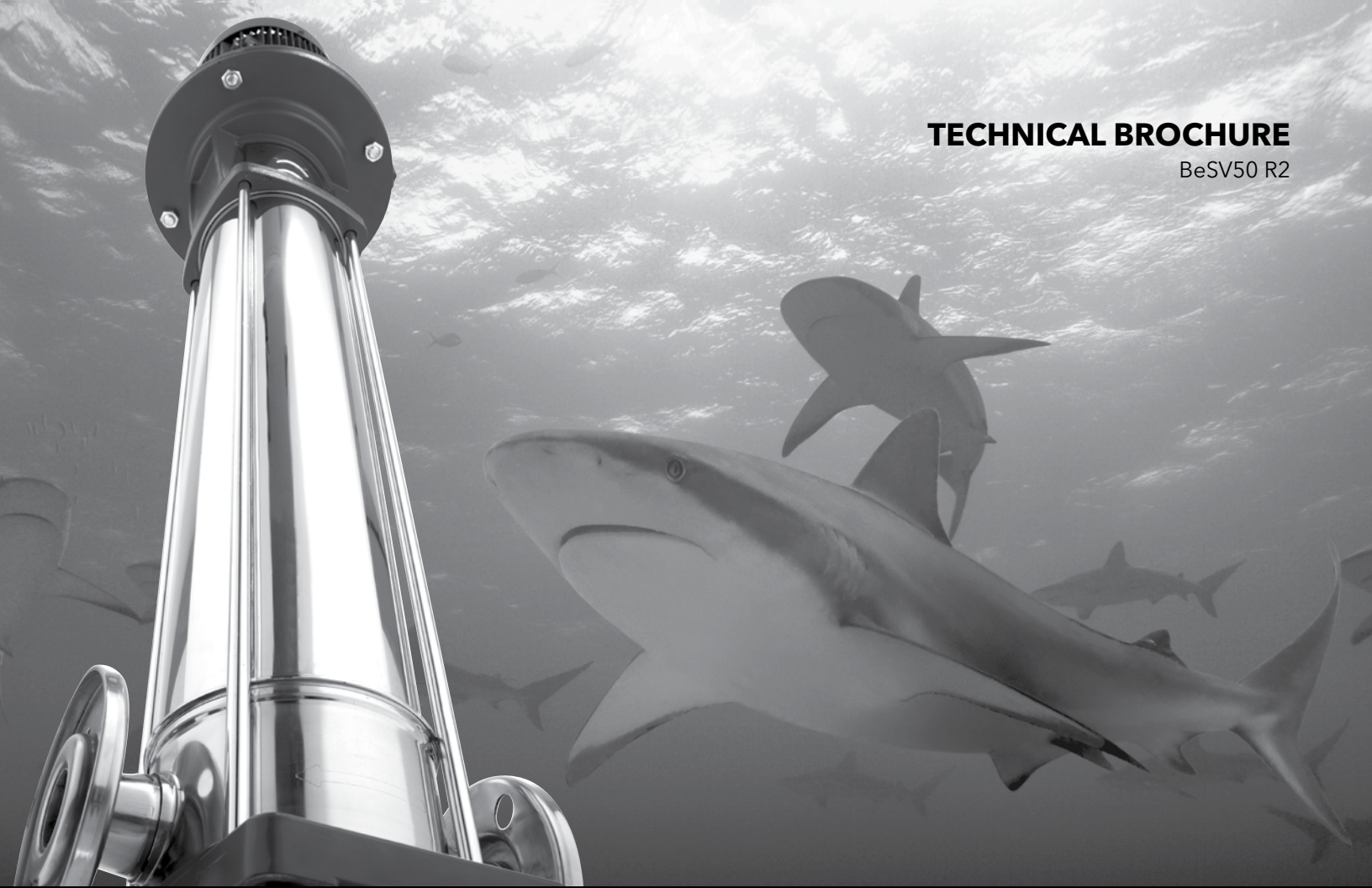




TECHNICAL BROCHURE

BeSV50 R2

e-SV™ 50 Hz Technical Manual

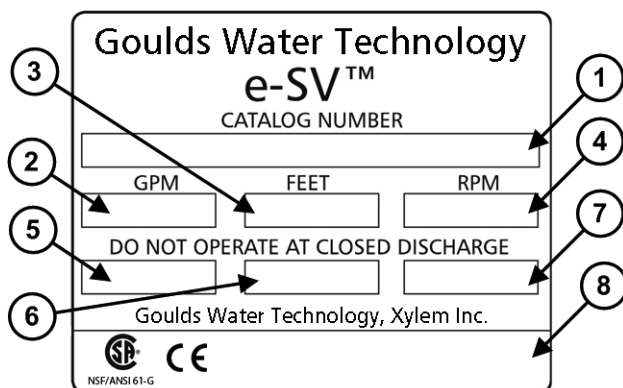
E-SV SERIES VERTICAL MULTI-STAGE PUMPS

 **GOULDS**
WATER TECHNOLOGY
a xylem brand

Contents

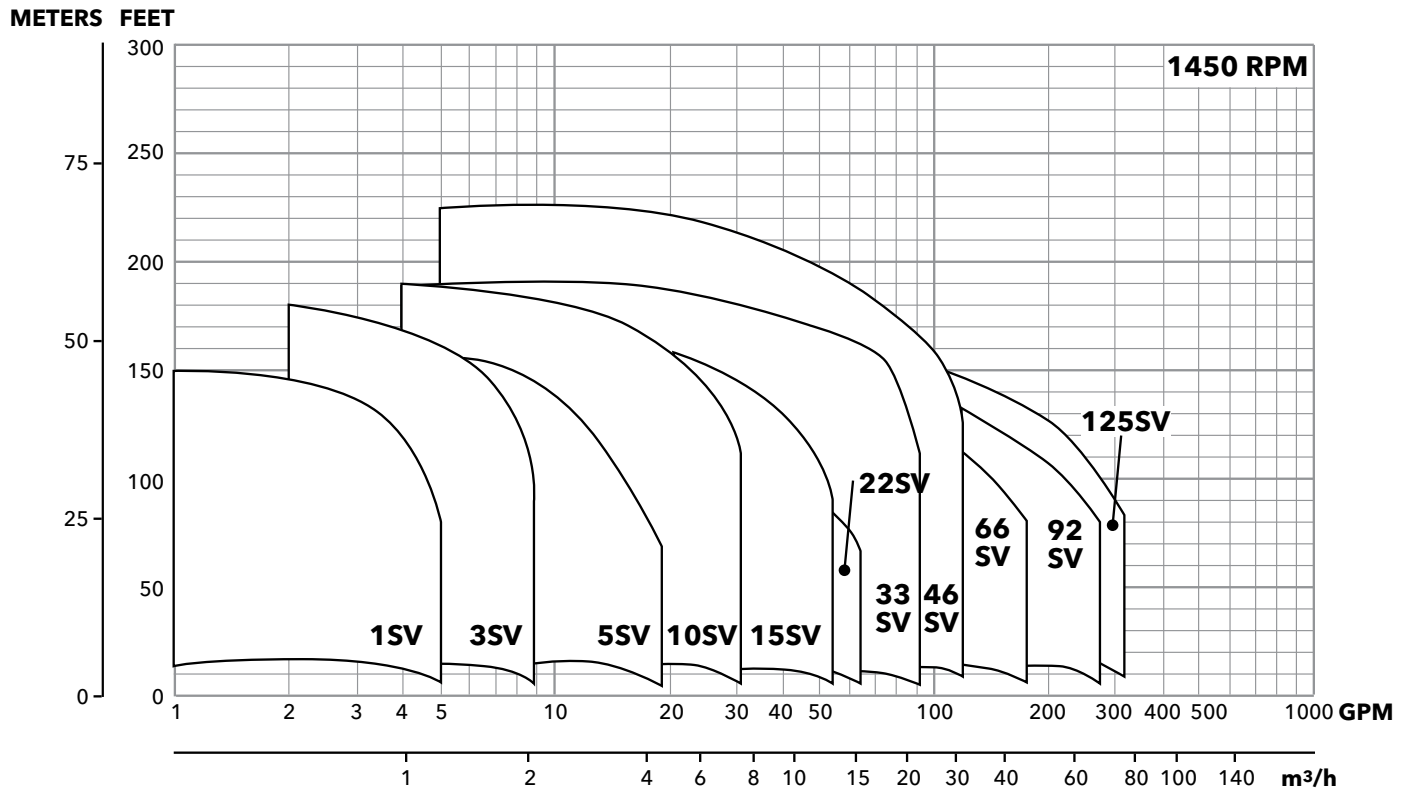
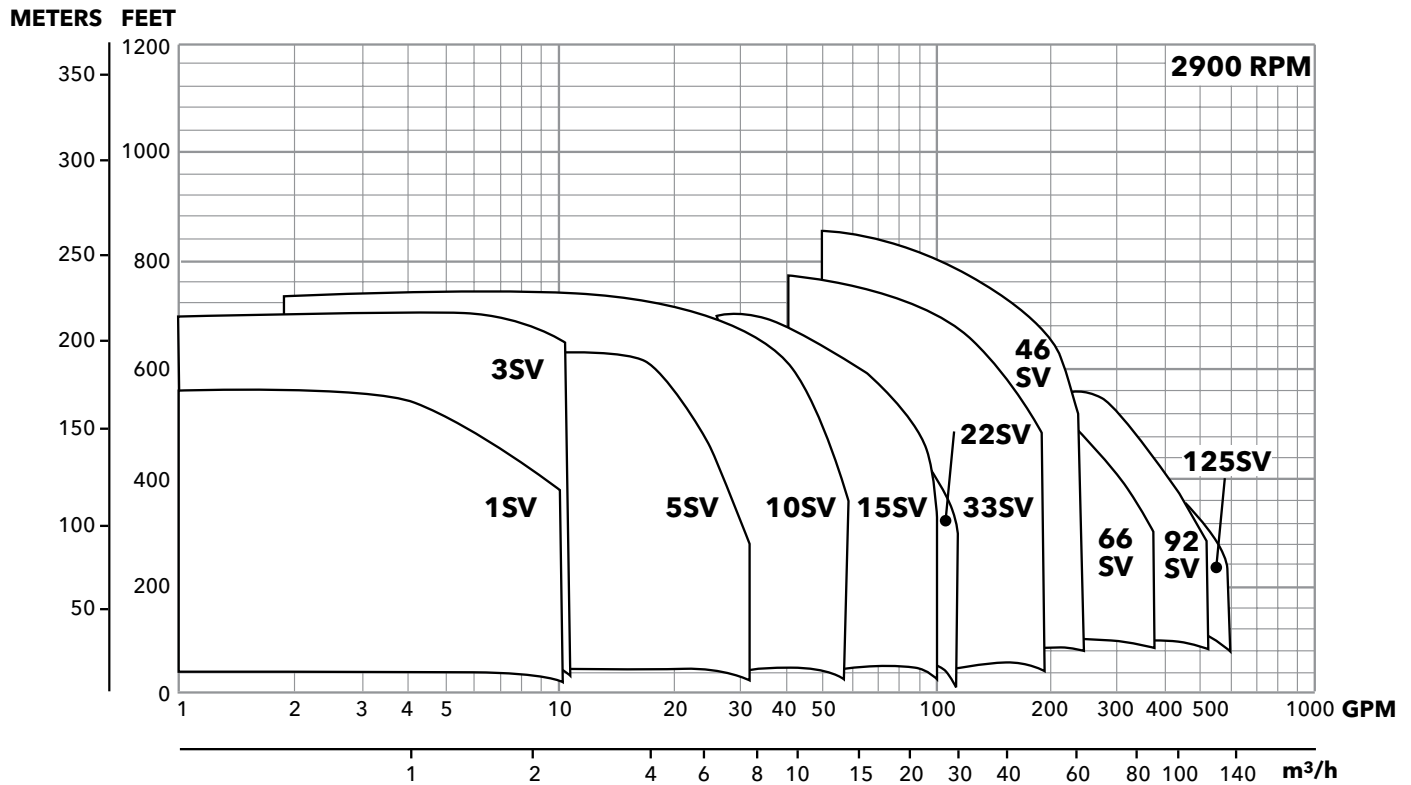
Coverage Curves.....	4
General Market Specifications	5
Characteristics of 1-125SV Series.....	6
Characteristics of 33-92SV Series.....	6
General Characteristics	7
Typical Applications of e-SV Pumps.....	8
e-SV Nomenclature.....	9-12
1-22SV Series Pump Cross Section and Major Components.....	13-14
33-92SV Series Pump Cross Section and Major Components.....	15-16
125SV Series Pump Cross Section and Major Components	17-18
e-SV Mechanical Seals	19
Maximum Allowable Working Pressure Charts	20
Maximum Inlet Pressure	21
Motor Data	21-23
2900 RPM Curves, Dimensions and Weights	24-45
1450 RPM Curves, Dimensions and Weights	46-67
Horizontal Mounting Options	68-71
Table of Hydraulic Performances at 2900 RPM.....	72-77
Table of Hydraulic Performances at 1450 RPM.....	78-83
Technical Appendix	84-86

e-SV Rating Plate



1	Goulds 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 160 m³/hr (700 GPM)
- Head: up to 250 m (850 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.
- 2900 RPM nominal
- Standard voltage:
 - Single phase version: 115-208/230 V, 50 Hz up to 2 HP or 208-230 V for 3 HP
 - Three phase version, 2 pole: 208-230/460 V, 50 Hz up to 60 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

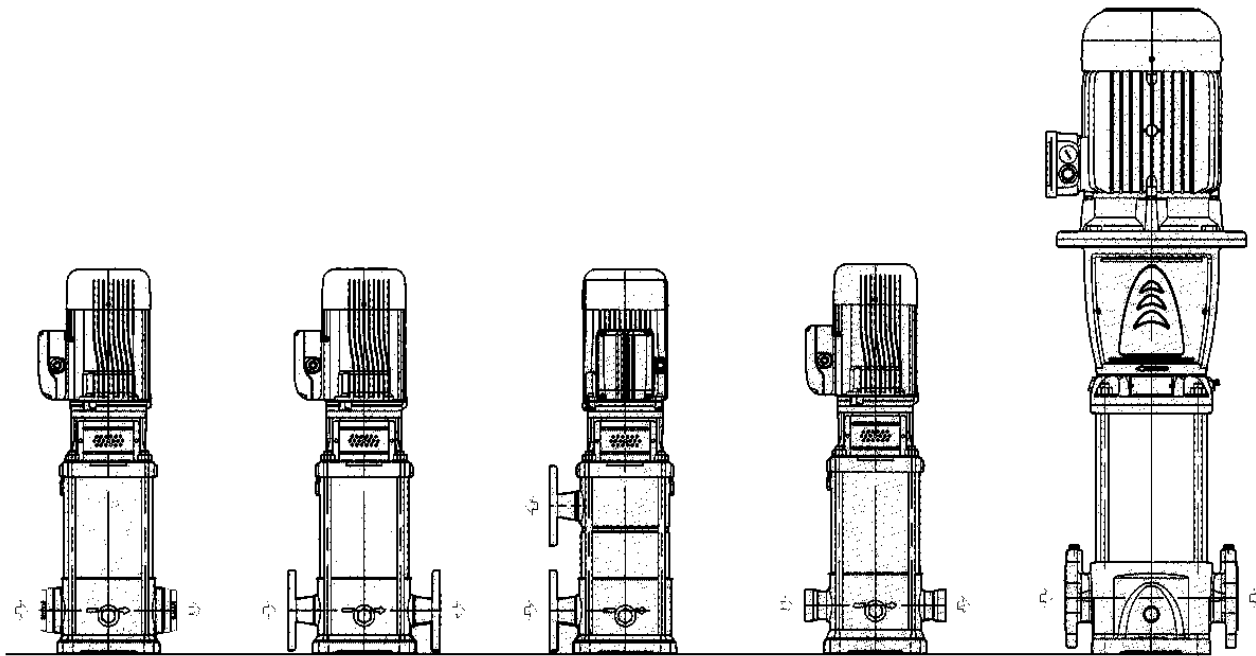
- Vertical multistage centrifugal pump with impellers, diffusers and outer sleeve made entirely of stainless steel, and with pump casing and motor adapter made of cast iron in the standard version
- Rotating components made entirely of AISI 316 stainless steel
- High heads and capacities five sizes: 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
- 1450 RPM, 4 pole motors
- Passivation

Commercial Water

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

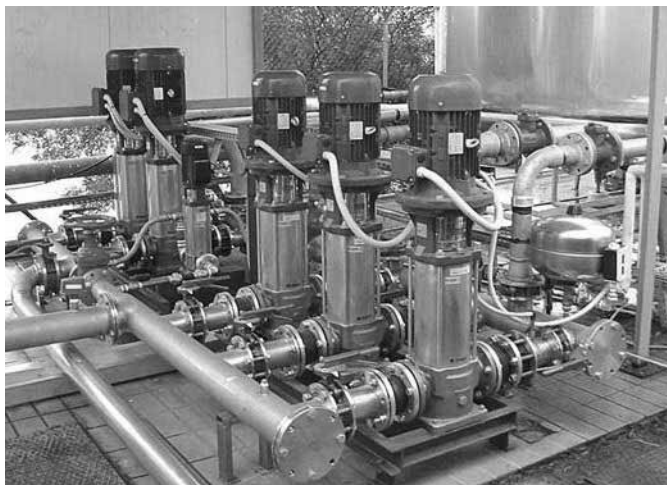
- Washing and cleaning plants (washing and degreasing of mechanical parts, car and truck wash tunnels, washing of electronic industry circuits)
- Commercial washers
- Fire fighting system pumps

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)

Top / Bottom

- R = (SVC) 12Suct-12Disch
- W = (SVC) 12Suct-03Disch
- X = (SVC) 12Suct-06Disch
- Y = (SVC) 12Suct-09Disch

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 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
Blank if 33-92SV

A = 141 mm

B = 136 mm

C = 145 mm (full dia.)

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
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 Press (250/300# pump body)

Seal Material

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

Motor Enclosure

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

Voltage

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

Pole-Hz-Phase

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

HP Rating

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

Configuration OPTION

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

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

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

Product Line:

SV - Stainless Vertical

Nominal Flow:

1 = 5 GPM
3 = 16 GPM
5 = 26 GPM
10 = 53 GPM
15 = 80 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)
G = Destaged - 2 stage (33 and 46 only)
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 (33, 46 and 66 only)
P = Passivation only
Z = High Press (250/300# pump body/Casing)

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)

Motor Enclosure

1 = ODP
2 = TEFC
3 = X-Proof
4 = WD - Tropical
5 = Prem-ODP
6 = Prem-TEFC
7 = Prem-XP
8 = Prem-WD

9 = Marine
A = Chem
B = Prem-Chem

Voltage

A = 115-230
B = 230
C = 230-460
D = 460
E = 575
F = 208-230/460
G = 200

H = 190/380
J = 115/208-230
K = 208
L = 208-230
M = 190/380/415
N = 380
P = 110/220

R = 220
S = 415
T = 220/380 WYE
U = 380-660 WYE
V = 208-230/460 WYE

Pole-Hz-Phase

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

HP Rating

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

Configuration

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

125SV ONLY

Reduced Trim Diameter
Blank if 33-92SV

A = 141 mm B = 136 mm C = 145 mm (full dia.)

Number of Reduced Trin Impeller

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

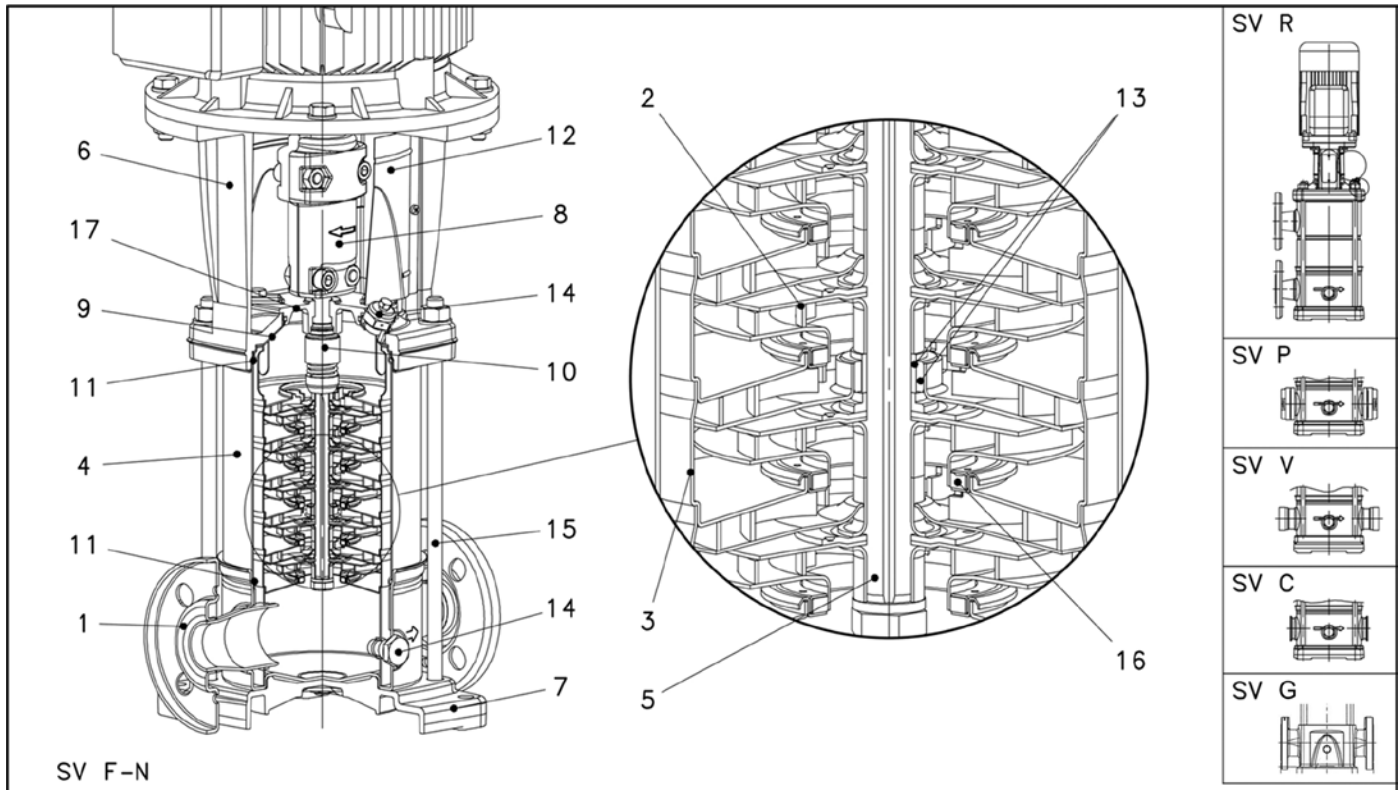
Product Line:

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

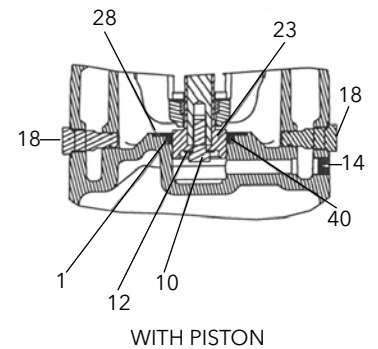
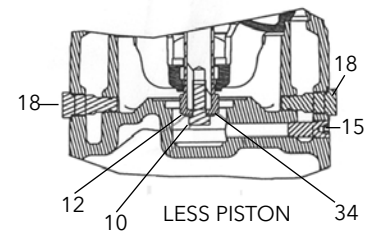
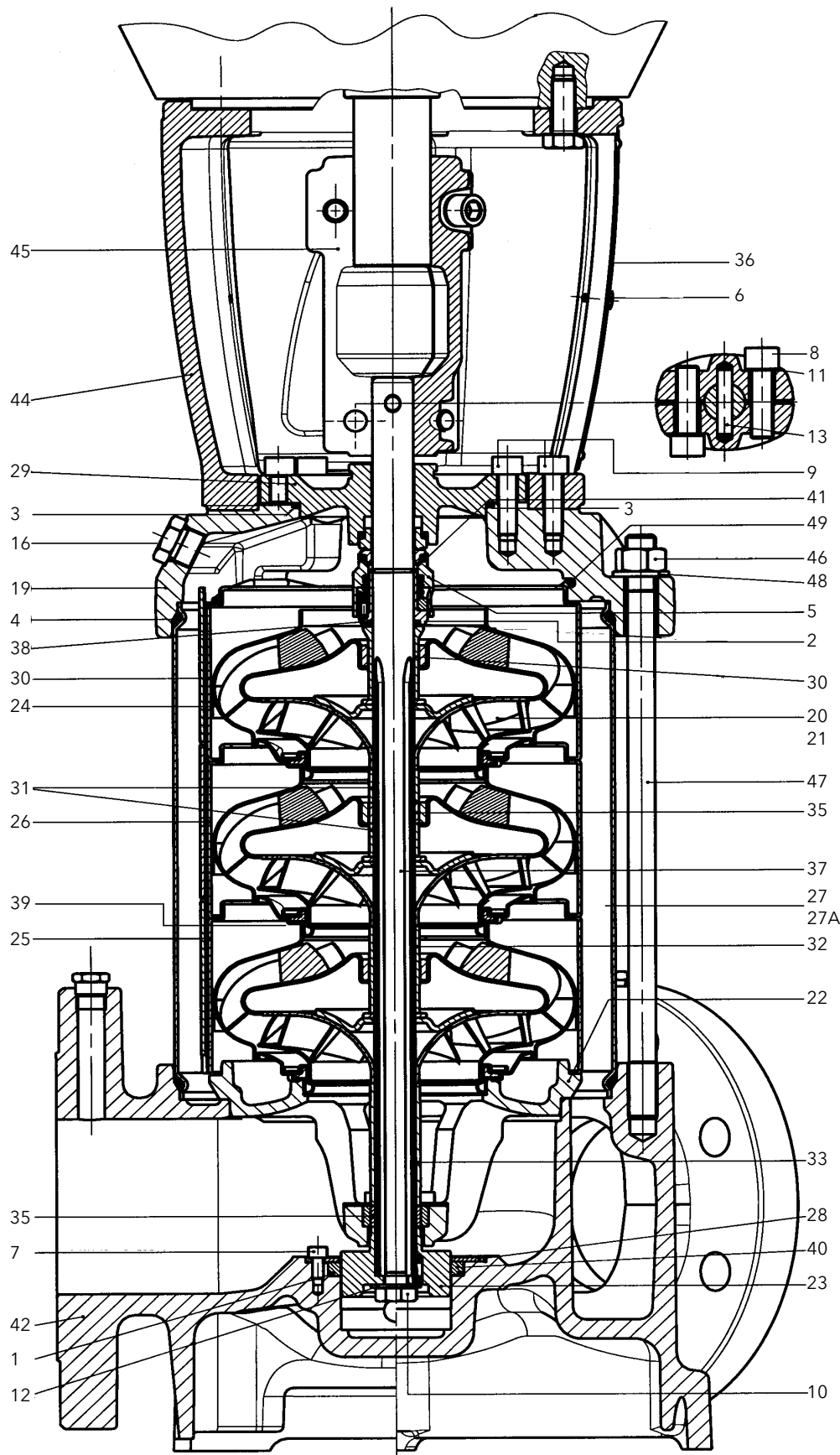
Ref. No.	Name	Material	Reference Standards	
			USA	Europe
1	Pump Body	Stainless Steel (F, P, R)	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
		Cast Iron (G)	ASTM Class 35/40B	EN 1561 GJL 250 (JL1040)
2	Impeller	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
3	Diffuser	Stainless Steel	AISI 304	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-AISI11Cu2(Fe) (AC46100)
		N/A (G)	N/A	N/A
8	Coupling	Aluminum	A384.0-F	EN 1706-AC-AISI11Cu2(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-AISI11Cu2(Fe) (AC46100)
8	Coupling	Aluminum	A384.0-F	EN 1706-AC-AISI11Cu2(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

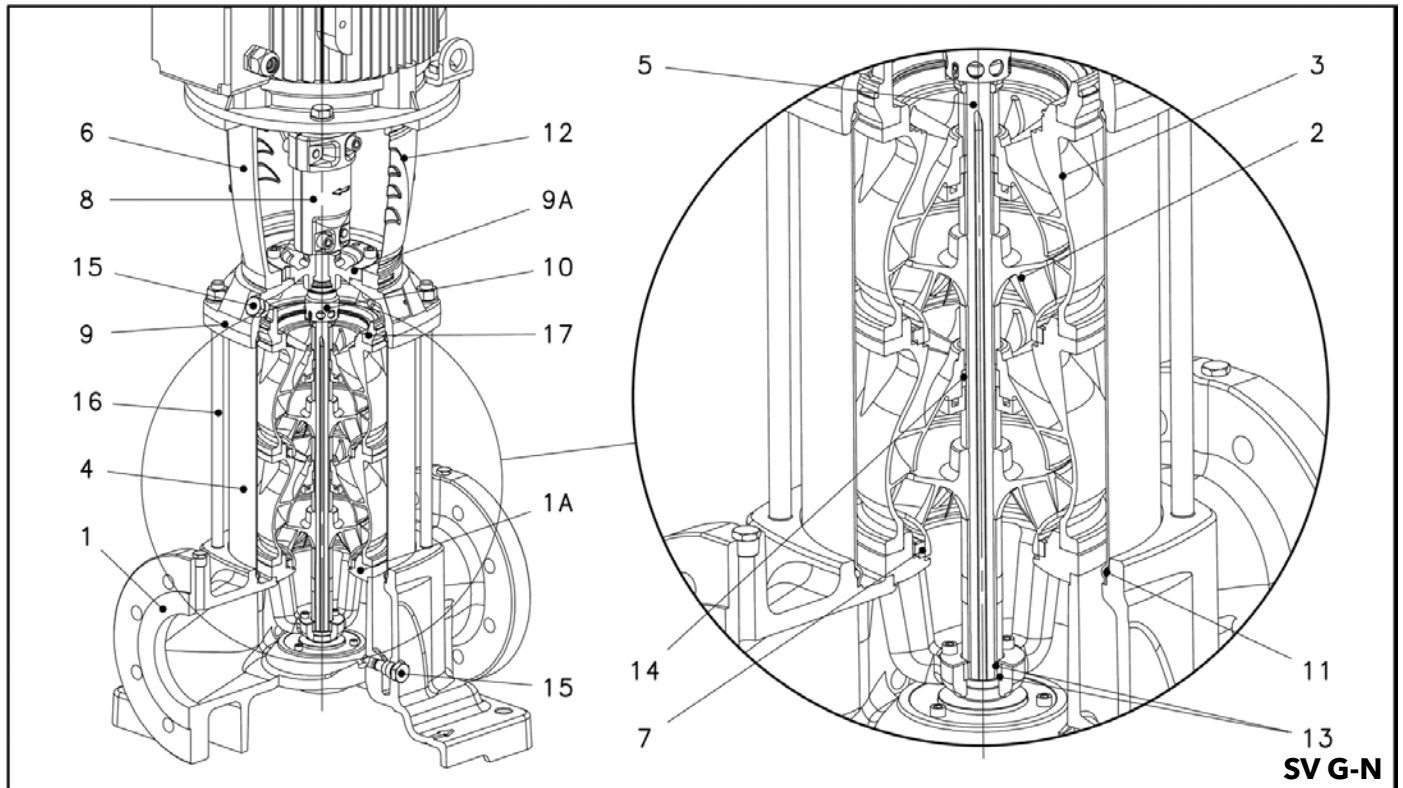
SV G-N



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 DetailSee 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

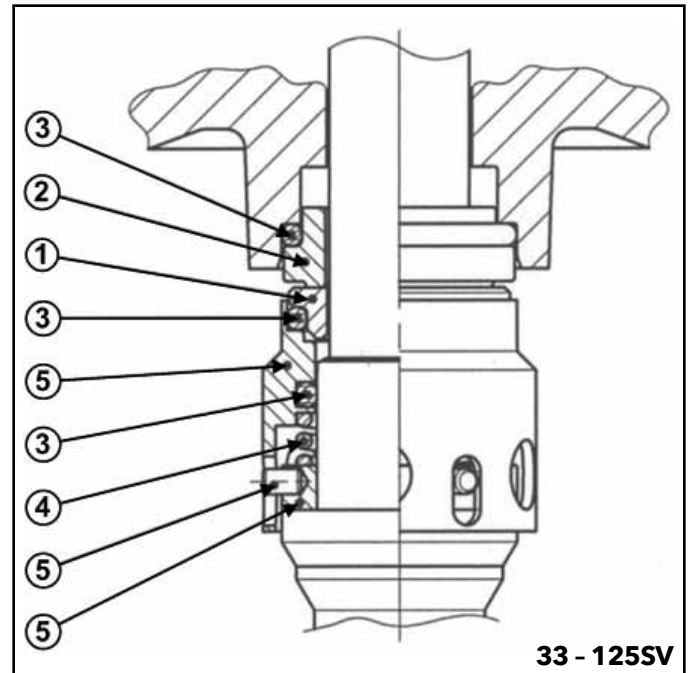
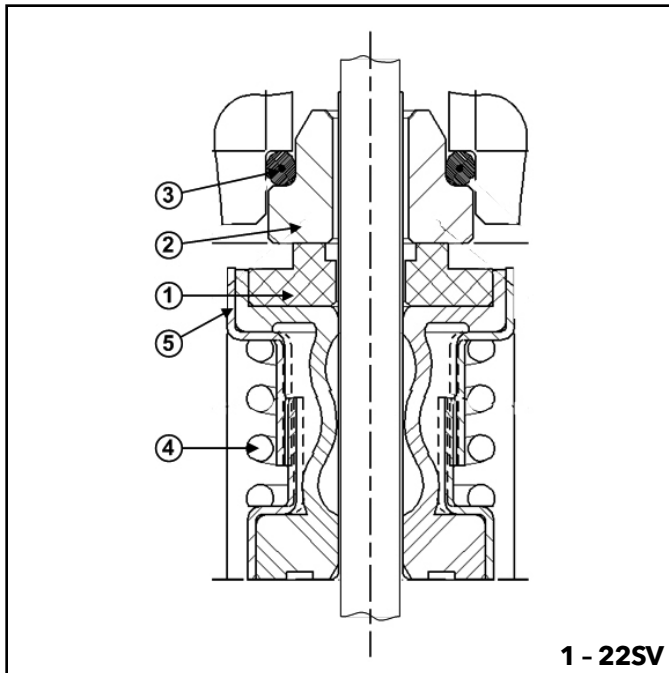
Ref. No.	Name	Material	Reference Standards	
			USA	Europe
1	Pump Body	Cast Iron	ASTM Class 35/40B	EN 1561-GJL-250 (JL1040)
2	Impeller	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
3	Diffuser	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
4	Casing	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (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-AISI11Cu2(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-AISI11Cu2(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)

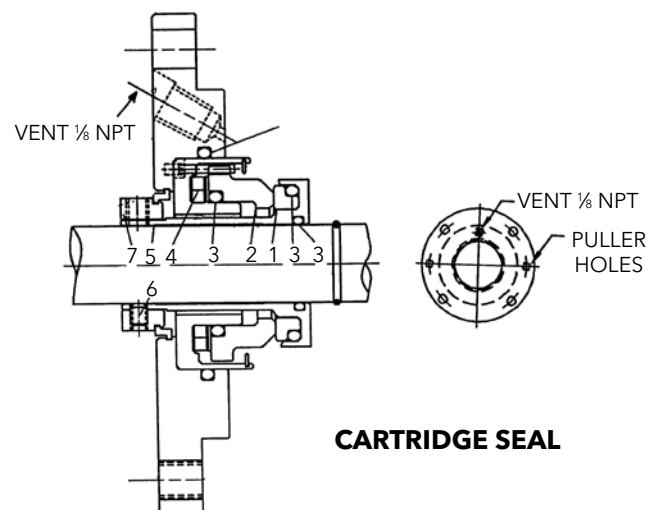
Commercial Water

e-SV Mechanical Seals



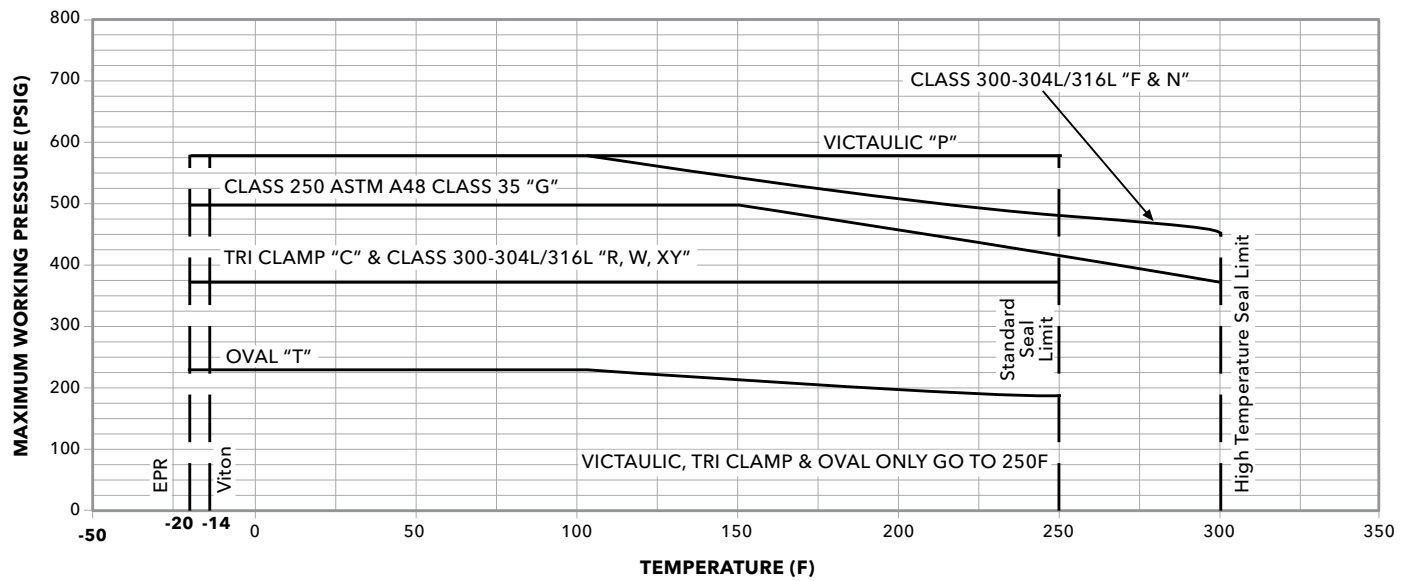
Pump	Code	Rotating Face 1	Stationary Face 2	Elastomers 3	Spring 4	Metal Components 5	Elastomer Temp Limits °F (°C)	Seal Temp Limits °F (°C)	Max. Working Pressure	Application
1SV thru 22SV	0	Carbon	Silicon Carbide Graphite Filled	Viton	316SS	316SS	-14 - 392°F (-10 - 200°C)	-22 - 250°F	580 psi (40 bar)	General Service
	2	Silicon Carbide Graphite Filled		EPR			-30 - 300°F (-34 - 150°C)			Severe Duty
	4									Severe Duty Boiler Feed
	6	Carbon		AFLAS			-14 - 392°F (-10 - 200°C)	up to 340°F (171°C)	255 psi (17.6 bar)	General Service Boiler Feed
	1	FDA Grade Carbon								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		EPR			-22 - 250°F (-30 - 120°C)			Severe Duty
	4									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		Carbon	Viton				
66SV		Silicon Carbide	EPR				
92SV		Silicon Carbide	EPR				

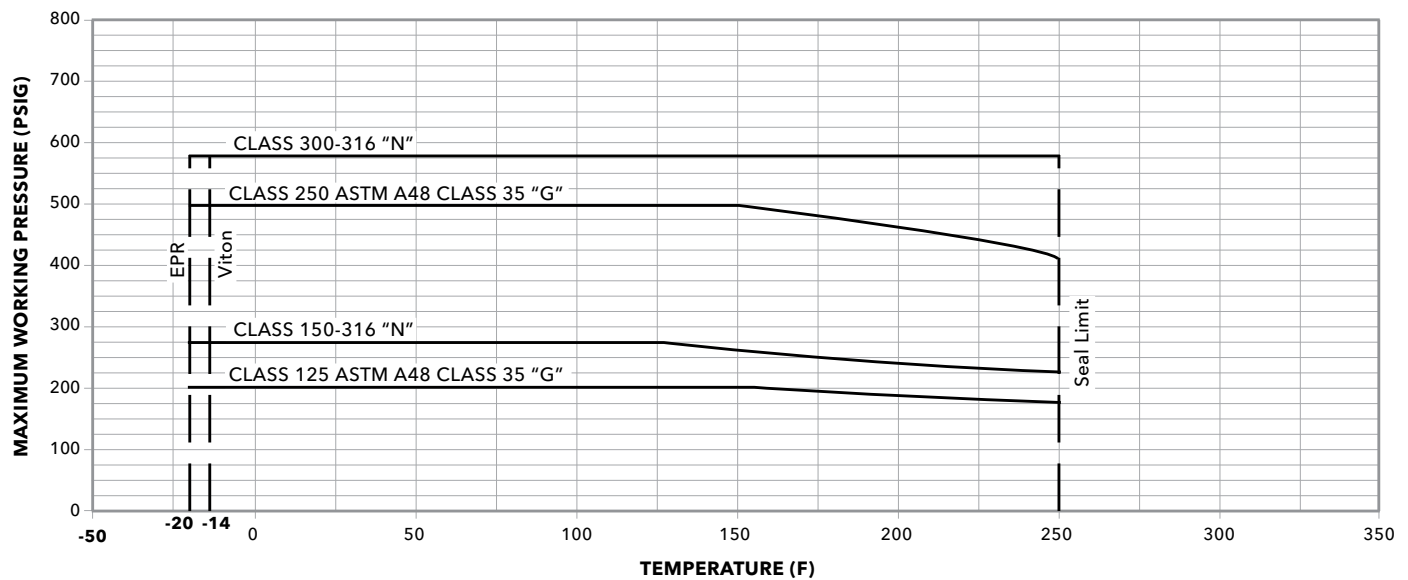


Maximum Allowable Working Pressure Charts

1SV-22SV

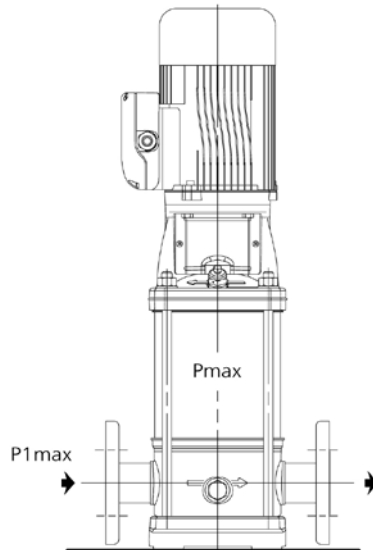


33SV-125SV



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.



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

Having the following meaning of the symbols:

$p_{\max}$ = Maximum pressure delivered by the pump

$p_{1\max}$ = 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 Pumps products.
- 6) Applicable to three phase motors only.

Motor Data

2900 RPM, 50Hz

HP	Phase	Enclosure	Voltage	SF	NEMA Frame	Speed / Pole	
						2900 / 2	1450 / 4
0.50	1	ODP	110/200	1.25	56C	V04A14K1BB3S	V04A14K1BB3S
		TEFC				V04A14K2BB3S	V04A14K2BB3S
	3	ODP	190/380-415			0V05741Z	V04A34U1BB3S
		TEFC				0V05742Z	V04A34U2BB3S
		TEPE				V04B32U5BB2S	V04A34U5BB3S
		ODPE				V04A34U4BB3S	V04A34U4BB3S
0.75	1	ODP	110/200			V05B12K1BB2S	V05B14K1BB2S
		TEFC				V05B12K2BB2S	V05B14K2BB2S
	3	ODP	190/380-415			0V06741Z	V05A34U1BB3S
		TEFC				0V06742Z	V05A34U2BB3S
		TEPE				V05B32U5BB2S	V05B34U5BB2S
		ODPE				V05B32U4BB2S	V05B34U4BB2S
1.00	1	ODP	110/200	V06B12K1BB2S		V06B14K1BB2S	
		TEFC		V06B12K2BB2S		V06B14K2BB2S	
	3	ODP	190/380-415	0V07741Z		V06A34U1BB2S	
		TEFC		0V07742Z		V06A34U2BB2S	
		ODPE		V06B32U4BB2S		V06B34U4BB2S	
		TEPE		V06B32U5BB2S		V06B34U5BB2S	
1.50	1	ODP	110/200	V07B12K1BB2S		V07B14K1BB2S	
		TEFC		0V08722Z		V07B14K2BB2S	
	3	ODP	190/380-415	0V08741Z		V07A34U1BB2S	
		TEFC		0V08742Z		V07A34U2BB2S	
		ODPE		V07B32U4BB2S		V07B34U4BB2S	
		TEPE		V07B32U5BB2S		V07B34U5BB2S	
2	1	ODP	110/200	V08B12K1BB2S	V08B14K1BD2S		
		TEFC		V08B12K2BB2S	V08B14K2BD2S		
	3	ODP	190/380-415	0V09741Z	V08A34U1BB2S		
		TEFC		0V09742Z	V08A34U2BB2S		
		ODPE		V08B32U4BB2S	V08B34U4BD2S		
		TEPE		V08B32U5BD2S	V08B34U5BD2S		
3	1	ODP	110/200	182TC	V09B12K1BD2S	V09B14K1BD2S	
		TEFC		V09B12K2BD2S	V09B14K2BD2S		
	3	ODP	190/380-415	184TC	0V10741ZA	V09A34U1BD2S	
		TEFC		0V10742ZA	V09A34U2BD2S		
		ODPE		182TC	V09B32U4BD2S	V09B34U4BD2S	
		TEPE		V09B32U5BD2S	V09B34U5BD2S		
5	1	ODP	110/200	184TC	V10B12N1BD2S	V10B14N1BD2S	
		TEFC		V10B12N2BD1S	V10B14N2BE2S		
	3	ODP	190/380-415	213TC	0V11741ZA	V10B34U1BE2S	
		TEFC		0V11742ZA	V10B34U2BE2S		
		ODPE		184TC	V10B32U4BD2S	V10B34U4BD2S	
		TEPE		V10B32U5BD2S	V10B34U5BD2S		
7.5	1	ODP	110/200	215TC	V11B12N1BE2S	V11A14K1BE2S	
		TEFC		184TC	V11B12N2BD2S	V11A14K2BD2S	
	3	ODP	190/380-415	213TC	0V12741Z	V11A34U1BE2S	
		TEFC		0V12742Z	V11A34U2BE2S		
		ODPE		V11B32U4BE2S	V11B34U4BE2S		
		TEPE		215TC	V11B32U5BE2S	V11B34U5BE2S	

Commercial Water

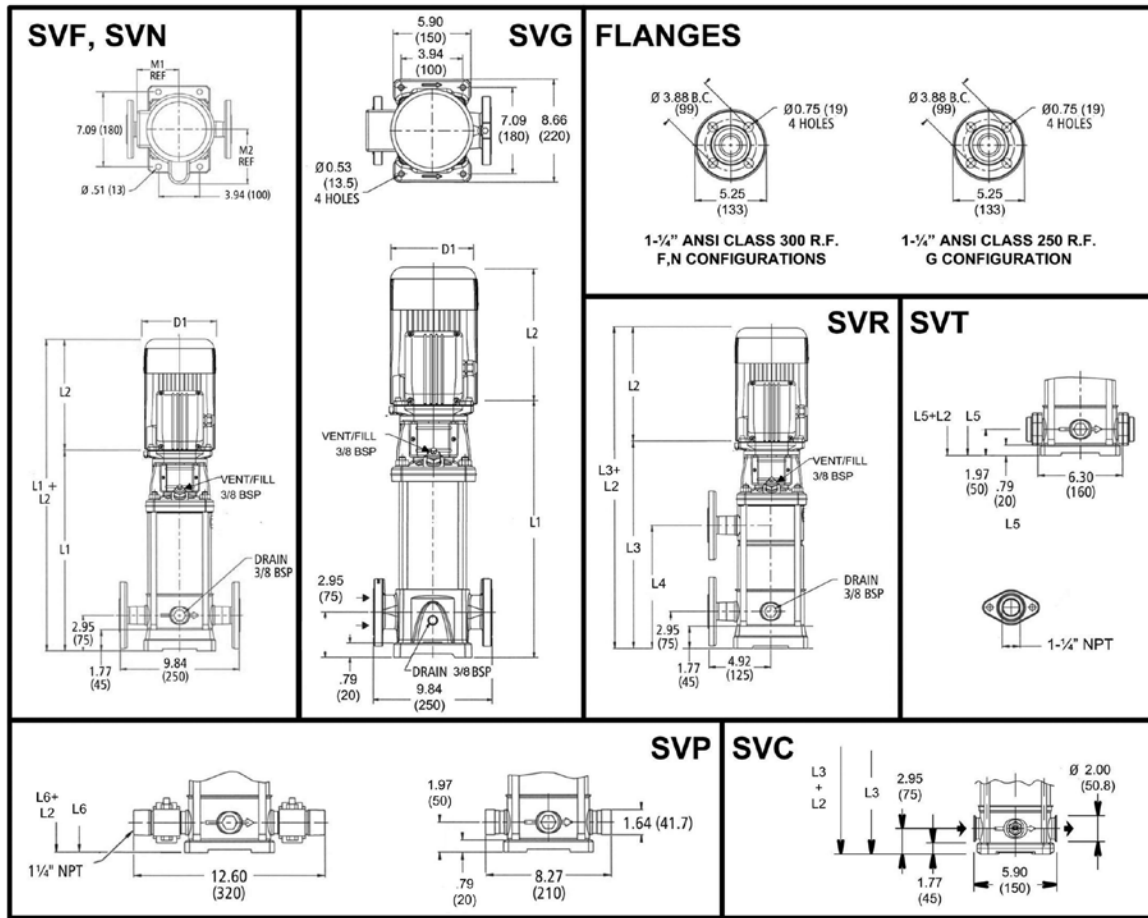
Motor Data

2900 RPM, 50Hz

HP	Phase	Enclosure	Voltage	SF	NEMA Frame	Speed / Pole	
						2900 / 2	1450 / 4
10	3	ODP	190/380-415	1.15	254TC	0V13741Z	V12B34U1BK2S
		TEFC			254TC	0V13742Z	V12B34U2BK2S
		ODPE			215TC	V12B32U4BE2S	V12B34U4BE2S
		TEPE			215TC	V12B32U5BK2S	V12B34U5BE2S
15	3	ODP			256TC	0V14741Z	V13B34U1BK2S
		TEFC			256TC	0V14742Z	V13B34U2BK2S
		ODPE			215TC	V13B32U4BE2S	V13B34U4BK2S
		TEPE			254TC	V13B32U5BK2S	V13B34U5BK2S
20	3	ODP			284TC	0V15741Z	V14B34U1BL2S
		TEFC			284TC	0V15742Z	V14B34U2BL2S
		ODPE			256TC	V14B32U4BK2S	V14B34U4BK2S
		TEPE			256TC	V14B32U5BK2S	V14B34U5BK2S
25	3	ODP			286TC	0V16741Z	V15B34U1BL2S
		TEFC			286TC	0V16742Z	V15B34U2BL2S
		ODPE			256TC	V15B32U4BK2S	V15B34U4BL2S
		TEPE			284TC	V15B32U5BL2S	V15B34U5BL2S
30	3	ODP			286TC	0V17741Z	V16B34U1BL2S
		TEFC			286TC	0V17742Z	V16B34U2BL2S
		ODPE			286TC	V16B32U4BL2S	V16B34U4BL2S
		TEPE			286TC	V16B32U5BL2S	V16B34U5BL2S
40	3	ODP			324TSC	0V18741SZ	V17B34U1BM2S
		TEFC			324TSC	0V18742SZ	V17B34U2BM2S
		ODPE			286TC	V17B32U4BL2S	V17B34U4BM2S
		TEPE			324TSC	X17B32U5BM2S	V17B34U5BM2S
50	3	ODP			324TSC	X18A34U1BM2S	V18B34U1BM2S
		TEFC			324TSC	0V19742SZ	V18B34U2BM2S
		ODPE			324TSC	X18B32U4BM2S	V18B34U4BM2S
		TEPE			326TSC	X18B32U5BM2S	V18B34U5BM2S
60	3	ODP			324TSC	X19A34U1BM2S	V19B34U1BP2S
		TEFC			324TSC	0V20742SZ	V19B34U2BP2S
		ODPE			326TSC	X18B32U4BM2S	V19B34U4BP2S
		TEPE			364TSC	X18B32U5BP2S	V19B34U5BP2S

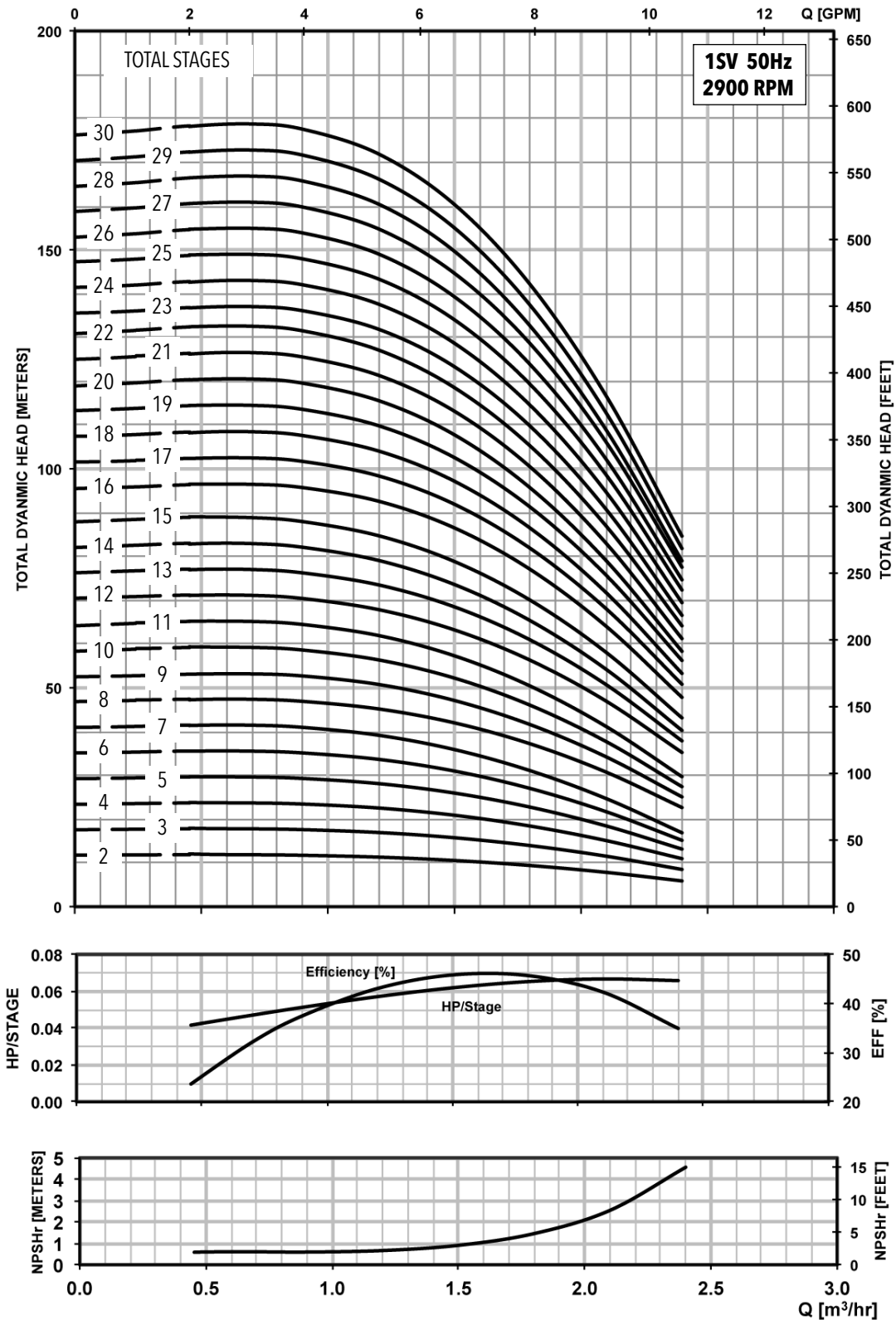
NOTE: Motors are suitable for Hydrovar® Variable Speed Drive.

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

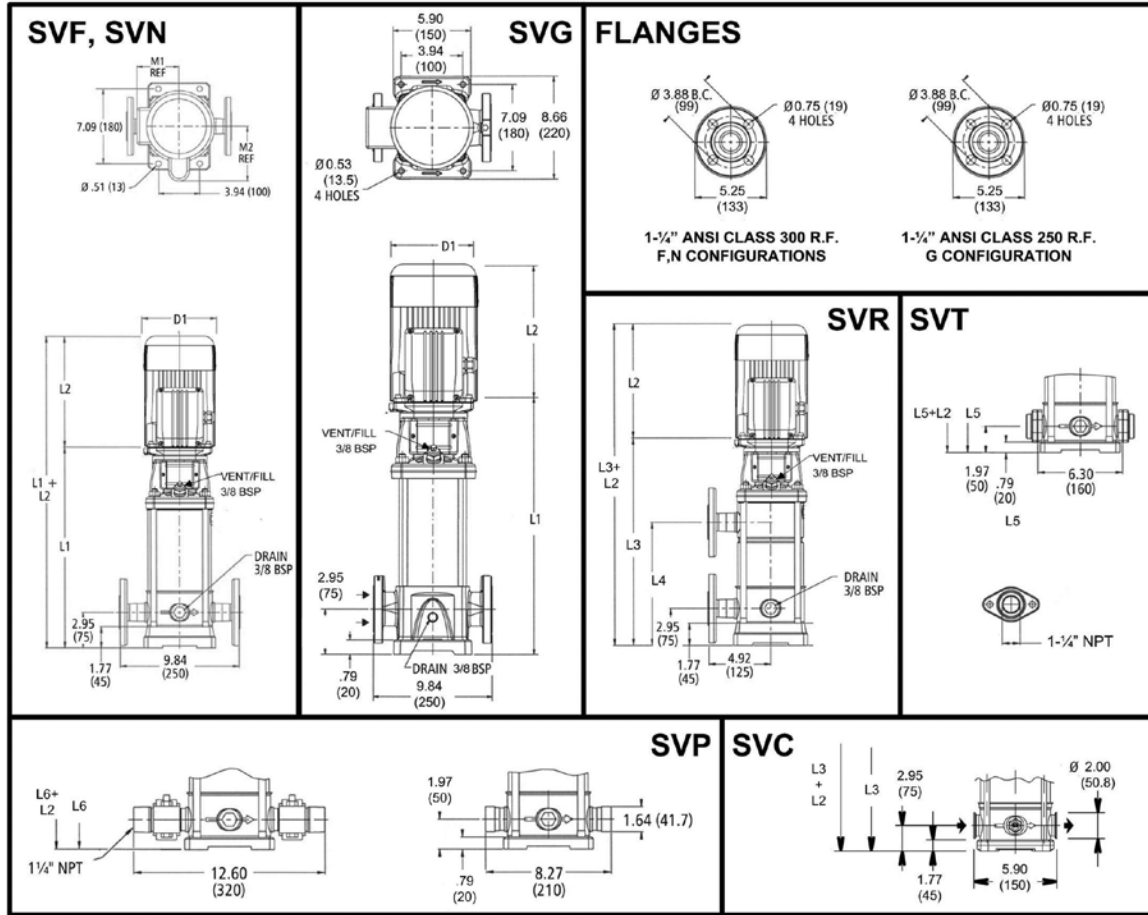


All dimensions are in inches (mm).

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 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30						ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30		
1SV-02	0.5	56C	13.27	10.79	9.91	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	25	27	29	21	21	52	54	46	46					
1SV-03			13.27	10.79	9.91	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	26	27	29	21	21	53	55	47	47					
1SV-04			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	27	27	29	21	21	54	56	48	48					
1SV-05			14.85	10.79	9.91	9.16	9.29	-	-	13.86	13.86	5.19	6.19	6.19	6.19	6.19	4.13	28	27	29	21	21	55	57	49	49					
1SV-06			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	0.75		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			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			19.57	10.66	11.19	9.16	9.29	19.57	11.30	18.59	18.59	5.74	6.19	7.19	6.19	6.19	4.13	33	32	40	23	23	65	73	56	56					
1SV-12			20.36	10.66	11.19	9.16	9.29	20.36	12.09	19.37	19.37	5.74	6.19	7.19	6.19	6.19	4.13	34	32	40	23	23	66	74	57	57					
1SV-13			21.14	10.66	11.19	9.16	9.29	21.14	12.87	20.16	20.16	5.74	6.19	7.19	6.19	6.19	4.13	35	32	40	23	23	67	75	58	58					
1SV-14	1		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			23.51	10.67	11.19	10.66	9.91	23.51	15.24	22.52	22.52	5.74	6.19	7.19	6.19	6.19	4.72	38	32	40	30	28	70	78	68	66					
1SV-17			24.29	10.67	11.19	10.66	9.91	24.29	16.02	23.31	23.31	5.74	6.19	7.19	6.19	6.19	4.72	38	32	40	30	28	70	78	68	66					
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	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	1.5		26.66	11.18	12.06	11.16	10.79	26.66	18.39	25.67	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			27.44	11.18	12.06	11.16	10.79	27.44	19.17	26.46	26.46	5.74	7.19	7.19	6.19	6.19	4.72	42	43	51	32	33	85	93	74	75					
1SV-22			28.23	11.18	12.06	11.16	10.79	28.23	19.96	27.25	27.25	5.74	7.19	7.19	6.19	6.19	4.72	43	43	51	32	33	86	94	75	76					
1SV-23			29.02	11.18	12.06	11.16	10.79	29.02	20.75	28.03	28.03	5.74	7.19	7.19	6.19	6.19	4.72	45	43	51	32	33	88	96	77	78					
1SV-24			29.81	11.18	12.06	11.16	10.79	29.81	21.54	28.82	28.82	5.74	7.19	7.19	6.19	6.19	4.72	46	43	51	32	33	89	97	78	79					
1SV-25			30.59	11.18	12.06	11.16	10.79	30.59	22.32	29.61	29.61	5.74	7.19	7.19	6.19	6.19	4.72	47	43	51	32	33	90	98	79	80					
1SV-26	2		31.38	11.18	12.06	11.16	10.79	31.38	23.11	30.40	30.40	5.74	7.19	7.19	6.19	6.19	4.72	47	43	51	32	33	90	98	79	80					
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	34.53	26.26	-	33.55	5.75	6.50	7.19	7.16	7.19	5.51	51	49	64	41	44	100	115	92	95					



MINIMUM FLOW RATE: 0.5 m³/hr [2 GPM]

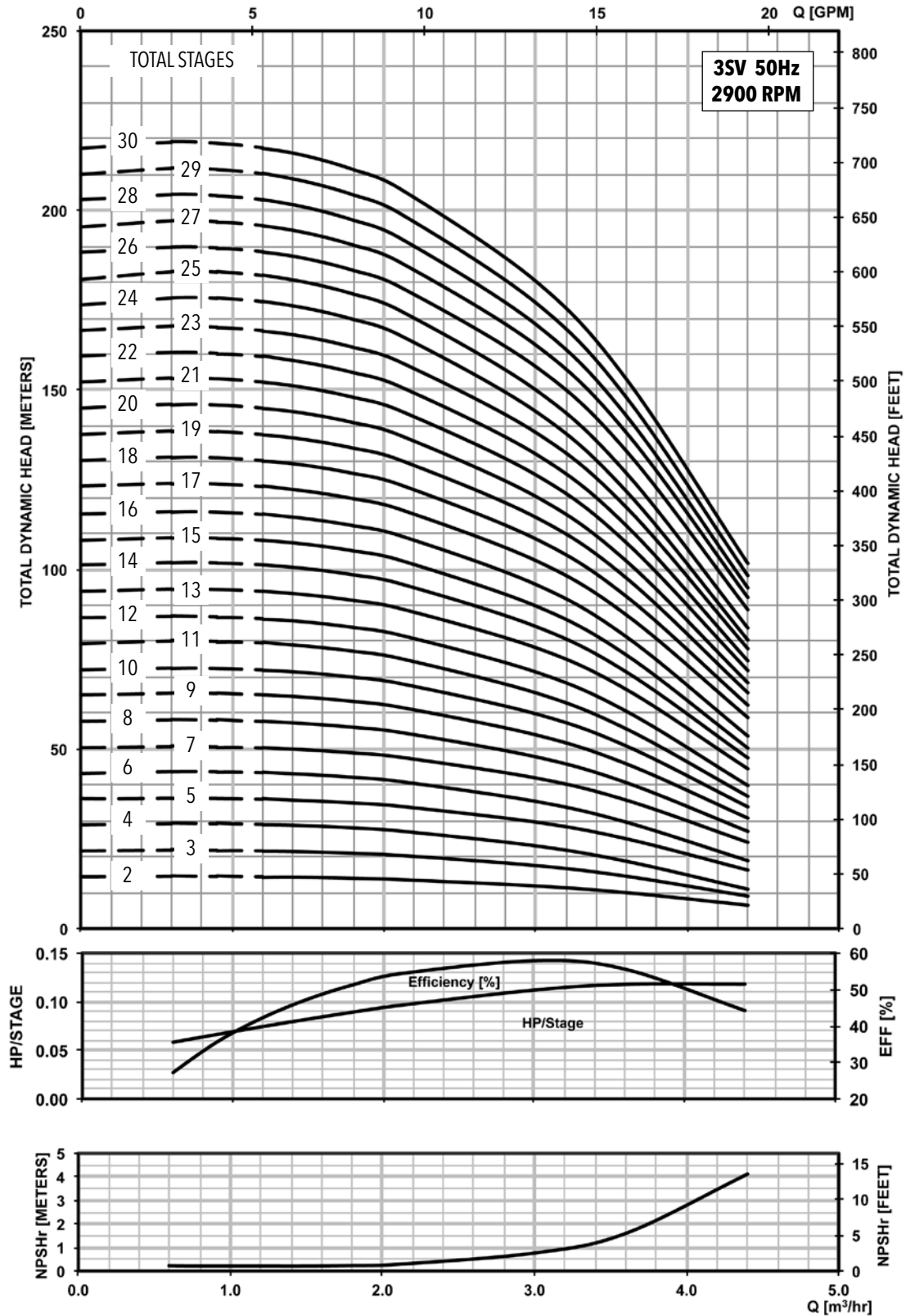


Pump Type Stages	Motor					Dimensions (in)														Weight (lbs.)									
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30						ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30
3SV-02	0.5	56C				13.27	10.79	9.91	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	24	27	29	21	21	51	53	45	45
3SV-03						13.27	10.79	9.91	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	25	27	29	21	21	52	54	46	46
3SV-04						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						14.85	10.79	9.91	9.16	9.29	-	-	13.86	13.86	5.19	6.19	6.19	6.19	6.19	4.13	27	27	29	21	21	54	56	48	48
3SV-06	0.75					15.63	10.66	11.19	9.16	9.29	-	-	14.65	14.65	5.74	6.19	7.19	6.19	6.19	4.13	28	32	40	23	23	60	68	51	51
3SV-07						16.42	10.66	11.19	9.16	9.29	-	-	15.44	15.44	5.74	6.19	7.19	6.19	6.19	4.13	30	32	40	23	23	62	70	53	53
3SV-08						17.21	10.66	11.19	9.16	9.29	17.21	8.94	16.22	16.22	5.74	6.19	7.19	6.19	6.19	4.13	31	32	40	23	23	63	71	54	54
3SV-09						18.00	10.67	11.19	10.66	9.91	18.00	9.72	17.01	17.01	5.74	6.19	7.19	6.19	6.19	4.72	32	32	40	30	28	64	72	62	60
3SV-10	1					18.78	10.67	11.19	10.66	9.91	18.78	10.51	17.80	17.80	5.74	6.19	7.19	6.19	6.19	4.72	33	32	40	30	28	65	73	63	61
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						20.36	11.18	12.06	11.16	10.79	20.36	12.09	19.37	19.37	5.74	7.19	7.19	6.19	6.19	4.72	35	43	51	32	33	78	86	67	68
3SV-13			1.5				21.14	11.18	12.06	11.16	10.79	21.14	12.87	20.16	20.16	5.74	7.19	7.19	6.19	6.19	4.72	36	43	51	32	33	79	87	68
3SV-14						21.93	11.18	12.06	11.16	10.79	21.93	13.66	20.95	20.95	5.74	7.19	7.19	6.19	6.19	4.72	37	43	51	32	33	80	88	69	70
3SV-15						22.72	11.18	12.06	11.16	10.79	22.72	14.45	21.74	21.74	5.74	7.19	7.19	6.19	6.19	4.72	38	43	51	32	33	81	89	70	71
3SV-16						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	39	43	51	32	33	82	90	71	72
3SV-17	2					24.29	11.57	13.44	11.18	11.16	24.29	16.02	23.31	23.31	5.75	6.50	7.19	7.16	7.19	5.51	40	49	64	41	44	89	104	81	84
3SV-18						25.08	11.57	13.44	11.18	11.16	25.08	16.81	24.10	24.10	5.75	6.50	7.19	7.16	7.19	5.51	41	49	64	41	44	90	105	82	85
3SV-19						25.87	11.57	13.44	11.18	11.16	25.87	17.60	24.89	24.89	5.75	6.50	7.19	7.16	7.19	5.51	41	49	64	41	44	90	105	82	85
3SV-20					26.66	11.57	13.44	11.18	11.16	26.66	18.39	25.67	25.67	5.75	6.50	7.19	7.16	7.19	5.51	42	49	64	41	44	91	106	83	86	
3SV-21	3	184TC	182TC	184TC		27.44	11.57	13.44	11.18	11.16	27.44	19.17	26.46	26.46	5.75	6.50	7.19	7.16	7.19	5.51	43	49	64	41	44	92	107	84	87
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	30.51	21.54	-	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	31.29	22.32	-	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	32.08	23.11	-	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	32.47	23.90	-	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						33.26	13.93	15.43	12.55	13.93	33.26	24.68	-	32.28	6.87	8.88	8.86	9.02	8.86	5.51	53	81	92	62	69	134	145	115	122
3SV-29						34.44	13.93	15.43	12.55	13.93	34.44	25.47	-	33.46	6.87	8.88	8.86	9.02	8.86	5.51	54	81	92	62	69	135	146	116	123
3SV-30						35.23	13.93	15.43	12.55	13.93	35.23	26.26	-	34.25	6.87	8.88	8.86	9.02	8.86	5.51	55	81	92	62	69	136	147	117	124

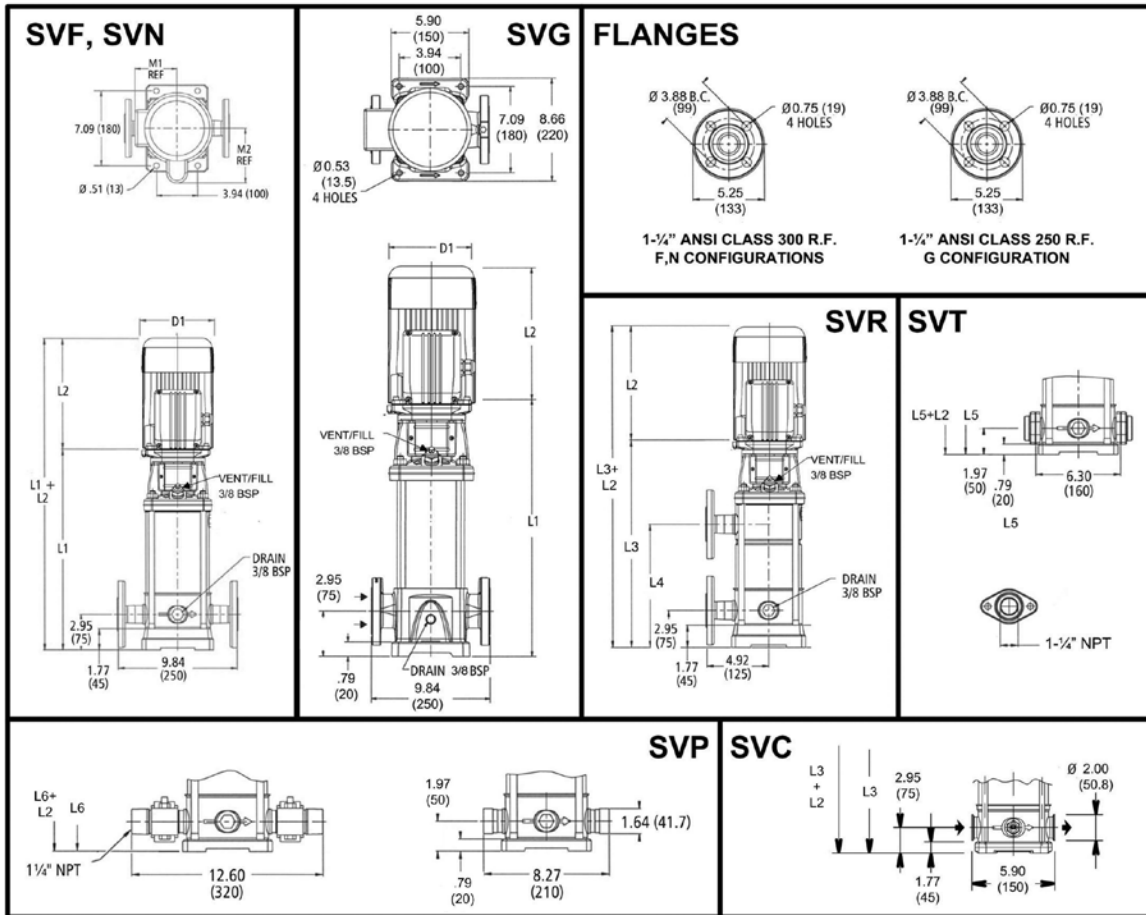
Performance Curve

3SV 2900 RPM

50 Hz



MINIMUM FLOW RATE: 0.7 m³/hr [3 GPM]



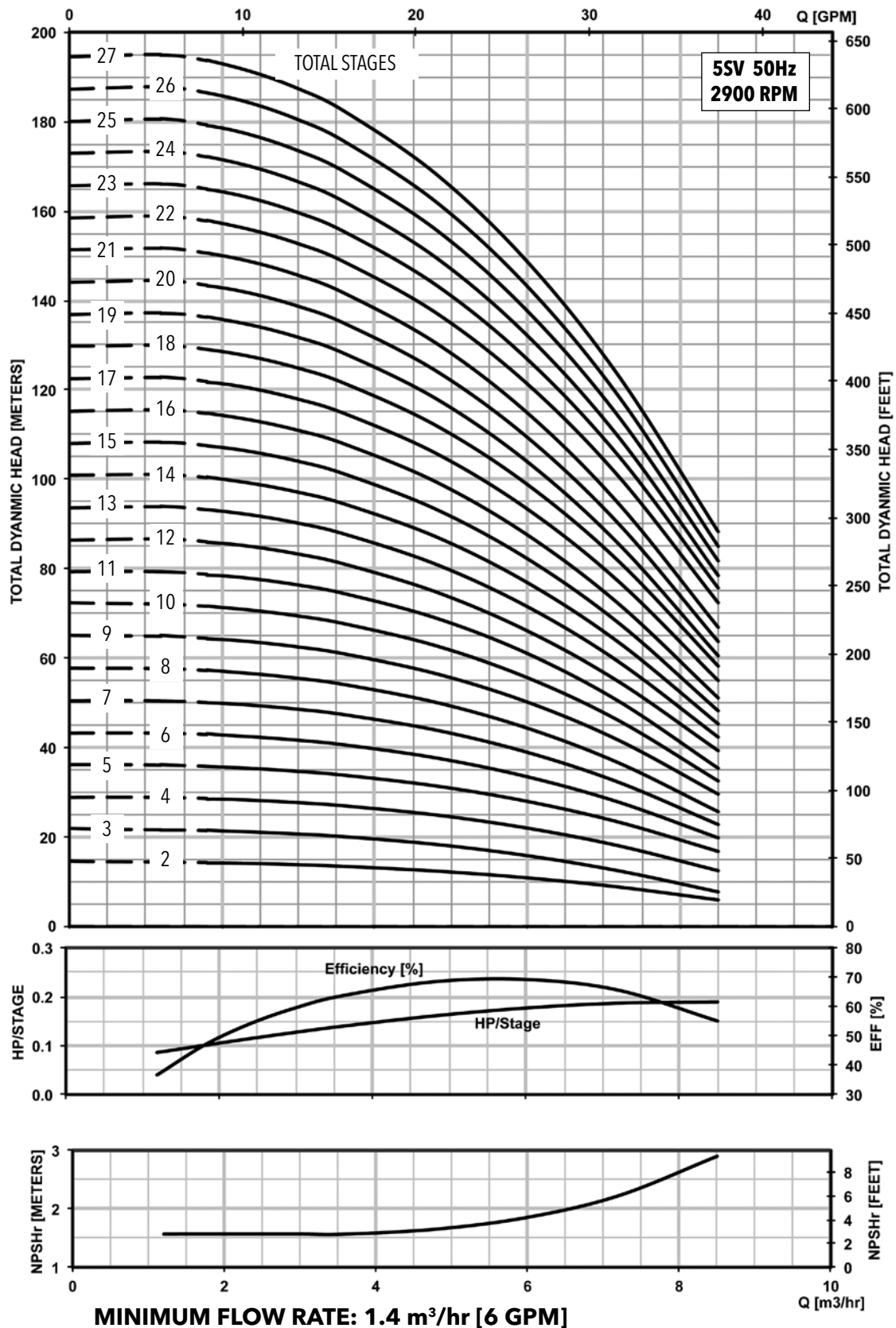
All dimensions are in inches (mm).

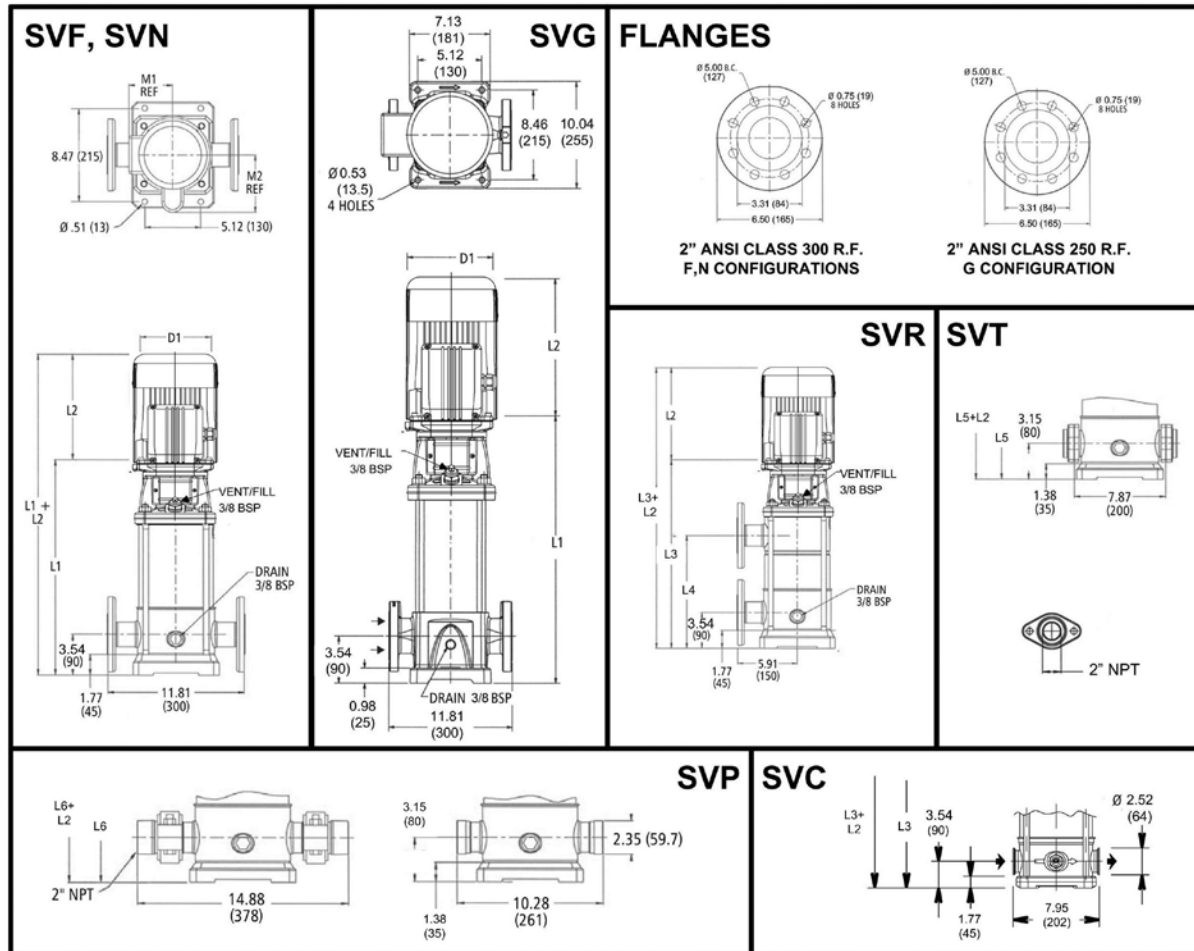
Pump Type Stages	Motor					Dimensions (in)														Weight (lbs.)									
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30						ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30
5SV-02	0.5	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						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	26	27	29	21	21	53	55	47	47
5SV-04	0.75					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	28	32	40	23	23	60	68	51	51
5SV-05	1					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						16.81	10.67	11.19	10.66	9.91	-	-	15.83	15.83	5.74	6.19	7.19	6.19	6.19	4.72	30	32	40	30	28	62	70	60	58
5SV-07	1.5					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						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
5SV-09						19.77	11.18	12.06	11.16	10.79	19.77	11.50	18.78	18.78	5.74	7.19	7.19	6.19	6.19	4.72	33	43	51	32	33	76	84	65	66
5SV-10	2					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						21.74	11.57	13.44	11.18	11.16	21.74	13.46	20.75	20.75	5.75	6.50	7.19	7.16	7.19	5.51	35	49	64	41	44	84	99	76	79
5SV-12						22.72	11.57	13.44	11.18	11.16	22.72	14.45	21.74	21.74	5.75	6.50	7.19	7.16	7.19	5.51	36	49	64	41	44	85	100	77	80
5SV-13	3	184TC		182TC	184TC	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	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	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	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						29.33	13.93	15.43	12.55	13.93	29.33	20.35	28.34	28.34	6.87	8.88	8.86	9.02	8.86	5.51	46	81	92	62	69	127	138	108	115
5SV-19	5	213TC		184TC	30.51	13.88	15.53	13.93	15.43	30.51	21.34	29.52	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	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	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	35.31	26.26	-	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	36.21	27.24	-	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	37.28	28.23	-	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					38.26	13.88	15.53	13.93	15.43	38.26	29.21	-	37.28	8.05	8.89	10.62	8.88	8.86	5.51	55	100	120	75	85	155	175	130	140	

Performance Curve

5SV 2900 RPM

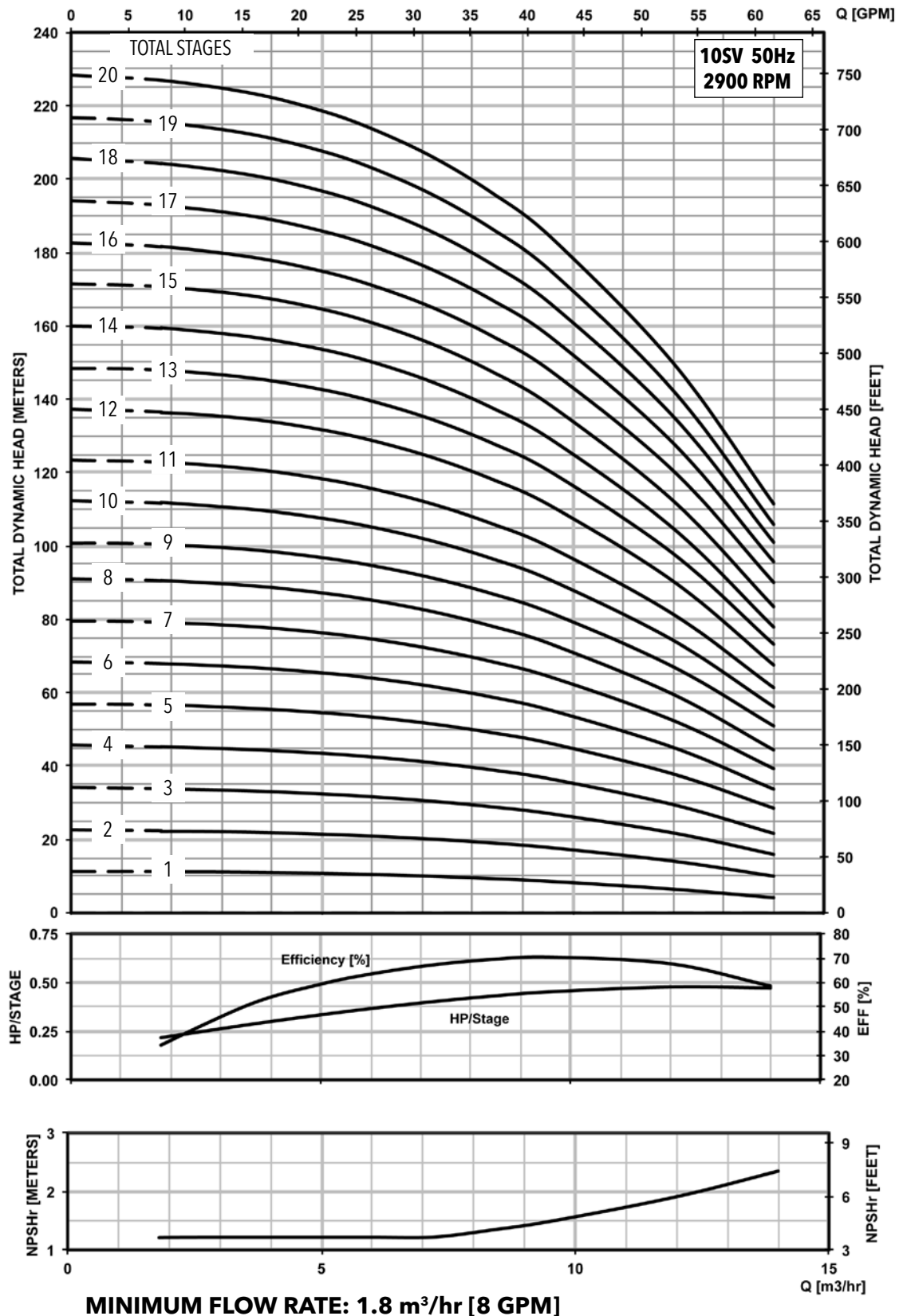
50 Hz

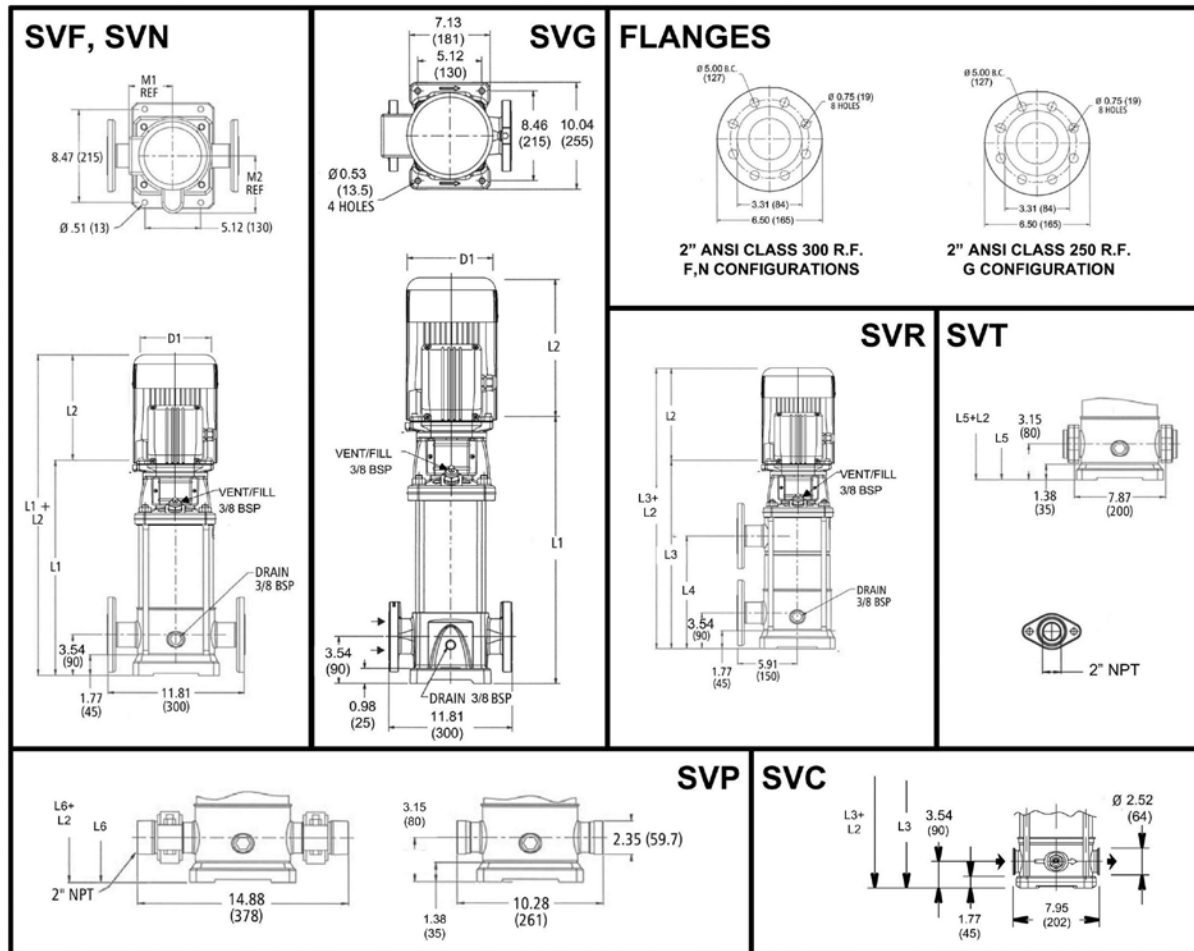




All dimensions are in inches (mm).

Pump Type Stages	Motor					Dimensions (in)															Weight (lbs.)									
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor				
		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30						ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30	
10SV-01	0.5	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	1					16.56	10.67	11.19	10.66	9.91	-	-	16.17	16.17	5.74	6.19	7.19	6.19	6.19	4.72	38	32	40	30	28	70	78	68	66	
10SV-03	1.5					17.82	11.18	12.06	11.16	10.79	-	-	17.43	17.43	5.74	7.19	7.19	6.19	6.19	4.72	40	43	51	32	33	83	91	72	73	
10SV-04	2					19.08	11.57	13.44	11.18	11.16	-	-	18.69	18.69	5.75	6.50	7.19	7.16	7.19	5.51	43	49	64	41	44	92	107	84	87	
10SV-05	3	184TC	182TC	184TC	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					23.36	13.93	15.43	12.55	13.93	23.36	12.72	22.97	22.97	6.87	8.88	8.86	9.02	8.86	5.51	52	81	92	62	69	133	144	114	121		
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	5	213TC	184TC		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					27.14	13.88	15.53	13.93	15.43	27.14	16.50	26.74	26.74	8.05	8.89	10.62	8.88	8.86	5.51	59	100	120	75	85	159	179	134	144		
10SV-11					28.40	13.88	15.53	13.93	15.43	28.40	17.76	28.00	28.00	8.05	8.89	10.62	8.88	8.86	5.51	61	100	120	75	85	161	181	136	146		
10SV-12					28.87	13.88	15.53	13.93	15.43	28.87	19.02	28.48	28.48	8.05	8.89	10.62	8.88	8.86	5.51	63	100	120	75	85	163	183	138	148		
10SV-13	7.5	215TC	215TC	213TC	215TC	31.51	16.63	16.68	15.55	15.51	31.51	20.28	31.11	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						34.03	16.63	16.68	15.55	15.51	34.03	22.80	-	33.63	8.77	10.62	10.18	10.18	10.28	5.51	79	132	145	107	122	211	224	186	201	
10SV-16						35.29	16.63	16.68	15.55	15.51	35.29	24.06	-	34.89	8.77	10.62	10.18	10.18	10.28	5.51	81	132	145	107	122	213	226	188	203	
10SV-17						36.55	16.63	16.68	15.55	15.51	36.55	25.31	-	36.15	8.77	10.62	10.18	10.18	10.28	5.51	83	132	145	107	122	215	228	190	205	
10SV-18						37.81	16.63	16.68	15.55	15.51	37.81	26.57	-	37.41	8.77	10.62	10.18	10.18	10.28	5.51	85	132	145	107	122	217	230	192	207	
10SV-19	10	-	-	215TC	254TC	39.78	-	-	15.55	16.57	39.78	27.83	-	39.38	9.22	-	-	10.18	10.28	5.51	92	-	-	125	195	-	-	217	287	
10SV-20						40.96	-	-	15.55	16.57	40.96	29.09	-	40.56	9.22	-	-	10.18	10.28	5.51	94	-	-	125	195	-	-	219	289	





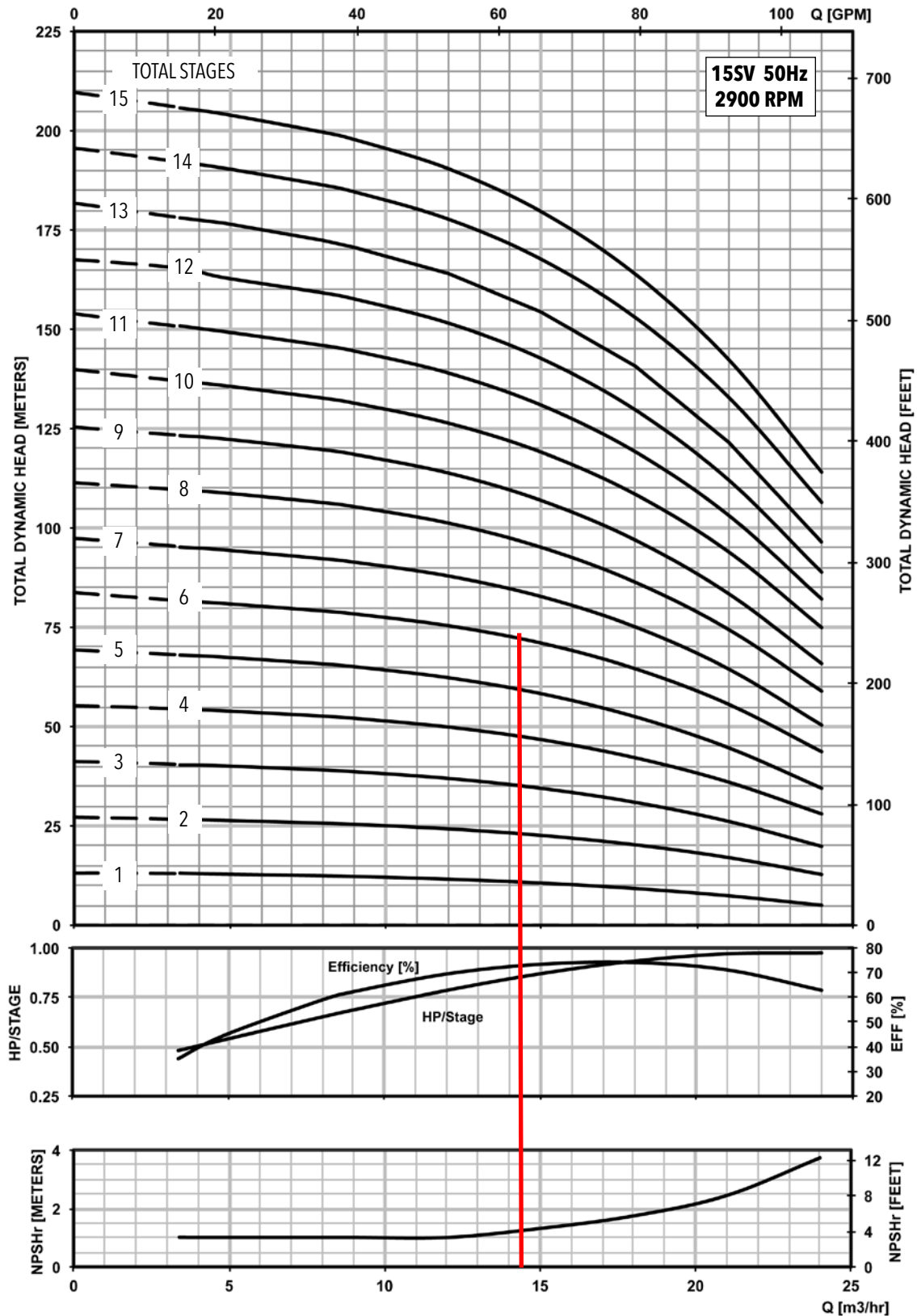
All dimensions are in inches (mm).

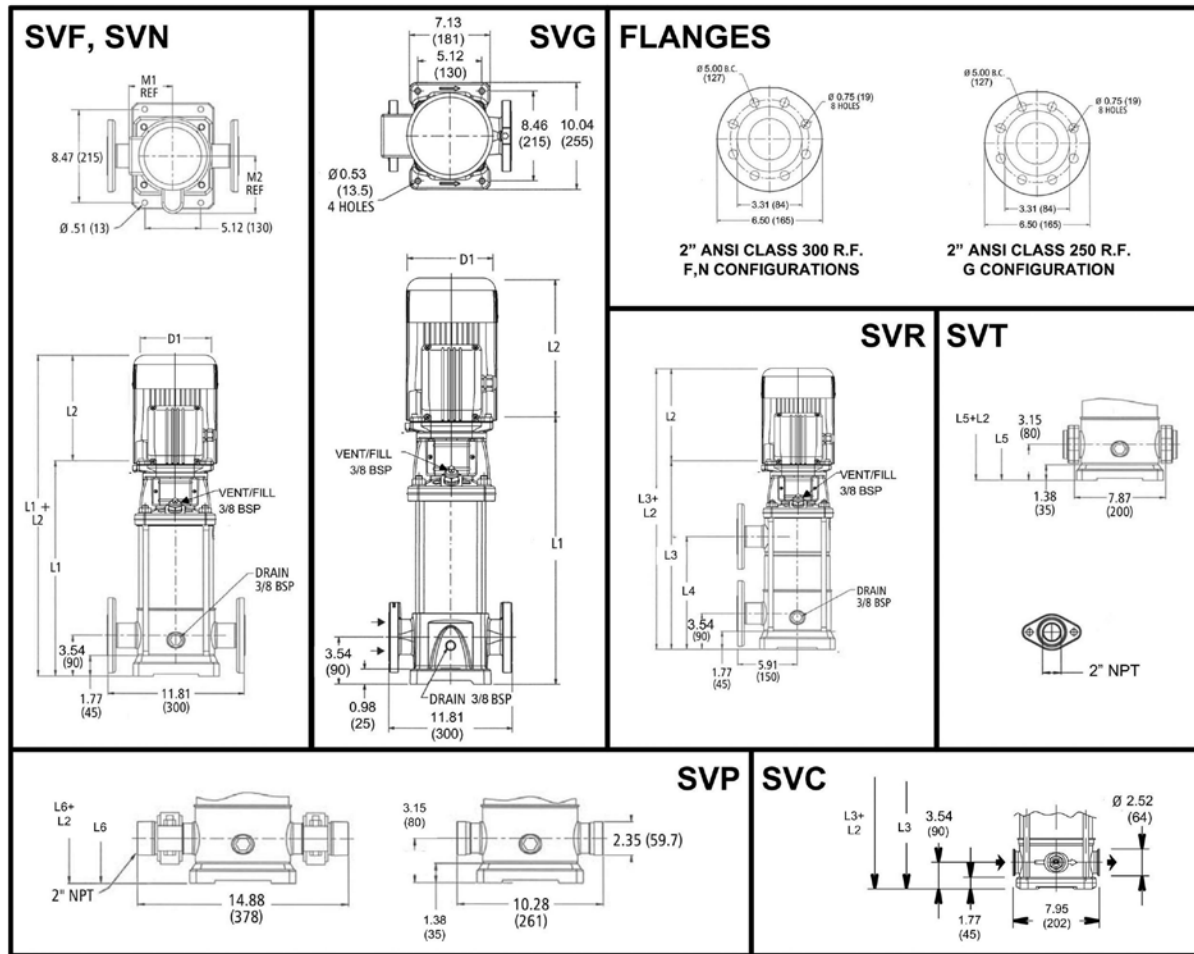
Pump Type Stages	Motor				Dimensions (in)															Weight (lbs.)									
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30						ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30
15SV-01	1	56C				18.21	10.67	11.19	10.66	9.91	-	-	17.82	17.82	5.74	6.19	7.19	6.19	6.19	4.72	37	32	40	30	28	69	77	67	65
15SV-02	2	56C				18.21	11.57	13.44	11.18	11.16	-	-	17.82	17.82	5.75	6.50	7.19	7.16	7.19	5.51	41	49	64	41	44	90	105	82	85
15SV-03	3	184TC		182TC	184TC	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	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						24.38	13.88	15.53	13.93	15.43	24.38	13.74	23.99	23.99	8.05	8.89	10.62	8.88	8.86	5.51	52	100	120	75	85	152	172	127	137
15SV-06	7.5	215TC	213TC	215TC		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						28.75	16.63	16.68	15.55	15.51	28.75	17.52	28.36	28.36	8.77	10.62	10.18	10.18	10.28	5.51	69	132	145	107	122	201	214	176	191
15SV-08	10					30.64	16.63	16.68	15.55	15.51	30.64	19.41	30.25	30.25	8.77	10.62	10.18	10.18	10.28	5.51	71	132	145	107	122	203	216	178	193
15SV-09						33.16	-	-	15.55	16.57	33.16	21.30	32.77	32.77	9.22	-	-	10.18	10.28	5.51	79	-	-	125	195	-	-	204	274
15SV-10	15			254TC		35.05	-	-	15.55	16.57	35.05	23.19	34.66	34.66	9.22	-	-	10.18	10.28	5.51	83	-	-	125	195	-	-	208	278
15SV-11						36.94	-	-	15.55	16.57	36.94	25.08	-	36.55	9.22	-	-	10.18	10.28	5.51	86	-	-	125	195	-	-	211	281
15SV-12	15					38.83	-	-	16.66	20.08	38.83	26.97	-	38.44	9.50	-	-	10.18	13.13	5.51	89	-	-	144	285	-	-	233	374
15SV-13						40.72	-	-	16.66	20.08	40.72	28.86	-	40.33	9.50	-	-	10.18	13.13	5.51	92	-	-	144	285	-	-	236	377
15SV-14						42.61	-	-	16.66	20.08	42.61	30.75	-	42.22	9.50	-	-	10.18	13.13	5.51	95	-	-	144	285	-	-	239	380
15SV-15						44.50	-	-	16.66	20.08	44.50	32.64	-	44.11	9.50	-	-	10.18	13.13	5.51	98	-	-	144	285	-	-	242	383

Performance Curve

15SV 2900 RPM

50 Hz





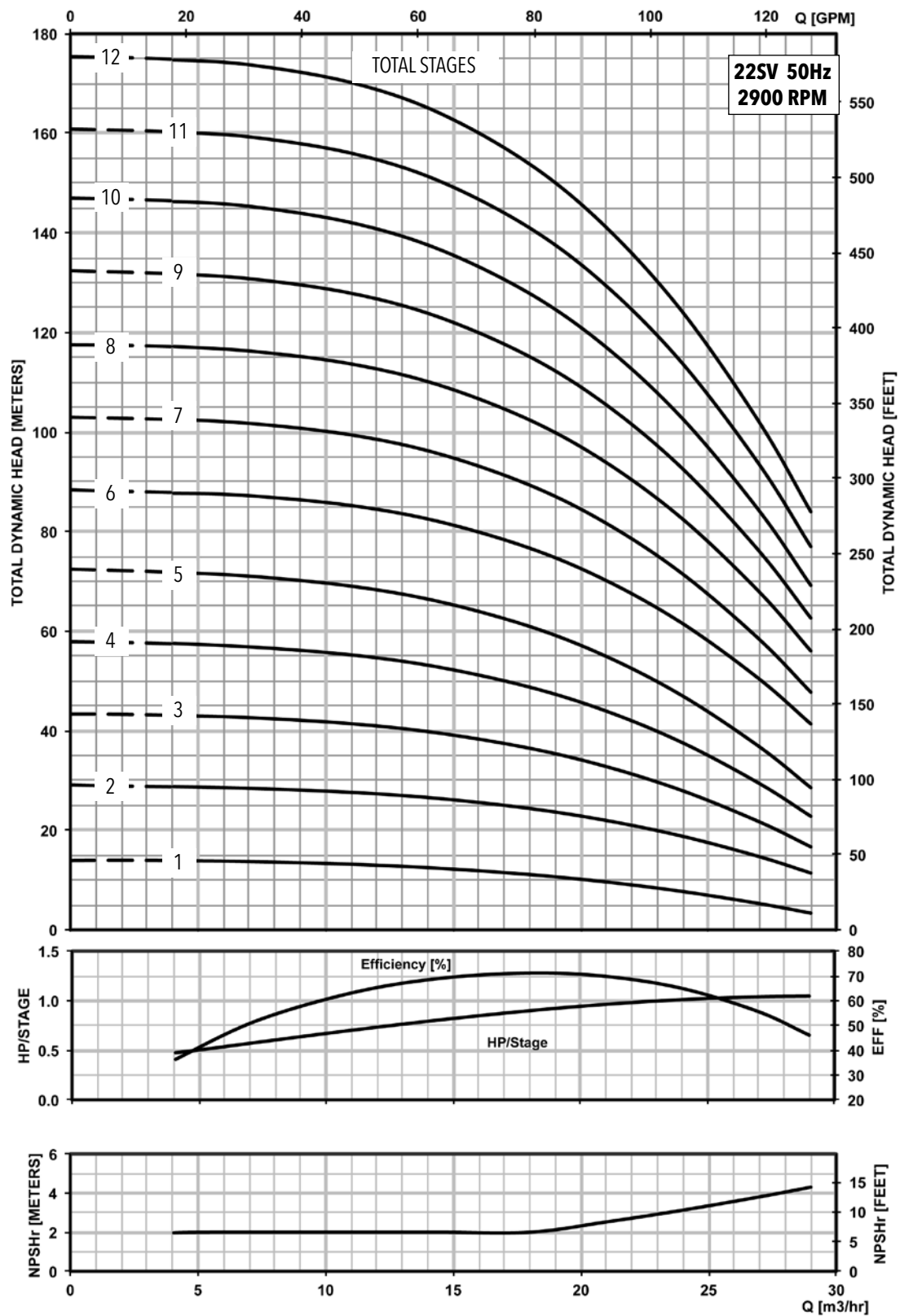
All dimensions are in inches (mm).

Pump Type Stages	Motor					Dimensions (in)														Weight (lbs.)									
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30						ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30
22SV-01	1.5	56C				18.61	11.18	12.06	11.16	10.79	-	-	17.82	17.82	5.74	7.19	7.19	6.19	6.19	4.72	38	43	51	32	33	81	89	70	71
22SV-02	3	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	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					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	51	100	120	75	85	151	171	126	136	
22SV-05	7.5	215TC		213TC	215TC	24.97	16.63	16.68	15.55	15.51	24.97	13.74	24.58	24.58	8.77	10.62	10.18	10.28	5.51	61	132	145	107	122	193	206	168	183	
22SV-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	64	132	145	107	122	196	209	171	186		
22SV-07	10			215TC	254TC	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				31.27	-	-	15.55	16.57	31.27	19.41	30.88	30.88	9.22	-	-	10.18	10.28	5.51	75	-	-	125	195	-	-	200	270		
22SV-09	15			254TC	256TC	33.16	-	-	16.66	20.08	33.16	21.30	32.77	32.77	9.50	-	-	10.18	13.13	5.51	77	-	-	144	285	-	-	221	362
22SV-10						35.05	-	-	16.66	20.08	35.05	23.19	34.66	34.66	9.50	-	-	10.18	13.13	5.51	81	-	-	144	285	-	-	225	366
22SV-11						36.94	-	-	16.66	20.08	36.94	25.08	-	36.55	9.50	-	-	10.18	13.13	5.51	84	-	-	144	285	-	-	228	369
22SV-12						38.83	-	-	16.66	20.08	38.83	26.97	-	38.44	9.50	-	-	10.18	13.13	5.51	87	-	-	144	285	-	-	231	372

Performance Curve

22SV 2900 RPM

50 Hz

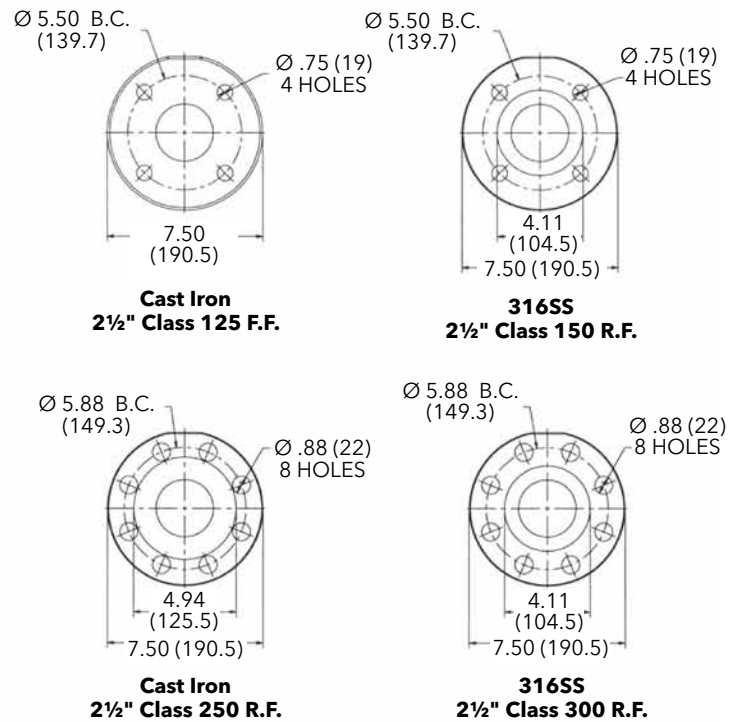
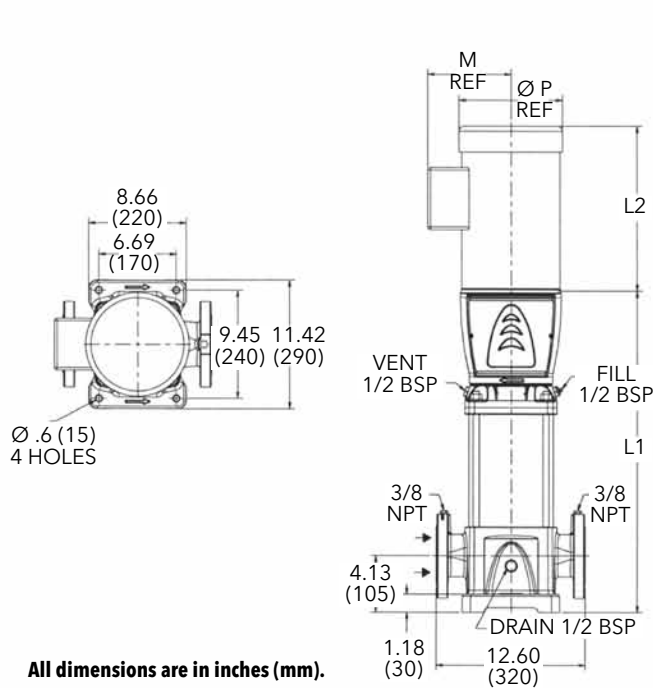


MINIMUM FLOW RATE: 4.1 m³/hr [18 GPM]

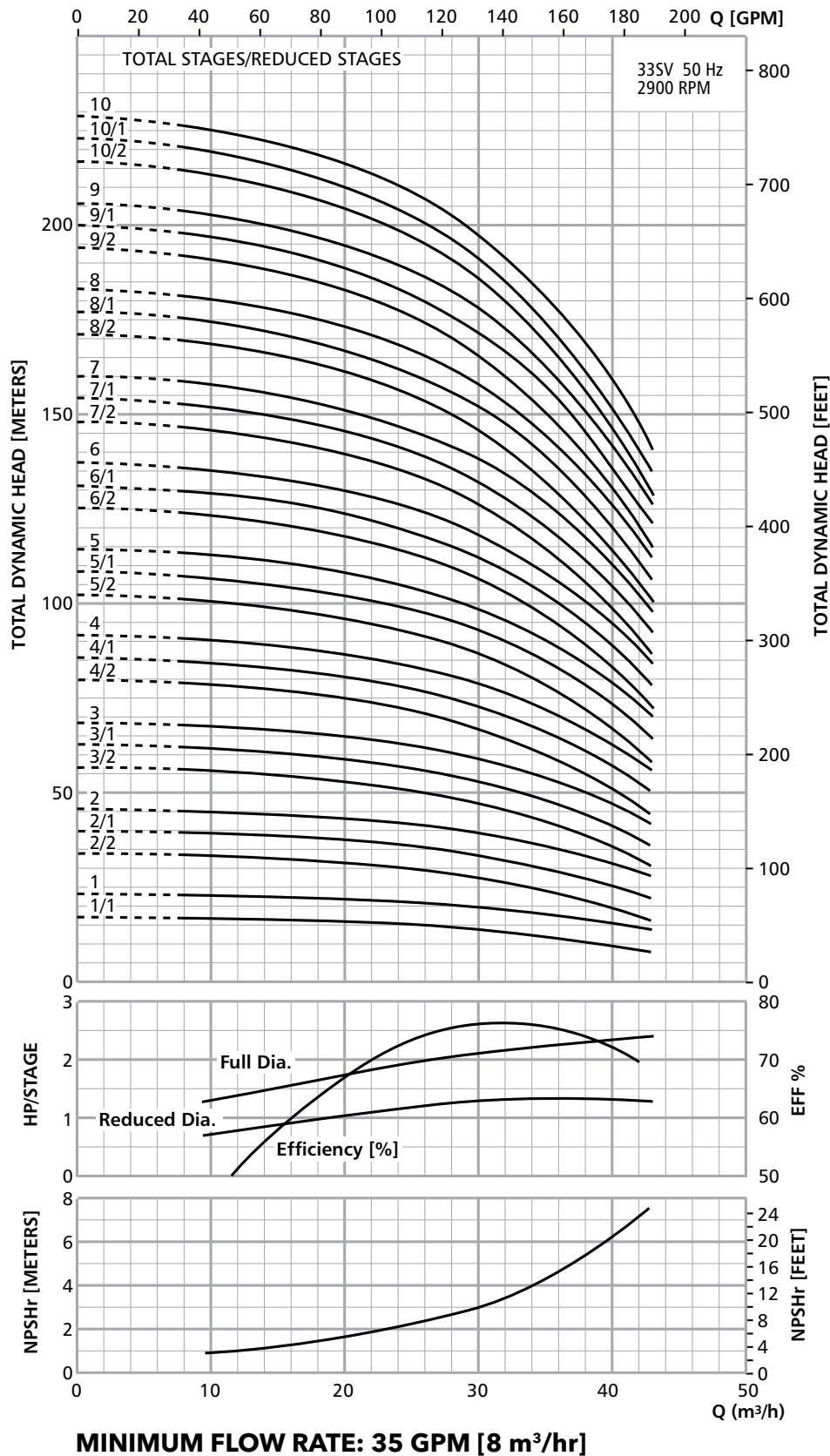
Dimensions and Weights

33SV Series 2900 RPM

50 Hz



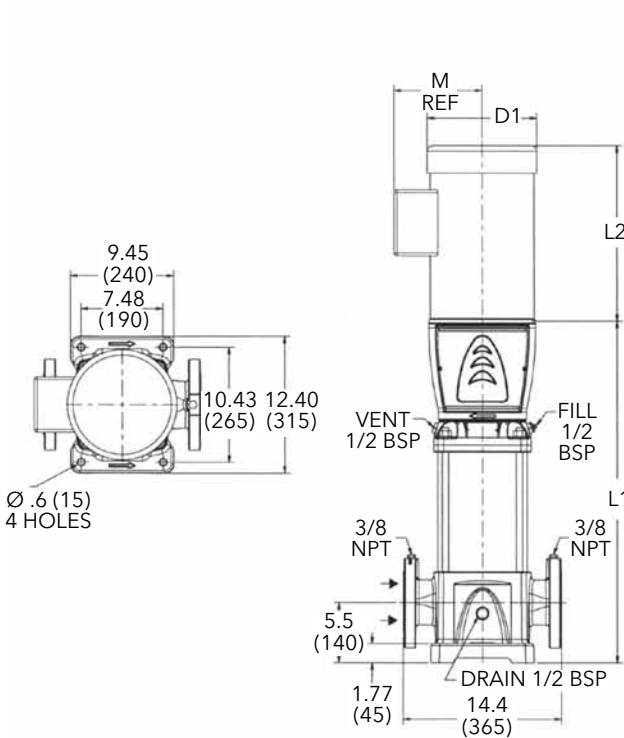
Pump Type Stages	Motor					Dimensions (in)										Weight (lbs.)									
	HP	NEMA Frame				L1	L2				M (Ref.)	D1 (max.)				D2	Pump Only	Motor				Pump/Motor			
		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30
33SV-1	3	182TC	184TC	182TC	184TC	20.62	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	132	81	92	62	69	213	224	194	201
33SV-2/2	5	184TC				23.58	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	143	100	120	75	85	243	263	218	228
33SV-2/1						23.58	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	143	100	120	75	85	243	263	218	228
33SV-2	7.5	213TC			215TC	23.58	15.56	15.56	15.50	15.50	8.06	10.19	10.19	10.25	10.25	5.51	143	132	145	107	122	275	288	250	265
33SV-3/2						26.54	15.56	15.56	15.50	15.50	8.06	10.19	10.19	10.25	10.25	5.51	152	132	145	107	122	284	297	259	274
33SV-3/1						26.54	15.56	15.56	15.50	15.50	8.06	10.19	10.19	10.25	10.25	5.51	152	132	145	107	122	284	297	259	274
33SV-3	10	-	-	215TC	254TC	26.54	-	-	16.56	16.56	9.25	10.19	10.19	10.31	10.31	5.51	152	-	-	125	195	-	-	277	347
33SV-4/2		-	-			29.50	-	-	16.56	16.56	9.25	10.19	10.19	10.31	10.31	5.51	161	-	-	125	195	-	-	286	356
33SV-4/1		-	-			29.50	-	-	16.56	16.56	9.25	10.19	10.19	10.31	10.31	5.51	161	-	-	125	195	-	-	286	356
33SV-4	15	-	-	254TC	256TC	29.50	-	-	16.56	16.56	9.25	10.19	10.19	10.31	10.31	5.51	161	-	-	144	285	-	-	305	446
33SV-5/2		32.44	-			-	16.56	16.56	9.25	10.19	10.19	10.31	10.31	5.51	172	-	-	144	285	-	-	316	457		
33SV-5/1		32.44	-			-	16.56	16.56	9.25	10.19	10.19	10.31	10.31	5.51	172	-	-	144	285	-	-	316	457		
33SV-5		32.44	-			-	16.56	16.56	9.25	10.19	10.19	10.31	10.31	5.51	172	-	-	144	285	-	-	316	457		
33SV-6/2		35.40	-			-	16.56	16.56	9.25	10.19	10.19	10.31	10.31	5.51	194	-	-	144	285	-	-	338	479		
33SV-6/1		35.40	-			-	23.38	23.38	13.12	11.63	11.63	15.31	15.31	5.51	194	-	-	185	283	-	-	379	477		
33SV-6	20	-	-	256TC	284TC	35.40	-	-	23.38	23.38	13.12	11.63	11.63	15.31	15.31	5.51	194	-	-	185	283	-	-	379	477
33SV-7/2		38.35	-			-	23.38	23.38	13.12	11.63	11.63	15.31	15.31	5.51	204	-	-	185	283	-	-	389	487		
33SV-7/1		38.35	-			-	23.38	23.38	13.12	11.63	11.63	15.31	15.31	5.51	204	-	-	185	283	-	-	389	487		
33SV-7		38.35	-			-	23.38	23.38	13.12	11.63	11.63	15.31	15.31	5.51	204	-	-	185	283	-	-	389	487		
33SV-8/2		41.30	-			-	23.38	23.38	13.12	11.63	11.63	15.31	15.31	5.51	221	-	-	185	283	-	-	406	504		
33SV-8/1		41.30	-			-	23.38	23.38	13.12	13.25	13.25	15.31	15.31	5.51	221	-	-	296	382	-	-	517	603		
33SV-8	25	-	-	256TC	284TC	41.30	-	-	23.38	23.38	13.12	13.25	13.25	15.31	15.31	5.51	221	-	-	296	382	-	-	517	603
33SV-9/2		44.25	-			-	23.38	23.38	13.12	13.25	13.25	15.31	15.31	5.51	230	-	-	296	382	-	-	526	612		
33SV-9/1		44.25	-			-	23.38	23.38	13.12	13.25	13.25	15.31	15.31	5.51	230	-	-	296	382	-	-	526	612		
33SV-9		44.25	-			-	23.38	23.38	13.12	13.25	13.25	15.31	15.31	5.51	230	-	-	296	382	-	-	526	612		
33SV-10/2	30	-	-	284TC	284TC	47.20	-	-	23.38	23.38	13.12	13.25	13.25	15.31	15.31	5.51	249	-	-	315	446	-	-	564	695
33SV-10/1		47.20	-			-	23.38	23.38	13.12	13.25	13.25	15.31	15.31	5.51	249	-	-	315	446	-	-	564	695		
33SV-10		47.20	-			-	23.38	23.38	13.12	13.25	13.25	15.31	15.31	5.51	249	-	-	315	446	-	-	564	695		



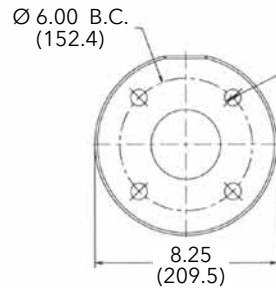
Dimensions and Weights

46SV Series 2900 RPM

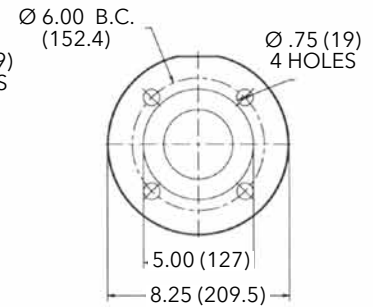
50 Hz



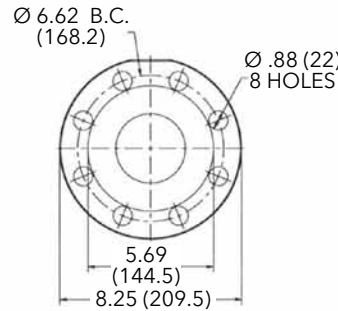
All dimensions are in inches (mm).



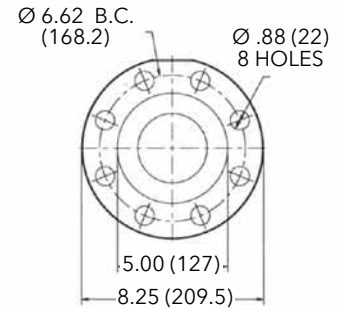
**Cast Iron
3" Class 125 F.F.**



**316SS
3" Class 150 R.F.**



**Cast Iron
3" Class 250 R.F.**



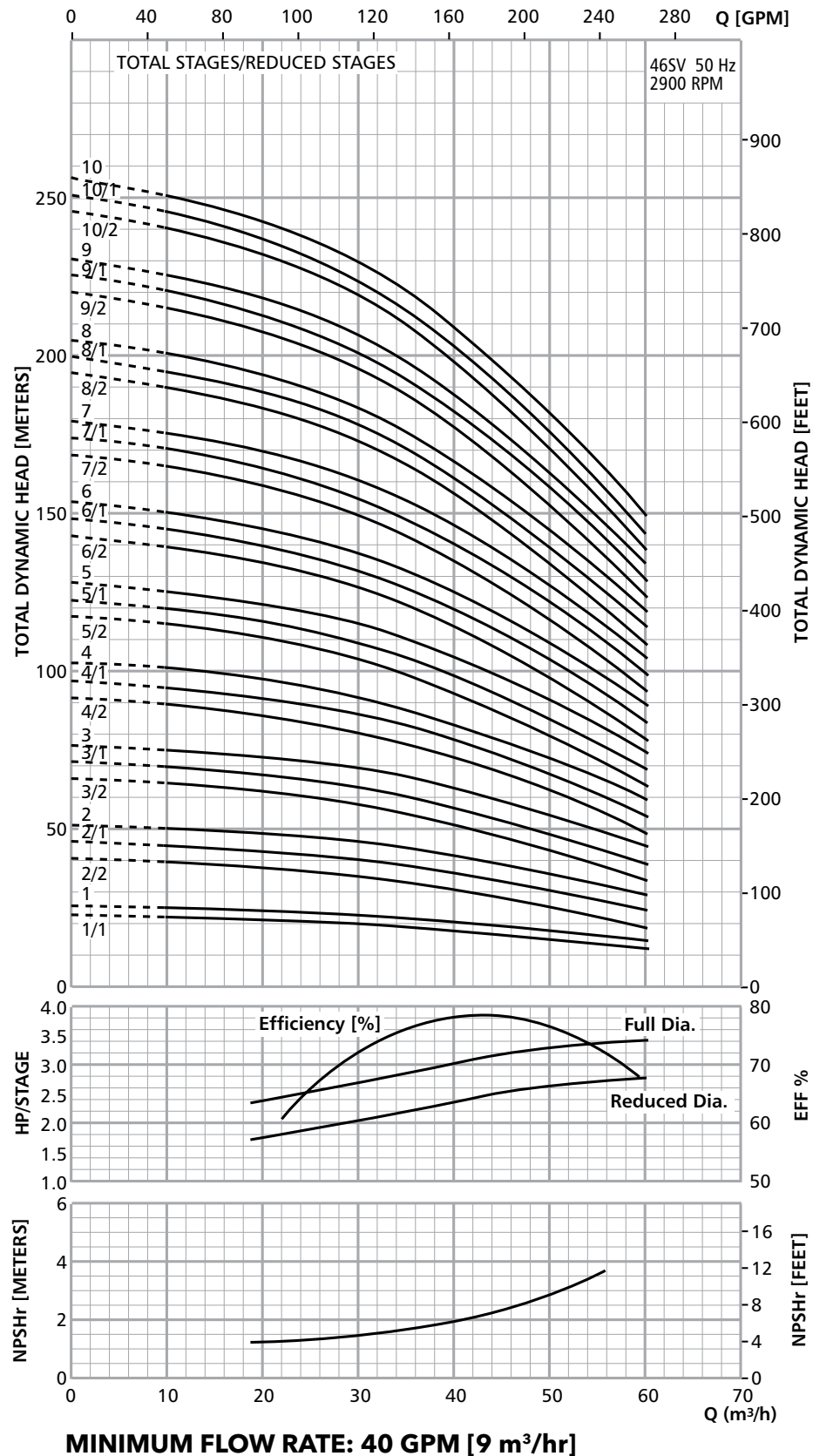
**316SS
3" Class 300 R.F.**

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
46SV-1	5	184TC				22.19	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	147	101	124	101	124	248	271	248	271
46SV-2/2						25.19	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	158	101	124	101	124	259	282	259	282
46SV-2/1	7.5	213TC			215TC	25.19	13.94	15.44	15.56	15.50	8.06	10.19	10.25	10.19	10.25	5.51	158	130	151	130	151	288	309	288	309
46SV-2	10	-	-	215TC	254TC	25.19	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	158	-	-	128	250	-	-	286	408
46SV-3/2		-	-			28.12	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	169	-	-	128	250	-	-	297	419
46SV-3/1	15	-	-	254TC	256TC	28.12	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	169	-	-	220	280	-	-	389	449
46SV-3		-	-			28.12	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	169	-	-	220	280	-	-	389	449
46SV-4/2		-	-			32.63	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	185	-	-	220	280	-	-	405	465
46SV-4/1		-	-			32.63	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	185	-	-	220	280	-	-	405	465
46SV-4	20	-	-	256TC	284TC	32.63	-	-	18.00	23.38	13.12	-	-	11.63	15.13	5.51	185	-	-	240	420	-	-	425	605
46SV-5/2		-	-			35.56	-	-	18.00	23.38	13.12	-	-	11.63	15.13	5.51	199	-	-	240	420	-	-	439	619
46SV-5/1		-	-			35.56	-	-	18.00	23.38	13.12	-	-	11.63	15.13	5.51	199	-	-	240	420	-	-	439	619
46SV-5		-	-			35.56	-	-	18.00	23.38	13.12	-	-	11.63	15.13	5.51	199	-	-	240	420	-	-	439	619
46SV-6/2	25	-	-	284TC		38.50	-	-	20.12	23.38	13.12	-	-	13.25	15.13	5.51	208	-	-	325	445	-	-	533	653
46SV-6/1		-	-			38.50	-	-	20.12	23.38	13.12	-	-	13.25	15.13	5.51	208	-	-	325	445	-	-	533	653
46SV-6		-	-			38.50	-	-	20.12	23.38	13.12	-	-	13.25	15.13	5.51	208	-	-	325	445	-	-	533	653
46SV-7/2		-	-			40.94	-	-	20.12	23.38	13.12	-	-	13.25	15.13	5.51	225	-	-	325	445	-	-	550	670
46SV-7/1	30	-	-			40.94	-	-	20.12	23.38	13.12	-	-	13.25	15.13	5.51	225	-	-	328	448	-	-	553	673
46SV-7		-	-			40.94	-	-	20.12	23.38	13.12	-	-	13.25	15.13	5.51	225	-	-	328	448	-	-	553	673
46SV-8/2		-	-			43.94	-	-	20.12	23.38	13.12	-	-	13.25	15.13	5.51	234	-	-	328	448	-	-	562	682
46SV-8/1		-	-			43.94	-	-	20.12	23.38	13.12	-	-	13.25	15.13	5.51	234	-	-	328	448	-	-	562	682
46SV-8	40	-	-	326TSC		43.94	-	-	22.50	23.38	13.12	-	-	13.25	15.13	5.51	234	-	-	382	592	-	-	616	826
46SV-9/2		-	-			46.88	-	-	22.50	23.38	13.12	-	-	13.25	15.13	5.51	253	-	-	382	592	-	-	635	845
46SV-9/1		-	-			46.88	-	-	22.50	23.38	13.12	-	-	13.25	15.13	5.51	253	-	-	382	592	-	-	635	845
46SV-9		-	-			46.88	-	-	22.50	23.38	13.12	-	-	13.25	15.13	5.51	253	-	-	382	592	-	-	635	845
46SV-10/2		-	-			49.81	-	-	22.50	23.38	13.12	-	-	13.25	15.13	5.51	264	-	-	382	592	-	-	646	856

Performance Curve

46SV 2900 RPM

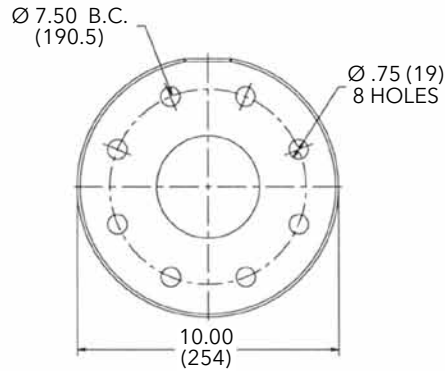
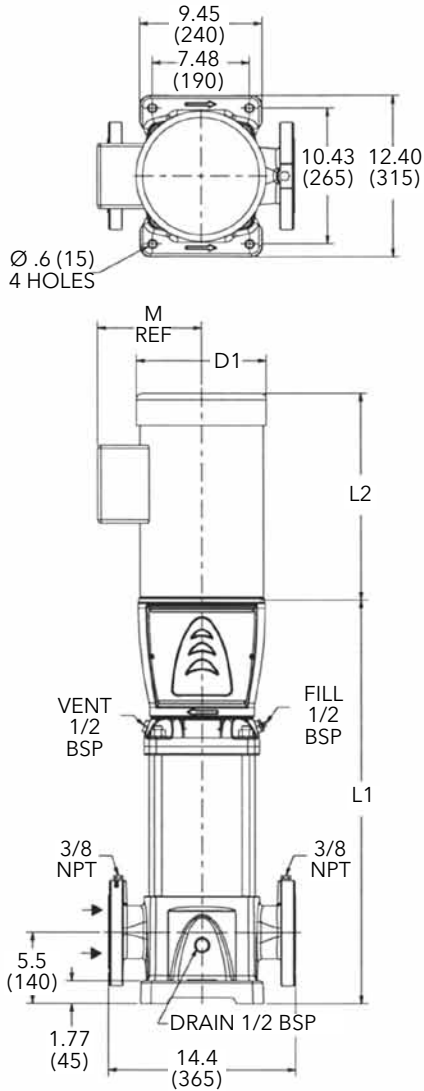
50 Hz



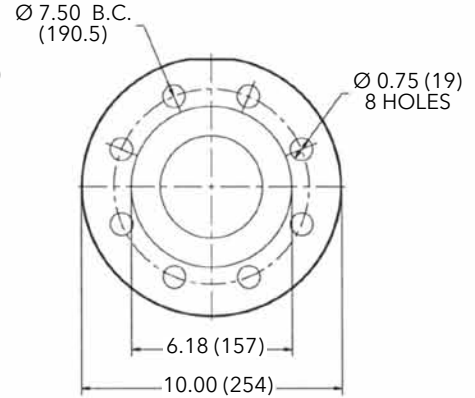
Dimensions and Weights

66SV Series 2900 RPM

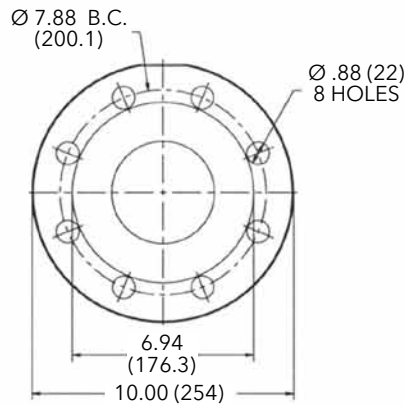
50 Hz



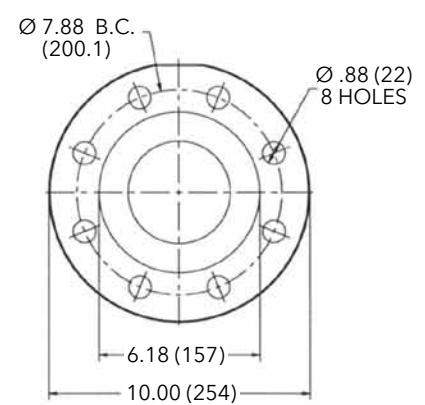
Cast Iron
4" Class 125 F.F.



316SS
4" Class 150 R.F.



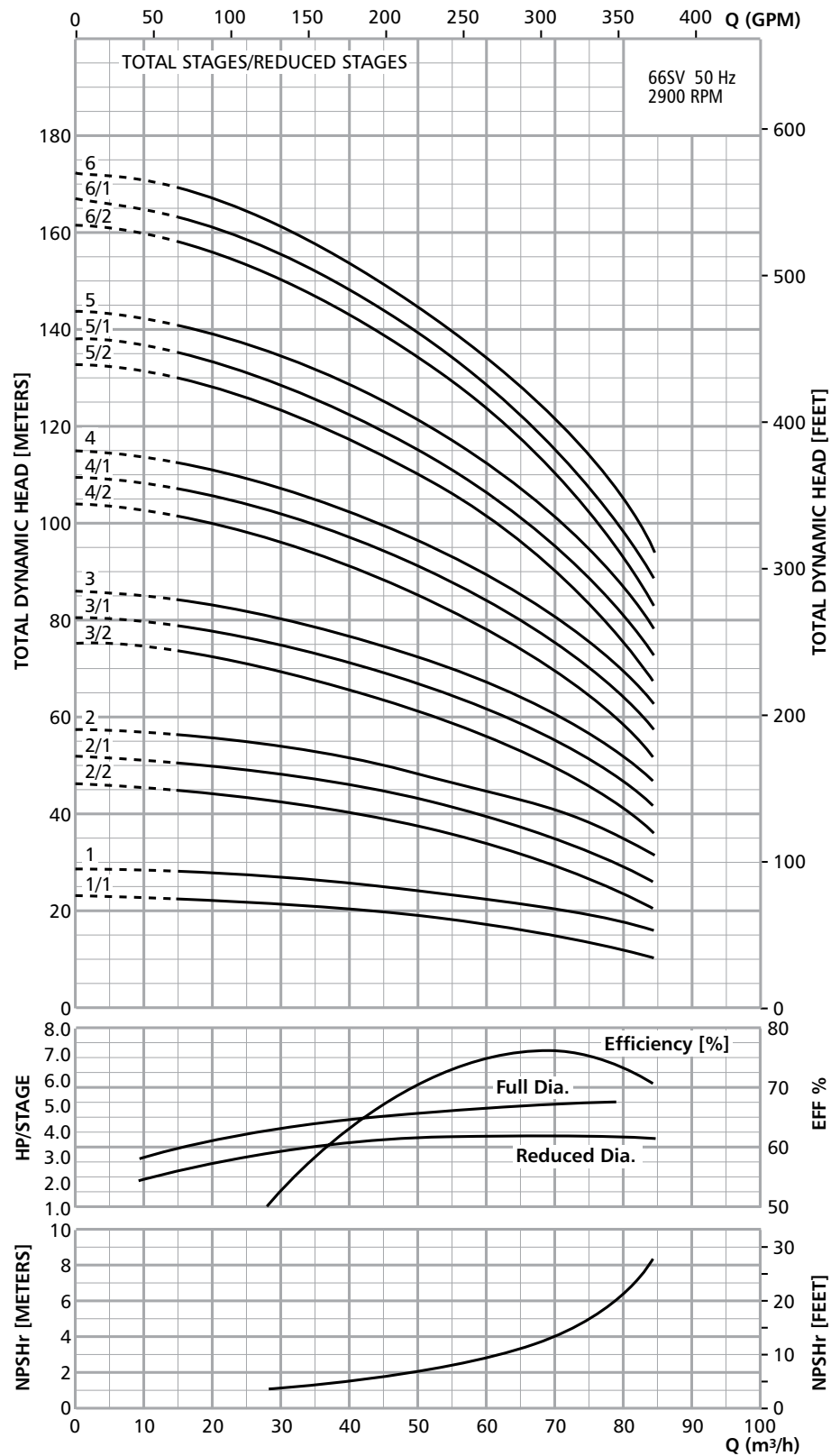
Cast Iron
4" Class 250 R.F.



316SS
4" Class 300 R.F.

All dimensions are in inches (mm).

Pump Type Stages	Motor					Dimensions (in)											Weight (lbs.)								
	HP	NEMA Frame				L1	L2				M (Ref.)	D1 (max.)				D2	Pump Only	Motor				Pump/Motor			
		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30
66SV-1	7.5	213TC			215TC	23.19	15.60	15.50	15.60	15.50	8.06	10.19	10.25	10.19	10.25	5.51	185	130	151	130	151	315	336	315	336
66SV-2/2	10	-	-	215TC	254TC	26.75	-	-	15.60	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	128	280	-	-	324	476
66SV-2/1	15	-	-	254TC	256TC	26.75	-	-	15.60	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	220	280	-	-	416	476
66SV-2		-	-			26.75	-	-	15.60	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	220	280	-	-	416	476
66SV-3/2		-	-			31.81	-	-	15.60	16.56	9.25	-	-	10.19	10.31	5.51	223	-	-	220	280	-	-	443	503
66SV-3/1		-	-			31.81	-	-	18.00	23.38	13.12	-	-	11.63	15.31	5.51	223	-	-	240	420	-	-	463	643
66SV-3	20	-	-	256TC	284TC	31.81	-	-	18.00	23.38	13.12	-	-	11.63	15.31	5.51	223	-	-	240	420	-	-	463	643
66SV-4/2	25	-	-	284TC	326TSC	35.38	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	234	-	-	325	445	-	-	559	679
66SV-4/1		-	-			35.38	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	234	-	-	325	445	-	-	559	679
66SV-4		-	-			35.38	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	234	-	-	325	445	-	-	559	679
66SV-5/2		-	-			39.44	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	244	-	-	328	448	-	-	572	692
66SV-5/1	30	-	-	284TC	326TSC	39.44	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	244	-	-	328	448	-	-	572	692
66SV-5		-	-			39.44	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	244	-	-	328	448	-	-	572	692
66SV-6/2	40	-	-	324TSC	326TSC	41.94	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	266	-	-	382	592	-	-	648	858
66SV-6/1		-	-			41.94	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	266	-	-	382	592	-	-	648	858
66SV-6		-	-			41.94	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	266	-	-	382	592	-	-	648	858

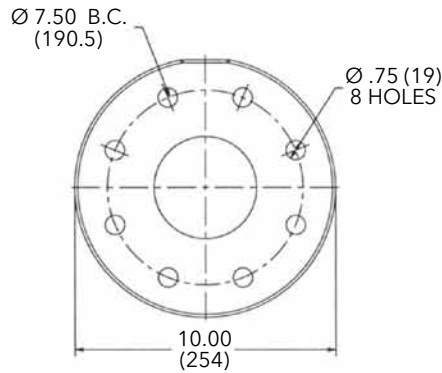
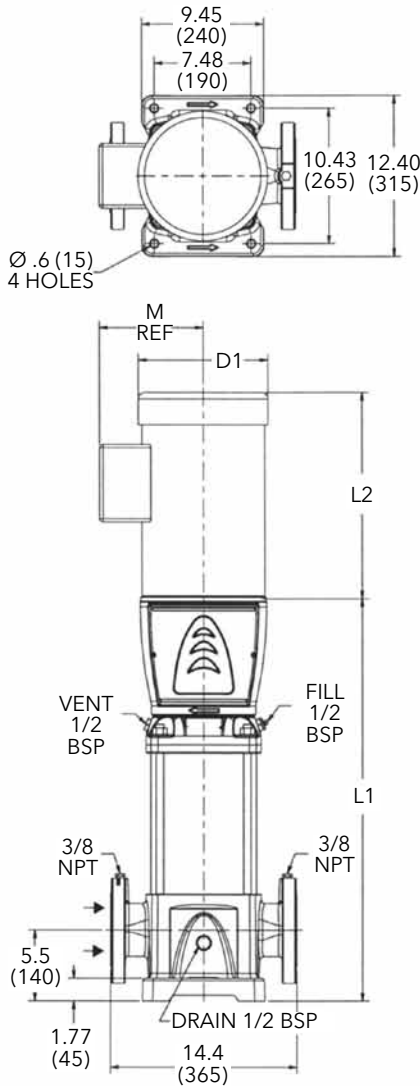


MINIMUM FLOW RATE: 70 GPM [16 m³/hr]

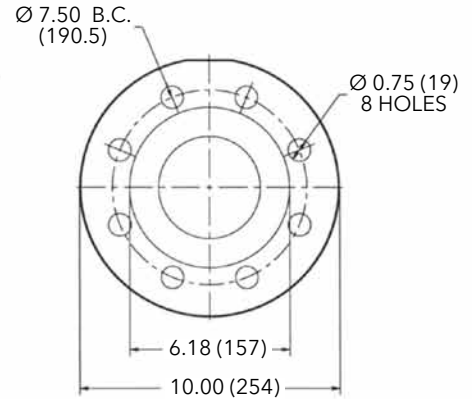
Dimensions and Weights

92SV Series 2900 RPM

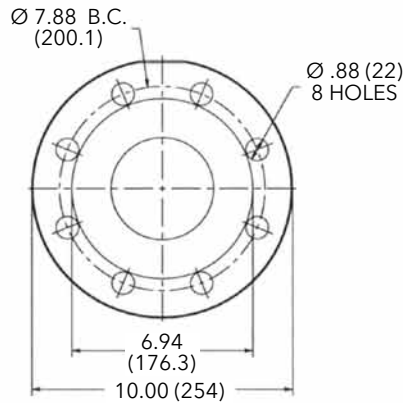
50 Hz



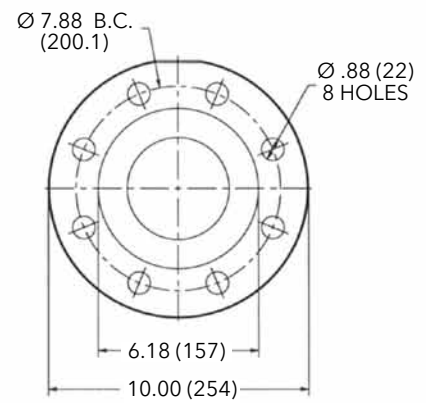
Cast Iron
4" Class 125 F.F.



316SS
4" Class 150 R.F.



Cast Iron
4" Class 250 R.F.



316SS
4" Class 300 R.F.

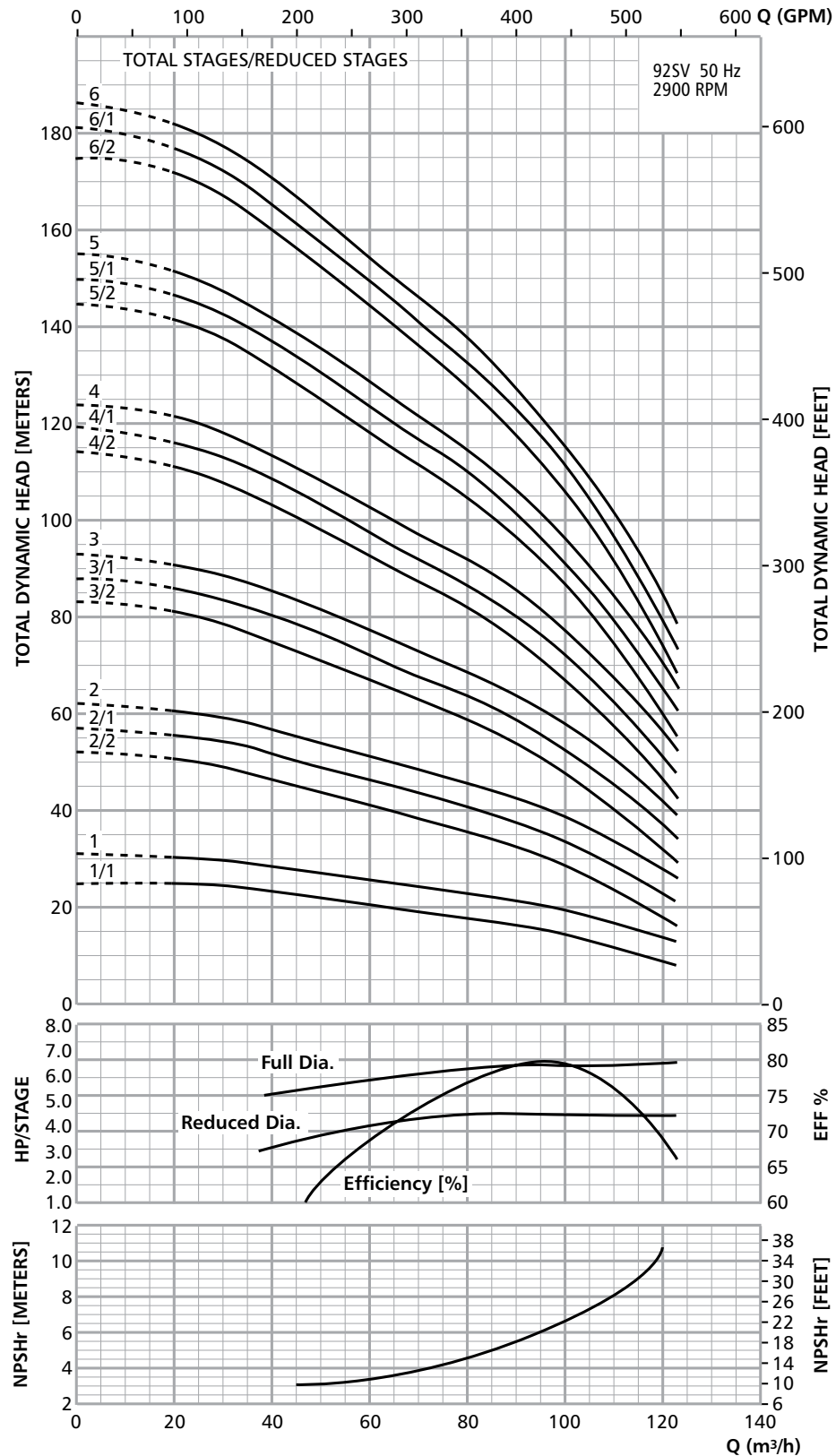
All dimensions are in inches (mm).

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	10	-	-	215TC	254TC	23.19	-	-	15.60	16.56	9.25	-	-	10.19	10.31	5.51	185	-	-	128	250	-	-	313	435
92SV-2/2	15	-	-	254TC	256TC	28.31	-	-	15.60	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	220	280	-	-	416	476
92SV-2/1		-	-			28.31	-	-	15.60	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	220	280	-	-	416	476
92SV-2	20	-	-	256TC	284TC	28.31	-	-	18.00	23.38	13.12	-	-	11.63	15.31	5.51	196	-	-	240	420	-	-	436	616
92SV-3/2		-	-			31.18	-	-	18.00	23.38	13.12	-	-	11.63	15.31	5.51	223	-	-	240	420	-	-	463	643
92SV-3/1	25	-	-	284TC	284TC	31.18	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	325	445	-	-	548	668
92SV-3		-	-			31.28	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	325	445	-	-	548	668
92SV-4/2	30	-	-	284TC	284TC	34.88	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	234	-	-	328	448	-	-	562	682
92SV-4/1		-	-			34.88	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	234	-	-	328	448	-	-	562	682
92SV-4	40	-	-	324TSC	326TSC	34.88	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	234	-	-	382	592	-	-	616	826
92SV-5/2		-	-			38.44	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	252	-	-	382	592	-	-	634	844
92SV-5/1		-	-			38.44	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	252	-	-	382	592	-	-	634	844
92SV-5		-	-			38.44	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	252	-	-	382	592	-	-	634	844
92SV-6/2	50	-	-	324TSC	326TSC	41.94	-	-	22.50	27.22	13.12	-	-	13.25	19.00	5.51	266	-	-	500	762	-	-	766	1028
92SV-6/1		-	-			41.94	-	-	22.50	27.22	13.12	-	-	13.25	19.00	5.51	266	-	-	500	762	-	-	766	1028
92SV-6		-	-			41.94	-	-	22.50	27.22	13.12	-	-	13.25	19.00	5.51	266	-	-	500	762	-	-	766	1028

Performance Curve

92SV 2900 RPM

50 Hz

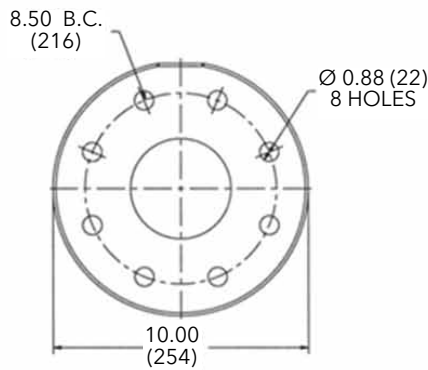
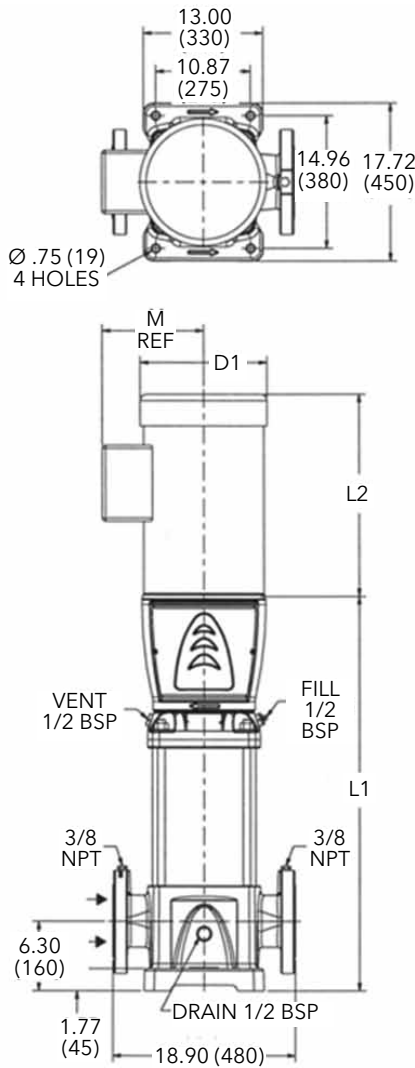


MINIMUM FLOW RATE: 100 GPM [23 m³/hr]

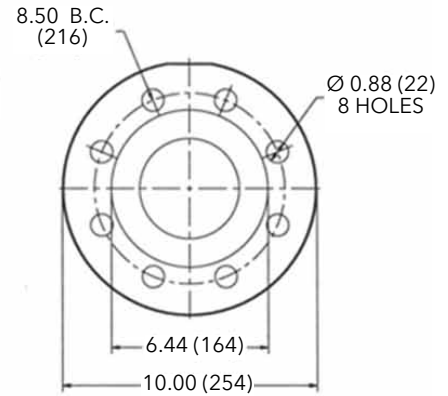
Dimensions and Weights

125SV Series 2900 RPM

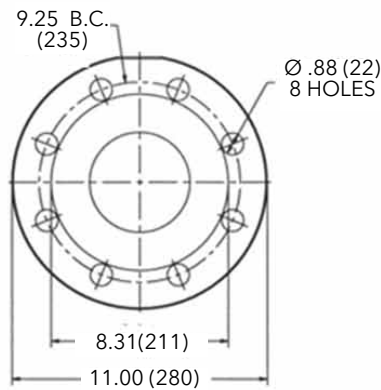
50 Hz



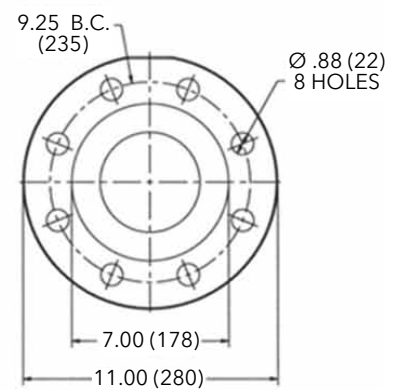
Cast Iron
5" Class 125 F.F.



316SS
5" Class 150 R.F.



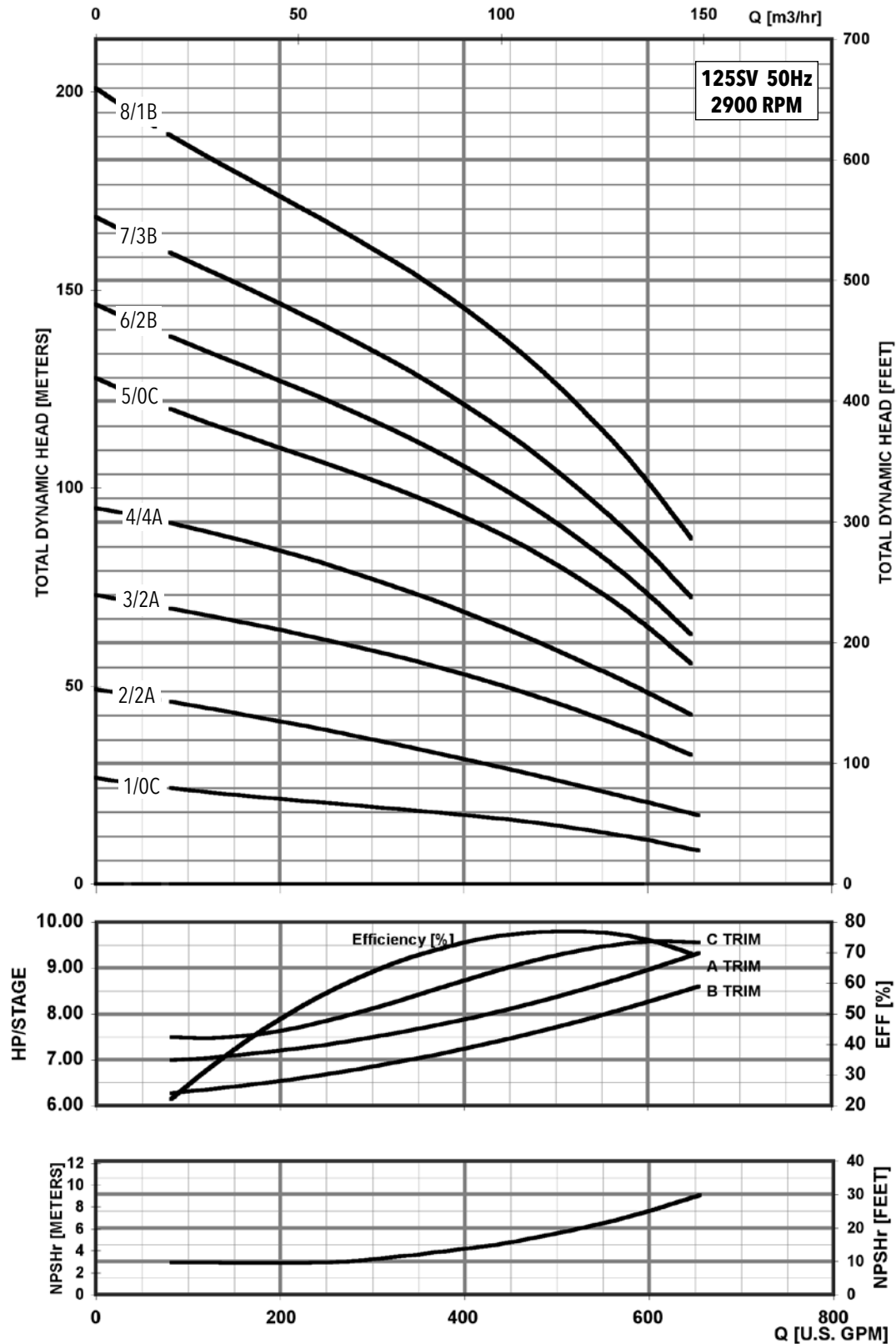
Cast Iron
5" Class 250 R.F.



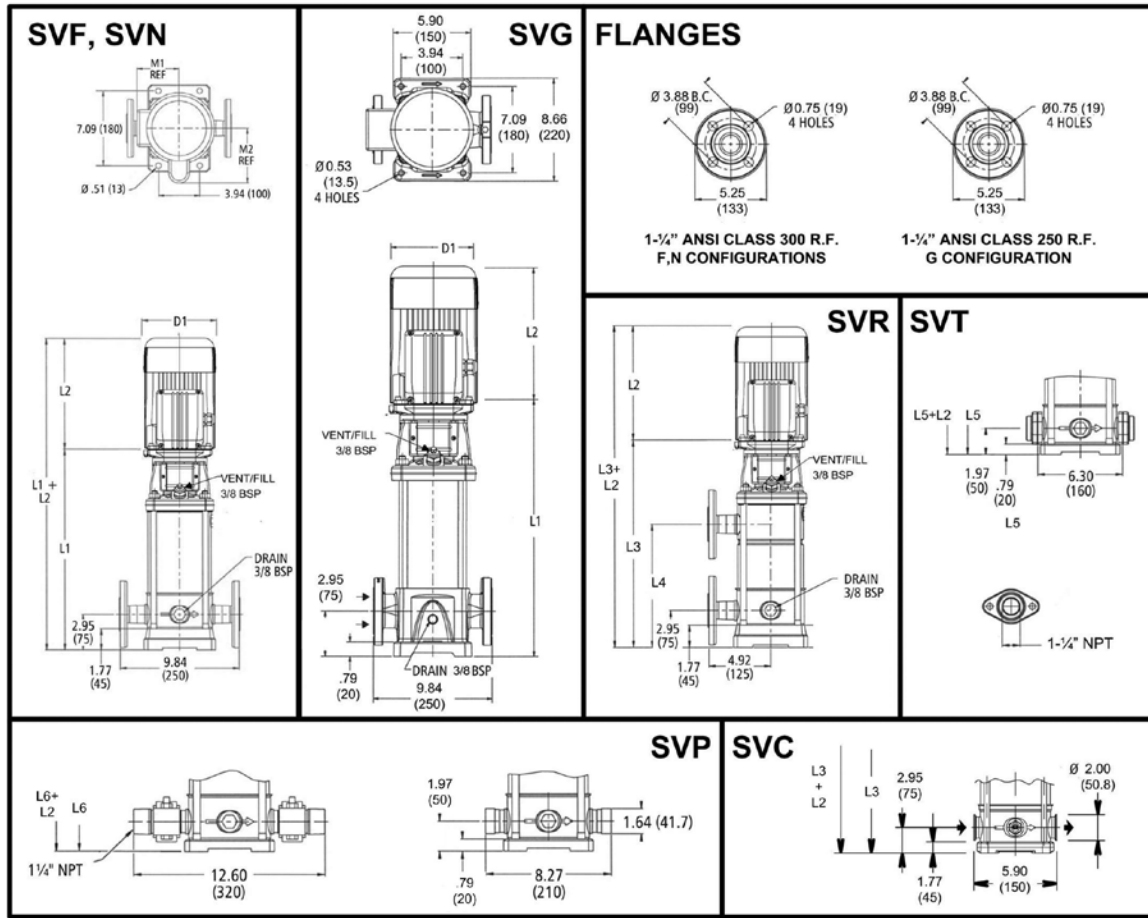
316SS
5" Class 300 R.F.

All dimensions are in inches (mm).

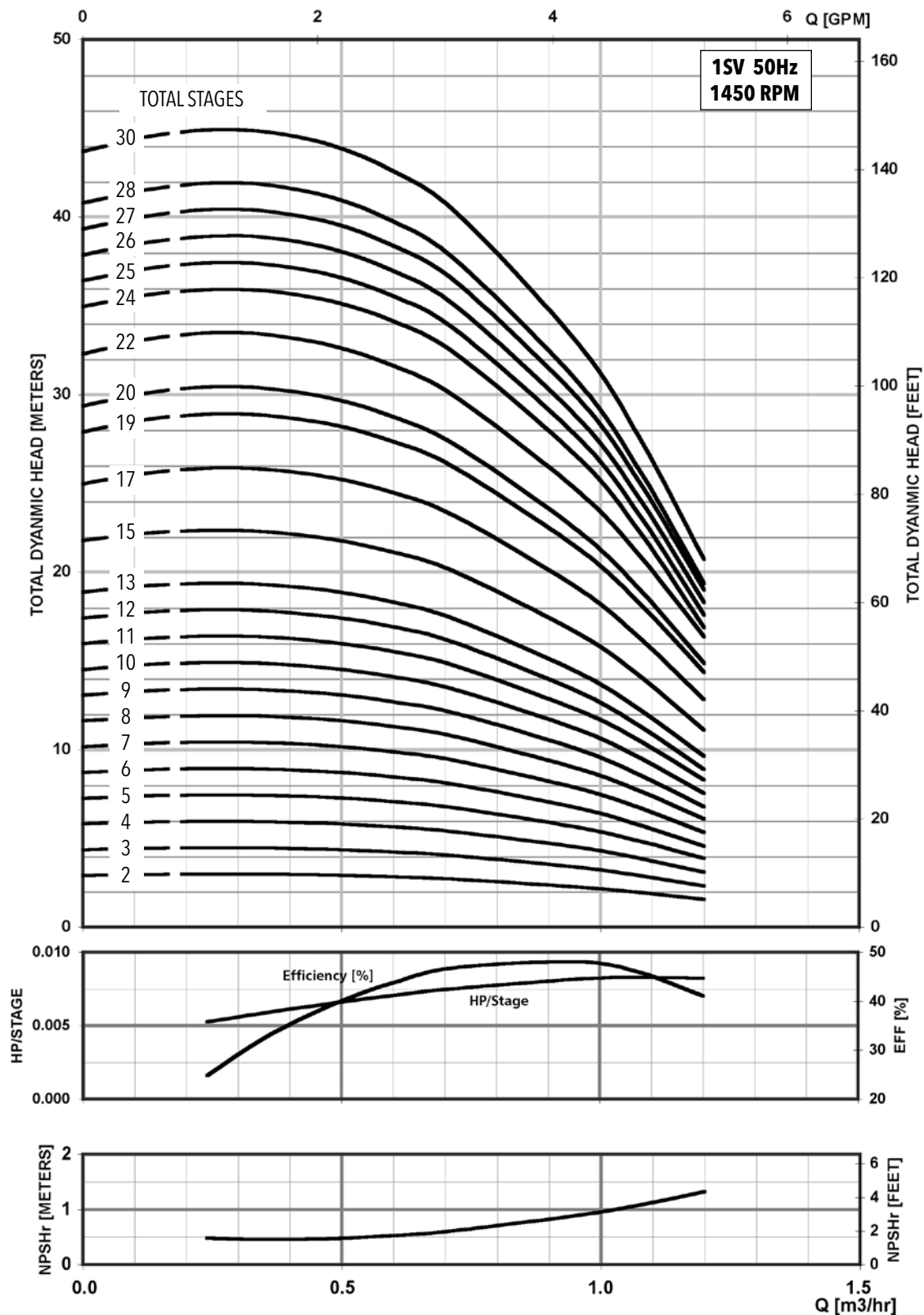
Pump Type	HP	Motor				Dimensions (in)														Weight (lbs.)									
		NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30						ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30
125SV/10C	10	-	-	215TC	254TC	27.30	-	-	15.55	16.57	-	-	-	-	922	-	-	10.18	10.28	472	256	-	-	125	195	-	-	381	451
125SV/22A	20	-	-	254TC	284TC	34.60	-	-	21.44	19.54	-	-	-	-	1294	-	-	11.63	12.94	551	289	-	-	185	283	-	-	474	572
125SV/32A	25	-	-	284TC	286TC	40.50	-	-	21.75	19.54	-	-	-	-	1221	-	-	13.25	12.94	551	315	-	-	296	382	-	-	611	697
125SV/44A	30	-	-	286TC	286TC	46.40	-	-	21.75	23.18	-	-	-	-	1311	-	-	13.25	15.56	551	355	-	-	315	446	-	-	670	801
125SV/50C	40	-	-	324TSC	326TSC	52.30	-	-	22.75	23.19	-	-	-	-	1221	-	-	13.03	15.69	551	379	-	-	320	450	-	-	699	829
125SV/62B	50	-	-	324TSC	326TSC	58.20	-	-	22.75	30.69	-	-	-	-	1495	-	-	13.03	19.25	551	412	-	-	372	689	-	-	784	1101
125SV/73B		65.30	-			-	22.75	30.69	-	-	-	-	1495	-	-	13.03	19.25	551	476	-	-	372	689	-	-	848	1165		
125SV/81B	60	-	-	364TSC	365TSC	71.10	-	-	24.38	30.69	-	-	-	-	1495	-	-	15.13	19.25	551	494	-	-	447	747	-	-	941	1241



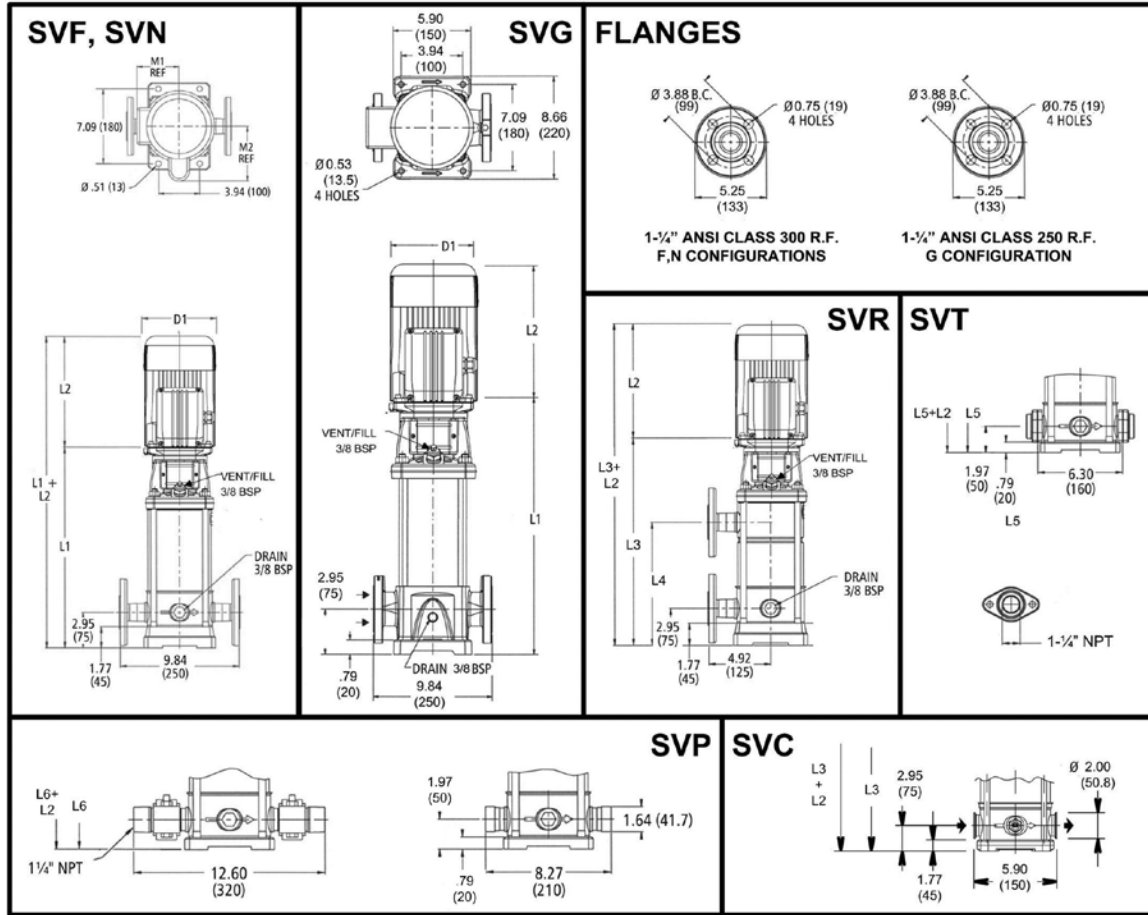
MINIMUM FLOW RATE: 19 m³/hr [82 GPM]



Pump Type Stages	Motor					Dimensions (in)															Weight (lbs.)									
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor				
		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30						ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30	
1SV-02	0.5	56C				13.27	10.79	9.91	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	25	27	29	21	21	52	54	46	46	
1SV-03						13.27	10.79	9.91	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	26	27	29	21	21	53	55	47	47	
1SV-04						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	27	27	29	21	21	54	56	48	48	
1SV-05						14.85	10.79	9.91	9.16	9.29	-	-	13.86	13.86	5.19	6.19	6.19	6.19	6.19	6.19	4.13	28	27	29	21	21	55	57	49	49
1SV-06						15.63	10.79	9.91	9.16	9.29	-	-	14.65	14.65	5.19	6.19	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	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	6.19	4.13	30	27	29	21	21	57	59	51	51
1SV-09						18.00	10.79	9.91	9.16	9.29	18.00	9.72	17.01	17.01	5.19	6.19	6.19	6.19	6.19	6.19	4.13	31	27	29	21	21	58	60	52	52
1SV-10						18.78	10.79	9.91	9.16	9.29	18.78	10.51	17.80	17.80	5.19	6.19	6.19	6.19	6.19	6.19	4.13	32	27	29	21	21	59	61	53	53
1SV-11						19.57	10.79	9.91	9.16	9.29	19.57	11.30	18.59	18.59	5.19	6.19	6.19	6.19	6.19	6.19	4.13	33	27	29	21	21	60	62	54	54
1SV-12						20.36	10.79	9.91	9.16	9.29	20.36	12.09	19.37	19.37	5.19	6.19	6.19	6.19	6.19	6.19	4.13	34	27	29	21	21	61	63	55	55
1SV-13						21.14	10.79	9.91	9.16	9.29	21.14	12.87	20.16	20.16	5.19	6.19	6.19	6.19	6.19	6.19	4.13	35	27	29	21	21	62	64	56	56
1SV-14						21.93	10.79	9.91	9.16	9.29	21.93	13.66	20.95	20.95	5.19	6.19	6.19	6.19	6.19	6.19	4.13	36	27	29	21	21	63	65	57	57
1SV-15						22.72	10.79	9.91	9.16	9.29	22.72	14.45	21.74	21.74	5.19	6.19	6.19	6.19	6.19	6.19	4.13	37	27	29	21	21	64	66	58	58
1SV-16						23.51	10.79	9.91	9.16	9.29	23.51	15.24	22.52	22.52	5.19	6.19	6.19	6.19	6.19	6.19	4.13	38	27	29	21	21	65	67	59	59
1SV-17						24.29	10.79	9.91	9.16	9.29	24.29	16.02	23.31	23.31	5.19	6.19	6.19	6.19	6.19	6.19	4.13	38	27	29	21	21	65	67	59	59
1SV-18						25.08	10.79	9.91	9.16	9.29	25.08	16.81	24.10	24.10	5.19	6.19	6.19	6.19	6.19	6.19	4.13	39	27	29	21	21	66	68	60	60
1SV-19						25.87	10.79	9.91	9.16	9.29	25.87	17.60	24.89	24.89	5.19	6.19	6.19	6.19	6.19	6.19	4.13	40	27	29	21	21	67	69	61	61
1SV-20						26.66	10.79	9.91	9.16	9.29	26.66	18.39	25.67	25.67	5.19	6.19	6.19	6.19	6.19	6.19	4.13	41	27	29	21	21	68	70	62	62
1SV-21						27.44	10.79	9.91	9.16	9.29	27.44	19.17	26.46	26.46	5.19	6.19	6.19	6.19	6.19	6.19	4.13	42	27	29	21	21	69	71	63	63
1SV-22						28.23	10.79	9.91	9.16	9.29	28.23	19.96	27.25	27.25	5.19	6.19	6.19	6.19	6.19	6.19	4.13	43	27	29	21	21	70	72	64	64
1SV-23						29.02	10.79	9.91	9.16	9.29	29.02	20.75	28.03	28.03	5.19	6.19	6.19	6.19	6.19	6.19	4.13	45	27	29	21	21	72	74	66	66
1SV-24						29.81	10.79	9.91	9.16	9.29	29.81	21.54	28.82	28.82	5.19	6.19	6.19	6.19	6.19	6.19	4.13	46	27	29	21	21	73	75	67	67
1SV-25						30.59	10.79	9.91	9.16	9.29	30.59	22.32	29.61	29.61	5.19	6.19	6.19	6.19	6.19	6.19	4.13	47	27	29	21	21	74	76	68	68
1SV-26						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	6.19	4.13	47	27	29	21	21	74	76	68	68
1SV-27						32.17	10.79	9.91	9.16	9.29	32.17	23.90	31.18	31.18	5.19	6.19	6.19	6.19	6.19	6.19	4.13	48	27	29	21	21	75	77	69	69
1SV-28						32.96	10.79	9.91	9.16	9.29	32.96	24.68	31.97	31.97	5.19	6.19	6.19	6.19	6.19	6.19	4.13	49	27	29	21	21	76	78	70	70
1SV-29						34.14	10.79	9.91	9.16	9.29	34.14	25.47	33.15	33.15	5.19	6.19	6.19	6.19	6.19	6.19	4.13	50	27	29	21	21	77	79	71	71
1SV-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	6.19	4.13	51	27	29	21	21	78	80	72	72

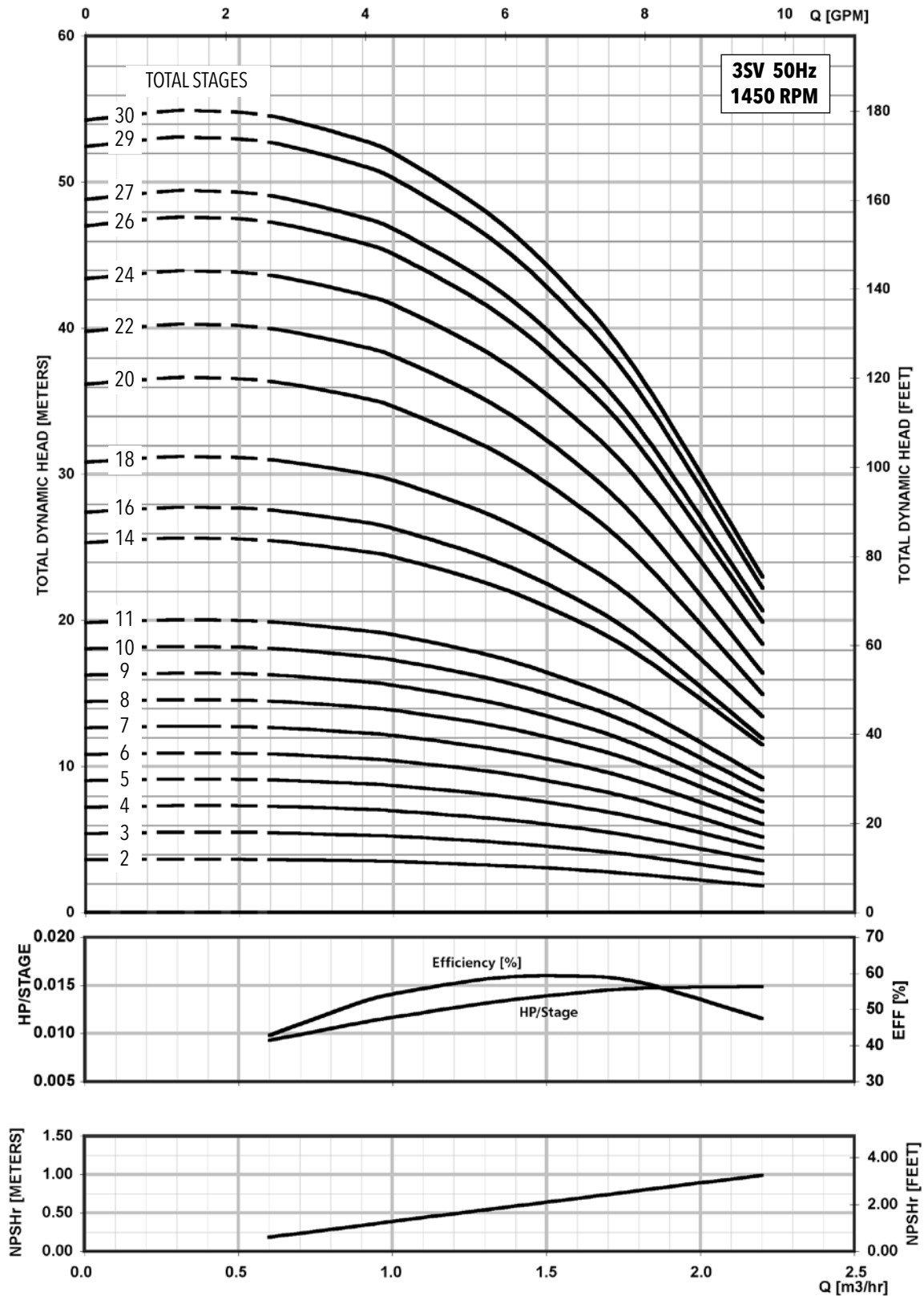


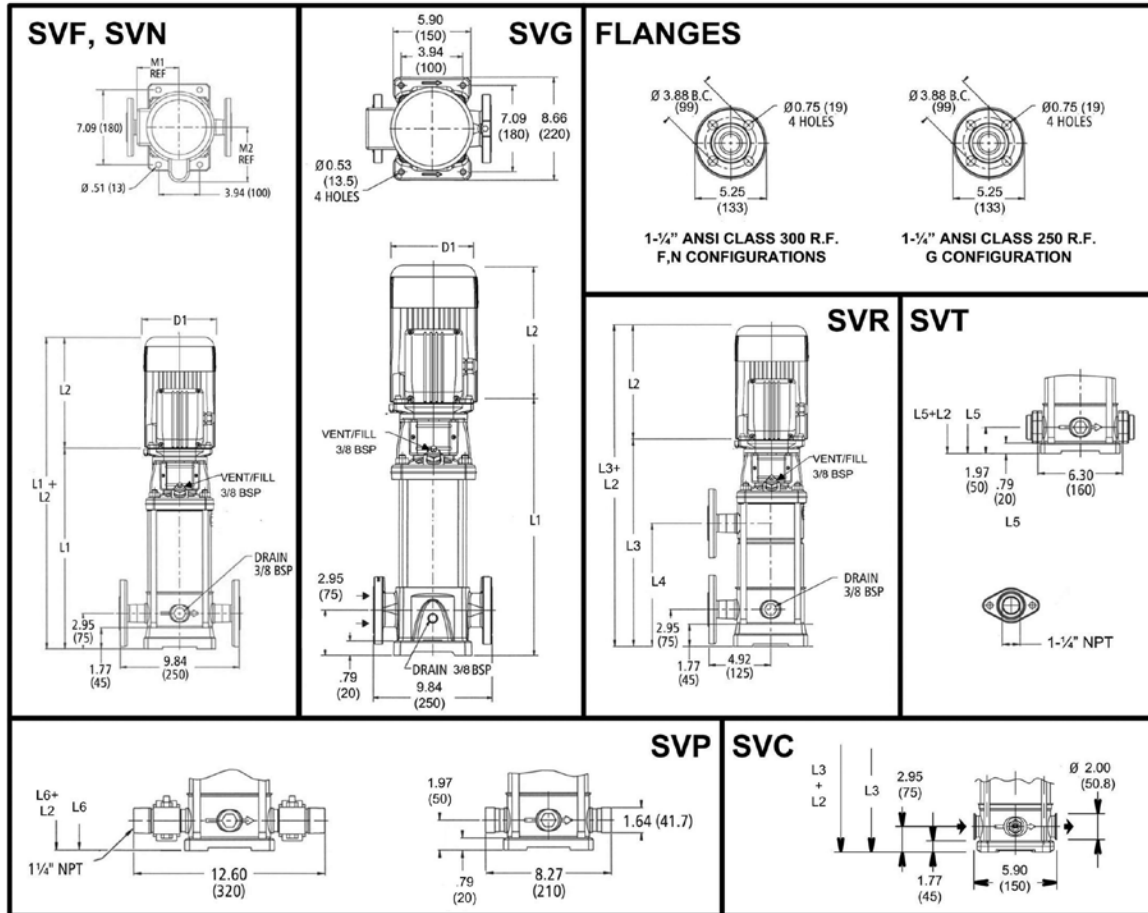
MINIMUM FLOW RATE: .2 m³/hr [1 GPM]



All dimensions are in inches (mm).

Pump Type Stages	Motor					Dimensions (in)														Weight (lbs.)									
	NEMA Frame																			Motor					Pump/Motor				
	HP	ODP 10	TEFC 10	ODP 30	TEFC 30	L1	ODP 10	TEFC 10	ODP 30	TEFC 30	L3	L4	L5	L6	M (Ref.)	ODP 10	TEFC 10	ODP 30	TEFC 30	D2	Pump	ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30
3SV-02	0.5	56C				13.27	10.79	9.91	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	24	27	29	21	21	51	53	45	45
3SV-03						13.27	10.79	9.91	9.16	9.29	-	-	12.29	12.29	5.19	6.19	6.19	6.19	6.19	4.13	25	27	29	21	21	52	54	46	46
3SV-04						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						14.85	10.79	9.91	9.16	9.29	-	-	13.86	13.86	5.19	6.19	6.19	6.19	6.19	4.13	27	27	29	21	21	54	56	48	48
3SV-06						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
3SV-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	30	27	29	21	21	57	59	51	51
3SV-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	31	27	29	21	21	58	60	52	52
3SV-09						18.00	10.79	9.91	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	27	29	21	21	59	61	53	53
3SV-10						18.78	10.79	9.91	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	27	29	21	21	60	62	54	54
3SV-11						19.57	10.79	9.91	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	27	29	21	21	61	63	55	55
3SV-12						20.36	10.79	9.91	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	27	29	21	21	62	64	56	56
3SV-13						21.14	10.79	9.91	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	27	29	21	21	63	65	57	57
3SV-14						21.93	10.79	9.91	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	27	29	21	21	64	66	58	58
3SV-15						22.72	10.79	9.91	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	27	29	21	21	65	67	59	59
3SV-16						23.51	10.79	9.91	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	27	29	21	21	66	68	60	60
3SV-17						24.29	10.79	9.91	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	27	29	21	21	67	69	61	61
3SV-18						25.08	10.79	9.91	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	27	29	21	21	68	70	62	62
3SV-19						25.87	10.79	9.91	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	27	29	21	21	68	70	62	62
3SV-20						26.66	10.79	9.91	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	27	29	21	21	69	71	63	63
3SV-21						27.44	10.79	9.91	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	27	29	21	21	70	72	64	64
3SV-22						28.23	10.79	9.91	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	27	29	21	21	71	73	65	65
3SV-23						29.02	10.79	9.91	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	27	29	21	21	72	74	66	66
3SV-24						29.81	10.79	9.91	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	27	29	21	21	73	75	67	67
3SV-25						30.59	10.79	9.91	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	27	29	21	21	74	76	68	68
3SV-26						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





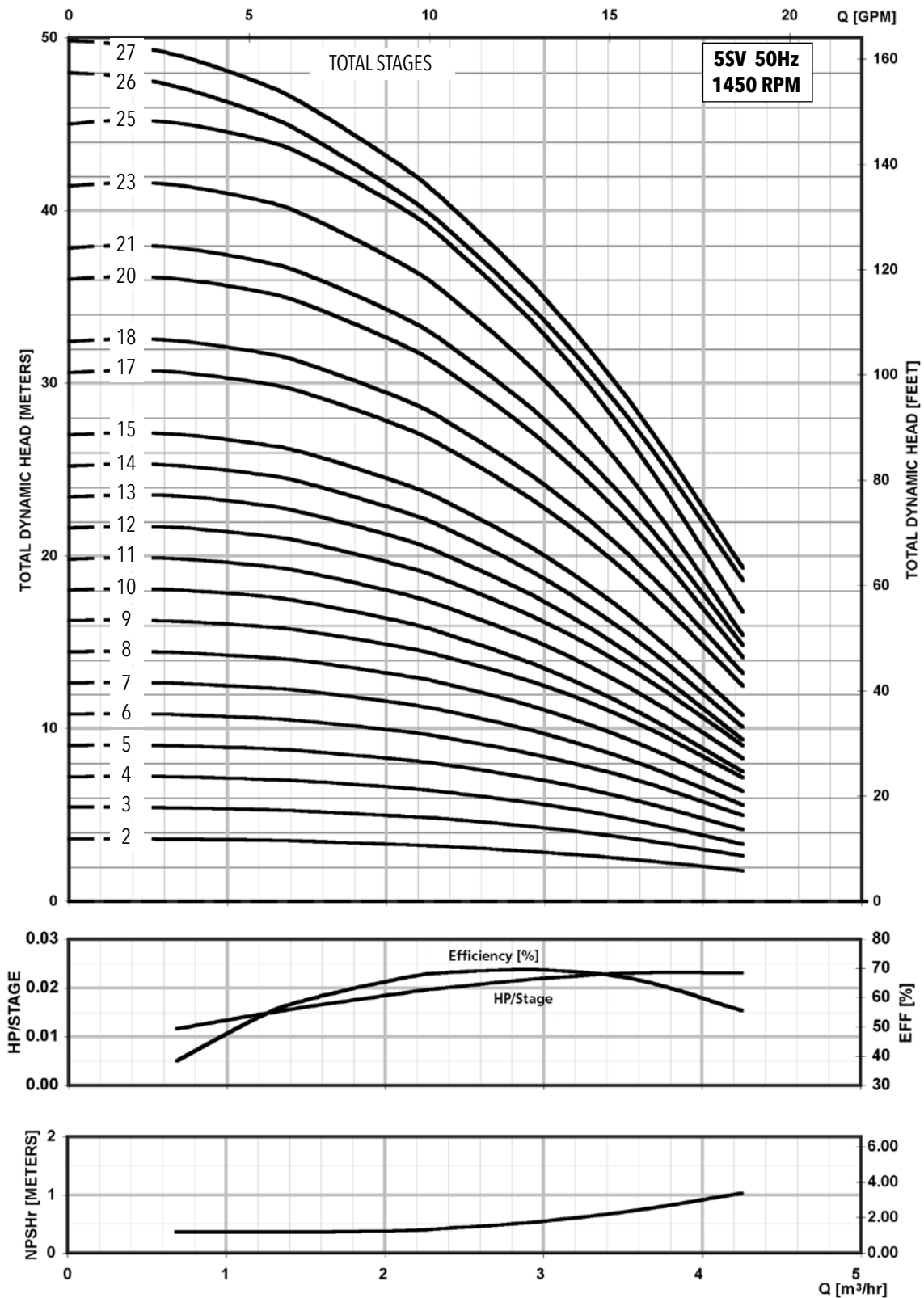
All dimensions are in inches (mm).

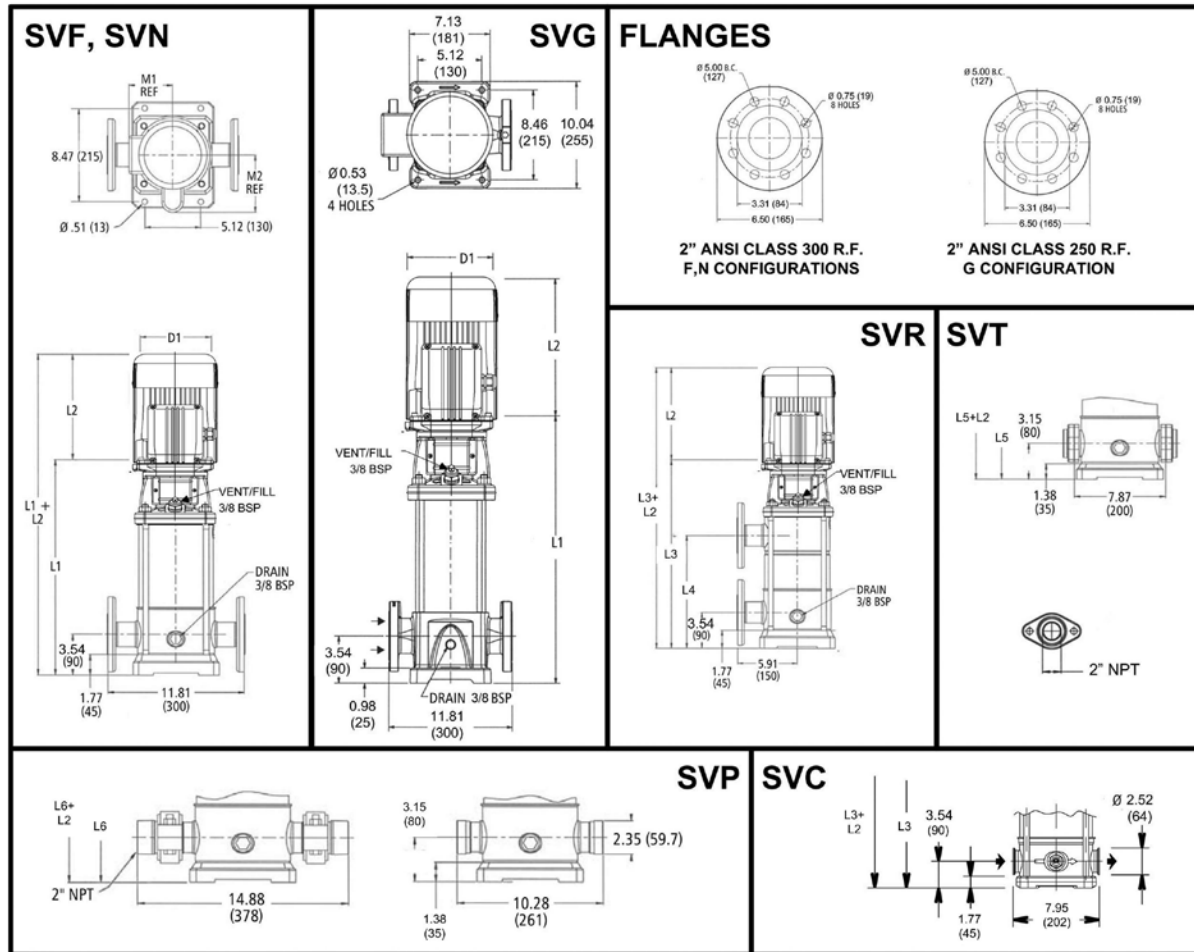
Pump Type Stages	Motor					Dimensions (in)														Weight (lbs.)									
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
5SV-02	0.5	56C				13.86	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						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	26	27	29	21	21	53	55	47	47
5SV-04						14.85	10.79	9.91	9.16	9.29	-	-	13.86	13.86	5.19	6.19	6.19	6.19	6.19	4.13	28	27	29	21	21	55	57	49	49
5SV-05						15.83	10.79	9.91	9.16	9.29	-	-	14.85	14.85	5.19	6.19	6.19	6.19	6.19	4.13	29	27	29	21	21	56	58	50	50
5SV-06						16.81	10.79	9.91	9.16	9.29	-	-	15.83	15.83	5.19	6.19	6.19	6.19	6.19	4.13	30	27	29	21	21	57	59	51	51
5SV-07						17.80	10.79	9.91	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	27	29	21	21	58	60	52	52
5SV-08						18.78	10.79	9.91	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	27	29	21	21	60	62	54	54
5SV-09						19.77	10.79	9.91	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	27	29	21	21	60	62	54	54
5SV-10						20.75	10.79	9.91	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	27	29	21	21	61	63	55	55
5SV-11						21.74	10.79	9.91	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	27	29	21	21	62	64	56	56
5SV-12						22.72	10.79	9.91	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	27	29	21	21	63	65	57	57
5SV-13						23.70	10.79	9.91	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	27	29	21	21	65	67	59	59
5SV-14						24.69	10.79	9.91	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	27	29	21	21	65	67	59	59
5SV-15						25.67	10.79	9.91	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	27	29	21	21	66	68	60	60
5SV-16						26.66	10.79	9.91	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	27	29	21	21	68	70	62	62
5SV-17						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						35.51	10.79	9.91	9.16	9.29	35.51	27.24	34.53	34.53	5.19	6.19	6.19	6.19	6.19	4.13	51	27	29	21	21	78	80	72	72
5SV-26						36.58	10.79	9.91	9.16	9.29	36.58	28.23	35.59	35.59	5.19	6.19	6.19	6.19	6.19	4.13	52	27	29	21	21	79	81	73	73
5SV-27						37.56	10.79	9.91	9.16	9.29	37.56	29.21	36.58	36.58	5.19	6.19	6.19	6.19	6.19	4.13	53	27	29	21	21	80	82	74	74

Performance Curve

5SV 1450 RPM

50 Hz





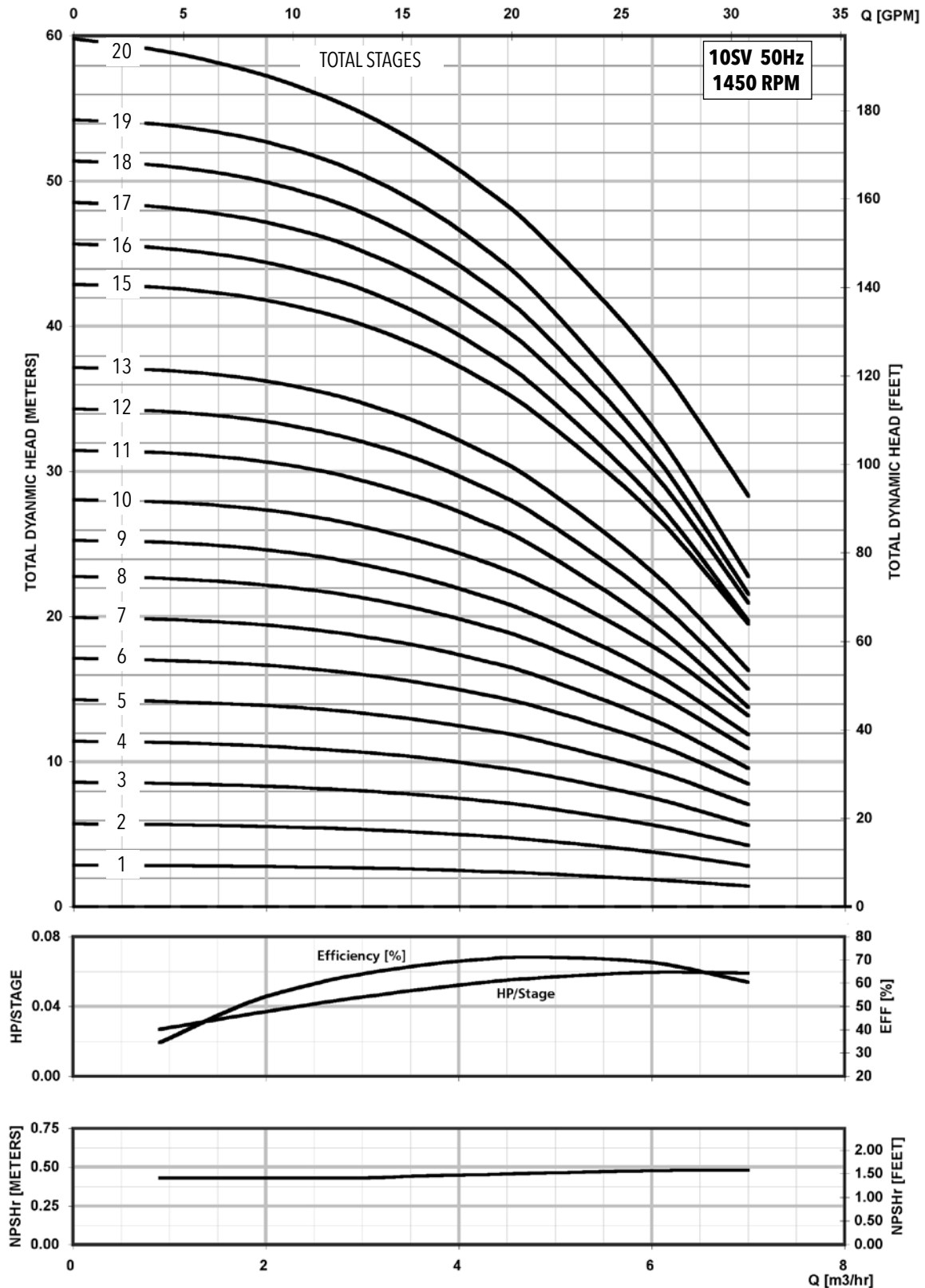
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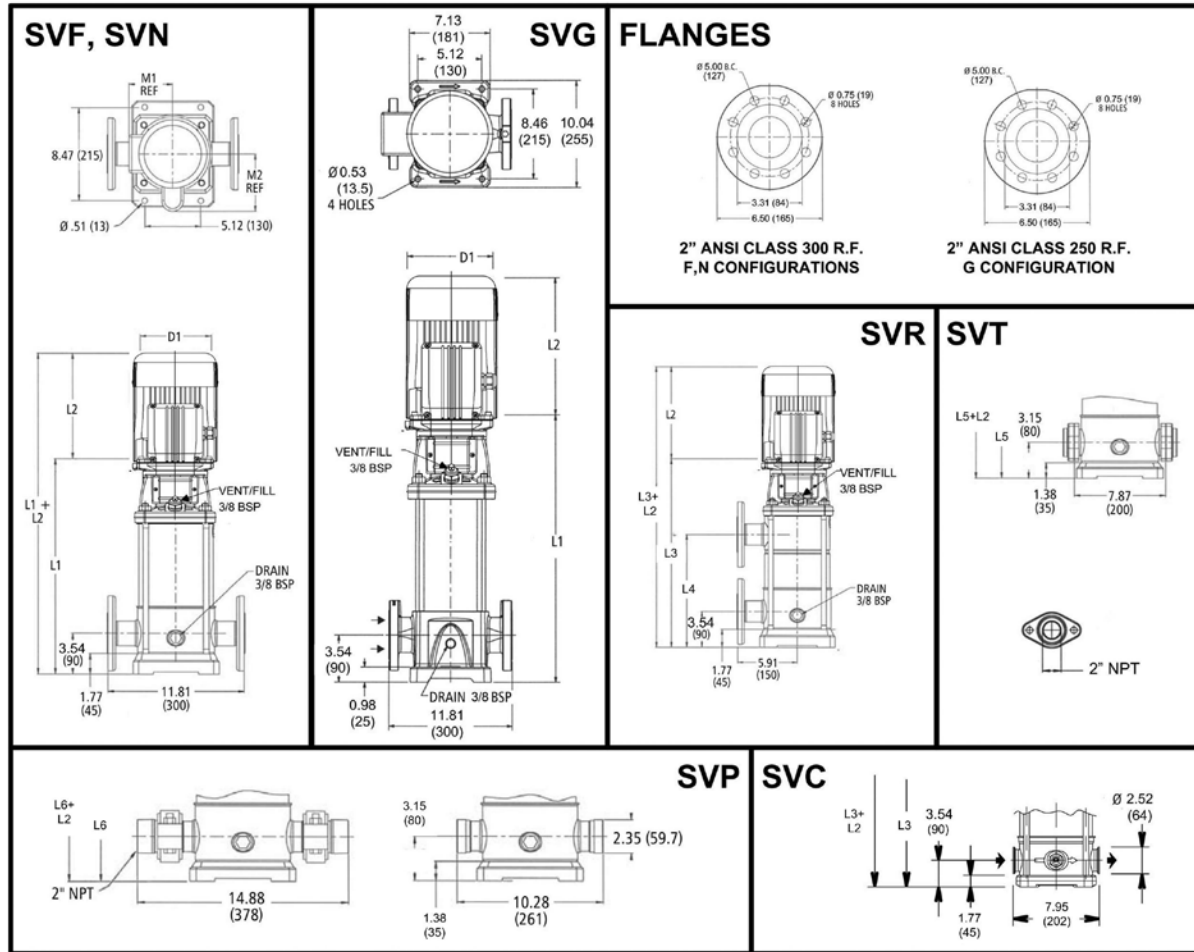
Pump Type Stages	Motor					Dimensions (in)															Weight (lbs.)									
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor				
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	
10SV-01	0.5	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			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	38	27	29	21	21	65	67	59	59				
10SV-03			17.82	10.79	9.91	9.16	9.29	-	-	17.43	17.43	5.19	6.19	6.19	6.19	6.19	4.13	40	27	29	21	21	67	69	61	61				
10SV-04			19.08	10.79	9.91	9.16	9.29	-	-	18.69	18.69	5.19	6.19	6.19	6.19	6.19	4.13	43	27	29	21	21	70	72	64	64				
10SV-05			20.34	10.79	9.91	9.16	9.29	20.34	10.20	19.95	19.95	5.19	6.19	6.19	6.19	6.19	4.13	45	27	29	21	21	72	74	66	66				
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			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			25.38	10.79	9.91	9.16	9.29	25.38	15.24	24.98	24.98	5.19	6.19	6.19	6.19	6.19	4.13	53	27	29	21	21	80	82	74	74				
10SV-10			26.64	10.79	9.91	9.16	9.29	26.64	16.50	26.24	26.24	5.19	6.19	6.19	6.19	6.19	4.13	56	27	29	21	21	83	85	77	77				
10SV-11	0.75		27.90	10.66	11.19	9.16	9.29	27.90	17.76	27.50	27.50	5.74	6.2	7.19	6.19	6.19	4.13	58	32	40	23	23	90	98	81	81				
10SV-12			28.37	10.66	11.19	9.16	9.29	28.37	19.02	27.98	27.98	5.74	6.2	7.19	6.19	6.19	4.13	60	32	40	23	23	92	100	83	83				
10SV-13			30.44	10.66	11.19	9.16	9.29	30.44	20.28	30.04	30.04	5.74	6.2	7.19	6.19	6.19	4.13	65	32	40	23	23	97	105	88	88				
10SV-14			31.78	10.66	11.19	9.16	9.29	31.78	21.54	31.38	31.38	5.74	6.2	7.19	6.19	6.19	4.13	67	32	40	23	23	99	107	90	90				
10SV-15			1	32.96	10.67	11.19	10.66	9.91	32.96	22.80	32.56	32.56	5.74	6.2	7.19	6.2	6.19	4.72	69	32	40	30	28	101	109	99	97			
10SV-16				34.22	10.67	11.19	10.66	9.91	34.22	24.06	33.82	33.82	5.74	6.2	7.19	6.2	6.19	4.72	71	32	40	30	28	103	111	101	99			
10SV-17				35.48	10.67	11.19	10.66	9.91	35.48	25.31	35.08	35.08	5.74	6.2	7.19	6.2	6.19	4.72	73	32	40	30	28	105	113	103	101			
10SV-18				36.74	10.67	11.19	10.66	9.91	36.74	26.57	36.34	36.34	5.74	6.2	7.19	6.2	6.19	4.72	75	32	40	30	28	107	115	105	103			
10SV-19				38.08	10.67	11.19	10.66	9.91	38.08	27.83	37.68	37.68	5.74	6.2	7.19	6.2	6.19	4.72	77	32	40	30	28	109	117	107	105			
10SV-20			1.5	39.26	11.18	12.06	11.16	10.79	39.26	29.09	38.86	38.86	5.74	7.19	7.19	6.2	6.19	4.72	79	43	51	32	33	122	130	111	112			

Performance Curve

10SV 1450 RPM

50 Hz





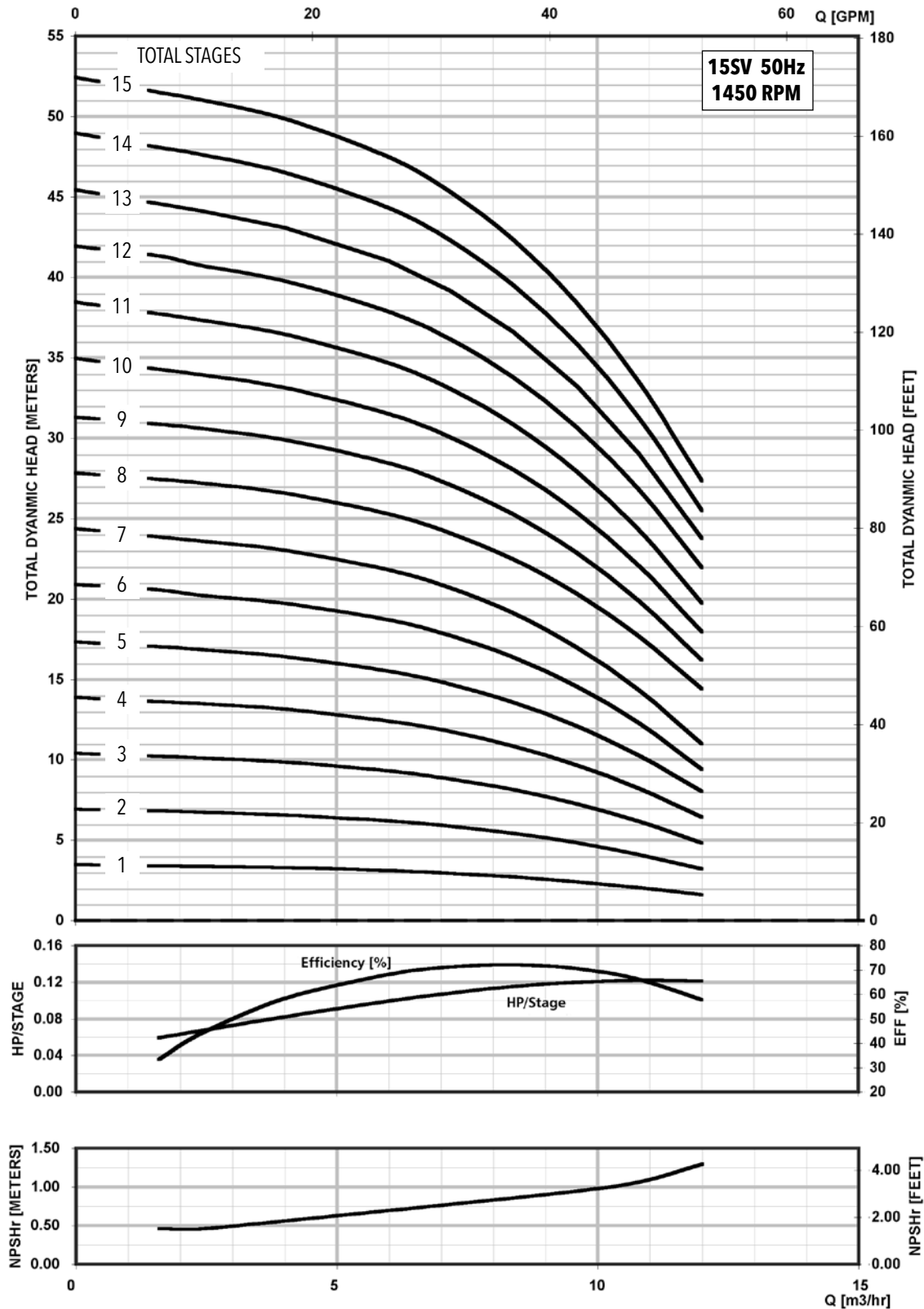
All dimensions are in inches (mm).

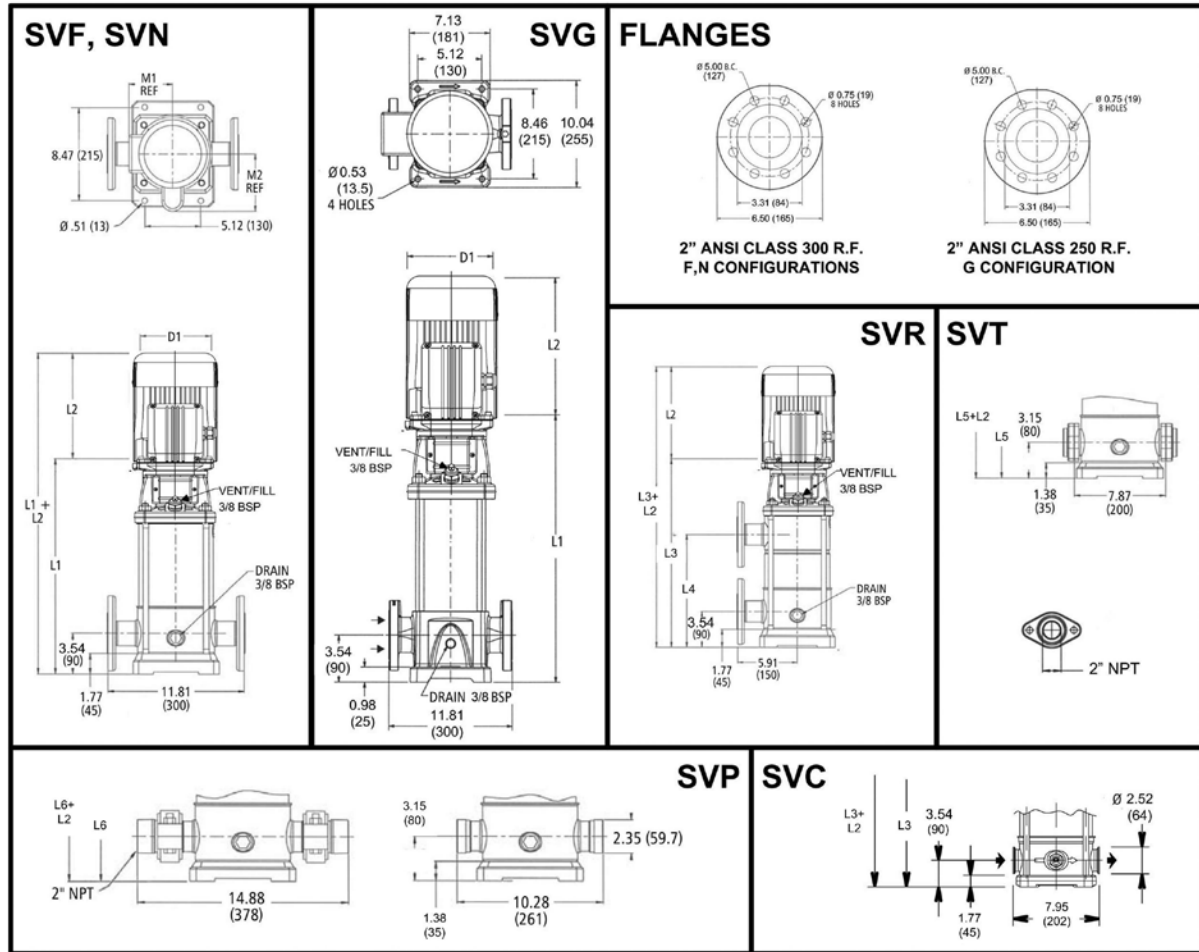
Pump Type	HP	Motor				Dimensions (in)															Weight (lbs.)								
		NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
15SV-01	0.5	56C				18.21	10.79	9.91	9.16	9.29	-	-	17.82	17.82	5.19	6.19	6.19	6.19	6.19	4.13	37	27	29	21	21	64	66	58	58
15SV-02						18.21	10.79	9.91	9.16	9.29	-	-	17.82	17.82	5.19	6.19	6.19	6.19	6.19	4.13	41	27	29	21	21	68	70	62	62
15SV-03						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						21.99	10.79	9.91	9.16	9.29	21.99	11.85	21.60	21.60	5.19	6.19	6.19	6.19	6.19	4.13	47	27	29	21	21	74	76	68	68
15SV-05	0.75					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						25.79	10.66	11.19	9.16	9.29	25.79	15.63	25.40	25.40	5.74	6.19	7.19	6.19	6.19	4.13	56	32	40	23	23	88	96	79	79
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						29.57	10.67	11.19	10.66	9.91	29.57	19.41	29.18	29.18	5.74	6.19	7.19	6.19	6.19	4.72	61	32	40	30	28	93	101	91	89
15SV-09	1					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						33.35	11.18	12.06	11.16	10.79	33.35	23.19	32.96	32.96	5.74	7.19	7.19	6.19	6.19	4.72	68	43	51	32	33	111	119	100	101
15SV-11						35.24	11.18	12.06	11.16	10.79	35.24	25.08	34.85	34.85	5.74	7.19	7.19	6.19	6.19	4.72	71	43	51	32	33	114	122	103	104
15SV-12						37.13	11.18	12.06	11.16	10.79	37.13	26.97	36.74	36.74	5.74	7.19	7.19	6.19	6.19	4.72	74	43	51	32	33	117	125	106	107
15SV-13	1.5					39.02	11.18	12.06	11.16	10.79	39.02	28.86	38.63	38.63	5.74	7.19	7.19	6.19	6.19	4.72	77	43	51	32	33	120	128	109	110
15SV-14						40.91	11.57	13.44	11.18	11.16	40.91	30.75	40.52	40.52	5.75	6.5	7.19	7.16	7.19	5.51	80	49	64	41	44	129	144	121	124
15SV-15						42.80	11.57	13.44	11.18	11.16	42.80	32.64	42.41	42.41	5.75	6.5	7.19	7.16	7.19	5.51	83	49	64	41	44	132	147	124	127

Performance Curve

15SV 1450 RPM

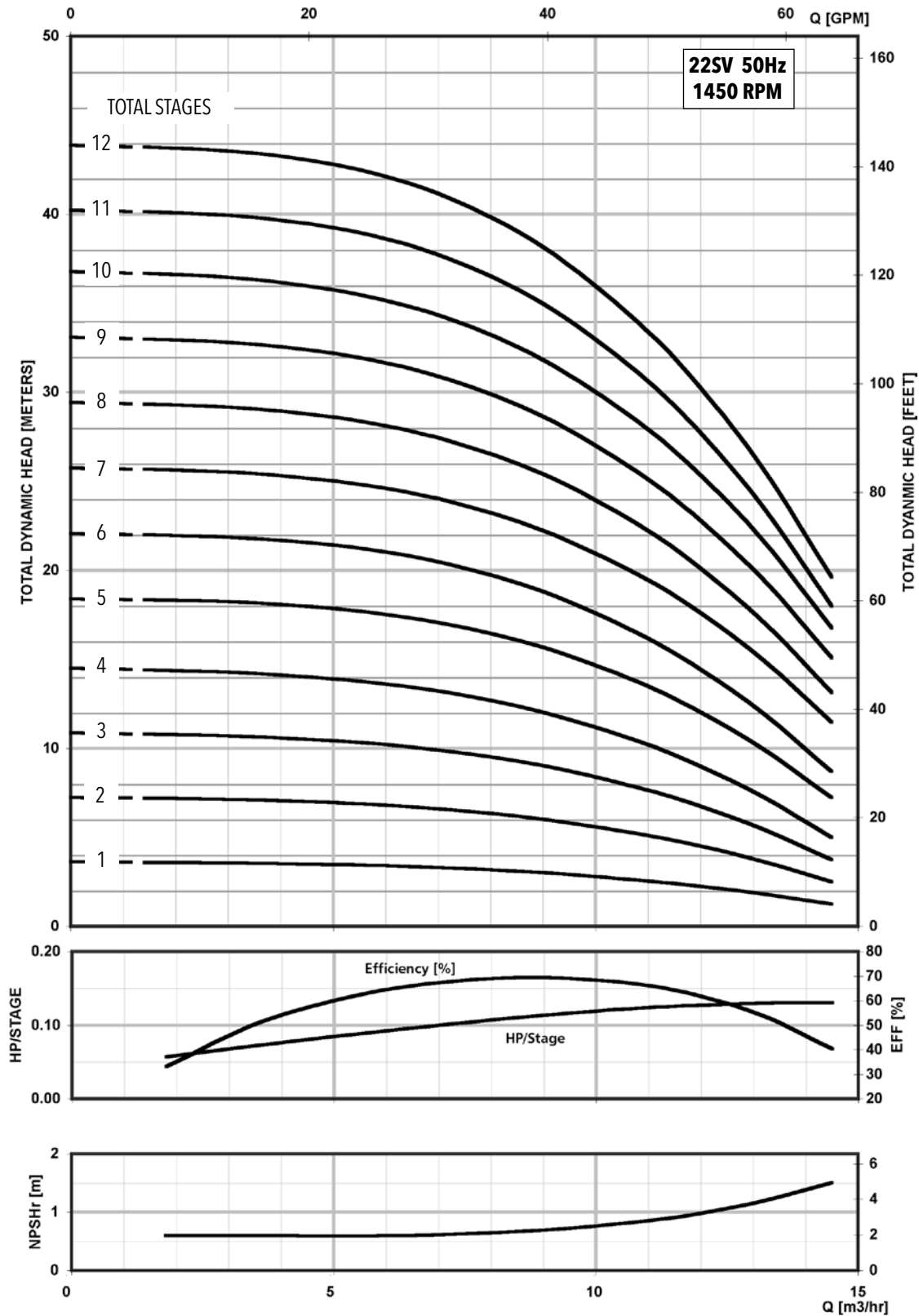
50 Hz





All dimensions are in inches (mm).

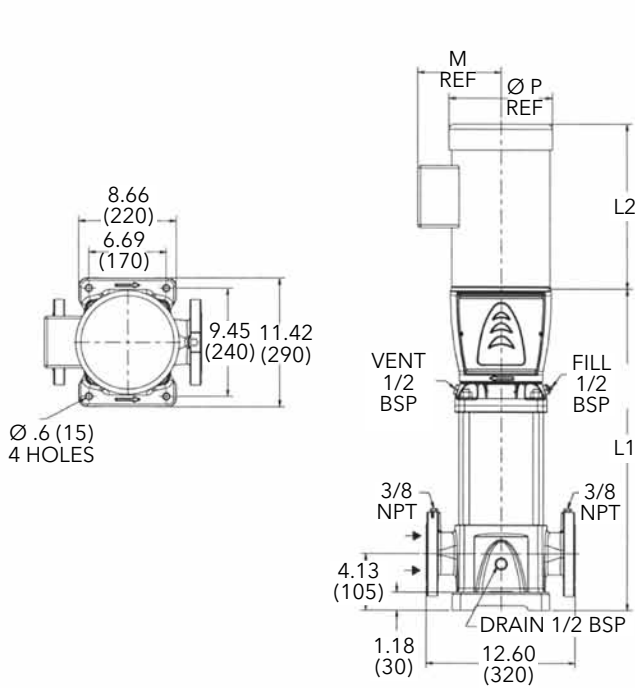
Pump Type Stages	Motor					Dimensions (in)															Weight (lbs.)									
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)					D2	Pump	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø			TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	
22SV-01	0.5	56C				18.21	10.79	9.91	9.16	9.29	-	-	17.82	17.82	5.19	6.19	6.19	6.19	6.19	4.13	38	27	29	21	21	65	67	59	59	
22SV-02						18.21	10.79	9.91	9.16	9.29	-	-	17.82	17.82	5.19	6.19	6.19	6.19	6.19	4.13	42	27	29	21	21	69	71	63	63	
22SV-03						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						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	48	32	40	23	23	80	88	71	71	
22SV-05	0.75					23.90	10.66	11.19	9.16	9.29	23.90	13.74	23.51	23.51	5.74	6.19	7.19	6.19	6.19	4.13	51	32	40	23	23	83	91	74	74	
22SV-06						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	54	32	40	30	28	86	94	84	82	
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	1.5					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	60	43	51	32	33	103	111	92	93	
22SV-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	62	43	51	32	33	105	113	94	95	
22SV-10						33.35	11.18	12.06	11.16	10.79	33.35	23.19	32.96	32.96	5.74	7.19	7.19	6.19	6.19	4.72	66	43	51	32	33	109	117	98	99	
22SV-11						35.24	11.57	13.44	11.18	11.16	35.24	25.08	34.85	34.85	5.75	6.5	7.19	7.16	7.19	5.51	69	49	64	41	44	118	133	110	113	
22SV-12	2					37.13	11.57	13.44	11.18	11.16	37.13	26.97	36.74	36.74	5.75	6.5	7.19	7.16	7.19	5.51	72	49	64	41	44	121	136	113	116	



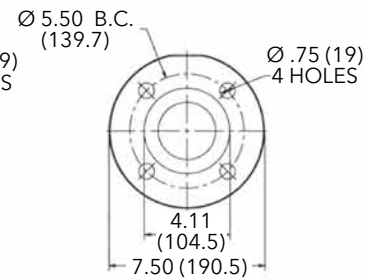
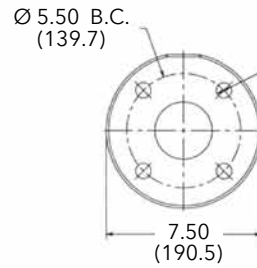
Dimensions and Weights

33SV Series 1450 RPM

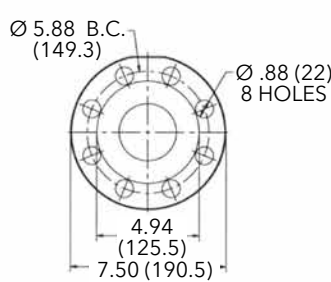
50 Hz



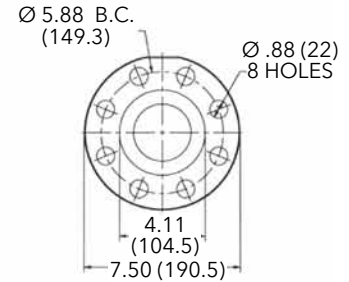
All dimensions are in inches (mm).



316SS
2 1/2" Class 150 R.F.



Cast Iron
2 1/2" Class 250 R.F.



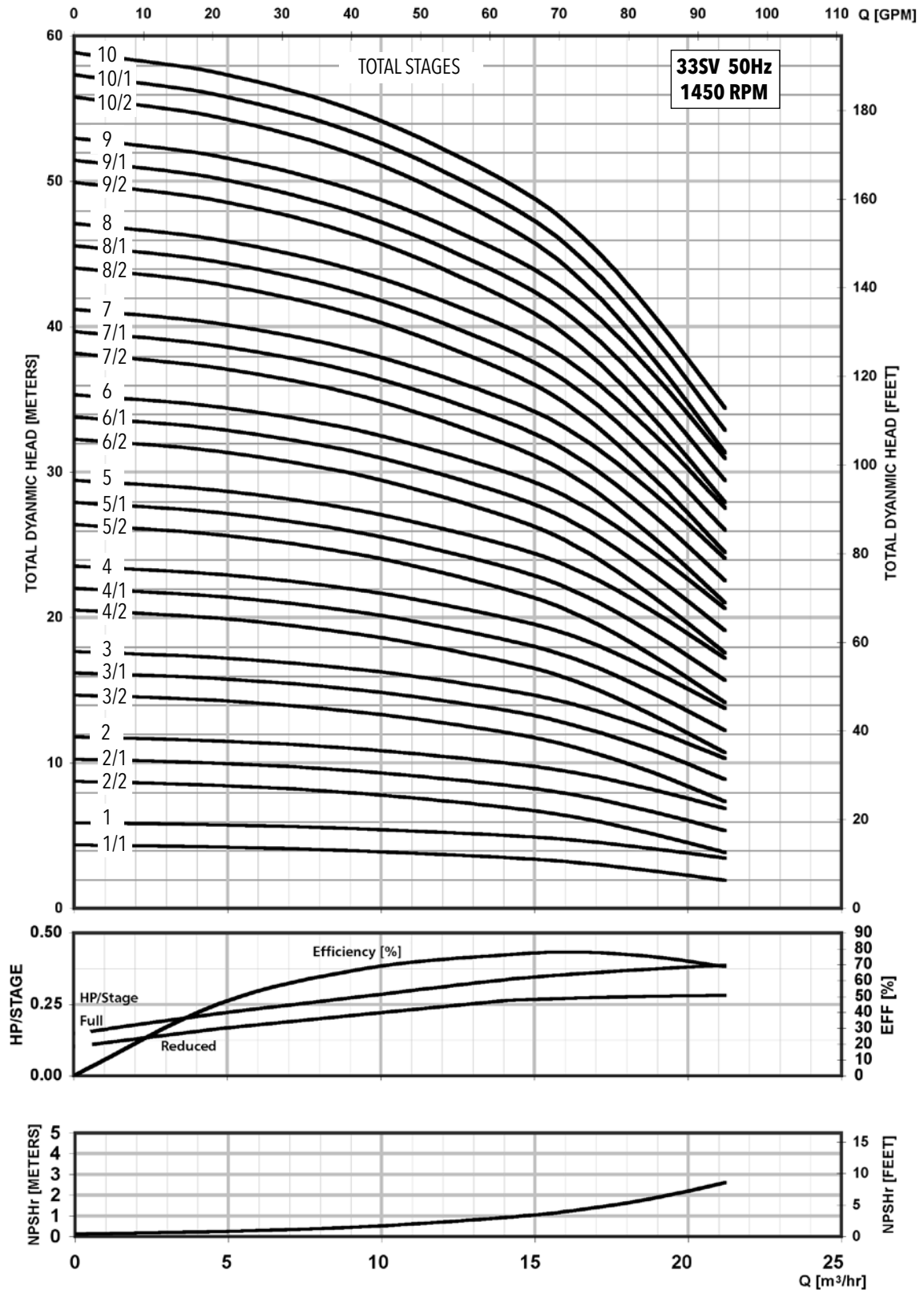
316SS
2 1/2" Class 300 R.F.

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		ØD 1Ø	TEFC 1Ø	ØD 3Ø	TEFC 3Ø		ØD 1Ø	TEFC 1Ø	ØD 3Ø	TEFC 3Ø			ØD 1Ø	TEFC 1Ø	ØD 3Ø	TEFC 3Ø	ØD 1Ø	TEFC 1Ø	ØD 3Ø	TEFC 3Ø
33SV-1	3	182TC	184TC	20.62	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	132	81	92	62	69	213	224	194	201		
33SV-2/2				23.58	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	143	81	92	62	69	224	235	205	212		
33SV-2/1				23.58	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	143	81	92	62	69	224	235	205	212		
33SV-2				23.58	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	143	81	92	62	69	224	235	205	212		
33SV-3/2				26.54	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	152	81	92	62	69	233	244	214	221		
33SV-3/1				26.54	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	152	81	92	62	69	233	244	214	221		
33SV-3				26.54	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	152	81	92	62	69	233	244	214	221		
33SV-4/2				29.50	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	161	81	92	62	69	242	253	223	230		
33SV-4/1				29.50	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	161	81	92	62	69	242	253	223	230		
33SV-4				29.50	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	161	81	92	62	69	242	253	223	230		
33SV-5/2				32.44	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	172	81	92	62	69	253	264	234	241		
33SV-5/1				32.44	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	172	81	92	62	69	253	264	234	241		
33SV-5				32.44	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	172	81	92	62	69	253	264	234	241		
33SV-6/2				35.40	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	194	81	92	62	69	275	286	256	263		
33SV-6/1				35.40	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	194	81	92	62	69	275	286	256	263		
33SV-6				35.40	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	194	81	92	62	69	275	286	256	263		
33SV-7/2				38.35	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	204	81	92	62	69	285	296	266	273		
33SV-7/1				38.35	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	204	81	92	62	69	285	296	266	273		
33SV-7				38.35	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	204	81	92	62	69	285	296	266	273		
33SV-8/2				41.30	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	221	81	92	62	69	302	313	283	290		
33SV-8/1				41.30	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	221	81	92	62	69	302	313	283	290		
33SV-8				41.30	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	221	81	92	62	69	302	313	283	290		
33SV-9/2	44.25			13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	230	81	92	62	69	311	322	292	299			
33SV-9/1	44.25			13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	230	81	92	62	69	311	322	292	299			
33SV-9	44.25			13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	230	81	92	62	69	311	322	292	299			
33SV-10/2	5					47.20	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	249	100	120	75	85	349	369	324	334
33SV-10/1						47.20	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	249	100	120	75	85	349	369	324	334
33SV-10						47.20	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	249	100	120	75	85	349	369	324	334

Performance Curve

33SV 1450 RPM

50 Hz

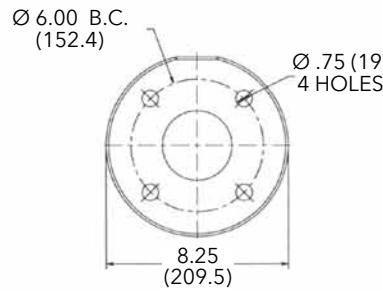
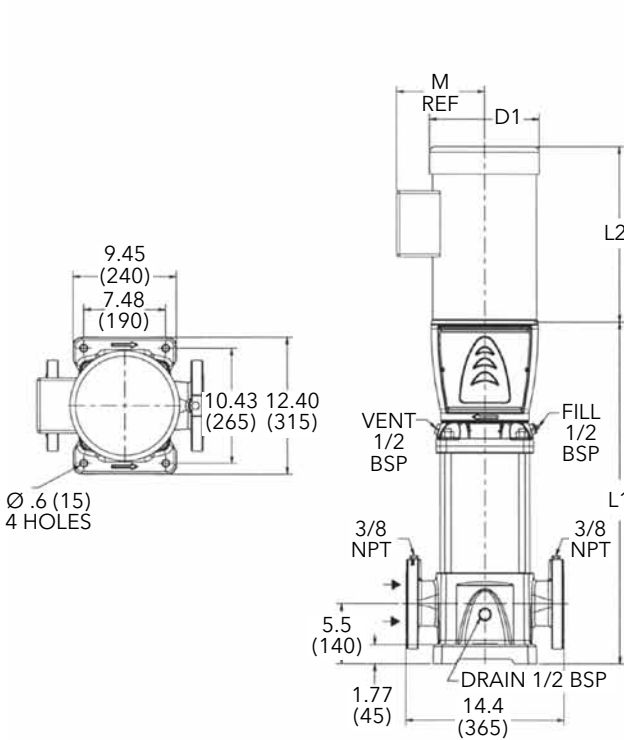


MINIMUM FLOW RATE: 0.9 m³/hr [4 GPM]

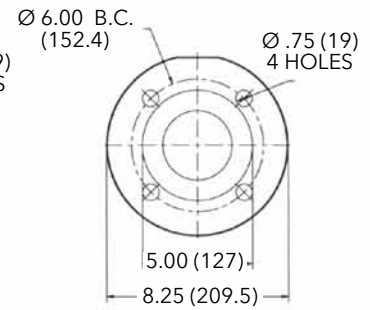
Dimensions and Weights

46SV Series 1450 RPM

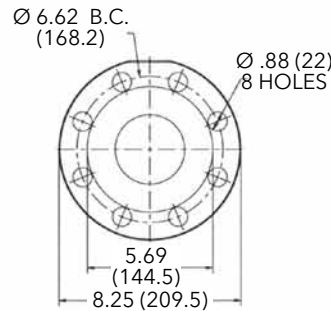
50 Hz



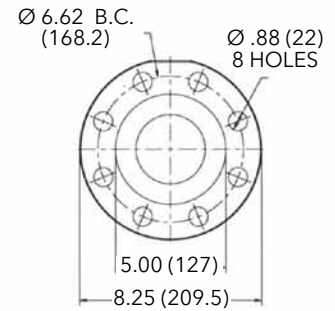
Cast Iron
3" Class 125 F.F.



316SS
3" Class 150 R.F.



Cast Iron
3" Class 250 R.F.



316SS
3" Class 300 R.F.

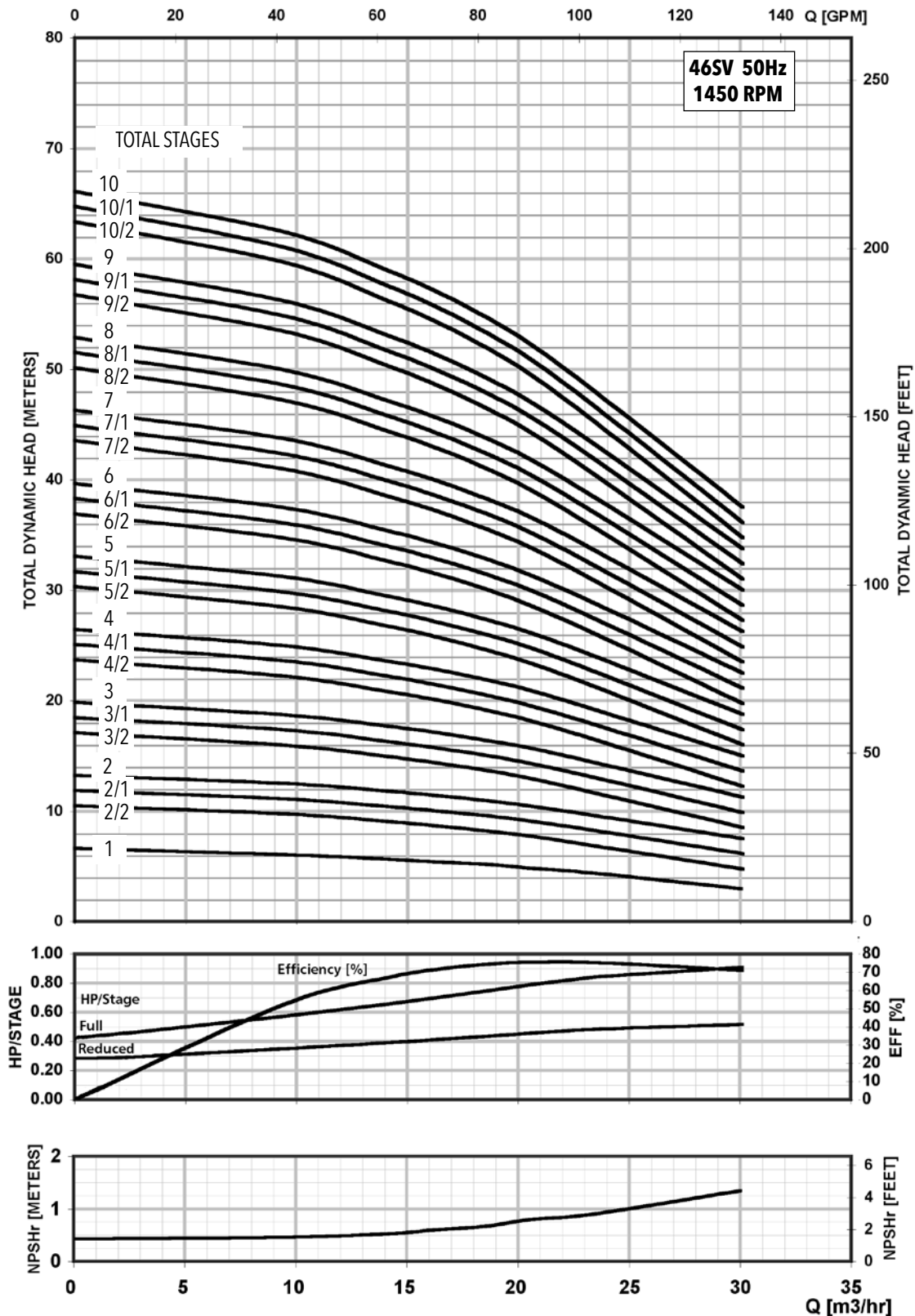
All dimensions are in inches (mm).

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
46SV-1	3	182TC	184TC		22.19	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	147	81	92	62	69	228	239	209	216	
46SV-2/2				25.19	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	158	81	92	62	69	239	250	220	227		
46SV-2/1				25.19	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	158	81	92	62	69	239	250	220	227		
46SV-2				25.19	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	158	81	92	62	69	239	250	220	227		
46SV-3/2				28.12	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	169	81	92	62	69	250	261	231	238		
46SV-3/1				28.12	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	169	81	92	62	69	250	261	231	238		
46SV-3				28.12	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	169	81	92	62	69	250	261	231	238		
46SV-4/2				32.63	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	185	81	92	62	69	266	277	247	254		
46SV-4/1				32.63	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	185	81	92	62	69	266	277	247	254		
46SV-4				32.63	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	185	81	92	62	69	266	277	247	254		
46SV-5/2				35.56	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	199	81	92	62	69	280	291	261	268		
46SV-5/1				35.56	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	199	81	92	62	69	280	291	261	268		
46SV-5	35.56			13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	199	81	92	62	69	280	291	261	268			
46SV-6/2	5				38.50	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	208	100	120	75	85	308	328	283	293	
46SV-6/1					38.50	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	208	100	120	75	85	308	328	283	293	
46SV-6					38.50	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	208	100	120	75	85	308	328	283	293	
46SV-7/2					40.94	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	225	100	120	75	85	325	345	300	310	
46SV-7/1					40.94	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	225	100	120	75	85	325	345	300	310	
46SV-7					40.94	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	225	100	120	75	85	325	345	300	310	
46SV-8/2					43.94	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	234	100	120	75	85	334	354	309	319	
46SV-8/1					43.94	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	234	100	120	75	85	334	354	309	319	
46SV-8					43.94	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	234	100	120	75	85	334	354	309	319	
46SV-9/2					46.88	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	253	100	120	75	85	353	373	328	338	
46SV-9/1					46.88	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	253	100	120	75	85	353	373	328	338	
46SV-9					46.88	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	253	100	120	75	85	353	373	328	338	
46SV-10/2				49.81	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	264	100	120	75	85	364	384	339	349		

Performance Curve

46SV 1450 RPM

50 Hz

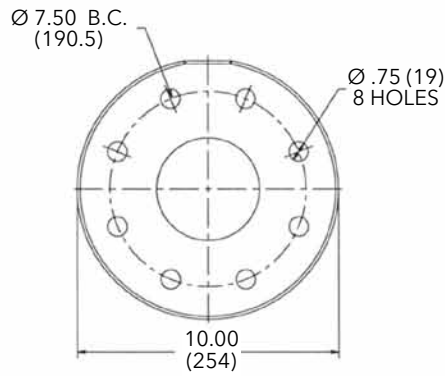
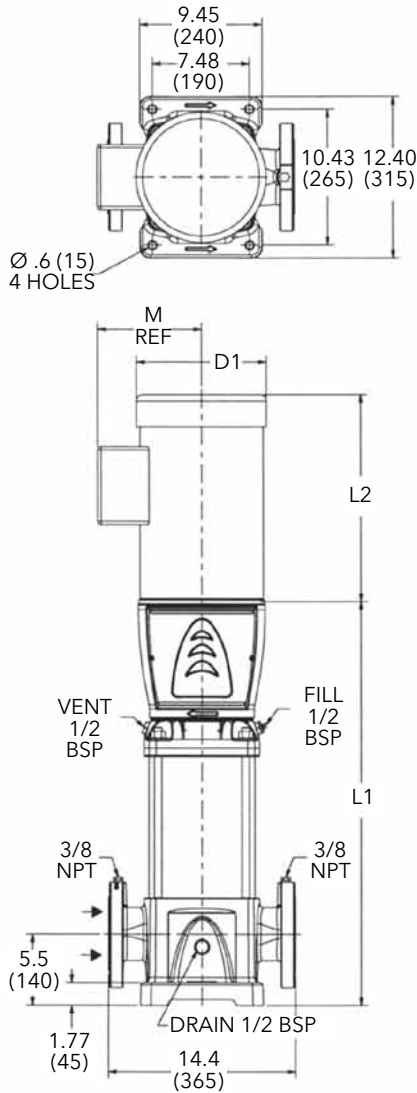


MINIMUM FLOW RATE: 1.1 m³/hr [5 GPM]

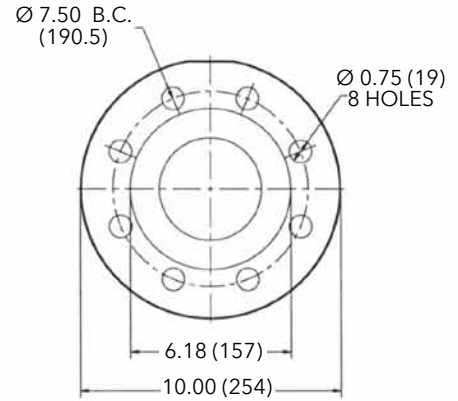
Dimensions and Weights

66SV Series 1450 RPM

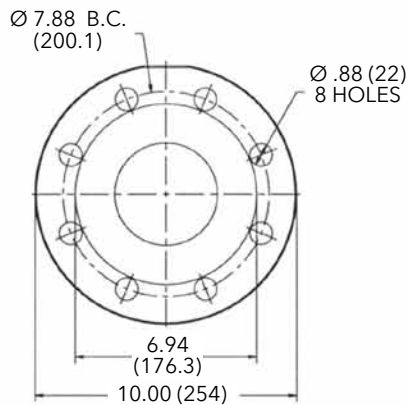
50 Hz



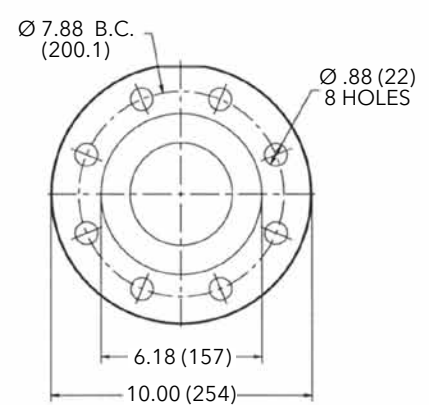
**Cast Iron
4" Class 125 F.F.**



**316SS
4" Class 150 R.F.**



**Cast Iron
4" Class 250 R.F.**



**316SS
4" Class 300 R.F.**

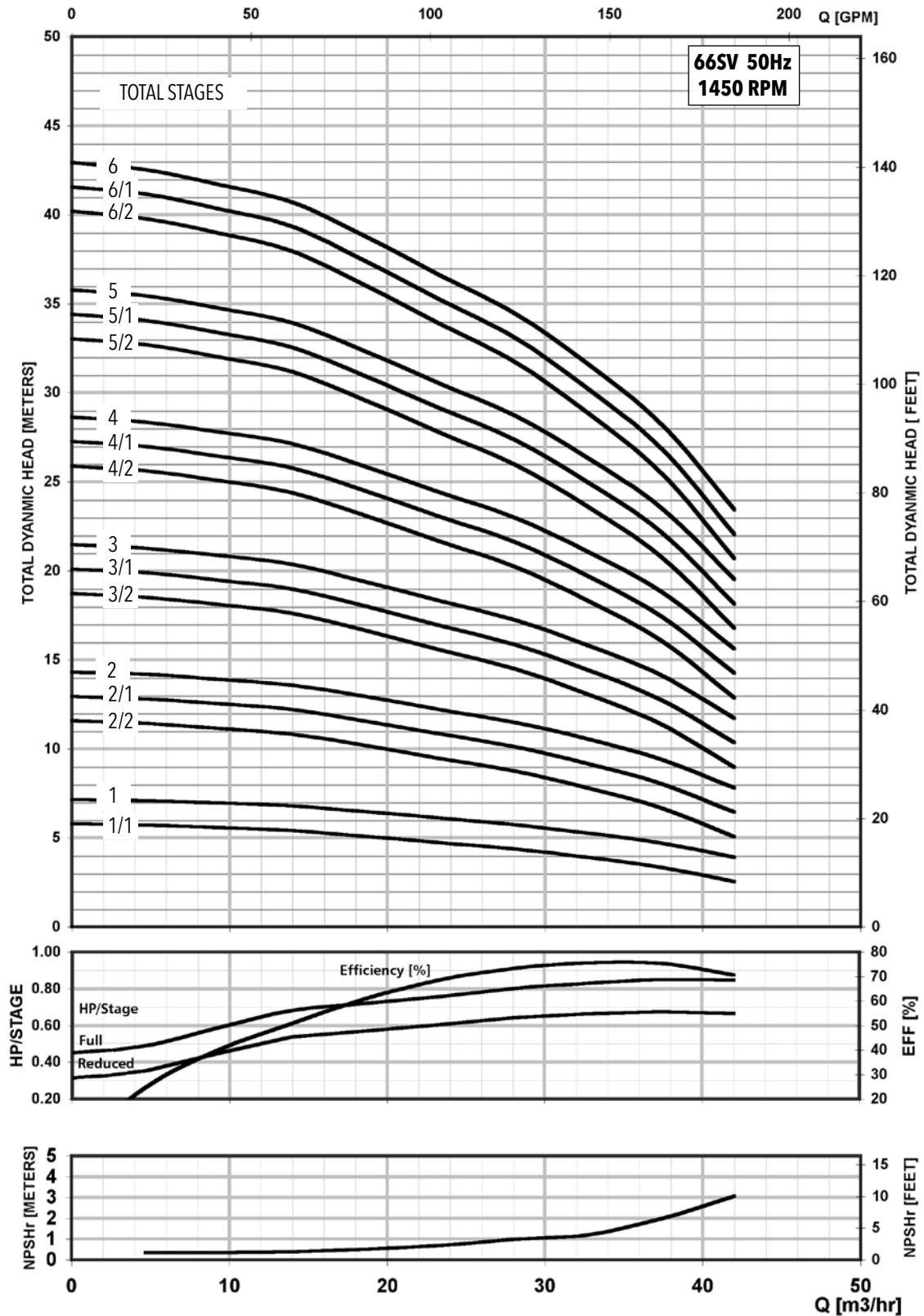
All dimensions are in inches (mm).

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
66SV-1	3	184TC				23.19	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	185	81	92	62	69	266	277	247	254
66SV-2/2						26.75	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	196	81	92	62	69	277	288	258	265
66SV-2/1						26.75	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	196	81	92	62	69	277	288	258	265
66SV-2						26.75	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	196	81	92	62	69	277	288	258	265
66SV-3/2						31.81	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	223	81	92	62	69	304	315	285	292
66SV-3/1						31.81	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	223	81	92	62	69	304	315	285	292
66SV-3						31.81	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	223	81	92	62	69	304	315	285	292
66SV-4/2						35.38	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	234	81	92	62	69	315	326	296	303
66SV-4/1						35.38	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	234	81	92	62	69	315	326	296	303
66SV-4						35.38	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	234	81	92	62	69	315	326	296	303
66SV-5/2	5					39.44	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	244	100	120	75	85	344	364	319	329
66SV-5/1						39.44	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	244	100	120	75	85	344	364	319	329
66SV-5						39.44	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	244	100	120	75	85	344	364	319	329
66SV-6/2						41.94	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	266	100	120	75	85	366	386	341	351
66SV-6/1						41.94	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	266	100	120	75	85	366	386	341	351
66SV-6						41.94	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	266	100	120	75	85	366	386	341	351

Performance Curve

66SV 1450 RPM

50 Hz

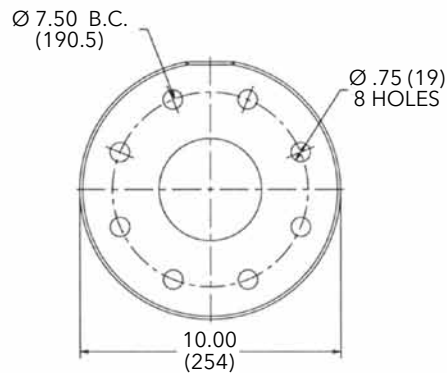
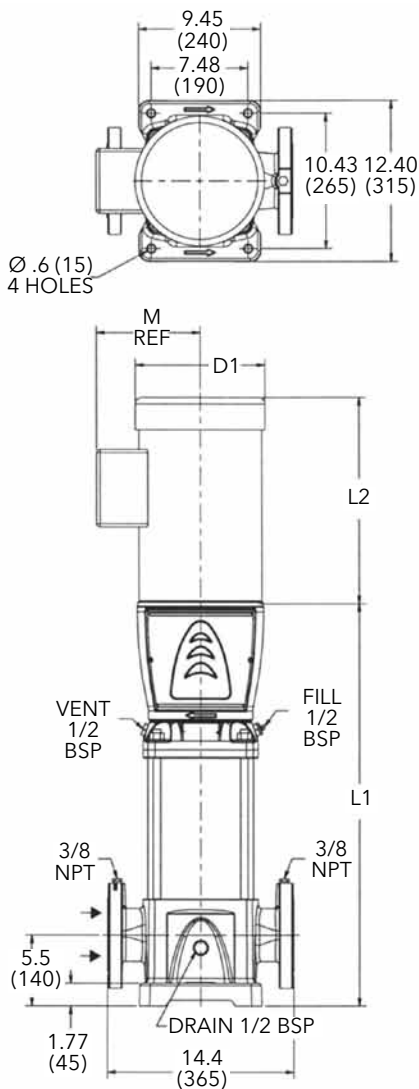


MINIMUM FLOW RATE: 1.6 m³/hr [7 GPM]

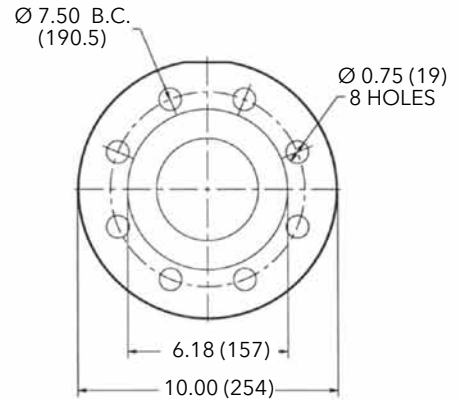
Dimensions and Weights

92SV Series 1450 RPM

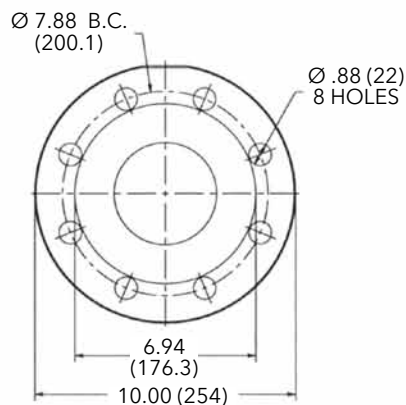
50 Hz



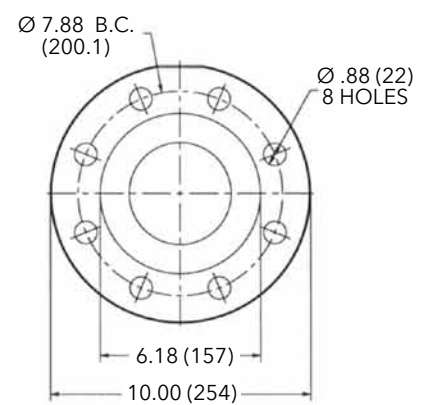
**Cast Iron
4" Class 125 F.F.**



316SS
4" Class 150 R.F.



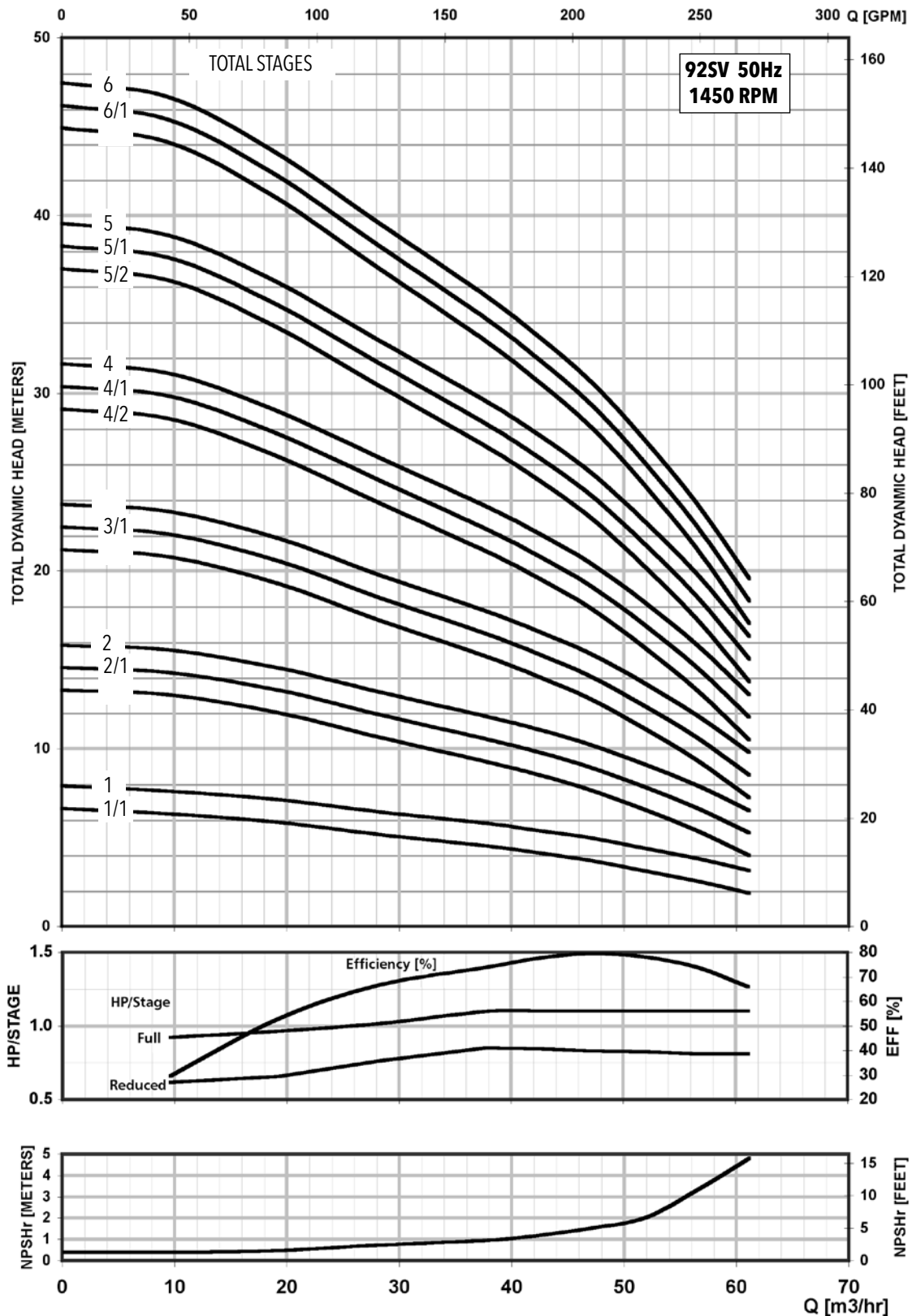
**Cast Iron
4" Class 250 R.F.**



316SS
4" Class 300 R.F.

All dimensions are in inches (mm).

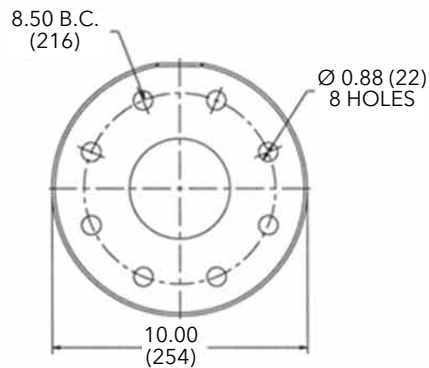
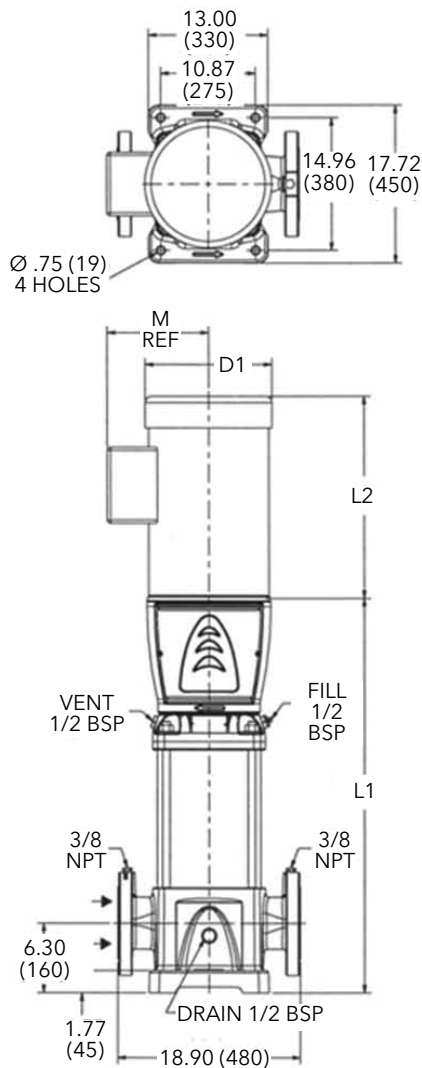
Pump Type Stages	Motor					Dimensions (in)										Weight (lbs.)									
	HP	NEMA Frame				L1	L2				M (Ref.)	D1 (max.)				D2	Pump Only	Motor				Pump/Motor			
		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30
92SV-1	3	184TC				23.19	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	185	81	92	62	69	266	277	247	254
92SV-2/2						28.31	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	196	81	92	62	69	277	288	258	265
92SV-2/1						28.31	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	196	81	92	62	69	277	288	258	265
92SV-2						28.31	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	196	81	92	62	69	277	288	258	265
92SV-3/2						31.18	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	223	81	92	62	69	304	315	285	292
92SV-3/1						31.18	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	223	81	92	62	69	304	315	285	292
92SV-3						31.28	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	223	81	92	62	69	304	315	285	292
92SV-4/2	5					34.88	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	234	100	120	75	85	334	354	309	319
92SV-4/1						34.88	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	234	100	120	75	85	334	354	309	319
92SV-4						34.88	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	234	100	120	75	85	334	354	309	319
92SV-5/2						38.44	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	252	100	120	75	85	352	372	327	337
92SV-5/1						38.44	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	252	100	120	75	85	352	372	327	337
92SV-5						38.44	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	252	100	120	75	85	352	372	327	337
92SV-6/2						41.94	13.94	13.94	15.44	15.44	6.88	8.50	8.50	8.50	8.50	5.51	266	100	120	75	85	366	386	341	351
92SV-6/1				41.94	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	266	100	120	75	85	366	386	341	351		
92SV-6				41.94	13.94	15.44	13.94	15.44	6.88	8.50	8.50	8.50	8.50	5.51	266	100	120	75	85	366	386	341	351		



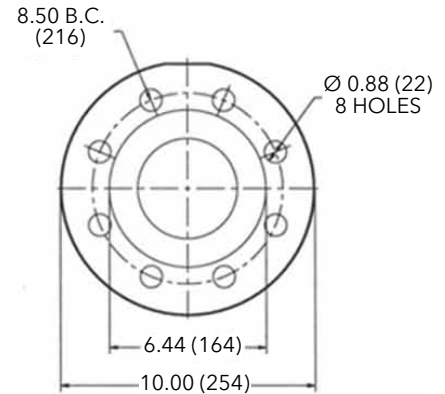
Dimensions and Weights

125SV Series 1450 RPM

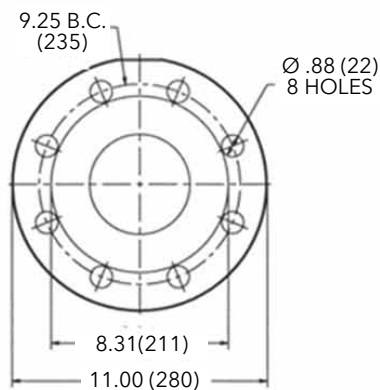
50 Hz



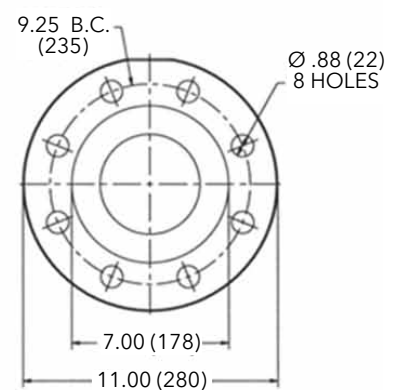
**Cast Iron
5" Class 125 F.F.**



316SS
5" Class 150 R.F.



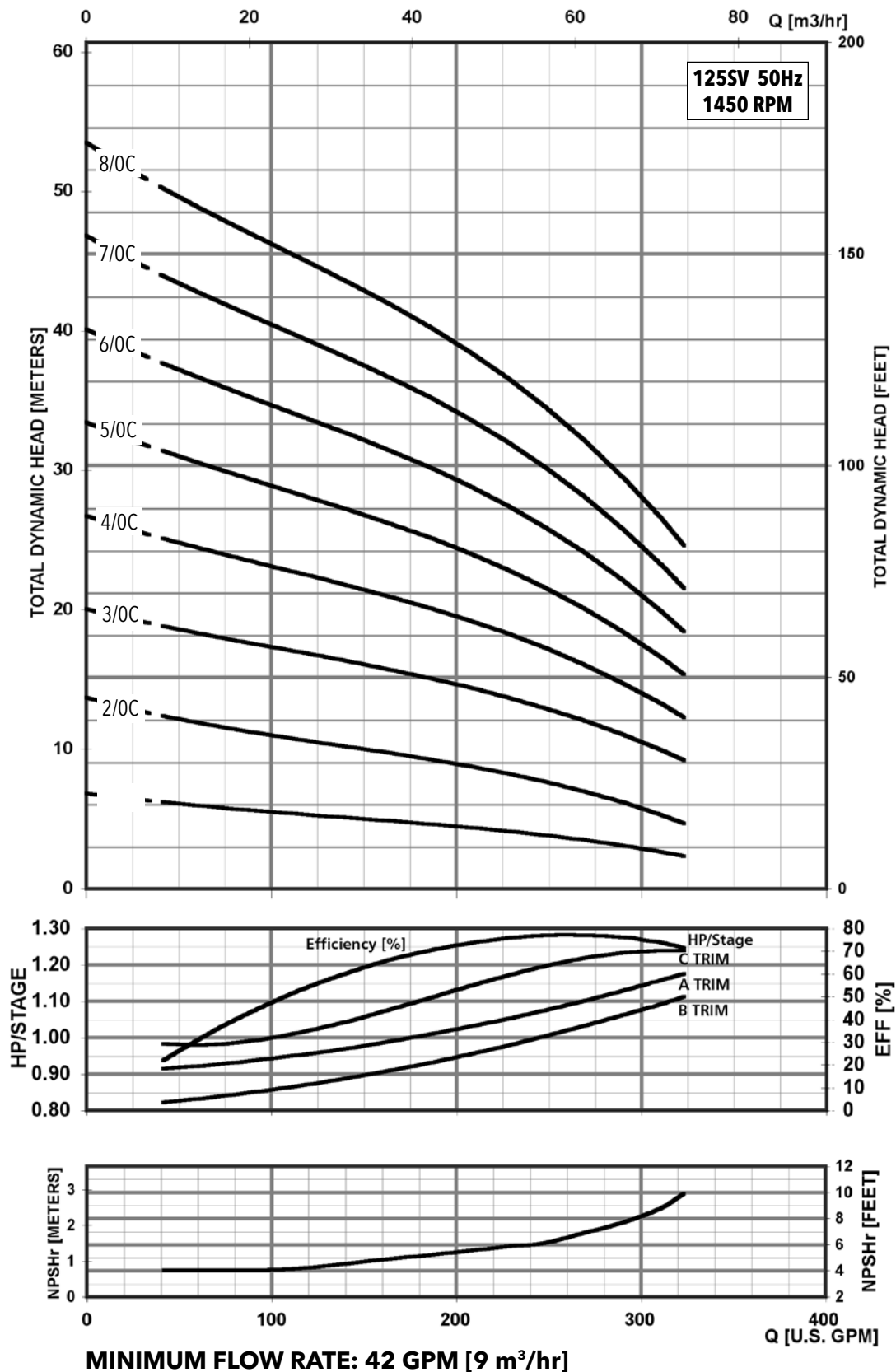
**Cast Iron
5" Class 250 R.F.**



316SS
5" Class 300 R.F.

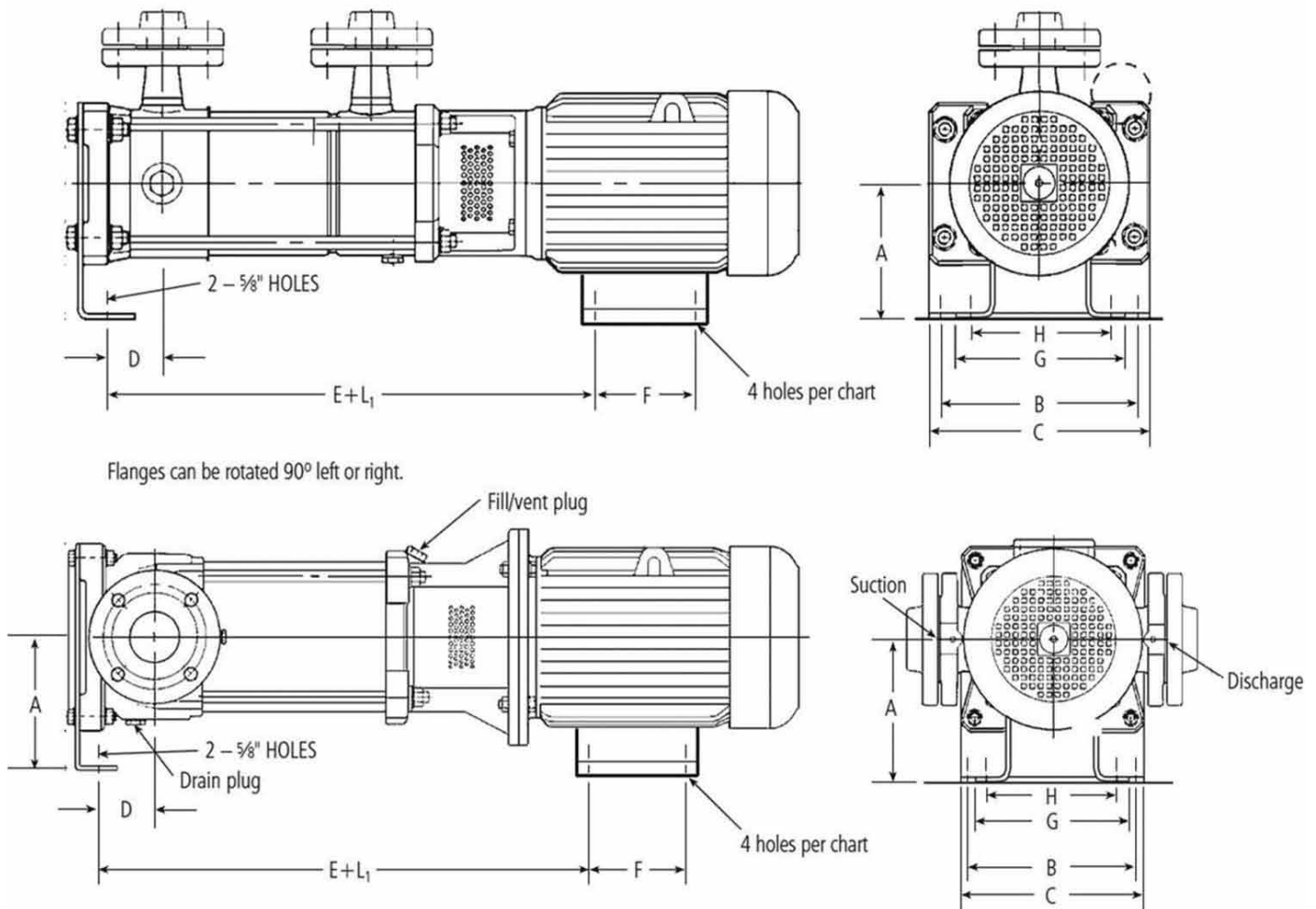
All dimensions are in inches (mm).

Pump Type	HP	Motor				Dimensions (in)														Weight (lbs.)											
		NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor					
		ODP 10	TEFC 10	ODP 30	TEFC 30		ODP 10	TEFC 10	ODP 30	TEFC 30						ODP 10	TEFC 10	ODP 30	TEFC 30			ODP 10	TEFC 10	ODP 30	TEFC 30	ODP 10	TEFC 10	ODP 30	TEFC 30		
125S410C	3	184TC	184TC	182TC	184TC	27/30	1393	1543	1255	1393	-	-	-	-	687	888	886	902	886	551	256	81	92	62	69	-	-	318	325		
125S420C	3	184TC	184TC	182TC	184TC	34/60	1393	1543	1255	1393	-	-	-	-	687	888	886	902	886	551	289	81	92	62	69	-	-	351	358		
125S430C	3	184TC	184TC	182TC	184TC	40/50	1393	1543	1255	1393	-	-	-	-	687	888	886	902	886	551	315	81	92	62	69	-	-	377	384		
125S440C	5	213TC	213TC	184TC	184TC	46/40	1388	1553	1393	1543	-	-	-	-	805	889	1062	888	886	551	355	100	120	75	85	-	-	430	440		
125S450C	5	213TC	213TC	184TC	184TC	52/30	1388	1553	1393	1543	-	-	-	-	805	889	1062	888	886	551	379	100	120	75	85	-	-	454	464		
125S460C	7.5	215TC	215TC	213TC	215TC	58/20	1663	1668	1555	1551	-	-	-	-	877	1062	1018	1018	1028	413	412	132	145	107	122	-	-	519	534		
125S470C	7.5	215TC	215TC	213TC	215TC	65/30	1663	1668	1555	1551	-	-	-	-	877	1062	1018	1018	1028	413	476	132	145	107	122	-	-	583	598		
125S480C	10	-	-	215TC	254TC	71/10	-	-	1555	1657	-	-	-	-	922	-	-	1018	1028	472	494	-	-	125	195	-	-	619	689		



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.



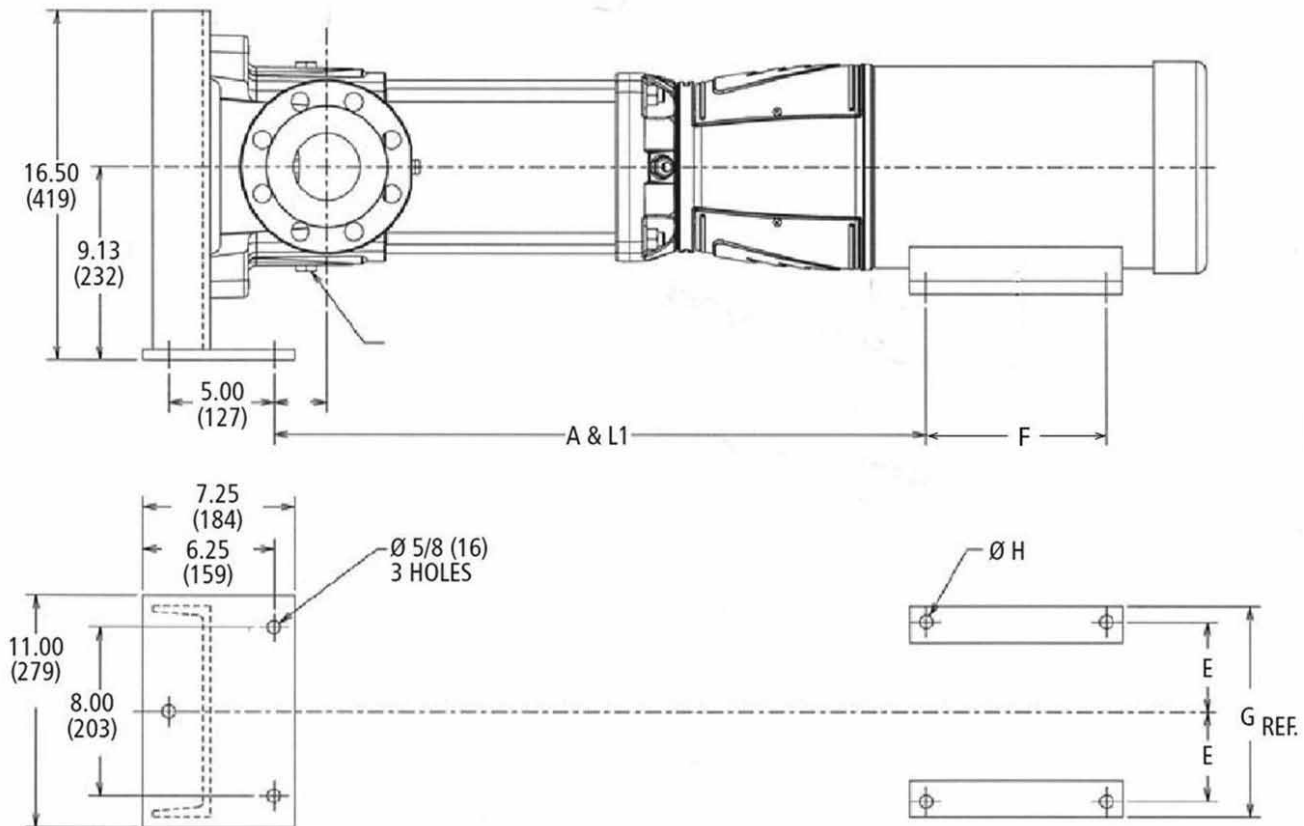
Commercial Water

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
15SV	56C	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
	180TC	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
	210TC	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	-
22SV	56C	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	-	-
	180TC	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.

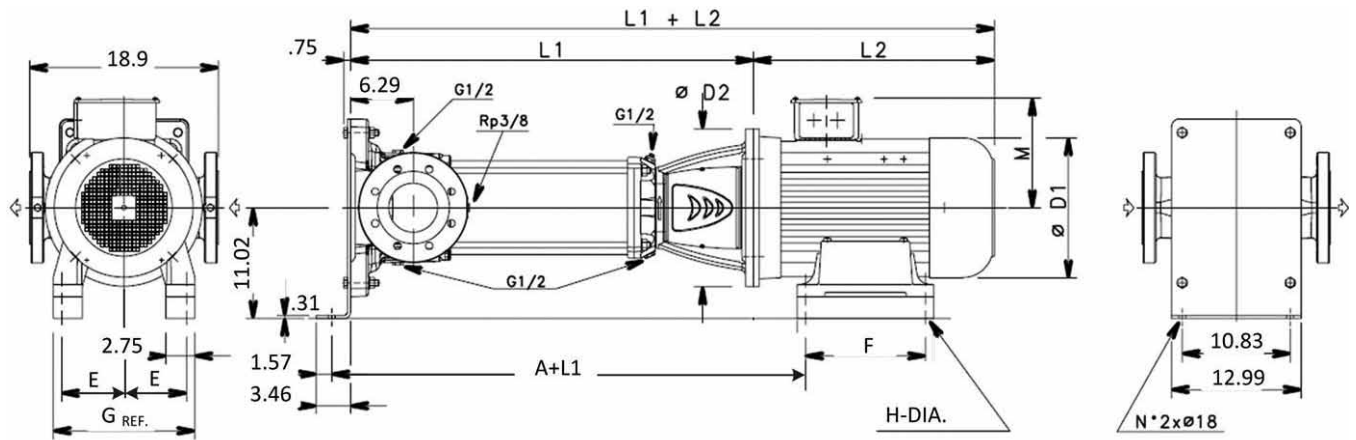


Series	Motor Frame	Flange	A	B	E	F	G	H - DIA.
33SV	182TC	G, N	0.5	1.13	3.5	2.25	8.63	13/32
	184TC					2.75		
	213TC		1.25		4.25	2.75	9.5	
	215TC					3.5		
	254TC		1.75		5	4.12	11.25	
	256TC					5		
	284TC		1.75		5.5	4.75	12.25	
	286TC					5.5		
	324TSC		2.25		6.25	5.25	16	
	326TSC					6		
	364TSC		2.88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

Commercial Water

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 2900 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Config- uration [Top/ Bottom]	T Config- uration [Oval]
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame									
			ODP	TEFC		ODP	TEFC								
30	2.01	2.00	56C		2.00	56C	179	586	254	17.5	25 Bar (362 psi)	Class 250 / 300	Yes	No	
29	1.94						172	563	244	16.8					
28	1.87						167	548	237	16.3					
27	1.81						161	528	228	15.8					
26	1.74	155			508		220	15.2							
25	1.67	149			489		212	14.6							
24	1.61	143			469		203	14.0							
23	1.54	137			450		195	13.4							
22	1.46	133			435		188	13.0							
21	1.40	127			415		180	12.4							
20	1.33	121			395		171	11.8							
19	1.26	115			376		163	11.2							
18	1.20	109			356		154	10.6							
17	1.13	102			334		144	10.0							
16	1.07	97			317		137	9.4							
15	0.99	89			291		126	8.7							
14	0.93	83			272		118	8.1							
13	0.86	77			253		109	7.5							
12	0.80	71			233		101	7.0							
11	0.73	65			213		92	6.4							
10	0.66	59			194		84	5.8							
9	0.59	53			174		75	5.2							
8	0.53	47			155		67	4.6							
7	0.46	41			136		59	4.1							
6	0.39	36			116		50	3.5							
5	0.33	29			96		42	2.9							
4	0.26	24			78		34	2.3							
3	0.20	18			58		25	1.7							
2	0.13	12			39		17	1.2							

3SV 2900 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Configuration [Top/ Bottom]	T Configuration [Oval]
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame									
			ODP	TEFC		ODP	TEFC								
30	3.26	3.00	182TC	184TC	5.00	184TC		227	743	322	22.2	25 Bar (362 psi)	Class 250 / 300	Yes	No
29	3.11				3.00	182TC	184TC	212	695	301	20.7				
28	3.01							204	671	290	20.0				
27	2.90							197	647	280	19.3				
26	2.79							190	623	270	18.6				
25	2.69							183	600	260	17.9				
24	2.58							175	575	249	17.2				
23	2.47							168	550	238	16.4				
22	2.36							160	526	228	15.7				
21	2.25							153	503	218	15.0				
20	2.15	146	479	207	14.3										
19	2.04	2.00	56C	2.00	56C	139	455	197	13.6	Yes	No				
18	1.93					131	430	186	12.8						
17	1.82					124	406	176	12.1						
16	1.72					116	381	165	11.4						
15	1.61					109	357	154	10.7						
14	1.50					102	334	145	10.0						
13	1.39					95	310	134	9.3						
12	1.31					87	285	123	8.5						
11	1.20					80	263	114	7.8						
10	1.09					73	238	103	7.1						
9	0.98	1.00	56C	1.00	56C	66	215	93	6.4	No	No				
8	0.87					58	191	82	5.7						
7	0.76					51	166	72	5.0						
6	0.64					44	143	62	4.3						
5	0.53					36	119	52	3.6						
4	0.43					29	96	41	2.9						
3	0.32					22	72	31	2.1						
2	0.21					15	48	21	1.4						

Technical Data - Pump Hydraulics / Motor Sizing

5SV 2900 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Configuration [Top/ Bottom]	T Configuration [Oval]	
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame										
			ODP	TEFC		ODP	TEFC									
27	5.02	5.00	184TC		5.00	184TC		204	669	290	20.0	25 Bar (362 psi)	Class 250 / 300	No		
26	4.83							196	644	279	19.2					
25	4.59							180	591	256	17.6					
24	4.41							173	567	245	16.9					
23	4.22							166	543	235	16.2					
22	4.04							158	520	225	15.5					
21	3.85							151	496	215	14.8					
20	3.67							144	472	204	14.1					
19	3.49	3.00	182TC	184TC	3.00	182TC	184TC	137	449	194	13.4			Yes		
18	3.30							130	425	184	12.7					
17	3.12							122	402	174	12.0					
16	2.93							115	378	164	11.3					
15	2.75							108	354	153	10.6					
14	2.57							101	331	143	9.9					
13	2.39							94	307	133	9.2					
12	2.20							86	283	123	8.5					
11	2.03	2.00	56C		2.00	56C		80	261	113	7.8			Yes		
10	1.84							72	237	103	7.1					
9	1.66							65	213	92	6.4					
8	1.47							58	190	82	5.7					
7	1.29							51	166	72	4.9					
6	1.11							43	142	61	4.2					
5	0.95							36	119	52	3.6					
4	0.76							29	95	41	2.8					
3	0.56	0.75			0.75			22	71	31	2.1	No				
2	0.38							15	48	21	1.4					

10SV 2900 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Configuration [Top/ Bottom]	T Configuration [Oval]						
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame															
			ODP	TEFC		ODP	TEFC														
20	9.55	10.00	215TC	254TC	10.00	215TC	254TC	228	749	324	22.4	25 Bar (362 psi)	Class 250 / 300	No							
19	9.07							217	712	308	21.2										
18	8.60							206	674	292	20.1										
17	8.12							194	637	276	19.0										
16	7.64	7.50	213TC	215TC	7.50	213TC	215TC	183	599	259	17.9			25 Bar (362 psi)		Class 250 / 300	Yes				
15	7.18									171	562								243	16.8	
14	6.70									160	525								227	15.7	
13	6.22									149	488								211	14.5	
12	5.75	5.00	184TC		5.00	184TC		137	450	195	13.4						25 Bar (362 psi)		Class 250 / 300	Yes	
11	5.17							123	405	175	12.1										
10	4.71							112	368	159	11.0										
9	4.24							101	331	143	9.9										
8	3.74							91	299	129	8.9										
7	3.27							80	261	113	7.8										
6	2.87							68	224	97	6.7										
5	2.39							57	187	81	5.6										
4	1.89	2.00	56C		2.00	56C		46	150	65	4.5	25 Bar (362 psi)	Class 250 / 300		No						
3	1.45							34	112	49	3.3										
2	0.97							23	74	32	2.2										
1	0.47							11	37	16	1.1										

Technical Data - Pump Hydraulics / Motor Sizing

15SV 2900 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Configuration [Top/ Bottom]	T Configuration [Oval]
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame									
			ODP	TEFC		ODP	TEFC								
15	15.11	15.00	254TC	256TC	15.00	254TC	256TC	210	688	298	20.5	25 Bar (362 psi)	Class 250 / 300	Yes	No
14	14.11							196	642	278	19.2				
13	13.09							182	596	258	17.8				
12	12.08							168	551	238	16.4				
11	11.08	10.00	215TC	254TC	10.00	215TC	254TC	154	505	218	15.1			Yes	Yes
10	10.07							140	459	198	13.7				
9	9.22							125	411	178	12.3				
8	8.20							111	365	158	10.9				
7	7.16	7.50	213TC	215TC	7.50	213TC	215TC	98	320	139	9.6				
6	6.14							84	274	119	8.2				
5	4.87							69	227	98	6.8				
4	3.90							55	182	79	5.4				
3	2.98	3.00	182TC	184TC	3.00	182TC	184TC	41	135	59	4.0			No	
2	2.01	2.00	56C		2.00	56C		27	90	39	2.7				
1	1.08	1.00			1.50			13	44	19	1.3				

22SV 2900 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Config- uration [Top/ Bottom]	T Config- uration [Oval]										
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame																			
			ODP	TEFC		ODP	TEFC																		
12	15.78	15.00	254TC	256TC	15.00	254TC	256TC	176	576	249	17.2	25 Bar (362 psi)	Class 250 / 300	Yes	No										
11	14.47							161	528	228	15.8														
10	13.37							147	483	209	14.4														
9	12.03							132	434	188	13.0														
8	10.70	10.00	215TC	254TC	10.00	215TC	254TC	118	386	167	11.5					25 Bar (362 psi)	Class 250 / 300	Yes	Yes						
7	9.36							103	338	146	10.1														
6	8.02							88	290	125	8.6														
5	6.54							72	238	103	7.1														
4	5.23	7.50	213TC	215TC	7.50	213TC	215TC	58	190	82	5.7			25 Bar (362 psi)	Class 250 / 300					Yes	Yes				
3	3.92							43	143	62	4.3														
2	2.61	3.00	182TC	184TC	3.00	182TC	184TC	29	95	41	2.8											25 Bar (362 psi)	Class 250 / 300	No	
1	1.39	1.50	56C		1.50	56C		14	46	20	1.4														

Technical Data - Pump Hydraulics / Motor Sizing

33SV 2900 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston									
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame																	
			ODP	TEFC		ODP	TEFC																
10	32.0	30	286TC		40	324TSC	326TSC	233	766	332	22.9	25 Bar (362 psi)	Class 250 / 300	Thrust Piston Required									
10/1	30.5							229	750	325	22.4												
10/2	29.0							223	732	317	21.8												
9	28.8	25	284TC	286TC	30	286TC	210	690	299	20.6	25 Bar (362 psi)				Class 250 / 300	Thrust Piston Required							
9/1	27.3						204	668	289	19.9													
9/2	25.8						199	652	282	19.5													
8	25.6						187	612	265	18.3													
8/1	24.1						180	592	256	17.7													
8/2	22.6						174	570	247	17.0													
7	22.4						163	534	231	15.9													
7/1	20.9	20	254TC	284TC	25	284TC	157	514	222	15.3			25 Bar (362 psi)	Class 250 / 300			Thrust Piston Required						
7/2	19.4						150	493	213	14.7													
6	19.2						140	458	198	13.7													
6/1	17.7						133	437	189	13.0													
6/2	16.2						127	416	180	12.4													
5	16.0						116	380	164	11.3													
5/1	14.6						15	254TC	256TC	20					254TC	111		363	157	10.8	25 Bar (362 psi)	Class 250 / 300	Thrust Piston Required
5/2	13.1	104	342	148	10.2																		
4	12.9	94	308	133	9.2																		
4/1	11.4	87	287	124	8.6																		
4/2	9.9	10	215TC	254TC	15	254TC						81		267		116	8.0	25 Bar (362 psi)	Class 125 / 150				
3	9.7											70		230		100	6.9						
3/1	8.2											65		212		92	6.3						
3/2	6.6	7.5	213TC	215TC	10	215TC	58	190	82	5.7	25 Bar (362 psi)	Class 125 / 150											
2	6						46	152	66	4.5													
2/1	4.9						41	133	58	4.0													
2/2	3.5	5	184TC		5	184TC		34	113	49					3.4	25 Bar (362 psi)	Class 125 / 150						
1	3.2							23	76	33					2.3								

Technical Data - Pump Hydraulics / Motor Sizing

46SV 2900 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame								
			ODP	TEFC		ODP	TEFC							
10	45.8	40	324TSC	326TSC	50	324TSC	326TSC	256	839	363	25.0	25 Bar (362 psi)	Class 250 / 300	Thrust Piston Required
10/1	44.3							251	825	357	24.6			
10/2	42.4							249	818	354	24.4			
9	41.3							234	767	332	22.9			
9/1	39.6				230			753	326	22.5				
9/2	37.8				224			735	318	21.9				
8	36.7				208			684	296	20.4				
8/1	35.0				203			666	288	19.9				
8/2	33.3	30	286TC	40	198	648	280	19.3	Class 125 / 150					
7	32.0				184	605	262	18.1						
7/1	30.3				179	588	254	17.5						
7/2	28.6				173	566	245	16.9						
6	27.5	25	284TC	286TC	30	286TC	158	520			225		15.5	
6/1	25.7						153	501			217		14.9	
6/2	24.0						148	486			210		14.5	
5	22.9						131	430			186		12.8	
5/1	21.2	20	254TC	284TC	20	254TC	284TC	126			413		179	12.3
5/2	19.4							121			398		172	11.9
4	18.4							105			345		149	10.3
4/1	16.9							99			326		141	9.7
4/2	14.9	15	254TC	256TC	15	254TC	256TC	95			311		135	9.3
3	13.8							78			255		110	7.6
3/1	12.1							73			239		103	7.1
3/2	10.3							66			218		94	6.5
2	9.1	10	215TC	254TC	10	215TC	254TC	53			175		76	5.2
2/1	7.4	7.5	213TC	215TC	7.5	213TC	215TC	47			153		66	4.6
2/2	5.6	5	184TC		5	213TC	215TC	41			135		58	4.0
1	4.6							26			85		37	2.5

66SV 2900 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston					
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame													
			ODP	TEFC		ODP	TEFC												
6	41.0	40	324TSC	326TSC	50	324TSC	326TSC	177	582	252	17.4	25 Bar (362 psi)	Class 250 / 300	Thrust Piston Required					
6/1	39.1				40			324TSC	326TSC	169	556				241	16.6			
6/2	37.3									40	324TSC				326TSC	165	540	234	16.1
5	34.0	30	286TC	40		324TSC	326TSC						146			478	207	14.3	
5/1	32.3				30			286TC	40				324TSC			326TSC	141	461	200
5/2	30.5									30	286TC				40		324TSC	326TSC	135
4	27.1	25	284TC	286TC		30	286TC												117
4/1	25.3				25			284TC	286TC				30			286TC			111
4/2	23.7									25	284TC				286TC		30	286TC	107
3	20.5	20	254TC	284TC		20	254TC												284TC
3/1	18.7				20			254TC	284TC				20			254TC			
3/2	16.9									20	254TC				284TC		20	254TC	
2	13.6	15	254TC	256TC		15	254TC												256TC
2/1	11.9				15			254TC	256TC				15			254TC			
2/2	10.1									10	215TC				254TC		15	254TC	
1	6.8	7.5	213TC	215TC		7.5	213TC												215TC

Technical Data - Pump Hydraulics / Motor Sizing

92SV 2900 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston		
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame										
			ODP	TEFC		ODP	TEFC									
6	54.0	50	324TSC	326TSC	60	364TSC	364TSC	189	619	268	18.5	25 Bar (362 psi)	Class 250 / 300	Piston Required		
6/1	51.7				50	324TSC	326TSC	183	600	260	17.9					
6/2	49.4							177	581	251	17.3					
5	45.0	40			40	324TSC	326TSC	158	518	224	15.5		Class 125 / 150			
5/1	42.1							153	501	217	14.9					
5/2	40.0							147	483	209	14.4					
4	35.5	30	286TC		40	324TSC	326TSC	126	413	179	12.3					
4/1	33.2							120	394	171	11.8					
4/2	31.0							117	385	167	11.5					
3	26.6	25	284TC	286TC	30	286TC		96	315	136	9.4					
3/1	24.3	20	254TC	284TC				90	296	128	8.8					
3/2	22.0							86	283	122	8.4					
2	17.8				20	254TC	284TC	63	208	90	6.2					
2/1	15.5	15	254TC	256TC				58	189	82	5.6					
2/2	13.1							53	174	75	5.2					
1	9.0	10	215TC	254TC	10	215TC	254TC	30	100	43	3.0					
1/1	6.8	7.5	213TC	215TC	7.5	213TC	215TC	26	86	37	2.6					

125SV 2900 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame								
			ODP	TEFC		ODP	TEFC							
8/1B	68.26	60.00	364TSC	365TSC	Contact Factory			201	659	285	19.7	25 Bar (362 psi)	Class 250 / 300	Thrust Piston Required
7/3B	56.61	50.00	324TSC	326TSC	60.00	364TSC	365TSC	168	551	239	16.4			
6/2B	49.36				50.00	324TSC	326TSC	146	479	207	14.3			
5/0C	43.61	40.00	324TSC	326TSC	40.00	324TSC	326TSC	128	420	182	12.5		Class 125 / 150	
4/4A	32.62	30.00	286TC	286TC				95	312	135	9.3			
3/2A	24.87	25.00	284TC	286TC	30.00	286TC	286TC	73	240	104	7.1			
2/2A	18.65	20.00	254TC	284TC	20.00	254TC	284TC	49	161	70	4.8			
1/0C	9.57	10.00	215TC	254TC	10.00	215TC	254TC	27	89	38	2.6			

Technical Data - Pump Hydraulics / Motor Sizing

1SV 1450 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Configuration [Top/ Bottom]	T Configuration [Oval]
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame									
			ODP	TEFC		ODP	TEFC								
30	0.25	0.50	56C	0.50	56C	44	143	62	4.3	25 Bar (362 psi)	Class 250 / 300	Yes	Yes		
29	0.24					42	139	60	4.1						
28	0.24					41	134	58	4.0						
27	0.23					39	129	56	3.9						
26	0.22					38	124	54	3.7						
25	0.21					36	119	52	3.6						
24	0.20					35	115	50	3.4						
23	0.19					34	112	48	3.3						
22	0.18					32	105	45	3.1						
21	0.18					31	102	44	3.0						
20	0.17					29	95	41	2.8						
19	0.16					28	92	40	2.7						
18	0.15					26	85	37	2.5						
17	0.14					25	82	35	2.4						
16	0.13					23	75	33	2.3						
15	0.12					22	72	31	2.2						
14	0.12					20	66	28	2.0						
13	0.11					19	62	27	1.9						
12	0.10					17	56	24	1.7						
11	0.09					16	52	23	1.6						
10	0.08					15	49	21	1.5						
9	0.08					13	43	18	1.3						
8	0.07					12	39	17	1.2						
7	0.06					10	33	14	1.0						
6	0.05					9	30	13	0.9			No			
5	0.04					7	23	10	0.7						
4	0.03					6	20	9	0.6						
3	0.02					4	13	6	0.4						
2	0.02					3	10	4	0.3						

3SV 1450 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Configuration [Top/ Bottom]	T Configuration [Oval]
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame									
			ODP	TEFC		ODP	TEFC								
30	0.45	0.50	56C	0.50	56C	54	177	77	5.3	25 Bar (362 psi)	Class 250 / 300	Yes	Yes		
29	0.43					52	171	74	5.1						
28	0.42					51	167	72	5.0						
27	0.40					49	161	70	4.8						
26	0.39					47	154	67	4.6						
25	0.37					45	148	64	4.4						
24	0.36					43	141	61	4.2						
23	0.34					42	138	60	4.1						
22	0.33					40	131	57	3.9						
21	0.32					38	125	54	3.7						
20	0.30					36	118	51	3.5						
19	0.27					33	108	47	3.2						
18	0.25					31	102	44	3.0						
17	0.24					29	95	41	2.8						
16	0.23					27	89	38	2.6						
15	0.21					26	85	37	2.5						
14	0.21					25	82	35	2.4						
13	0.20					23	75	33	2.3						
12	0.19					22	72	31	2.2						
11	0.18					20	66	28	2.0						
10	0.15					18	59	26	1.8						
9	0.14					16	52	23	1.6						
8	0.12					14	46	20	1.4						
7	0.10					13	43	18	1.3						
6	0.09					11	36	16	1.1			No			
5	0.07					9	30	13	0.9						
4	0.06					7	23	10	0.7						
3	0.04					5	16	7	0.5						
2	0.03					4	13	6	0.4						

Technical Data - Pump Hydraulics / Motor Sizing

5SV 1450 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Configuration [Top/ Bottom]	T Configuration [Oval]
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame									
			ODP	TEFC		ODP	TEFC								
27	0.60	0.50	56C	0.75	56C	49	161	70	4.8	25 Bar (362 psi)	Class 250 / 300	Yes	Yes		
26	0.59					48	157	68	4.7						
25	0.58					45	148	64	4.4						
24	0.55					43	141	61	4.2						
23	0.54					41	135	58	4.0						
22	0.51					40	131	57	3.9						
21	0.50					38	125	54	3.7						
20	0.48					36	118	51	3.5						
19	0.46					34	112	48	3.3						
18	0.43			32		105	45	3.1							
17	0.40			31		102	44	3.0							
16	0.38			29		95	41	2.8							
15	0.35			27		89	38	2.6							
14	0.32			25		82	35	2.4							
13	0.30			23		75	33	2.3							
12	0.27			22		72	31	2.2							
11	0.25			20		66	28	2.0							
10	0.24			18		59	26	1.8							
9	0.23			16		52	23	1.6							
8	0.21			14		46	20	1.4							
7	0.19			13		43	18	1.3							
6	0.13			11		36	16	1.1							
5	0.12			9		30	13	0.9	No						
4	0.11			7		23	10	0.7							
3	0.07			5		16	7	0.5							
2	0.05			4		13	6	0.4							

10SV 1450 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Config- uration [Top/ Bottom]	T Config- uration [Oval]
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame									
			ODP	TEFC		ODP	TEFC								
20	1.22	1.50	56C		1.50	56C	60	197	85	5.9	25 Bar (362 psi)	Class 250 / 300	Yes	Yes	
19	1.15	1.00					54	177	77	5.3					
18	1.09						51	167	72	5.0					
17	1.03						49	161	70	4.8					
16	0.97	1.00			47		154	67	4.6						
15	0.90				43		141	61	4.2						
14	0.84				40		131	57	3.9						
13	0.79				37		121	53	3.6						
12	0.72	0.75			34		112	48	3.3						
11	0.67				31		102	44	3.0						
10	0.59				28		92	40	2.7						
9	0.54	0.50			25		82	35	2.4						
8	0.47				23		75	33	2.3						
7	0.42				20		66	28	2.0						
6	0.36				17		56	24	1.7						
5	0.30				14		46	20	1.4						
4	0.24				11		36	16	1.1						
3	0.17				9		30	13	0.9						
2	0.12				6		20	9	0.6						
1	0.05				3		10	4	0.3						

Technical Data - Pump Hydraulics / Motor Sizing

15SV 1450 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Config- uration [Top/ Bottom]	T Config- uration [Oval]
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame									
			ODP	TEFC		ODP	TEFC								
15	1.88	2.00	56C		2.00	56C	52	171	74	5.1	25 Bar (362 psi)	Class 250 / 300	Yes	Yes	
14	1.74						49	161	70	4.8					
13	1.61						45	148	64	4.4					
12	1.48	1.50			1.50		42	138	60	4.1					
11	1.34						38	125	54	3.7					
10	1.21						35	115	50	3.4					
9	1.21	1.00			0.75		31	102	44	3.0					
8	1.07						28	92	40	2.7					
7	0.94						24	79	34	2.3					
6	0.80	0.75			0.50		21	69	30	2.1					
5	0.67						17	56	24	1.7					
4	0.54						14	46	20	1.4					
3	0.40	0.50					10	33	14	1.0					
2	0.27						7	23	10	0.7					
1	0.13						4	13	6	0.4			No		

22SV 1450 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	R Config- uration [Top/ Bottom]	T Config- uration [Oval]
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame									
			ODP	TEFC		ODP	TEFC								
12	1.97	2.00	56C	2.00	56C	43	141	61	4.2	25 Bar (362 psi)	Class 250 / 300	Yes	Yes		
11	1.74					40	131	57	3.9						
10	1.61					37	121	53	3.6						
9	1.48	1.50		1.50		33	108	47	3.2						
8	1.34					29	95	41	2.8						
7	1.21					26	85	37	2.5						
6	0.94	1.00		1.00		22	72	31	2.2						
5	0.80					18	59	26	1.8						
4	0.67					15	49	21	1.5						
3	0.54	0.50		0.50		11	36	16	1.1					No	
2	0.27					7	23	10	0.7						
1	0.13					4	13	6	0.4						

Technical Data - Pump Hydraulics / Motor Sizing

33SV 1450 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston			
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame											
			ODP	TEFC		ODP	TEFC										
10	3.9	5.0	184TC	184TC	5.0	184TC	184TC	59	201	84	5.8	25 Bar (362 psi)	Class 125 / 150				
10/1	3.8							57	194	81	5.6						
10/2	3.7							56	191	80	5.5						
9	3.5	3.0	182TC	184TC				3.0	182TC	184TC	53				181	75	5.2
9/1	3.4										51				174	72	5.0
9/2	3.3										50				170	71	4.9
8	3.1										47				160	67	4.6
8/1	3.0				46	157	65				4.5						
8/2	2.9				44	150	62				4.3						
7	2.7				41	140	58				4.0						
7/1	2.6				40	136	57				3.9						
7/2	2.5				38	130	54				3.7						
6	2.3				35	119	50				3.4						
6/1	2.2				34	116	48				3.3						
6/2	2.1				32	109	45				3.1						
5	1.9				29	99	41				2.8						
5/1	1.8				28	95	40				2.7						
5/2	1.7				26	89	37				2.5						
4	1.5				24	82	34				2.3						
4/1	1.4				22	75	31				2.2						
4/2	1.3				20	68	28				2.0						
3	1.2				18	61	26				1.8						
3/1	1.1				16	55	23				1.6						
3/2	0.9				15	51	21				1.5						
2	0.8				12	41	17				1.2						
2/1	0.7				10	34	14				1.0						
2/2	0.6				9	30	12				0.9						
1	0.4				6	20	9				0.6						

Technical Data - Pump Hydraulics / Motor Sizing

46SV 1450 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston			
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame											
			ODP	TEFC		ODP	TEFC										
10	6.0	7.5	213TC	215TC	7.50	213TC	215TC	68	222	96	6.6	25 Bar (362 psi)	Class 125 / 150				
10/1	5.8							66	218	94	6.5						
10/2	5.5	5.00	184TC	184TC				5.00	184TC	184TC	63				215	89	6.2
9	5.2										59				201	84	5.8
9/1	5.1										58				198	82	5.7
9/2	5.0										57				194	81	5.6
8	4.6				53	181	75				5.2						
8/1	4.5				52	177	74				5.1						
8/2	4.4				50	170	71				4.9						
7	4.1				46	157	65				4.5						
7/1	4.0				45	153	64				4.4						
7/2	3.9				44	150	62				4.3						
6	3.5	3.00	182TC	184TC	3.00	182TC	184TC	40	136	57	3.9						
6/1	3.4							38	130	54	3.7						
6/2	3.2							37	126	53	3.6						
5	2.9							33	112	47	3.2						
5/1	2.8							32	109	45	3.1						
5/2	2.6							30	102	43	2.9						
4	2.3							26	89	37	2.5						
4/1	2.2							25	85	35	2.4						
4/2	2.1							24	82	34	2.3						
3	1.7							20	68	28	2.0						
3/1	1.6							18	61	26	1.8						
3/2	1.5							17	58	24	1.7						
2	1.2							13	44	18	1.3						
2/1	1.0							12	41	17	1.2						
2/2	0.9							10	34	14	1.0						
1	0.6							7	24	10	0.7						

66SV 1450 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston						
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame														
			ODP	TEFC		ODP	TEFC													
6	5.1	5.00	184TC	184TC	7.50	213TC	215TC	43	147	61	4.2	25 Bar (362 psi)	Class 125 / 150							
6/1	4.9				5.00	184TC	184TC	42	143	60	4.1									
6/2	4.7							40	136	57	3.9									
5	4.2							36	123	51	3.5									
5/1	4.0							34	116	48	3.3									
5/2	3.9							33	112	47	3.2									
4	3.4							29	99	41	2.8									
4/1	3.2	3.00	182TC	184TC	27	92	38	2.6	3.00	182TC	184TC				26	89	37	2.5		
4/2	3.0				21	72	30	2.1												
3	2.5				20	68	28	2.0												
3/1	2.3				19	65	27	1.9												
3/2	2.2				14	48	20	1.4												
2	1.7				13	44	18	1.3												
2/1	1.5				12	41	17	1.2												
2/2	1.3				7	24	10	0.7												
1	0.9																			

Technical Data - Pump Hydraulics / Motor Sizing

92SV 1450 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame								
			ODP	TEFC		ODP	TEFC							
6	6.6	7.5	213TC	213TC	7.5	213TC	213TC	46	150	65	4.5	25 Bar (362 psi)	Class 125 / 150	
6/1	6.3							45	146	63	4.4			
6/2	6.0							43	142	61	4.2			
5	5.5	5	184TC	184TC	5.00	184TC	184TC	41	134	58	4.0			
5/1	5.2							38	130	54	3.7			
5/2	4.9							37	126	53	3.6			
4	4.4							32	109	45	3.1			
4/1	4.1							30	102	43	2.9			
4/2	3.8							29	99	41	2.8			
3	3.3	3.0	182TC	184TC	3.00	182TC	184TC	24	82	34	2.3			
3/1	3.0							22	75	31	2.2			
3/2	2.7							21	72	30	2.1			
2	2.2							16	55	23	1.6			
2/1	1.9							15	51	21	1.5			
2/2	1.7							13	44	18	1.3			
1	1.1							8	27	11	0.8			
1/1	0.9							7	24	10	0.7			

125SV 1450 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (meters)	Shutoff TDH (feet)	Shutoff TDH (psi)	Shutoff TDH (bar)	Casing/ Sleeve Pressure Rating (standard assembly)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame								
			ODP	TEFC		ODP	TEFC							
8/0C	9.05	10.00	215TC	254TC	10.00	215TC	254TC	54	177	77	5.3	25 Bar (362 psi)	Class 125 / 150	Thrust Piston Required
7/0C	8.18	7.50	213TC	215TC				47	154	67	4.6			
6/0C	7.02				5.00	184TC		7.50	213TC	215TC	40			
5/0C	5.85	34	112	48							3.3			
4/0C	4.68	5.00	184TC		27	89	38	2.6						
3/0C	3.51								20	66	28			
2/0C	2.48	3.00	182TC	184TC	3.00	182TC	184TC	14	46	20	1.4			
1/0C	1.24							7	23	10	0.7			

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 area 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 (h_z) at which to install the machine under safe conditions, the following formula must be verified:

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

where:

h_p is the absolute pressure applied to the free liquid surface in the suction tank, expressed in feet of liquid; h_p 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; h_z 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. h_{pv} is the quotient between the P_v 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 2, 4, 8, 16		SV 33, 46, 66, 92		Recommended Seal	Elastomers
				304	316	CI/316	316		
Water	100	23/248		•	•	•	•	Q ₁ BEGG	E
Deionized, demineralized or distilled water	100	-13/230		•	•	•	•	Q ₁ BEGG	E
Water and oil emulsion	any	23/194		•	•	•	•	Q ₁ BVGG	V
Acetic acid (•)	80	14/158	.038	•	•	•	•	Q ₁ BEGG	E
Citric acid	5	14/158	.056	•	•	•	•	Q ₁ BEGG	E
Hydrochloric acid	2	23/77	.043		•		•	Q ₁ Q ₁ VGG	V
Phosphoric acid	10	23/86	.048		•		•	Q ₁ BEGG	E
Nitric acid (•)	50	23/86	.053	•	•	•	•	Q ₁ Q ₁ VGG	V
Sulphuric acid (•)	2	14/77	.066		•		•	Q ₁ BVGG	V
Tannic acid	20	32/122			•		•	Q ₁ BEGG	E
Tartaric acid	50	14/77	.063	•	•	•	•	Q ₁ Q ₁ VGG	V
Uric acid	80	14/176	.068	•	•	•	•	Q ₁ BEGG	E
Benzoic acid	70	32/158	.047	•	•	•	•	Q ₁ BVGG	V
Boric acid	Saturated	14/194	.052	•	•	•	•	Q ₁ Q ₁ VGG	V
Formic acid (•)	5	5/77	.044	•	•	•	•	Q ₁ BEGG	E
Ethyl alcohol (•)	100	23/104	.029	•	•	•	•	Q ₁ BEGG	E
Methyl alcohol (•)	100	23/104	.029	•	•	•	•	Q ₁ BEGG	E
Propyl alcohol (•)	100	23/176	.029	•	•	•	•	Q ₁ BEGG	E
Butyl alcohol	100	23/176	.030	•	•	•	•	Q ₁ BVGG	V
Denatured alcohol (•)	100	23/158	.030	•	•	•	•	Q ₁ BEGG	E
Ammonia in water (•)	25	-4/122	.038	•	•	•	•	Q ₁ BEGG	E
Chloroform		14/86	.053	•	•	•	•	Q ₁ BVGG	V
Caustic soda	25	32/158	.077	•	•	•	•	Q ₁ Q ₁ EGG	E
Water, detergents, mineral oils mixture		23/176		•	•	•	•	Q ₁ Q ₁ VGG	V
Cleaning products		23/212		•	•	•	•	Q ₁ Q ₁ VGG	V
Diesel oil (•)	100	32/176	.033	•	•	•	•	Q ₁ BVGG	V
Kerosene (•)	100	32/176		•	•	•	•	Q ₁ BVGG	V
Fuel oil (•)		32/194	.027	•	•	•	•	Q ₁ BVGG	V
Glycerine	100	68/194	.046	•	•	•	•	Q ₁ BEGG	E
Sodium Hypochlorite	1	14/77		•			•	Q ₁ Q ₁ VGG	V
Phosphates/polyphosphates		23/194			•		•	Q ₁ Q ₁ VGG	V
Sodium nitrate	Saturated	14/176	.081	•	•	•	•	Q ₁ BEGG	E
Cutting fluid	100	23/230	.033	•	•	•	•	Q ₁ BVGG	V
Peanut oil (•)	100	23/230	.034	•	•	•	•	Q ₁ BEGG	E
Colza oil (•)	100	23/230	.034	•	•	•	•	Q ₁ BEGG	E
Linseed oil (•)	100	23/230	.034	•	•	•	•	Q ₁ BEGG	E
Coconut oil (•)	100	-4/194	.033	•	•	•	•	Q ₁ BEGG	E
Soybean oil (•)	100	32/194		•	•	•	•	Q ₁ BEGG	E
Diathermic oil	100	23/230	.033	•	•	•	•	Q ₁ BVGG	V
Hydraulic oil	100	23/230		•	•	•	•	Q ₁ BVGG	V
Mineral oil	100	23/230	.034	•	•	•	•	Q ₁ BVGG	V
Sodium sulfate	15	14/104	.094	•	•	•	•	Q ₁ Q ₁ EGG	E
Aluminum sulfate	30	23/122	.097		•		•	Q ₁ Q ₁ EGG	E
Ammonium sulfate	10	14/140	.064		•		•	Q ₁ Q ₁ EGG	E
Iron sulfate	10	23/86	.076		•		•	Q ₁ BEGG	E
Copper sulfate	20	32/86	.082		•		•	Q ₁ Q ₁ VGG	V
Trichloroethylene		14/104	.053	•	•	•	•	Q ₁ BVGG	V
Perchloroethylene		14/86	.057	•	•	•	•	Q ₁ BVGG	V

Legend

Q₁ = 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.

Notes

Xylem |'zīləm|

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

We're 12,500 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

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