



ITT

BESV60

Commercial Water

Goulds Pumps

e-SV Technical Manual

e-SV Series Vertical Multi-Stage Pumps



 **GOULDS PUMPS**

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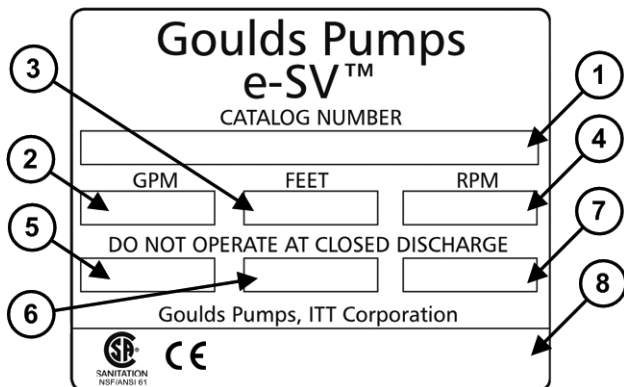
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Contents

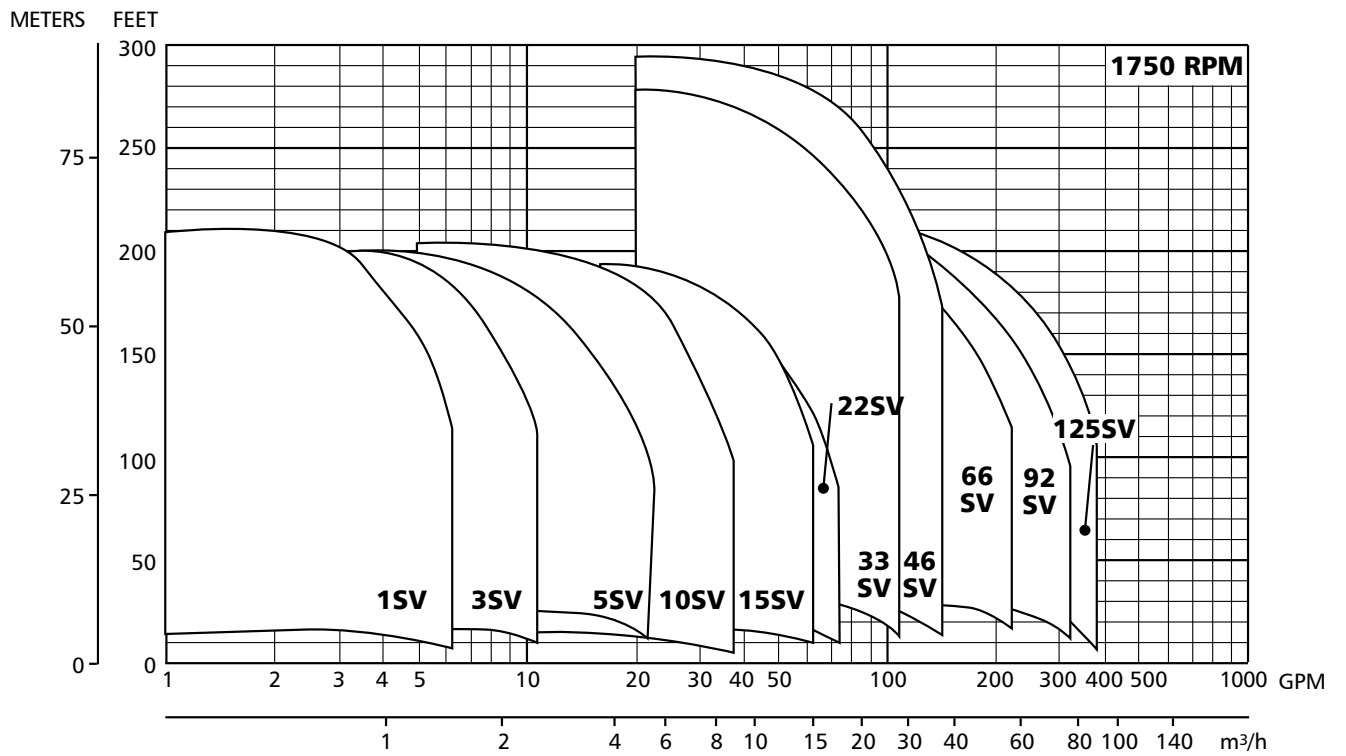
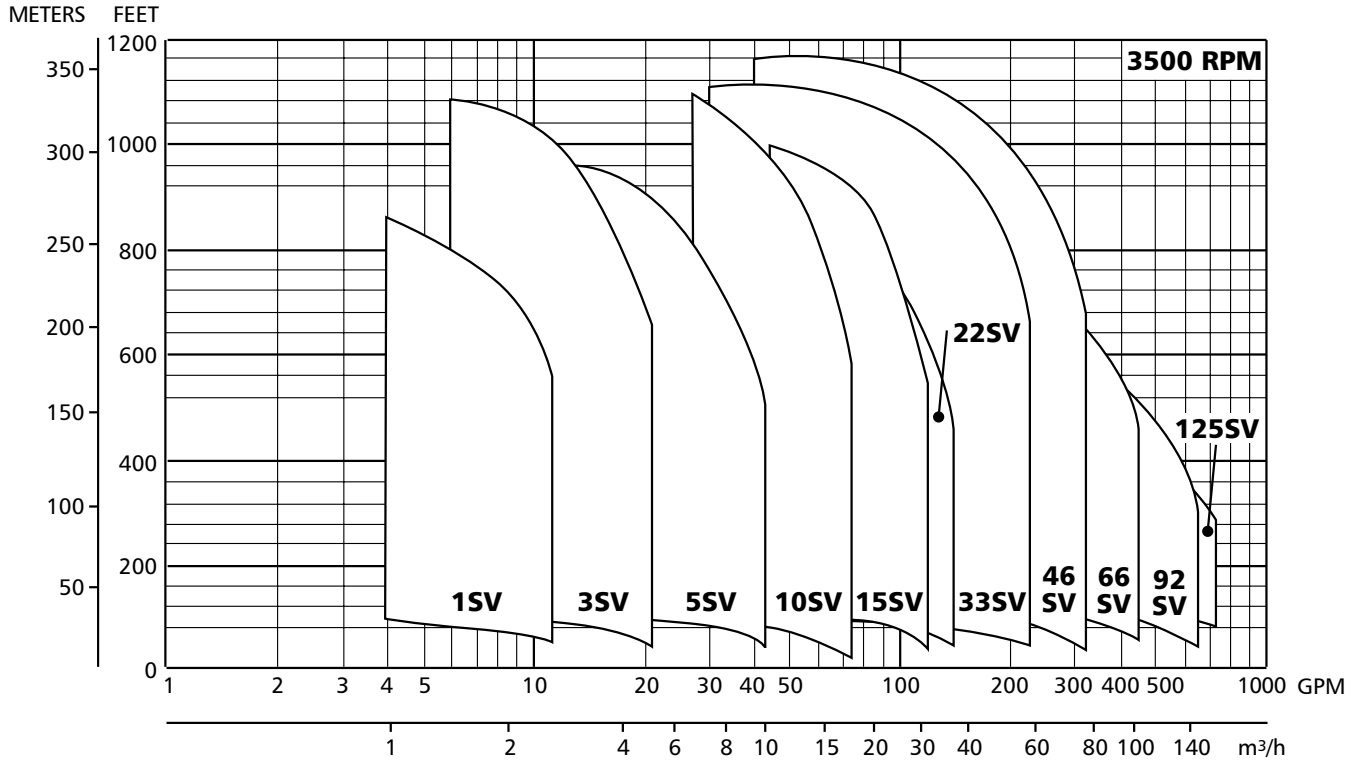
Coverage Curves	3
General Market Specifications	4
Characteristics of 1-125SV Series	5
Characteristics of 33-92SV Series	5
General Characteristics	6
Typical Applications of e-SV Pumps	7
e-SV Nomenclature	8-11
1-22SV Series Pump Cross Section and Main Components	12-13
33-92SV Series Pump Cross Section and Main Components	14-15
125SV Series Pump Cross Section and Main Components	16-17
e-SV Mechanical Seals	18
Maximum Allowable Working Pressure Charts	19
Motor Data	20-23
3500 RPM Curves, Dimensions and Weights	24-45
1750 RPM Curves, Dimensions and Weights	46-67
Horizontal Mounting Options	68-71
Table of Hydraulic Performances at 3500 RPM	72-77
Table of Hydraulic Performances at 1750 RPM	78-83
Maximum Inlet Pressure	83
Technical Appendix	84-87

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

MOTOR

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

* Based on pump staging

e-SV Characteristics

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

- Vertical multistage centrifugal pump. All metal parts in contact with the pumped liquid are made of stainless steel.
 - The following versions are available:
 - F – ANSI flanges, in-line delivery and suction ports, AISI 304
 - T – Oval flanges (NPT), in-line delivery and suction ports, AISI 304
 - R – ANSI flanges, delivery port above the suction port, with four adjustable positions, AISI 304
 - N – ANSI flanges, in-line delivery and suction ports, AISI 316
 - P – Victaulic couplings, in-line delivery and suction ports, AISI 316
 - G – ANSI flange, in-line delivery and suction parts, Class 35/40B cast iron.
 - C – ISO clamp, AISI 316
 - Innovative axial load compensation system on pumps with higher head. This ensures reduced axial thrusts and enables the use of standard NEMA TC motors that are easily found in the market.
 - Seal housing chamber designed to prevent the accumulation of air in the critical area next to the mechanical seal
 - Mechanical seal according to EN 12756 (ex DIN 24960) and ISO 3069
 - Versions with ANSI flanges that can be coupled to ANSI raised face counter-flanges
 - Threaded oval counter-flanges made of stainless steel are standard supply for the T versions
 - Easy maintenance. No special tools required for assembly or disassembly
 - Standard version for temperatures ranging from: -20°F to 250°F (30°C to 120°C)
-

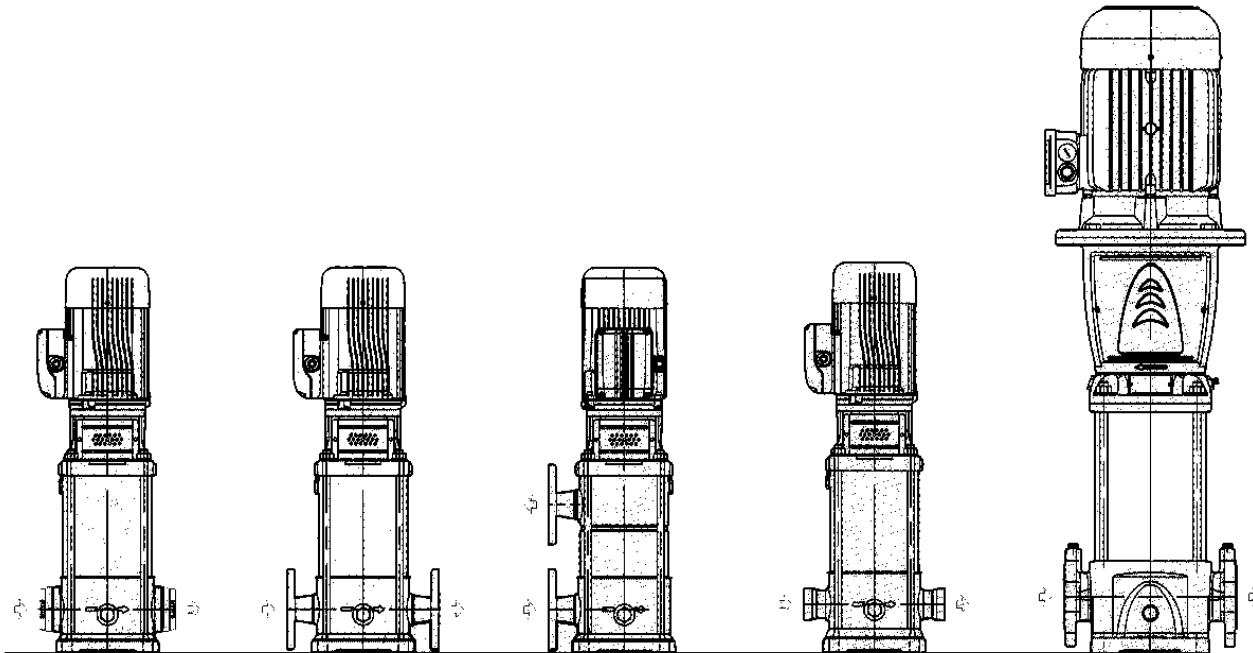
33SV, 46SV, 66SV, 92SV, 125SV Series

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

Optional Features

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

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"	1½"	1½"	1½"	-				
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	1¼"	1¼"	1¼"	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" 125/200#

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

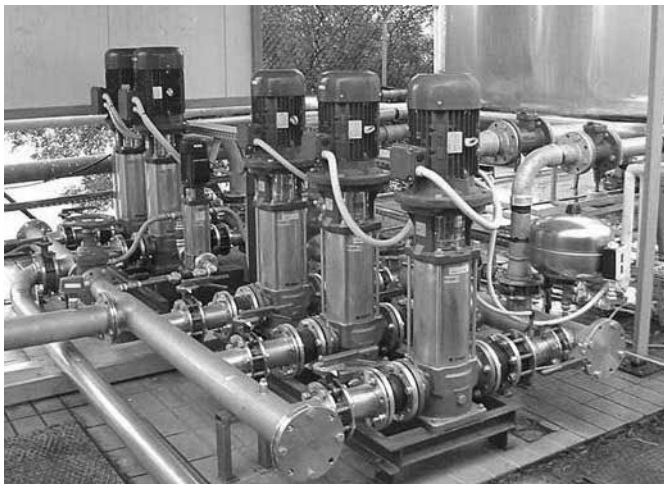
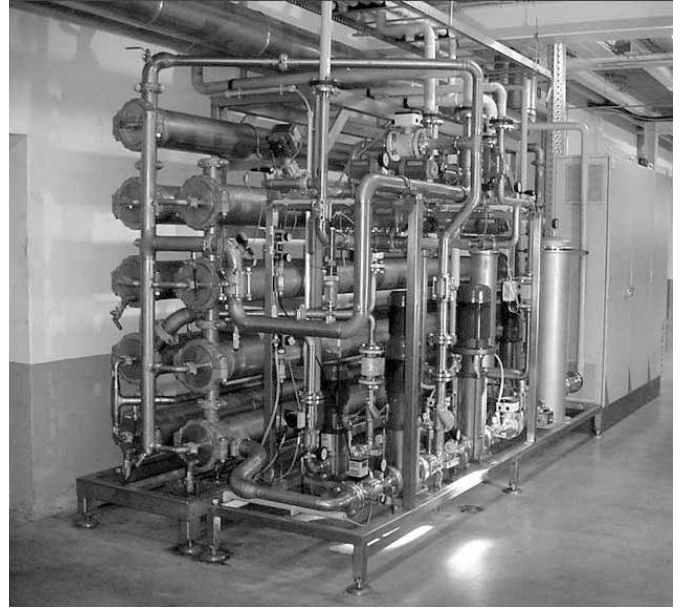
- Washing and cleaning plants (washing and degreasing of mechanical parts, car and truck wash tunnels, washing of electronic industry circuits)
- Commercial washers
- Fire fighting system pumps

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

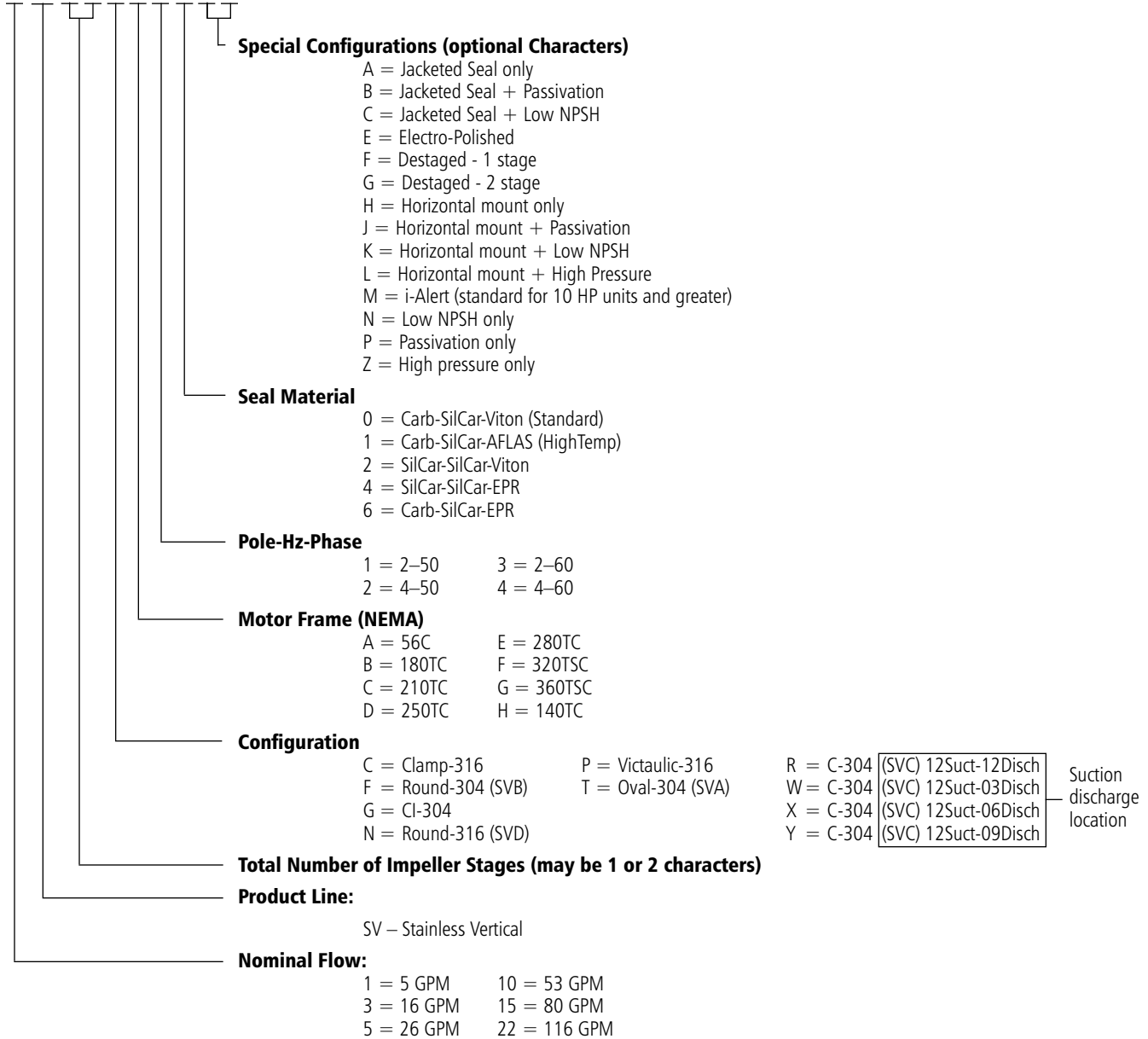
Numbering System for 1 – 22SV Liquid End Only

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



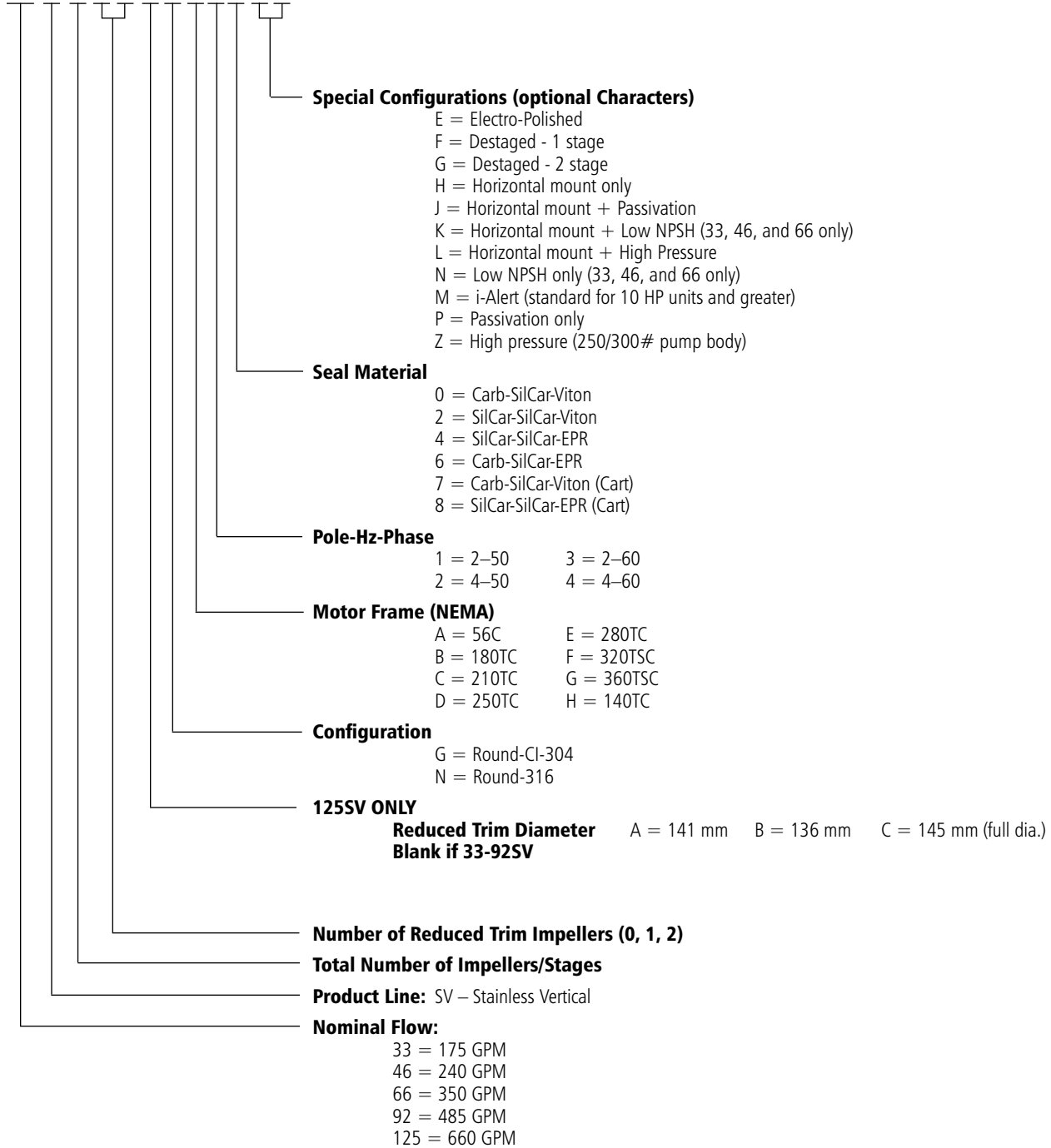
e-SV Product Line Numbering System for 33 – 125SV Liquid End Only

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



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

Seal Material

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

Motor Enclosure

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

Voltage

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

Pole-Hz-Phase

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

HP Rating

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

Configuration OPTION

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

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

Product Line:

SV – Stainless Vertical

Nominal Flow:

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

e-SV Product Line

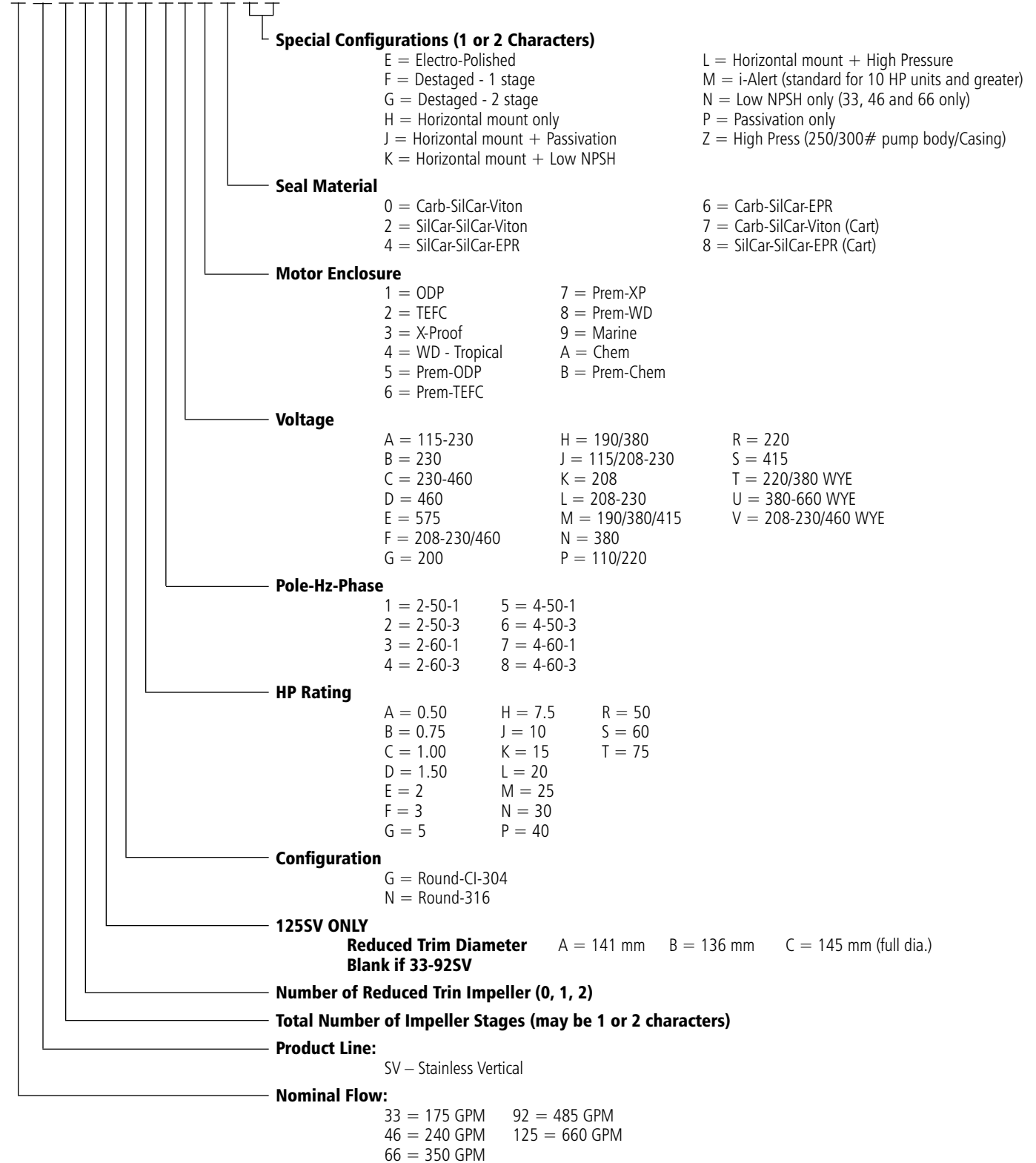
Numbering System for 33 – 125SV Pump & Motor Combination

The various versions of the e-SV line are identified by a product code number on the pump label. This number is also the catalog number for the pump. The meaning of each digit in the product code number is shown below.

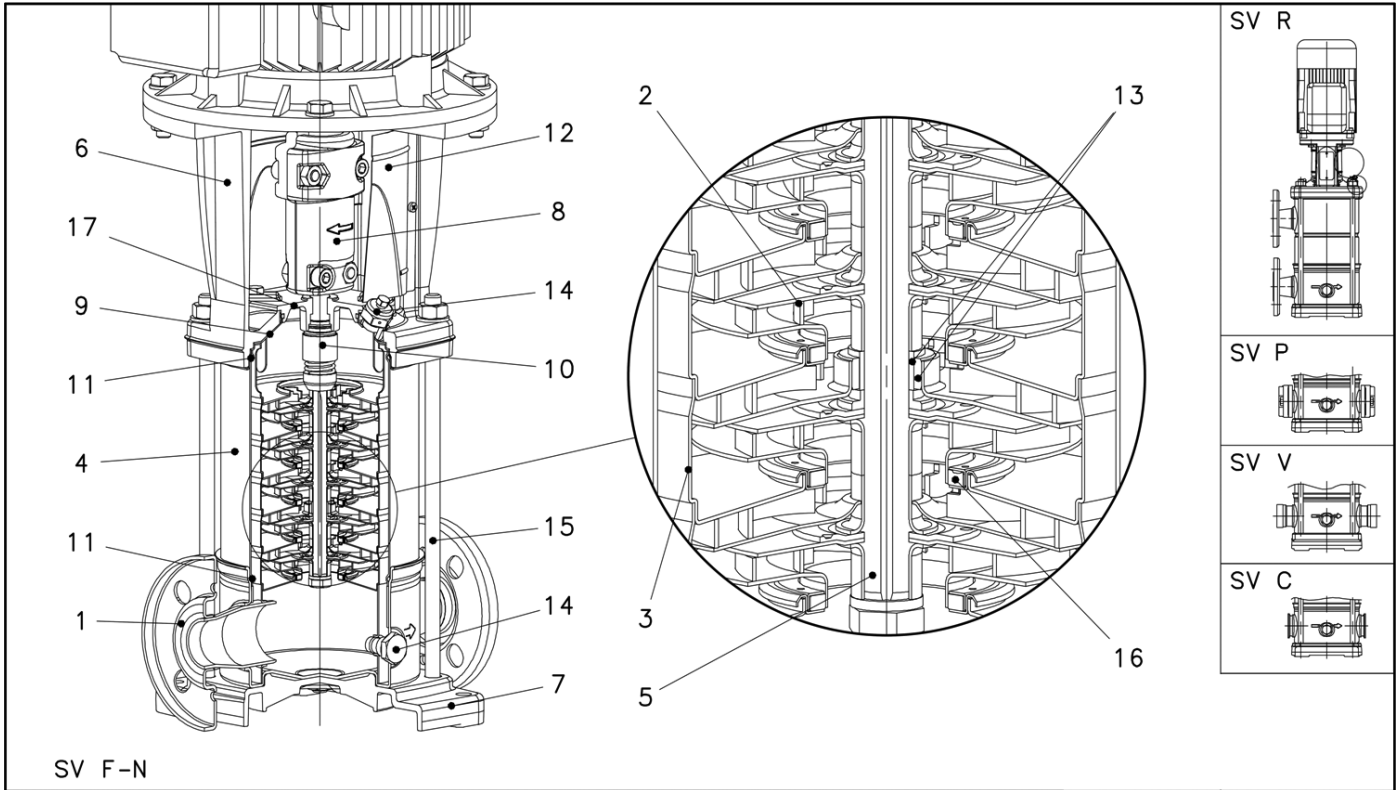
Note: Not all combinations are possible.

Example Product Code

125 SV 8 2 A G K 3 F 2 0



Base Models: 1-22SV
Major Components



Base Models: 1-22SV Major Components

F, P, R VERSIONS

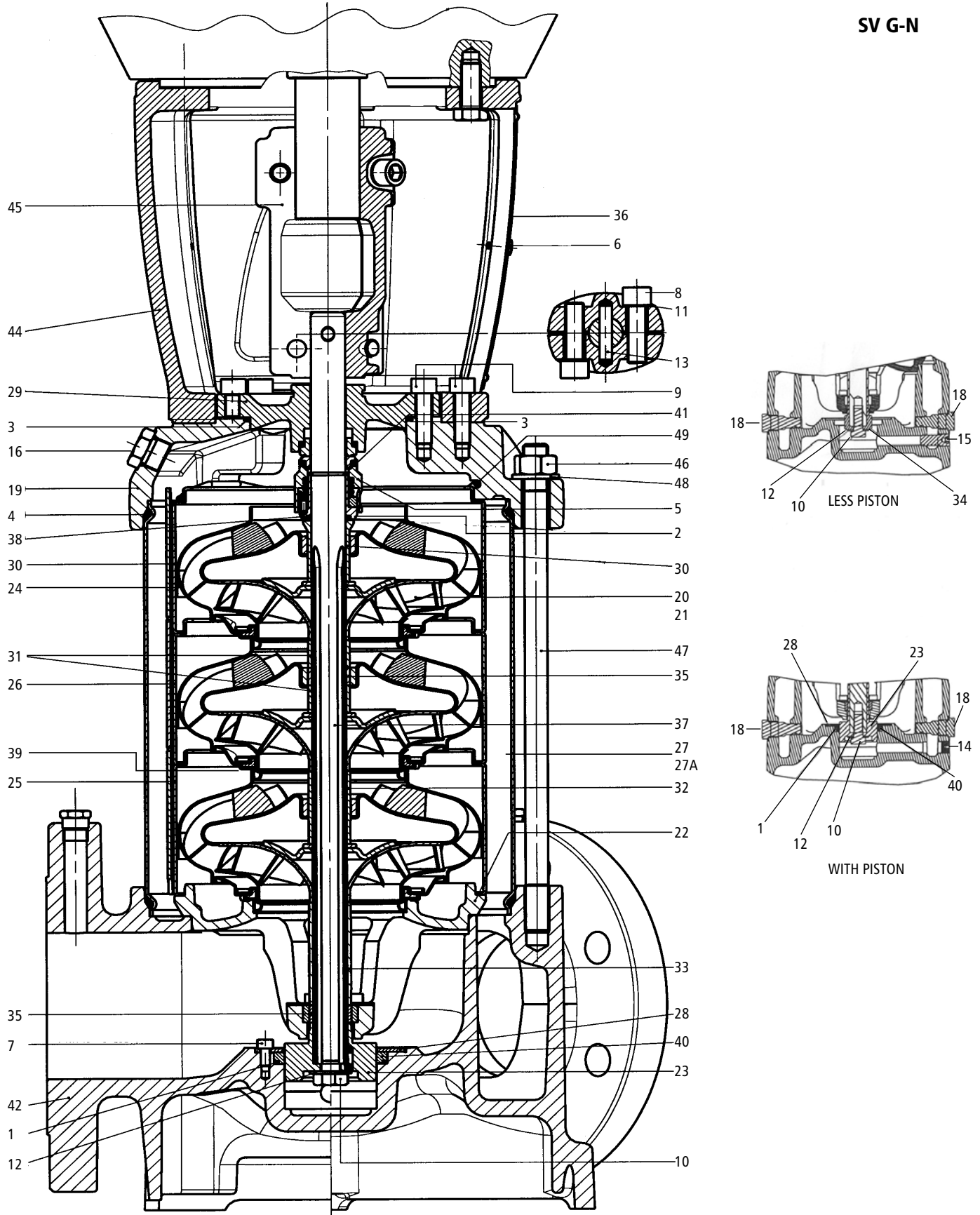
Ref. No.	Name	Material	Reference Standards	
			USA	Europe
1	Pump Body	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
2	Impeller	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
3	Diffuser	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
4	Casing	Stainless Steel	AISI 316L	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	A384.0-F	EN 1706-AC-ALSi11Cu2(Fe) (AC46100)
8	Coupling	Aluminum	A384.0-F	EN 1706-AC-ALSi11Cu2(Fe) (AC46100)
9	Seal Plate	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNi17-12-2 (1.4404)
10	Mechanical Seal	Silicon Carbide / Carbon / Viton (opt. EPDM)		
11	Elastomers	Viton (opt. EPDM)		
12	Coupling Guard	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
13	Shaft Sleeve and Bushing	Tungsten Carbide		
14	Fill/Drain Plugs	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
15	Tie Rods	Carbon Steel / Zinc Plated	A29 Gr. 1045	EN 10277
16	Wear Ring	PPS		
17	Seal Gland	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)

N, P, C VERSIONS

Ref. No.	Name	Material	Reference Standards	
			USA	Europe
1	Pump Body	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
2	Impeller	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
3	Diffuser	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
4	Casing	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
5	Shaft	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
6	Adapter	Cast Iron	ASTM Class 35/40B	EN 1561-GJL-250 (JL1040)
7	Base	Aluminum	A384.0-F	EN 1706-AC-ALSi11Cu2(Fe) (AC46100)
8	Coupling	Aluminum	A384.0-F	EN 1706-AC-ALSi11Cu2(Fe) (AC46100)
9	Seal Plate	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNi17-12-2 (1.4404)
10	Mechanical Seal	Silicon Carbide / Carbon / Viton (opt. EPDM)		
11	Elastomers	Viton (opt. EPDM)		
12	Coupling Guard	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
13	Shaft Sleeve and Bushing	Tungsten Carbide		
14	Fill/Drain Plugs	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)
15	Tie Rods	Carbon Steel / Zinc Plated	A29 Gr. 1045	EN 10277
16	Wear Ring	PPS		
17	Seal Gland	Stainless Steel	AISI 316	EN 10088-1-X2-CrNiMo17-12-2 (1.4401)

Base Model: 33SV, 46SV, 66SV, 92SV and 125SV
Major Components

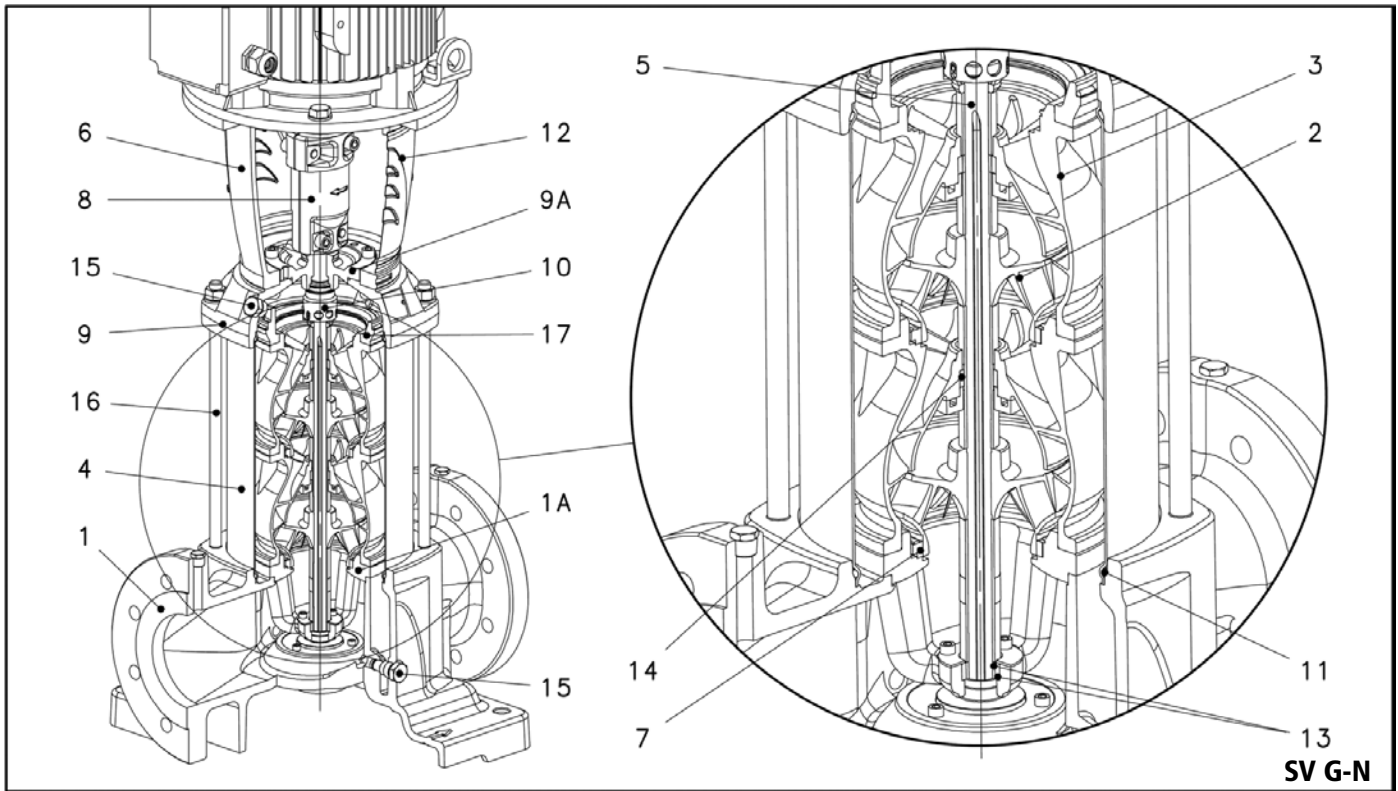
SV G-N



Base Model: 33SV, 46SV, 66SV, 92SV and 125SV
Major Components

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

Base Models: 125SV
Major Components



Base Models: 125SV

Major Components

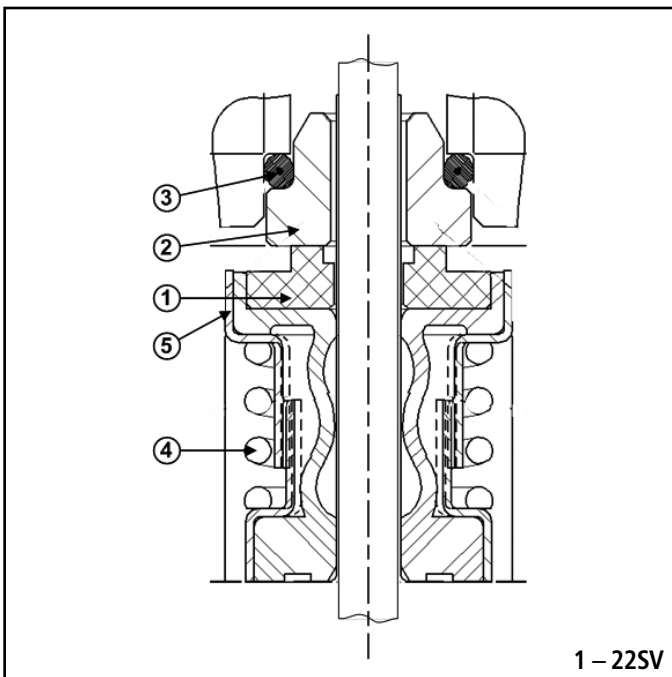
G VERSIONS

Ref. No.	Name	Material	Reference Standards	
			USA	Europe
1	Pump Body	Cast Iron	ASTM Class 35/40B	EN 1561-GJL-250 (JL1040)
2	Impeller	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
3	Diffuser	Stainless Steel	AISI 304	EN 10088-1-X5-CrNi18-10 (1.4301)
4	Casing	Stainless Steel	AISI 316L	EN 10088-1-X2-CrNiMo17-12-2 (1.4404)
5	Shaft	Duplex Stainless Steel	UNS S 31803	EN 10088-1-X17-CrNiMoN22-5-3 (1.4507)
6	Adapter (up to 40HP)	Cast Iron	ASTM Class 25	EN 1561-GJL-200 (JL1040)
	Adapter (50HP and higher)		ASTM Class A536	EN 1561-GJL-500-7 (JS1050)
7	Wear Ring	PPS		
8	Coupling (up to 40HP)	Cast Iron	A384.0-F	EN 1706-AC-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)

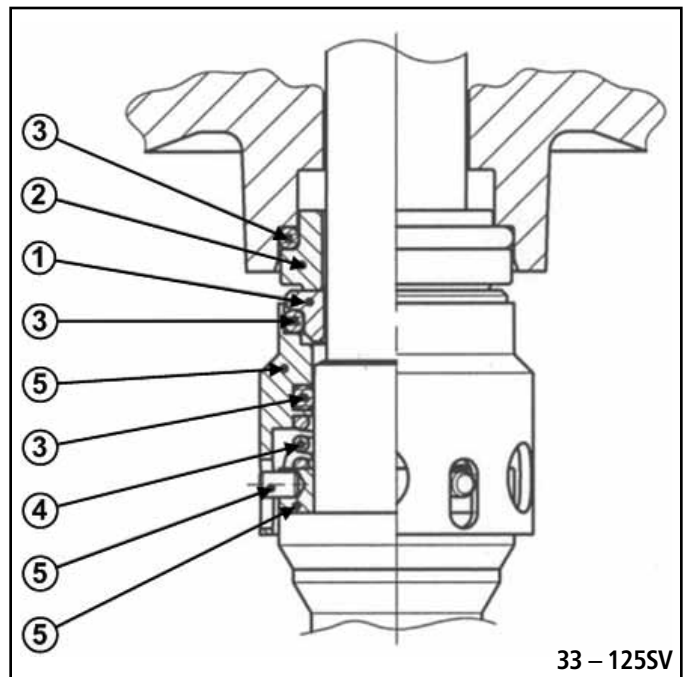
N VERSIONS

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)

e-SV Mechanical Seals



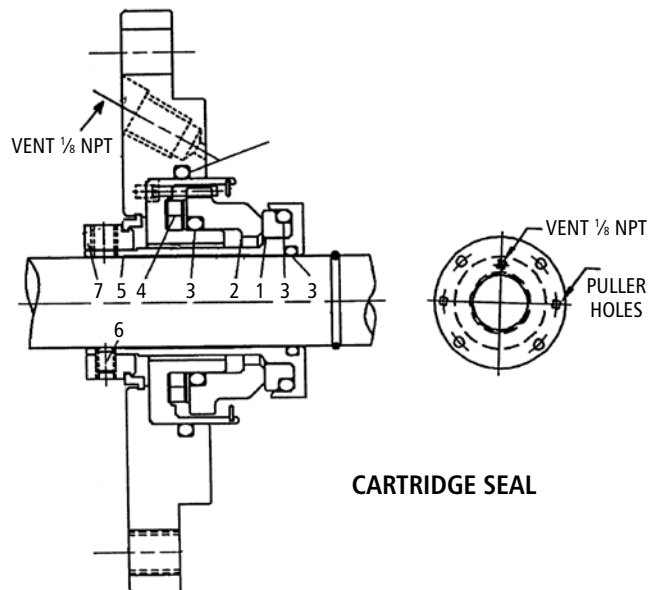
1 – 22SV



33 – 125SV

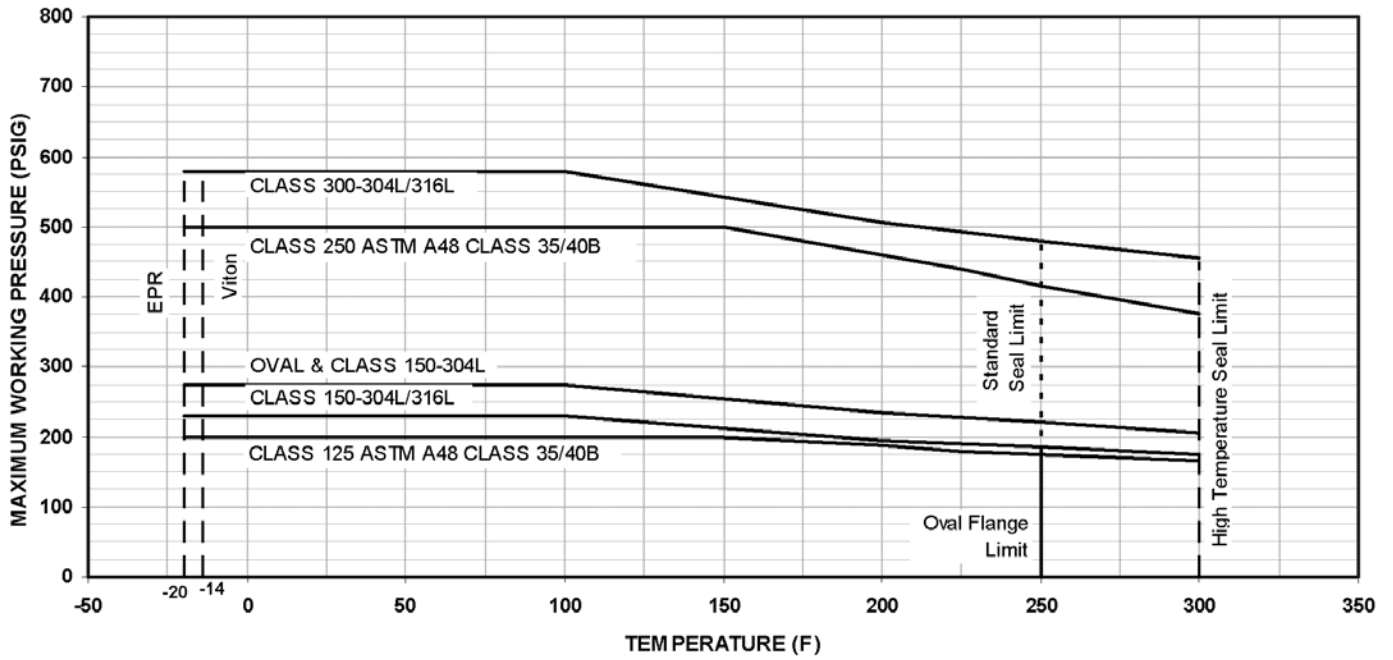
Pump	Code	Rotating Face 1	Stationary Face 2	Elastomers 3	Spring 4	Metal Components 5	Elastomer Temp Limits °F (°C)	Seal Temp Limits °F (°C)	Max. Working Pressure	Application
1SV	0	Carbon	Silicon Carbide Graphite Filled	Viton	316SS	316SS	-14 - 392°F (-10 - 200°C) -30 - 300°F (-34 - 150°C) -14 - 392°F (-10 - 200°C)	-22 - 250°F (-30 - 120°C)	580 psi (40 bar)	General Service
3SV	2	Silicon Carbide Graphite Filled		EPR						Abrasive
5SV	4	Carbon		AFLAS						General Service
10V	6	FDA Grade Carbon								Boiler Feed
15SV	1									
22SV										
33SV	0	Carbon	Silicon Carbide Graphite Filled	Viton	316SS	316SS	-14 - 392°F (-10 - 200°C) -22 - 250°F (-30 - 120°C)	-22 - 250°F (-30 - 120°C)	580 psi (40 bar)	General Service
46SV	2	Silicon Carbide Graphite Filled		EPR						Abrasive
66SV	4	Carbon								General Service
92SV	6	FDA Grade Carbon								Boiler Feed
125SV										

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		Silicon Carbide	EPR				
66SV		Carbon					
92SV		Silicon Carbide					

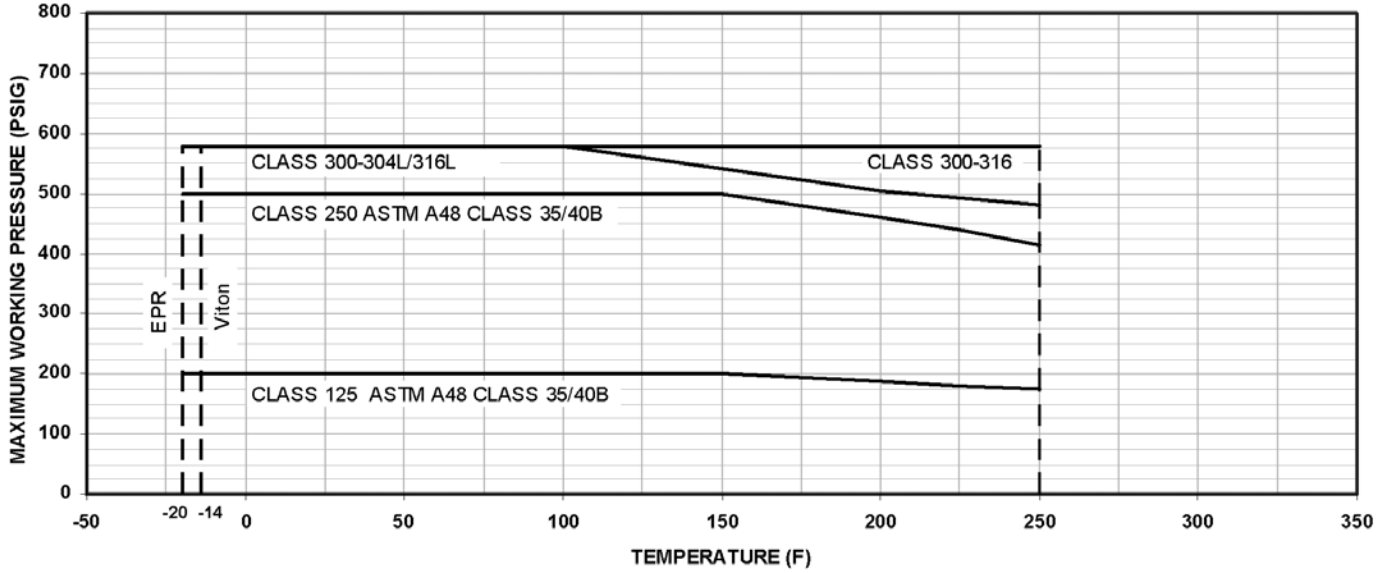


Maximum Allowable Working Pressure Charts

1SV-22SV



33SV-125SV



Motor Data – Starts per Hour / Minimum Run Time

HP	Max Starts per Hour*	Min. 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

3500 RPM, 60Hz

HP	Phase	Enclosure	Nameplate Voltage	NEMA Frame	Goulds PN	FLA	SFA	LRA ①	S.F.	Efficiency	Insulation Class
½	1	ODP	115/230	56C	V04721	7/3.6-3.5	7.9/4.06-3.95	21	1.15	66	B
		TEFC	115/230	56C	V04722	7/3.6-3.5	7.9/4.06-3.95	21	1.15	66	B
	3	ODP	230/460	56C	V04741	2.1/2-1	2.52/2.4-1.2	6	1.25	68	B
		TEFC	230/460	56C	V04742	2.1/2-1	2.52/2.4-1.2	6	1.25	68	B
		X-Proof	230/460	56C	V04743	2.1/2-1	NA	6	1	68	B
¾	1	ODP	115/230	56C	V05721	9.4/4.9-4.7	10.8/5.63-5.4	26	1.25	72	B
		TEFC	115/230	56C	V05722	9.6/5-4.8	11.4/5.94-5.7	28	1.25	66	B
	3	ODP	230/460	56C	V05741	2.7-2.6/1.3	3.15-3/1.5	7.6	1.25	74	B
		TEFC	230/460	56C	V05742	2.7-2.6/1.3	3.15-3/1.5	7.6	1.25	74	B
		X-Proof	230/460	56C	V05743	2.7-2.6/1.4	NA	7.6	1	74	B
		Prem. Eff. TEFC	230/460	56C	V05742PE	2.0/1.0	2.3/1.15	7	1.15	82.5	B
1	1	ODP	115/230	56C	V06721	15/7.9-7.5	15.8/8.217.9	48	1.25	65	B
		TEFC	115/230	56C	V06722	11/5.5	13.5/6.75	38.5	1.25	66	B
	3	ODP	230/460	56C	V06741	3.7-3.6/1.8	3.99-3.8/1.9	11	1.25	75.5	B
		TEFC	230/460	56C	V06742	3.7-3.6/1.8	3.99-3.8/1.9	11	1.25	75.5	B
		X-Proof	230/460	56C	V06743	3.7-3.6/1.9	NA	11	1	75.5	B
		Prem. Eff. TEFC	230/460	56C	V06742PE	2.8/1.4	3.12/1.56	12.1	1.25	84.5	B
1½	1	ODP	115/230	56C	V07721	12.8/7-6.4	14.5/7.9-7.3	76	1.15	80	B
		TEFC	115/230	56C	V07722	16/8.4-8	18/10-9	50	1.15	70	B
	3	ODP	230/460	56C	V07741	4.9-4.6/2.3	5.3-5.1/2.54	18.4	1.15	80	B
		TEFC	230/460	56C	V07742	4.9-4.6/2.3	5.3-5.1/2.54	18.4	1.15	80	B
		X-Proof	230/460	56C	V07743	5-4.6/2.3	NA	16	1	75.5	B
		Prem. Eff. ODP	230/460	56C	V07741PE	4.2/2.1	4.6/2.3	16	1.15	85.5	B
Prem. Eff. TEFC	230/460	56C	V07742PE	4.0/2.0	4.5/2.25	20.1	1.15	85.5	B		
2	1	ODP	115/230	56C	V08721	24/12.6-12	28.6/14.3	80	1.15	70	B
		TEFC	115/230	56C	V08722	23/12-11.5	24.2/12.1	78	1.15	74	B
	3	ODP	208-230/460	56C	V08741	6.2-5.8/2.9	7.2-6.52/3.26	22	1.15	80	B
		TEFC	208-230/460	56C	V08742	6.2-5.8/2.9	7.2-6.52/3.26	22	1.15	80	B
		X-Proof	208-230/460	56C	V08743	5.4/2.7	N/A	17.5	1	78.5	B
		Prem. Eff. ODP	208-230/460	56C	V08741PE	5.5-5/2.5	6.2-5.6/2.8	22	1.15	86.5	B
Prem. Eff. TEFC	208-230/460	56C	V08742PE	5/4.75-2.5	6.4-5.8/2.9	30	1.15	86.5	B		
3	1	ODP	230	56C	V09721	14.4/13	16.4-14.8	108	1.15	82.5	B
		TEFC	115/230	56C	V09722	27/13.5	33/18/16.5	11.4	1.15	80	F
	3	ODP	208-230/460	56C	V09741	8.5-8/4	10-9/4.5	30.9	1.15	80	F
		TEFC	208-230/460	56C	V09742	8.1-7.6/3.8	9.5-8.6/4.3	32.9	1.15	82.5	F
		X-Proof	208-230/460	56C	V09743	7.8-7.4/3.7	NA	27	1	82.5	F
		Prem. Eff. ODP	208-230/460	56C	V09741PE	7.4/3.7	9.1-8.2/4.1	29	1.15	87.5	F
Prem. Eff. TEFC	208-230/460	184TC	V09742PE	6.8/3.4	8.5-7.7/3.8	32	1.15	88.5	F		
5	1	ODP	208-230	184TC	V10721A	24-23	30.1-27.2	125	1.15	75	F
		TEFC	208-230	184TC	V10722A	23.5	41.8-37.8	110	1.15	84	F
	3	ODP	208-230/460	184TC	V10741A	13.1-11.5/5.7	15.3-13.8/6.9	48	1.15	84	F
		TEFC	208-230/460	184TC	V10742A	13.2-12/6	15-13.6/6.8	47	1.15	85.5	F
		X-Proof	230/460	184TC	V10743A	13.2-12/6	NA	47	1	85.5	F
		Prem. Eff. ODP	208-230/460	184TC	V10741APE	11.2/5.6	14.4-13/6.5	55	1.15	90.2	B
Prem. Eff. TEFC	208-230/460	184TC	V10742APE	11.2/5.7	14.4-13/6.5	55	1.15	90.2	F		

Motor Data

3500 RPM, 60Hz

HP	Phase	Enclosure	Nameplate Voltage	NEMA Frame	Goulds PN	FLA	SFA	LRA ①	S.F.	Efficiency	Insulation Class
7.5	1	ODP	230	213TC	V11721	29	35	185	1.15	84	F
		TEFC	230	213TC	V11722	35	NA	220	1	83	F
	3	ODP	208-230/460	184TC	V11741A	19	22.3-20.2/10.1	76	1.15	88.5	F
		TEFC	208-230/460	184TC	V11742A	18.5/17.4	21.7-19.6/9.8	94	1.15	88.5	F
		X-Proof	230/460	184TC	V11743A	17.6/8.8	N/A	76	1.15	87.5	B
		Prem. Eff. ODP	208-230/460	184TC	V11741APE	16.8/8.4	21.2-19.2/9.6	87	1.15	90.2	F
Prem. Eff. TEFC	230/460	213TC	V11742APE	17.8/8.9	20.2/10.1	75	1.15	90.2	F		
10	1	ODP	230	213TC	V12721	48-46	51.6	280	1.15	83	F
		TEFC	230	213TC	V12722	40	NA	284	1	82	F
	3	ODP	208-230/460	213TC	V12741	25.6-23.2/11.6	29.9-27/13.5	67	1.15	88.5	F
		TEFC	208-230/460	215TC	V12742	25-24/12	30.5-27.6/13.8	105	1.15	85.5	F
		X-PROOF	230/460	215TC	V12743	23.2/11.6	35.2/17.6	99.2	1.15	89.5	F
		Prem. Eff. ODP	208-230/460	213TC	V12741PE	23/11.5	29.2-26.4/13.2	98	1.15	91.7	F
Prem. Eff. TEFC	230/460	215TC	V12742PE	23.8/11.9	27.6/13.8	112	1.15	89.5	F		
15	3	ODP	208-230/460	215TC	V13741	35/17.5	43.8-39.6/19.8	124	1.15	89.5	F
		TEFC	208-230/460	254TC	V13742	35/17.5	43-39/19.5	165	1.15	86.5	F
		X-Proof	230/460	254TC	V13743	35.6/16.8	38.8/19.4	108	1.15	90.2	F
		Prem. Eff. ODP	208-230/460	215TC	V13741PE	34/17	43.8-39.6/19.8	143	1.15	91.7	F
		Prem. Eff. TEFC	208-230/460	254TC	V13742PE	34.4/17.2	43.8-39.6/19.8	112	1.15	91.7	F
20	3	ODP	230/460	254TC	V14741	46/23	51.4/25.7	175	1.15	87.5	F
		TEFC	208-230/460	256TC	V14742	46/23	59.3-53.6/26.8	160	1.15	89.5	F
		X-Proof	230/460	256TC	V14743	46/23	51.6/25.8	153	1.15	90.2	F
		Prem. Eff. ODP	208-230/460	254TC	V14741PE	45/22.5	57.5-52/26	144.8	1.15	92.4	F
		Prem. Eff. TEFC	208-230/460	256TC	V14742PE	46/23	57.5-52/26	201	1.15	92.4	F
25	3	ODP	230/460	256TC	V15741	60/30	75.9-68.6/34.3	160	1.15	88.5	F
		TEFC	230/460	284TC	V15742	59/29.5	74.8-67.6/33.8	182	1.15	88.5	F
		X-Proof	230/460	284TC	V15743	57/28.5	66/33	204	1.15	91	F
		Prem. Eff. ODP	230/460	256TC	V15741PE	58/29	66.8/33.4	204	1.15	92.4	F
		Prem. Eff. TEFC	230/460	284TC	V15742PE	56/28	69.9-63.2/31.6	236	1.15	93	F
30	3	ODP	230/460	284TC	V16741	70/35	80.6/40.3	190	1.15	91	F
		TEFC	230/460	284TC	V16742	68/34	86.7-78.4/39.2	225	1.15	91	F
		X-Proof	230/460	286TC	V16743	70/35	80.5/40.25	248	1.15	91	F
		Prem. Eff. ODP	230/460	284TC	V16741PE	68/34	77.4/38.7	234	1.15	93.6	F
		Prem. Eff. TEFC	230/460	286TC	V16742PE	66/33	83.8-75.8/37.9	281	1.15	93	F
40	3	ODP	230/460	284TC	V17741	96/48	108.4/54.2	271	1.15	91	F
		TEFC	230/460	284TC	V17742	90/45	103.2/51.6	322	1.15	90.2	F
		X-Proof	230/460	324TSC	V17743	90/45	104.2/52.1	285	1.15	91.7	F
		Prem. Eff. ODP	230/460	286TC	V17741PE	110/55	127.4/63.7	408	1.15	94.1	F
		Prem. Eff. TEFC	230/460	324TSC	V17742PE	90/45	102.2/51.1	286	1.15	93.6	F
50	3	ODP	230/460	326TSC	V18741S	118/59	137/68.5	320	1.15	89.5	F
		TEFC	230/460	326TSC	V18742S	112/56	141.8-128.2/64.1	430	1.15	92.4	F
		X-Proof	230/460	326TSC	V18743S	112.00/56	129/64.5	407	1.15	92.4	F
		Prem. Eff. ODP	230/460	324TSC	V18741SPE	110/55	127.4/63.7	408	1.15	94.1	F
		Prem. Eff. TEFC	230/460	326TSC	V18742SPE	108/54	124.8/62.4	422	1.15	94.1	F

Motor Data

HP	Phase	Enclosure	Nameplate Voltage	NEMA Frame	Goulds PN	FLA	SFA	LRA ①	S.F.	Efficiency	Insulation Class
60	3	ODP	230/460	326TSC	V19741S	136/68	157.4/78.7	472	1.15	93	F
		TEFC	230/460	364TSC	V19742S	138/69	173.6-157/78.5	422	1.15	90.2	F
		X-Proof	230/460	364TSC	V19743S	134/67	154.4/77.2	448	1.15	93	F
		Prem. Eff. ODP	230/460	326TSC	V19741SPE	130/65	149.4/74.7	493	1.15	94.5	F
		Prem. Eff. TEFC	230/460	364TSC	V19742SPE	134/67	150.8/75.4	580	1.15	94.1	F
75	3	ODP	230/460	365TSC	V20741S	168/84	213-193/96.5	639	1.15	93	F
		TEFC	230/460	365TSC	V20742S	168/84	213-192.8/96.4	650	1.15	91	F
		X-Proof	230/460	365TSC	V20743S	164/82	189/94.5	618	1.15	93	F
		Prem. Eff. ODP	230/460	364TSC	V20741SPE	164/82	188.8/94.4	557	1.15	94.5	F
		Prem. Eff. TEFC	230/460	365TSC	V20742SPE	166/83	188.8/94.4	740	1.15	94.5	F

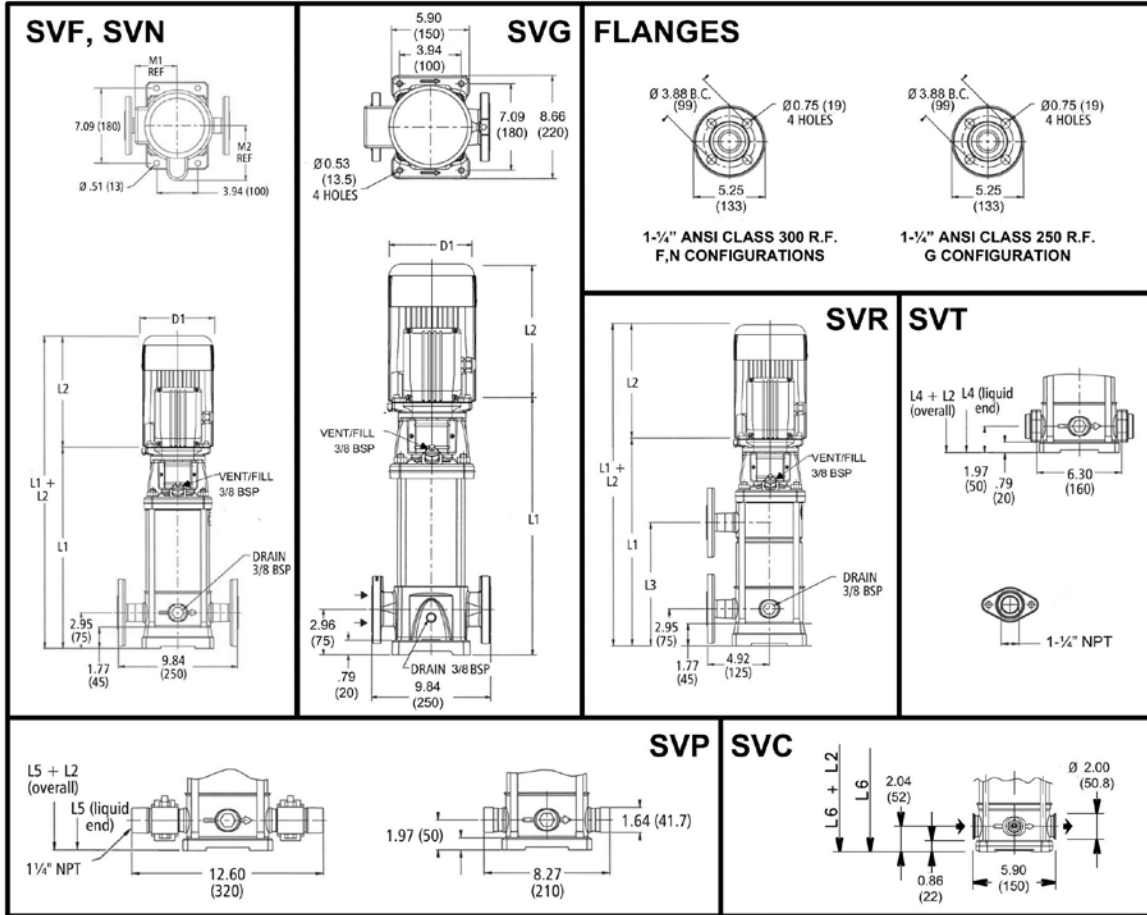
NOTES:

① Locked rotor amps are for high voltage only.

- Motors are suitable for HYDROVAR® Variable Speed Drive.

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

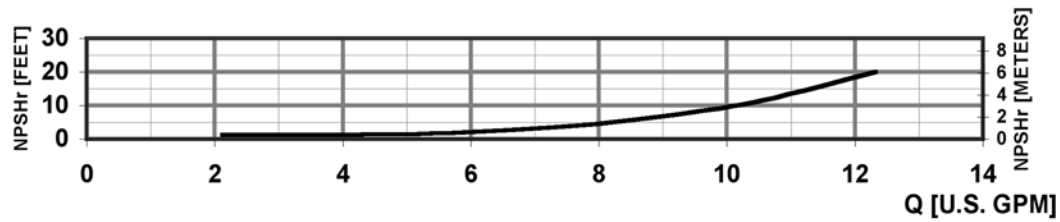
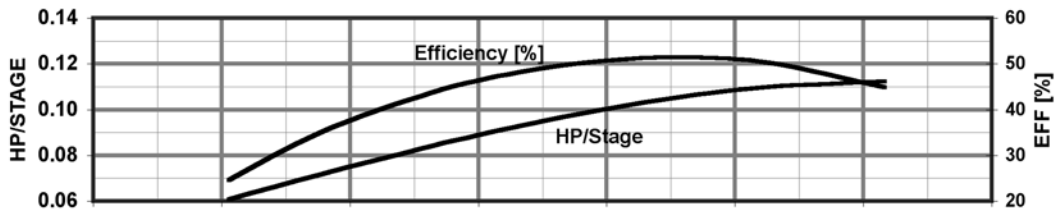
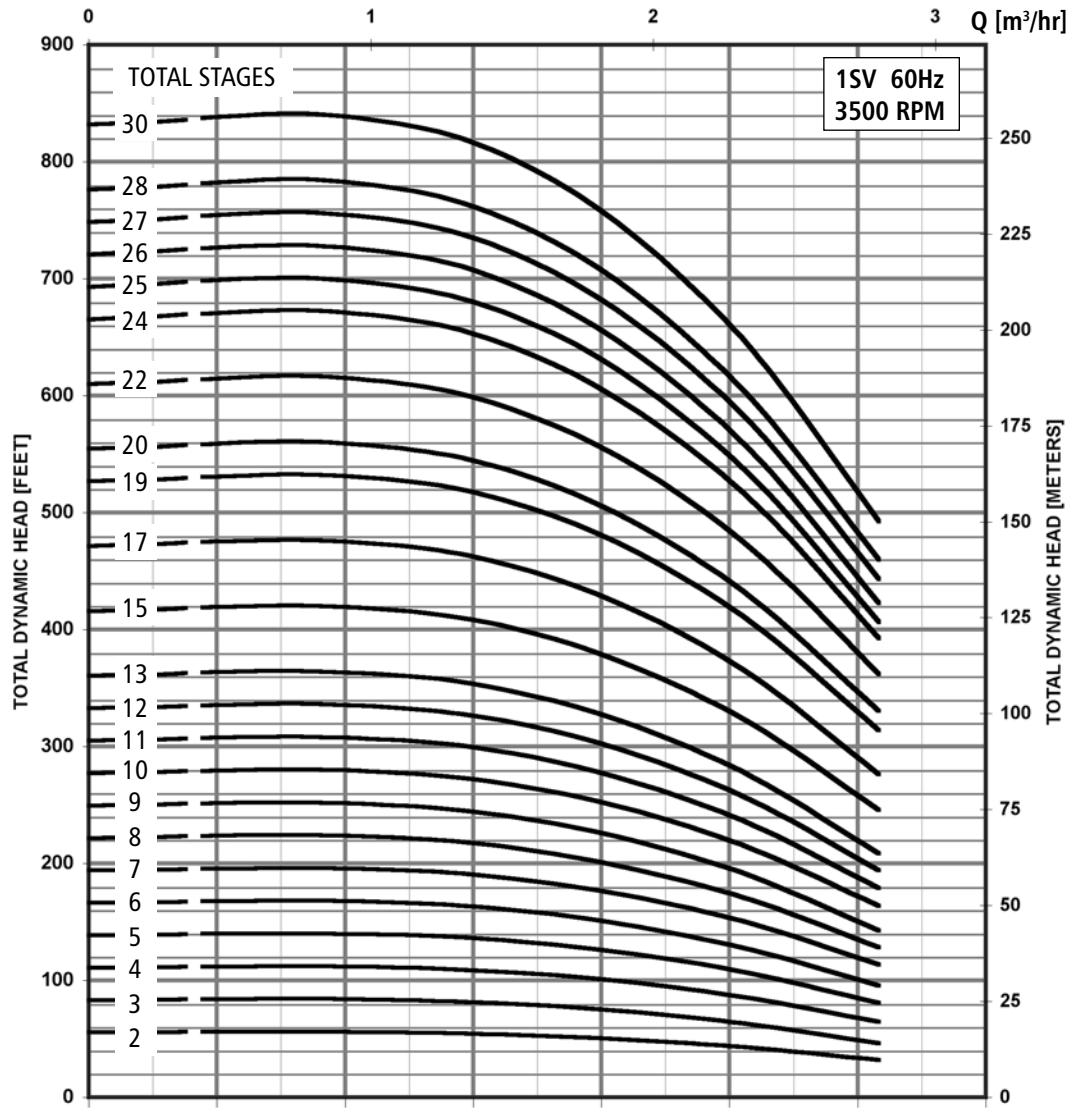
Dimensions and Weights 1SV Series 3500 RPM



All dimensions are in inches (mm).

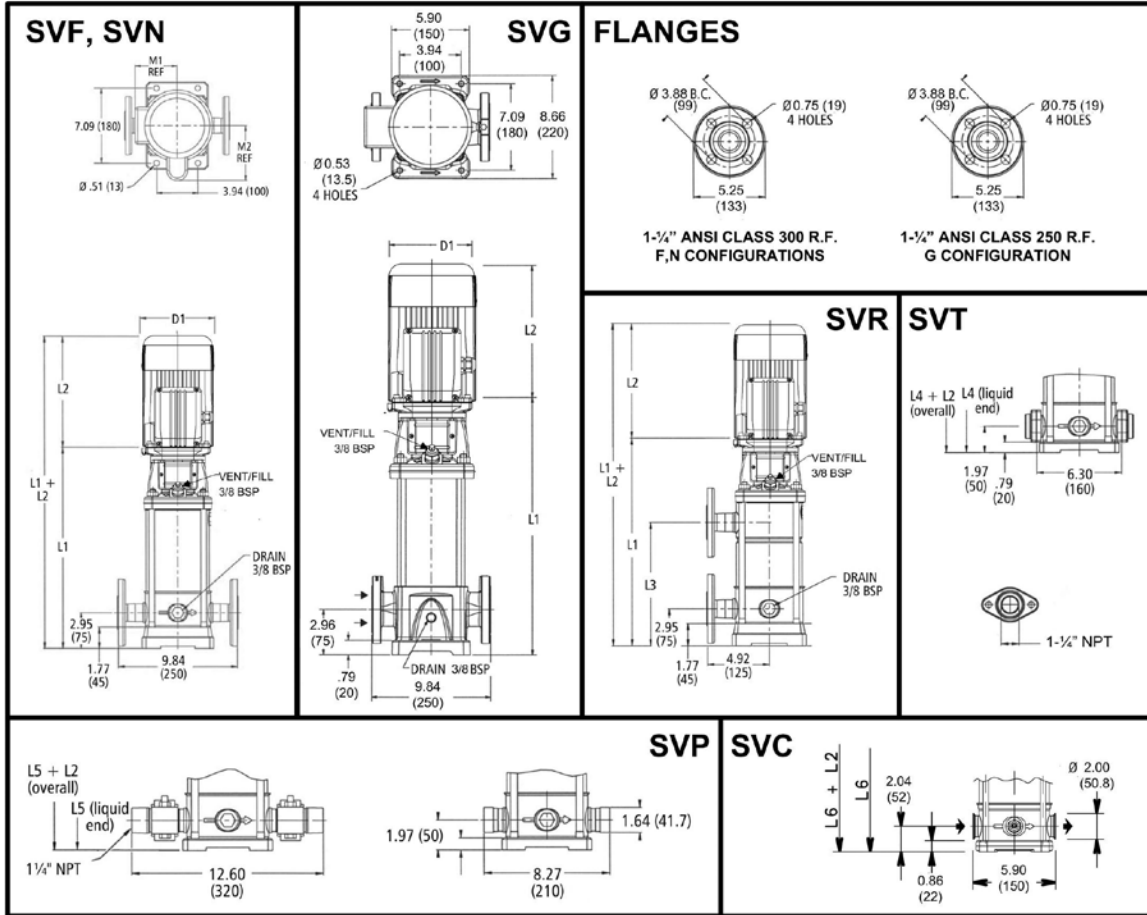
Pump Type Stages	Motor					Dimensions (in)											Weight (lbs.)													
	HP	NEMA Frame				L1	L2					L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump Only	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø						TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø			TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	
1SV-02	0.5	56C	13.24	9.16	9.29	9.16	9.29	-	-	9.96	9.96	5.19	6.2	6.19	6.19	6.19	4.13	21	21	21	19	19	42	42	40	40				
1SV-03			13.24	9.16	9.29	9.16	9.29	-	-	9.96	9.96	5.19	6.2	6.19	6.19	6.19	4.13	21	21	21	19	19	42	42	40	40				
1SV-04			14.03	9.16	9.29	9.16	9.29	-	-	10.75	10.75	5.19	6.2	6.19	6.19	6.19	4.13	23	21	21	19	19	43	43	41	41				
1SV-05			14.82	9.16	9.29	9.16	9.29	-	-	11.54	11.54	5.19	6.2	6.19	6.19	6.19	4.13	23	21	21	19	19	44	44	42	42				
1SV-06			15.61	10.79	9.91	9.16	9.29	-	-	12.32	12.32	5.19	6.19	6.19	6.19	6.19	4.13	24	21	21	19	19	45	45	43	43				
1SV-07			16.39	10.79	9.91	9.16	9.29	14.09	8.15	13.11	13.11	5.19	6.19	6.19	6.19	6.19	4.13	25	27	29	21	21	52	54	46	46				
1SV-08			17.18	10.79	9.91	9.16	9.29	14.88	8.94	13.9	13.9	5.19	6.19	6.19	6.19	6.19	4.13	25	27	29	21	21	52	54	46	46				
1SV-09			17.97	10.79	9.91	9.16	9.29	15.67	9.72	14.69	14.69	5.74	6.19	6.19	6.19	6.19	4.13	26	27	29	21	21	53	55	47	47				
1SV-10			18.76	10.79	9.91	9.16	9.29	16.46	10.51	15.47	15.47	5.74	6.19	6.19	6.19	6.19	4.13	27	27	29	21	21	54	56	48	48				
1SV-11			19.54	10.66	11.19	9.16	9.29	17.24	11.3	16.26	16.26	5.74	6.2	7.19	6.19	6.19	4.13	28	32	40	23	23	60	68	51	51				
1SV-12			20.73	10.66	11.19	9.16	9.29	18.43	12.09	17.44	17.44	5.74	6.2	7.19	6.19	6.19	4.13	30	32	40	23	23	62	70	53	53				
1SV-13			21.15	10.66	11.19	9.16	9.29	19.21	12.87	18.23	18.23	5.74	6.2	7.19	6.19	6.19	4.13	31	32	40	23	23	63	71	54	54				
1SV-14			19.99	10.67	11.19	10.66	9.91	19.99	13.65	19.01	19.01	6.52	6.2	7.19	6.20	6.19	4.72	32	32	40	30	28	64	72	62	60				
1SV-15			22.73	10.67	11.19	10.66	9.91	20.79	14.45	19.8	19.8	5.74	6.2	7.19	6.20	6.19	4.72	33	32	40	30	28	65	73	63	61				
1SV-16			23.51	10.67	11.19	10.66	9.91	21.57	15.23	20.58	20.58	6.52	6.2	7.19	6.20	6.19	4.72	35	32	40	30	28	67	75	65	63				
1SV-17			24.30	10.67	11.19	10.66	9.91	22.36	16.02	21.38	21.38	5.74	6.2	7.19	6.20	6.19	4.72	37	32	40	30	28	69	77	67	65				
1SV-18			25.08	10.67	11.19	10.66	9.91	23.14	16.8	22.16	22.16	6.52	6.2	7.19	6.20	6.19	4.72	38	32	40	30	28	70	78	68	66				
1SV-19			25.88	10.67	11.19	10.66	9.91	23.94	17.6	22.95	22.95	5.74	6.2	7.19	6.20	6.19	4.72	39	32	40	30	28	71	79	69	67				
1SV-20			26.66	11.18	12.06	11.16	10.79	24.72	18.38	23.73	23.73	6.52	7.19	7.19	6.20	6.19	4.72	40	43	51	32	33	83	91	72	73				
1SV-21			27.44	11.18	12.06	11.16	10.79	25.5	19.16	24.51	24.51	7.3	7.19	7.19	6.20	6.19	4.72	41	43	51	32	33	84	92	73	74				
1SV-22	28.24	11.18	12.06	11.16	10.79	26.3	19.96	25.31	25.31	5.75	7.19	7.19	6.20	6.19	4.72	42	43	51	32	33	85	93	74	75						
1SV-23	29.02	11.18	12.06	11.16	10.79	27.08	20.74	26.09	26.09	6.53	7.19	7.19	6.20	6.19	4.72	44	43	51	32	33	87	95	76	77						
1SV-24	29.80	11.18	12.06	11.16	10.79	27.86	21.52	26.87	26.87	7.31	7.19	7.19	6.20	6.19	4.72	46	43	51	32	33	89	97	78	79						
1SV-25	30.60	11.57	13.44	11.18	11.16	29.06	22.32	28.07	28.07	5.75	6.5	7.19	7.16	7.19	5.51	46	49	64	41	44	95	110	87	90						
1SV-26	31.38	11.57	13.44	11.18	11.16	29.84	23.1	28.85	28.85	6.53	6.5	7.19	7.16	7.19	5.51	48	49	64	41	44	97	112	89	92						
1SV-27	32.17	11.57	13.44	11.18	11.16	30.63	23.9	29.64	29.65	5.75	6.5	7.19	7.16	7.19	5.51	48	49	64	41	44	97	112	89	92						
1SV-28	32.95	11.57	13.44	11.18	11.16	31.41	24.68	30.42	30.43	6.53	6.5	7.19	7.16	7.19	5.51	50	49	64	41	44	99	114	91	94						
1SV-29	33.73	11.57	13.44	11.18	11.16	32.19	25.46	31.2	31.21	7.31	6.5	7.19	7.16	7.19	5.51	51	49	64	41	44	100	115	92	95						
1SV-30	34.54	11.57	13.44	11.18	11.16	32.99	26.26	31.99	32.01	8.09	6.5	7.19	7.16	7.19	5.51	51	49	64	41	44	100	115	92	95						

1SV Curve 3500 RPM



MINIMUM FLOW RATE: 2 GPM [$\frac{1}{2}$ m³/hr]

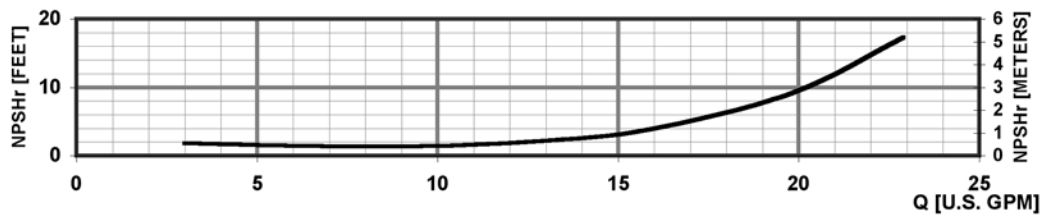
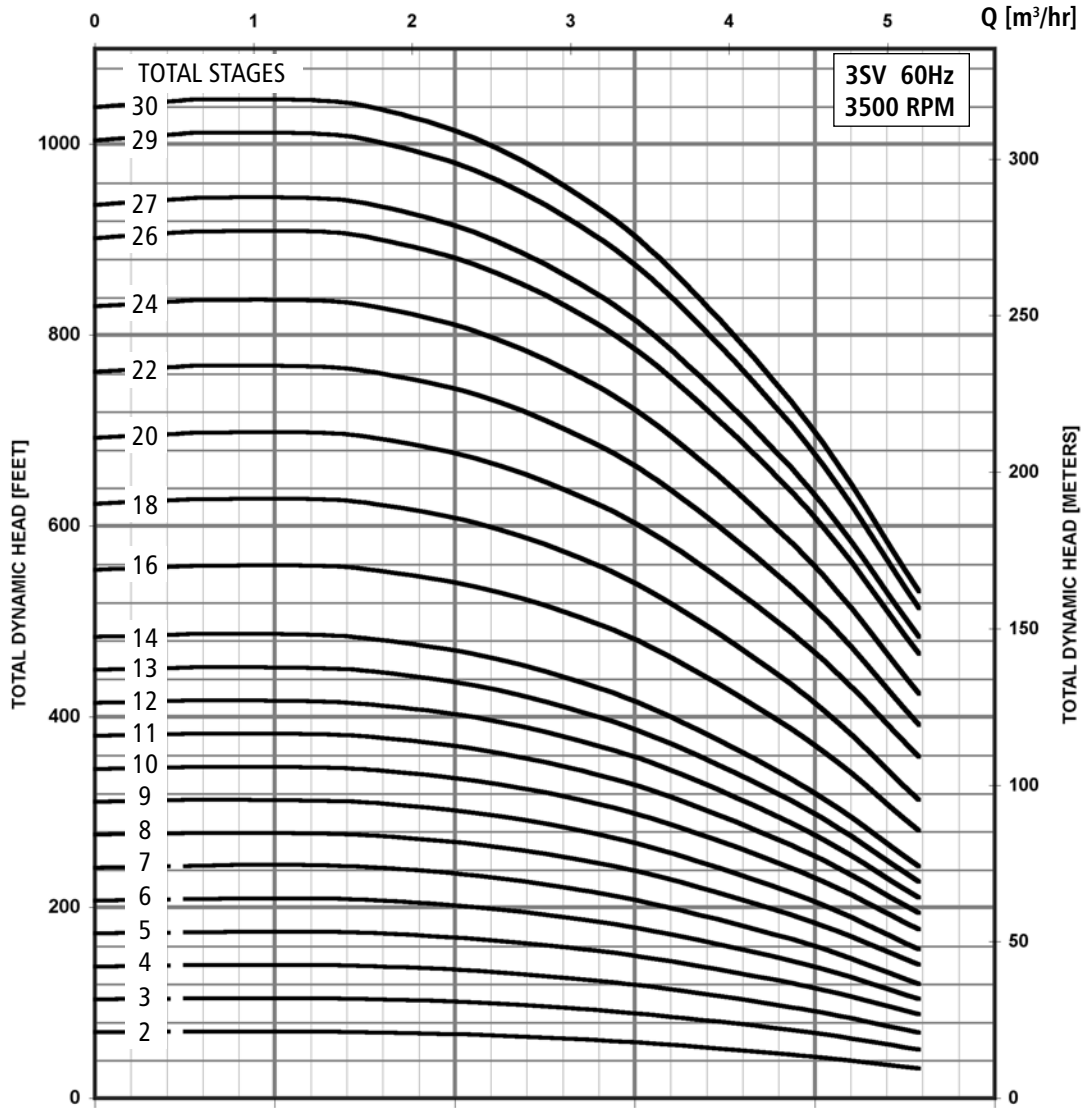
Dimensions and Weights
3SV Series 3500 RPM



All dimensions are in inches (mm).

Pump Type	HP	Motor				Dimensions (in)											Weight (lbs.)												
		NEMA Frame				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	
3SV-02	0.5					13.24	9.16	9.29	9.16	9.29	-	-	9.96	9.96	5.19	6.20	6.19	6.19	6.19	4.13	26	21	21	19	19	47	47	45	45
3SV-03						13.24	9.16	9.29	9.16	9.29	-	-	9.96	9.96	5.19	6.20	6.19	6.19	6.19	4.13	27	21	21	19	19	48	48	46	46
3SV-04	0.75					14.03	10.79	9.91	9.16	9.29	-	-	10.75	10.75	5.19	6.19	6.19	6.19	6.19	4.13	28	27	29	21	21	55	57	49	49
3SV-05	1					14.82	10.66	11.19	9.16	9.29	-	-	11.54	11.54	5.74	6.20	7.19	6.19	6.19	4.13	29	32	40	23	23	61	69	52	52
3SV-06						15.61	10.67	11.19	10.66	9.91	-	-	12.32	12.32	5.74	6.20	7.19	6.20	6.19	4.72	30	32	40	30	28	62	70	60	58
3SV-07	1.5					16.79	10.67	11.19	10.66	9.91	14.49	8.15	13.50	13.50	5.74	6.20	7.19	6.20	6.19	4.72	32	32	40	30	28	64	72	62	60
3SV-08						17.18	11.18	12.06	11.16	10.79	15.28	8.94	14.29	14.29	5.74	7.19	7.19	6.20	6.19	4.72	33	43	51	32	33	76	84	65	66
3SV-09	2					17.96	11.18	12.06	11.16	10.79	16.06	9.72	15.08	15.08	5.74	7.19	7.19	6.20	6.19	4.72	34	43	51	32	33	77	85	66	67
3SV-10						18.75	11.18	12.06	11.16	10.79	16.85	10.51	15.87	15.87	5.74	7.19	7.19	6.20	6.19	4.72	35	43	51	32	33	78	86	67	68
3SV-11						19.54	11.57	13.44	11.18	11.16	17.64	11.30	16.65	16.65	5.75	6.50	7.19	7.16	7.19	5.51	35	49	64	41	44	85	100	77	80
3SV-12						20.33	11.57	13.44	11.18	11.16	18.43	12.09	17.44	17.44	5.75	6.50	7.19	7.16	7.19	5.51	38	49	64	41	44	87	102	79	82
3SV-13	3					21.11	11.57	13.44	11.18	11.16	19.61	12.87	18.62	18.62	5.75	6.50	7.19	7.16	7.19	5.51	39	49	64	41	44	88	103	80	83
3SV-14						21.89	11.57	13.44	11.18	11.16	20.39	13.66	19.41	19.41	5.75	6.50	7.19	7.16	7.19	5.51	40	49	64	41	44	89	104	81	84
3SV-16						23.47	11.57	13.44	11.18	11.16	21.97	15.24	20.98	20.98	5.75	6.50	7.19	7.16	7.19	5.51	42	49	64	41	44	91	106	83	86
3SV-18						25.79	13.93	15.43	12.55	13.93	23.55	16.82	22.56	22.56	6.87	8.88	8.86	9.02	8.86	5.51	47	81	92	62	69	128	139	109	116
3SV-20						27.36	13.93	15.43	12.55	13.93	25.12	18.39	24.14	24.14	6.87	8.88	8.86	9.02	8.86	5.51	48	81	92	62	69	129	140	110	117
3SV-22		184TC	182TC	184TC		28.94	13.93	15.43	12.55	13.93	26.70	19.96	25.71	25.71	6.87	8.88	8.86	9.02	8.86	5.51	50	81	92	62	69	131	142	112	119
3SV-24						30.51	13.93	15.43	12.55	13.93	28.27	21.54	-	27.29	6.87	8.88	8.86	9.02	8.86	5.51	52	81	92	62	69	133	144	114	121
3SV-26						32.09	13.93	15.43	12.55	13.93	29.85	23.11	-	28.86	6.87	8.88	8.86	9.02	8.86	5.51	55	81	92	62	69	136	147	117	124
3SV-27						32.87	13.93	15.43	12.55	13.93	31.02	23.90	-	30.04	6.87	8.88	8.86	9.02	8.86	5.51	57	81	92	62	69	138	149	119	126
3SV-29	7.5					34.45	13.88	15.53	13.93	15.43	32.60	25.47	-	31.61	8.05	8.89	10.62	8.88	8.86	5.51	59	100	120	75	85	159	179	134	144
3SV-30	7.5	213TC		184TC		35.24	13.88	15.53	13.93	15.43	33.39	26.26	-	32.40	8.05	8.89	10.62	8.88	8.86	5.51	60	100	120	75	85	160	180	135	145

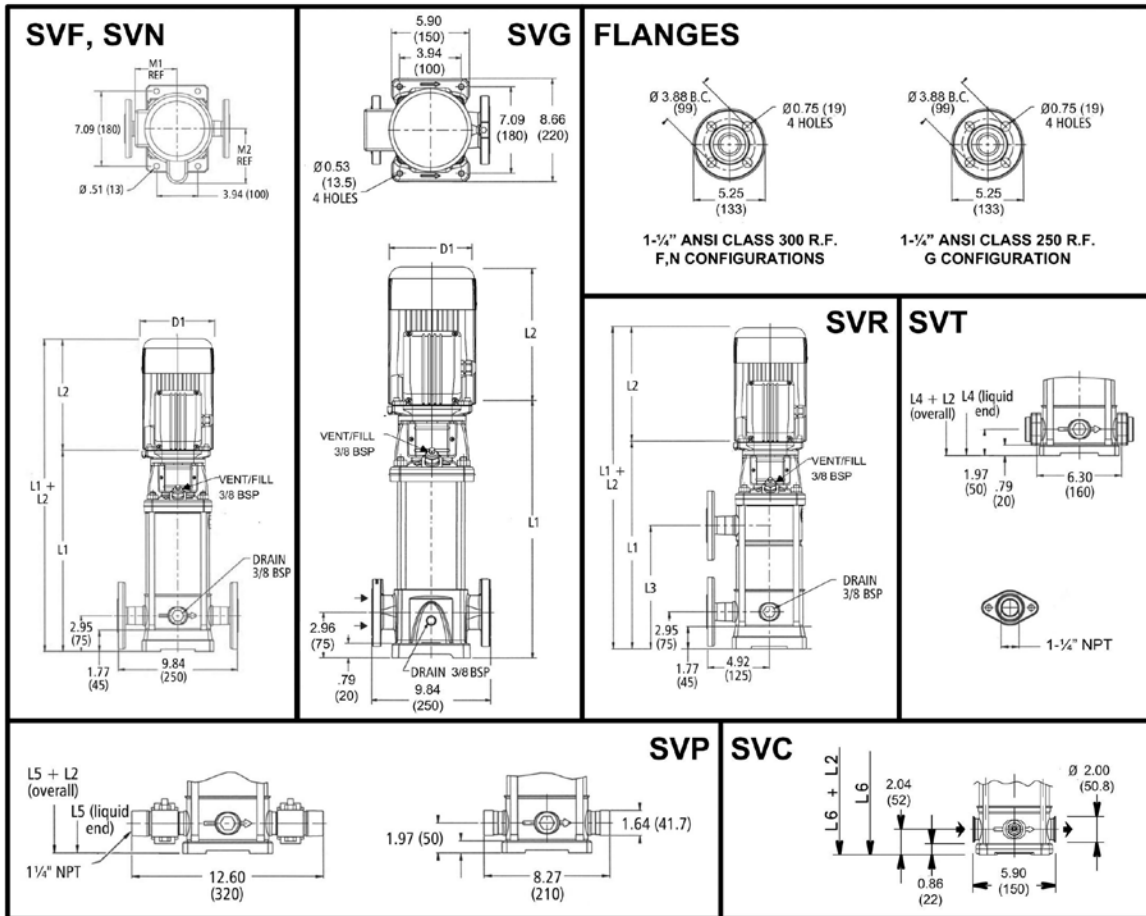
3SV Curve 3500 RPM



MINIMUM FLOW RATE: 3 GPM [.68 m³/hr]

Dimensions and Weights

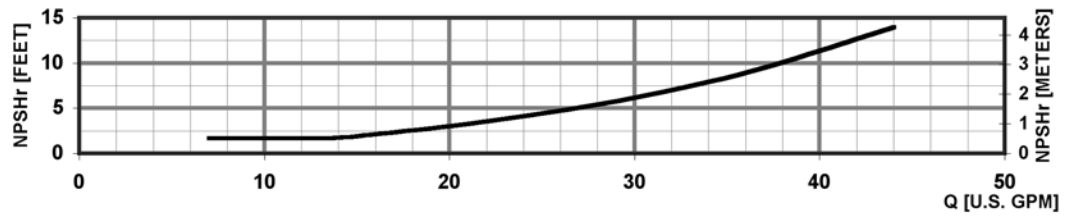
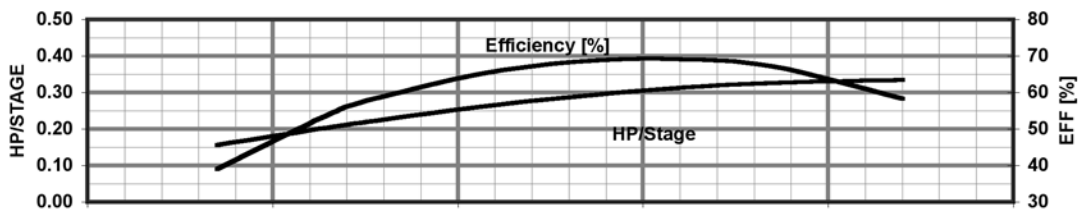
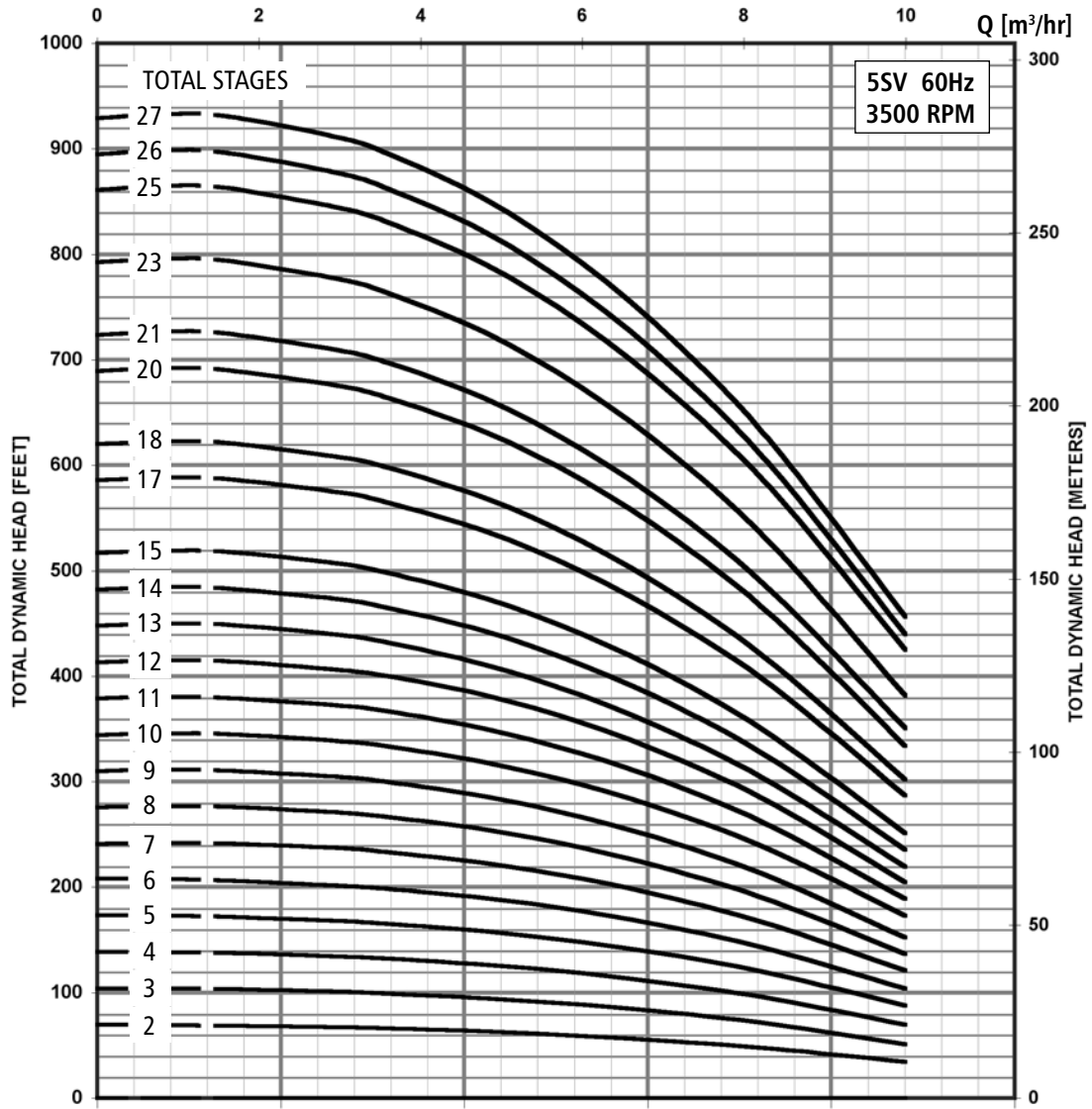
SSV Series 3500 RPM



All dimensions are in inches (mm).

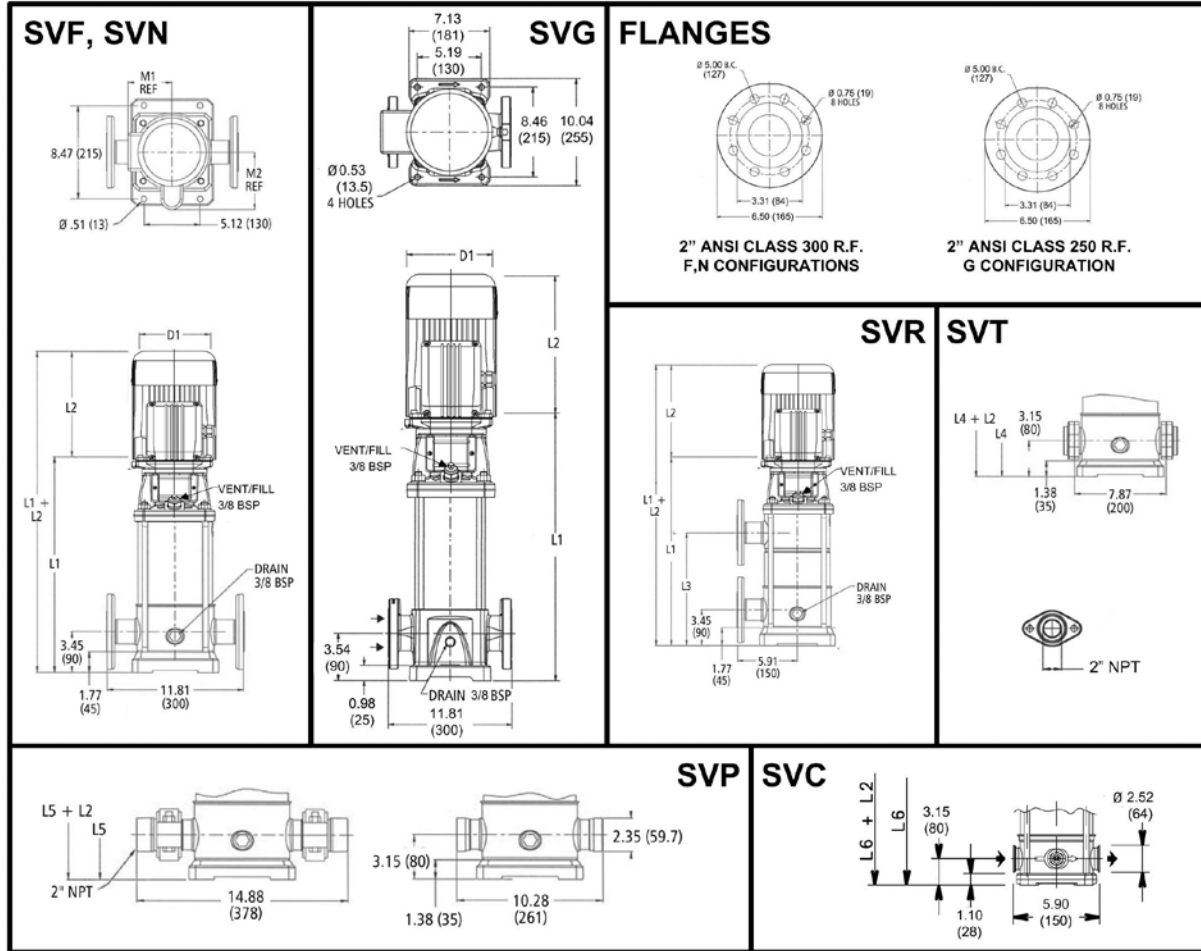
Pump Type	HP	Motor				Dimensions (in)													Weight (lbs.)										
		NEMA Frame				L2				D1 (max.)					D2				Motor				Pump/Motor						
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
5SV-02	0.75					12.85	10.79	9.91	9.16	9.29	-	-	9.57	9.57	5.19	6.20	6.19	6.19	6.19	4.13	27	21	21	19	19	48	48	46	46
5SV-03	1					13.84	10.66	11.19	9.16	9.29	-	-	10.55	10.55	5.19	6.19	6.19	6.19	6.19	4.13	28	27	29	21	21	55	57	49	49
5SV-04						14.82	10.67	11.19	10.66	9.91	-	-	11.54	11.54	5.74	6.20	7.19	6.19	6.19	4.13	30	32	40	23	23	62	70	53	53
5SV-05	1.5					15.8	10.67	11.19	10.66	9.91	-	-	12.91	12.91	5.74	6.20	7.19	6.19	6.19	4.13	32	32	40	23	23	64	72	55	55
5SV-06						16.78	11.18	12.06	11.16	10.79	-	-	13.9	13.9	5.74	7.19	7.19	6.20	6.19	4.72	33	43	51	32	33	76	84	65	66
5SV-07	2					17.77	11.18	12.06	11.16	10.79	15.87	9.53	14.88	14.88	5.74	7.19	7.19	6.20	6.19	4.72	35	43	51	32	33	78	86	67	68
5SV-08						18.75	11.57	13.44	11.18	11.16	16.85	10.51	15.87	15.87	5.75	6.50	7.19	7.16	7.19	5.51	35	49	64	41	44	84	99	76	79
5SV-09						19.73	11.57	13.44	11.18	11.16	18.23	11.5	17.24	17.24	5.75	6.50	7.19	7.16	7.19	5.51	37	49	64	41	44	86	101	78	81
5SV-10	3					20.71	11.57	13.44	11.18	11.16	19.21	12.48	18.23	18.23	5.75	6.50	7.19	7.16	7.19	5.51	37	49	64	41	44	86	101	78	81
5SV-11						22.45	13.93	15.43	12.55	13.93	20.2	13.46	19.21	19.21	6.87	8.88	8.86	9.02	8.86	5.51	41	81	92	62	69	122	133	103	110
5SV-12						23.43	13.93	15.43	12.55	13.93	21.18	14.45	20.2	20.2	6.87	8.88	8.86	9.02	8.86	5.51	42	81	92	62	69	123	134	104	111
5SV-13						24.42	13.93	15.43	12.55	13.93	22.17	15.43	21.18	21.18	6.87	8.88	8.86	9.02	8.86	5.51	44	81	92	62	69	125	136	106	113
5SV-14	5	184TC	182TC			25.4	13.93	15.43	12.55	13.93	23.15	16.42	22.17	22.17	6.87	8.88	8.86	9.02	8.86	5.51	45	81	92	62	69	126	137	107	114
5SV-15						26.38	13.93	15.43	12.55	13.93	24.13	17.4	23.15	23.15	6.87	8.88	8.86	9.02	8.86	5.51	46	81	92	62	69	127	138	108	115
5SV-16						27.37	13.93	15.43	12.55	13.93	25.12	18.39	24.13	24.13	6.87	8.88	8.86	9.02	8.86	5.51	47	81	92	62	69	128	139	109	116
5SV-17						28.55	13.93	15.43	12.55	13.93	26.1	19.37	25.11	25.11	6.87	8.88	8.86	9.02	8.86	5.51	49	81	92	62	69	130	141	111	118
5SV-18						29.28	13.88	15.53	13.93	15.43	27.48	20.35	26.5	26.5	8.05	8.89	10.62	8.88	8.86	5.51	50	100	120	75	85	150	170	125	135
5SV-20						31.64	13.88	15.53	13.93	15.43	29.44	22.31	28.46	28.46	8.05	8.89	10.62	8.88	8.86	5.51	53	100	120	75	85	153	173	128	138
5SV-21						32.23	13.88	15.53	13.93	15.43	30.43	23.31	29.45	29.45	8.05	8.89	10.62	8.88	8.86	5.51	54	100	120	75	85	154	174	129	139
5SV-23	7.5	213TC	184TC			34.2	13.88	15.53	13.93	15.43	32.4	25.28	-	31.42	8.05	8.89	10.62	8.88	8.86	5.51	56	100	120	75	85	156	176	131	141
5SV-25						36.17	13.88	15.53	13.93	15.43	34.37	27.24	-	33.39	8.05	8.89	10.62	8.88	8.86	5.51	58	100	120	75	85	158	178	133	143
5SV-26						37.23	13.88	15.53	13.93	15.43	35.35	28.22	-	34.37	8.05	8.89	10.62	8.88	8.86	5.51	59	100	120	75	85	159	179	134	144
5SV-27	10	215TC	213TC	215TC		38.22	16.63	16.68	15.55	15.51	36.33	29.2	-	35.35	8.77	10.62	10.18	10.18	10.28	4.13	60	132	145	107	122	192	205	167	182

5SV Curve 3500 RPM



MINIMUM FLOW RATE: 7 GPM [1.6 m³/hr]

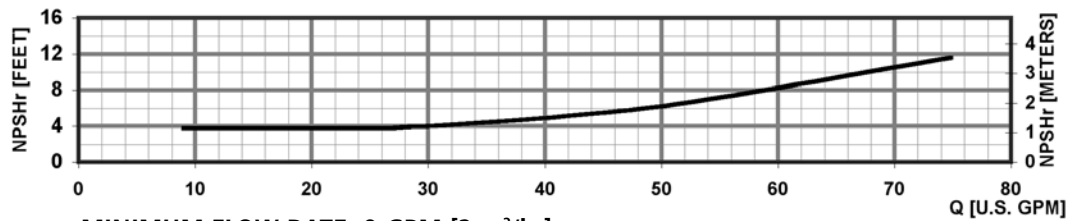
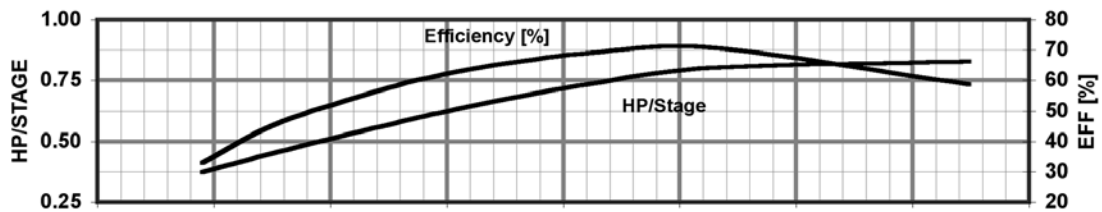
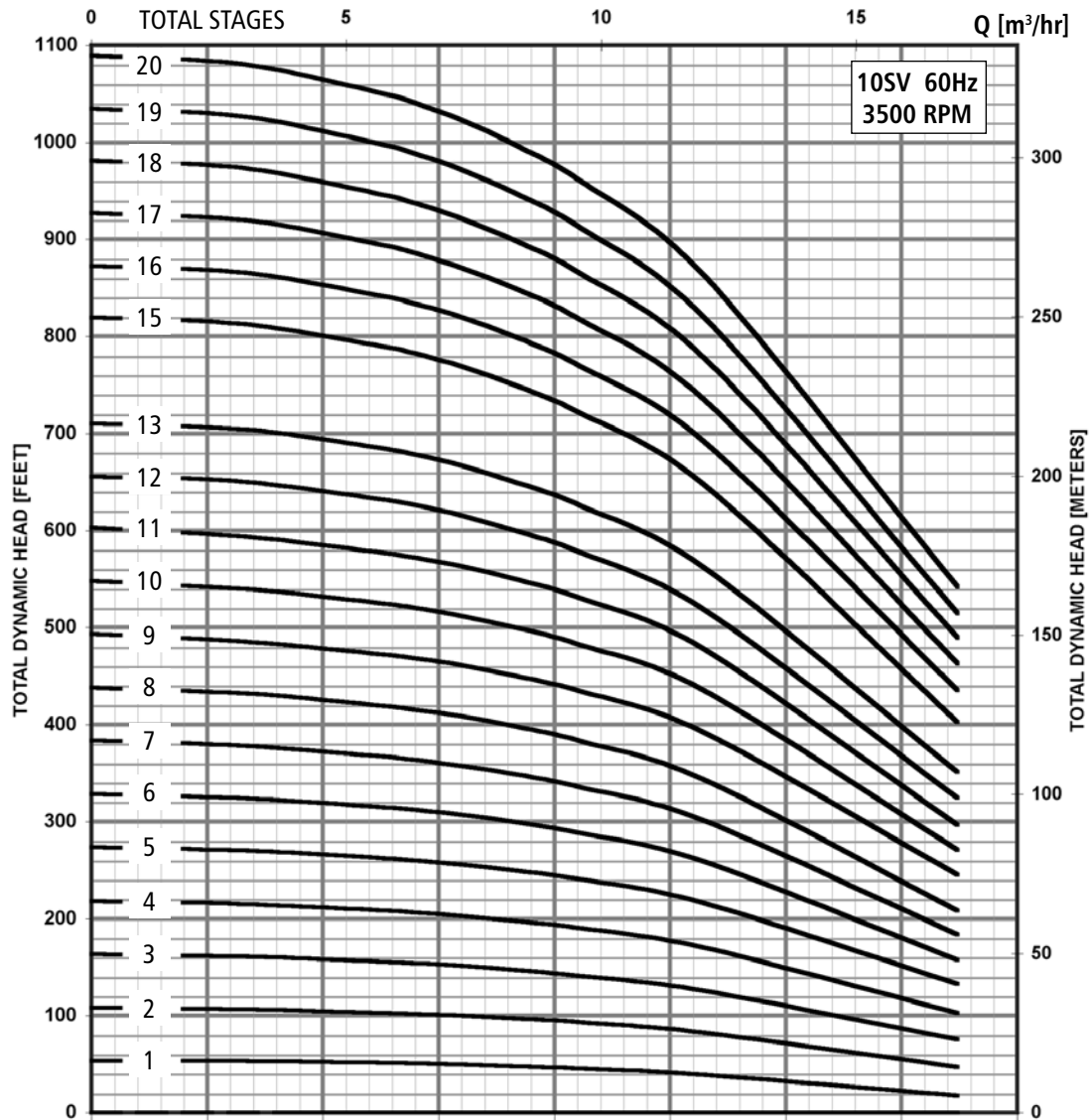
Dimensions and Weights
10SV Series 3500 RPM



All dimensions are in inches (mm).

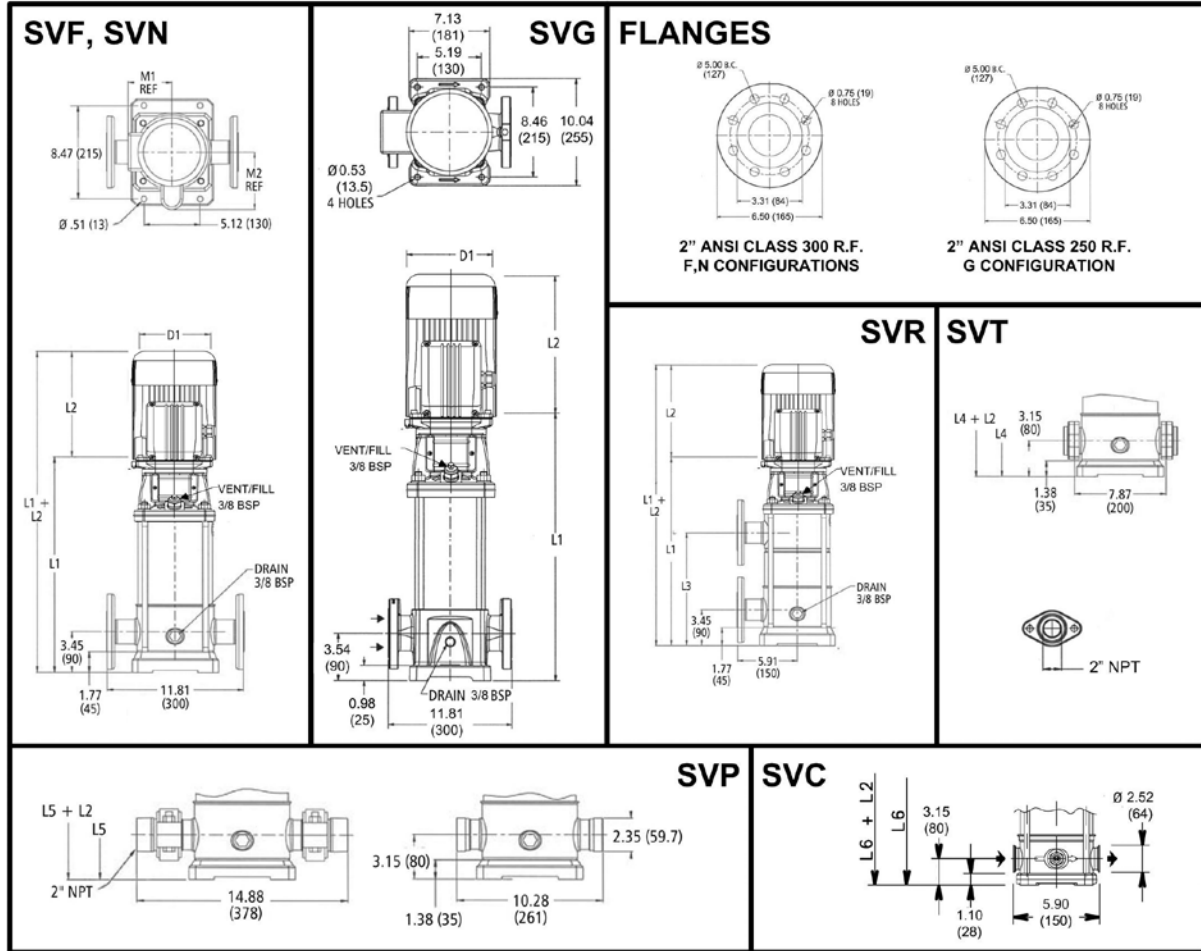
Pump Type	HP	Motor				Dimensions (in)											Weight (lbs.)												
		NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
10SV-01	0.75	56C				16.56	10.79	9.91	9.16	9.29	-	-	14.06	14.45	5.19	6.19	6.19	6.19	6.19	4.13	39	27	29	21	21	66	68	60	60
10SV-02	2	56C				16.56	11.18	12.06	11.16	10.79	-	-	14.06	14.45	5.74	7.19	7.19	6.20	6.19	4.72	41	43	51	32	33	84	92	73	74
10SV-03	3	56C				17.81	11.57	13.44	11.18	11.16	-	-	15.31	15.71	5.75	6.5	7.19	7.16	7.19	5.51	43	49	64	41	44	92	107	84	87
10SV-04	5	184TC		182TC		19.57	13.93	15.43	12.55	13.93	-	-	16.97	17.36	6.87	8.88	8.86	9.02	8.86	5.51	45	81	92	62	69	126	137	107	114
10SV-05	5	184TC		184TC		20.83	13.93	15.43	12.55	13.93	18.23	10.20	18.23	18.62	6.87	8.88	8.86	9.02	8.86	5.51	47	81	92	62	69	128	139	109	116
10SV-06	5	184TC		184TC		22.09	13.93	15.43	12.55	13.93	19.49	11.46	19.49	19.88	6.87	8.88	8.86	9.02	8.86	5.51	50	81	92	62	69	131	142	112	119
10SV-07	5	184TC		184TC		23.94	13.88	15.53	13.93	15.43	21.14	12.72	21.14	21.54	8.05	8.89	10.62	8.88	8.86	5.51	65	100	120	75	85	165	185	140	150
10SV-08	7.5	213TC	213TC	184TC		25.2	13.88	15.53	13.93	15.43	22.40	13.98	22.40	22.80	8.05	8.89	10.62	8.88	8.86	4.72	67	100	120	75	85	167	187	142	152
10SV-09	7.5	213TC	213TC	184TC		26.46	13.88	15.53	13.93	15.43	23.66	15.24	23.66	24.06	8.05	8.89	10.62	8.88	8.86	4.72	69	100	120	75	85	169	189	144	154
10SV-10	10	215TC		215TC		27.72	16.63	16.68	15.55	15.51	24.92	16.50	24.92	25.31	8.77	10.62	10.18	10.18	10.28	4.13	71	132	145	107	122	203	216	178	193
10SV-11	10	215TC	215TC	213TC	215TC	28.98	16.63	16.68	15.55	15.51	26.18	17.76	26.18	26.57	8.77	10.62	10.18	10.18	10.28	4.13	74	132	145	107	122	206	219	181	196
10SV-12	10	215TC		215TC		29.45	16.63	16.68	15.55	15.51	27.44	19.02	27.44	27.83	8.77	10.62	10.18	10.18	10.28	4.13	83	132	145	107	122	215	228	190	205
10SV-13	15	-	-	215TC		32.14	-	-	15.55	16.57	31.34	20.28	31.34	31.73	3.22	-	-	10.18	10.28	4.72	87	-	-	125	195	-	-	212	282
10SV-14	15	-	-	215TC		33.48	-	-	15.55	16.57	32.60	21.54	32.60	32.99	4.22	-	-	10.18	10.28	4.72	90	-	-	125	195	-	-	215	285
10SV-15	15	-	-	215TC		34.66	-	-	15.55	16.57	33.86	22.80	-	34.25	5.22	-	-	10.18	10.28	4.72	92	-	-	125	195	-	-	217	287
10SV-16	15	-	-	215TC	254TC	35.92	-	-	15.55	16.57	35.12	24.06	-	35.51	6.22	-	-	10.18	10.28	4.72	95	-	-	125	195	-	-	220	290
10SV-17	15	-	-	215TC		37.18	-	-	15.55	16.57	36.38	25.31	-	36.77	7.22	-	-	10.18	10.28	4.72	96	-	-	125	195	-	-	221	291
10SV-18	15	-	-	215TC		38.44	-	-	15.55	16.57	37.64	26.57	-	38.03	8.22	-	-	10.18	10.28	4.72	98	-	-	125	195	-	-	223	293
10SV-19	15	-	-	215TC		39.78	-	-	15.55	16.57	38.90	27.83	-	39.29	9.22	-	-	10.18	10.28	4.72	101	-	-	125	195	-	-	226	296
10SV-20	20	-	-	254TC	256TC	40.36	-	-	16.66	20.08	40.16	29.09	-	40.55	9.5	-	-	10.18	13.13	5.51	105	-	-	144	285	-	-	249	390

10SV Curve 3500 RPM



MINIMUM FLOW RATE: 9 GPM [2 m³/hr]

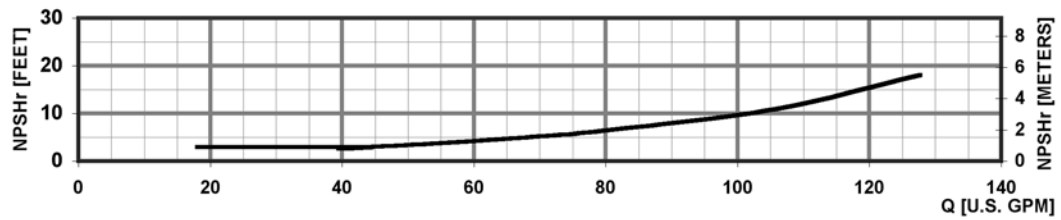
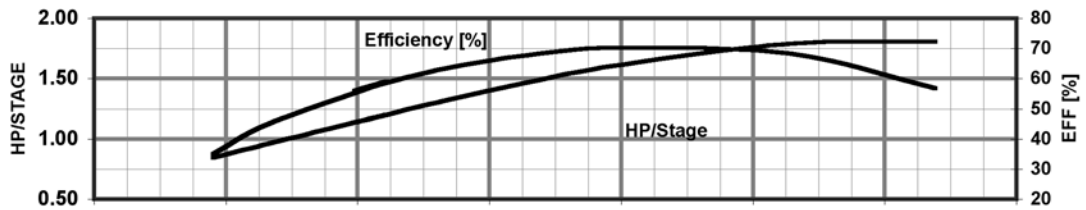
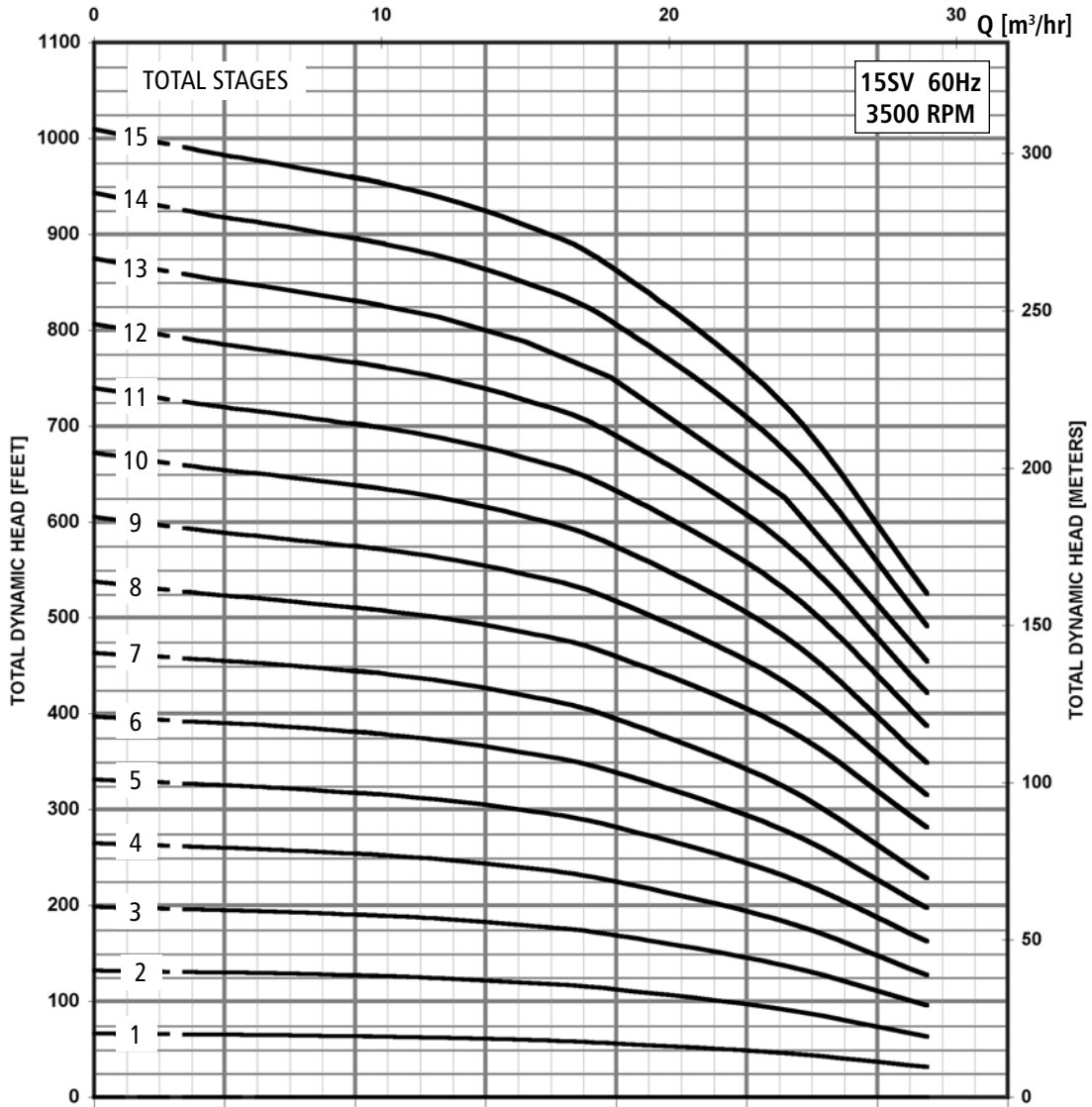
Dimensions and Weights
15SV Series 3500 RPM



All dimensions are in inches (mm).

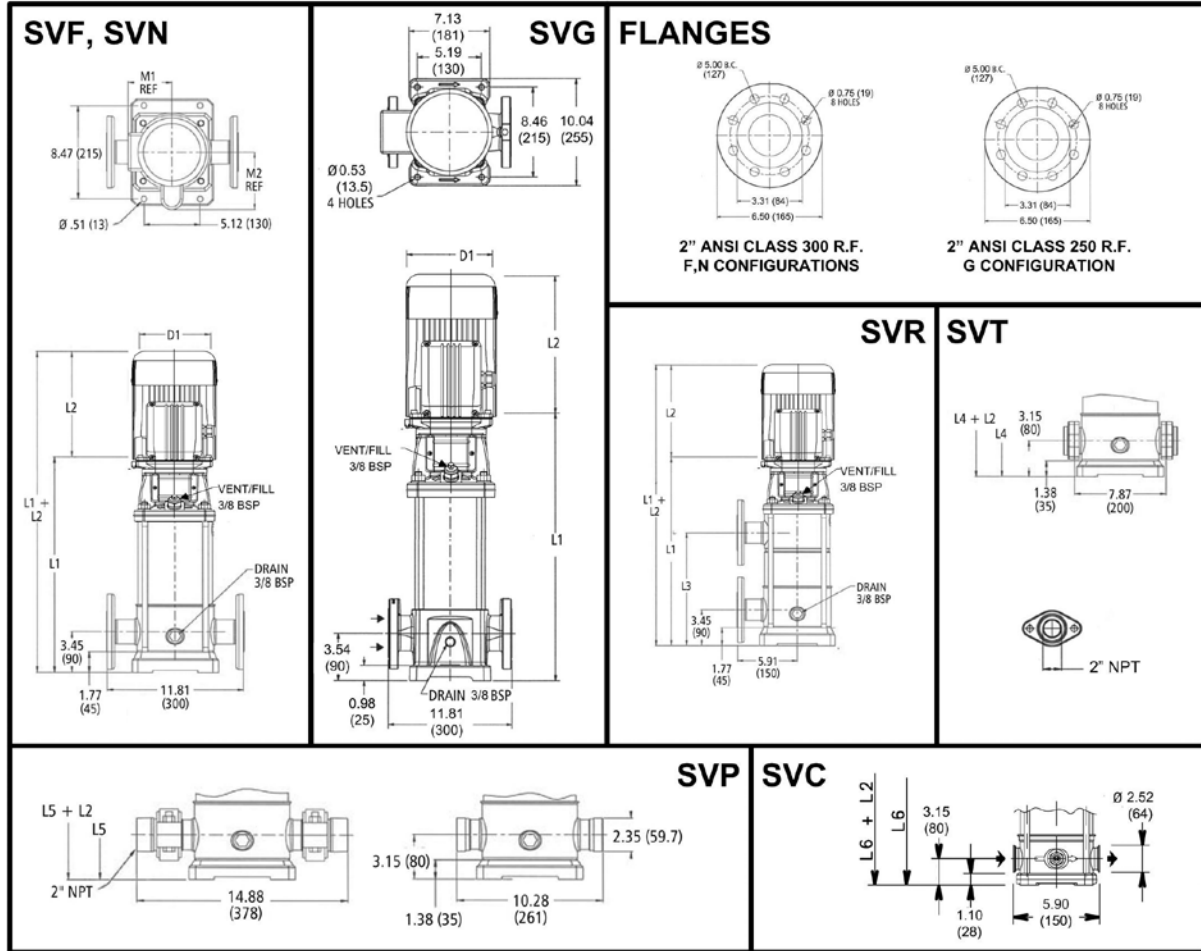
Pump Type	HP	Motor				Dimensions (in)											Weight (lbs.)												
		NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
15SV-01	2	56C				18.21	11.18	12.06	11.16	10.79	-	-	15.71	15.71	5.74	7.19	7.19	6.20	6.19	4.72	41	43	51	32	33	84	92	73	74
15SV-02	5	184TC	182TC	184TC	18.70	13.93	15.43	12.55	13.93	-	-	16.10	16.10	6.87	8.88	8.86	9.02	8.86	5.51	45	81	92	62	69	126	137	107	114	
15SV-03	7.5	213TC		184TC	20.99	13.88	15.53	13.93	15.43	-	-	18.39	18.39	8.05	8.89	10.62	8.88	8.86	5.51	54	100	120	75	85	154	174	129	139	
15SV-04	7.5					22.88	13.88	15.53	13.93	15.43	20.28	11.85	20.28	20.28	8.05	8.89	10.62	8.88	8.86	5.51	57	100	120	75	85	157	177	132	142
15SV-05	10	215TC	213TC	215TC	24.77	16.63	16.68	15.55	15.51	22.17	13.74	22.17	22.17	8.77	10.62	10.18	10.18	10.28	4.13	65	132	145	107	122	197	210	172	187	
15SV-06	15	-	-	-	27.49	-	-	15.55	16.57	26.69	15.63	26.69	26.69	9.22	-	-	10.18	10.28	4.72	82	-	-	125	195	-	-	207	277	
15SV-07	15	-	-	215TC	29.38	-	-	15.55	16.57	28.58	17.52	28.58	28.58	9.22	-	-	10.18	10.28	4.72	86	-	-	125	195	-	-	211	281	
15SV-08	15	-	-	-	31.27	-	-	15.55	16.57	30.47	19.41	30.47	30.47	9.22	-	-	10.18	10.28	4.72	89	-	-	125	195	-	-	214	284	
15SV-09	20	-	-	-	33.16	-	-	16.66	20.08	32.36	21.30	32.36	32.36	9.50	-	-	10.18	13.13	5.51	92	-	-	144	285	-	-	236	377	
15SV-10	20	-	-	254TC	35.73	-	-	16.66	20.08	35.43	23.19	35.43	35.43	9.50	-	-	10.18	13.13	5.51	99	-	-	144	285	-	-	243	384	
15SV-11	20	-	-	-	37.62	-	-	16.66	20.08	37.32	25.08	-	37.32	9.50	-	-	10.18	13.13	5.51	102	-	-	144	285	-	-	246	387	
15SV-12	25	-	-	-	39.51	-	-	21.44	19.54	39.21	26.97	-	39.21	12.94	-	-	11.63	12.94	5.51	105	-	-	185	283	-	-	290	388	
15SV-13	25	-	-	254TC	41.40	-	-	21.44	19.54	41.10	28.86	-	41.10	12.94	-	-	11.63	12.94	5.51	108	-	-	185	283	-	-	293	391	
15SV-14	25	-	-	284TC	43.29	-	-	21.44	19.54	0.00	0.00	-	42.99	12.94	-	-	11.63	12.94	5.51	112	-	-	185	283	-	-	297	395	
15SV-15	30	-	-	284TC	45.18	-	-	21.75	19.54	44.88	32.64	-	44.88	12.21	-	-	13.25	12.94	5.51	115	-	-	296	382	-	-	411	497	

15SV Curve 3500 RPM



MINIMUM FLOW RATE: 18 GPM [4.1 m³/hr]

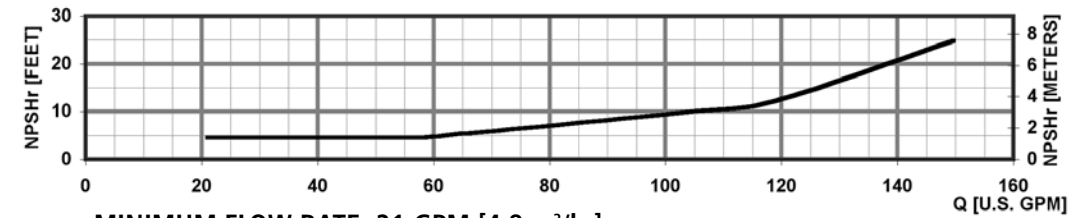
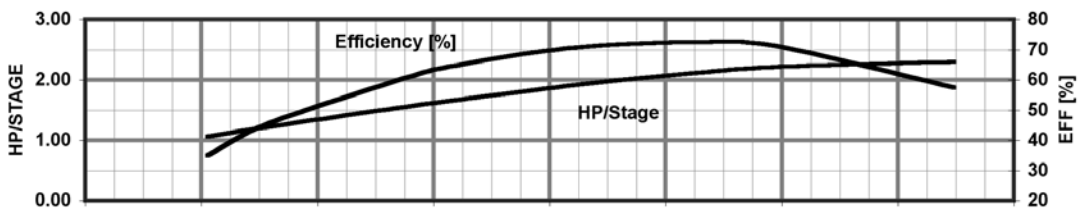
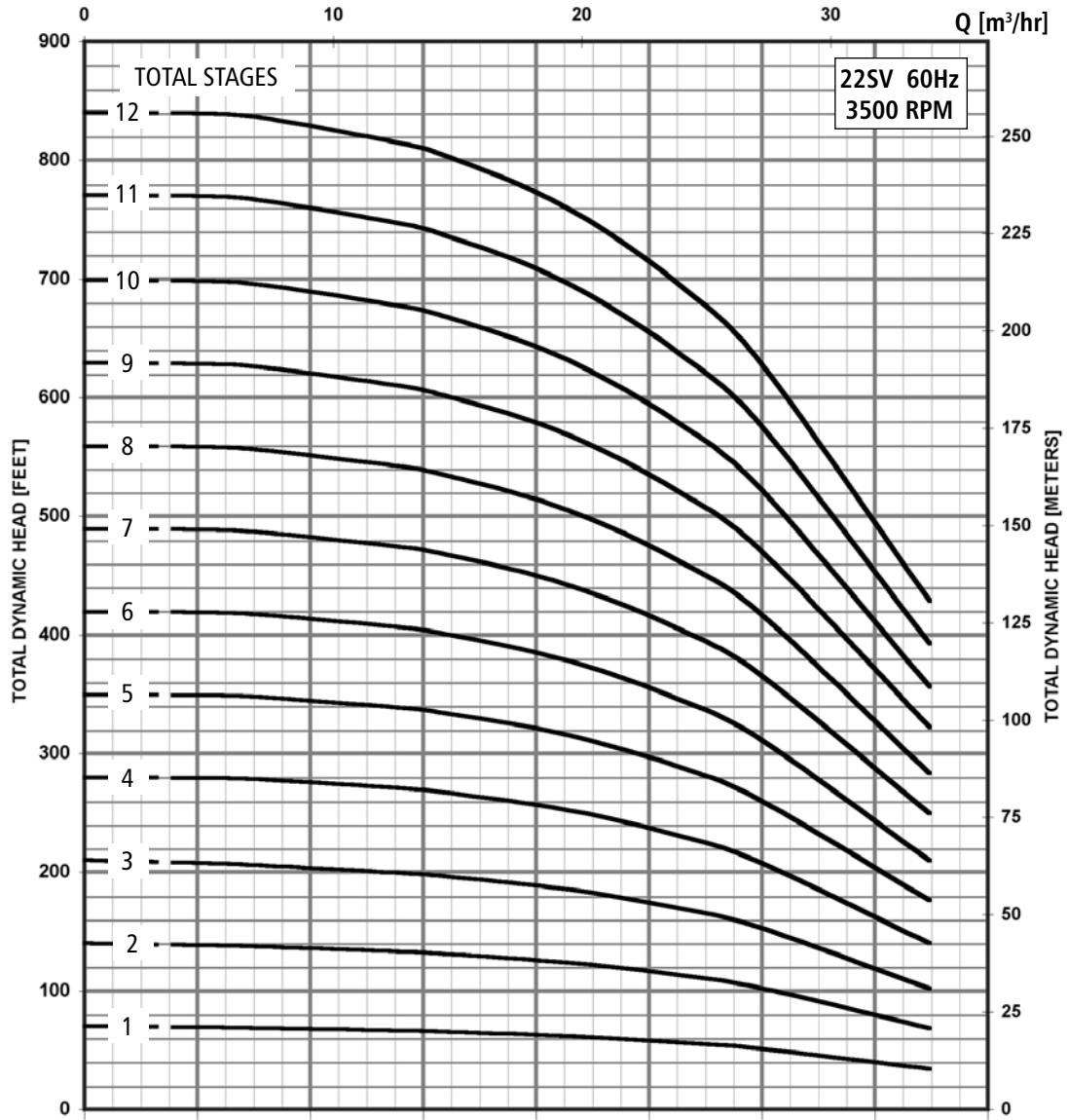
Dimensions and Weights
22SV Series 3500 RPM



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
22SV-01	3	56C				18.21	11.57	13.44	11.18	11.16	-	-	15.71	15.71	5.75	6.50	7.19	7.16	7.19	5.51	37	49	64	41	44	86	101	78	81
22SV-02	5	184TC	182TC	184TC	18.7	13.93	15.43	12.55	13.93	-	-	16.10	16.10	6.87	8.88	8.86	9.02	8.86	5.51	41	81	92	62	69	122	133	103	110	
22SV-03	7.5	213TC 184TC				20.99	13.88	15.53	13.93	15.43	-	-	18.39	18.39	8.05	8.89	10.62	8.88	8.86	5.51	47	100	120	75	85	147	167	122	132
22SV-04	10	215TC	213TC	215TC	22.98	16.63	16.68	15.55	15.51	20.28	11.85	20.28	20.28	8.77	10.62	10.18	10.18	10.28	4.13	50	132	145	107	122	182	195	157	172	
22SV-05	15	-	-	-	25.6	-	-	15.55	16.57	24.80	13.74	24.80	24.80	9.22	-	-	10.18	10.28	4.72	64	-	-	125	195	-	-	189	259	
22SV-06	15	-	-	215TC 254TC	27.49	-	-	15.55	16.57	26.69	15.63	26.69	26.69	9.22	-	-	10.18	10.28	4.72	67	-	-	125	195	-	-	192	262	
22SV-07	15	-	-	-	29.38	-	-	15.55	16.57	28.58	17.52	28.58	28.58	9.22	-	-	10.18	10.28	4.72	70	-	-	125	195	-	-	195	265	
22SV-08	20	-	-	254TC 256TC	32.45	-	-	16.66	20.08	31.65	19.41	31.65	31.65	9.50	-	-	10.18	13.13	5.51	80	-	-	144	285	-	-	224	365	
22SV-09	20	-	-	-	33.79	-	-	16.66	20.08	33.54	21.30	33.54	33.54	9.50	-	-	10.18	13.13	5.51	83	-	-	144	285	-	-	227	368	
22SV-10	25	-	-	-	35.68	-	-	21.44	19.54	35.43	23.19	35.43	35.43	12.94	-	-	11.63	12.94	5.51	86	-	-	185	283	-	-	271	369	
22SV-11	25	-	-	254TC 284TC	37.57	-	-	21.44	19.54	37.32	25.08	37.32	37.32	13.94	-	-	11.63	12.94	5.51	89	-	-	185	283	-	-	274	372	
22SV-12	30	-	-	284TC 286TC	39.46	-	-	21.75	19.54	39.21	26.97	-	39.21	12.21	-	-	13.25	12.94	5.51	92	-	-	296	382	-	-	388	474	

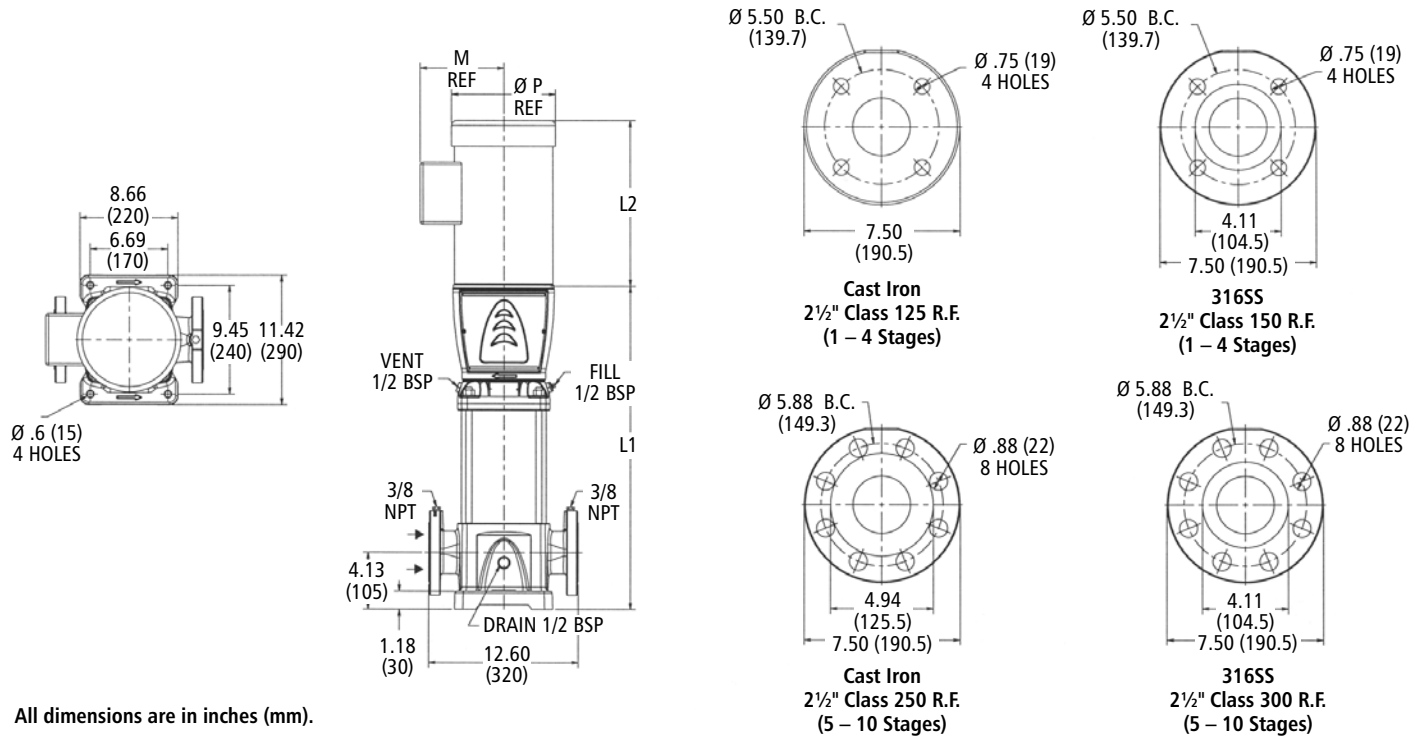
22SV Curve 3500 RPM



MINIMUM FLOW RATE: 21 GPM [4.8 m³/hr]

Dimensions and Weights

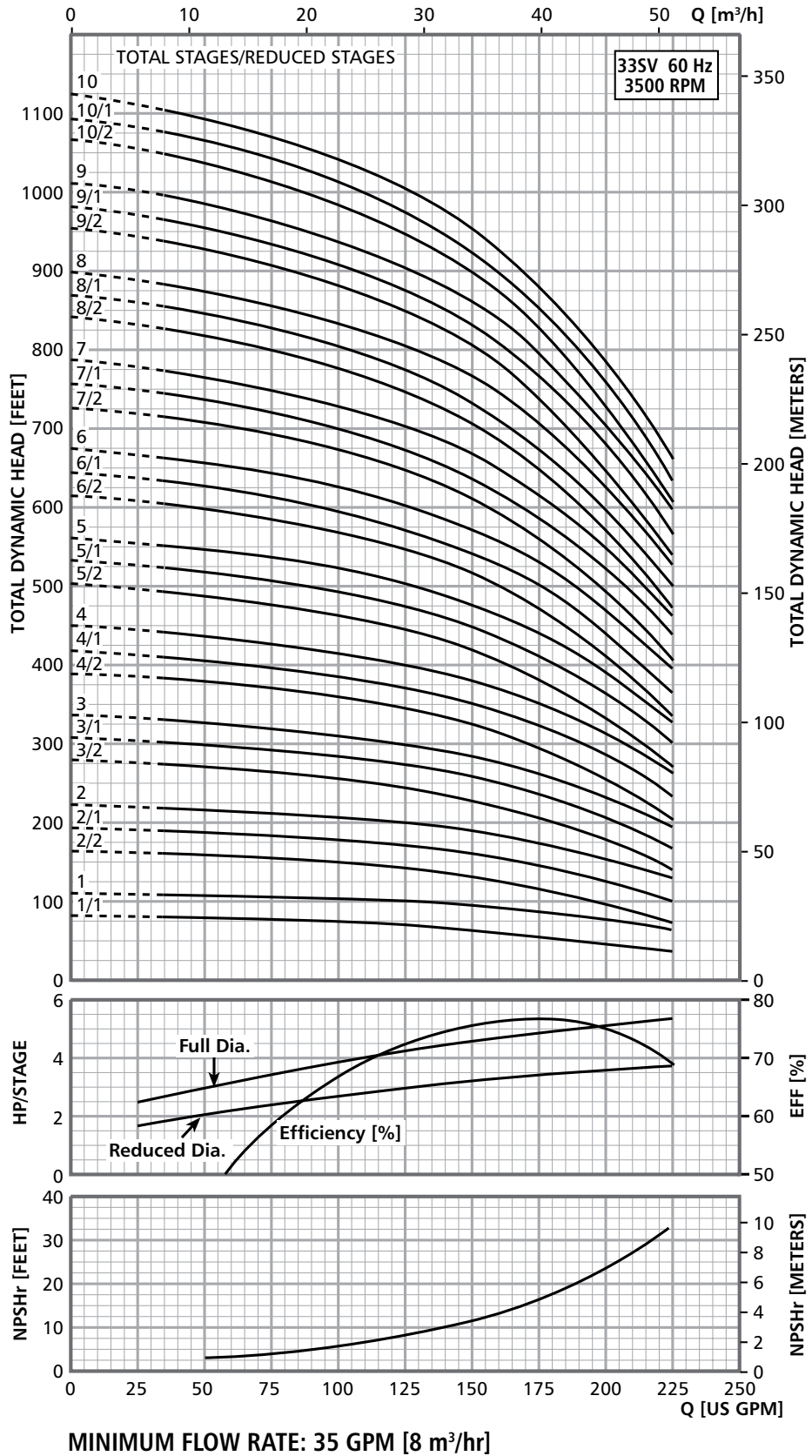
33SV Series 3500 RPM



All dimensions are in inches (mm).

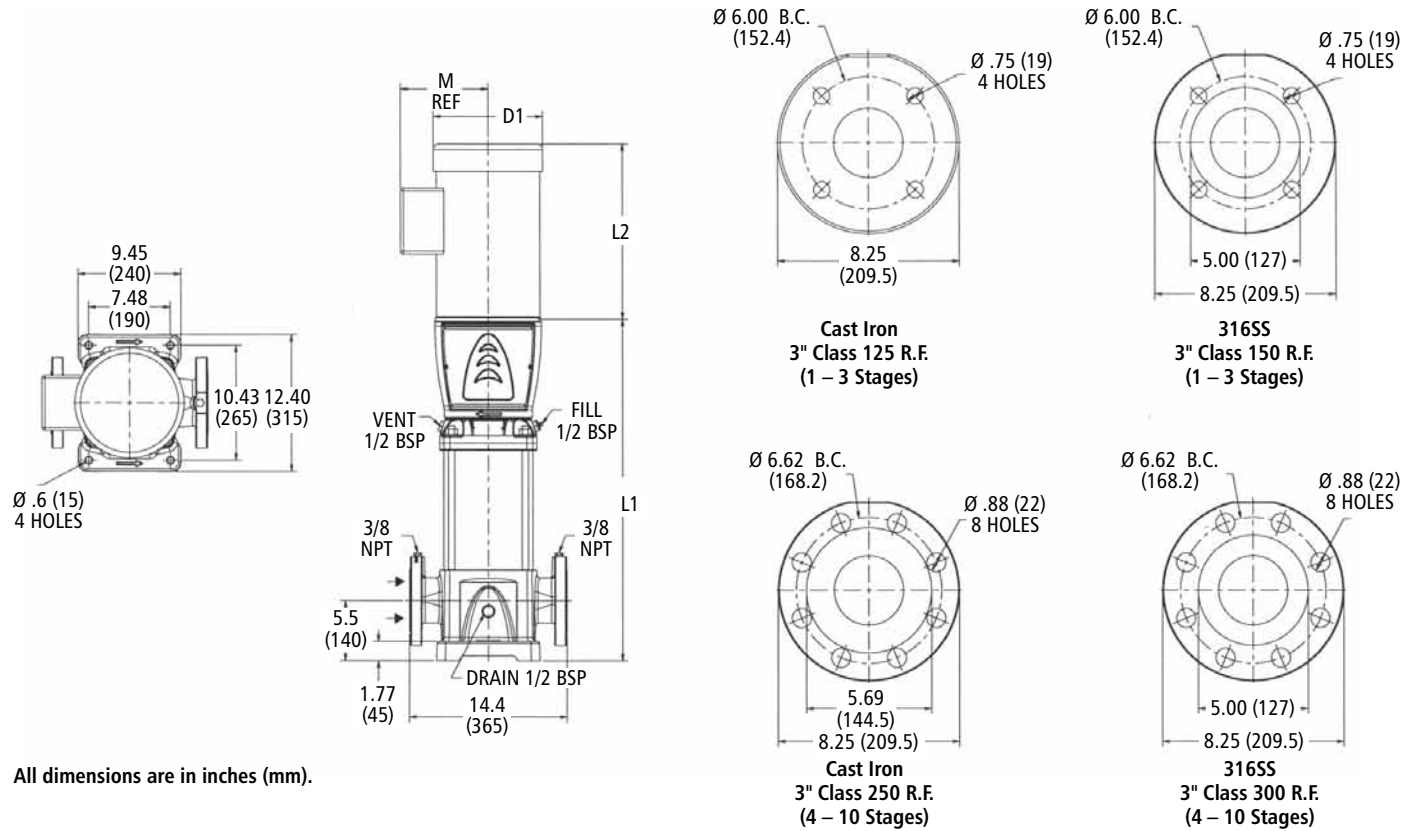
Pump Type Stages	Motor				Dimensions (in)											Weight (lbs.)									
	HP	NEMA Frame				L1	L2				M (Ref.)	D1 (max.)				D2	Pump Only	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø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

33SV Curve 3500 RPM



Dimensions and Weights

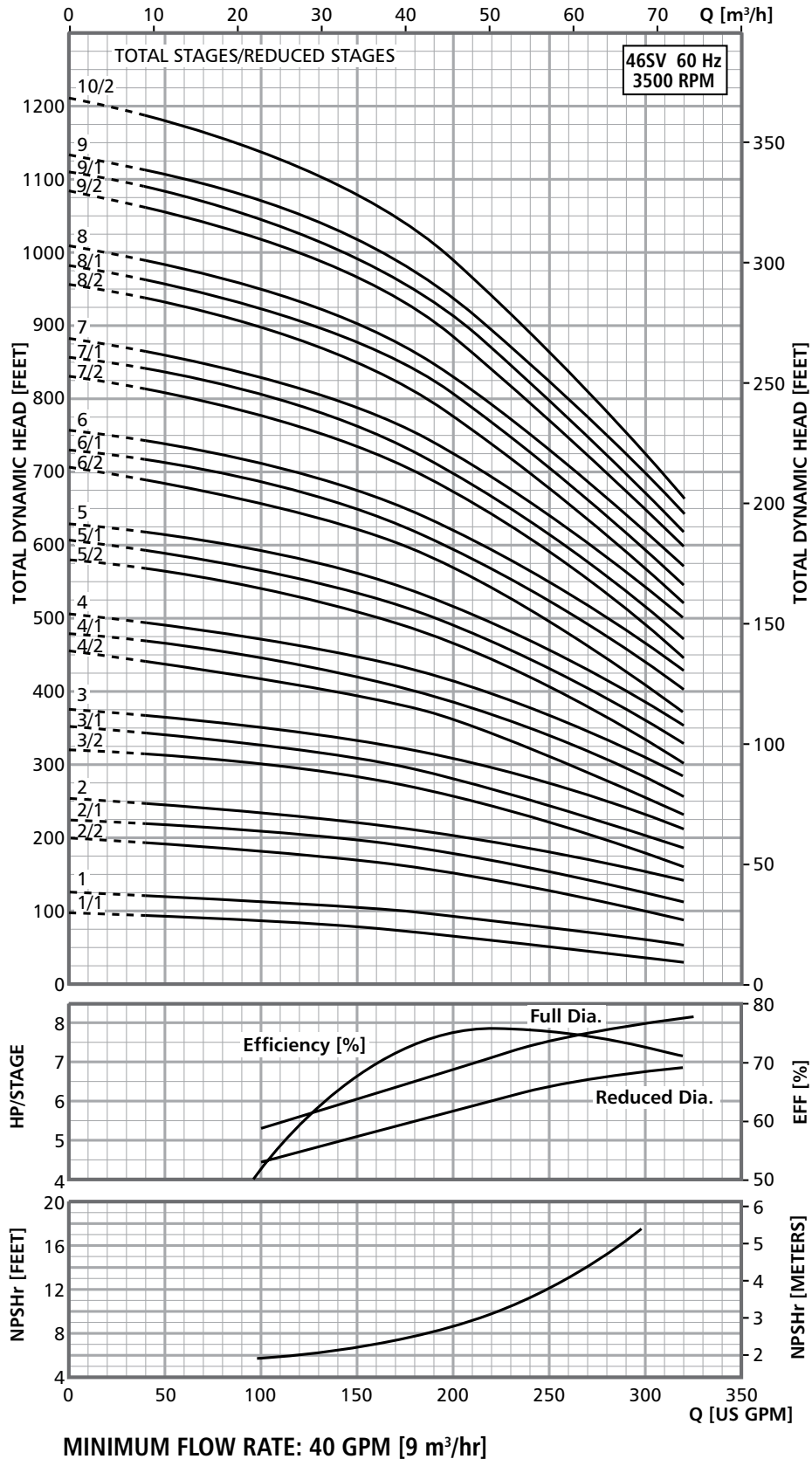
46SV Series 3500 RPM



All dimensions are in inches (mm).

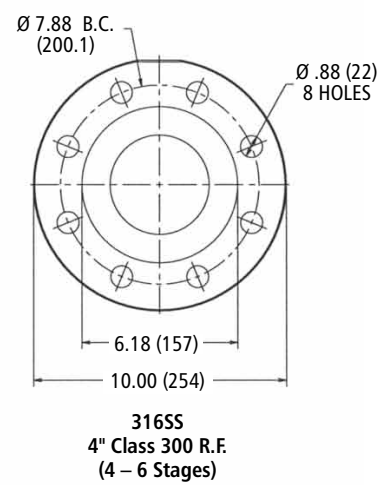
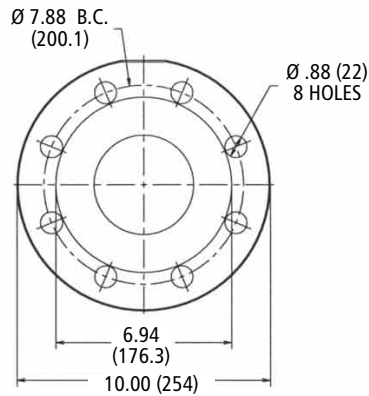
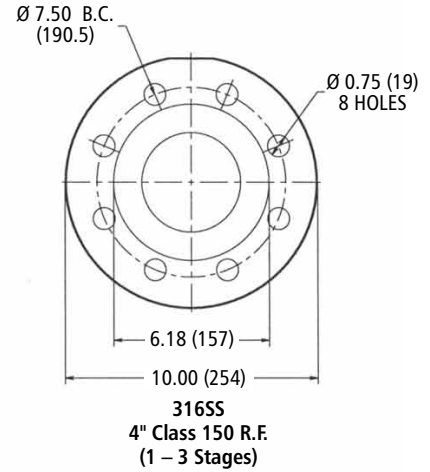
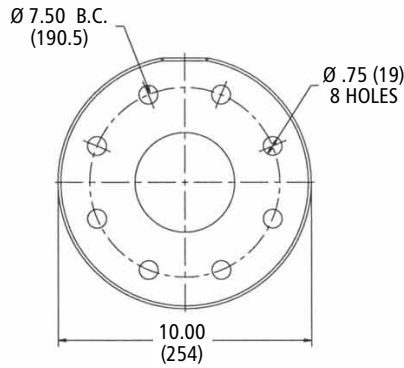
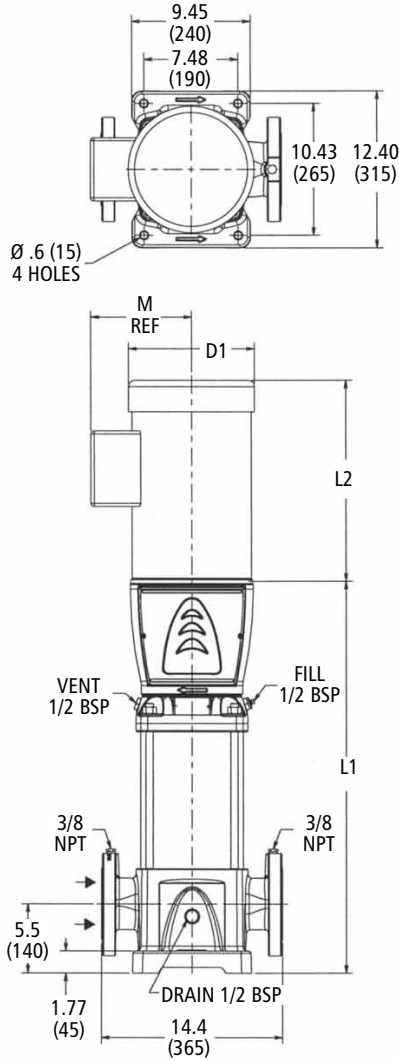
Pump Type Stages	Motor				Dimensions (in)										Weight (lbs.)										
	HP	NEMA Frame				L1	L2				M (Ref.)	D1 (max.)				D2	Pump Only	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø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

46SV Curve 3500 RPM



Dimensions and Weights

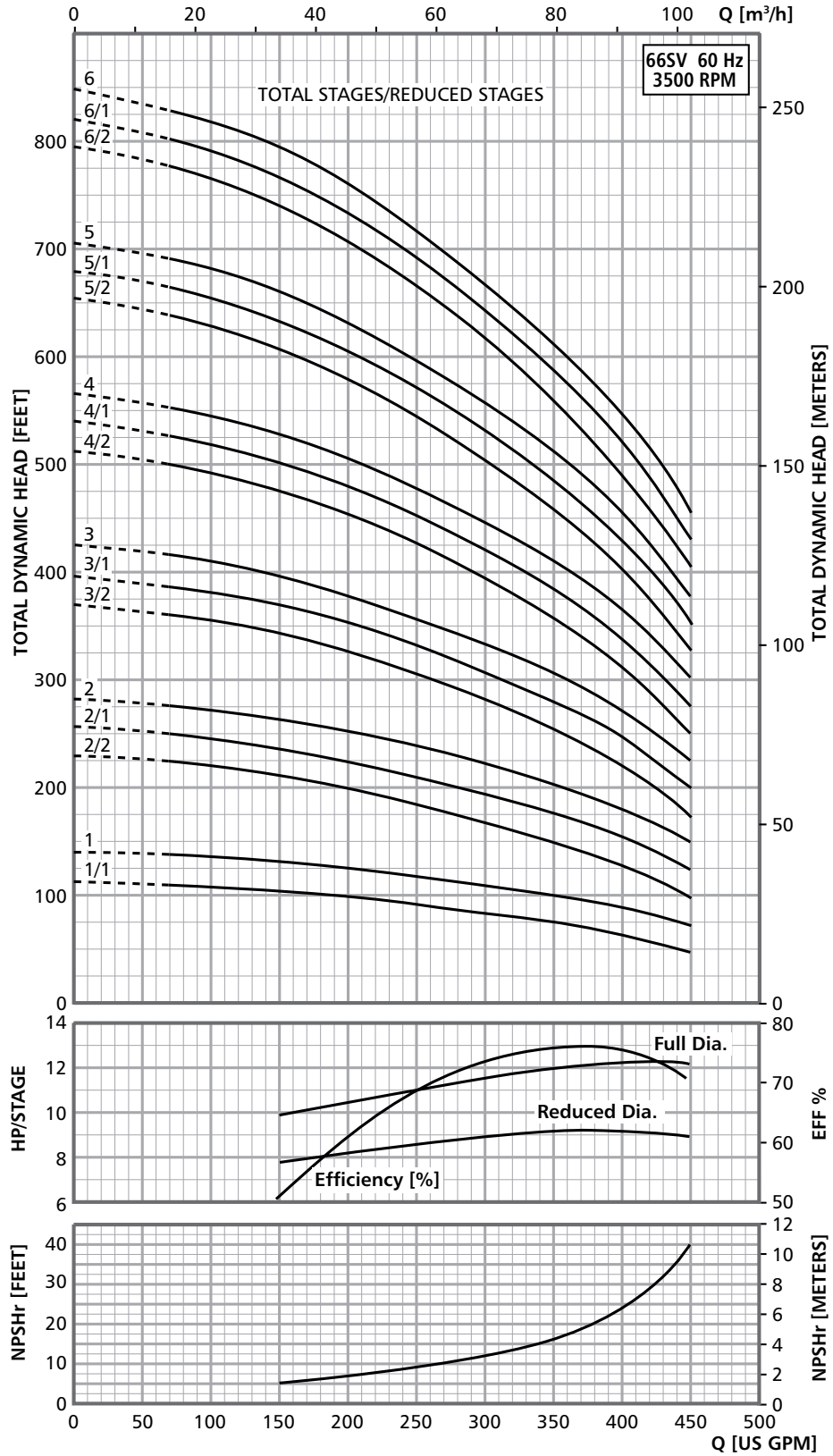
66SV Series 3500 RPM



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	15	-	-	215TC	254TC	23.19	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	185	-	-	128	250	-	-	313	435
66SV-2/2	20	-	-	254TC	256TC	26.75	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	220	280	-	-	416	476
66SV-2/1		-	-			26.75	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	220	280	-	-	416	476
66SV-2	25	-	-	256TC	284TC	28.31	-	-	18.00	23.38	13.12	-	-	11.63	15.31	5.51	210	-	-	240	420	-	-	450	630
66SV-3/2	30	-	-	284TC	284TC	31.81	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	325	445	-	-	548	668
66SV-3/1		-	-			31.81	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	325	445	-	-	548	668
66SV-3		-	-			31.81	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	328	448	-	-	551	671
66SV-4/2	40	-	-	-	-	35.38	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	234	-	-	328	448	-	-	562	682
66SV-4/1	50	-	-	326TSC	326TSC	34.88	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	242	-	-	382	592	-	-	624	834
66SV-4		-	-			34.88	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	242	-	-	382	592	-	-	624	834
66SV-5/2		-	-			38.44	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	252	-	-	382	592	-	-	634	844
66SV-5/1	60	-	-	326TSC	364TSC	38.44	-	-	22.50	27.22	14.96	-	-	13.25	19.00	5.51	252	-	-	474	736	-	-	726	988
66SV-5		-	-			38.44	-	-	22.50	27.22	14.96	-	-	13.25	19.00	5.51	252	-	-	474	736	-	-	726	988
66SV-6/2	75	-	-	365TSC	365TSC	41.94	-	-	24.12	27.22	14.96	-	-	15.12	19.00	5.51	266	-	-	500	762	-	-	766	1028
66SV-6/1		-	-			41.94	-	-	24.12	27.22	14.96	-	-	15.12	19.00	5.51	266	-	-	500	762	-	-	766	1028
66SV-6		-	-			41.94	-	-	24.12	27.22	14.96	-	-	15.12	19.00	5.51	266	-	-	500	762	-	-	766	1028

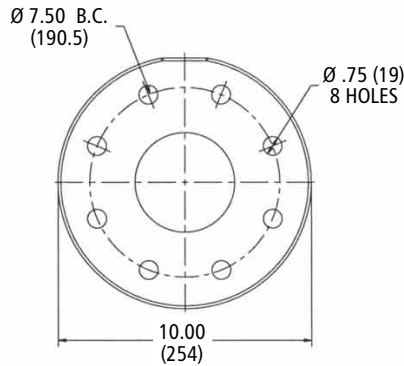
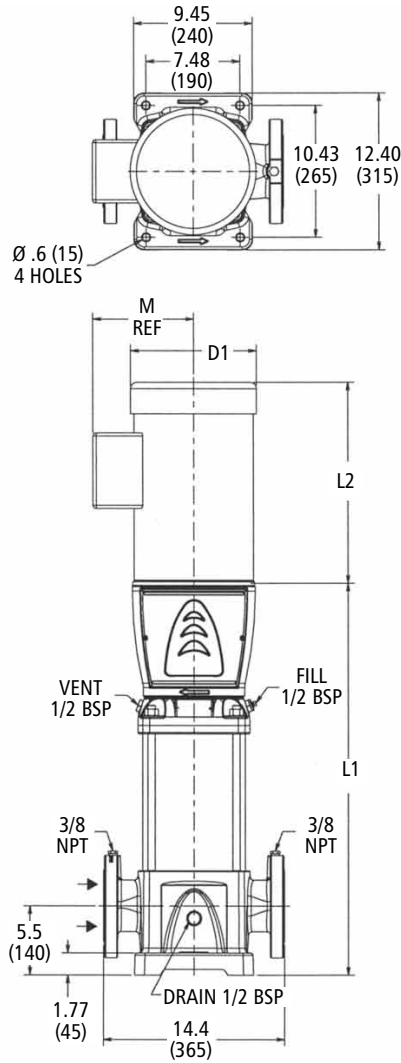
66SV Curve 3500 RPM



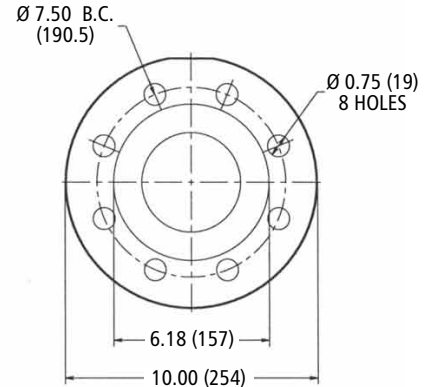
MINIMUM FLOW RATE: 70 GPM [16 m³/hr]

Dimensions and Weights

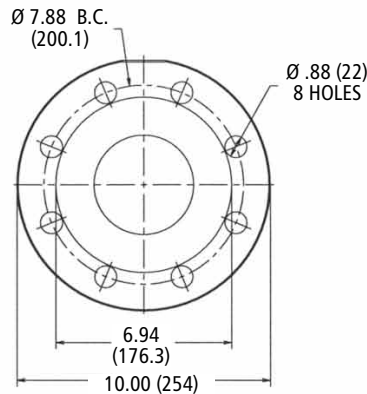
92SV Series 3500 RPM



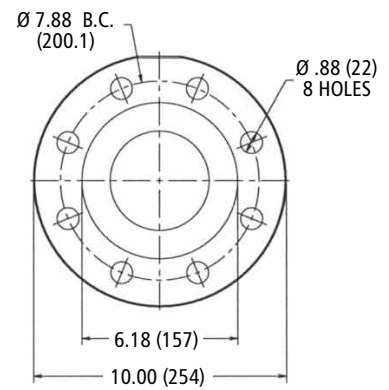
Cast Iron
4" Class 125 R.F.
(1 – 3 Stages)



316SS
4" Class 150 R.F.
(1 – 3 Stages)



Cast Iron
4" Class 250 R.F.
(4 – 6 Stages)

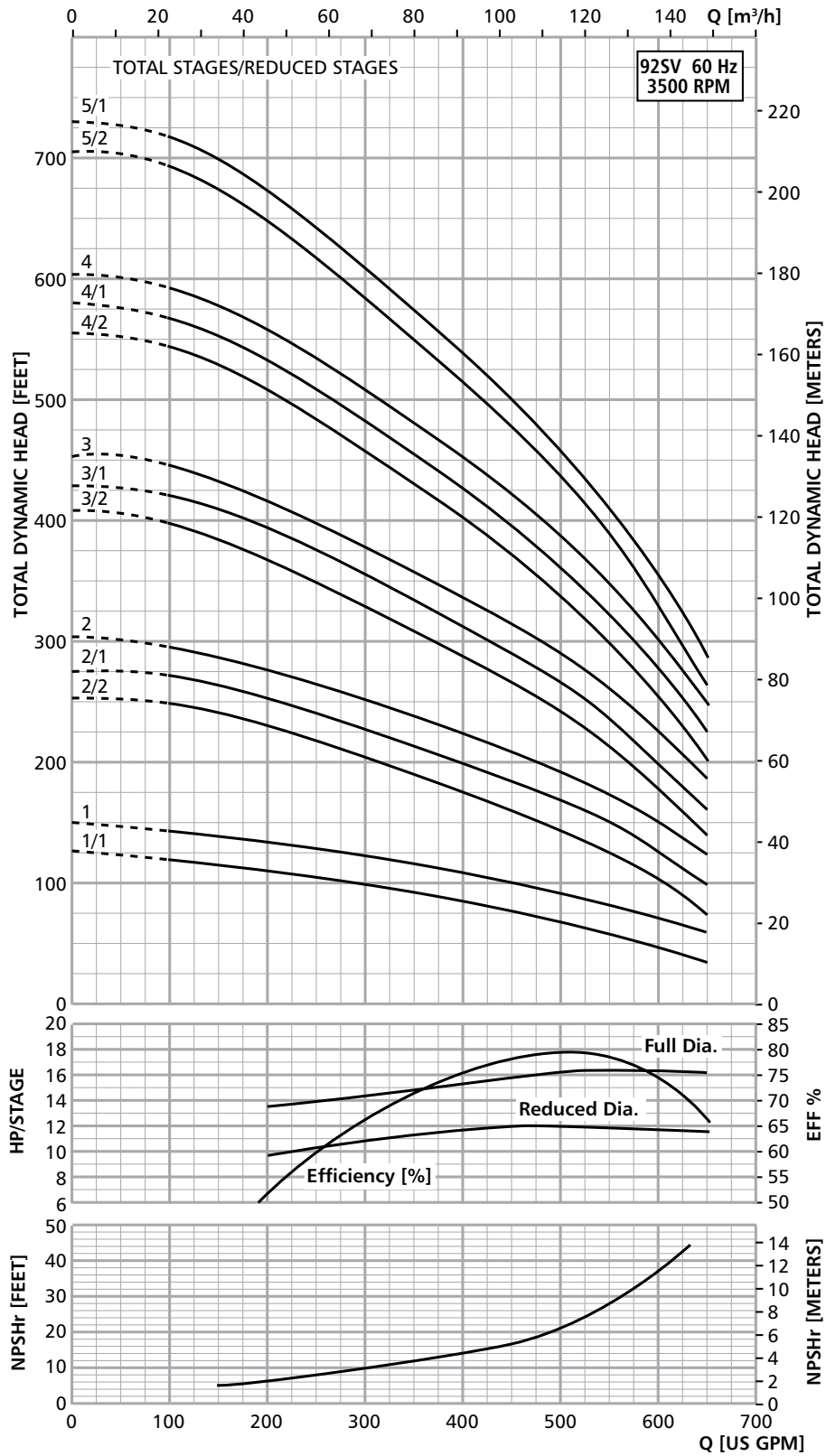


316SS
4" Class 300 R.F.
(4 – 6 Stages)

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	15	-	-	215TC	254TC	23.19	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	185	-	-	128	250	-	-	313	435
92SV-2/2	25	-	-	256TC	284TC	28.31	-	-	18.00	23.38	13.12	-	-	11.63	15.31	5.51	210	-	-	240	420	-	-	450	630
92SV-2/1	30	-	-	284TC	284TC	28.31	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	210	-	-	325	445	-	-	535	655
92SV-2		-	-			28.31	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	210	-	-	325	445	-	-	535	655
92SV-3/2	40	-	-	284TC	284TC	31.18	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	328	448	-	-	551	671
92SV-3/1		-	-			31.18	-	-	20.12	23.38	13.12	-	-	13.25	15.31	5.51	223	-	-	328	448	-	-	551	671
92SV-3	50	-	-	326TSC	326TSC	31.28	-	-	22.50	23.38	13.12	-	-	13.25	15.31	5.51	231	-	-	382	592	-	-	613	823
92SV-4/2	60	-	-	326TSC	364TSC	34.88	-	-	22.50	27.22	13.12	-	-	13.25	19.00	5.51	242	-	-	474	736	-	-	716	978
92SV-4/1		-	-			34.88	-	-	22.50	27.22	13.12	-	-	13.25	19.00	5.51	242	-	-	474	736	-	-	716	978
92SV-4		-	-			34.88	-	-	22.50	27.22	13.12	-	-	13.25	19.00	5.51	242	-	-	474	736	-	-	716	978
92SV-5/2	75	-	-	365TSC	365TSC	38.44	-	-	24.12	27.22	14.96	-	-	15.12	19.00	5.51	252	-	-	500	762	-	-	752	1014
92SV-5/1		-	-			38.44	-	-	24.12	27.22	14.96	-	-	15.12	19.00	5.51	252	-	-	500	762	-	-	752	1014

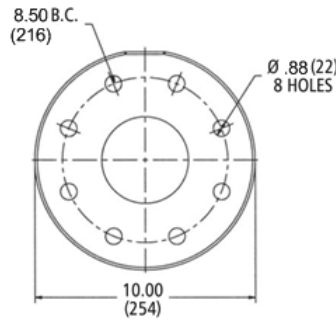
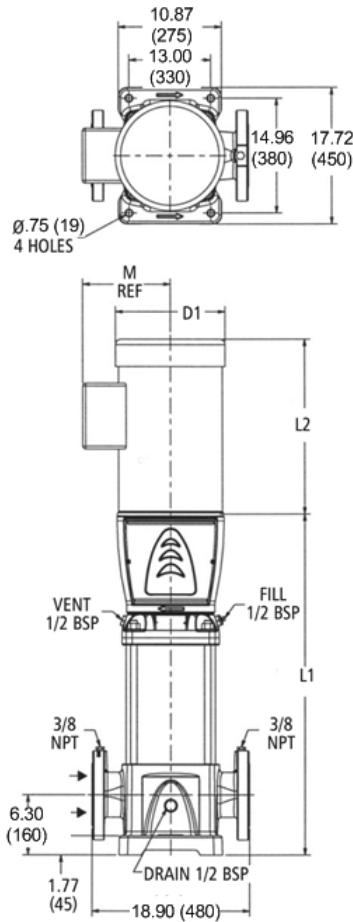
92SV Curve 3500 RPM



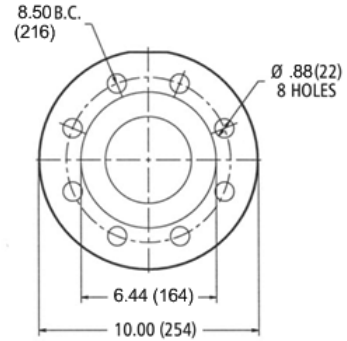
MINIMUM FLOW RATE: 100 GPM [23 m³/hr]

Dimensions and Weights

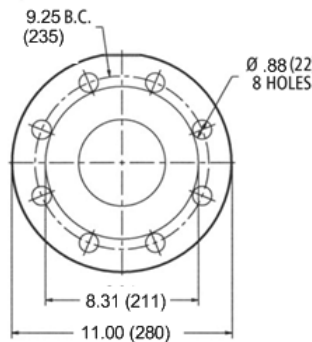
125SV Series 3500 RPM



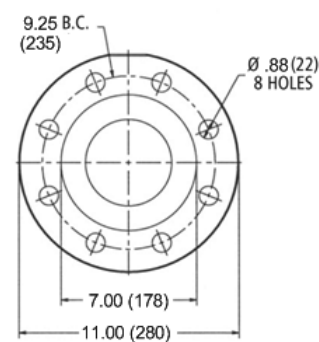
Cast Iron
5" Class 125 R.F.



316SS
5" Class 150 R.F.



Cast Iron
5" Class 250 R.F.

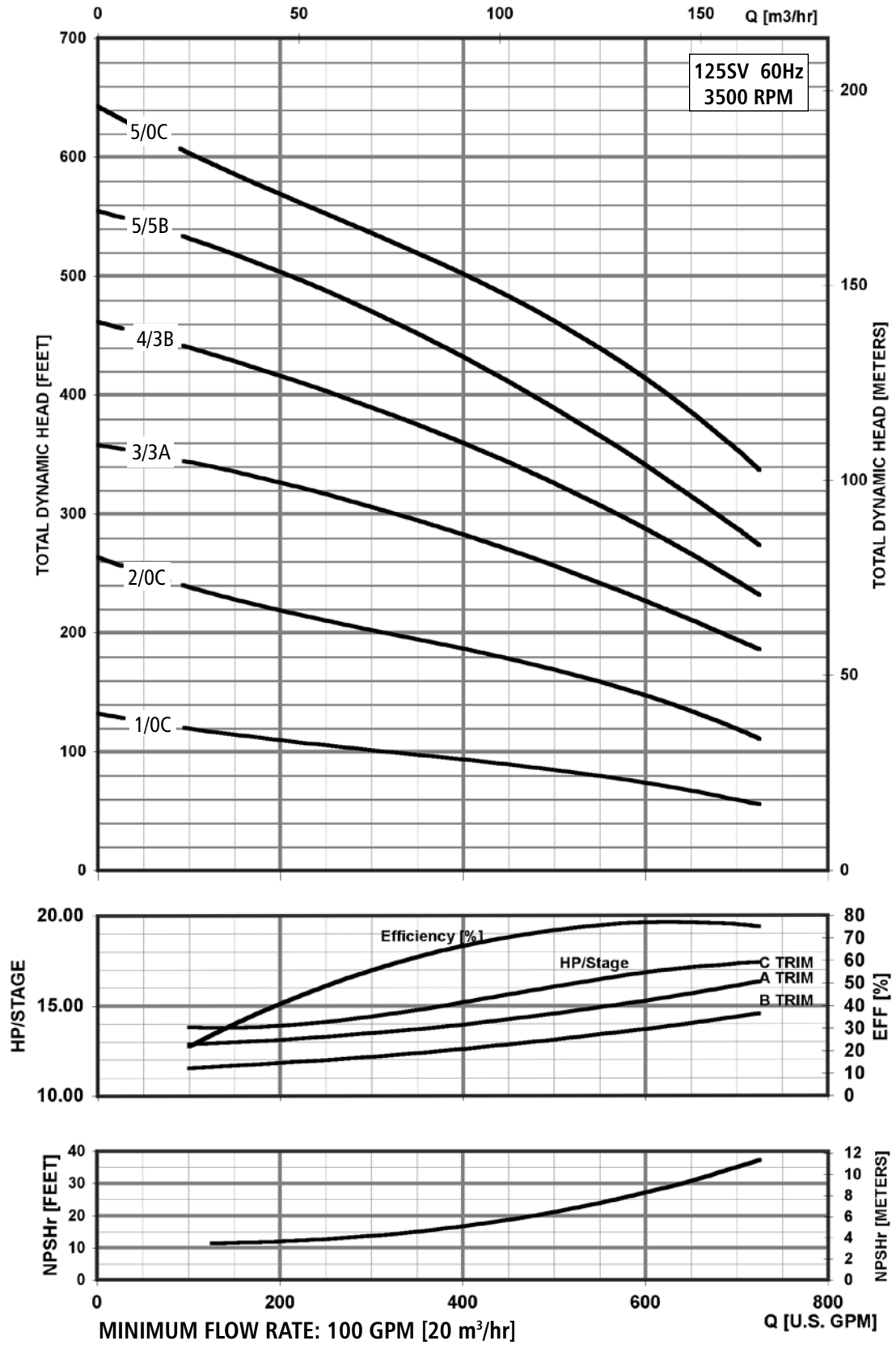


316SS
5" Class 300 R.F.

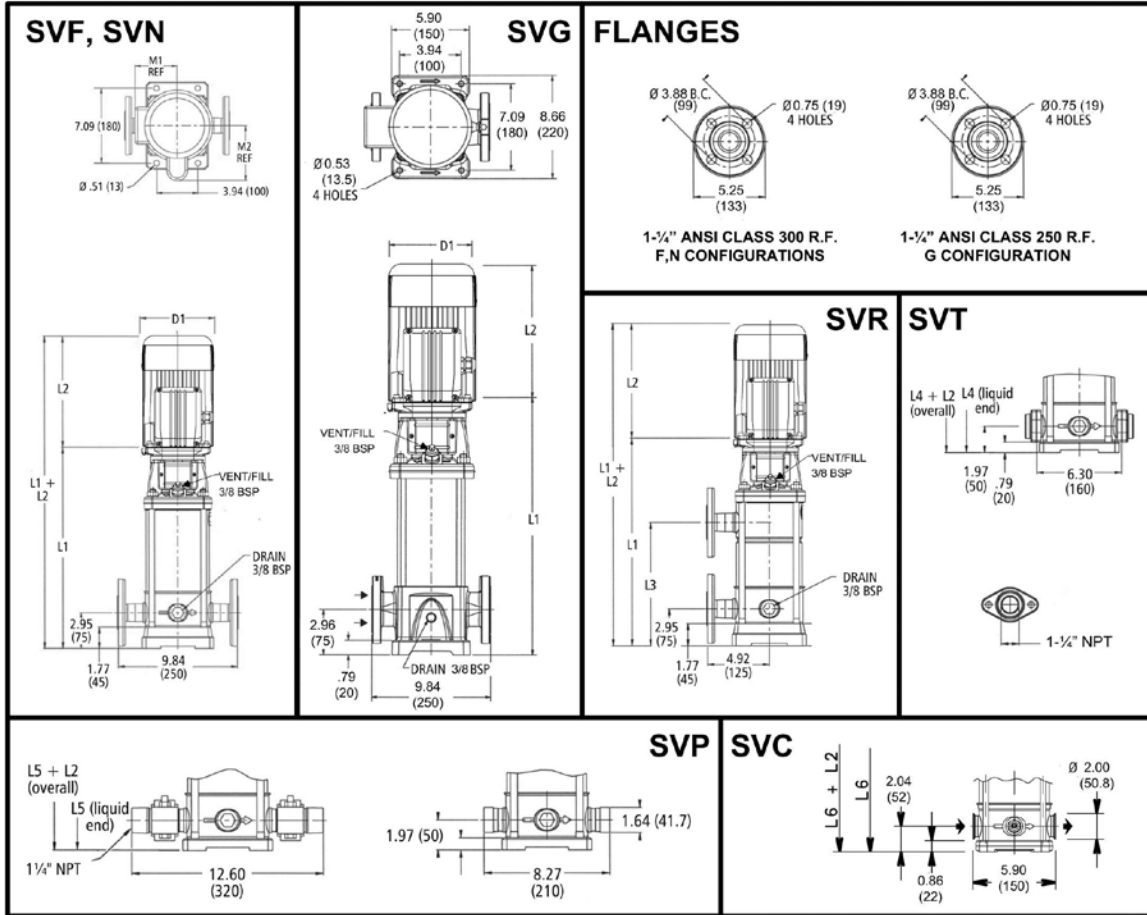
All dimensions are in inches (mm).

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 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
125SV10C	15	-	-	215TC	254TC	27.3	-	-	15.55	16.57	-	-	-	-	9.22	-	-	10.18	10.28	4.72	264	-	-	125	195	-	-	389	459
125SV20C	30	-	-	284TC	286TC	34.6	-	-	21.75	19.54	-	-	-	12.21	-	-	13.25	12.94	5.51	291	-	-	296	382	-	-	587	673	
125SV33A	40	-	-	286TC	286TC	40.5	-	-	21.75	23.18	-	-	-	13.11	-	-	13.25	15.56	5.51	328	-	-	315	446	-	-	643	774	
125SV43B	50	-	-	324TSC	326TSC	40.5	-	-	22.75	23.19	-	-	-	12.21	-	-	13.03	15.69	5.51	330	-	-	320	450	-	-	650	780	
125SV55B	60	-	-	324TSC	326TSC	46.4	-	-	22.75	30.69	-	-	-	14.95	-	-	13.03	19.25	5.51	361	-	-	372	689	-	-	733	1050	
125SV50C	75	-	-	364TSC	365TSC	52.3	-	-	24.38	30.69	-	-	-	14.95	-	-	15.13	19.25	5.51	416	-	-	447	747	-	-	863	1163	

125SV Curve 3500 RPM



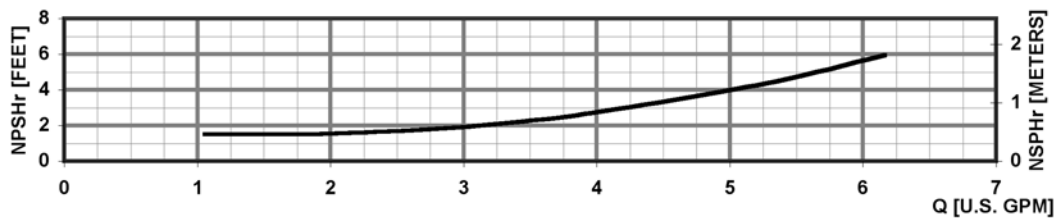
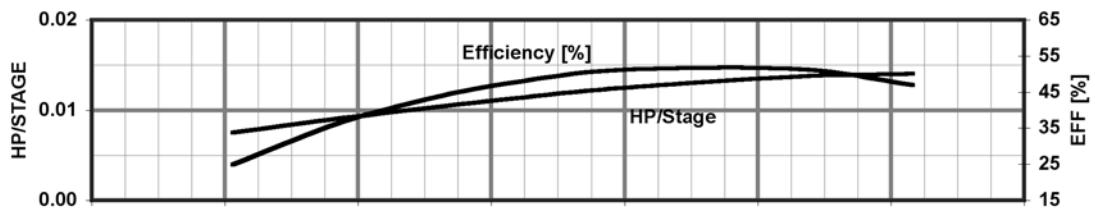
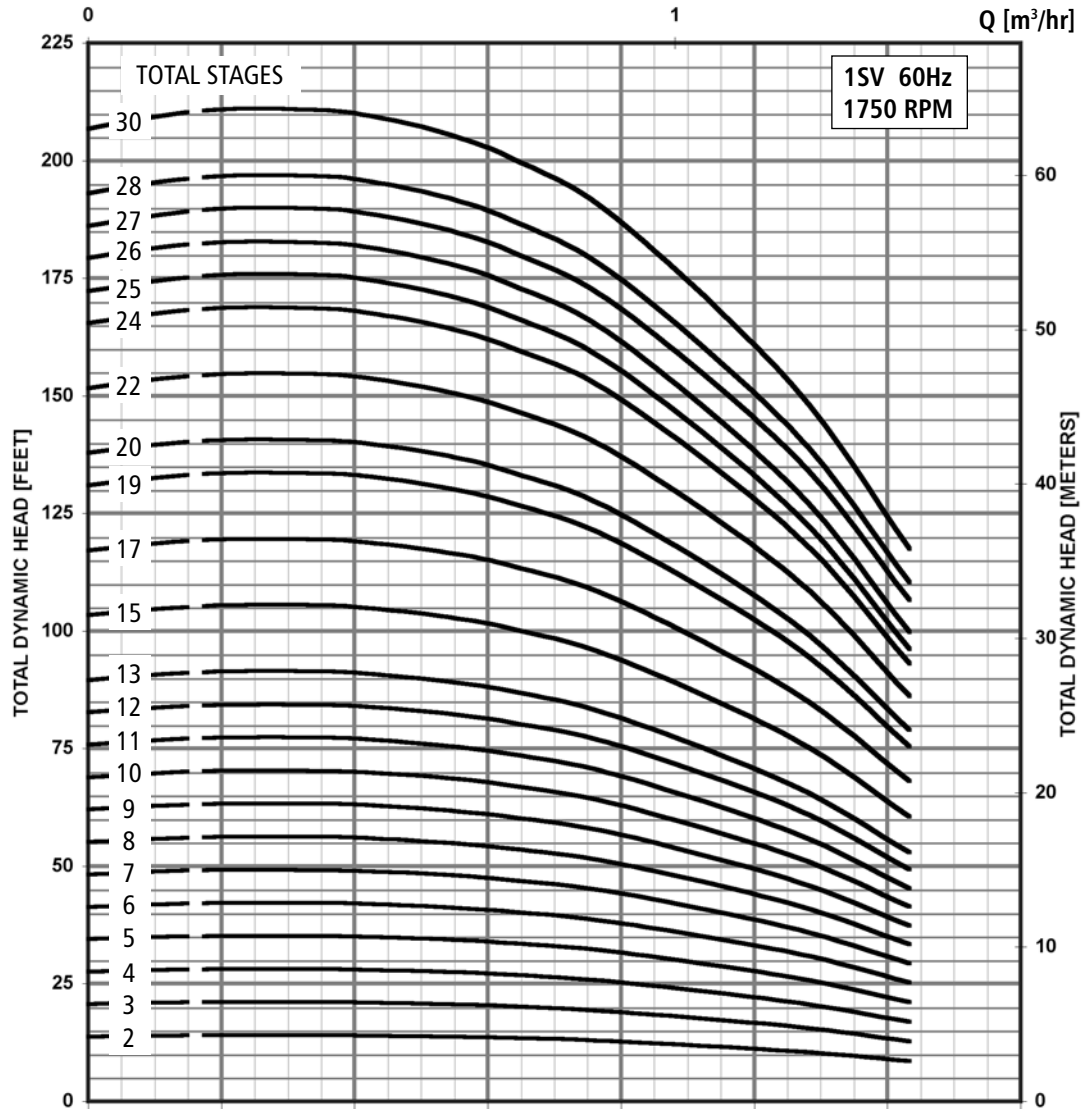
Dimensions and Weights
1SV Series 1750 RPM



All dimensions are in inches (mm).

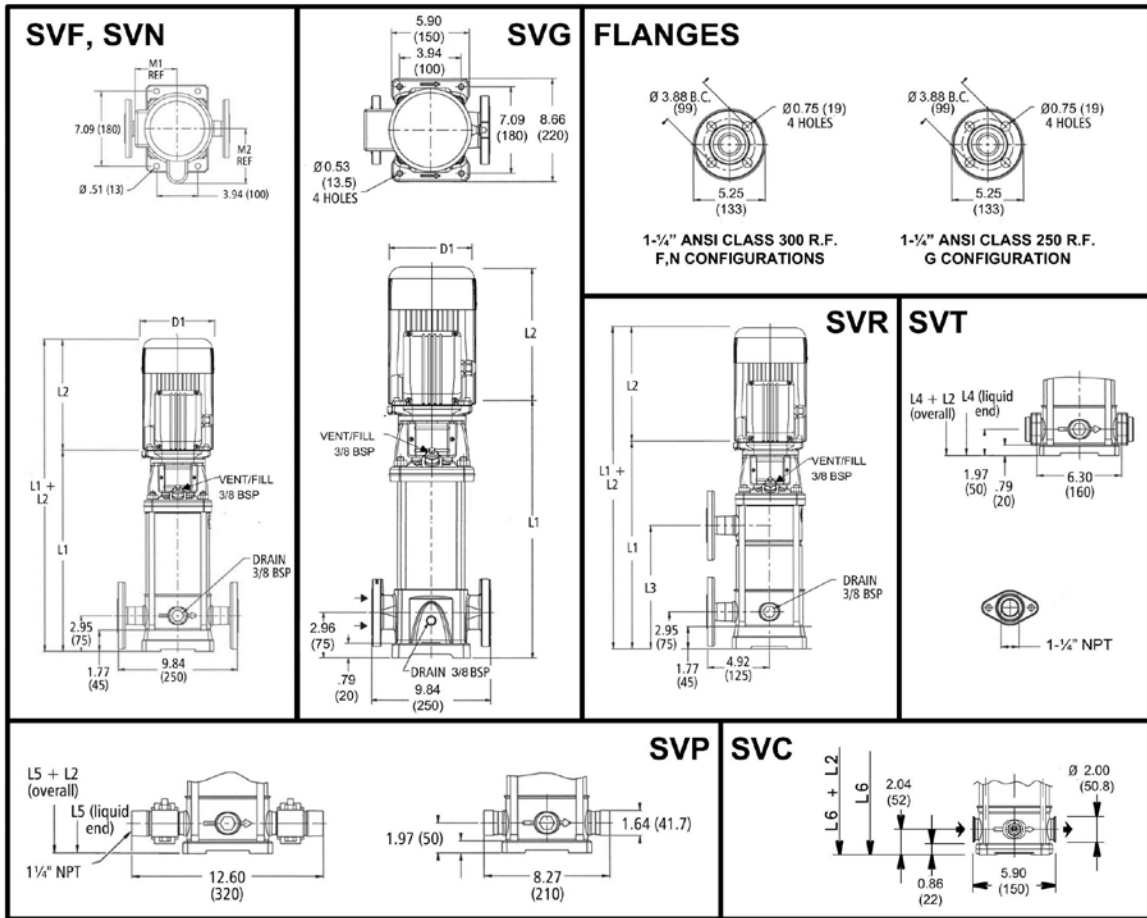
Pump Type	HP	Motor					Dimensions (in)										Weight (lbs.)													
		NEMA Frame					L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø		TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø						TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø			TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	
1SV-02	0.5	56C	13.24	9.41	9.91	9.16	9.29	-	-	9.96	9.96	5.19	6.20	6.19	6.19	6.19	4.13	21	24	27	21	23	45	48	42	44				
1SV-03			13.24	9.41	9.91	9.16	9.29	-	-	9.96	9.96	5.19	6.20	6.19	6.19	6.19	4.13	21	24	27	21	23	45	48	42	44				
1SV-04			14.03	9.41	9.91	9.16	9.29	-	-	10.75	10.75	5.19	6.20	6.19	6.19	6.19	4.13	22	24	27	21	23	46	49	43	45				
1SV-05			14.82	9.41	9.91	9.16	9.29	-	-	11.54	11.54	5.19	6.20	6.19	6.19	6.19	4.13	23	24	27	21	23	47	50	44	46				
1SV-06			15.61	9.41	9.91	9.16	9.29	-	-	12.32	12.32	5.19	6.20	6.19	6.19	6.19	4.13	24	24	27	21	23	48	51	45	47				
1SV-07			16.39	9.41	9.91	9.16	9.29	14.09	8.15	13.11	13.11	5.19	6.20	6.19	6.19	6.19	4.13	25	24	27	21	23	49	52	46	48				
1SV-08			17.18	9.41	9.91	9.16	9.29	14.88	8.94	13.90	13.90	5.19	6.20	6.19	6.19	6.19	4.13	25	24	27	21	23	49	52	46	48				
1SV-09			17.97	9.41	9.91	9.16	9.29	15.67	9.72	14.69	14.69	5.19	6.20	6.19	6.19	6.19	4.13	26	24	27	21	23	50	53	47	49				
1SV-10			18.76	9.41	9.91	9.16	9.29	16.46	10.51	15.47	15.47	5.19	6.20	6.19	6.19	6.19	4.13	27	24	27	21	23	51	54	48	50				
1SV-11			19.54	9.41	9.91	9.16	9.29	17.24	11.30	16.26	16.26	5.19	6.20	6.19	6.19	6.19	4.13	28	24	27	21	23	52	55	49	51				
1SV-12			20.33	9.41	9.91	9.16	9.29	18.43	12.09	17.44	17.44	5.19	6.20	6.19	6.19	6.19	4.13	30	24	27	21	23	54	57	51	53				
1SV-13			21.11	9.41	9.91	9.16	9.29	19.21	12.87	18.23	18.23	5.19	6.20	6.19	6.19	6.19	4.13	31	24	27	21	23	55	58	52	54				
1SV-14			21.90	9.41	9.91	9.16	9.29	19.99	13.65	19.01	19.01	5.19	6.20	6.19	6.19	6.19	4.13	32	24	27	21	23	56	59	53	55				
1SV-15			22.69	9.41	9.91	9.16	9.29	20.79	14.45	19.80	19.80	5.19	6.20	6.19	6.19	6.19	4.13	33	24	27	21	23	57	60	54	56				
1SV-16			23.47	9.41	9.91	9.16	9.29	21.57	15.23	20.58	20.58	5.19	6.20	6.19	6.19	6.19	4.13	35	24	27	21	23	59	62	56	58				
1SV-17			24.26	9.41	9.91	9.16	9.29	22.36	16.02	21.38	21.38	5.19	6.20	6.19	6.19	6.19	4.13	37	24	27	21	23	61	64	58	60				
1SV-18			25.05	9.41	9.91	9.16	9.29	23.14	16.80	22.16	22.16	5.19	6.20	6.19	6.19	6.19	4.13	38	24	27	21	23	62	65	59	61				
1SV-19			25.84	9.41	9.91	9.16	9.29	23.94	17.60	22.95	22.95	5.19	6.20	6.19	6.19	6.19	4.13	39	24	27	21	23	63	66	60	62				
1SV-20			26.62	9.41	9.91	9.16	9.29	24.72	18.38	23.73	23.73	5.19	6.20	6.19	6.19	6.19	4.13	40	24	27	21	23	64	67	61	63				
1SV-21			27.41	9.41	9.91	9.16	9.29	25.50	19.16	24.51	24.51	5.19	6.20	6.19	6.19	6.19	4.13	41	24	27	21	23	65	68	62	64				
1SV-22			28.20	9.41	9.91	9.16	9.29	26.30	19.96	25.31	25.31	5.19	6.20	6.19	6.19	6.19	4.13	42	24	27	21	23	66	69	63	65				
1SV-23			28.99	9.41	9.91	9.16	9.29	27.08	20.74	26.09	26.09	5.19	6.20	6.19	6.19	6.19	4.13	44	24	27	21	23	68	71	65	67				
1SV-24			29.77	9.41	9.91	9.16	9.29	27.86	21.52	26.87	26.87	5.19	6.20	6.19	6.19	6.19	4.13	46	24	27	21	23	70	73	67	69				
1SV-25			30.56	9.41	9.91	9.16	9.29	29.06	22.32	28.07	28.07	5.19	6.20	6.19	6.19	6.19	4.13	46	24	27	21	23	70	73	67	69				
1SV-26			31.34	9.41	9.91	9.16	9.29	29.84	23.10	28.85	28.85	5.19	6.20	6.19	6.19	6.19	4.13	48	24	27	21	23	72	75	69	71				
1SV-27			32.13	9.41	9.91	9.16	9.29	30.63	23.90	29.64	29.65	5.19	6.20	6.19	6.19	6.19	4.13	48	24	27	21	23	72	75	69	71				
1SV-28			32.92	9.41	9.91	9.16	9.29	31.41	24.68	30.42	30.43	5.19	6.20	6.19	6.19	6.19	4.13	50	24	27	21	23	74	77	71	73				
1SV-29			34.10	9.41	9.91	9.16	9.29	32.19	25.46	31.20	31.21	5.19	6.20	6.19	6.19	6.19	4.13	51	24	27	21	23	75	78	72	74				
1SV-30			34.49	9.41	9.91	9.16	9.29	32.99	26.26	31.99	32.01	5.19	6.20	6.19	6.19	6.19	4.13	51	24	27	21	23	75	78	72	74				

1SV Curve 1750 RPM



MINIMUM FLOW RATE: 1 GPM [.24 m³/hr]

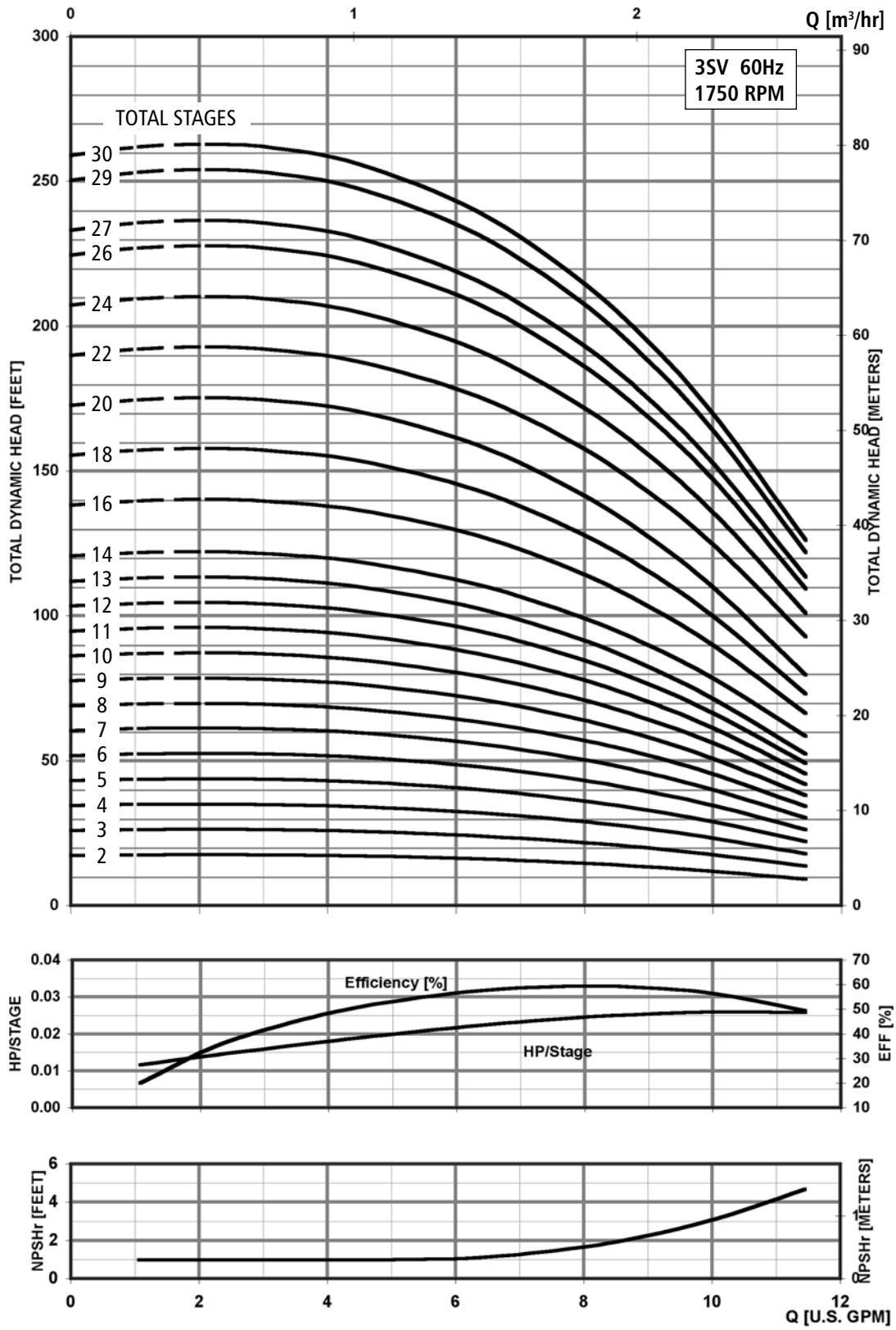
Dimensions and Weights
3SV Series 1750 RPM



All dimensions are in inches (mm).

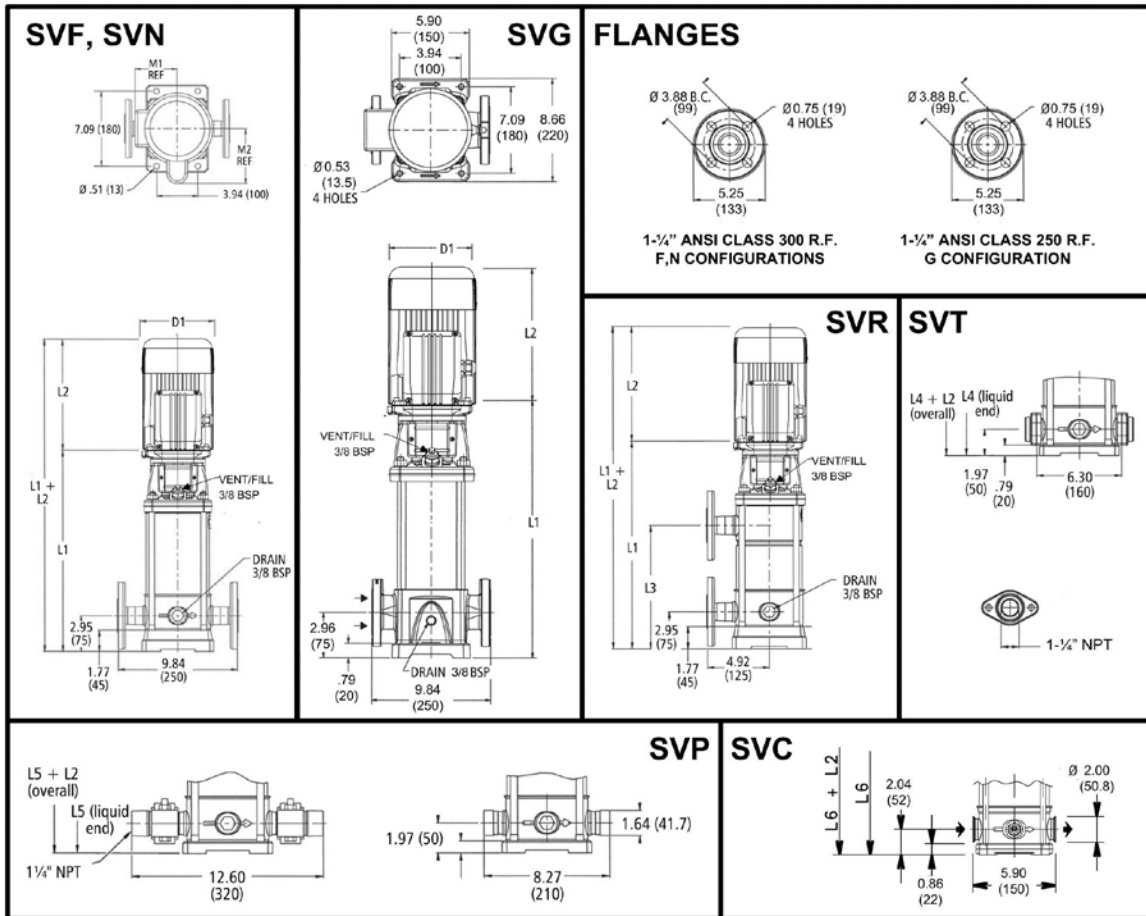
Pump Type	Motor					Dimensions (in)											Weight (lbs.)												
	HP	NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
3SV-02	0.5	56C	13.24	9.41	9.91	9.16	9.29	-	-	9.96	9.96	5.19	6.20	6.19	6.19	6.19	4.13	26	24	27	21	23	50	53	47	49			
3SV-03			13.24	9.41	9.91	9.16	9.29	-	-	9.96	9.96	5.19	6.20	6.19	6.19	6.19	4.13	27	24	27	21	23	51	54	48	50			
3SV-04			14.03	9.41	9.91	9.16	9.29	-	-	10.75	10.75	5.19	6.20	6.19	6.19	6.19	4.13	28	24	27	21	23	52	55	49	51			
3SV-05			14.82	9.41	9.91	9.16	9.29	-	-	11.54	11.54	5.19	6.20	6.19	6.19	6.19	4.13	29	24	27	21	23	53	56	50	52			
3SV-06			15.61	9.41	9.91	9.16	9.29	-	-	12.32	12.32	5.19	6.20	6.19	6.19	6.19	4.13	30	24	27	21	23	54	57	51	53			
3SV-07			16.39	9.41	9.91	9.16	9.29	14.49	8.15	13.50	13.50	5.19	6.20	6.19	6.19	6.19	4.13	32	24	27	21	23	56	59	53	55			
3SV-08			17.18	9.41	9.91	9.16	9.29	15.28	8.94	14.29	14.29	5.19	6.20	6.19	6.19	6.19	4.13	33	24	27	21	23	57	60	54	56			
3SV-09			17.96	9.41	9.91	9.16	9.29	16.06	9.72	15.08	15.08	5.19	6.20	6.19	6.19	6.19	4.13	34	24	27	21	23	58	61	55	57			
3SV-10			18.75	9.41	9.91	9.16	9.29	16.85	10.51	15.87	15.87	5.19	6.20	6.19	6.19	6.19	4.13	35	24	27	21	23	59	62	56	58			
3SV-11			19.54	9.41	9.91	9.16	9.29	17.64	11.30	16.65	16.65	5.19	6.20	6.19	6.19	6.19	4.13	36	24	27	21	23	60	63	57	59			
3SV-12			20.33	9.41	9.91	9.16	9.29	18.43	12.09	17.44	17.44	5.19	6.20	6.19	6.19	6.19	4.13	38	24	27	21	23	62	65	59	61			
3SV-13			21.11	9.41	9.91	9.16	9.29	19.61	12.87	18.62	18.62	5.19	6.20	6.19	6.19	6.19	4.13	39	24	27	21	23	63	66	60	62			
3SV-14			21.89	9.41	9.91	9.16	9.29	20.39	13.66	19.41	19.41	5.19	6.20	6.19	6.19	6.19	4.13	40	24	27	21	23	64	67	61	63			
3SV-15			22.68	9.41	9.91	9.16	9.29	21.18	14.45	20.20	20.20	5.19	6.20	6.19	6.19	6.19	4.13	42	24	27	21	23	66	69	63	65			
3SV-16			23.47	9.41	9.91	9.16	9.29	21.97	15.24	20.98	20.98	5.19	6.20	6.19	6.19	6.19	4.13	42	24	27	21	23	66	69	63	65			
3SV-17			24.26	9.41	9.91	9.16	9.29	22.76	16.03	21.77	21.77	5.19	6.20	6.19	6.19	6.19	4.13	44	24	27	21	23	68	71	65	67			
3SV-18			25.04	9.41	9.91	9.16	9.29	23.55	16.82	22.56	22.56	5.19	6.20	6.19	6.19	6.19	4.13	45	24	27	21	23	69	72	66	68			
3SV-19			25.83	9.41	9.91	9.16	9.29	24.33	17.60	23.35	23.35	5.19	6.20	6.19	6.19	6.19	4.13	45	24	27	21	23	69	72	66	68			
3SV-20			26.62	9.41	9.91	9.16	9.29	25.12	18.39	24.14	24.14	5.19	6.20	6.19	6.19	6.19	4.13	46	24	27	21	23	70	73	67	69			
3SV-21			27.41	9.41	9.91	9.16	9.29	25.91	19.17	24.92	24.92	5.19	6.20	6.19	6.19	6.19	4.13	47	24	27	21	23	71	74	68	70			
3SV-22			28.19	9.41	9.91	9.16	9.29	26.70	19.96	25.71	25.71	5.19	6.20	6.19	6.19	6.19	4.13	48	24	27	21	23	72	75	69	71			
3SV-23			28.98	9.41	9.91	9.16	9.29	27.48	20.75	-	26.50	5.19	6.20	6.19	6.19	6.19	4.13	49	24	27	21	23	73	76	70	72			
3SV-24			29.77	9.41	9.91	9.16	9.29	28.27	21.54	-	27.29	5.19	6.20	6.19	6.19	6.19	4.13	50	24	27	21	23	74	77	71	73			
3SV-25			30.56	9.41	9.91	9.16	9.29	29.06	22.32	-	28.07	5.19	6.20	6.19	6.19	6.19	4.13	51	24	27	21	23	75	78	72	74			
3SV-26			31.34	10.79	9.91	9.16	9.29	29.85	23.11	-	28.86	5.19	6.19	6.19	6.19	6.19	4.13	52	27	29	21	21	79	81	73	73			
3SV-27			31.63	10.79	9.91	9.16	9.29	31.02	23.90	-	30.04	5.19	6.19	6.19	6.19	6.19	4.13	55	27	29	21	21	82	84	76	76			
3SV-28			32.42	10.79	9.91	9.16	9.29	31.81	24.69	-	30.83	5.19	6.19	6.19	6.19	6.19	4.13	55	27	29	21	21	83	85	77	77			
3SV-29			33.60	10.79	9.91	9.16	9.29	32.60	25.47	-	31.61	5.19	6.19	6.19	6.19	6.19	4.13	57	27	29	21	21	84	86	78	78			
3SV-30			34.39	10.79	9.91	9.16	9.29	33.39	26.26	-	32.40	5.19	6.19	6.19	6.19	6.19	4.13	58	27	29	21	21	85	87	79	79			

3SV Curve 1750 RPM



Dimensions and Weights

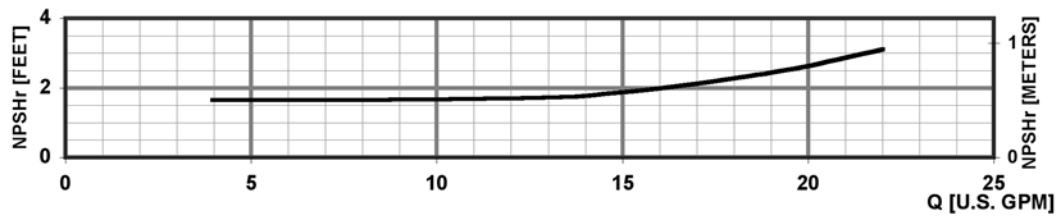
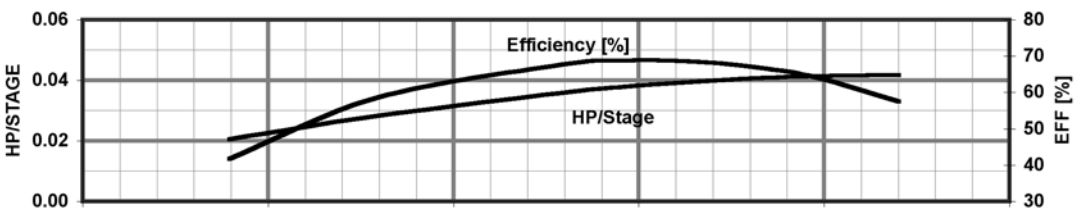
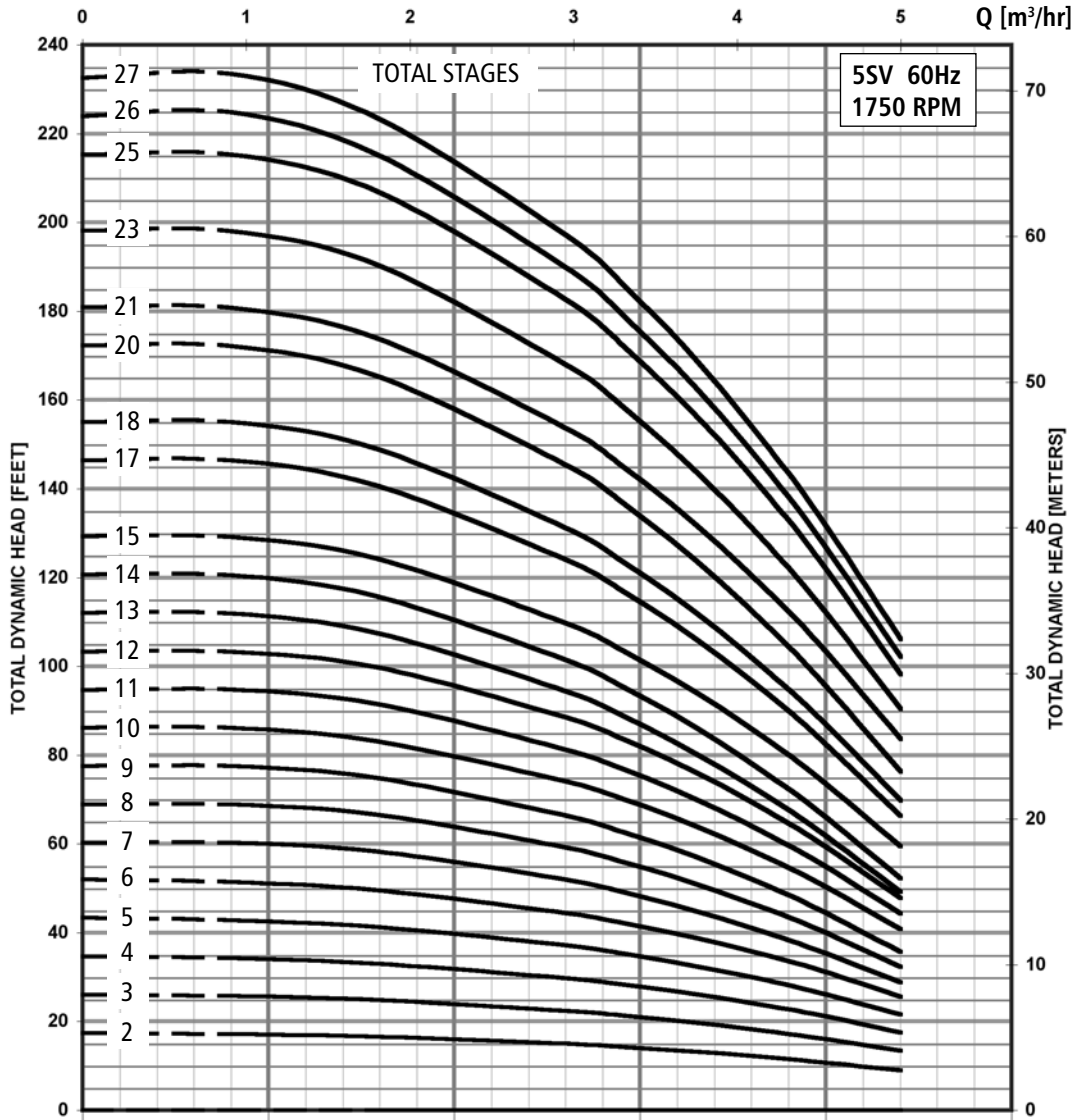
SSV Series 1750 RPM



All dimensions are in inches (mm).

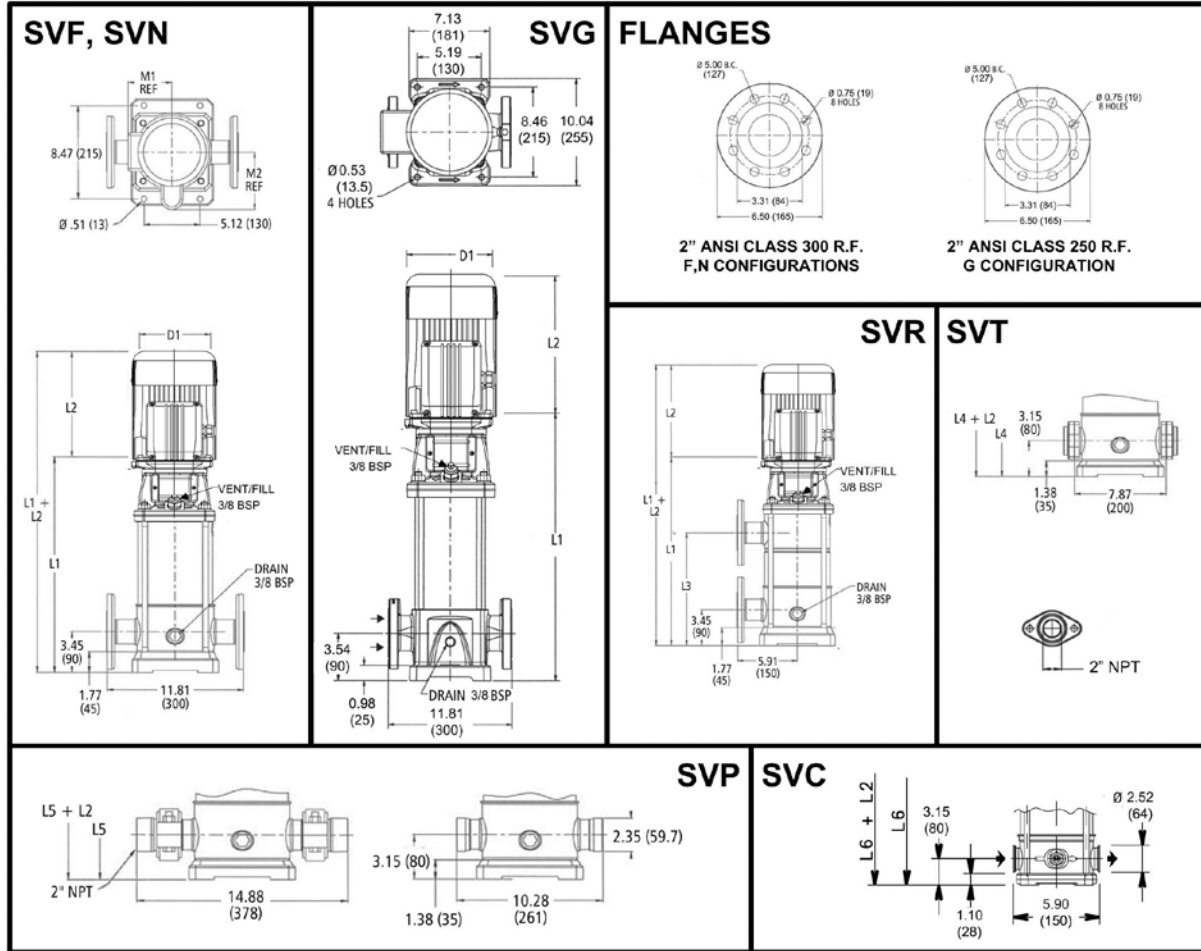
Pump Type	HP	Motor				Dimensions (in)										Weight (lbs.)													
		NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø			ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø
55V-02	0.5	56C	12.85	9.16	9.29	9.16	9.29	-	-	9.57	9.57	5.19	6.20	6.19	6.19	6.19	4.13	27	21	21	19	19	48	48	46	46			
55V-03			13.84	9.16	9.29	9.16	9.29	-	-	10.55	10.55	5.19	6.20	6.19	6.19	6.19	4.13	28	21	21	19	19	49	49	47	47			
55V-04			14.82	9.16	9.29	9.16	9.29	-	-	11.54	11.54	5.19	6.20	6.19	6.19	6.19	4.13	30	21	21	19	19	51	51	49	49			
55V-05			15.80	9.16	9.29	9.16	9.29	-	-	12.91	12.91	5.19	6.20	6.19	6.19	6.19	4.13	31	21	21	19	19	52	52	50	50			
55V-06			16.78	9.16	9.29	9.16	9.29	-	-	13.90	13.90	5.19	6.20	6.19	6.19	6.19	4.13	32	21	21	19	19	53	53	51	51			
55V-07			17.77	9.16	9.29	9.16	9.29	15.87	9.53	14.88	14.88	5.19	6.20	6.19	6.19	6.19	4.13	34	21	21	19	19	55	55	53	53			
55V-08			18.75	9.16	9.29	9.16	9.29	16.85	10.51	15.87	15.87	5.19	6.20	6.19	6.19	6.19	4.13	35	21	21	19	19	56	56	54	54			
55V-09			19.73	9.16	9.29	9.16	9.29	18.23	11.50	17.24	17.24	5.19	6.20	6.19	6.19	6.19	4.13	36	21	21	19	19	57	57	55	55			
55V-10			20.71	9.16	9.29	9.16	9.29	19.21	12.48	18.23	18.23	5.19	6.20	6.19	6.19	6.19	4.13	37	21	21	19	19	58	58	56	56			
55V-11			21.70	9.16	9.29	9.16	9.29	20.20	13.46	19.21	19.21	5.19	6.20	6.19	6.19	6.19	4.13	38	21	21	19	19	59	59	57	57			
55V-12			22.68	9.16	9.29	9.16	9.29	21.18	14.45	20.20	20.20	5.19	6.20	6.19	6.19	6.19	4.13	39	21	21	19	19	60	60	58	58			
55V-13			23.67	9.16	9.29	9.16	9.29	22.17	15.43	21.18	21.18	5.19	6.20	6.19	6.19	6.19	4.13	41	21	21	19	19	62	62	60	60			
55V-14			24.65	9.16	9.29	9.16	9.29	23.15	16.42	22.17	22.17	5.19	6.20	6.19	6.19	6.19	4.13	42	21	21	19	19	63	63	61	61			
55V-15			25.63	9.16	9.29	9.16	9.29	24.13	17.40	23.15	23.15	5.19	6.20	6.19	6.19	6.19	4.13	43	21	21	19	19	64	64	62	62			
55V-16			26.62	9.16	9.29	9.16	9.29	25.12	18.39	24.13	24.13	5.19	6.20	6.19	6.19	6.19	4.13	44	21	21	19	19	65	65	63	63			
55V-17			27.80	10.79	9.91	9.16	9.29	26.10	19.37	25.11	25.11	5.19	6.19	6.19	6.19	6.19	4.13	45	27	29	21	21	72	74	66	66			
55V-18	28.63	10.79	9.91	9.16	9.29	27.48	20.35	26.50	26.50	5.19	6.19	6.19	6.19	6.19	4.13	48	27	29	21	21	75	77	69	69					
55V-19	29.81	10.79	9.91	9.16	9.29	28.46	21.33	27.48	27.48	5.19	6.19	6.19	6.19	6.19	4.13	49	27	29	21	21	76	78	70	70					
55V-20	30.99	10.79	9.91	9.16	9.29	29.44	22.31	28.46	28.46	5.19	6.19	6.19	6.19	6.19	4.13	51	27	29	21	21	78	80	72	72					
55V-21	31.58	10.79	9.91	9.16	9.29	30.43	23.31	29.45	29.45	5.19	6.19	6.19	6.19	6.19	4.13	51	27	29	21	21	78	80	72	72					
55V-22	32.65	10.79	9.91	9.16	9.29	31.41	24.29	30.43	30.43	5.19	6.19	6.19	6.19	6.19	4.13	53	27	29	21	21	80	82	74	74					
55V-23	33.55	10.79	9.91	9.16	9.29	32.40	25.28	-	31.42	5.19	6.19	6.19	6.19	6.19	4.13	54	27	29	21	21	81	83	75	75					
55V-24	34.61	10.79	9.91	9.16	9.29	33.38	26.26	-	32.40	5.19	6.19	6.19	6.19	6.19	4.13	55	27	29	21	21	82	84	76	76					
55V-25	35.52	10.66	11.19	9.16	9.29	34.37	27.24	-	33.39	5.74	6.20	7.19	6.19	6.19	4.13	56	32	40	23	23	88	96	79	79					
55V-26	36.58	10.66	11.19	9.16	9.29	35.35	28.22	-	34.37	5.74	6.20	7.19	6.19	6.19	4.13	57	32	40	23	23	89	97	80	80					
55V-27	37.57	10.66	11.19	9.16	9.29	36.33	29.20	-	35.35	5.74	6.20	7.19	6.19	6.19	4.13	58	32	40	23	23	90	98	81	81					

5SV Curve 1750 RPM



MINIMUM FLOW RATE: 3 GPM [.7 m³/hr]

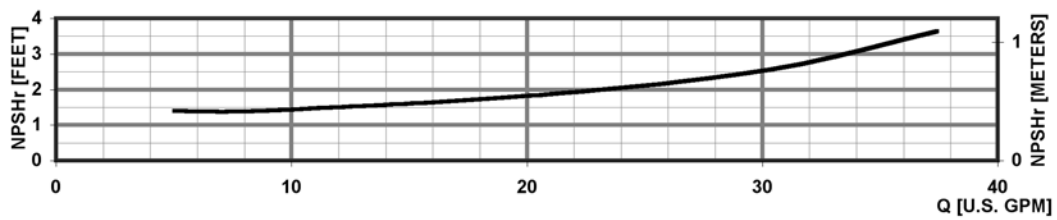
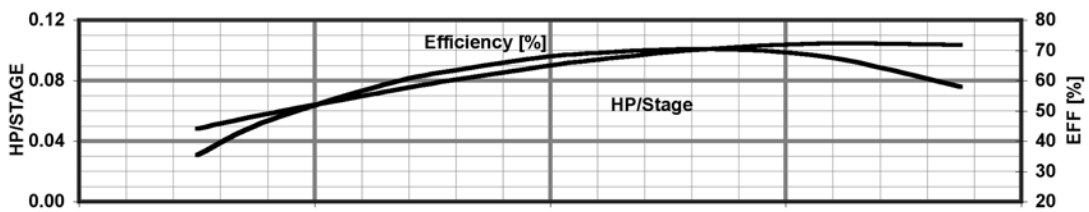
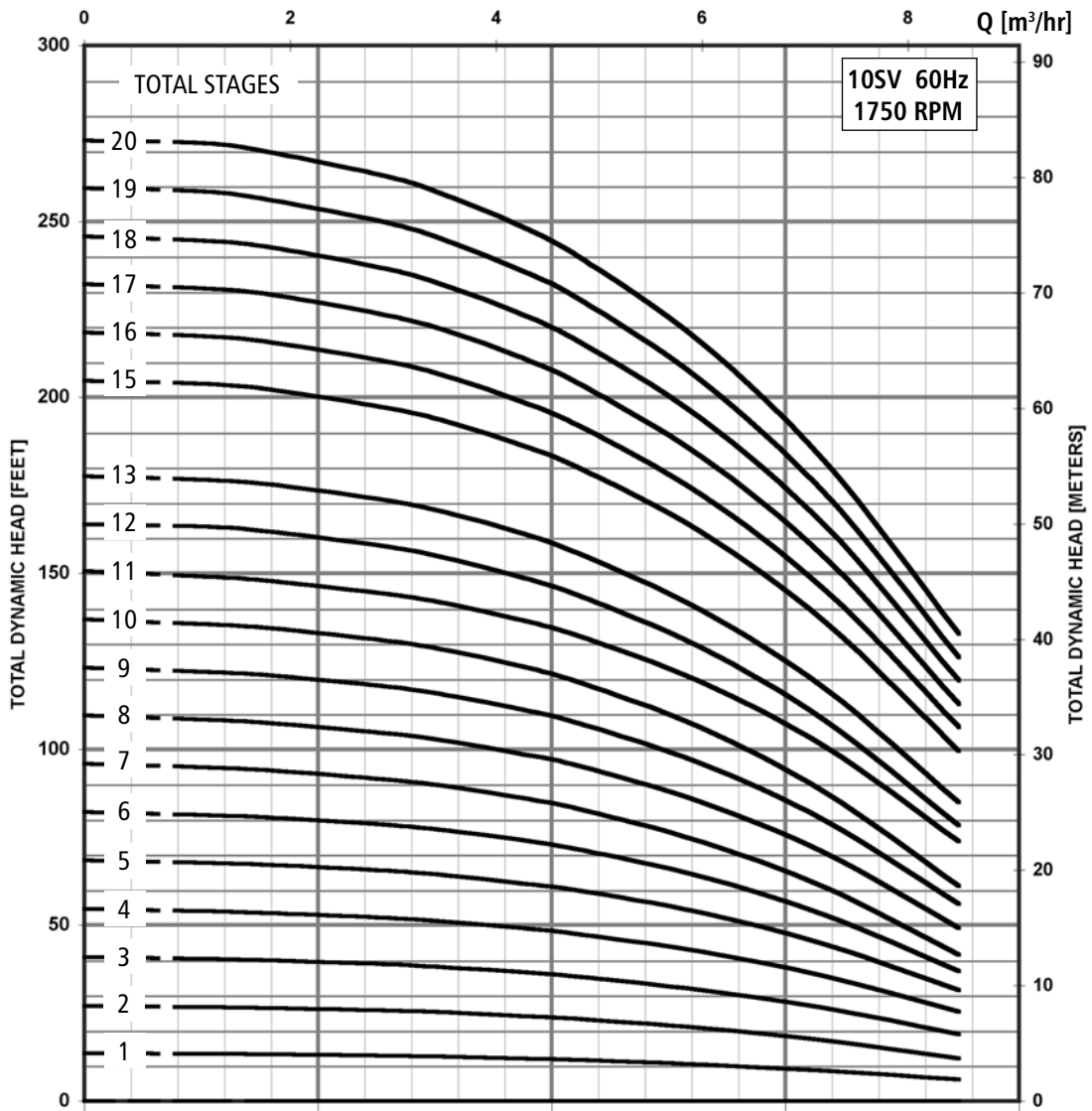
Dimensions and Weights
10SV Series 1750 RPM



All dimensions are in inches (mm).

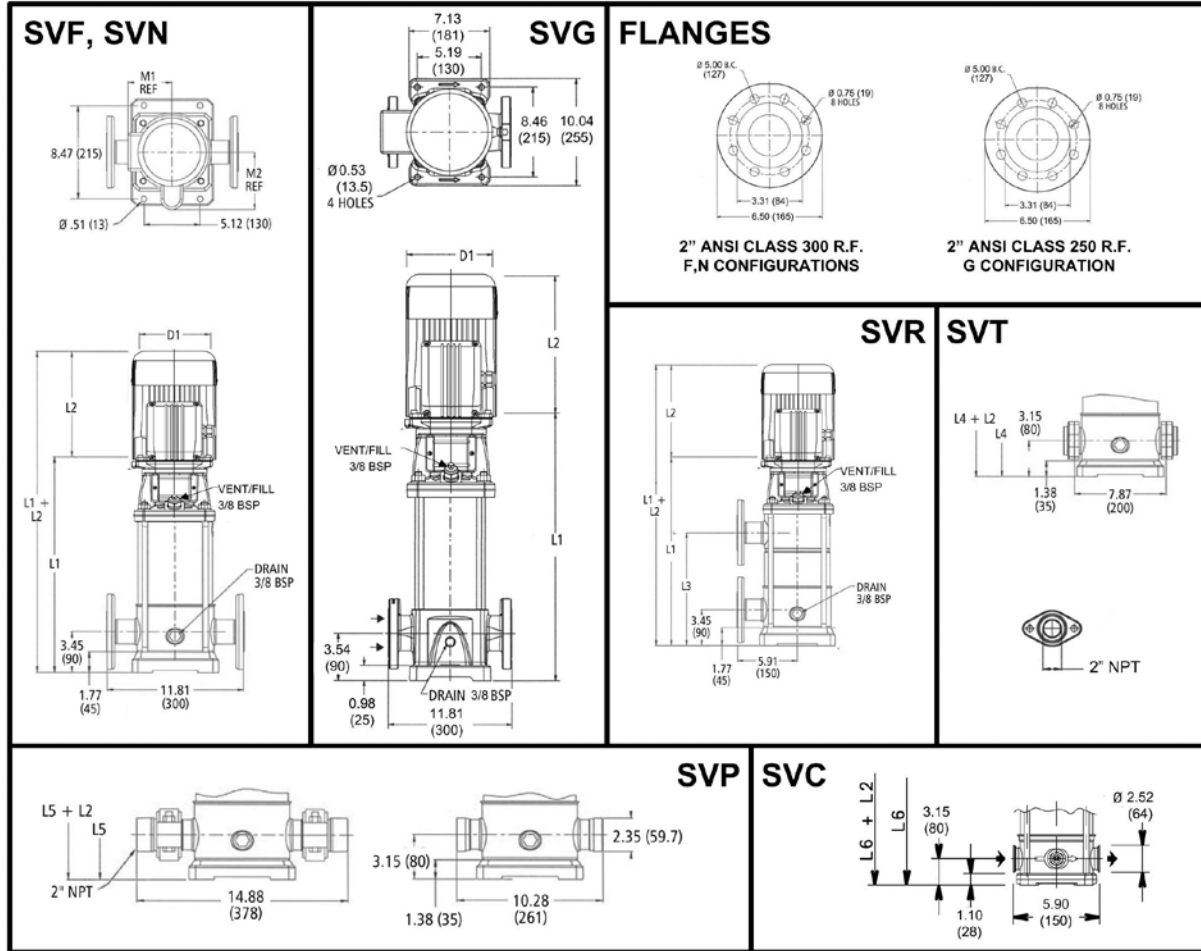
Pump Type	HP	Motor				Dimensions (in)											Weight (lbs.)											
		NEMA Frame				L2				L3			D1 (max.)				D2				Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L4	L5	L6	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	Pump	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	
10SV-01	0.5	56C	16.56	9.16	9.29	9.16	9.29	-	-	14.06	14.45	5.19	6.20	6.19	6.19	6.19	4.13	39	21	21	19	19	60	60	58	58		
10SV-02			16.56	9.16	9.29	9.16	9.29	-	-	14.06	14.45	5.19	6.20	6.19	6.19	6.19	4.13	41	21	21	19	19	62	62	60	60		
10SV-03			17.81	9.16	9.29	9.16	9.29	-	-	15.31	15.71	5.19	6.20	6.19	6.19	6.19	4.13	43	21	21	19	19	64	64	62	62		
10SV-04			19.07	9.16	9.29	9.16	9.29	-	-	16.97	17.36	5.19	6.20	6.19	6.19	6.19	4.13	46	21	21	19	19	67	67	65	65		
10SV-05	0.75	56C	20.33	9.16	9.29	9.16	9.29	18.23	10.20	18.23	18.62	5.19	6.20	6.19	6.19	4.13	48	21	21	19	19	69	69	67	67			
10SV-06			21.59	10.79	9.91	9.16	9.29	19.49	11.46	19.49	19.88	5.19	6.19	6.19	6.19	4.13	51	27	29	21	21	78	80	72	72			
10SV-07			22.84	10.79	9.91	9.16	9.29	21.14	12.72	21.14	21.54	5.19	6.19	6.19	6.19	4.13	54	27	29	21	21	81	83	75	75			
10SV-08			24.10	10.79	9.91	9.16	9.29	22.40	13.98	22.40	22.80	5.19	6.19	6.19	6.19	4.13	56	27	29	21	21	83	85	77	77			
10SV-09	1	56C	25.36	10.66	11.19	9.16	9.29	23.66	15.24	23.66	24.06	5.74	6.20	7.19	6.19	4.13	58	32	40	23	23	90	98	81	81			
10SV-10			26.62	10.66	11.19	9.16	9.29	24.92	16.50	24.92	25.31	5.74	6.20	7.19	6.19	4.13	60	32	40	23	23	92	100	83	83			
10SV-11			27.88	10.67	11.19	10.66	9.91	26.18	17.76	26.18	26.57	5.74	6.20	7.19	6.20	6.19	4.72	62	32	40	30	28	94	102	92	90		
10SV-12			28.35	10.67	11.19	10.66	9.91	27.44	19.02	27.44	27.83	5.74	6.20	7.19	6.20	6.19	4.72	72	32	40	30	28	104	112	102	100		
10SV-13	1.5	56C	29.04	10.67	11.19	10.66	9.91	31.34	20.28	31.34	31.73	5.74	6.20	7.19	6.20	6.19	4.72	69	32	40	30	28	101	109	99	97		
10SV-14			30.38	10.67	11.19	10.66	9.91	32.60	21.54	32.60	32.99	5.74	6.20	7.19	6.20	6.19	4.72	71	32	40	30	28	103	111	101	99		
10SV-15			31.56	11.18	12.06	11.16	10.79	33.86	22.80	-	34.25	5.74	7.19	7.19	6.20	6.19	4.72	73	43	51	32	33	116	124	105	106		
10SV-16			32.82	11.18	12.06	11.16	10.79	35.12	24.06	-	35.51	5.74	7.19	7.19	6.20	6.19	4.72	76	43	51	32	33	119	127	108	109		
10SV-17	2	56C	34.08	11.18	12.06	11.16	10.79	36.38	25.31	-	36.77	5.74	7.19	7.19	6.20	6.19	4.72	78	43	51	32	33	121	129	110	111		
10SV-18			35.34	11.18	12.06	11.16	10.79	37.64	26.57	-	38.03	5.74	7.19	7.19	6.20	6.19	4.72	80	43	51	32	33	123	131	112	113		
10SV-19			36.68	11.18	12.06	11.16	10.79	38.90	27.83	-	39.29	5.74	7.19	7.19	6.20	6.19	4.72	82	43	51	32	33	125	133	114	115		
10SV-20			3	36.66	11.57	13.44	11.18	11.16	40.16	29.09	-	40.55	5.75	6.50	7.19	7.16	7.19	5.51	79	49	64	41	44	128	143	120	123	

10SV Curve 1750 RPM



MINIMUM FLOW RATE: 5 GPM [1.4 m³/hr]

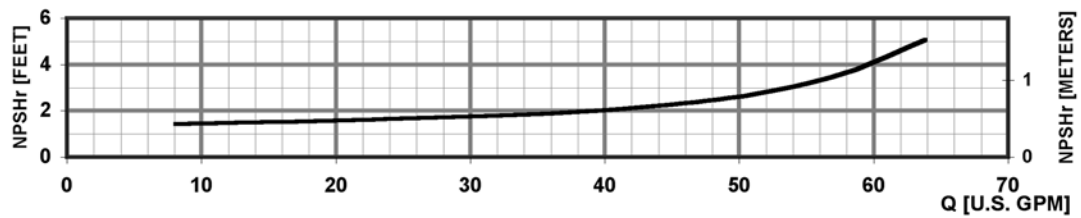
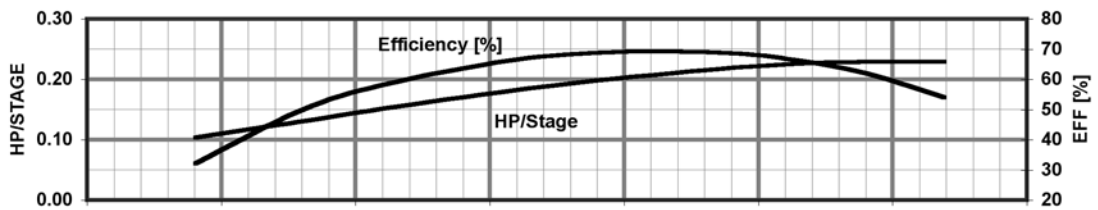
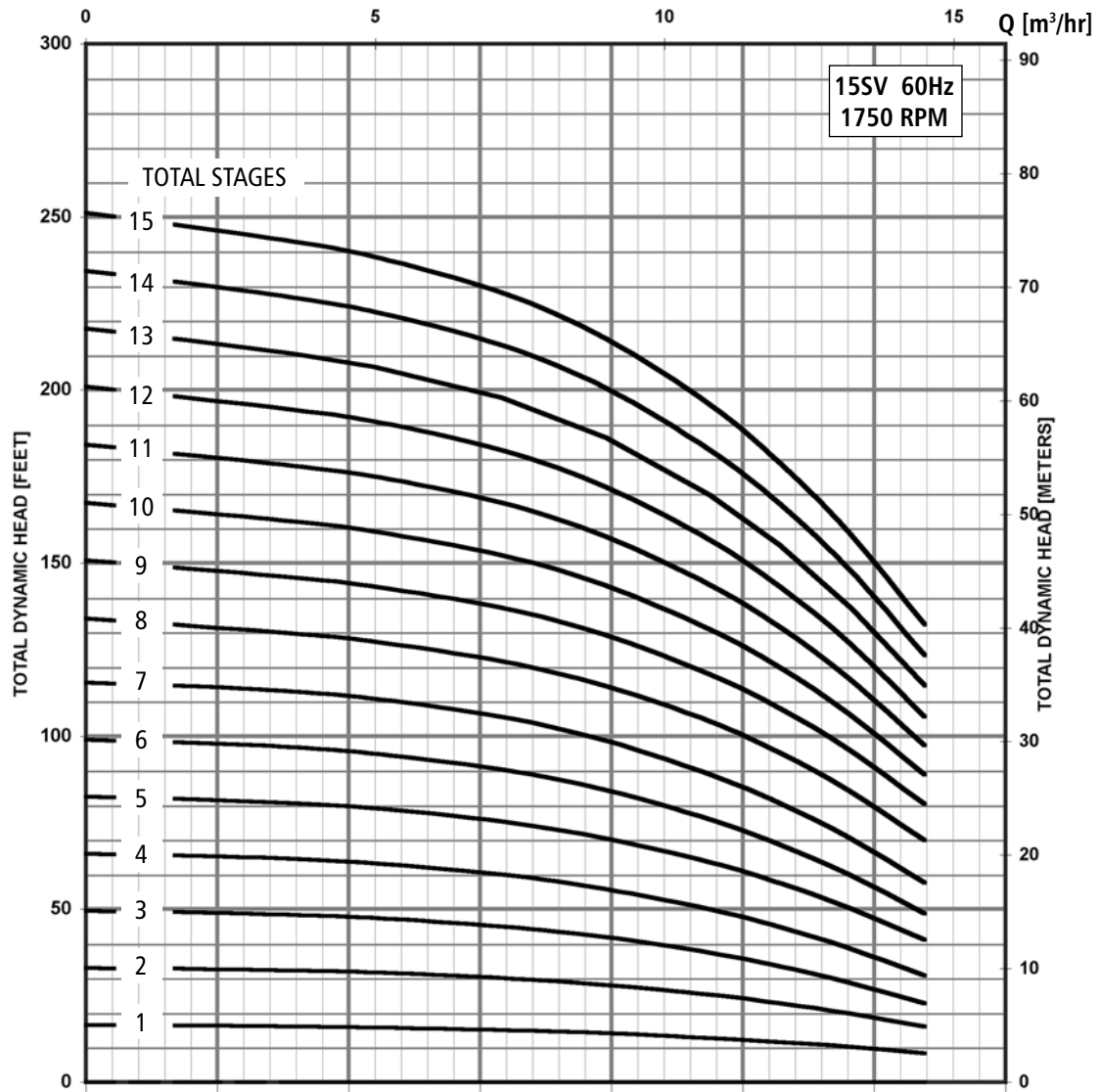
Dimensions and Weights
15SV Series 1750 RPM



All dimensions are in inches (mm).

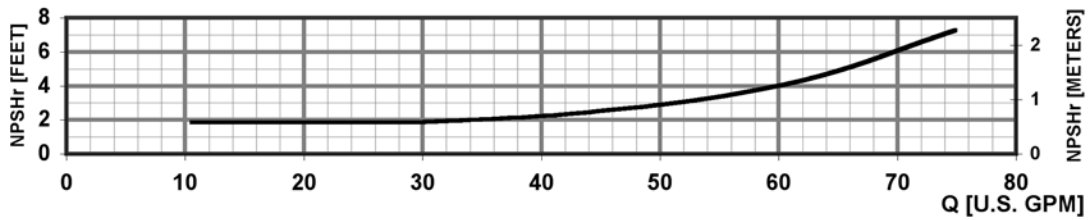
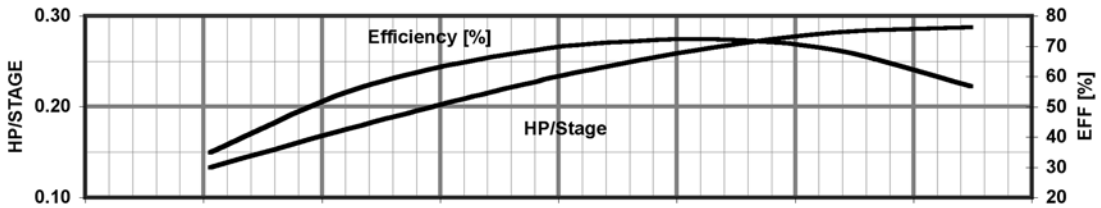
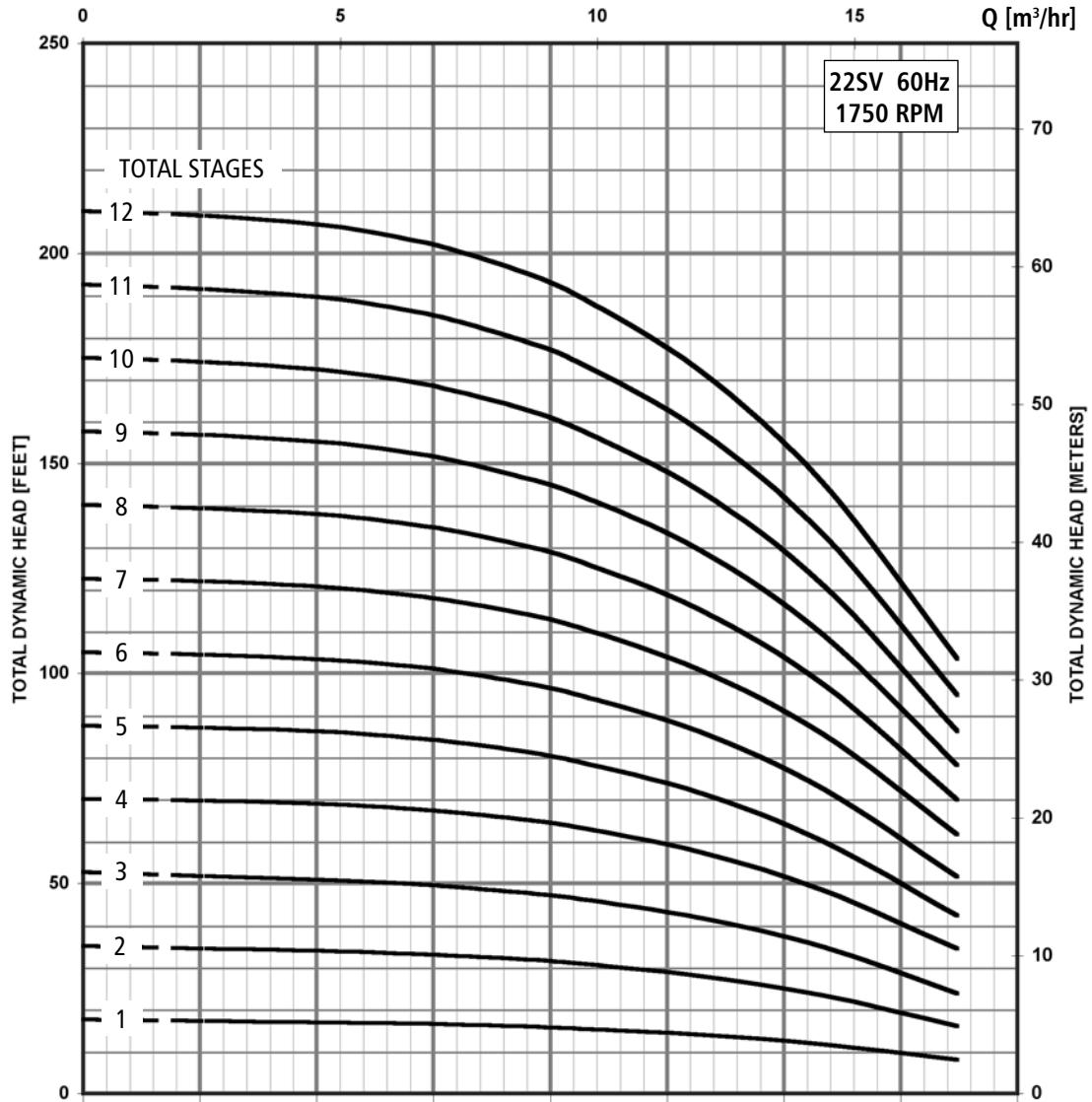
Pump Type	HP	Motor				Dimensions (in)											Weight (lbs.)													
		NEMA Frame				L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor					
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø						TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø			TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	
15SV-01	0.5	56C					18.21	9.16	9.29	9.16	9.29	-	-	15.71	15.71	5.19	6.20	6.19	6.19	6.19	4.13	41	21	21	19	19	62	62	60	60
15SV-02			18.20	9.16	9.29	9.16	9.29	-	-	16.10	16.10	5.19	6.20	6.19	6.19	6.19	4.13	44	21	21	19	19	65	65	63	63				
15SV-03	0.75		20.09	10.79	9.91	9.16	9.29	-	-	18.39	18.39	5.19	6.19	6.19	6.19	4.13	48	27	29	21	21	75	77	69	69					
15SV-04			21.98	10.66	11.19	9.16	9.29	20.28	11.85	20.28	20.28	5.74	6.20	7.19	6.19	6.19	4.13	51	32	40	23	23	83	91	74	74				
15SV-05	1		23.87	10.66	11.19	9.16	9.29	22.17	13.74	22.17	22.17	5.74	6.20	7.19	6.19	6.19	4.13	54	32	40	23	23	86	94	77	77				
15SV-06			24.39	10.67	11.19	10.66	9.91	26.69	15.63	26.69	26.69	5.74	6.20	7.19	6.20	6.19	4.72	58	32	40	30	28	90	98	88	86				
15SV-07	1.5		26.28	10.67	11.19	10.66	9.91	28.58	17.52	28.58	28.58	5.74	6.20	7.19	6.20	6.19	4.72	62	32	40	30	28	94	102	92	90				
15SV-08			28.17	11.18	12.06	11.16	10.79	30.47	19.41	30.47	30.47	5.74	7.19	7.19	6.20	6.19	4.72	65	43	51	32	33	108	116	97	98				
15SV-09	2		30.06	11.18	12.06	11.16	10.79	32.36	21.30	32.36	32.36	5.74	7.19	7.19	6.20	6.19	4.72	68	43	51	32	33	111	119	100	101				
15SV-10			33.13	11.57	13.44	11.18	11.16	35.43	23.19	35.43	35.43	5.75	6.50	7.19	7.16	7.19	5.51	78	49	64	41	44	127	142	119	122				
15SV-11	3		35.02	11.57	13.44	11.18	11.16	37.32	25.08	-	37.32	5.75	6.50	7.19	7.16	7.19	5.51	76	49	64	41	44	125	140	117	120				
15SV-12			36.91	11.57	13.44	11.18	11.16	39.21	26.97	-	39.21	5.75	6.50	7.19	7.16	7.19	5.51	79	49	64	41	44	128	143	120	123				
15SV-13			38.80	11.57	13.44	11.18	11.16	41.10	28.86	-	41.10	5.75	6.50	7.19	7.16	7.19	5.51	82	49	64	41	44	131	146	123	126				
15SV-14			40.69	11.57	13.44	11.18	11.16	0.00	0.00	-	42.99	5.75	6.50	7.19	7.16	7.19	5.51	86	49	64	41	44	135	150	127	130				
15SV-15	5		184TC	182TC	184TC	42.58	11.57	13.44	11.18	11.16	44.88	32.64	-	44.88	6.87	8.88	8.86	9.02	8.86	5.51	89	81	92	62	69	170	181	151	158	

15SV Curve 1750 RPM



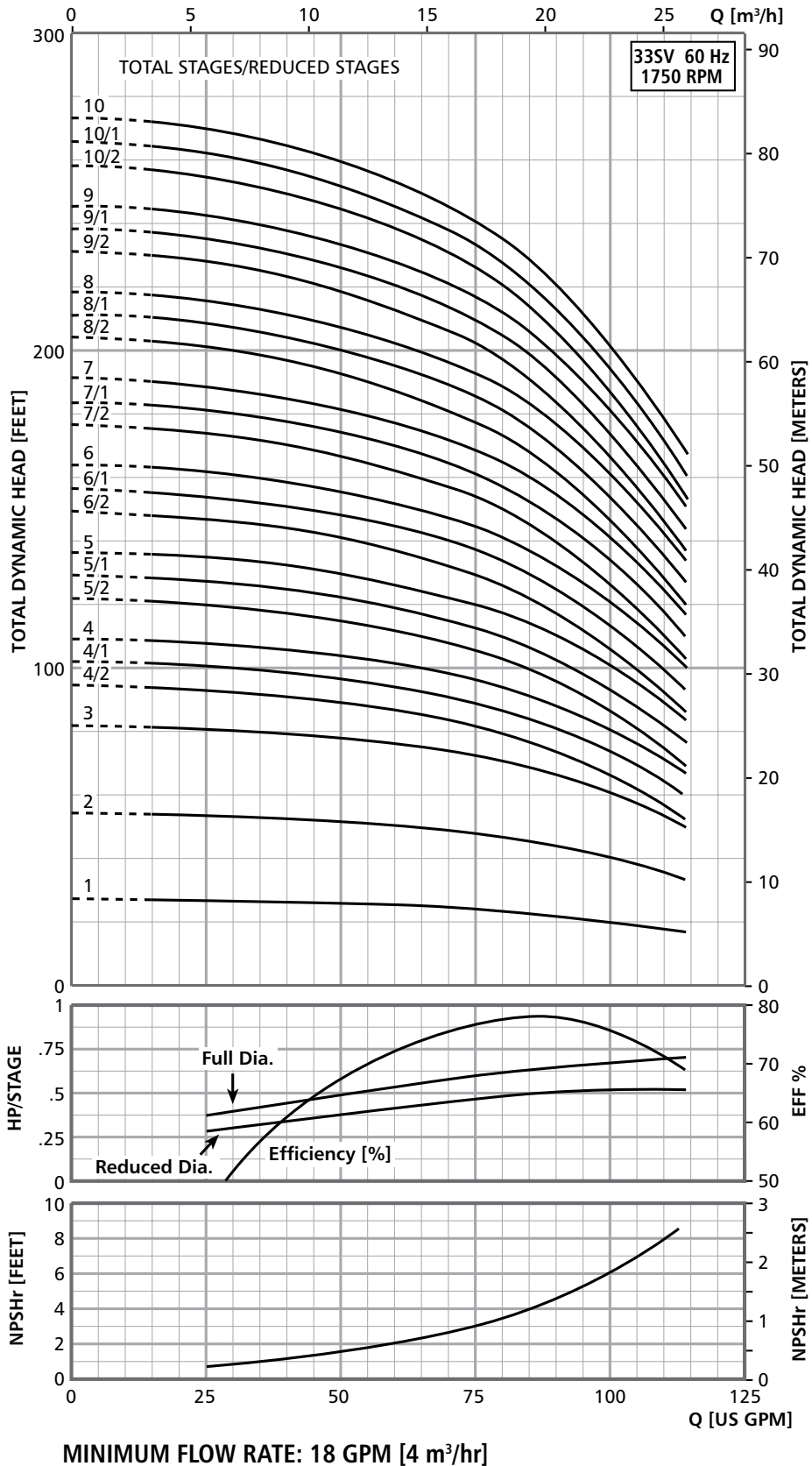
MINIMUM FLOW RATE: 8 GPM [2 m³/hr]

22SV Curve 1750 RPM

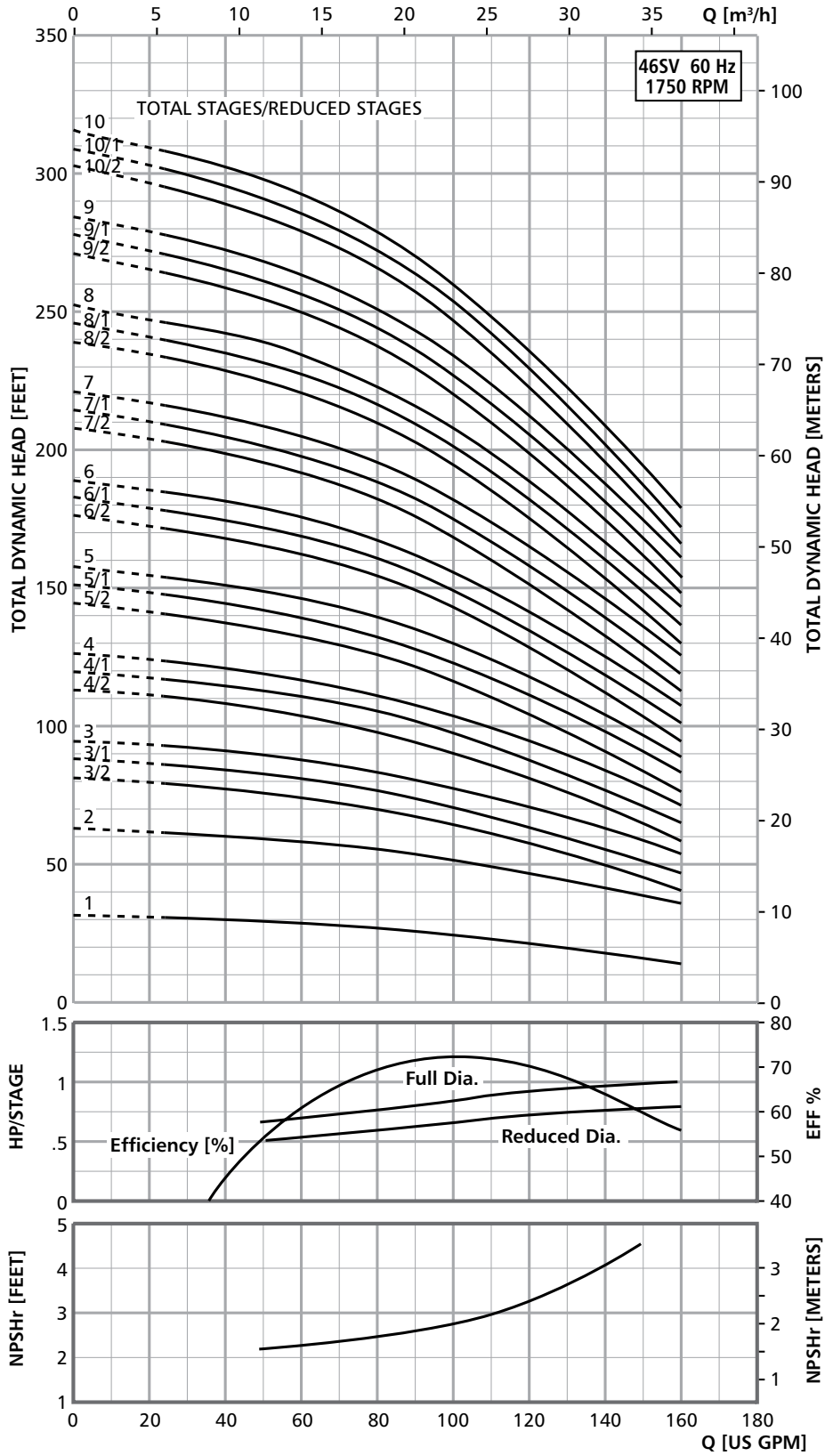


MINIMUM FLOW RATE: 11 GPM [2.5 m³/hr]

33SV Curve 1750 RPM



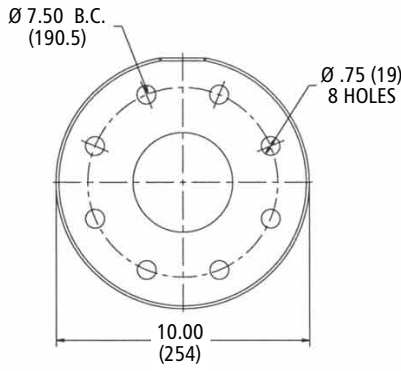
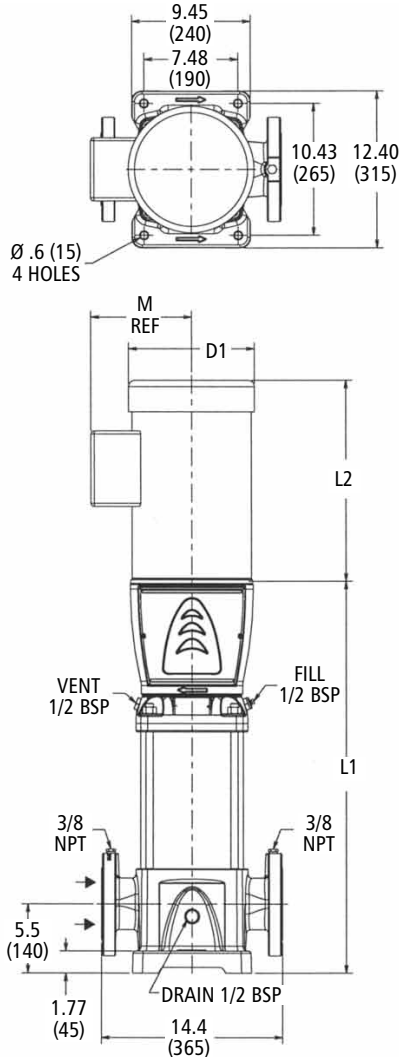
46SV Curve 1750 RPM



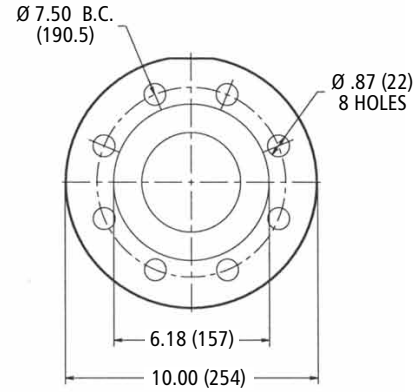
MINIMUM FLOW RATE: 20 GPM [5 m³/hr]

Dimensions and Weights

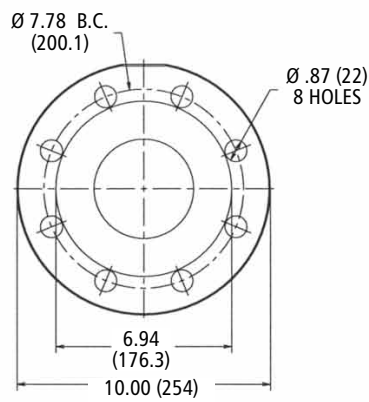
66SV Series 1750 RPM



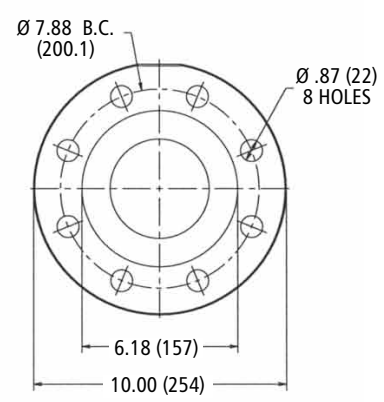
Cast Iron
4" Class 125 R.F.
(1 – 3 Stages)



316SS
4" Class 150 R.F.
(1 – 3 Stages)



Cast Iron
4" Class 250 R.F.
(4 – 6 Stages)

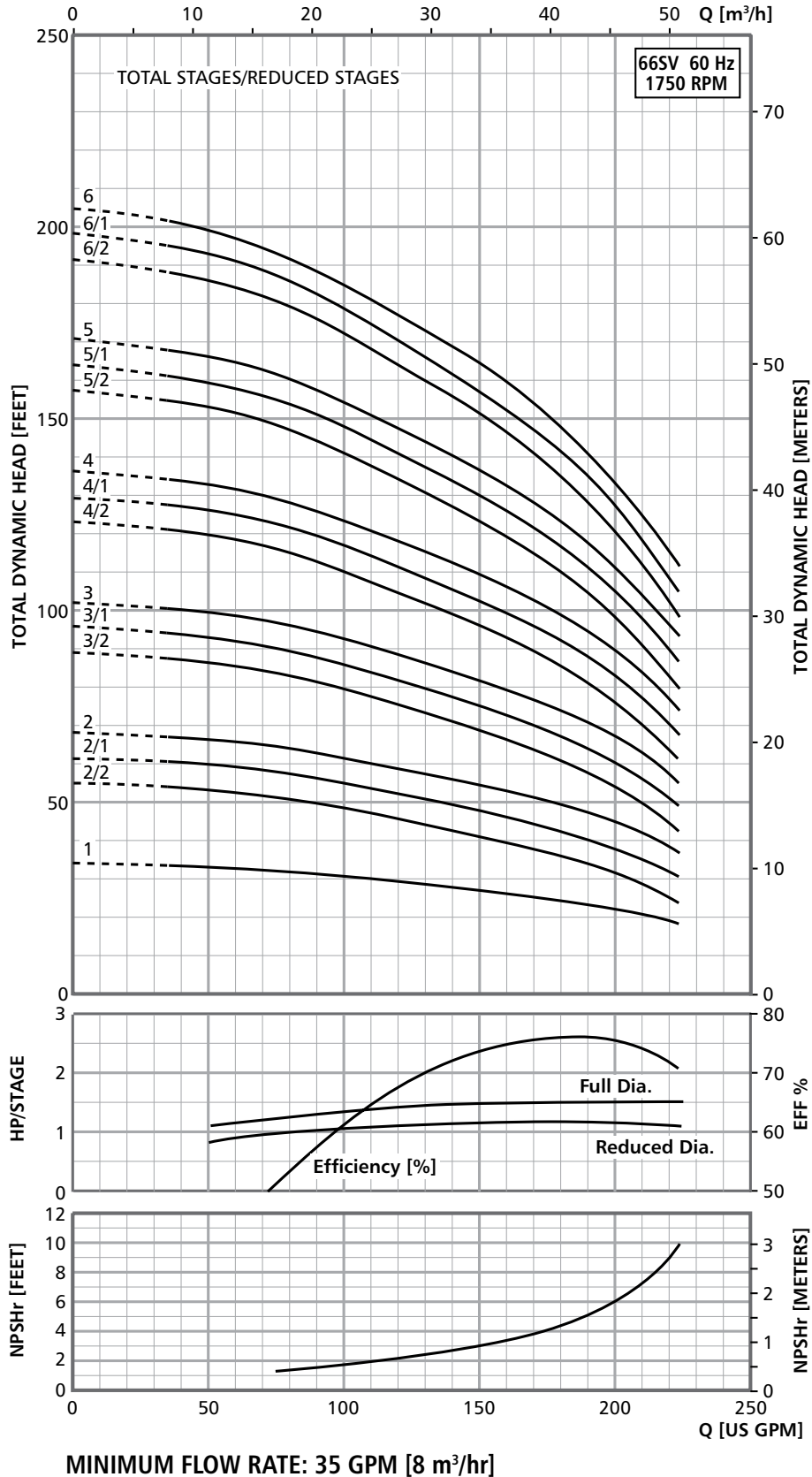


316SS
4" Class 300 R.F.
(4 – 6 Stages)

All dimensions are in inches (mm).

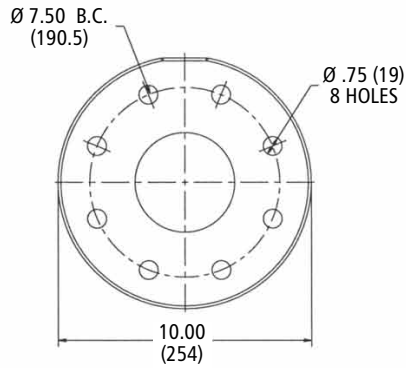
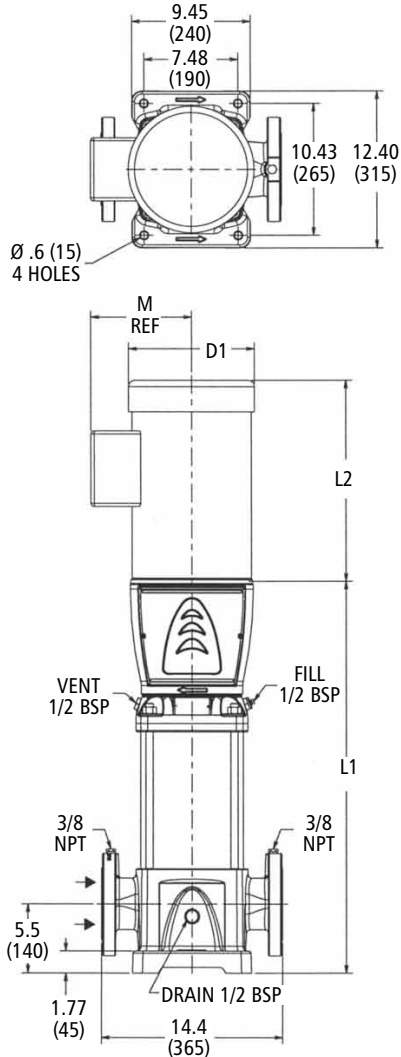
Pump Type Stages	Motor				Dimensions (in)										Weight (lbs.)													
	HP	NEMA Frame			L1	L2				M (Ref.)	D1 (max.)				D2	Pump Only	Motor				Pump/Motor							
		ODP 1Ø	TEFC 1Ø	ODP 3Ø		TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø		TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø			TEFC 3Ø	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC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

66SV Curve 1750 RPM

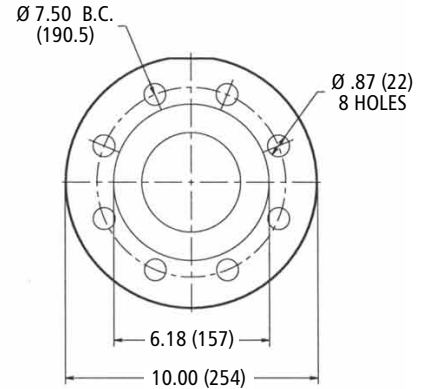


Dimensions and Weights

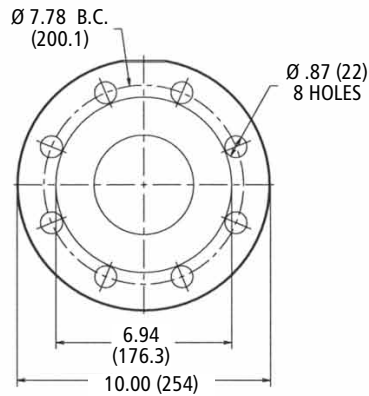
92SV Series 1750 RPM



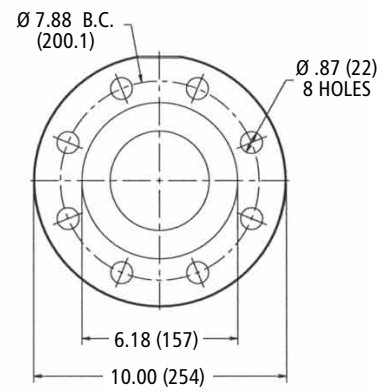
Cast Iron
4" Class 125 R.F.
(1 – 3 Stages)



316SS
4" Class 150 R.F.
(1 – 3 Stages)



Cast Iron
4" Class 250 R.F.
(4 – 6 Stages)

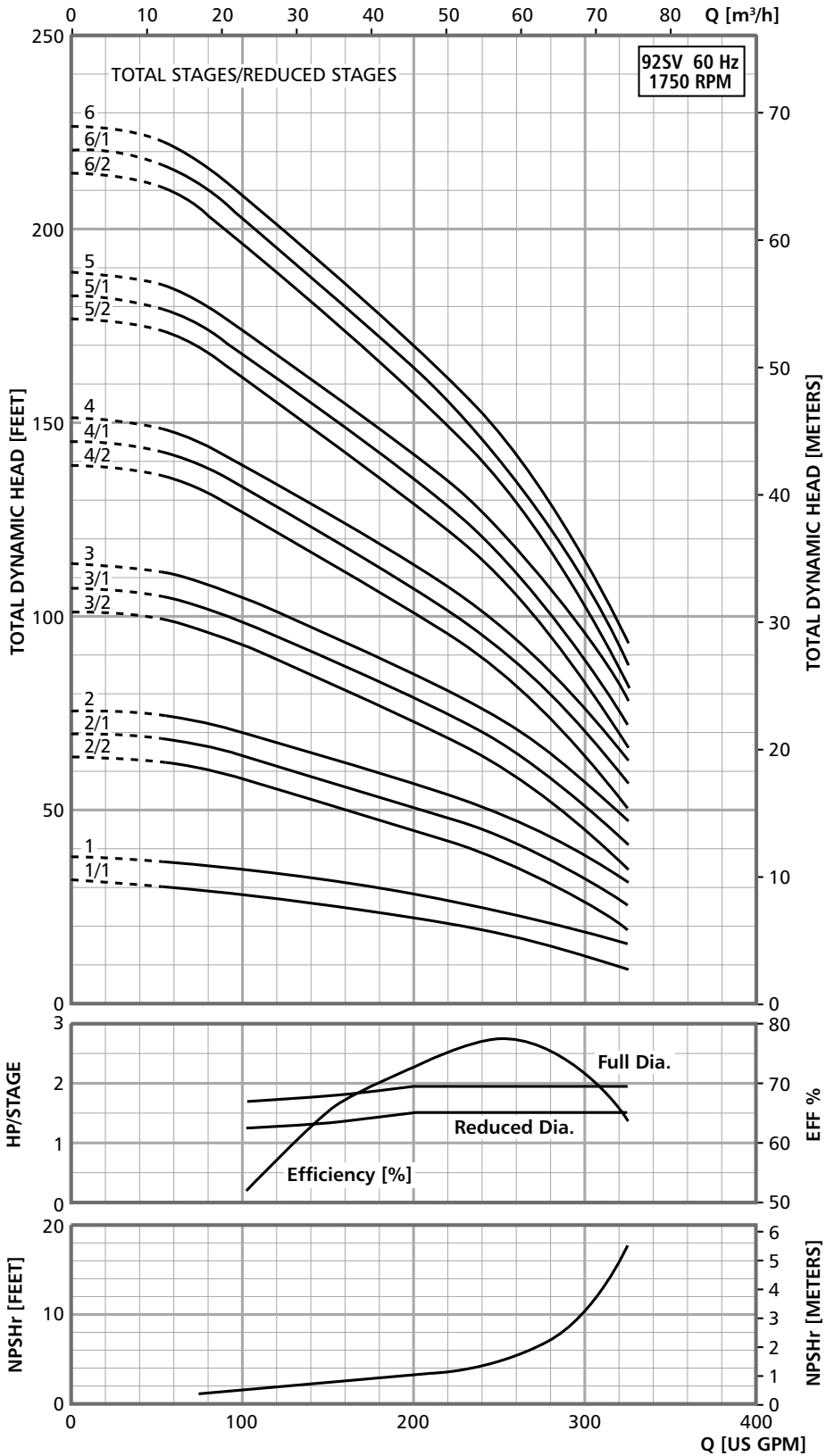


316SS
4" Class 300 R.F.
(4 – 6 Stages)

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	-	-	-	-	23.19	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	185	-	-	61	62	-	-	246	247	
92SV-2/2	3	-	-	-	26.75	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	61	62	-	-	257	258	
92SV-2/1	-	-	-	-	26.75	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	61	62	-	-	257	258	
92SV-2	-	-	-	-	26.75	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	196	-	-	68	75	-	-	264	271	
92SV-3/2	5	-	-	-	30.81	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	223	-	-	68	75	-	-	291	298	
92SV-3/1	-	-	-	-	30.81	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	223	-	-	68	75	-	-	291	298	
92SV-3	-	-	-	-	30.81	-	-	15.56	16.56	9.25	-	-	10.19	10.31	5.51	223	-	-	68	75	-	-	291	298	
92SV-4/2	7.5	-	-	-	34.38	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	234	-	-	122	125	-	-	356	359	
92SV-4/1	-	-	-	-	34.38	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	234	-	-	122	125	-	-	356	359	
92SV-4	-	-	-	-	34.38	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	234	-	-	122	125	-	-	356	359	
92SV-5/2	-	-	-	-	37.44	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	252	-	-	122	125	-	-	374	377	
92SV-5/1	-	-	-	-	37.44	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	252	-	-	125	129	-	-	377	381	
92SV-5	-	-	-	-	37.44	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	252	-	-	125	129	-	-	377	381	
92SV-6/2	10	-	-	-	40.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	266	-	-	125	129	-	-	391	395	
92SV-6/1	-	-	-	-	40.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	266	-	-	125	129	-	-	391	395	
92SV-6	-	-	-	-	40.94	-	-	15.56	15.50	8.06	-	-	10.19	10.25	5.51	266	-	-	125	129	-	-	391	395	

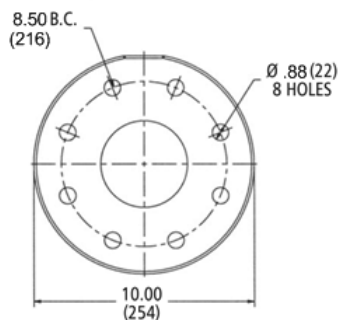
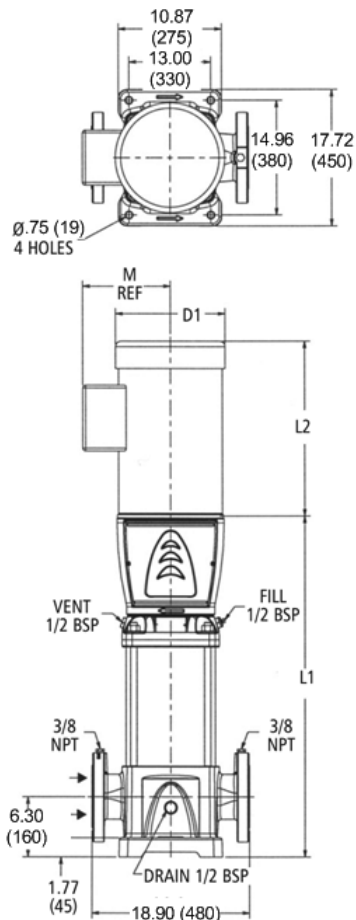
92SV Curve 1750 RPM



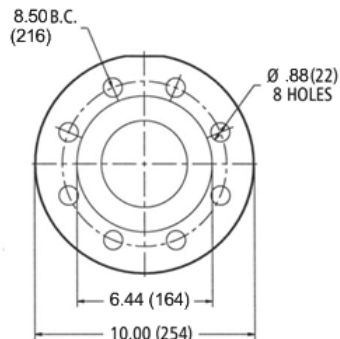
MINIMUM FLOW RATE: 50 GPM [11 m³/hr]

Dimensions and Weights

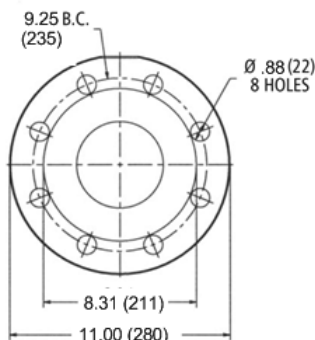
125SV Series 1750 RPM



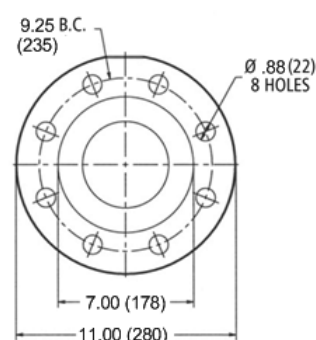
Cast Iron
5" Class 125 R.F.



316SS
5" Class 150 R.F.



Cast Iron
5" Class 250 R.F.

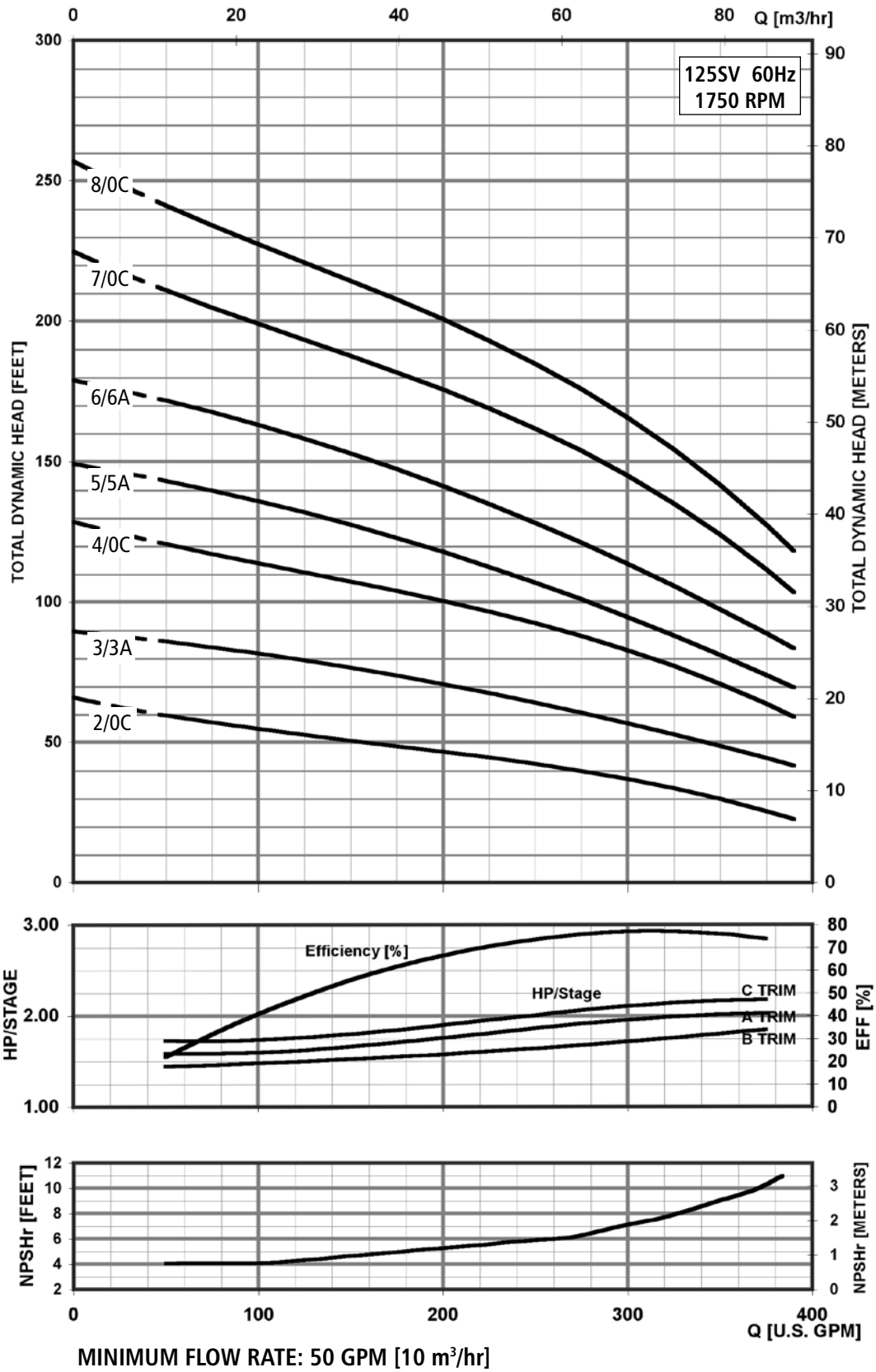


316SS
5" Class 300 R.F.

All dimensions are in inches (mm).

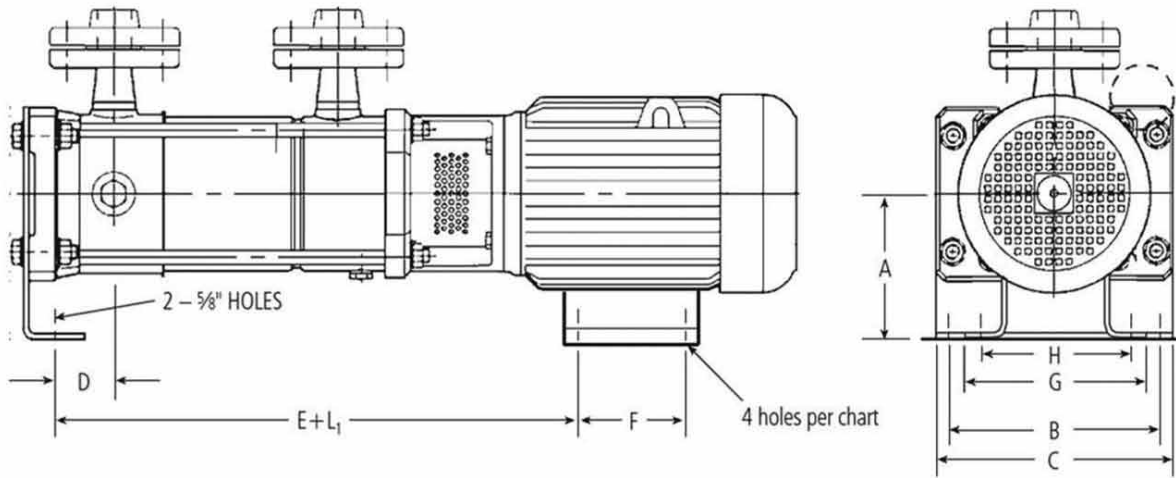
Pump Type	HP	Motor				Dimensions (in)											Weight (lbs.)												
		NEMA Frame				L1	L2				L3	L4	L5	L6	M (Ref.)	D1 (max.)				D2	Pump	Motor				Pump/Motor			
		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø		ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø						1Ø	1Ø	3Ø	3Ø			1Ø	1Ø	3Ø	3Ø	1Ø	1Ø	3Ø	3Ø
125SV20C	5	184TC	184TC	182TC	184TC	27.3	13.93	15.43	12.55	13.93	-	-	-	-	6.87	8.88	8.86	9.02	8.86	5.51	264	81	92	62	69	-	-	326	333
125SV33A	5	184TC	184TC	182TC	184TC	27.3	13.93	15.43	12.55	13.93	-	-	-	-	6.87	8.88	8.86	9.02	8.86	5.51	264	81	92	62	69	-	-	326	333
125SV40C	7.5	213TC	213TC	184TC	184TC	34.6	13.88	15.53	13.93	15.43	-	-	-	-	8.05	8.89	10.62	8.88	8.86	5.51	291	100	120	75	85	-	-	366	376
125SV55A	10	215TC	215TC	213TC	215TC	40.5	16.63	16.68	15.55	15.51	-	-	-	-	8.77	10.62	10.18	10.18	10.28	5.51	328	132	145	107	122	-	-	435	450
125SV60A	10	215TC	215TC	213TC	215TC	40.5	16.63	16.68	15.55	15.51	-	-	-	-	8.77	10.62	10.18	10.18	10.28	5.51	328	132	145	107	122	-	-	435	450
125SV70C	15	-	-	215TC	254TC	40.5	-	-	15.55	16.57	-	-	-	-	9.22	-	-	10.18	10.28	5.51	330	-	-	125	195	-	-	455	525
125SV80C	15	-	-	215TC	254TC	40.5	-	-	15.55	16.57	-	-	-	-	9.22	-	-	10.18	10.28	5.51	330	-	-	125	195	-	-	455	525

125SV Curve 1750 RPM

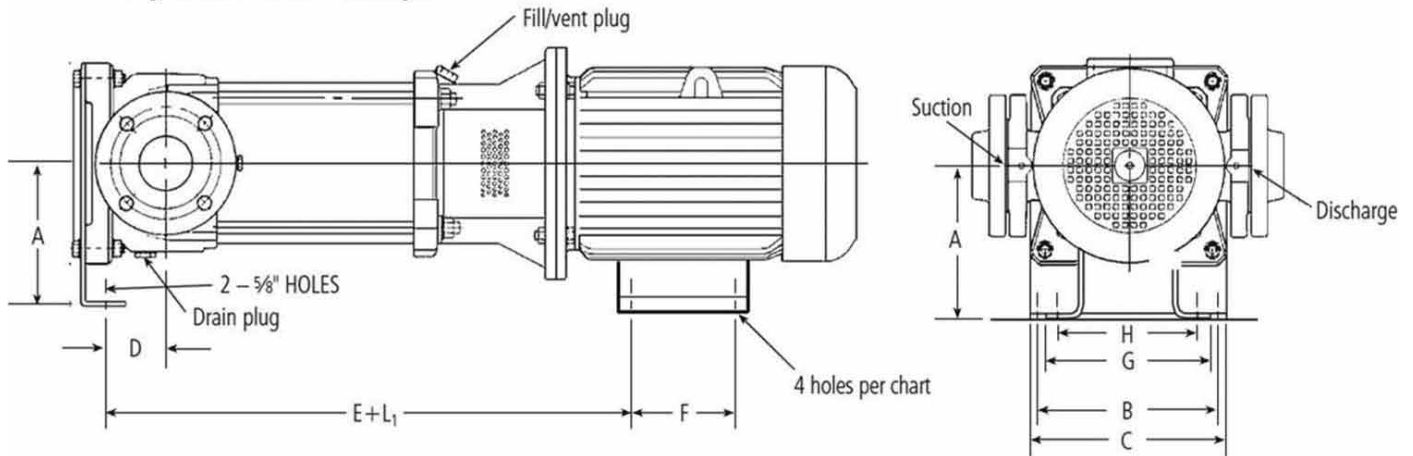


1SV – 22SV Horizontal Mounting Option

- 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.



Flanges can be rotated 90° left or right.

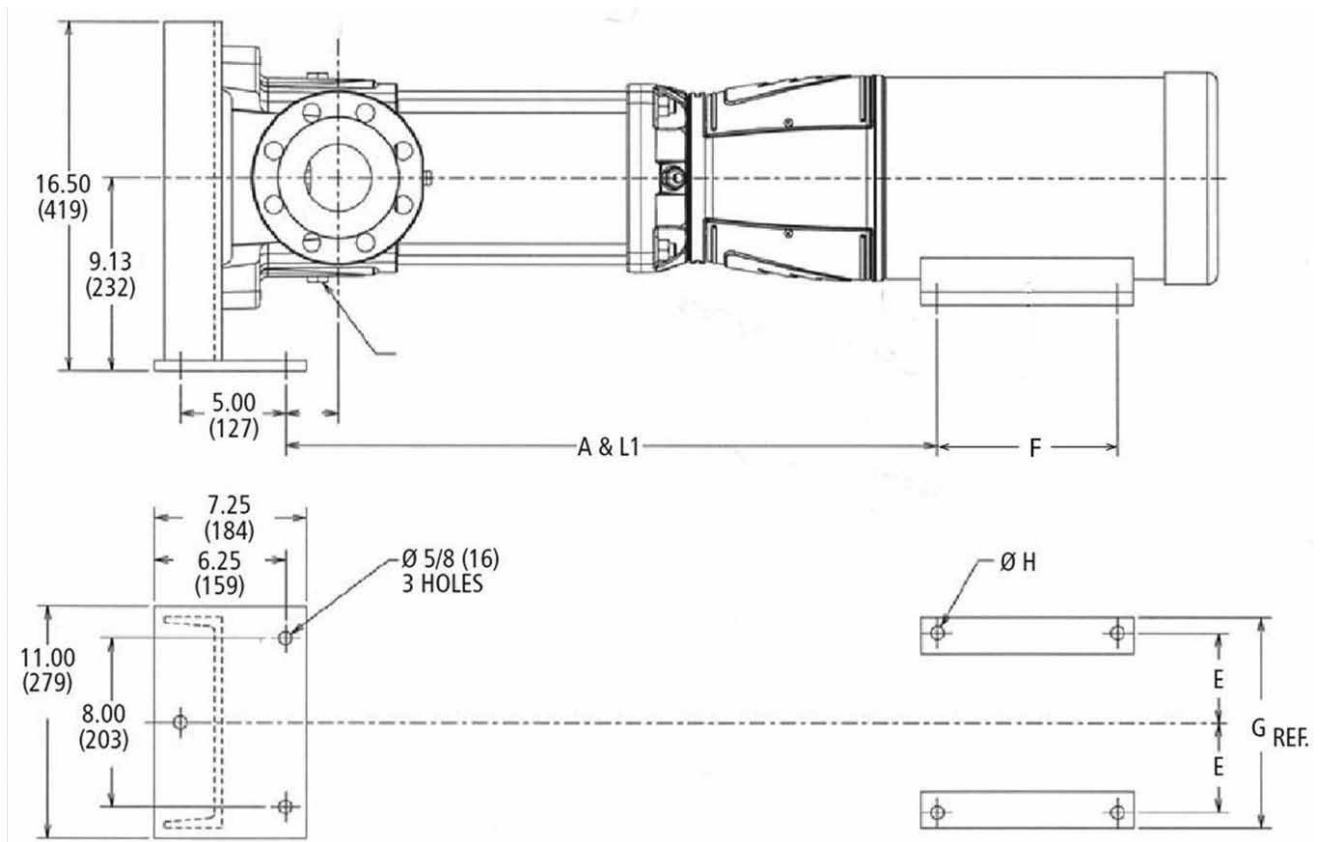


1SV – 22SV Horizontal Mounting Option

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

33SV – 92SV Horizontal Mounting Option

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



Series	Motor Frame	Flange	A	B	E	F	G	H - DIA.
33SV	182TC	G, N	0.5	1.13	3.5	2.25	8.63	13/32
	184TC					2.75		
	213TC		1.25		4.25	2.75	9.5	
	215TC					3.5		
	254TC		1.75		5	4.12	11.25	
	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							

Technical Data – Pump Hydraulics / Motor Sizing

1SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF				Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating	
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame								
			ODP	TEFC		ODP	TEFC							
30	3.45	3.00	56C	56C	5.00	184TC	184TC	860	372	25.7	40 Bar (580 psi)	Class 250 / 300		
28	3.22		56C	56C		184TC	184TC	810	351	24.2				
27	3.11		56C	56C		184TC	184TC	780	338	23.3				
26	2.99		56C	56C	3.00	56C	56C	750	325	22.4				
25	2.88		56C	56C		56C	56C	720	312	21.5				
24	2.76		56C	56C		56C	56C	695	301	20.7				
22	2.53		56C	56C		56C	56C	635	275	18.9				
20	2.30	2.00	56C	56C	2.00	56C	56C	580	251	17.3			25 Bar (362 psi)	Class 125 / 150
19	2.19		56C	56C		56C	56C	550	238	16.4				
17	1.96		56C	56C		56C	56C	485	210	14.5				
15	1.73	1.50	56C	56C	1.50	56C	56C	425	184	12.7				
13	1.50		56C	56C		56C	56C	375	162	11.2				
12	1.38		56C	56C		56C	56C	345	149	10.3				
11	1.27	1.00	56C	56C	1.00	56C	56C	315	136	9.4				
10	1.15		56C	56C		56C	56C	290	126	8.7				
9	1.04		56C	56C		56C	56C	255	110	7.6				
8	0.92	0.75	56C	56C	0.75	56C	56C	230	100	6.9				
7	0.81		56C	56C		56C	56C	200	87	6.0				
6	0.69		56C	56C		56C	56C	175	76	5.2				
5	0.58	0.50	56C	56C	0.50	56C	56C	145	63	4.3				
4	0.46		56C	56C		56C	56C	115	50	3.4				
3	0.35		56C	56C		56C	56C	85	37	2.5				
2	0.23		56C	56C		56C	56C	60	26	1.8				

3SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF				Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame							
			ODP	TEFC		ODP	TEFC						
30	6.24	7.50	213TC	213TC	7.50	213TC	213TC	1085	470	32.4	40 Bar (580 psi)	Class 250 / 300	
29	6.03		213TC	213TC		213TC	213TC	1050	455	31.3			
27	5.62		184TC	184TC		213TC	213TC	975	422	29.1			
26	5.41	5.00	184TC	184TC	5.00	213TC	213TC	940	407	28.0			
24	4.99		184TC	184TC		184TC	184TC	865	375	25.8			
22	4.58		184TC	184TC		184TC	184TC	795	344	23.7			
20	4.16		184TC	184TC		184TC	184TC	720	312	21.5			
18	3.74	3.00	184TC	184TC	3.00	184TC	184TC	645	279	19.2	25 Bar (362 psi)	Class 125 / 150	
16	3.33		56C	56C		56C	56C	575	249	17.2			
14	2.91		56C	56C		56C	56C	500	217	14.9			
13	2.70	2.00	56C	56C	2.00	56C	56C	465	201	13.9			
12	2.50		56C	56C		56C	56C	430	186	12.8			
11	2.29		56C	56C		56C	56C	395	171	11.8			
10	2.08	1.50	56C	56C	1.50	56C	56C	360	156	10.7			
9	1.87		56C	56C		56C	56C	320	139	9.5			
8	1.66		56C	56C		56C	56C	285	123	8.5			
7	1.46	1.00	56C	56C	1.00	56C	56C	250	108	7.5			
6	1.25		56C	56C		56C	56C	215	93	6.4			
5	1.04		56C	56C		56C	56C	180	78	5.4			
4	0.83	0.75	56C	56C	0.75	56C	56C	145	63	4.3			
3	0.62		56C	56C		56C	56C	105	45	3.1			
2	0.42		56C	56C		56C	56C	70	30	2.1			

Technical Data – Pump Hydraulics / Motor Sizing

5SV 3500 RPM

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

10SV 3500 RPM

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

Technical Data – Pump Hydraulics / Motor Sizing

15SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF				Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame							
			ODP	TEFC		ODP	TEFC						
15	28.50	25.00	254TC	284TC	30.00	284TC	286TC	1060	459	31.6	40 Bar (580 psi)	Class 250 / 300	
14	26.60		254TC	284TC		284TC	286TC	990	429	29.5			
13	24.70		254TC	284TC		25.00	254TC	284TC	915	396			27.3
12	22.80	254TC	256TC	254TC	284TC		850	368	25.4				
11	20.90	20.00	254TC	256TC	20.00	254TC	284TC	780	338	23.3	25 Bar (362 psi)		Class 125 / 150
10	19.00		254TC	256TC		254TC	256TC	705	305	21.0			
9	17.10	15.00	215TC	254TC	15.00	254TC	256TC	635	275	18.9			
8	15.20		215TC	254TC		254TC	256TC	565	245	16.9			
7	13.30		215TC	254TC		215TC	254TC	485	210	14.5			
6	11.40	10.00	215TC	215TC	10.00	215TC	254TC	420	182	12.5			
5	9.50		215TC	215TC		215TC	215TC	345	149	10.3			
4	7.60	7.50	213TC	213TC	7.50	215TC	215TC	275	119	8.2			
3	5.70		184TC	184TC		213TC	213TC	210	91	6.3			
2	3.80	5.00	184TC	184TC	5.00	184TC	184TC	140	61	4.2			
1	1.90		2.00	56C		56C	2.00	56C	56C	70	30	2.1	

22SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF				Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame							
			ODP	TEFC		ODP	TEFC						
12	28.92	25.00	-	-	30.00	284TC	286TC	880	381	26.3	40 Bar (580 psi)	Class 250 / 300	
11	26.51		254TC	284TC		284TC	286TC	810	351	24.2			
10	24.10		254TC	284TC		25.00	254TC	284TC	735	318			21.9
9	21.69	254TC	256TC	254TC	284TC		660	286	19.7				
8	19.28	20.00	254TC	256TC	20.00	254TC	256TC	585	253	17.5			
7	16.87		215TC	254TC		254TC	256TC	515	223	15.4			
6	14.46	15.00	215TC	254TC	15.00	215TC	254TC	440	191	13.1	25 Bar (362 psi)		Class 125 / 150
5	12.05		215TC	254TC		215TC	254TC	365	158	10.9			
4	9.64	10.00	215TC	215TC	10.00	215TC	215TC	295	128	8.8			
3	7.23	7.50	213TC	213TC	7.50	213TC	213TC	220	95	6.6			
2	4.82	5.00	184TC	184TC	5.00	184TC	184TC	245	106	7.3			
1	2.41	3.00	56C	56C	3.00	56C	56C	70	30	2.1			

Technical Data – Pump Hydraulics / Motor Sizing

33SV 3500 RPM

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

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

Technical Data – Pump Hydraulics / Motor Sizing

46SV 3500 RPM

# of Impellers / # reduced Diameter	Maximum HP Draw	Motor HP for use with 1.15 SF Motor	Motor HP for use with Hydrovar (1.0 SF)	Shutoff TDH (Feet)	Shutoff TDH (Bar)	Casing / Sleeve Pressure rating (Standard Assy.)	Stages requiring Thrust Balancing Piston	Pump Flange Rating			
10/2	77.8	75	75	1210	36.1	40 Bar (580 PSI)	Thrust Piston Required	Class 250 / 300			
9	73.2			1137	33.9						
9/1	71.5			1111	33.2						
9/2	69.7			1085	32.4						
8	65	60	60	1010	30.2						
8/1	63.3			984	29.4						
8/2	61.6			959	28.6						
7	56.9	50	50	884	26.4				25 Bar (362 PSI) ①		Class 125 / 150
7/1	55.2			858	25.6						
7/2	53.4			832	24.8						
6	48.8			758	22.6						
6/1	47.1	40	40	732	21.9						
6/2	45.3			706	21.1						
5	40.7			632	18.9						
5/1	38.9	30	30	605	18.1						
5/2	37.2			580	17.3						
4	32.5			505	15.1						
4/1	30.8	25	25	479	14.3						
4/2	29			453	13.5						
3	24.4	20	20	379	11.3						
3/1	22.7			353	10.5						
3/2	20.9			327	9.8						
2	16.3	15	15	253	7.6						
2/1	14/5			226	6.7						
2/2	12.8			200	6.0						
1	8.5			10	10	127	3.8				
1/1	6.7	7.5	7.5	102	3.0						

66SV 3500 RPM

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

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

Technical Data – Pump Hydraulics / Motor Sizing

92SV 3500 RPM

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

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

125SV 3500 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF		Motor Selection 1.0 SF		Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating		
		Rated HP	NEMA Motor Frame		Rated HP						NEMA Motor Frame	
			ODP	TEFC							ODP	TEFC
5/0C	82.32	75.00	364TSC	365TSC	Contact Factory		643	278	19.2	25 Ba (362 psi)	Class 250 / 300	
5/5B	67.84	60.00	324TSC	326TSC	75.00	364TSC 365TSC	555	240	16.6			
4/3B	57.35	50.00	324TSC	326TSC	60.00	324TSC 326TSC	461	200	13.8			
3/3A	45.60	40.00	286TC	286TC	50.00	324TSC 326TSC	358	155	10.7			
2/0C	34.79	30.00	284TC	286TC	40.00	286TC 286TC	263	114	7.8			
1/0C	17.40	15.00	215TC	254TC	20.00	254TC 256TC	131	57	3.9			

Technical Data – Pump Hydraulics / Motor Sizing

1SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF				Motor Selection 1.0 SF				Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame								
			ODP	TEFC		ODP	TEFC							
30	0.44	0.50	56C	56C	0.50	56C	56C	210	91	6.3	25 Bar (362 psi)	Class 125 / 150		
28	0.41		56C	56C		56C	56C	196	85	5.8				
27	0.40		56C	56C		56C	56C	189	82	5.6				
26	0.38		56C	56C		56C	56C	181	78	5.4				
25	0.37		56C	56C		56C	56C	175	76	5.2				
24	0.36		56C	56C		56C	56C	168	73	5.0				
22	0.33		56C	56C		56C	56C	155	67	4.6				
20	0.30		56C	56C		56C	56C	141	61	4.2				
19	0.28		56C	56C		56C	56C	134	58	4.0				
17	0.25		56C	56C		56C	56C	120	52	3.6				
15	0.22		56C	56C		56C	56C	107	46	3.2				
13	0.19		56C	56C		56C	56C	93	40	2.8				
12	0.18		56C	56C		56C	56C	86	37	2.6				
11	0.16		56C	56C		56C	56C	79	34	2.4				
10	0.15		56C	56C		56C	56C	72	31	2.1				
9	0.13		56C	56C		56C	56C	65	28	1.9				
8	0.12		56C	56C		56C	56C	58	25	1.7				
7	0.10		56C	56C		56C	56C	50	22	1.5				
6	0.09		56C	56C		56C	56C	43	19	1.3				
5	0.07		56C	56C		56C	56C	36	16	1.1				
4	0.06	56C	56C	56C	56C	29	13	0.9						
3	0.04	56C	56C	56C	56C	22	10	0.7						
2	0.03	56C	56C	56C	56C	15	6	0.4						

3SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF				Motor Selection 1.0 SF				Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame								
			ODP	TEFC		ODP	TEFC							
30	0.73	0.75	56C	56C	0.75	56C	56C	267	116	8.0	25 Bar (362 psi)	Class 125 / 150		
29	0.71		56C	56C		56C	56C	257	111	7.7				
27	0.66		56C	56C		56C	56C	240	104	7.2				
26	0.63		56C	56C		56C	56C	231	100	6.9				
24	0.59		56C	56C		56C	56C	213	92	6.4				
22	0.54	56C	56C	56C	56C	194	84	5.8						
20	0.49	56C	56C	56C	56C	167	72	5.0						
18	0.44	56C	56C	56C	56C	156	68	4.7						
16	0.39	56C	56C	56C	56C	141	61	4.2						
14	0.34	56C	56C	56C	56C	124	54	3.7						
13	0.32	0.50	56C	56C	0.50	56C	56C	115	50	3.4				
12	0.29		56C	56C		56C	56C	105	45	3.1				
11	0.27		56C	56C		56C	56C	97	42	2.9				
10	0.24		56C	56C		56C	56C	89	39	2.7				
9	0.22		56C	56C		56C	56C	80	35	2.4				
8	0.20		56C	56C		56C	56C	71	31	2.1				
7	0.17		56C	56C		56C	56C	63	27	1.9				
6	0.15		56C	56C		56C	56C	54	23	1.6				
5	0.12		56C	56C		56C	56C	45	19	1.3				
4	0.10		56C	56C		56C	56C	36	16	1.1				
3	0.07	56C	56C	56C	56C	28	12	0.8						
2	0.05	56C	56C	56C	56C	19	8	0.6						

Technical Data – Pump Hydraulics / Motor Sizing

5SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF				Motor Selection 1.0 SF				Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame								
			ODP	TEFC		ODP	TEFC							
27	1.02	1.00	56C	56C	1.50	56C	56C	239	104	7.1	25 Bar (362 psi)	Class 125 / 150		
26	0.98		56C	56C	1.00	56C	56C	230	100	6.9				
25	0.94		56C	56C		56C	56C	220	95	6.6				
23	0.87		56C	56C		56C	56C	203	88	6.1				
21	0.79	.75	56C	56C	0.75	56C	56C	186	81	5.6				
20	0.75		56C	56C		56C	56C	177	77	5.3				
18	0.68		56C	56C		56C	56C	159	69	4.7				
17	0.64		56C	56C		56C	56C	150	65	4.5				
16	0.60	0.50	56C	56C	0.50	56C	56C	142	61	4.2				
15	0.57		56C	56C		56C	56C	133	58	4.0				
14	0.53		56C	56C		56C	56C	124	54	3.7				
13	0.49		56C	56C		56C	56C	114	49	3.4				
12	0.45		56C	56C		56C	56C	106	46	3.2				
11	0.41		56C	56C		56C	56C	97	42	2.9				
10	0.38		56C	56C		56C	56C	88	38	2.6				
9	0.34		56C	56C		56C	56C	79	34	2.4				
8	0.30		56C	56C		56C	56C	71	31	2.1				
7	0.26		56C	56C		56C	56C	62	27	1.9				
6	0.23		56C	56C		56C	56C	54	23	1.6				
5	0.19		56C	56C		56C	56C	45	19	1.3				
4	0.15	56C	56C	56C	56C	37	16	1.1						
3	0.11	56C	56C	56C	56C	28	12	0.8						
2	0.08	56C	56C	56C	56C	19	8	0.6						

10SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF				Motor Selection 1.0 SF				Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame								
			ODP	TEFC		ODP	TEFC							
20	2.34	3.00	56C	56C	3.00	56C	56C	286	124	8.5	25 Bar (362 psi)	Class 125 / 150		
19	2.22		56C	56C		56C	56C	272	118	8.1				
18	2.11		56C	56C		2.00	56C	56C	257	111			7.7	
17	1.99		56C	56C			56C	56C	243	105			7.3	
16	1.87	56C	56C	56C	56C		229	99	6.8					
15	1.76	2.00	56C	56C	2.00	56C	56C	214	93	6.4				
13	1.52		56C	56C		56C	56C	185	80	5.5				
12	1.40		56C	56C		56C	56C	170	74	5.1				
11	1.29		56C	56C		1.50	56C	56C	154	67			4.6	
10	1.17	56C	56C	56C	56C		141	61	4.2					
9	1.05	56C	56C	56C	56C		127	55	3.8					
8	0.94	1.00	56C	56C	1.00	56C	56C	113	49	3.4				
7	0.82		56C	56C		56C	56C	98	42	2.9				
6	0.70		56C	56C		0.75	56C	56C	85	37			2.5	
5	0.59		56C	56C			56C	56C	71	31			2.1	
4	0.47	56C	56C	0.50	56C		56C	57	25	1.7				
3	0.35	56C	56C		56C	56C	43	19	1.3					
2	0.23	56C	56C		56C	56C	29	13	0.9					
1	0.12	56C	56C		56C	56C	14	6	0.4					

Technical Data – Pump Hydraulics / Motor Sizing

15SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF				Motor Selection 1.0 SF				Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame								
			ODP	TEFC		ODP	TEFC							
15	3.56	5.00	184TC	184TC	5.00	184TC	184TC	263	114	7.8	25 Bar (362 psi)	Class 125 / 150		
14	3.32	3.00	56C	56C		184TC	184TC	245	106	7.3				
13	3.08		56C	56C		184TC	184TC	228	99	6.8				
12	2.84		56C	56C	3.00	56C	56C	210	91	6.3				
11	2.61		56C	56C		56C	56C	192	83	5.7				
10	2.37		56C	56C		56C	56C	175	76	5.2				
9	2.13		2.00	56C	56C	2.00	56C	56C	158	68			4.7	
8	1.90	56C		56C	56C		56C	140	61	4.2				
7	1.66	1.50	56C	56C	1.50	56C	56C	120	52	3.6				
6	1.42		56C	56C		56C	56C	103	45	3.1				
5	1.19	1.00	56C	56C	1.00	56C	56C	86	37	2.6				
4	0.95		56C	56C		56C	56C	68	29	2.0				
3	0.71	0.75	56C	56C	0.75	56C	56C	51	22	1.5				
2	0.47	0.50	56C	56C	0.50	56C	56C	35	15	1.0				
1	0.24		56C	56C		56C	56C	8	3	0.2				

22SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF				Motor Selection 1.0 SF				Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame								
			ODP	TEFC		ODP	TEFC							
12	3.58	5.00	184TC	184TC	5.00	184TC	184TC	220	95	6.6	25 Bar (362 psi)	Class 125 / 150		
11	3.28	3.00	56C	56C		184TC	184TC	202	87	6.0				
10	2.98		56C	56C	3.00	56C	56C	183	79	5.5				
9	2.68		56C	56C		56C	56C	165	71	4.9				
8	2.38		56C	56C		56C	56C	147	64	4.4				
7	2.09		2.00	56C	56C	2.00	56C	56C	129	56			3.8	
6	1.79			56C	56C		56C	56C	110	48			3.3	
5	1.49	1.50	56C	56C	1.50	56C	56C	91	39	2.7				
4	1.19		56C	56C		56C	56C	74	32	2.2				
3	0.89	0.75	56C	56C	1.00	56C	56C	55	24	1.6				
2	0.60	0.50	56C	56C	0.75	56C	56C	36	16	1.1				
1	0.30		56C	56C		0.50	56C	56C	19	8	0.6			

Technical Data – Pump Hydraulics / Motor Sizing

33SV 1750 RPM

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

Technical Data – Pump Hydraulics / Motor Sizing

46SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame							
			ODP	TEFC		ODP	TEFC						
10/2	10.0	10	215TC	215TC	10.00	213TC	215TC	298	129	9	25 Bar (362 psi)	Class 125 / 150	
9	9.3							280	121	8			
9/1	9.0							274	119	8			
9/2	8.8							268	116	8			
8	8.2	7.5	184TC	7.50	184TC	249	108	7					
8/1	8.0					242	105	7					
8/2	7.8					236	102	7					
7	7.2					217	94	6					
7/1	7.0					212	92	6					
7/2	6.8					206	89	6					
6	6.2					189	82	6					
6/1	6.0					182	79	5					
6/2	5.8					174	75	5					
5	5.2					5	56C	5.00	56C	156			
5/1	5.0	150	65	4									
5/2	4.7	144	62	4									
4	4.1	125	54	4									
4/1	3.8	118	51	4									
4/2	3.7	113	49	3									
3	3.1	3	56C	3.00	56C	93	40	3					
3/1	2.9					87	38	3					
3/2	2.6					79	34	2					
2	2.0					63	27	2					
2/1	1.8					55	24	2					
2/2	1.6					49	21	1					
1	1.0					31	13	1					

66SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame							
			ODP	TEFC		ODP	TEFC						
6	9.0	10.00	215TC	215TC	10.00	213TC	215TC	211	91	6	25 Bar (362 psi)	Class 125 / 150	
6/1	8.6							203	88	6			
6/2	8.3							197	85	6			
5	7.5	7.50	184TC	7.50	184TC	175	76	5					
5/1	7.1					168	73	5					
5/2	6.9					162	70	5					
4	6.0					140	61	4					
4/1	5.6					134	58	4					
4/2	5.4					127	55	4					
3	4.5	5.00	56C	5.00	56C	106	46	3					
3/1	4.1					98	42	3					
3/2	3.9					92	40	3					
2	3.0					70	30	2					
2/1	2.6	3.00	56C	3.00	56C	64	28	2					
2/2	2.4					57	25	2					
1	1.5					36	15	1					

Technical Data – Pump Hydraulics / Motor Sizing

92SV 1750 RPM

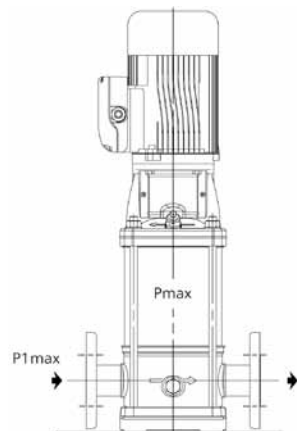
No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating	Stages Requiring Thrust Balancing Piston
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame							
			ODP	TEFC		ODP	TEFC						
5/1	9.7	10	215TC	215TC	10.00	213TC	215TC	184	80	5	25 Bar (362 psi)	Class 125 / 150	
5/2	9.2							178	77	5			
4	7.7	7.5	184TC	7.50	184TC	153	66	5					
4/1	7.6					146	63	4					
4/2	7.1					140	61	4					
3	5.8					114	49	3					
3/1	5.6					107	46	3					
3/2	5.1					102	44	3					
2	3.9	5	56C	5.00	56C	76	33	2					
2/1	3.6					69	30	2					
2/2	3.1	3	56C	3.00	56C	64	28	2					
1	1.9					37	16	1					
1/1	1.6					31	14	1					

125SV 1750 RPM

No. of Impellers	Maximum HP draw	Motor Selection using SF			Motor Selection 1.0 SF			Shutoff TDH (Feet)	Shutoff TDH (psi)	Shutoff TDH (Bar)	Casing/Sleeve Pressure Rating (standard assy.)	Pump Flange Rating
		Rated HP	NEMA Motor Frame		Rated HP	NEMA Motor Frame						
			ODP	TEFC		ODP	TEFC					
8/0C	16.47	15.00	215TC	254TC	20.00	254TC	256TC	257	111	7.7	25 Bar (362 psi)	Class 250 / 300
7/0C	14.22	15.00	215TC	254TC	15.00	215TC	254TC	225	97	6.7		
6/6A	11.4	10.00	213TC	215TC	15.00	215TC	254TC	179	78	5.3		
5/5A	9.5	10.00	213TC	215TC	10.00	213TC	215TC	150	65	4.5		
4/0C	8.23	7.50	184TC	184TC	10.00	213TC	215TC	128	55	3.8		
3/3A	5.70	5.00	182TC	184TC	7.50	184TC	184TC	89	39	2.7		
2/0C	4.36	5.00	182TC	184TC	5.00	182TC	184TC	66	29	2.0		

Maximum Inlet Pressure

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



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

Having the following meaning of the symbols:

p_{max} = Maximum pressure delivered by the pump

p_{1max} = Maximum inlet pressure

PN = Maximum operating pressure

Pump	Stages	P _{1max} (psig)	Pump	Stages	P _{1max} (psig)
1SV	2-5	145	33SV	1/1-2/2	45
	6-10	218		2/1-5/2	145
	11-30	PN-Pmax		5/1-7/2	218
3SV	2-3	145	46SV	7/1-10	PN-Pmax
	4-7	218		1/1-1	145
	8-30	PN-Pmax		2/2-2	218
5SV	2-3	145	66SV	3/2-4/1	290
	4-6	290		4-10/2	PN-Pmax
	7-27	PN-Pmax		1/1-3/2	72
10SV	1-2	145	92SV	3/1-4/1	145
	3-5	290		4-5/1	218
	6-20	PN-Pmax		5-6	PN-Pmax
15SV	1-2	145	125SV	1-1-2/2	72
	3	290		2/1-3/2	145
	4-15	PN-Pmax		3/1-3	218
22SV	1-2	145	4/2-5/1	PN-Pmax	
	3	290		1-2	290
	4-12	PN-Pmax	3-8	PN-Pmax	

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

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

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

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

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

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 Pv vapor pressure and the liquid's specific weight.

0.5 is the safety factor.

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

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

Water Temperature (°F)	68	104	140	176	194	230	248
Suction Loss (ft)	-0.7	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 – Compatibility Chart for Materials in Contact with Most Commonly Used Liquids

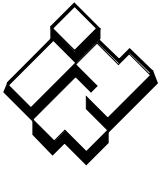
Liquid	Concentration (%)	Temperature Min/Max °F	Specific Weight (lb/in ³)	SV 2, 4, 8, 16		SV 33, 46, 66, 92		Recommended Seal	Elastomers
				304	316	Cl/316	316		
Water	100	23/248		•	•	•	•	Q;BEGG	E
Deionized, demineralized or distilled water	100	-13/230		•	•	•	•	Q;BEGG	E
Water and oil emulsion	any	23/194		•	•	•	•	Q;BVGG	V
Acetic acid (•)	80	14/158	.038	•	•	•	•	Q;BEGG	E
Citric acid	5	14/158	.056	•	•	•	•	Q;BEGG	E
Hydrochloric acid	2	23/77	.043		•		•	Q;Q;VGG	V
Phosphoric acid	10	23/86	.048		•		•	Q;BEGG	E
Nitric acid (•)	50	23/86	.053	•	•	•	•	Q;Q;VGG	V
Sulphuric acid (•)	2	14/77	.066		•		•	Q;BVGG	V
Tannic acid	20	32/122			•		•	Q;BEGG	E
Tartaric acid	50	14/77	.063	•	•	•	•	Q;Q;VGG	V
Uric acid	80	14/176	.068	•	•	•	•	Q;BEGG	E
Benzoic acid	70	32/158	.047	•	•	•	•	Q;BVGG	V
Boric acid	Saturated	14/194	.052	•	•	•	•	Q;Q;VGG	V
Formic acid (•)	5	5/77	.044	•	•	•	•	Q;BEGG	E
Ethyl alcohol (•)	100	23/104	.029	•	•	•	•	Q;BEGG	E
Methyl alcohol (•)	100	23/104	.029	•	•	•	•	Q;BEGG	E
Propyl alcohol (•)	100	23/176	.029	•	•	•	•	Q;BEGG	E
Butyl alcohol	100	23/176	.030	•	•	•	•	Q;BVGG	V
Denatured alcohol (•)	100	23/158	.030	•	•	•	•	Q;BEGG	E
Ammonia in water (•)	25	-4/122	.038	•	•	•	•	Q;BEGG	E
Chloroform		14/86	.053	•	•	•	•	Q;BVGG	V
Caustic soda	25	32/158	.077	•	•	•	•	Q;Q;EGG	E
Water, detergents, mineral oils mixture		23/176		•	•	•	•	Q;Q;VGG	V
Cleaning products		23/212		•	•	•	•	Q;Q;VGG	V
Diesel oil (•)	100	32/176	.033	•	•	•	•	Q;BVGG	V
Kerosene (•)	100	32/176		•	•	•	•	Q;BVGG	V
Fuel oil (•)		32/194	.027	•	•	•	•	Q;BVGG	V
Glycerine	100	68/194	.046	•	•	•	•	Q;BEGG	E
Sodium Hypochlorite	1	14/77			•		•	Q;Q;VGG	V
Phosphates/polyphosphates		23/194			•		•	Q;Q;VGG	V
Sodium nitrate	Saturated	14/176	.081	•	•	•	•	Q;BEGG	E
Cutting fluid	100	23/230	.033	•	•	•	•	Q;BVGG	V
Peanut oil (•)	100	23/230	.034	•	•	•	•	Q;BEGG	E
Colza oil (•)	100	23/230	.034	•	•	•	•	Q;BEGG	E
Linseed oil (•)	100	23/230	.034	•	•	•	•	Q;BEGG	E
Coconut oil (•)	100	-4/194	.033	•	•	•	•	Q;BEGG	E
Soybean oil (•)	100	32/194		•	•	•	•	Q;BEGG	E
Diathermic oil	100	23/230	.033	•	•	•	•	Q;BVGG	V
Hydraulic oil	100	23/230		•	•	•	•	Q;BVGG	V
Mineral oil	100	23/230	.034	•	•	•	•	Q;BVGG	V
Sodium sulfate	15	14/104	.094	•	•	•	•	Q;Q;EGG	E
Aluminum sulfate	30	23/122	.097		•		•	Q;Q;EGG	E
Ammonium sulfate	10	14/140	.064		•		•	Q;Q;EGG	E
Iron sulfate	10	23/86	.076		•		•	Q;BEGG	E
Copper sulfate	20	32/86	.082		•		•	Q;Q;VGG	V
Trichloroethylene		14/104	.053	•	•	•	•	Q;BVGG	V
Perchloroethylene		14/86	.057	•	•	•	•	Q;BVGG	V

Legend

- Q_i = 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



ITT

Commercial Water



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BeSV60 August, 2010

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 Printed on recycled paper.