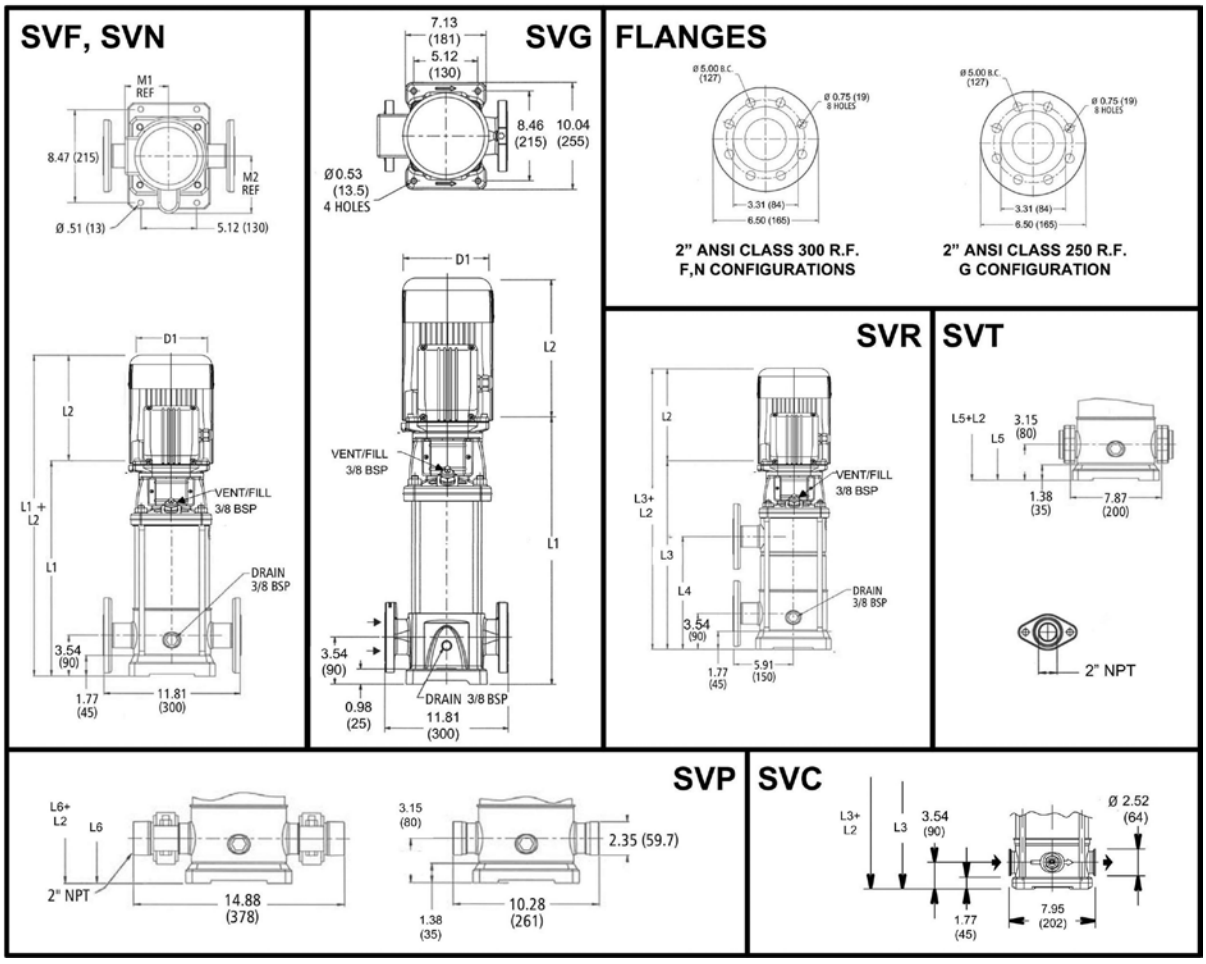
Pump Type Stages	Motor					Dimensions (in)																Weight (lbs.)								
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump Only	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
5SV-02	0.5	56C				13.86	9.16	9.29	9.16	9.29	-	-	12.88	12.88	5.19	6.19	6.19	6.19	6.19	4.13	25	21	21	19	19	46	46	44	44
5SV-03						13.86	9.16	9.29	9.16	9.29	-	-	12.88	12.88	5.19	6.19	6.19	6.19	6.19	4.13	26	21	21	19	19	47	47	45	45
5SV-04						14.85	9.16	9.29	9.16	9.29	-	-	13.86	13.86	5.19	6.19	6.19	6.19	6.19	4.13	28	21	21	19	19	49	49	47	47
5SV-05						15.83	9.16	9.29	9.16	9.29	-	-	14.85	14.85	5.19	6.19	6.19	6.19	6.19	4.13	29	21	21	19	19	50	50	48	48
5SV-06						16.81	9.16	9.29	9.16	9.29	-	-	15.83	15.83	5.19	6.19	6.19	6.19	6.19	4.13	30	21	21	19	19	51	51	49	49
5SV-07						17.80	9.16	9.29	9.16	9.29	17.80	9.53	16.81	16.81	5.19	6.19	6.19	6.19	6.19	4.13	31	21	21	19	19	52	52	50	50
5SV-08						18.78	9.16	9.29	9.16	9.29	18.78	10.51	17.80	17.80	5.19	6.19	6.19	6.19	6.19	4.13	33	21	21	19	19	54	54	52	52
5SV-09						19.77	9.16	9.29	9.16	9.29	19.77	11.50	18.78	18.78	5.19	6.19	6.19	6.19	6.19	4.13	33	21	21	19	19	54	54	52	52
5SV-10						20.75	9.16	9.29	9.16	9.29	20.75	12.48	19.77	19.77	5.19	6.19	6.19	6.19	6.19	4.13	34	21	21	19	19	55	55	53	53
5SV-11						21.74	9.16	9.29	9.16	9.29	21.74	13.46	20.75	20.75	5.19	6.19	6.19	6.19	6.19	4.13	35	21	21	19	19	56	56	54	54
5SV-12						22.72	9.16	9.29	9.16	9.29	22.72	14.45	21.74	21.74	5.19	6.19	6.19	6.19	6.19	4.13	36	21	21	19	19	57	57	55	55
5SV-13						23.70	9.16	9.29	9.16	9.29	23.70	15.43	22.72	22.72	5.19	6.19	6.19	6.19	6.19	4.13	38	21	21	19	19	59	59	57	57
5SV-14						24.69	9.16	9.29	9.16	9.29	24.69	16.42	23.70	23.70	5.19	6.19	6.19	6.19	6.19	4.13	38	21	21	19	19	59	59	57	57
5SV-15						25.67	9.16	9.29	9.16	9.29	25.67	17.40	24.69	24.69	5.19	6.19	6.19	6.19	6.19	4.13	39	21	21	19	19	60	60	58	58
5SV-16						26.66	9.16	9.29	9.16	9.29	26.66	18.39	25.67	25.67	5.19	6.19	6.19	6.19	6.19	4.13	41	21	21	19	19	62	62	60	60
5SV-17	0.75					27.84	10.79	9.91	9.16	9.29	27.84	19.37	26.85	26.85	5.19	6.19	6.19	6.19	6.19	4.13	43	27	29	21	21	70	72	64	64
5SV-18						28.63	10.79	9.91	9.16	9.29	28.63	20.35	27.64	27.64	5.19	6.19	6.19	6.19	6.19	4.13	44	27	29	21	21	71	73	65	65
5SV-19						29.81	10.79	9.91	9.16	9.29	29.81	21.34	28.82	28.82	5.19	6.19	6.19	6.19	6.19	4.13	45	27	29	21	21	72	74	66	66
5SV-20						30.99	10.79	9.91	9.16	9.29	30.99	22.32	30.00	30.00	5.19	6.19	6.19	6.19	6.19	4.13	46	27	29	21	21	73	75	67	67
5SV-21						31.58	10.79	9.91	9.16	9.29	31.58	23.31	30.59	30.59	5.19	6.19	6.19	6.19	6.19	4.13	47	27	29	21	21	74	76	68	68
5SV-22						32.64	10.79	9.91	9.16	9.29	32.64	24.29	31.66	31.66	5.19	6.19	6.19	6.19	6.19	4.13	48	27	29	21	21	75	77	69	69
5SV-23						33.55	10.79	9.91	9.16	9.29	33.55	25.28	32.56	32.56	5.19	6.19	6.19	6.19	6.19	4.13	49	27	29	21	21	76	78	70	70
5SV-24						34.61	10.79	9.91	9.16	9.29	34.61	26.26	33.63	33.63	5.19	6.19	6.19	6.19	6.19	4.13	51	27	29	21	21	78	80	72	72
5SV-25	1					35.51	10.66	11.19	9.16	9.29	35.51	27.24	34.53	34.53	5.74	6.19	7.19	6.19	6.19	4.13	51	32	40	23	23	83	91	74	74
5SV-26						36.58	10.66	11.19	9.16	9.29	36.58	28.23	35.59	35.59	5.74	6.19	7.19	6.19	6.19	4.13	52	32	40	23	23	84	92	75	75
5SV-27						37.56	10.66	11.19	9.16	9.29	37.56	29.21	36.58	36.58	5.74	6.19	7.19	6.19	6.19	4.13	53	32	40	23	23	85	93	76	76

Performance Curve **5SV 1750 RPM** **60 Hz**



MINIMUM FLOW RATE: 3 GPM [.7 m³/hr]

Dimensions and Weights — 10SV Series 1750 RPM — 60 Hz

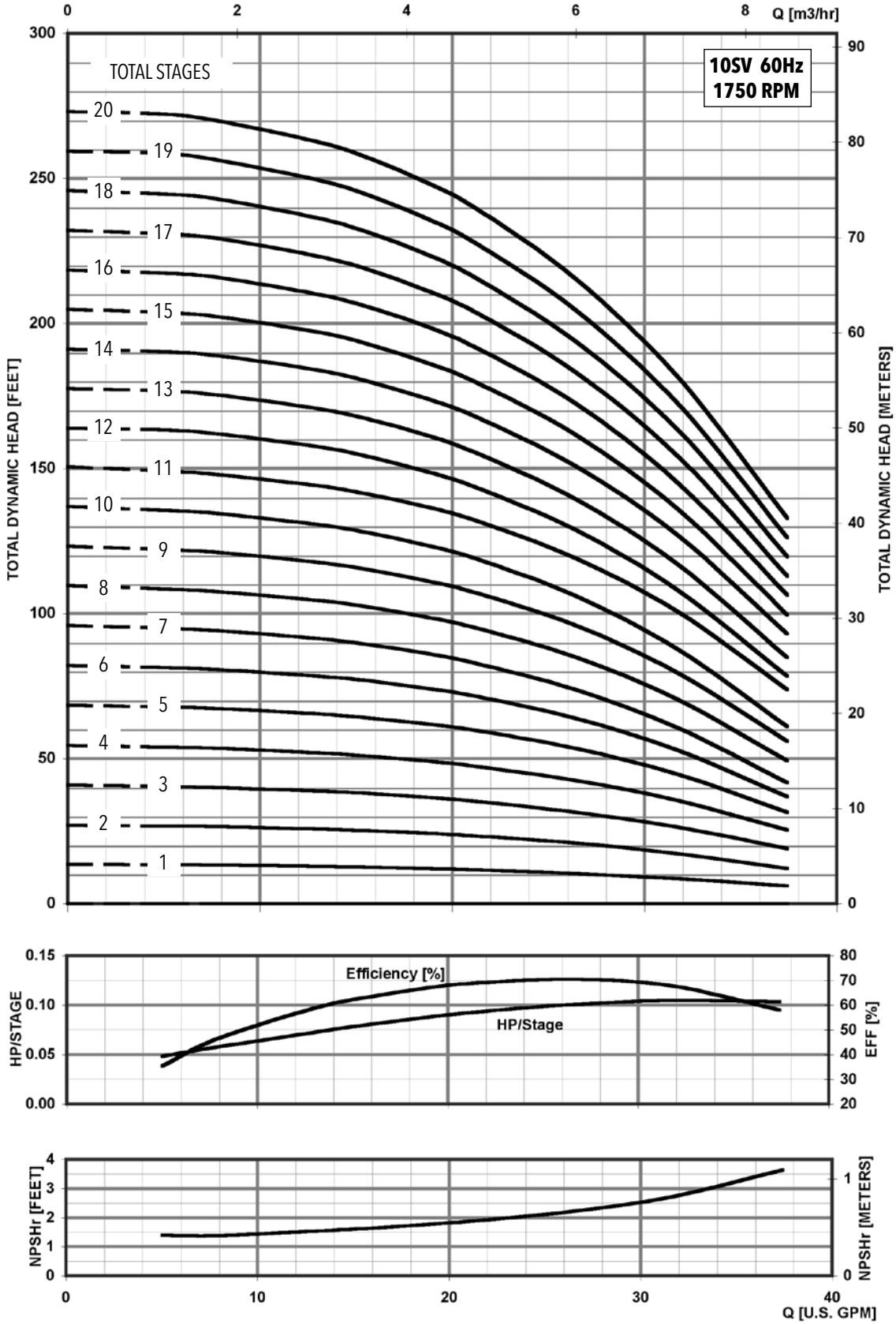


All dimensions are in inches (mm).

10SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

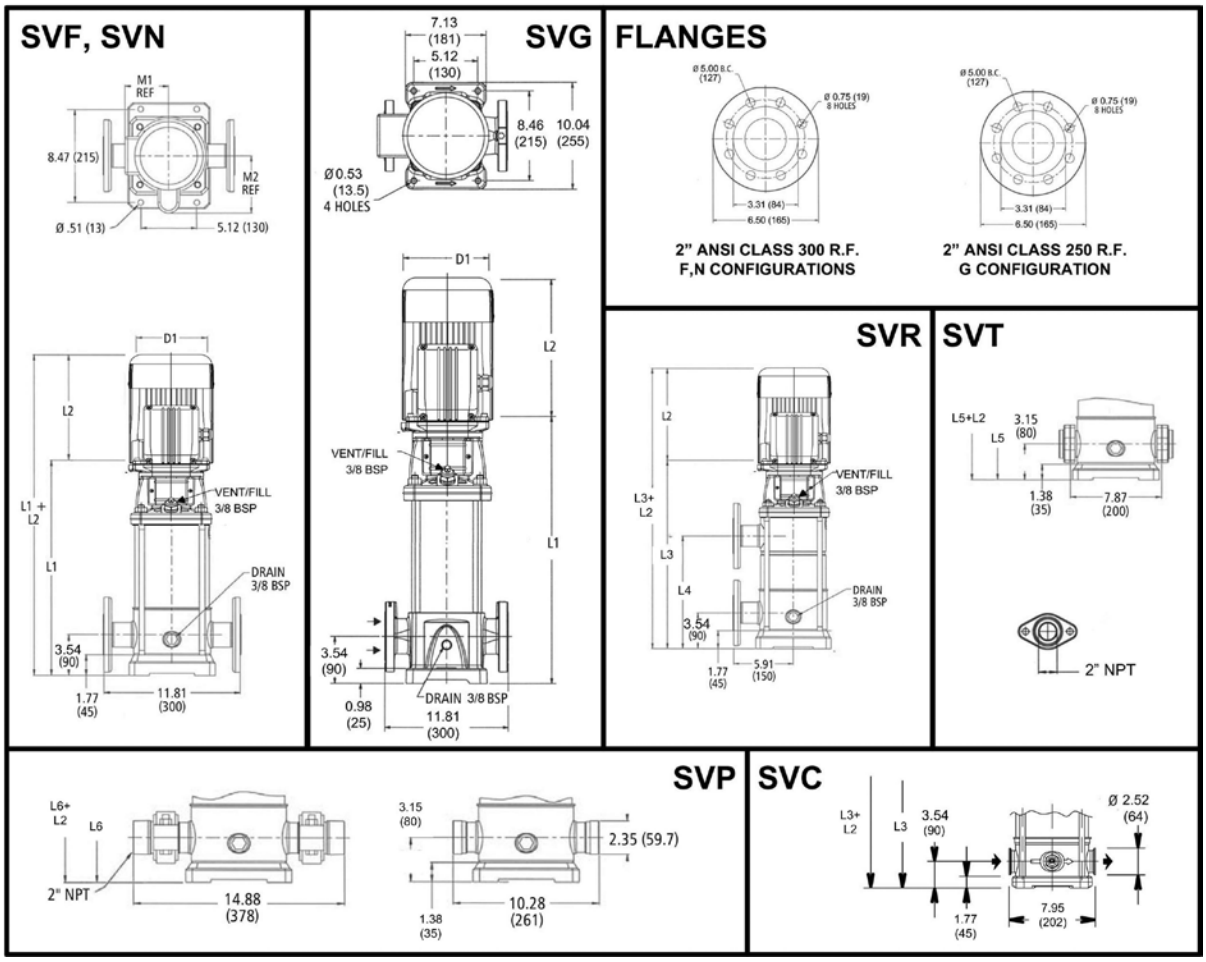
Pump Type Stages	Motor HP	Motor NEMA Frame ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	Dimensions (in) L1	L2 ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	D1 (max.) ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Weight (lbs.) Pump Only	Motor ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	Pump/Motor ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
10SV-01						16.56	9.16	9.29	9.16	9.29	-	-	16.17	16.17	5.19	6.2	6.19	6.19	6.19	4.13	36	21	21	19	19	57	57	55	55
10SV-02						16.56	9.16	9.29	9.16	9.29	-	-	16.17	16.17	5.19	6.2	6.19	6.19	6.19	4.13	38	21	21	19	19	59	59	57	57
10SV-03	0.5					17.82	9.16	9.29	9.16	9.29	-	-	17.43	17.43	5.19	6.2	6.19	6.19	6.19	4.13	40	21	21	19	19	61	61	59	59
10SV-04						19.08	9.16	9.29	9.16	9.29	-	-	18.69	18.69	5.19	6.2	6.19	6.19	6.19	4.13	43	21	21	19	19	64	64	62	62
10SV-05						20.34	9.16	9.29	9.16	9.29	20.34	10.20	19.95	19.95	5.19	6.2	6.19	6.19	6.19	4.13	45	21	21	19	19	66	66	64	64
10SV-06						21.60	10.79	9.91	9.16	9.29	21.60	11.46	21.21	21.21	5.19	6.19	6.19	6.19	6.19	4.13	47	27	29	21	21	74	76	68	68
10SV-07	0.75					22.86	10.79	9.91	9.16	9.29	22.86	12.72	22.47	22.47	5.19	6.19	6.19	6.19	6.19	4.13	49	27	29	21	21	76	78	70	70
10SV-08						24.12	10.79	9.91	9.16	9.29	24.12	13.98	23.72	23.72	5.19	6.19	6.19	6.19	6.19	4.13	51	27	29	21	21	78	80	72	72
10SV-09	1					25.38	10.66	11.19	9.16	9.29	25.38	15.24	24.98	24.98	5.74	6.2	7.19	6.19	6.19	4.13	53	32	40	23	23	85	93	76	76
10SV-10						26.64	10.66	11.19	9.16	9.29	26.64	16.50	26.24	26.24	5.74	6.2	7.19	6.19	6.19	4.13	56	32	40	23	23	88	96	79	79
10SV-11						27.90	10.67	11.19	10.66	9.91	27.90	17.76	27.50	27.50	5.74	6.2	7.19	6.19	6.19	4.72	58	32	40	30	28	90	98	88	86
10SV-12	1.5					28.37	10.67	11.19	10.66	9.91	28.37	19.02	27.98	27.98	5.74	6.2	7.19	6.19	6.19	4.72	60	32	40	30	28	92	100	90	88
10SV-13						30.44	10.67	11.19	10.66	9.91	30.44	20.28	30.04	30.04	5.74	6.2	7.19	6.19	6.19	4.72	65	32	40	30	28	97	105	95	93
10SV-14						31.78	10.67	11.19	10.66	9.91	31.78	21.54	31.38	31.38	5.74	6.2	7.19	6.19	6.19	4.72	67	32	40	30	28	99	107	97	95
10SV-15						32.96	11.18	12.06	11.16	10.79	32.96	22.80	32.56	32.56	5.74	7.19	7.19	6.19	6.19	4.72	69	43	51	32	33	112	120	101	102
10SV-16						34.22	11.18	12.06	11.16	10.79	34.22	24.06	33.82	33.82	5.74	7.19	7.19	6.19	6.19	4.72	71	43	51	32	33	114	122	103	104
10SV-17	2					35.48	11.18	12.06	11.16	10.79	35.48	25.31	35.08	35.08	5.74	7.19	7.19	6.19	6.19	4.72	73	43	51	32	33	116	124	105	106
10SV-18						36.74	11.18	12.06	11.16	10.79	36.74	26.57	36.34	36.34	5.74	7.19	7.19	6.19	6.19	4.72	75	43	51	32	33	118	126	107	108
10SV-19						38.08	11.18	12.06	11.16	10.79	38.08	27.83	37.68	37.68	5.74	7.19	7.19	6.19	6.19	4.72	77	43	51	32	33	120	128	109	110
10SV-20	3					39.26	11.57	13.44	11.18	11.16	39.26	29.09	38.86	38.86	5.75	6.5	7.19	7.16	7.19	5.51	79	49	64	41	44	128	143	120	123

Performance Curve **10SV 1750 RPM** **60 Hz**



MINIMUM FLOW RATE: 5 GPM [1.4 m^3/hr]

Dimensions and Weights — 15SV Series 1750 RPM — 60 Hz

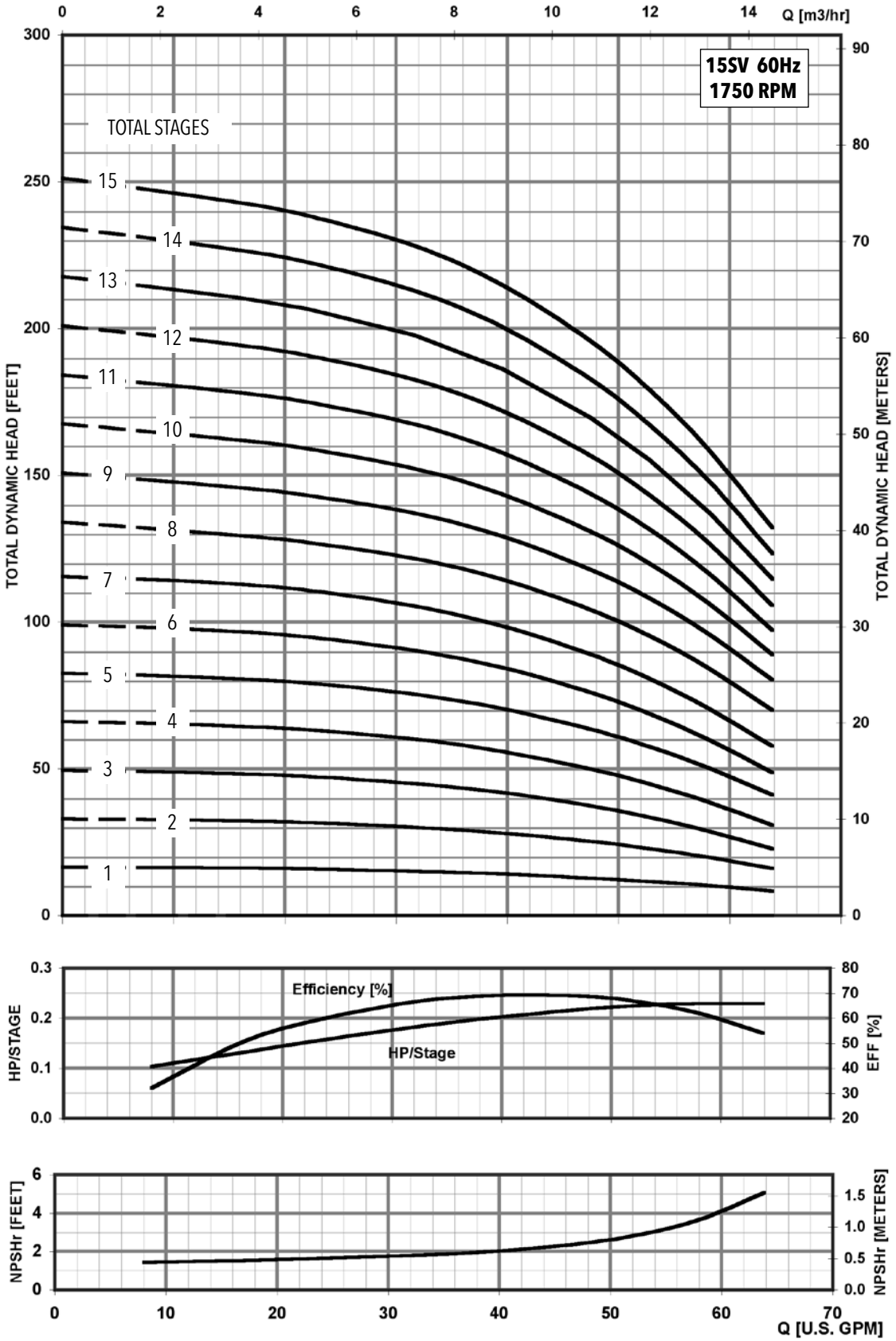


All dimensions are in inches (mm).

15SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

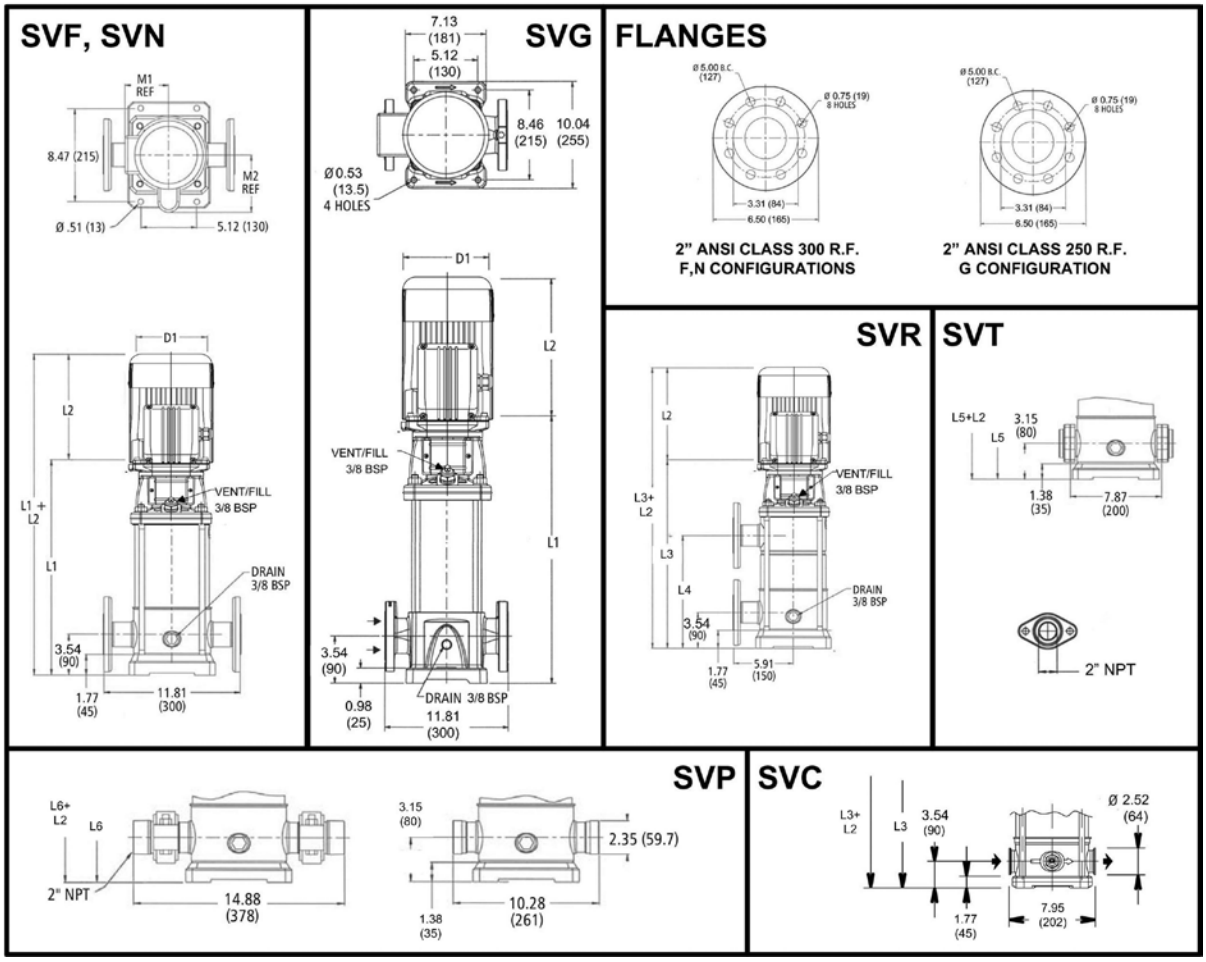
Pump Type Stages	Motor					Dimensions (in)																Weight (lbs.)								
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump Only	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
15SV-01	0.5	56C				18.61	9.16	9.29	9.16	9.29	-	-	18.21	18.21	5.19	6.19	6.19	6.19	6.19	4.13	38	21	21	19	19	59	59	57	57
15SV-02						18.21	9.16	9.29	9.16	9.29	-	-	17.82	17.82	5.19	6.19	6.19	6.19	6.19	4.13	41	21	21	19	19	62	62	60	60
15SV-03	0.75					20.10	10.79	9.91	9.16	9.29	-	-	19.71	19.71	5.19	6.19	6.19	6.19	6.19	4.13	44	27	29	21	21	71	73	65	65
15SV-04	1					21.99	10.66	11.19	9.16	9.29	21.99	11.85	21.60	21.60	5.74	6.19	7.19	6.19	6.19	4.13	47	32	40	23	23	79	87	70	70
15SV-05						23.88	10.66	11.19	9.16	9.29	23.88	13.74	23.49	23.49	5.74	6.19	7.19	6.19	6.19	4.13	49	32	40	23	23	81	89	72	72
15SV-06	1.5					25.79	10.67	11.19	10.66	9.91	25.79	15.63	25.40	25.40	5.74	6.19	7.19	6.19	6.19	4.72	56	32	40	30	28	88	96	86	84
15SV-07						27.68	10.67	11.19	10.66	9.91	27.68	17.52	27.29	27.29	5.74	6.19	7.19	6.19	6.19	4.72	59	32	40	30	28	91	99	89	87
15SV-08	2					29.57	11.18	12.06	11.16	10.79	29.57	19.41	29.18	29.18	5.74	7.19	7.19	6.19	6.19	4.72	61	43	51	32	33	104	112	93	94
15SV-09						31.46	11.18	12.06	11.16	10.79	31.46	21.30	31.07	31.07	5.74	7.19	7.19	6.19	6.19	4.72	64	43	51	32	33	107	115	96	97
15SV-10	3					33.35	11.57	13.44	11.18	11.16	33.35	23.19	32.96	32.96	5.75	6.50	7.19	7.16	7.19	5.51	68	49	64	41	44	117	132	109	112
15SV-11						35.24	11.57	13.44	11.18	11.16	35.24	25.08	34.85	34.85	5.75	6.50	7.19	7.16	7.19	5.51	71	49	64	41	44	120	135	112	115
15SV-12						37.13	11.57	13.44	11.18	11.16	37.13	26.97	36.74	36.74	5.75	6.50	7.19	7.16	7.19	5.51	74	49	64	41	44	123	138	115	118
15SV-13						39.02	11.57	13.44	11.18	11.16	39.02	28.86	38.63	38.63	5.75	6.50	7.19	7.16	7.19	5.51	77	49	64	41	44	126	141	118	121
15SV-14						40.91	11.57	13.44	11.18	11.16	40.91	30.75	40.52	40.52	5.75	6.50	7.19	7.16	7.19	5.51	80	49	64	41	44	129	144	121	124
15SV-15	5	184TC		182TC	184TC	43.30	13.93	15.43	12.55	13.93	43.30	32.64	42.91	42.91	6.87	8.88	8.86	9.02	8.86	5.51	86	81	92	62	69	167	178	148	155

Performance Curve **15SV 1750 RPM** **60 Hz**



MINIMUM FLOW RATE: 8 GPM [2 m^3/hr]

Dimensions and Weights — 22SV Series 1750 RPM — 60 Hz

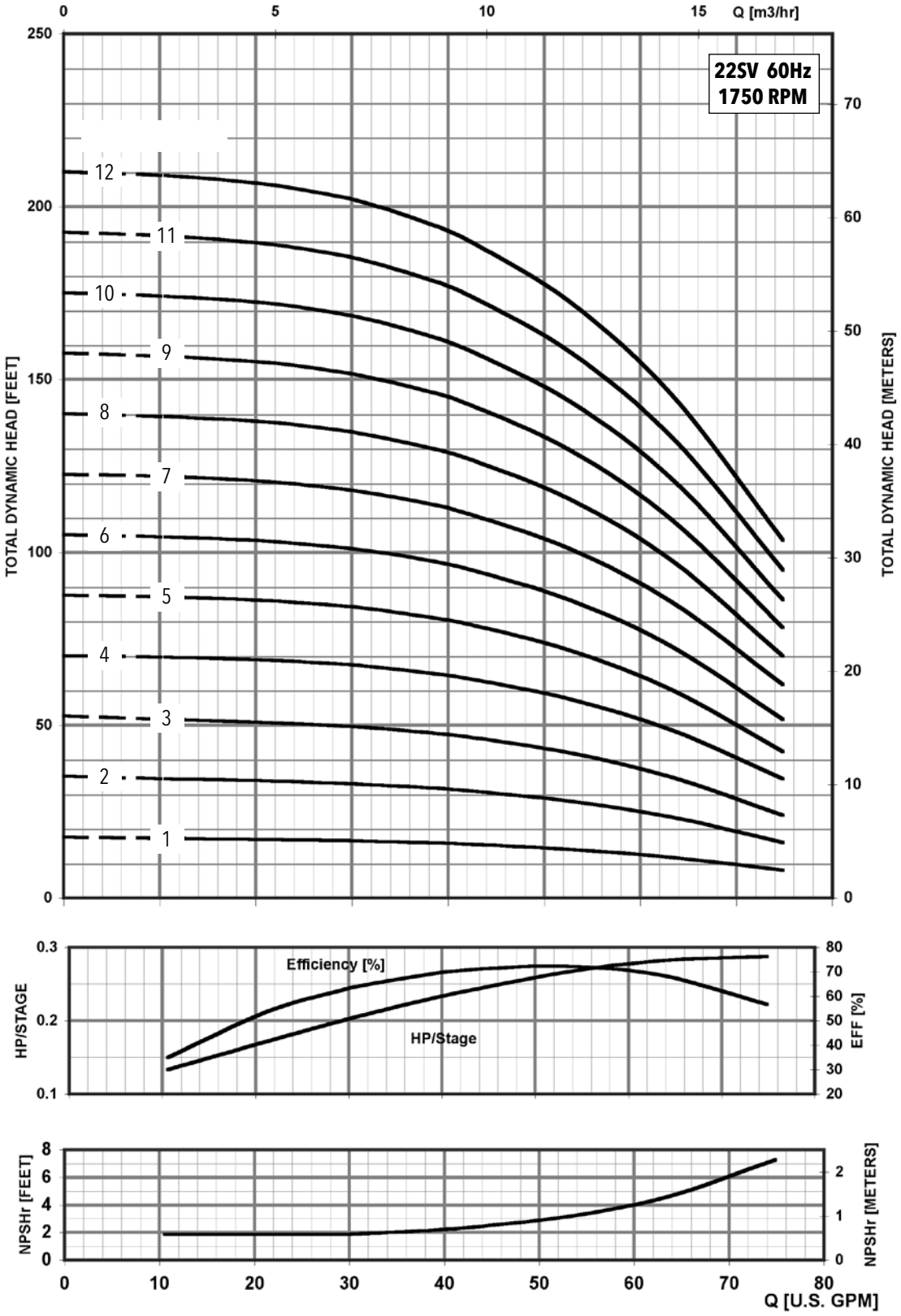


All dimensions are in inches (mm).

22SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor					Dimensions (in)																Weight (lbs.)								
		NEMA Frame					L2									D1 (max.)							Motor				Pump/Motor			
	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
22SV-01	0.5	56C				18.61	9.16	9.29	9.16	9.29	-	-	18.21	18.21	5.19	6.19	6.19	6.19	6.19	4.13	39	21	21	19	19	60	60	58	58
22SV-02						18.21	9.16	9.29	9.16	9.29	-	-	17.82	17.82	5.19	6.19	6.19	6.19	6.19	4.13	42	21	21	19	19	63	63	61	61
22SV-03	0.75					20.10	10.79	9.91	9.16	9.29	-	-	19.71	19.71	5.19	6.19	6.19	6.19	6.19	4.13	45	27	29	21	21	72	74	66	66
22SV-04	1.5					21.99	10.67	11.19	10.66	9.91	21.99	11.85	21.60	21.60	5.74	6.19	7.19	6.19	6.19	4.72	48	32	40	30	28	80	88	78	76
22SV-05						23.90	10.67	11.19	10.66	9.91	23.90	13.74	23.51	23.51	5.74	6.19	7.19	6.19	6.19	4.72	51	32	40	30	28	83	91	81	79
22SV-06	2					25.79	11.18	12.06	11.16	10.79	25.79	15.63	25.40	25.40	5.74	7.19	7.19	6.19	6.19	4.72	54	43	51	32	33	97	105	86	87
22SV-07						27.68	11.18	12.06	11.16	10.79	27.68	17.52	27.29	27.29	5.74	7.19	7.19	6.19	6.19	4.72	57	43	51	32	33	100	108	89	90
22SV-08	3					29.57	11.57	13.44	11.18	11.16	29.57	19.41	29.18	29.18	5.75	6.50	7.19	7.16	7.19	5.51	60	49	64	41	44	109	124	101	104
22SV-09						31.46	11.57	13.44	11.18	11.16	31.46	21.30	31.07	31.07	5.75	6.50	7.19	7.16	7.19	5.51	62	49	64	41	44	111	126	103	106
22SV-10						33.35	11.57	13.44	11.18	11.16	33.35	23.19	32.96	32.96	5.75	6.50	7.19	7.16	7.19	5.51	66	49	64	41	44	115	130	107	110
22SV-11						35.24	11.57	13.44	11.18	11.16	35.24	25.08	34.85	34.85	5.75	6.50	7.19	7.16	7.19	5.51	69	49	64	41	44	118	133	110	113
22SV-12	5	184TC		182TC	184TC	37.63	13.93	15.43	12.55	13.93	37.63	26.97	37.24	37.24	6.87	8.88	8.86	9.02	8.86	5.51	75	81	92	62	69	156	167	137	144

Performance Curve **22SV 1750 RPM** **60 Hz**

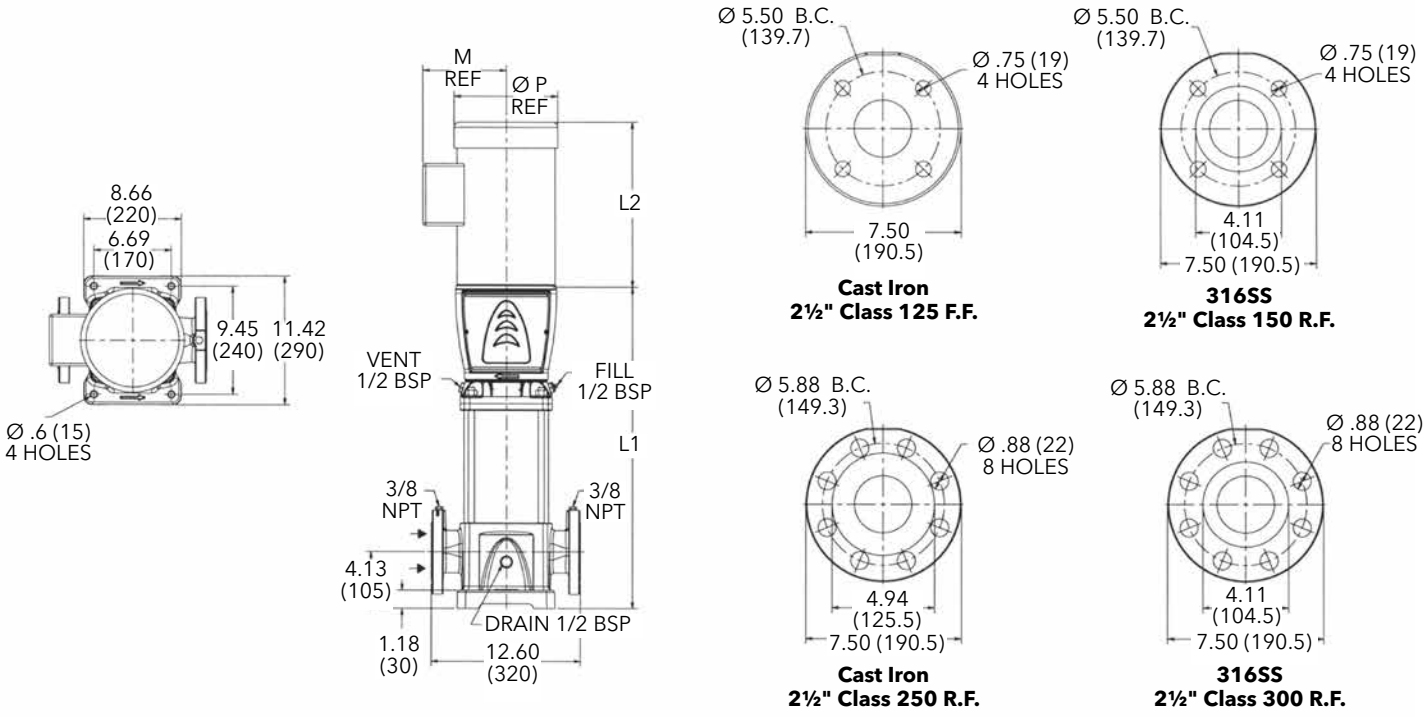


MINIMUM FLOW RATE: 11 GPM [2.5 m³/hr]

Dimensions and Weights

33SV Series 1750 RPM

60 Hz



All dimensions are in inches (mm).

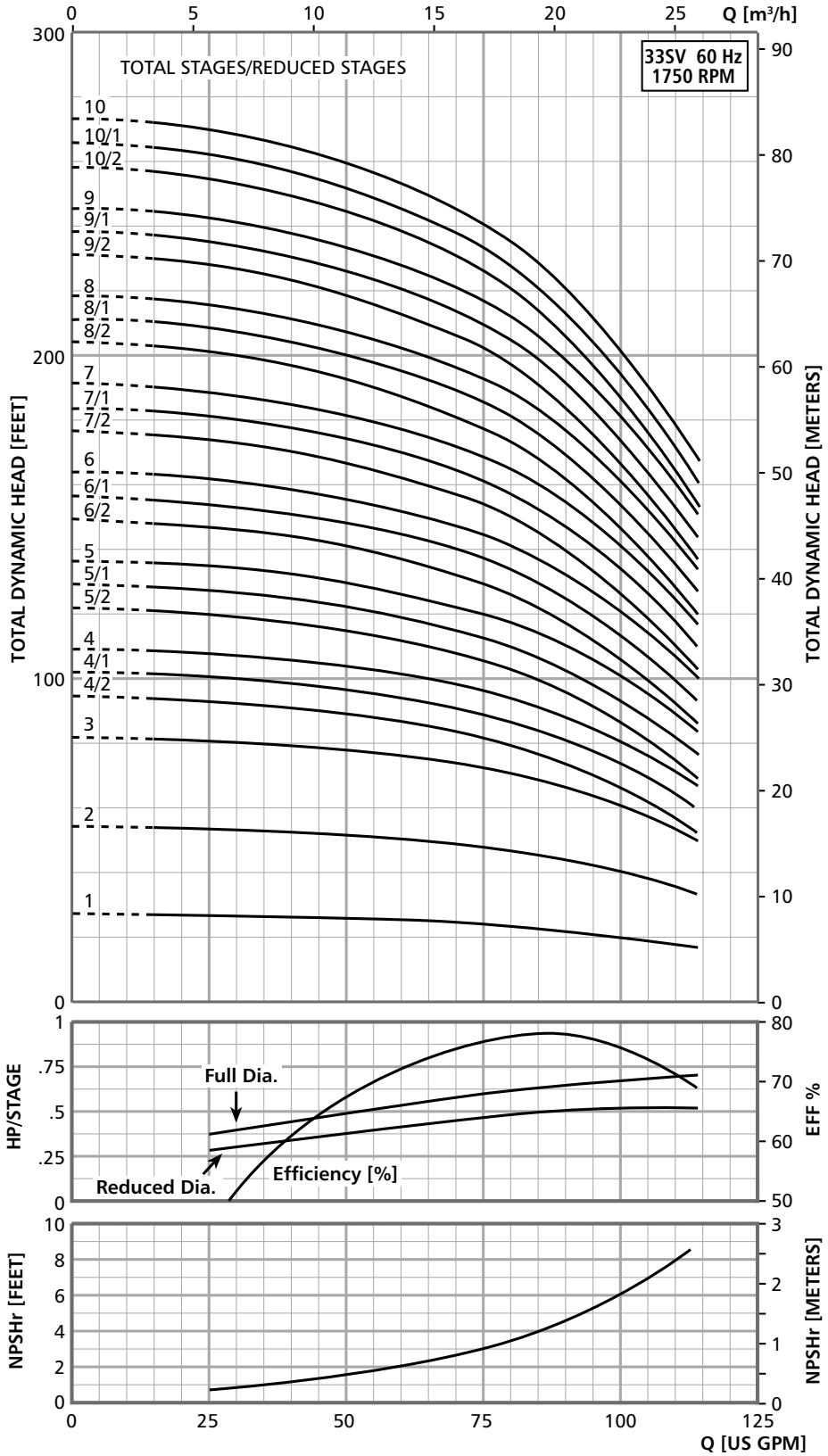
33SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor					Dimensions (in)											Weight (lbs.)								
		NEMA Frame					L2					D1 (max.)						Motor					Pump/Motor			
	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
33SV-1	1	-	-	CONTACT FACTORY		20.62	-	-	CONTACT FACTORY			CONTACT FACTORY					132	CONTACT FACTORY							
33SV-2/2	1.5	-	-			23.58	-	-									143								
33SV-2/1		-	-			23.58	-	-									143								
33SV-2		-	-			23.58	-	-									143								
33SV-3/2	2	-	-			26.54	-	-									151								
33SV-3/1		-	-			26.54	-	-									151								
33SV-3		-	-			26.54	-	-									151								
33SV-4/2	3	-	-	182TC		29.50	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	161	49	64	41	44	210	225	202	205
33SV-4/1		-	-			29.50	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	161	49	64	41	44	210	225	202	205
33SV-4		-	-			29.50	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	161	49	64	41	44	210	225	202	205
33SV-5/2		-	-			31.44	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	172	49	64	41	44	221	236	213	216
33SV-5/1		-	-			31.44	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	172	49	64	41	44	221	236	213	216
33SV-5	5	-	-	184TC		31.44	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	172	81	92	62	69	253	264	234	241
33SV-6/2		-	-			34.40	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	194	81	92	62	69	275	286	256	263
33SV-6/1		-	-			34.40	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	194	81	92	62	69	275	286	256	263
33SV-6		-	-			34.40	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	194	81	92	62	69	275	286	256	263
33SV-7/2		-	-			37.35	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	204	81	92	62	69	285	296	266	273
33SV-7/1		-	-			37.35	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	204	81	92	62	69	285	296	266	273
33SV-7		-	-			37.35	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	204	81	92	62	69	285	296	266	273
33SV-8/2		-	-			41.30	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	221	81	92	62	69	302	313	283	290
33SV-8/1		-	-			41.30	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	221	81	92	62	69	302	313	283	290
33SV-8		-	-			41.30	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	221	81	92	62	69	302	313	283	290
33SV-9/2	7.5	-	-	213TC		43.25	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	230	100	120	75	85	330	350	305	315
33SV-9/1		-	-			43.25	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	230	100	120	75	85	330	350	305	315
33SV-9		-	-			43.25	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	230	100	120	75	85	330	350	305	315
33SV-10/2		-	-			46.20	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	249	100	120	75	85	349	369	324	334
33SV-10/1		-	-			46.20	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	249	100	120	75	85	349	369	324	334
33SV-10		-	-			46.20	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	249	100	120	75	85	349	369	324	334

Performance Curve

33SV 1750 RPM

60 Hz

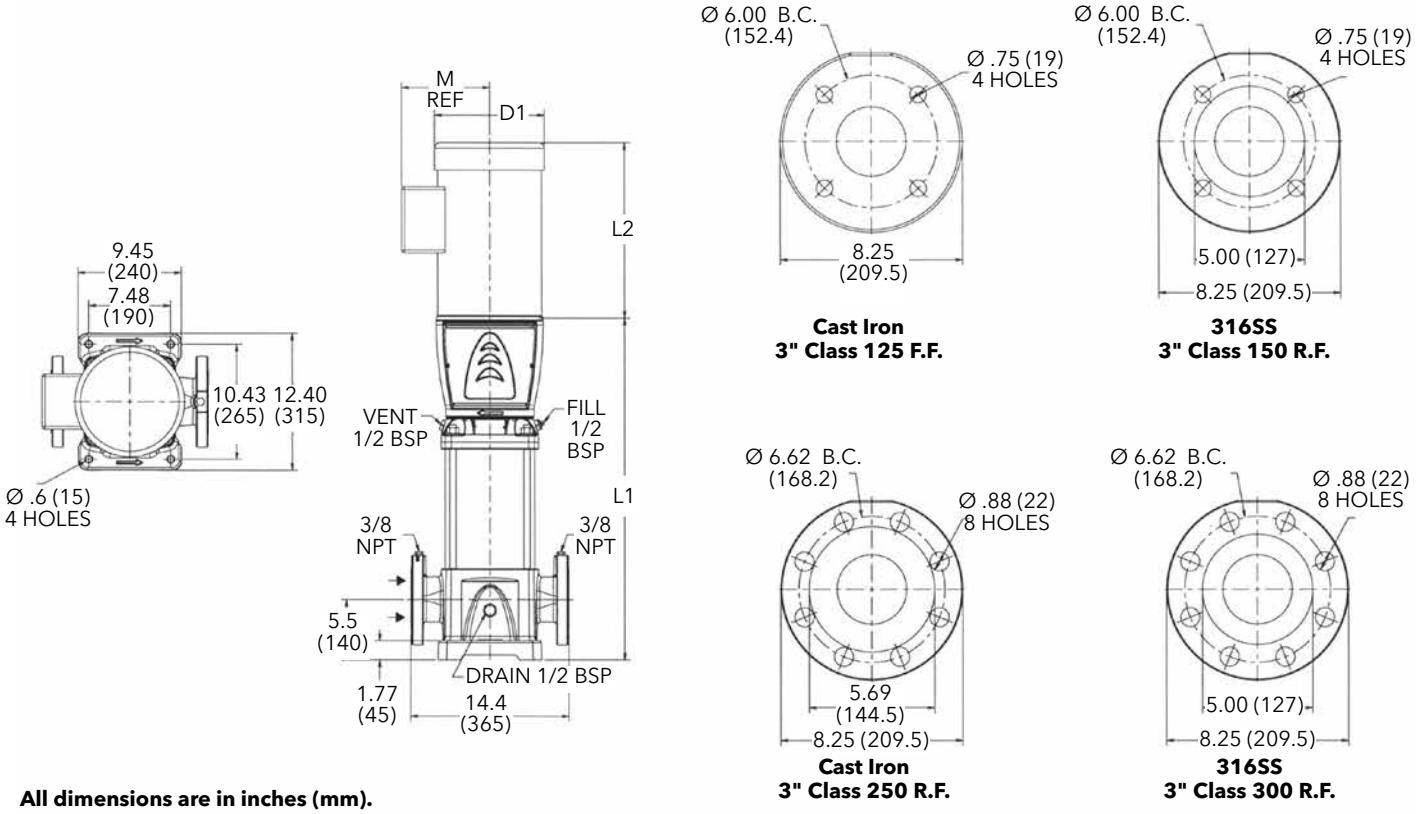


MINIMUM FLOW RATE: 18 GPM [4 m³/hr]

Dimensions and Weights

46SV Series 1750 RPM

60 Hz



All dimensions are in inches (mm).

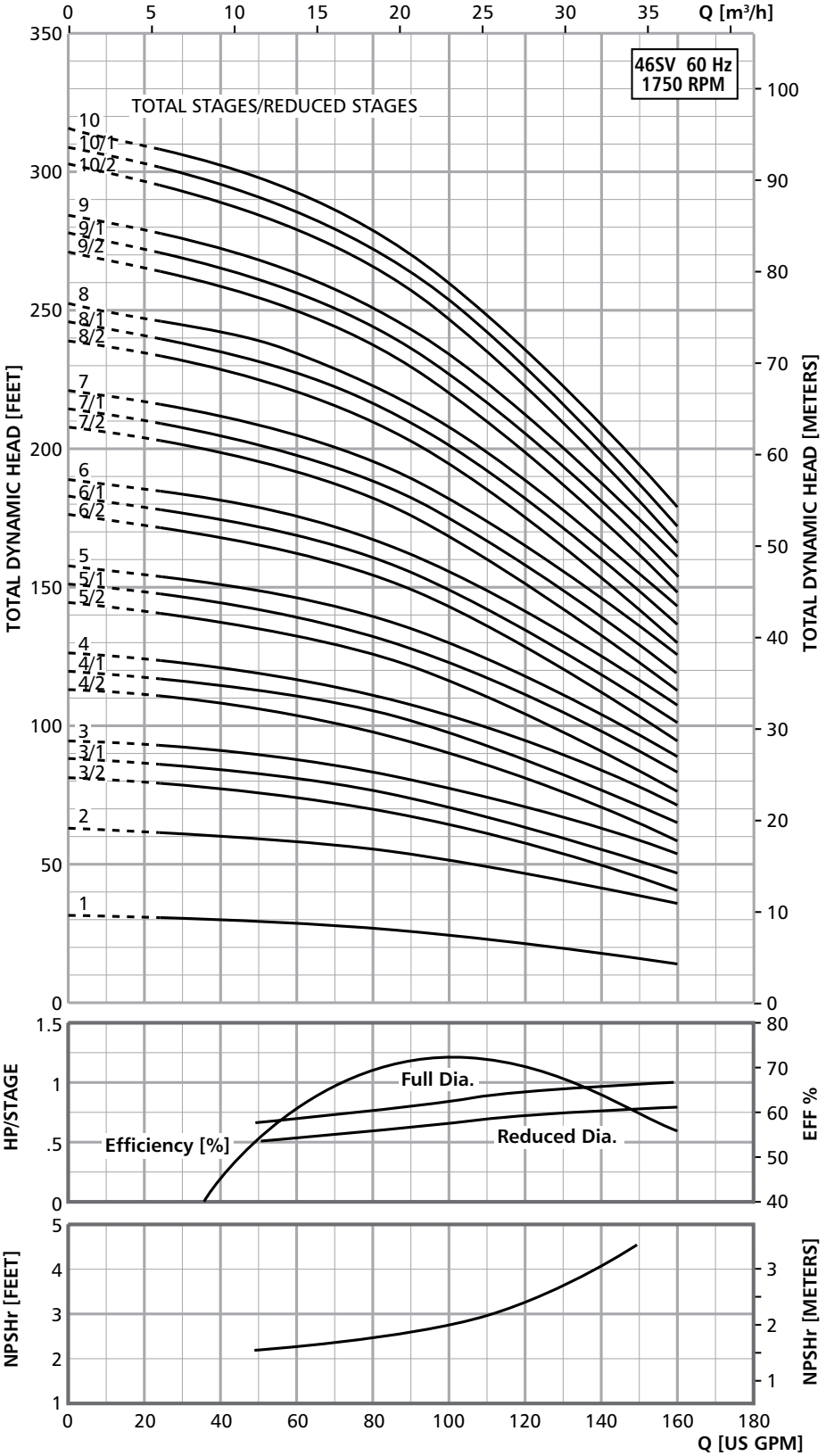
46SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor					Dimensions (in)											Weight (lbs.)								
		NEMA Frame					L2					D1 (max.)						Motor					Pump/Motor			
	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
46SV-1	1.5	-	-	CONTACT FACTORY		22.19	-	-	CONTACT FACTORY			CONTACT FACTORY					147	CONTACT FACTORY							
46SV-2/2	2	-	-			25.19	-	-									158								
46SV-2/1		-	-			25.19	-	-									158								
46SV-2		-	-			25.19	-	-									158								
46SV-3/2	3	-	-	182TC		27.12	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	169	-	-	61	62	-	-	230	231
46SV-3/1		-	-			27.12	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	169	-	-	61	62	-	-	230	231
46SV-3		-	-			27.12	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	169	-	-	61	62	-	-	230	231
46SV-4/2	5	-	-	184TC		31.63	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	192	-	-	68	75	-	-	260	267
46SV-4/1		-	-			31.63	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	192	-	-	68	75	-	-	260	267
46SV-4		-	-			31.63	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	192	-	-	68	75	-	-	260	267
46SV-5/2		-	-			35.56	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	199	-	-	68	75	-	-	267	274
46SV-5/1		-	-			35.56	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	199	-	-	68	75	-	-	267	274
46SV-5		-	-			35.56	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	199	-	-	68	75	-	-	267	274
46SV-6/2		-	-			37.50	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	208	-	-	68	75	-	-	276	283
46SV-6/1	7.5	-	-	213TC		37.50	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	208	-	-	122	125	-	-	330	333
46SV-6		-	-			37.50	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	208	-	-	122	125	-	-	330	333
46SV-7/2		-	-			39.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	233	-	-	122	125	-	-	355	358
46SV-7/1		-	-			39.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	233	-	-	122	125	-	-	355	358
46SV-7		-	-			39.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	233	-	-	122	125	-	-	355	358
46SV-8/2		-	-			42.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	242	-	-	122	125	-	-	364	367
46SV-8/1		-	-			42.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	242	-	-	122	125	-	-	364	367
46SV-8		-	-			42.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	242	-	-	122	125	-	-	364	367
46SV-9/2	10	-	-	215TC		45.88	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	253	-	-	125	129	-	-	378	382
46SV-9/1		-	-			45.88	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	253	-	-	125	129	-	-	378	382
46SV-9		-	-			45.88	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	253	-	-	125	129	-	-	378	382
46SV-10/2		-	-			48.12	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	164	-	-	125	129	-	-	289	293

Performance Curve

46SV 1750 RPM

60 Hz

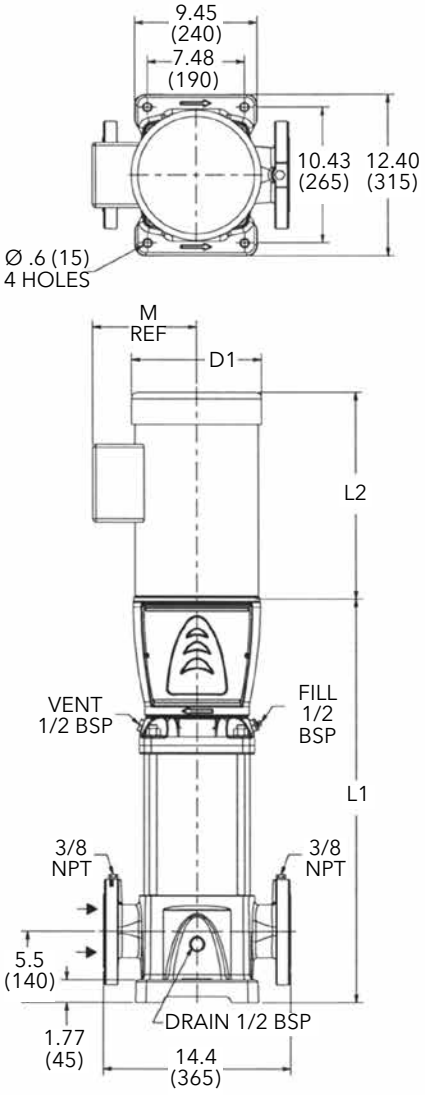


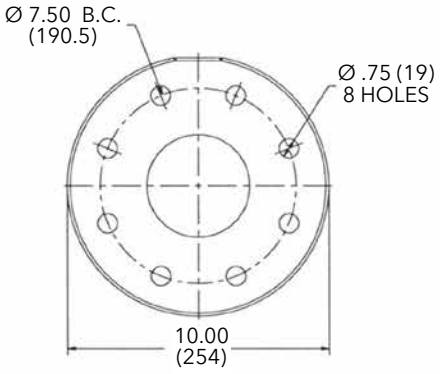
MINIMUM FLOW RATE: 20 GPM [5 m³/hr]

Dimensions and Weights

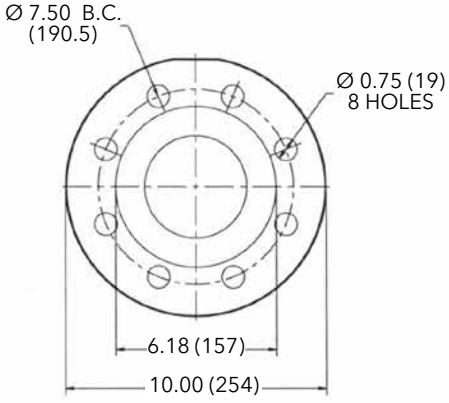
66SV Series 1750 RPM

60 Hz

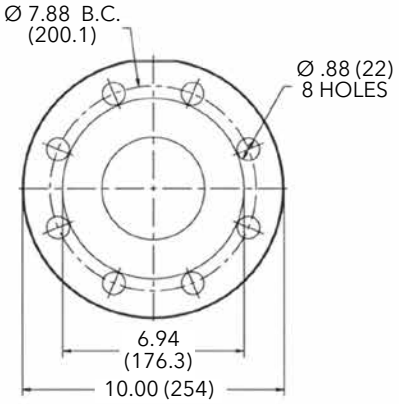




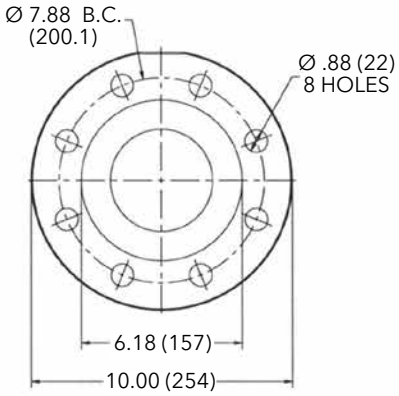
Cast Iron
4" Class 125 F.F.



316SS
4" Class 150 R.F.



Cast Iron
4" Class 250 R.F.



316SS
4" Class 300 R.F.

All dimensions are in inches (mm).

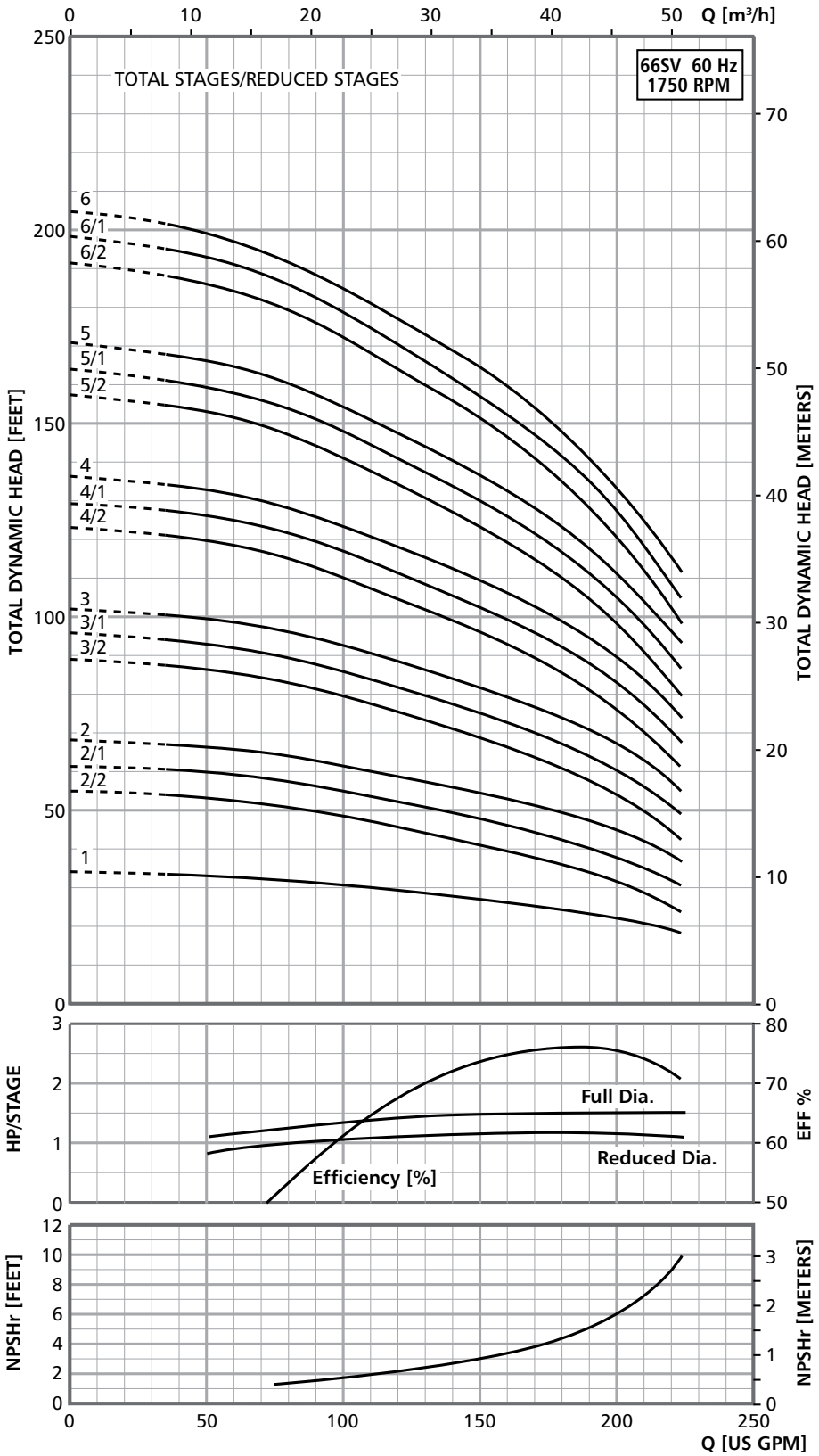
66SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor HP	Motor NEMA Frame ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	Dimensions (in) L1	L2 ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	M (Ref.)	D1 (max.) ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Weight (lbs.) Pump Only	Motor ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	Pump/Motor ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
66SV-1	CONTACT FACTORY				23.19	CONTACT FACTORY					CONTACT FACTORY						185	CONTACT FACTORY							
66SV-2/2	3	-	-	182TC	26.75	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	196	-	-	61	62	-	-	257	258
66SV-2/1		-	-		26.75	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	196	-	-	61	62	-	-	257	258
66SV-2		-	-		26.75	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	196	-	-	61	62	-	-	257	258
66SV-3/2	5	-	-	184TC	30.81	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	223	-	-	68	75	-	-	291	298
66SV-3/1		-	-		30.81	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	223	-	-	68	75	-	-	291	298
66SV-3		-	-		30.81	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	223	-	-	68	75	-	-	291	298
66SV-4/2		-	-		34.38	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	234	-	-	68	75	-	-	302	309
66SV-4/1		-	-		34.38	-	-	13.94	15.44	6.88	-	-	8.50	8.50	5.51	234	-	-	68	75	-	-	302	309
66SV-4	7.5	-	-	213TC	34.38	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	234	-	-	122	125	-	-	356	359
66SV-5/2		-	-		37.44	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	252	-	-	122	125	-	-	374	377
66SV-5/1		-	-		37.44	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	252	-	-	122	125	-	-	374	377
66SV-5		-	-		37.44	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	252	-	-	122	125	-	-	374	377
66SV-6/2		-	-		40.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	266	-	-	122	125	-	-	388	391
66SV-6/1	10	-	-	215TC	40.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	266	-	-	125	129	-	-	391	395
66SV-6		-	-		40.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	266	-	-	125	129	-	-	391	395

Performance Curve

66SV 1750 RPM

60 Hz

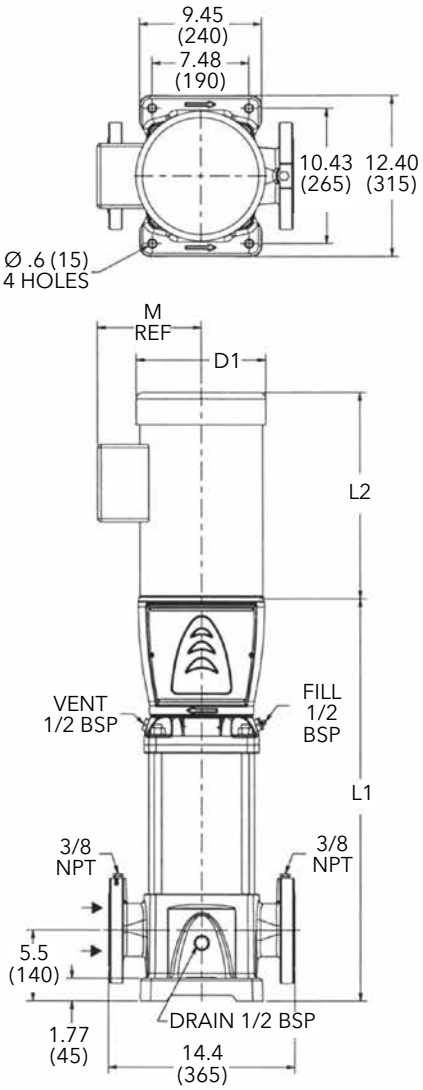


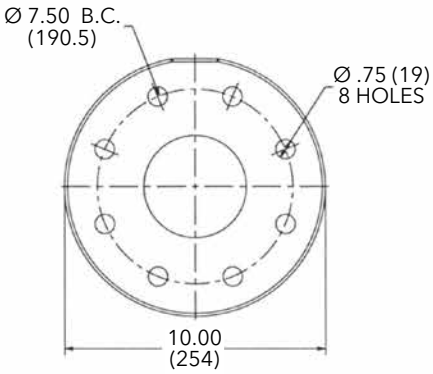
MINIMUM FLOW RATE: 35 GPM [8 m³/hr]

Dimensions and Weights

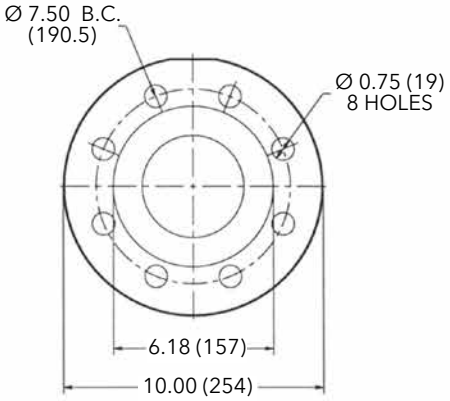
92SV Series 1750 RPM

60 Hz

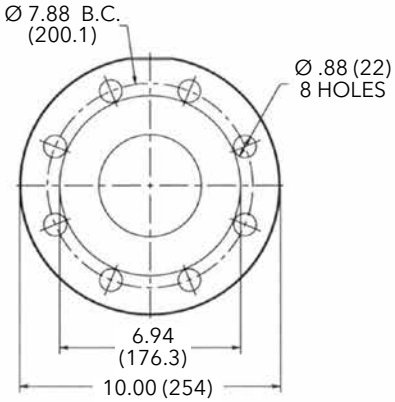




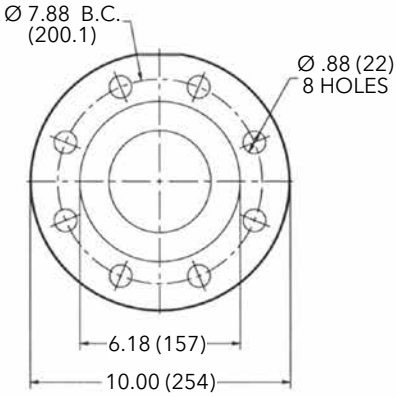
Cast Iron
4" Class 125 F.F.



316SS
4" Class 150 R.F.



Cast Iron
4" Class 250 R.F.



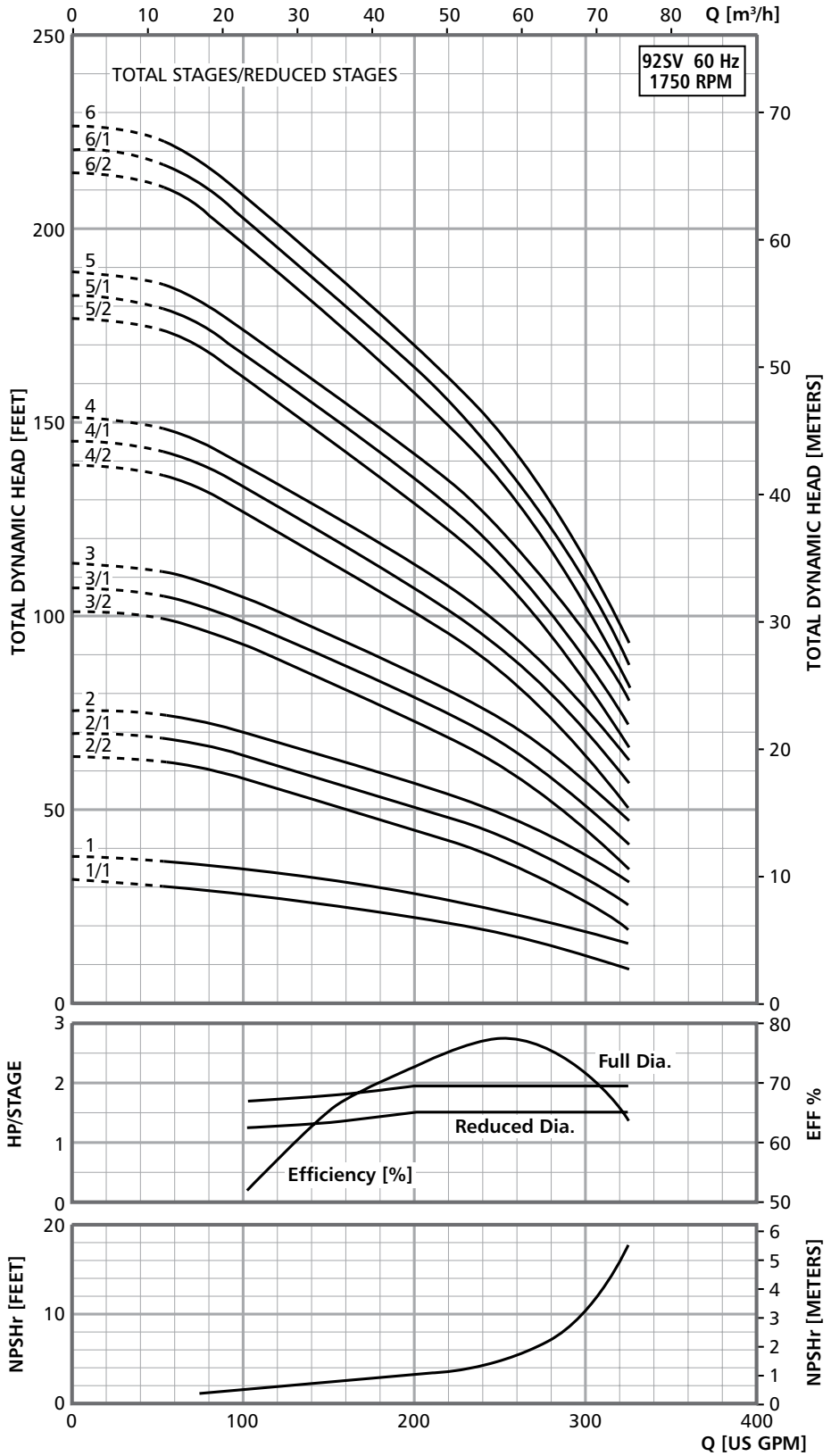
316SS
4" Class 300 R.F.

All dimensions are in inches (mm).

92SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

Pump Type Stages	Motor					Dimensions (in)										Weight (lbs.)								
	HP	NEMA Frame				L1	L2				M (Ref.)	D1 (max.)				D2	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
92SV-1	3	-	-	182TC		23.19	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	185	-	-	61	62	-	-	246	247
92SV-2/2		-	-			26.75	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	61	62	-	-	257	258
92SV-2/1	5	-	-	184TC		26.75	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	61	62	-	-	257	258
92SV-2		-	-			26.75	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	68	75	-	-	264	271
92SV-3/2		-	-			30.81	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	223	-	-	68	75	-	-	291	298
92SV-3/1		-	-			30.81	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	223	-	-	68	75	-	-	291	298
92SV-3		-	-			30.81	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	223	-	-	68	75	-	-	291	298
92SV-4/2	7.5	-	-	213TC		34.38	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	234	-	-	122	125	-	-	356	359
92SV-4/1		-	-			34.38	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	234	-	-	122	125	-	-	356	359
92SV-4		-	-			34.38	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	234	-	-	122	125	-	-	356	359
92SV-5/2		-	-			37.44	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	252	-	-	122	125	-	-	374	377
92SV-5/1	10	-	-	215TC		37.44	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	252	-	-	125	129	-	-	377	381
92SV-5		-	-			37.44	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	252	-	-	125	129	-	-	377	381
92SV-6/2		-	-			40.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	266	-	-	125	129	-	-	391	395
92SV-6/1		-	-			40.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	266	-	-	125	129	-	-	391	395
92SV-6		-	-			40.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	266	-	-	125	129	-	-	391	395

Performance Curve **92SV 1750 RPM** **60 Hz**

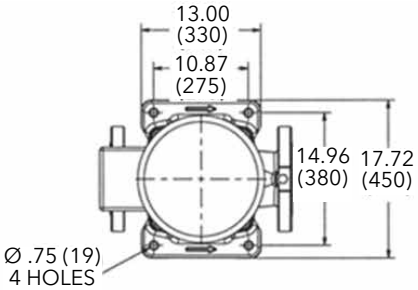


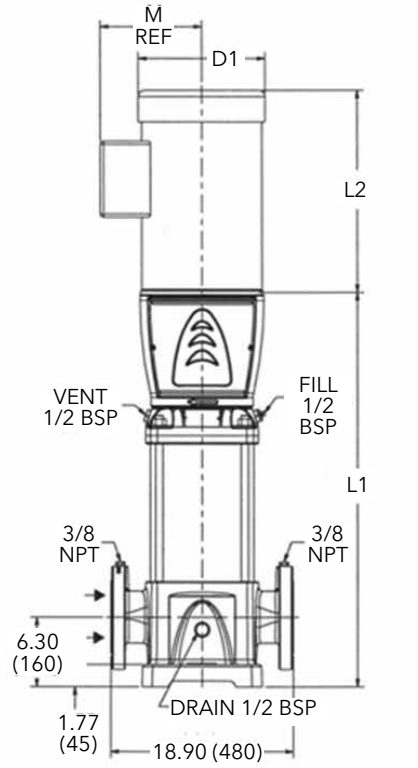
MINIMUM FLOW RATE: 50 GPM [11 m³/hr]

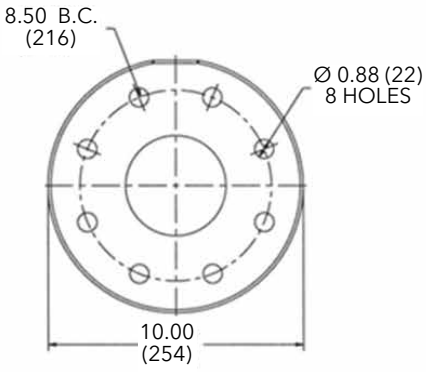
Dimensions and Weights

125SV Series 1750 RPM

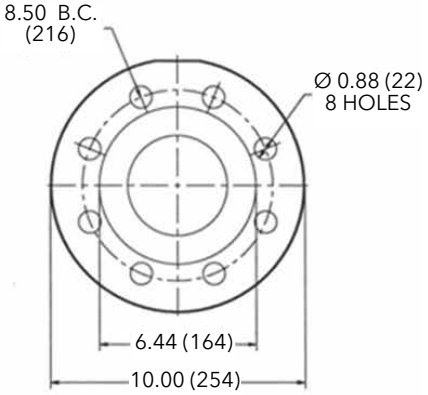
60 Hz



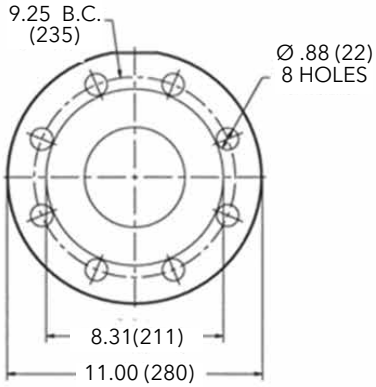




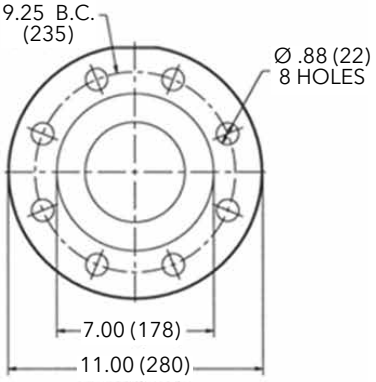
Cast Iron
5" Class 125 F.F.



316SS
5" Class 150 R.F.



Cast Iron
5" Class 250 R.F.



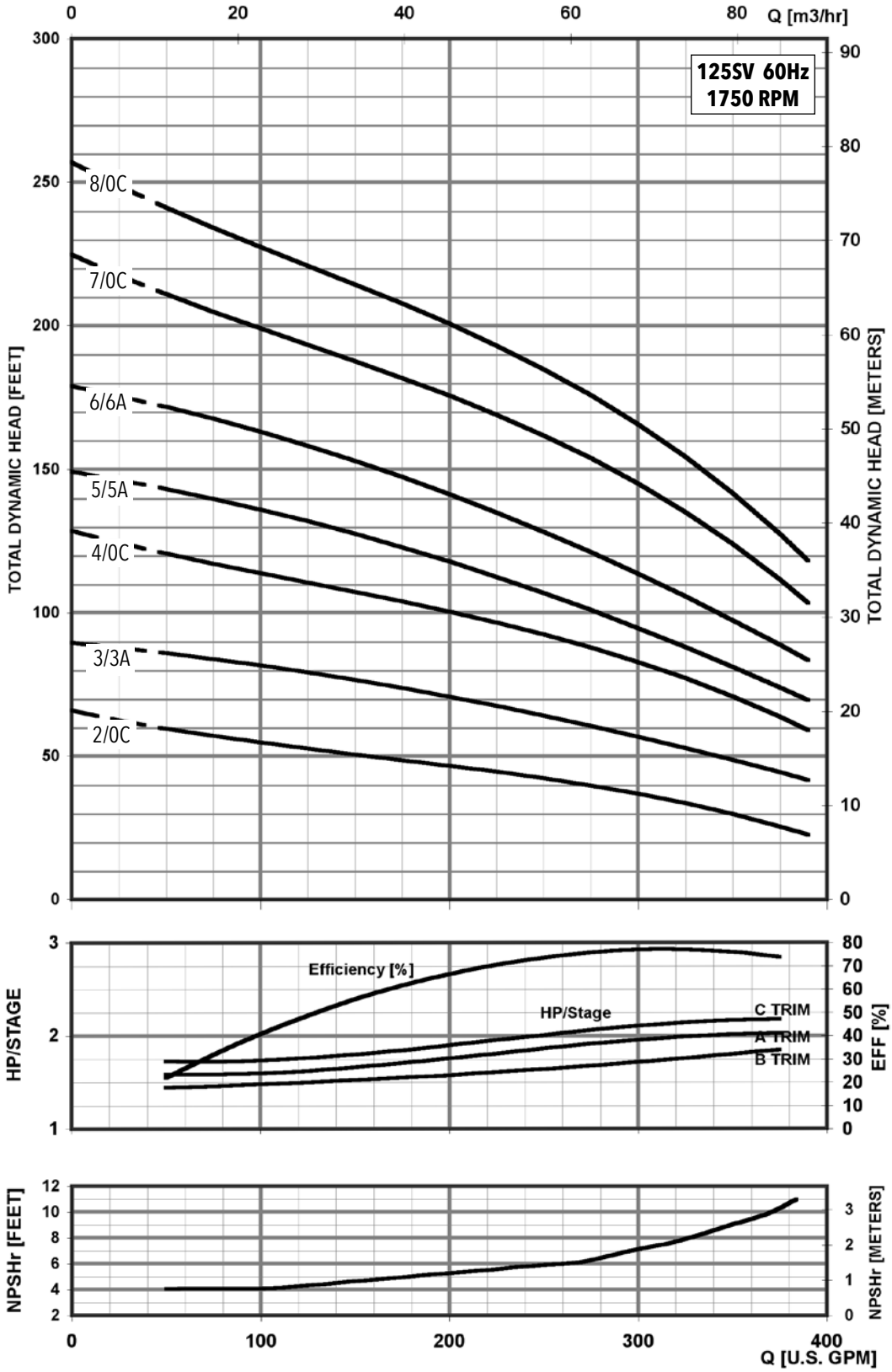
316SS
5" Class 300 R.F.

All dimensions are in inches (mm).

125SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

	Motor					Dimensions (in)															Weight (lbs.)								
		NEMA Frame					L2									D1 (max.)							Motor				Pump/Motor			
Pump Type	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
125SV20C	5	184TC	184TC	182TC	184TC	34.60	13.93	15.43	12.55	13.93	-	-	-	-	6.87	8.88	8.86	9.02	8.86	5.51	289	81	92	62	69	370	381	351	358
125SV33A	5	184TC	184TC	182TC	184TC	40.50	13.93	15.43	12.55	13.93	-	-	-	-	6.87	8.88	8.86	9.02	8.86	5.51	315	81	92	62	69	396	407	377	384
125SV40C	7.5	213TC	213TC	184TC	184TC	46.40	13.88	15.53	13.93	15.43	-	-	-	-	8.05	8.89	10.62	8.88	8.86	5.51	355	100	120	75	85	455	475	430	440
125SV55A	10	215TC	215TC	213TC	215TC	52.30	16.63	16.68	15.55	15.51	-	-	-	-	8.77	10.62	10.18	10.18	10.28	5.51	379	132	145	107	122	511	524	486	501
125SV66A	10	215TC	215TC	213TC	215TC	58.20	16.63	16.68	15.55	15.51	-	-	-	-	8.77	10.62	10.18	10.18	10.28	5.51	412	132	145	107	122	544	557	519	534
125SV70C	15	-	-	215TC	254TC	65.30	-	-	15.55	16.57	-	-	-	-	9.22	-	-	10.18	10.28	5.51	476	-	-	125	195	-	-	601	671
125SV80C	15	-	-	215TC	254TC	71.10	-	-	15.55	16.57	-	-	-	-	9.22	-	-	10.18	10.28	5.51	494	-	-	125	195	-	-	619	689

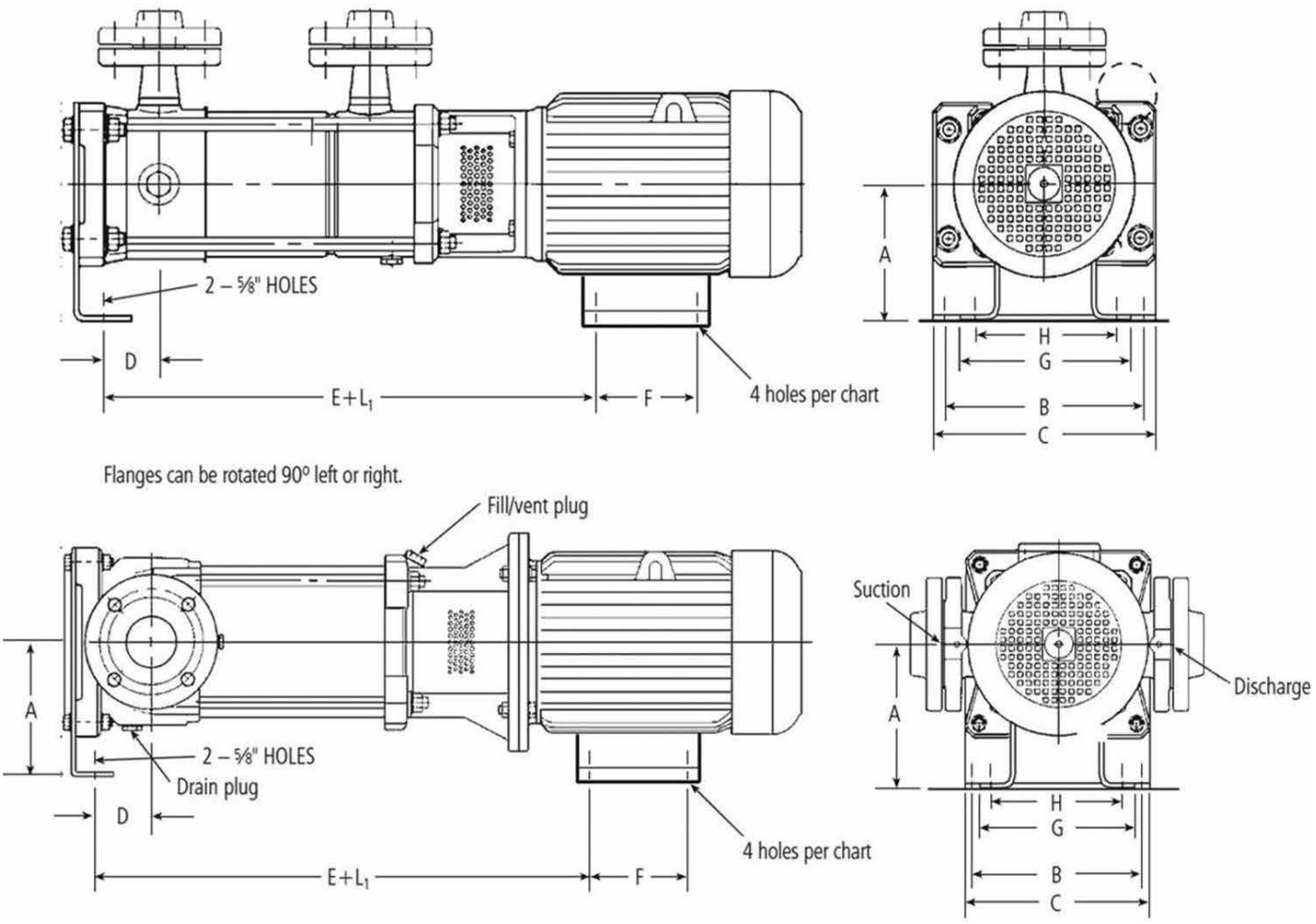
Performance Curve **125SV 1750 RPM** **60 Hz**



MINIMUM FLOW RATE: 50 GPM [10 m³/hr]

1SV – 22SV Horizontal Mounting Option

- Consists of e-SV pump with base mounting foot and footed motor for horizontal installations.
- Unit depicted may not show actual pump configuration. Use for mounting location only.

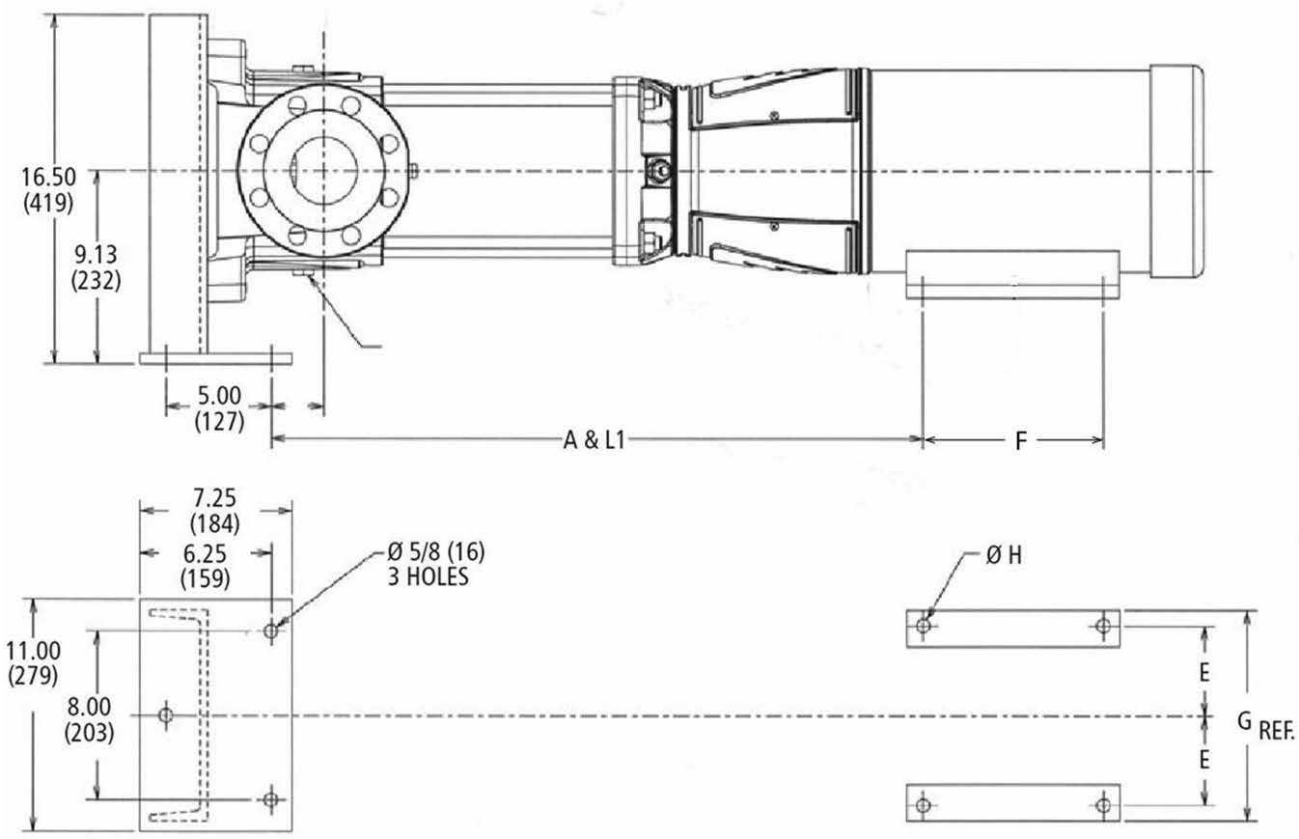


1SV – 22SV HORIZONTAL MOUNTING OPTION

Series	Motor Frame	Flange	A	B	C	D	E	F	G	H	Motor Shim Thickness	Pump Shim Thickness
1SV	56C	T	4.5	7	9	0.219	0.810	3	6.563	4.825	1	-
		F, N, P, G, C	4.5	7	9	1.125	0.810	3	6.563	4.825	1	-
		R	4.5	11	12	1.254	0.940	3	6.563	4.825	1	-
3SV	56C	T	4.5	7	9	0.219	0.81	3	6.563	4.825	1	-
		F, N, P, G, C	4.5	7	9	1.125	0.81	3	6.563	4.825	1	-
		R	4.5	11	12	1.254	0.94	3	6.563	4.825	1	-
	180TC	T	4.5	7	9	0.219	1.88	5.5	6.563	4.825	-	-
		F, N, P, G, C	4.5	7	9	1.125	1.88	5.5	6.563	4.825	-	-
		R	4.5	11	12	1.254	2.01	5.5	6.563	4.825	-	-
	210TC	T	4.5	7	9	0.219	2.5	7	6.563	4.825	-	0.75
		F, N, P, G, C	4.5	7	9	1.125	2.5	7	6.563	4.825	-	0.75
		R	4.5	11	12	1.254	2.63	7	6.563	4.825	-	0.75
5SV	56C	T	4.5	7	9	0.219	0.81	3	6.563	4.825	1	-
		F, N, P, G, C	4.5	7	9	1.125	0.81	3	6.563	4.825	1	-
		R	4.5	11	12	1.254	0.94	3	6.563	4.825	1	-
	180TC	T	4.5	7	9	0.219	1.88	5.5	6.563	4.825	-	-
		F, N, P, G, C	4.5	7	9	1.125	1.88	5.5	6.563	4.825	-	-
		R	4.5	11	12	1.254	2.01	5.5	6.563	4.825	-	-
	210TC	T	4.5	7	9	0.219	2.5	7	6.563	4.825	-	0.75
		F, N, P, G, C	4.5	7	9	1.125	2.5	7	6.563	4.825	-	0.75
		R	4.5	11	12	1.254	2.63	7	6.563	4.825	-	0.75
10SV	56C	T	6.25	9.125	10.50	1.59	1	3	6.563	4.825	2.75	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	1	3	6.563	4.825	2.75	-
		R	6.25	11.875	13.25	1.983	1	3	6.563	4.825	1	-
	180TC	T	6.25	9.125	10.50	1.59	2.07	5.5	8.625	7.50	1.75	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	2.07	5.5	8.625	7.50	1.75	-
		R	6.25	11.875	13.25	1.983	2.07	5.5	8.625	7.50	-	-
	210TC	T	6.25	9.125	10.50	1.59	2.69	7	9.500	8.50	1	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	2.69	7	9.500	8.50	1	-
		R	6.25	11.875	13.25	1.983	2.69	7	9.500	8.50	-	0.75
	250TC	T	6.25	9.125	10.50	1.59	3.19	10	11.500	10.00	-	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	3.19	10	11.500	10.00	-	-
		R	6.25	11.875	13.25	1.983	3.19	10	11.500	10.00	-	1.75
15SV	56C	T	6.25	9.125	10.50	1.59	1	3	6.563	4.825	2.75	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	1	3	6.563	4.825	2.75	-
		R	6.25	11.875	13.25	1.983	1	3	6.563	4.825	1	-
	180TC	T	6.25	9.125	10.50	1.59	2.07	5.5	8.625	7.50	1.75	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	2.07	5.5	8.625	7.50	1.75	-
		R	6.25	11.875	13.25	1.983	2.07	5.5	8.625	7.50	-	-
	210TC	T	6.25	9.125	10.50	1.59	2.69	7	9.500	8.50	1	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	2.69	7	9.500	8.50	1	-
		R	6.25	11.875	13.25	1.983	2.69	7	9.500	8.50	-	0.75
	250TC	T	6.25	9.125	10.50	1.59	3.19	10	11.500	10.00	-	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	3.19	10	11.500	10.00	-	-
		R	6.25	11.875	13.25	1.983	3.19	10	11.500	10.00	-	1.75
	280TC	T	6.25	9.125	10.50	1.59	3.19	11	12.750	12.50	-	0.75
		F, N, P, G, C	6.25	9.125	10.50	1.983	3.19	11	12.750	12.50	-	0.75
		R	6.25	11.875	13.25	1.983	3.19	11	12.750	12.50	-	2.50
22SV	56C	T	6.25	9.125	10.50	1.59	1	3	6.563	4.825	2.75	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	1	3	6.563	4.825	2.75	-
		R	6.25	11.875	13.25	1.983	1	3	6.563	4.825	1	-
	180TC	T	6.25	9.125	10.50	1.59	2.07	5.5	8.625	7.50	1.75	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	2.07	5.5	8.625	7.50	1.75	-
		R	6.25	11.875	13.25	1.983	2.07	5.5	8.625	7.50	-	-
	210TC	T	6.25	9.125	10.50	1.59	2.69	7	9.500	8.50	1	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	2.69	7	9.500	8.50	1	-
		R	6.25	11.875	13.25	1.983	2.69	7	9.500	8.50	-	0.75
	250TC	T	6.25	9.125	10.50	1.59	3.19	10	11.500	10.00	-	-
		F, N, P, G, C	6.25	9.125	10.50	1.983	3.19	10	11.500	10.00	-	-
		R	6.25	11.875	13.25	1.983	3.19	10	11.500	10.00	-	1.75
	280TC	T	6.25	9.125	10.50	1.59	3.19	11	12.750	12.50	-	0.75
		F, N, P, G, C	6.25	9.125	10.50	1.983	3.19	11	12.750	12.50	-	0.75
		R	6.25	11.875	13.25	1.983	3.19	11	12.750	12.50	-	2.50

33SV – 92SV HORIZONTAL MOUNTING OPTION

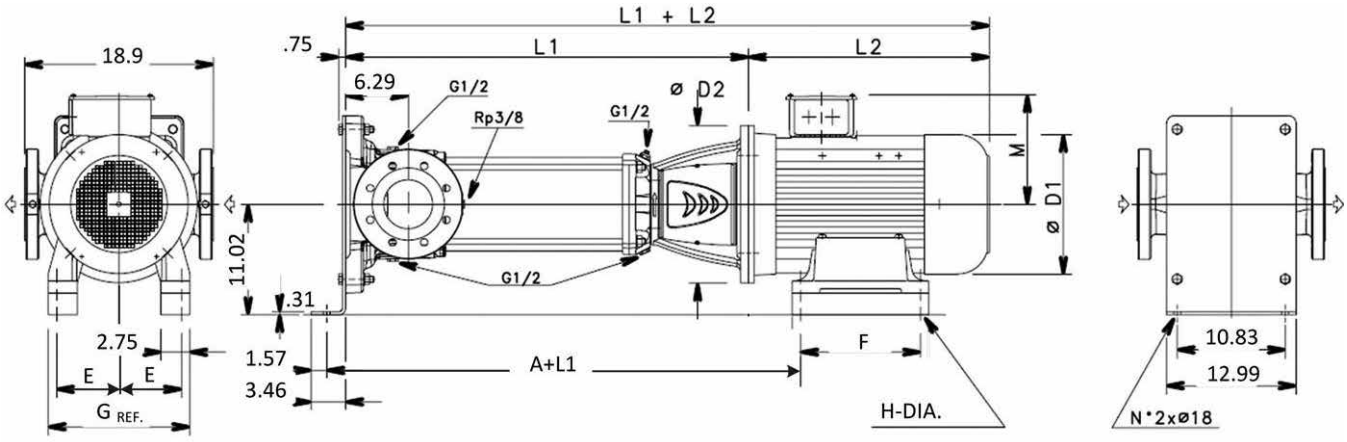
- Consists of e-SV pump with base mounting foot and footed motor for horizontal installations.
- Unit depicted may not show actual pump configuration. Use for mounting location only.



Series	Motor Frame	Flange	A	B	E	F	G	H - DIA.
33SV	182TC	G, N	0.5	1.13	3.5	2.25	8.63	13/32
	184TC					2.75		
	213TC		1.25		4.25	2.75	9.5	
	215TC					3.5		
	254TC		1.75		5	4.12	11.25	17/32
	256TC					5		
	284TC		1.75		5.5	4.75	12.25	
	286TC					5.5		
	324TSC		2.25		6.25	5.25	16	21/32
	326TSC					6		
	364TSC		2.88		7	5.63	18	
	365TSC					6.12		
46/66/92SV	182TC	G, N	0.5	2.5	3.7	2.25	8.63	13/32
	184TC					2.75		
	213TC		1.25		4.25	2.75	9.5	
	215TC					3.5		
	254TC		1.75		5	4.12	11.25	17/32
	256TC					5		
	284TC		1.75		5.5	4.75	16.5	
	286TC					5.5		
	324TSC		2.25		6.25	5.25	15.25	21/32
	326TSC					6		
	364TSC		2.88		7	5.63	17	
	365TSC					6.12		

125SV HORIZONTAL MOUNTING OPTION

- Consists of e-SV pump with base mounting foot and footed motor for horizontal installations.
- Unit depicted may not show actual pump configuration. Use for mounting location only.



Series	Motor Frame	Flange	A	E	F	G (ref.)	H - Dia.
125SV	182TC	G, N	5.20	3.5	2.25	8.63	13/32
	184TC				2.75		
	213TC		5.82	4.25	2.75	9.5	
	215TC				3.5		
	254TC		6.32	5	4.12	11.25	17/32
	256TC				5		
	284TC		6.32	5.5	4.75	12.25	
	286TC				5.5		
	324TSC		6.82	6.25	5.25	16	21/32
	326TSC				6		
	364TSC		7.45	7	5.63	18	
	365TSC				6.12		

Technical Data – Pump Hydraulics / Motor Sizing

1SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
30	3.45	3.00	56C	56C	5.00	184TC	184TC	860	372	25.7	40 Bar (580 psi)	Class 250 / 300
29	3.34		56C	56C		184TC	184TC	835	362	24.9	25 Bar (362 psi)	
28	3.22		56C	56C		184TC	184TC	810	351	24.2		
27	3.11		56C	56C		184TC	184TC	780	338	23.3		
26	2.99		56C	56C	3.00	56C	56C	750	325	22.4		
25	2.88		56C	56C		56C	56C	720	312	21.5		
24	2.76		56C	56C		56C	56C	695	301	20.7		
23	2.67		56C	56C		56C	56C	665	288	19.8		
22	2.53		56C	56C		56C	56C	635	275	18.9		
21	2.42		56C	56C		56C	56C	610	264	18.2		
20	2.30	2.00	56C	56C		56C	56C	580	251	17.3		
19	2.19		56C	56C		56C	56C	550	238	16.4		
18	2.07		56C	56C		56C	56C	520	225	15.5		
17	1.96		56C	56C	2.00	56C	56C	485	210	14.5		
16	1.84		56C	56C		56C	56C	455	197	13.6		
15	1.73	1.50	56C	56C		56C	56C	425	184	12.7		
14	1.61		56C	56C		56C	56C	400	173	11.9		
13	1.50		56C	56C	1.50	56C	56C	375	162	11.2		
12	1.38		56C	56C		56C	56C	345	149	10.3		
11	1.27		56C	56C		56C	56C	315	136	9.4		
10	1.15	1.00	56C	56C		56C	56C	290	126	8.7		
9	1.04		56C	56C		56C	56C	255	110	7.6		
8	0.92	0.75	56C	56C	1.00	56C	56C	230	100	6.9		
7	0.81		56C	56C		56C	56C	200	87	6.0		
6	0.69		56C	56C	0.75	56C	56C	175	76	5.2		
5	0.58	0.50	56C	56C		56C	56C	145	63	4.3		
4	0.46		56C	56C	0.50	56C	56C	115	50	3.4		
3	0.35		56C	56C		56C	56C	85	37	2.5		
2	0.23		56C	56C		56C	56C	60	26	1.8		

3SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
30	6.24	7.50	213TC	213TC	7.50	213TC	213TC	1085	470	32.4	40 Bar (580 psi)	Class 250 / 300
29	6.03		213TC	213TC		213TC	213TC	1050	455	31.3		
28	5.82		213TC	213TC		213TC	213TC	1015	440	30.3		
27	5.62	5.00	184TC	184TC		213TC	213TC	975	422	29.1		
26	5.41		184TC	184TC		213TC	213TC	940	407	28.0		
25	5.20		184TC	184TC		213TC	213TC	900	390	26.9		
24	4.99		184TC	184TC	5.00	184TC	184TC	865	375	25.8		
23	4.78		184TC	184TC		184TC	184TC	825	357	24.6	25 Bar (362 psi)	
22	4.58		184TC	184TC		184TC	184TC	795	344	23.7		
21	4.37		184TC	184TC		184TC	184TC	760	329	22.7		
20	4.16		184TC	184TC		184TC	184TC	720	312	21.5		
19	3.95		184TC	184TC		184TC	184TC	680	294	20.3		
18	3.74		184TC	184TC		184TC	184TC	645	279	19.2		
17	3.54		184TC	184TC		184TC	184TC	610	264	18.2		
16	3.33	3.00	56C	56C		184TC	184TC	575	249	17.2		
15	3.12		56C	56C		184TC	184TC	540	234	16.1		
14	2.91		56C	56C	3.00	56C	56C	500	217	14.9		
13	2.70		56C	56C		56C	56C	465	201	13.9		
12	2.50		56C	56C		56C	56C	430	186	12.8		
11	2.29	2.00	56C	56C		56C	56C	395	171	11.8		
10	2.08		56C	56C		56C	56C	360	156	10.7		
9	1.87		56C	56C	2.00	56C	56C	320	139	9.5		
8	1.66	1.50	56C	56C		56C	56C	285	123	8.5		
7	1.46		56C	56C	1.50	56C	56C	250	108	7.5		
6	1.25		56C	56C		56C	56C	215	93	6.4		
5	1.04	1.00	56C	56C		56C	56C	180	78	5.4		
4	0.83	0.75	56C	56C	1.00	56C	56C	145	63	4.3		
3	0.62	0.50	56C	56C	0.75	56C	56C	105	45	3.1		
2	0.42		56C	56C	0.50	56C	56C	70	30	2.1		

TECHNICAL DATA – PUMP HYDRAULICS / MOTOR SIZING

5SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
27	8.80	10.00	215TC	215TC	10.00	215TC	215TC	975	422	29.1	40 Bar (580 psi)	Class 250 / 300
26	8.48	7.50	213TC	213TC		215TC	215TC	940	407	28.0		
25	8.15		213TC	213TC		215TC	215TC	900	390	26.9		
24	7.82		213TC	213TC		215TC	215TC	865	375	25.8		
23	7.50		213TC	213TC	7.50	213TC	213TC	825	357	24.6	25 Bar (362 psi)	
22	7.17		213TC	213TC		213TC	213TC	785	340	23.4		
21	6.85		213TC	213TC		213TC	213TC	745	323	22.2		
20	6.52		213TC	213TC		213TC	213TC	715	310	21.3		
19	6.19		213TC	213TC		213TC	213TC	685	297	20.4		
18	5.87		213TC	213TC		213TC	213TC	650	282	19.4		
17	5.54	5.00	184TC	184TC		213TC	213TC	615	266	18.4		
16	5.22		184TC	184TC		213TC	213TC	575	249	17.2		
15	4.89		184TC	184TC	5.00	184TC	184TC	540	234	16.1		
14	4.56		184TC	184TC		184TC	184TC	505	219	15.1		
13	4.24		184TC	184TC		184TC	184TC	470	204	14.0		
12	3.91		184TC	184TC		184TC	184TC	430	186	12.8		
11	3.59		184TC	184TC		184TC	184TC	395	171	11.8		
10	3.26	3.00	56C	56C		184TC	184TC	360	156	10.7		
9	2.93		56C	56C	3.00	56C	56C	320	139	9.5		
8	2.61		56C	56C		56C	56C	285	123	8.5		
7	2.28	2.00	56C	56C		56C	56C	250	108	7.5		
6	1.96		56C	56C	2.00	56C	56C	220	95	6.6		
5	1.63	1.50	56C	56C		56C	56C	180	78	5.4		
4	1.30		56C	56C	1.50	56C	56C	145	63	4.3		
3	0.98	1.00	56C	56C	1.00	56C	56C	110	48	3.3		
2	0.65	0.75	56C	56C	0.75	56C	56C	70	30	2.1		

10SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
20	17.84	20.00	254TC	256TC	20.00	254TC	256TC	1150	498	34.3	40 Bar (580 psi)	Victaulic
19	16.95	15.00	215TC	254TC		254TC	256TC	1095	474	32.7		Class 250 / 300
18	16.06		215TC	254TC		254TC	256TC	1035	448	30.9		
17	15.16		215TC	254TC		254TC	256TC	975	422	29.1		
16	14.27		215TC	254TC	15.00	215TC	254TC	920	398	27.5		
15	13.38		215TC	254TC		215TC	254TC	860	372	25.7		
14	12.49	10.00	215TC	215TC		215TC	254TC	805	349	24.0	25 Bar (362 psi)	
13	11.60		215TC	215TC		215TC	254TC	745	323	22.2		
12	10.70		215TC	215TC		215TC	254TC	690	299	20.6		
11	9.81		215TC	215TC	10.00	215TC	215TC	630	273	18.8		
10	8.92		215TC	215TC		215TC	215TC	575	249	17.2		
9	8.03	7.50	213TC	213TC		215TC	215TC	520	225	15.5		
8	7.14		213TC	213TC	7.50	213TC	213TC	460	199	13.7		
7	6.24		213TC	213TC		213TC	213TC	400	173	11.9		
6	5.35	5.00	184TC	184TC		213TC	213TC	340	147	10.1		
5	4.46		184TC	184TC	5.00	184TC	184TC	285	123	8.5		
4	3.57		184TC	184TC		184TC	184TC	225	97	6.7		
3	2.68	3.00	56C	56C	3.00	56C	56C	170	74	5.1		
2	1.78	2.00	56C	56C	2.00	56C	56C	115	50	3.4		
1	0.89	0.75	56C	56C	1.00	56C	56C	60	26	1.8		

TECHNICAL DATA – PUMP HYDRAULICS / MOTOR SIZING

15SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
15	28.50	25.00	254TC	284TC	30.00	284TC	286TC	1060	459	31.6	40 Bar (580 psi)	Class 250 / 300
14	26.60		254TC	284TC		284TC	286TC	990	429	29.5		
13	24.70		254TC	284TC	25.00	254TC	284TC	915	396	27.3		
12	22.80	20.00	254TC	256TC		254TC	284TC	850	368	25.4		
11	20.90		254TC	256TC		254TC	284TC	780	338	23.3	25 Bar (362 psi)	
10	19.00		254TC	256TC	20.00	254TC	256TC	705	305	21.0		
9	17.10	15.00	215TC	254TC		254TC	256TC	635	275	18.9		
8	15.20		215TC	254TC		254TC	256TC	565	245	16.9		
7	13.30		215TC	254TC	15.00	215TC	254TC	485	210	14.5		
6	11.40	10.00	215TC	215TC		215TC	254TC	420	182	12.5		
5	9.50		215TC	215TC	10.00	215TC	215TC	345	149	10.3		
4	7.60	7.50	213TC	213TC		215TC	215TC	275	119	8.2		
3	5.70	5.00	184TC	184TC	7.50	213TC	213TC	210	91	6.3		
2	3.80		184TC	184TC	5.00	184TC	184TC	140	61	4.2		
1	1.90	2.00	56C	56C	2.00	56C	56C	70	30	2.1		

22SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
12	28.92	25.00	254TC	284TC	30.00	284TC	286TC	880	381	26.3	40 Bar (580 psi)	Class 250 / 300
11	26.51		254TC	284TC		284TC	286TC	810	351	24.2	25 Bar (362 psi)	
10	24.10		254TC	284TC	25.00	254TC	284TC	735	318	21.9		
9	21.69	20.00	254TC	256TC		254TC	284TC	660	286	19.7		
8	19.28		254TC	256TC	20.00	254TC	256TC	585	253	17.5		
7	16.87	15.00	215TC	254TC		254TC	256TC	515	223	15.4		
6	14.46		215TC	254TC	15.00	215TC	254TC	440	191	13.1		
5	12.05		215TC	254TC		215TC	254TC	365	158	10.9		
4	9.64	10.00	215TC	215TC	10.00	215TC	215TC	295	128	8.8		
3	7.23	7.50	213TC	213TC	7.50	213TC	213TC	220	95	6.6		
2	4.82	5.00	184TC	184TC	5.00	184TC	184TC	245	106	7.3		
1	2.41	3.00	56C	56C	3.00	56C	56C	70	30	2.1		

TECHNICAL DATA – PUMP HYDRAULICS / MOTOR SIZING

33SV 3500 RPM

# of Impellers / # reduced Diameter	Maximum HP Draw	Motor HP for use with 1.15 SF Motor	Motor HP for use with Hydrovar (1.0 SF)	Shutoff TDH (Feet)	Shutoff TDH (Bar)	Casing / Sleeve Pressure rating (Standard Assy.)	Stages requiring Thrust Balancing Piston	Pump Flange Rating
10	54.3	50	60	1125	34	40 Bar (580 PSI)	Thrust Piston Required	Class 250 / 300
10/2	52.8			1096	33			
10/1	51.3			1066	32			
9	48.8		50	1012	30			
9/1	47.4			983	29			
9/2	45.9			954	28			
8	43.4	40		900	27			
8/1	41.9			871	26			
8/2	40.5			842	25			
7	38		40	787	23			
7/1	36.5			758	23			
7/2	35			729	22			
6	32.6	30		576	20	25 Bar (362 PSI) ①		
6/1	31.1			646	19			
6/2	29.6		30	617	18			
5	27.1	25		562	17			
5/1	25.7			533	16			
5/2	24.2		25	504	15			
4	21.7	20		450	13			Class 125 / 150
4/1	20.2		20	421	13			
4/2	18.8			392	12			
3	16.3	15		337	10			
3/1	14.7		15	310	9			
3/2	13.2			281	8			
2	10.9	10		225	7			
2/1	9.4		10	196	6			
2/2	7.9	7.5		167	5			
1	5.4	5	7.5	113	3			
1/1	4		5	84	3			

① Pump assembly may be modified for 40 bar (580 psi) application – contact factory.

TECHNICAL DATA – PUMP HYDRAULICS / MOTOR SIZING

46SV 3500 RPM

# of Impellers / # reduced Diameter	Maximum HP Draw	Motor HP for use with 1.15 SF Motor	Motor HP for use with Hydrovar (1.0 SF)	Shutoff TDH (Feet)	Shutoff TDH (Bar)	Casing / Sleeve Pressure rating (Standard Assy.)	Stages requiring Thrust Balancing Piston	Pump Flange Rating
10/2	77.8	75		1210	36.1	40 Bar (580 PSI)	Thrust Piston Required	Class 250 / 300
9	73.2		75	1137	33.9			
9/1	71.5			1111	33.2			
9/2	69.7			1085	32.4			
8	65	60		1010	30.2			
8/1	63.3			984	29.4			
8/2	61.6			959	28.6			
7	56.9		60	884	26.4			
7/1	55.2	50		858	25.6			
7/2	53.4			832	24.8			
6	48.8		50	758	22.6			
6/1	47.1			732	21.9			
6/2	45.3	40		706	21.1			
5	40.7		40	632	18.9	25 Bar (362 PSI) ①		
5/1	38.9			605	18.1			
5/2	37.2			580	17.3			
4	32.5	30		505	15.1			
4/1	30.8		30	479	14.3			
4/2	29			453	13.5			
3	24.4	25	25	379	11.3			Class 125 / 150
3/1	22.7	20		353	10.5			
3/2	20.9			327	9.8			
2	16.3	15	20	253	7.6			
2/1	14.5		15	226	6.7			
2/2	12.8			200	6.0			
1	8.5	10	10	127	3.8			
1/1	6.7	7.5	7.5	102	3.0			

66SV 3500 RPM

# of Impellers / # reduced Diameter	Maximum HP Draw	Motor HP for use with 1.15 SF Motor	Motor HP for use with Hydrovar (1.0 SF)	Shutoff TDH (Feet)	Shutoff TDH (Bar)	Casing / Sleeve Pressure rating (Standard Assy.)	Stages requiring Thrust Balancing Piston	Pump Flange Rating
6	73.2	75	75	850	25.4	40 Bar (580 PSI)	Thrust Piston Required	Class 250 / 300
6/1	70.2			822	24.5			
6/2	67.2			796	23.8			
5	61	60		707	21.1	25 Bar (362 PSI) ①		
5/1	58		60	681	20.3			
5/2	55	50		655	19.6			
4	48.8		50	566	16.9			
4/1	45.8			540	16.1			
4/2	42.8	40		513	15.3			
3	36.6		40	424	12.7			Class 125 / 150
3/1	33.6	30		398	11.9			
3/2	30.6		30	372	11.1			
2	24.4	25	25	283	8.4			
2/1	21.4	20		257	7.7			
2/2	18.4		20	230	6.9			
1	12.2	15	15	142	4.2			
1/1	9.2	10	10	115	3.4			

① Pump assembly may be modified for 40 bar (580 psi) application – contact factory.

TECHNICAL DATA – PUMP HYDRAULICS / MOTOR SIZING

92SV 3500 RPM

# of Impellers / # reduced Diameter	Maximum HP Draw	Motor HP for use with 1.15 SF Motor	Motor HP for use with Hydrovar (1.0 SF)	Shutoff TDH (Feet)	Shutoff TDH (Bar)	Casing / Sleeve Pressure rating (Standard Assy.)	Stages requiring Thrust Balancing Piston	Pump Flange Rating
5/1	73.8	75	75	732	21.9	25 Bar (362 PSI) ①	Thrust Piston Required	Class 250 / 300
5/2	70.3			707	21.1			
4	61.9	60		605	18.1			
4/1	58.3		60	580	17.3			
4/2	54.8			556	16.6			
3	46.5	50	50	454	13.6			
3/1	42.9	40		429	12.8			Class 125 / 150
3/2	39.4		40	405	12.1			
2	31	30		305	9.1			
2/1	27.4		30	278	8.3			
2/2	23.4	25	25	253	7.6			
1	15.5	15	20	151	4.5			
1/1	12		15	127	3.8			

① Pump assembly may be modified for 40 bar (580 psi) application – contact factory.

125SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
5/0C	82.32	75	364TSC	365TSC	Contact Factory			643	278	19.2	25 Bar (362 psi)	Class 250 / 300
5/5B	67.84	60	324TSC	326TSC	75	364TSC	365TSC	555	240	16.6		
4/3B	57.35	50	324TSC	326TSC	60	324TSC	326TSC	461	200	13.8		
3/3A	45.60	40	286TC	286TC	50	324TSC	326TSC	358	155	10.7		Class 125 / 150
2/0C	34.79	30	284TC	286TC	40	286TC	286TC	263	114	7.8		
1/0C	17.40	15	215TC	254TC	20	254TC	256TC	131	57	3.9		

TECHNICAL DATA – PUMP HYDRAULICS / MOTOR SIZING

1SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
30	0.44	0.50	56C	56C	0.50	56C	56C	210	91	6.3	25 Bar (362 psi)	Class 250 / 300
29	0.43		56C	56C		56C	56C	203	88	6.1		
28	0.41		56C	56C		56C	56C	196	85	5.8		
27	0.40		56C	56C		56C	56C	189	82	5.6		
26	0.38		56C	56C		56C	56C	181	78	5.4		
25	0.37		56C	56C		56C	56C	175	76	5.2		
24	0.36		56C	56C		56C	56C	168	73	5.0		
23	0.34		56C	56C		56C	56C	162	70	4.8		
22	0.33		56C	56C		56C	56C	155	67	4.6		
21	0.31		56C	56C		56C	56C	148	64	4.4		
20	0.30		56C	56C		56C	56C	141	61	4.2		
19	0.28		56C	56C		56C	56C	134	58	4.0		
18	0.27		56C	56C		56C	56C	127	55	3.8		
17	0.25		56C	56C		56C	56C	120	52	3.6		
15	0.22		56C	56C		56C	56C	107	46	3.2		
14	0.21		56C	56C		56C	56C	100	43	3.0		
13	0.19		56C	56C		56C	56C	93	40	2.8		
12	0.18		56C	56C		56C	56C	86	37	2.6		
11	0.16		56C	56C		56C	56C	79	34	2.4		
10	0.15		56C	56C		56C	56C	72	31	2.1		
9	0.13		56C	56C		56C	56C	65	28	1.9		
8	0.12		56C	56C		56C	56C	58	25	1.7		
7	0.10		56C	56C		56C	56C	50	22	1.5		
6	0.09		56C	56C		56C	56C	43	19	1.3		
5	0.07		56C	56C		56C	56C	36	16	1.1		
4	0.06		56C	56C		56C	56C	29	13	0.9		
3	0.04		56C	56C		56C	56C	22	10	0.7		
2	0.03		56C	56C		56C	56C	15	6	0.4		

3SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
30	0.73	0.75	56C	56C	0.75	56C	56C	267	116	8.0	25 Bar (362 psi)	Class 250 / 300
29	0.71		56C	56C		56C	56C	257	111	7.7		
28	0.68		56C	56C		56C	56C	249	108	7.4		
27	0.66		56C	56C		56C	56C	240	104	7.2		
26	0.63		56C	56C		56C	56C	231	100	6.9		
25	0.61	0.50	56C	56C		56C	56C	222	96	6.6		
24	0.59		56C	56C		56C	56C	213	92	6.4		
23	0.56		56C	56C		56C	56C	204	88	6.1		
22	0.54		56C	56C		56C	56C	194	84	5.8		
21	0.51		56C	56C		56C	56C	184	80	5.5		
20	0.49		56C	56C	0.50	56C	56C	167	72	5.0		
19	0.46		56C	56C		56C	56C	162	70	4.8		
18	0.44		56C	56C		56C	56C	156	68	4.7		
17	0.41		56C	56C		56C	56C	150	65	4.5		
16	0.39		56C	56C		56C	56C	141	61	4.2		
15	0.37		56C	56C		56C	56C	132	57	3.9		
14	0.34		56C	56C		56C	56C	124	54	3.7		
13	0.32		56C	56C		56C	56C	115	50	3.4		
12	0.29		56C	56C		56C	56C	105	45	3.1		
11	0.27		56C	56C		56C	56C	97	42	2.9		
10	0.24		56C	56C		56C	56C	89	39	2.7		
9	0.22		56C	56C		56C	56C	80	35	2.4		
8	0.20		56C	56C		56C	56C	71	31	2.1		
7	0.17		56C	56C		56C	56C	63	27	1.9		
6	0.15		56C	56C		56C	56C	54	23	1.6		
5	0.12		56C	56C		56C	56C	45	19	1.3		
4	0.10		56C	56C		56C	56C	36	16	1.1		
3	0.07		56C	56C		56C	56C	28	12	0.8		
2	0.05		56C	56C		56C	56C	19	8	0.6		

TECHNICAL DATA – PUMP HYDRAULICS / MOTOR SIZING

5SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
27	1.02	1.00	56C	56C	1.50	56C	56C	239	104	7.1	25 Bar (362 psi)	Class 250 / 300
26	0.98		56C	56C	1.00	56C	56C	230	100	6.9		
25	0.94		56C	56C		56C	56C	220	95	6.6		
24	0.90	.75	56C	56C		56C	56C	212	92	6.3		
23	0.87		56C	56C		56C	56C	203	88	6.1		
22	0.83		56C	56C		56C	56C	195	84	5.8		
21	0.79		56C	56C		56C	56C	186	81	5.6		
20	0.75		56C	56C	0.75	56C	56C	177	77	5.3		
19	0.72		56C	56C		56C	56C	167	72	5.0		
18	0.68		56C	56C		56C	56C	159	69	4.7		
17	0.64		56C	56C		56C	56C	150	65	4.5		
16	0.60	0.50	56C	56C		56C	56C	142	61	4.2		
15	0.57		56C	56C		56C	56C	133	58	4.0		
14	0.53		56C	56C		56C	56C	124	54	3.7		
13	0.49		56C	56C	0.50	56C	56C	114	49	3.4		
12	0.45		56C	56C		56C	56C	106	46	3.2		
11	0.41		56C	56C		56C	56C	97	42	2.9		
10	0.38		56C	56C		56C	56C	88	38	2.6		
9	0.34		56C	56C		56C	56C	79	34	2.4		
8	0.30		56C	56C		56C	56C	71	31	2.1		
7	0.26		56C	56C		56C	56C	62	27	1.9		
6	0.23		56C	56C		56C	56C	54	23	1.6		
5	0.19		56C	56C		56C	56C	45	19	1.3		
4	0.15		56C	56C		56C	56C	37	16	1.1		
3	0.11		56C	56C		56C	56C	28	12	0.8		
2	0.08		56C	56C		56C	56C	19	8	0.6		

10SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
20	2.34	3.00	56C	56C	3.00	56C	56C	286	124	8.5	25 Bar (362 psi)	Class 250 / 300
19	2.22	2.00	56C	56C		56C	56C	272	118	8.1		
18	2.11		56C	56C		56C	56C	257	111	7.7		
17	1.99		56C	56C	2.00	56C	56C	243	105	7.3		
16	1.87		56C	56C		56C	56C	229	99	6.8		
15	1.76		56C	56C		56C	56C	214	93	6.4		
14	1.64	1.50	56C	56C		56C	56C	200	87	6.0		
13	1.52		56C	56C	1.50	56C	56C	185	80	5.5		
12	1.40		56C	56C		56C	56C	170	74	5.1		
11	1.29		56C	56C		56C	56C	154	67	4.6		
10	1.17	1.00	56C	56C		56C	56C	141	61	4.2		
9	1.05		56C	56C		56C	56C	127	55	3.8		
8	0.94	0.75	56C	56C	1.00	56C	56C	113	49	3.4		
7	0.82		56C	56C		56C	56C	98	42	2.9		
6	0.70		56C	56C	0.75	56C	56C	85	37	2.5		
5	0.59	0.50	56C	56C		56C	56C	71	31	2.1		
4	0.47		56C	56C	0.50	56C	56C	57	25	1.7		
3	0.35		56C	56C		56C	56C	43	19	1.3		
2	0.23		56C	56C		56C	56C	29	13	0.9		
1	0.12		56C	56C		56C	56C	14	6	0.4		

TECHNICAL DATA – PUMP HYDRAULICS / MOTOR SIZING

15SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
15	3.56	5.00	184TC	184TC	5.00	184TC	184TC	263	114	7.8	25 Bar (362 psi)	Class 250 / 300
14	3.32	3.00	56C	56C		184TC	184TC	245	106	7.3		
13	3.08		56C	56C		184TC	184TC	228	99	6.8		
12	2.84		56C	56C	3.00	56C	56C	210	91	6.3		
11	2.61		56C	56C		56C	56C	192	83	5.7		
10	2.37		56C	56C		56C	56C	175	76	5.2		
9	2.13	2.00	56C	56C		56C	56C	158	68	4.7		
8	1.90		56C	56C	2.00	56C	56C	140	61	4.2		
7	1.66	1.50	56C	56C		56C	56C	120	52	3.6		
6	1.42		56C	56C	1.50	56C	56C	103	45	3.1		
5	1.19	1.00	56C	56C		56C	56C	86	37	2.6		
4	0.95		56C	56C	1.00	56C	56C	68	29	2.0		
3	0.71	0.75	56C	56C	0.75	56C	56C	51	22	1.5		
2	0.47	0.50	56C	56C	0.50	56C	56C	35	15	1.0		
1	0.24		56C	56C		56C	56C	8	3	0.2		

22SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
12	3.58	5.00	184TC	184TC	5.00	184TC	184TC	220	95	6.6	25 Bar (362 psi)	Class 250 / 300
11	3.28	3.00	56C	56C		184TC	184TC	202	87	6.0		
10	2.98		56C	56C	3.00	56C	56C	183	79	5.5		
9	2.68		56C	56C		56C	56C	165	71	4.9		
8	2.38		56C	56C		56C	56C	147	64	4.4		
7	2.09	2.00	56C	56C		56C	56C	129	56	3.8		
6	1.79		56C	56C	2.00	56C	56C	110	48	3.3		
5	1.49	1.50	56C	56C	1.50	56C	56C	91	39	2.7		
4	1.19		56C	56C		56C	56C	74	32	2.2		
3	0.89	0.75	56C	56C	1.00	56C	56C	55	24	1.6		
2	0.60	0.50	56C	56C	0.75	56C	56C	36	16	1.1		
1	0.30		56C	56C	0.50	56C	56C	19	8	0.6		

TECHNICAL DATA – PUMP HYDRAULICS / MOTOR SIZING

33SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame							
			ODP	TEFC		ODP	TEFC						
10	7.0	7.5	184TC		7.5	184TC		278	120	8	25 Bar (362 psi)	Class 125 / 150	
10/1	6.8							271	117	8			
10/2	6.8							264	114	8			
9	6.3							250	108	7			
9/1	6.1							242	105	7			
9/2	6.1							235	102	7			
8	5.6	5						222	96	7			
8/1	5.4							214	93	6			
8/2	5.4							207	90	6			
7	4.9				5			195	84	6			
7/1	4.7							189	82	6			
7/2	4.7							181	78	5			
6	4.2							168	73	5			
6/1	4.0							160	69	5			
6/2	3.9							153	66	5			
5	3.5							139	60	4			
5/1	3.3	3						131	57	4			
5/2	3.2							124	54	4			
4	2.8				3			111	48	3			
4/1	2.6							103	45	3			
4/2	2.5							97	42	3			
3	2.1							83	36	2			
3/1	2.0							76	33	2			
3/2	1.8							70	30	2			
2	1.4							56	24	2			
2/1	1.2							48	21	1			
2/2	1.1							41	18	1			
1	0.7							28	12	1			

TECHNICAL DATA – PUMP HYDRAULICS / MOTOR SIZING

46SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame							
			ODP	TEFC		ODP	TEFC						
10/2	10.0	10	215TC	215TC	10	213TC	215TC	298	129	9	25 Bar (362 psi)	Class 125 / 150	
9	9.3							280	121	8			
9/1	9.0							274	119	8			
9/2	8.8							268	116	8			
8	8.2	7.5	184TC					249	108	7			
8/1	8.0							242	105	7			
8/2	7.8							236	102	7			
7	7.2				7.5	184TC		217	94	6			
7/1	7.0							212	92	6			
7/2	6.8							206	89	6			
6	6.2							189	82	6			
6/1	6.0							182	79	5			
6/2	5.8	5						174	75	5			
5	5.2							156	68	5			
5/1	5.0				5			150	65	4			
5/2	4.7							144	62	4			
4	4.1							125	54	4			
4/1	3.8							118	51	4			
4/2	3.7							113	49	3			
3	3.1	3			3			93	40	3			
3/1	2.9							87	38	3			
3/2	2.6							79	34	2			
2	2.0							63	27	2			
2/1	1.8							55	24	2			
2/2	1.6							49	21	1			
1	1.0							31	13	1			

66SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame							
			ODP	TEFC		ODP	TEFC						
6	9.0	10	215TC	215TC	10	213TC	215TC	211	91	6	25 Bar (362 psi)	Class 125 / 150	
6/1	8.6							203	88	6			
6/2	8.3	7.5	184TC					197	85	6			
5	7.5				7.5	184TC		175	76	5			
5/1	7.1							168	73	5			
5/2	6.9							162	70	5			
4	6.0							140	61	4			
4/1	5.6							134	58	4			
4/2	5.4	5						127	55	4			
3	4.5				5			106	46	3			
3/1	4.1							98	42	3			
3/2	3.9							92	40	3			
2	3.0	3			3			70	30	2			
2/1	2.6							64	28	2			
2/2	2.4							57	25	2			
1	1.5							36	15	1			

TECHNICAL DATA – PUMP HYDRAULICS / MOTOR SIZING

92SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame							
			ODP	TEFC		ODP	TEFC						
6	11.5	10	215TC	215TC	15	215TC	254TC	227	98	7	25 Bar (362 psi)	Class 125 / 150	
6/1	11.1							221	96	7			
6/2	10.7							215	93	6			
5	9.8				10	213TC	215TC	190	82	6			
5/1	9.7							184	80	5			
5/2	9.2							178	77	5			
4	7.7	7.5	184TC		7.5	184TC		153	66	5			
4/1	7.6							146	63	4			
4/2	7.1							140	61	4			
3	5.8							114	49	3			
3/1	5.6							107	46	3			
3/2	5.1	5						102	44	3			
2	3.9				5			76	33	2			
2/1	3.6							69	30	2			
2/2	3.1	3						64	28	2			
1	1.9				3			37	16	1			
1/1	1.6							31	14	1			

125SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
8/0C	16.47	15	215TC	254TC	20	254TC	256TC	257	111	7.7	25 Bar (362 psi)	Class 125 / 150
7/0C	14.22	15	215TC	254TC	15	215TC	254TC	225	97	6.7		
6/6A	11.4	10	213TC	215TC	15	215TC	254TC	179	78	5.3		
5/5A	9.5	10	213TC	215TC	10	213TC	215TC	150	65	4.5		
4/0C	8.23	7.5	184TC	184TC	10	213TC	215TC	128	55	3.8		
3/3A	5.70	5	182TC	184TC	7.5	184TC	184TC	89	39	2.7		
2/0C	4.36	5	182TC	184TC	5	182TC	184TC	66	29	2.0		

TECHNICAL DATA – WATER PROPERTY CHART

Temp °F	Temp °C	Specific Volume (Cubic ft/lb)	Specific Gravity			Weight (lb/cubic ft)	Vapor Pressure (psi Abs)
			@ 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 – NPSH

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.

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

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

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 (°F)	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 – COMPATABILITY CHART FOR MATERIALS IN CONTACT WITH MOST COMMONLY USED LIQUIDS

Liquid	Concentration (%)	Temperature Min/Max °F	Specific Weight (lb/in³)	SV 1, 3, 5, 10, 15, 22		SV 33, 46, 66, 92		Recommended Seal	Elastomers
				304	316	CI/316	316		
Water	100	23/248		•	•	•	•	Q_1BEGG	E
Deionized, demineralized or distilled water	100	-13/230		•	•	•	•	Q_1BEGG	E
Water and oil emulsion	any	23/194		•	•	•	•	Q_1BVGG	V
Acetic acid (•)	80	14/158	.038	•	•	•	•	Q_1BEGG	E
Citric acid	5	14/158	.056	•	•	•	•	Q_1BEGG	E
Hydrochloric acid	2	23/77	.043		•		•	Q_1Q_1VGG	V
Phosphoric acid	10	23/86	.048		•		•	Q_1BEGG	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_1BEGG	E
Tartaric acid	50	14/77	.063	•	•	•	•	Q_1Q_1VGG	V
Uric acid	80	14/176	.068	•	•	•	•	Q_1BEGG	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_1BEGG	E
Ethyl alcohol (•)	100	23/104	.029	•	•	•	•	Q_1BEGG	E
Methyl alcohol (•)	100	23/104	.029	•	•	•	•	Q_1BEGG	E
Propyl alcohol (•)	100	23/176	.029	•	•	•	•	Q_1BEGG	E
Butyl alcohol	100	23/176	.030	•	•	•	•	Q_1BVGG	V
Denatured alcohol (•)	100	23/158	.030	•	•	•	•	Q_1BEGG	E
Ammonia in water (•)	25	-4/122	.038	•	•	•	•	Q_1BEGG	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
Diesel oil (•)	100	32/176	.033	•	•	•	•	Q_1BVGG	V
Kerosene (•)	100	32/176		•	•	•	•	Q_1BVGG	V
Fuel oil (•)		32/194	.027	•	•	•	•	Q_1BVGG	V
Glycerine	100	68/194	.046	•	•	•	•	Q_1BEGG	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_1BEGG	E
Cutting fluid	100	23/230	.033	•	•	•	•	Q_1BVGG	V
Peanut oil (•)	100	23/230	.034	•	•	•	•	Q_1BEGG	E
Colza oil (•)	100	23/230	.034	•	•	•	•	Q_1BEGG	E
Linseed oil (•)	100	23/230	.034	•	•	•	•	Q_1BEGG	E
Coconut oil (•)	100	-4/194	.033	•	•	•	•	Q_1BEGG	E
Soybean oil (•)	100	32/194		•	•	•	•	Q_1BEGG	E
Diathermic oil	100	23/230	.033	•	•	•	•	Q_1BVGG	V
Hydraulic oil	100	23/230		•	•	•	•	Q_1BVGG	V
Mineral oil	100	23/230	.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_1BEGG	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.

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