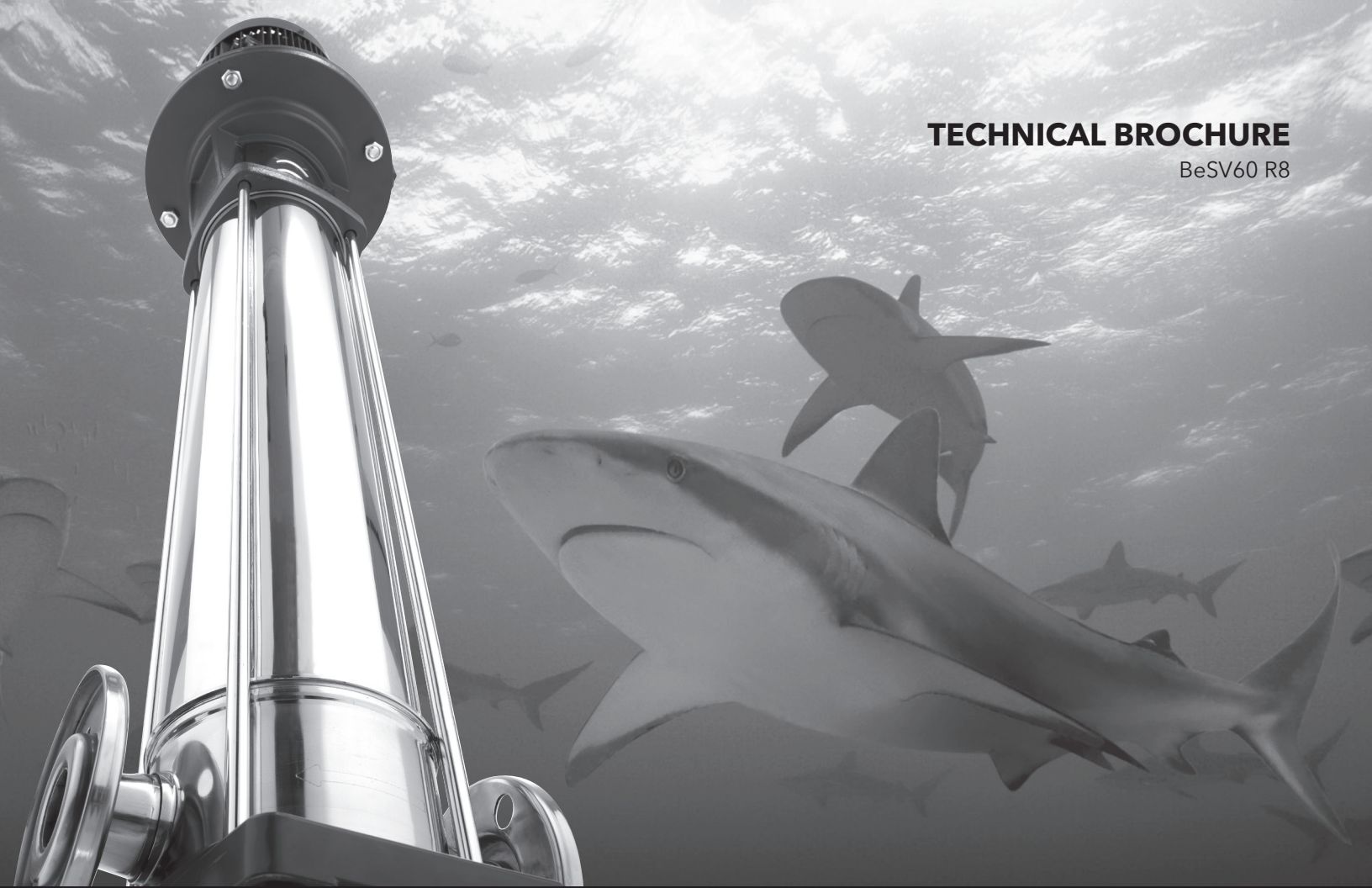




**TECHNICAL BROCHURE**

BeSV60 R8

# e-SV™ 60 Hz Technical Manual

E-SV SERIES VERTICAL MULTI-STAGE PUMPS

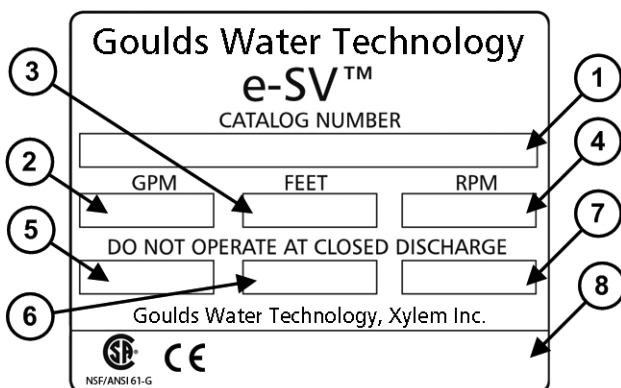
 **GOULDS**  
WATER TECHNOLOGY  
a **xylem** brand



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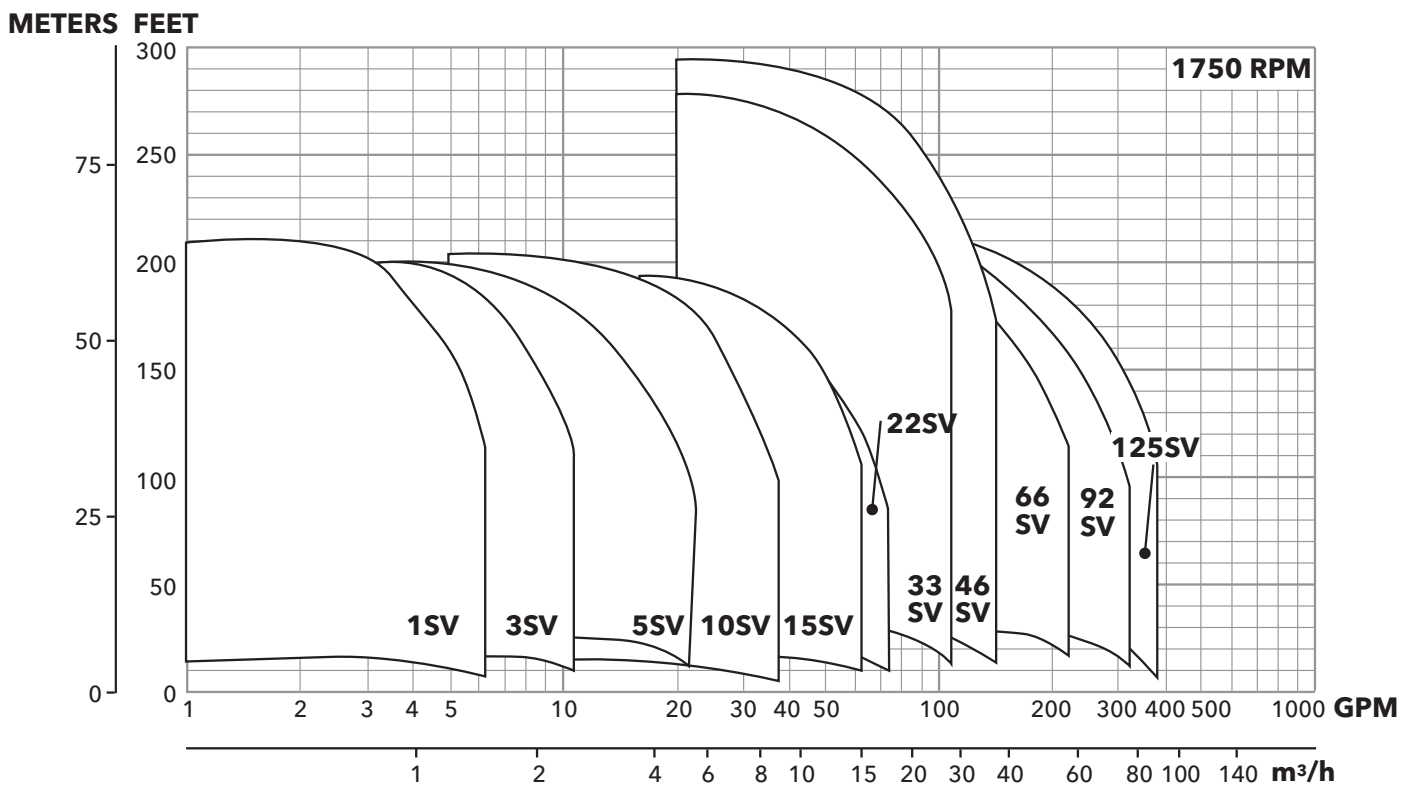
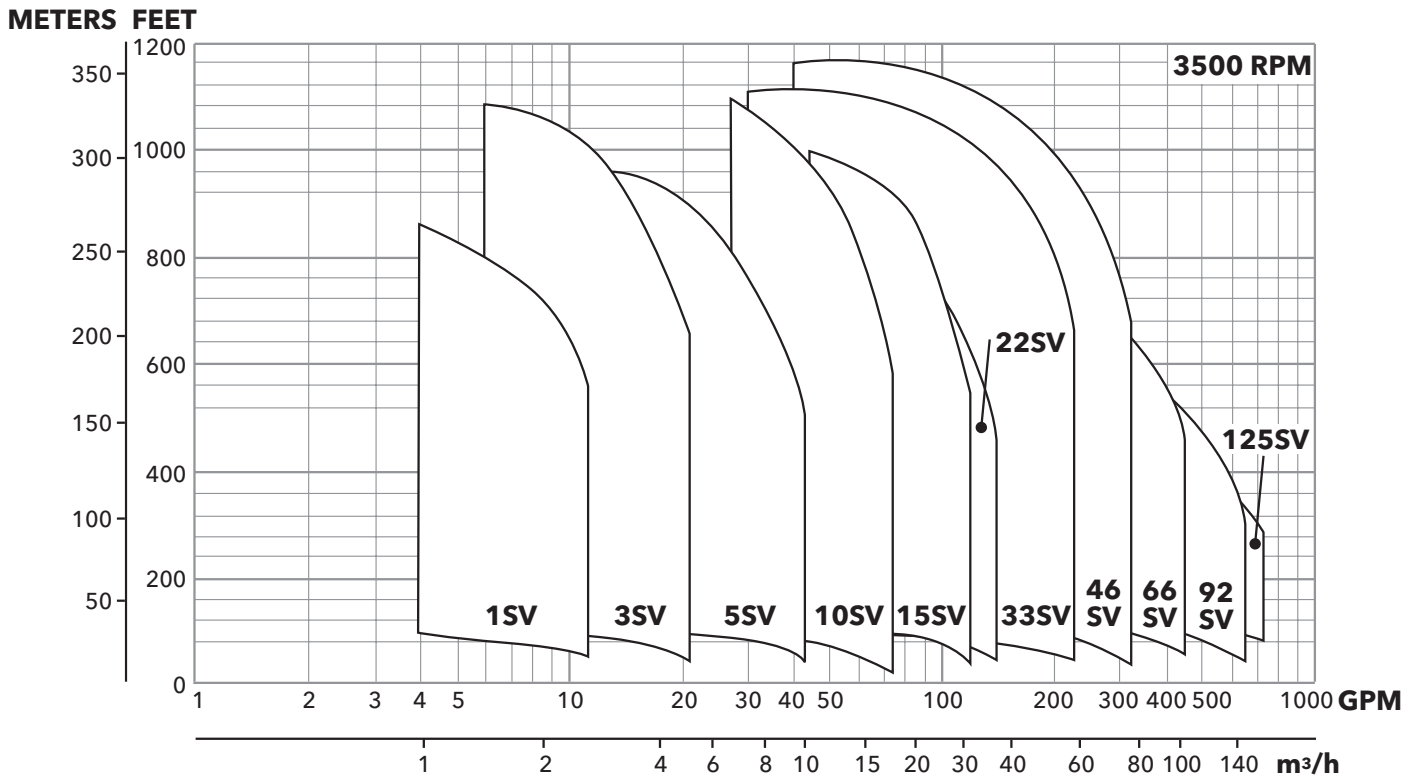
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### e-SV Rating Plate



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

### e-SV Coverage Curve



### e-SV General Market Specifications

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

#### Applications

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

#### Specifications

##### PUMP

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

The liquid end, located between the upper cover and the pump casing, is held in place by tie rods. The pump casing is available with different configurations and connection types.

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

##### MOTOR

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

\* Based on pump staging

### e-SV Characteristics

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

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

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

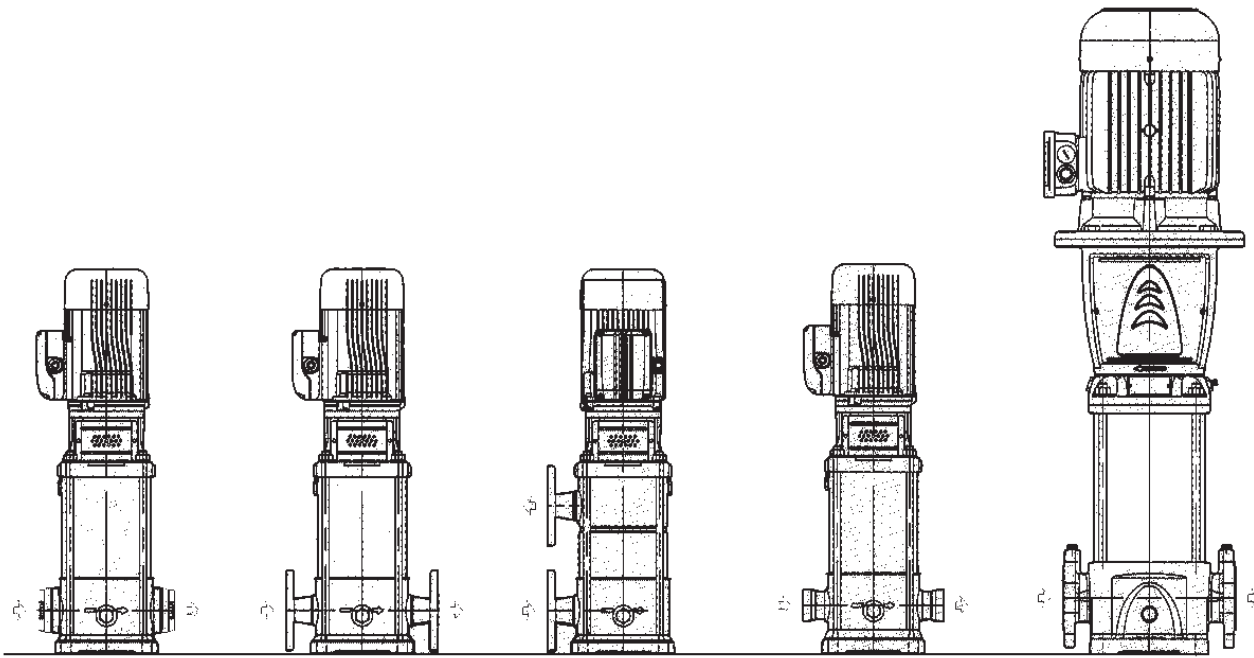
- Vertical multistage centrifugal pump with impellers, diffusers and outer sleeve made entirely of stainless steel, and with pump casing and motor adapter made of cast iron in the standard version
- Rotating components made entirely of AISI 316 stainless steel
- High heads and capacities five sizes: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

#### Optional Features

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

## Commercial Water

### General Characteristics - 2-pole



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

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

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

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

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

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

## Commercial Water

### 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

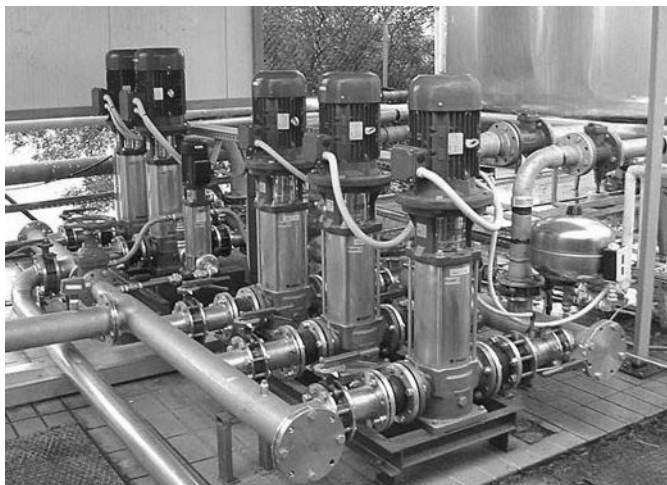
- Washing and cleaning plants (washing and degreasing of mechanical parts, car and truck wash tunnels, washing of electronic industry circuits)
- Commercial washers
- Fire fighting system pumps

#### 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



## Commercial Water

### e-SV Product Line

### Numbering System for 1 - 22SV Liquid End Only

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

Note: Not all combinations are possible.

#### Example Product Code

22 SV 0 2 F E 3 0

#### Special Configurations (optional Characters)

- A = Cooling Chamber only
- B = Cooling Chamber + Passivation
- C = Cooling Chamber + Low NPSH
- F = Destaged - 1 stage
- G = Destaged - 2 stage
- H = Horizontal mount only
- J = Horizontal mount + Passivation
- K = Horizontal mount + Low NPSH
- L = Horizontal mount + High Pressure
- N = Low NPSH only
- P = Passivation only
- S = Customized Configuration
- Z = High pressure only

#### Seal Material

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

#### Pole-Hz

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

#### Motor Frame (NEMA)

- A = 56C      D = 250TC
- B = 180TC    E = 280TC
- C = 210TC

#### Configuration

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

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

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

#### Product Line:

SV - Stainless Vertical

#### Nominal Flow:

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

### e-SV Product Line

### Numbering System for 33 - 125SV Liquid End Only

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

Note: Not all combinations are possible.

#### Example Product Code

125 SV 8 1 2 B F E 2 0

#### Special Configurations (optional Characters)

- H = Horizontal mount only
- J = Horizontal mount + Passivation
- K = Horizontal mount + Low NPSH (33, 46 and 66 only)
- L = Horizontal mount + High Pressure
- N = Low NPSH only (33, 46 and 66 only)
- S = Customized Configuration
- Z = High pressure (250/300# pump body)

#### Seal Material

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

#### Pole-Hz

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

#### Motor Frame (NEMA)

- B = 180TC      E = 280TC
- C = 210TC      F = 320TSC
- D = 250TC      G = 360TSC

#### Configuration

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

#### 125SV ONLY

**Reduced Trim Diameter**  
**Blank if 33-92SV**

A = 141 mm

B = 136 mm

C = 145 mm (full dia.)

#### Number of Reduced Trim Impellers

#### Total Number of Impellers/Stages

**Product Line:** SV - Stainless Vertical

#### Nominal Flow:

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

## Commercial Water

### e-SV Product Line

### Numbering System for 1 - 22SV Pump & Motor Combination

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

Note: Not all combinations are possible.

#### Example Product Code

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

#### Special Configurations (1 or 2 Characters)

|                                    |                                      |
|------------------------------------|--------------------------------------|
| A = Cooling Chamber only           | K = Horizontal mount + Low NPSH      |
| B = Cooling Chamber + Passivation  | L = Horizontal mount + High Pressure |
| C = Cooling Chamber + Low NPSH     | M = i-Alert                          |
| F = Destaged - 1 stage             | N = Low NPSH only                    |
| G = Destaged - 2 stage             | P = Passivation only                 |
| H = Horizontal mount only          | S = Customized Configuration         |
| J = Horizontal mount + Passivation | 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           | 5 = Prem-ODP  | 9 = Marine        |
| 2 = TEFC          | 6 = Prem-TEFC | A = Chem          |
| 3 = X-Proof       | 7 = Prem-XP   | B = Prem-Chem     |
| 4 = WD - Tropical | 8 = Prem-WD   | C = Class 1 Div 2 |

#### Voltage

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

#### Pole-Hz-Phase

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

#### HP Rating

|          |         |        |         |
|----------|---------|--------|---------|
| A = 0.50 | F = 3   | L = 20 | S = 60  |
| B = 0.75 | G = 5   | M = 25 | T = 75  |
| C = 1.00 | H = 7.5 | N = 30 | U = 100 |
| D = 1.50 | J = 10  | P = 40 |         |
| E = 2    | K = 15  | R = 50 |         |

#### Configuration OPTION

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

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

#### Product Line:

SV - Stainless Vertical

#### Nominal Flow:

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

### e-SV Product Line

### Numbering System for 33 - 125SV Pump & Motor Combination

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

Note: Not all combinations are possible.

#### Example Product Code

125 SV 8 2 A G K 3 F 2 0

#### Special Configurations (1 or 2 Characters)

- |                                      |                                            |
|--------------------------------------|--------------------------------------------|
| H = Horizontal mount only            | N = Low NPSH only (33, 46 and 66 only)     |
| J = Horizontal mount + Passivation   | P = Passivation only                       |
| K = Horizontal mount + Low NPSH      | S = Customized Configuration               |
| L = Horizontal mount + High Pressure | Z = High Press (250/300# pump body/Casing) |
| M = i-Alert                          |                                            |

#### Seal Material

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

#### Motor Enclosure

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

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

#### HP Rating

- |         |        |         |
|---------|--------|---------|
| F = 3   | L = 20 | R = 50  |
| G = 5   | M = 25 | S = 60  |
| H = 7.5 | N = 30 | T = 75  |
| J = 10  | P = 40 | U = 100 |
| K = 15  |        |         |

#### Configuration

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

#### 125SV ONLY

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

#### Number of Reduced Trin Impeller

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

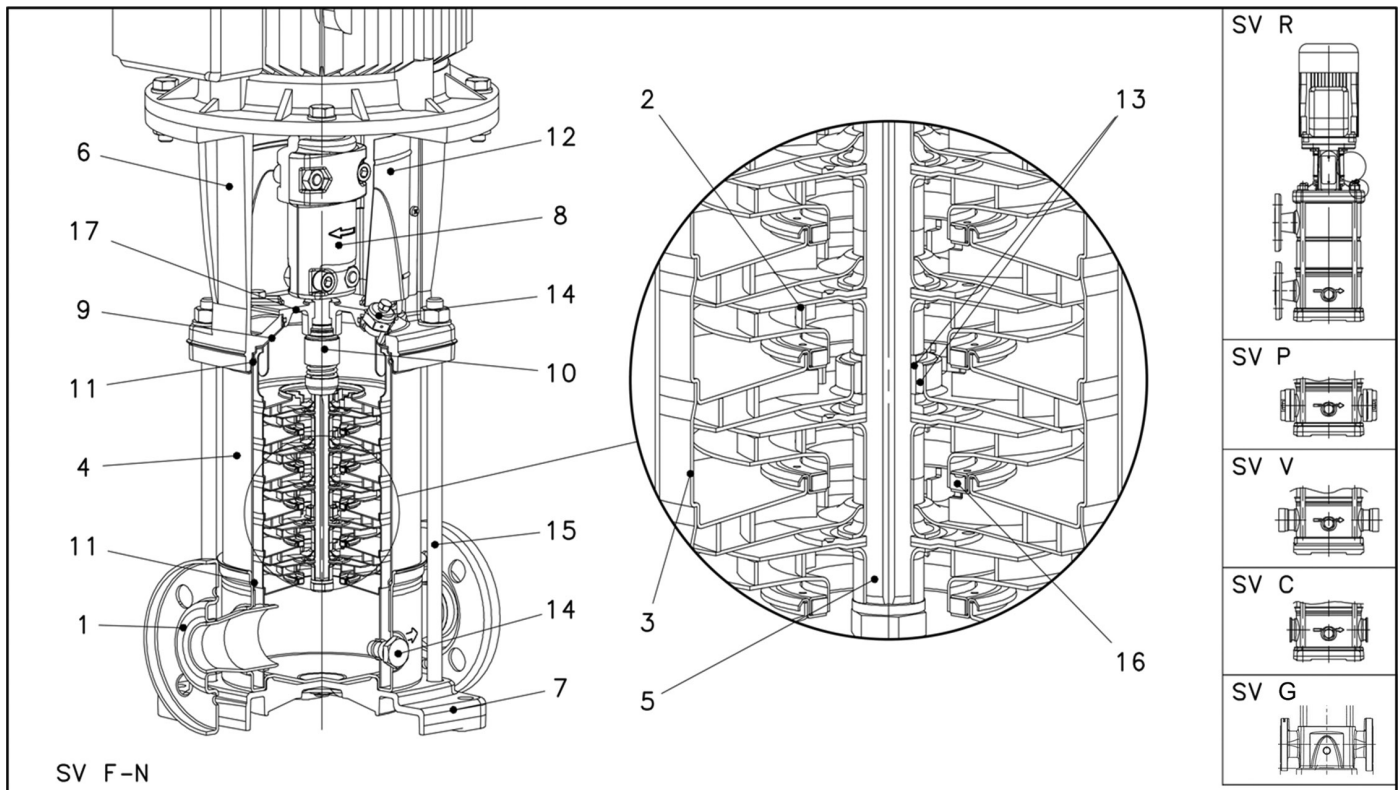
#### Product Line:

SV - Stainless Vertical

#### Nominal Flow:

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

### Base Models: 1-22SV – Major Components



### Base Models: 1-22SV – Major Components

#### F, G, P, R VERSIONS

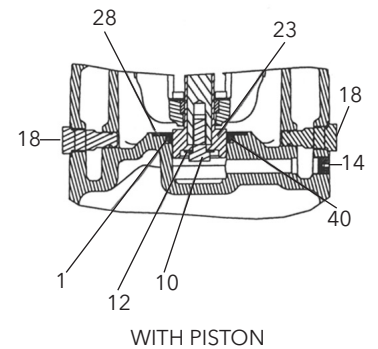
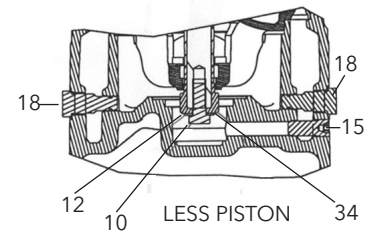
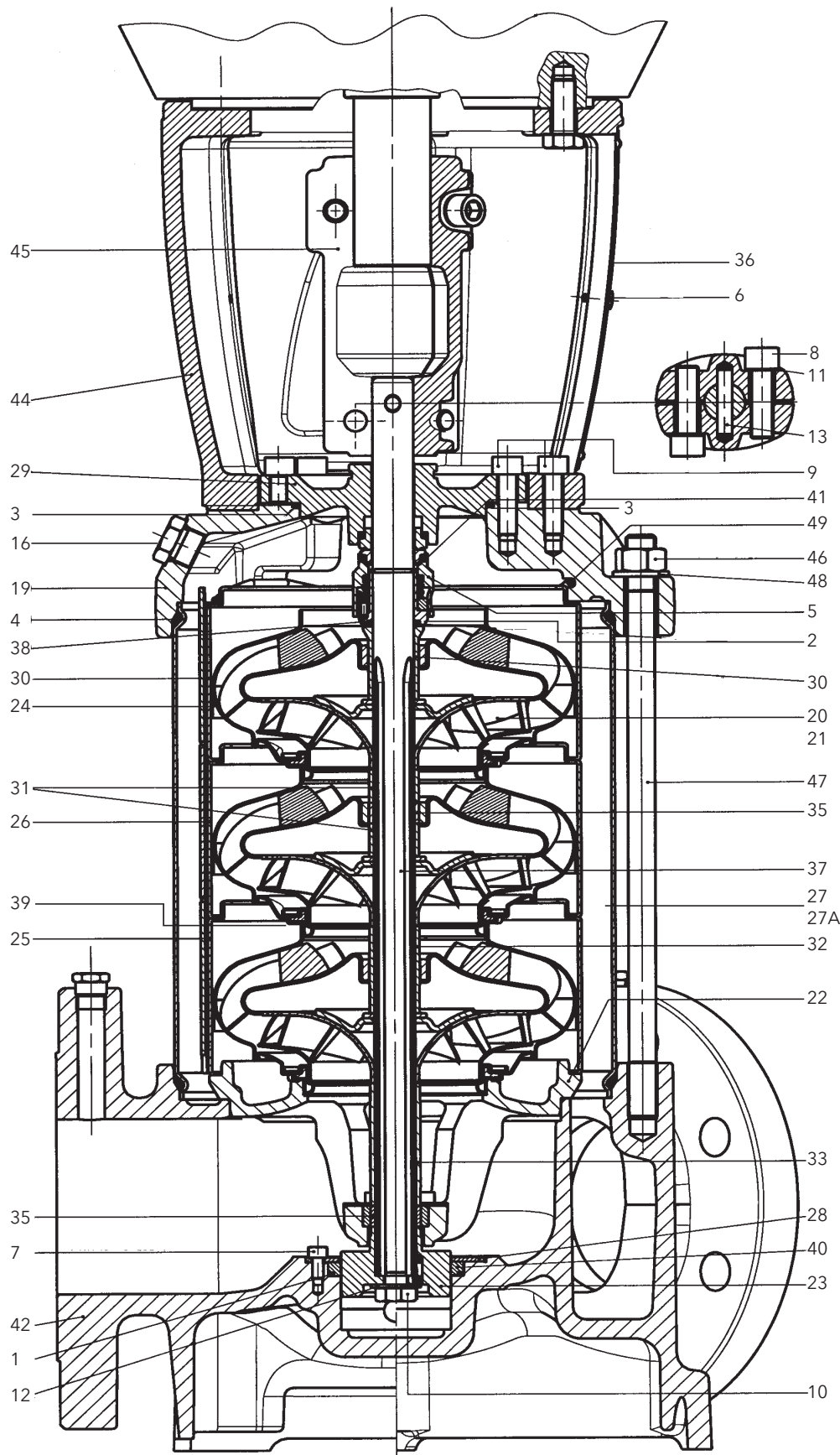
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|----------|--------------------------|----------------------------------------------|---------------------|--------------------------------------|
|          |                          |                                              | USA                 | Europe                               |
| 1        | Pump Body                | Stainless Steel (F, P, R)                    | AISI 304            | EN 10088-1-X5-CrNi18-10 (1.4301)     |
|          |                          | Cast Iron (G)                                | ASTM Class 35/40B   | EN 1561 GJL 250 (JL1040)             |
| 2        | Impeller                 | Stainless Steel                              | AISI 304            | EN 10088-1-X5-CrNi18-10 (1.4301)     |
| 3        | Diffuser                 | Stainless Steel                              | AISI 304            | EN 10088-1-X5-CrNi18-10 (1.4301)     |
| 4        | Casing                   | Stainless Steel                              | AISI 316L           | EN 10088-1-X2-CrNiMo17-12-2 (1.4404) |
| 5        | Shaft                    | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401) |
| 6        | Adapter                  | Cast Iron                                    | ASTM Class 35/40B   | EN 1561-GJL-250 (JL1040)             |
| 7        | Base                     | Aluminum (F, P, R)                           | A384.0-F            | EN 1706-AC-AISI11Cu2(Fe) (AC46100)   |
|          |                          | N/A (G)                                      | N/A                 | N/A                                  |
| 8        | Coupling                 | Aluminum                                     | A384.0-F            | EN 1706-AC-AISI11Cu2(Fe) (AC46100)   |
| 9        | Seal Plate               | Stainless Steel                              | AISI 316L           | EN 10088-1-X2-CrNi17-12-2 (1.4404)   |
| 10       | Mechanical Seal          | Silicon Carbide / Carbon / Viton (opt. EPDM) |                     |                                      |
| 11       | Elastomers               | Viton (opt. EPDM)                            |                     |                                      |
| 12       | Coupling Guard           | Stainless Steel                              | AISI 304            | EN 10088-1-X5-CrNi18-10 (1.4301)     |
| 13       | Shaft Sleeve and Bushing | Tungsten Carbide                             |                     |                                      |
| 14       | Fill/Drain Plugs         | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401) |
| 15       | Tie Rods                 | Carbon Steel / Zinc Plated                   | A29 Gr. 1045        | EN 10277                             |
| 16       | Wear Ring                | PPS                                          |                     |                                      |
| 17       | Seal Gland               | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401) |

#### N, P, C VERSIONS

| Ref. No. | Name                     | Material                                     | Reference Standards |                                      |
|----------|--------------------------|----------------------------------------------|---------------------|--------------------------------------|
|          |                          |                                              | USA                 | Europe                               |
| 1        | Pump Body                | Stainless Steel                              | AISI 316L           | EN 10088-1-X2-CrNiMo17-12-2 (1.4404) |
| 2        | Impeller                 | Stainless Steel                              | AISI 316L           | EN 10088-1-X2-CrNiMo17-12-2 (1.4404) |
| 3        | Diffuser                 | Stainless Steel                              | AISI 316L           | EN 10088-1-X2-CrNiMo17-12-2 (1.4404) |
| 4        | Casing                   | Stainless Steel                              | AISI 316L           | EN 10088-1-X2-CrNiMo17-12-2 (1.4404) |
| 5        | Shaft                    | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401) |
| 6        | Adapter                  | Cast Iron                                    | ASTM Class 35/40B   | EN 1561-GJL-250 (JL1040)             |
| 7        | Base                     | Aluminum                                     | A384.0-F            | EN 1706-AC-AISI11Cu2(Fe) (AC46100)   |
| 8        | Coupling                 | Aluminum                                     | A384.0-F            | EN 1706-AC-AISI11Cu2(Fe) (AC46100)   |
| 9        | Seal Plate               | Stainless Steel                              | AISI 316L           | EN 10088-1-X2-CrNi17-12-2 (1.4404)   |
| 10       | Mechanical Seal          | Silicon Carbide / Carbon / Viton (opt. EPDM) |                     |                                      |
| 11       | Elastomers               | Viton (opt. EPDM)                            |                     |                                      |
| 12       | Coupling Guard           | Stainless Steel                              | AISI 304            | EN 10088-1-X5-CrNi18-10 (1.4301)     |
| 13       | Shaft Sleeve and Bushing | Tungsten Carbide                             |                     |                                      |
| 14       | Fill/Drain Plugs         | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401) |
| 15       | Tie Rods                 | Carbon Steel / Zinc Plated                   | A29 Gr. 1045        | EN 10277                             |
| 16       | Wear Ring                | PPS                                          |                     |                                      |
| 17       | Seal Gland               | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401) |

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

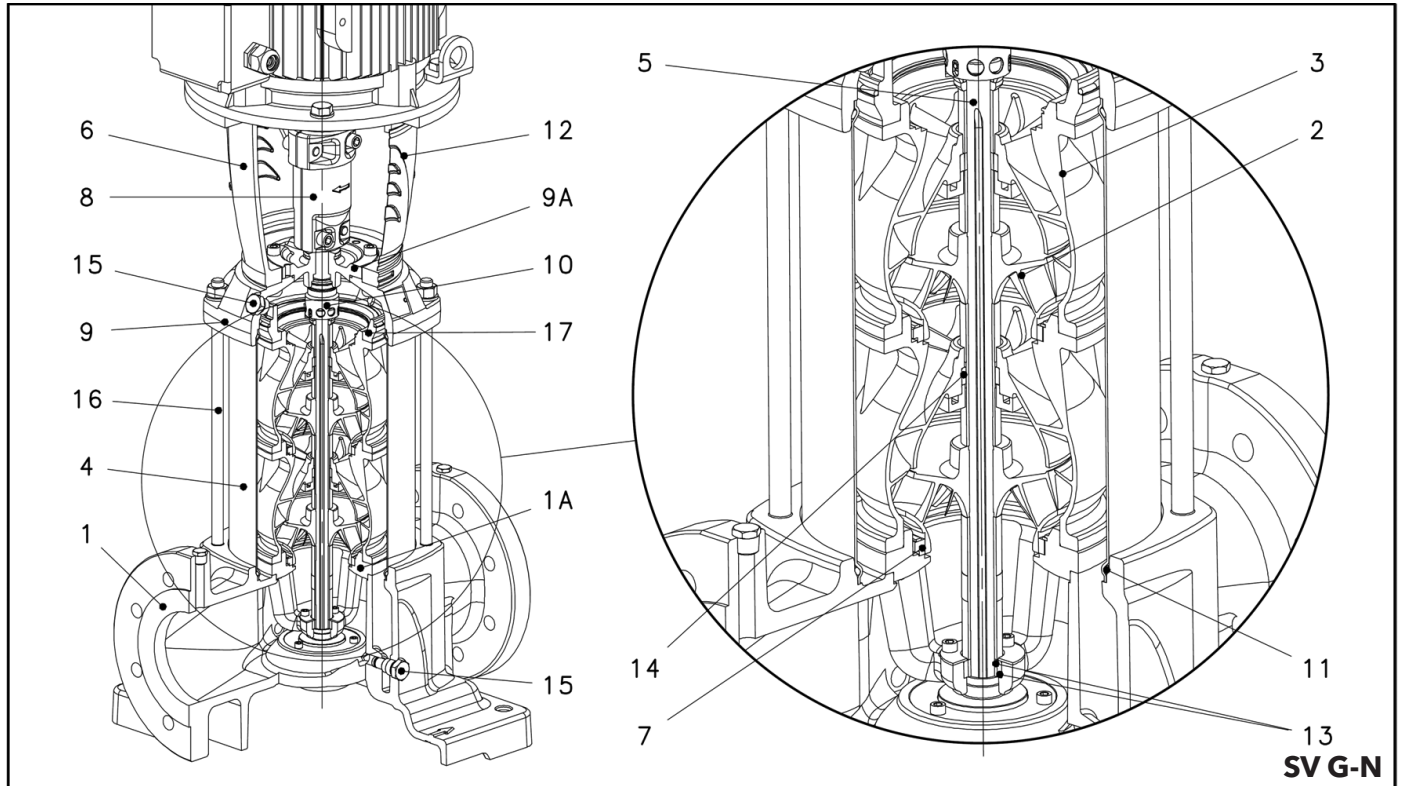
SV G-N



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

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

### Base Models: 125SV – Major Components



### Base Models: 125SV – Major Components

#### G VERSIONS

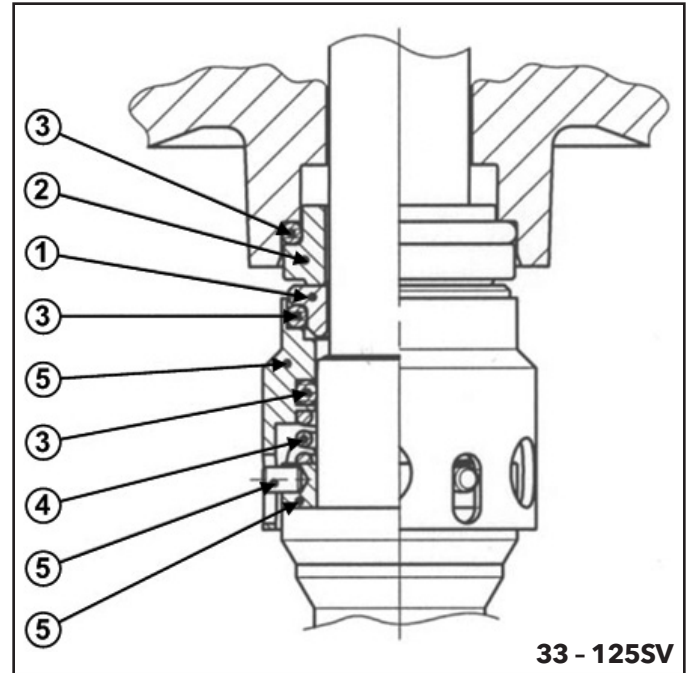
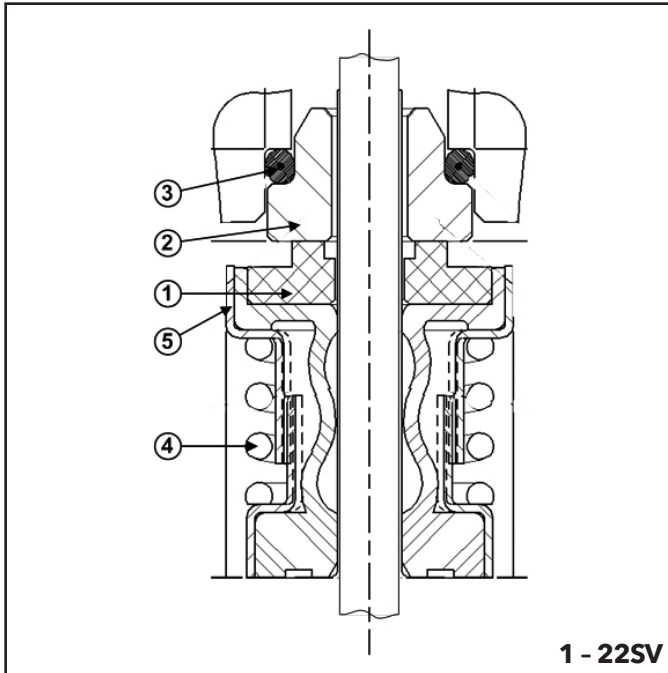
| Ref. No. | Name                       | Material                                     | Reference Standards |                                       |
|----------|----------------------------|----------------------------------------------|---------------------|---------------------------------------|
|          |                            |                                              | USA                 | Europe                                |
| 1        | Pump Body                  | Cast Iron                                    | ASTM Class 35/40B   | EN 1561-GJL-250 (JL1040)              |
| 2        | Impeller                   | Stainless Steel                              | AISI 304            | EN 10088-1-X5-CrNi18-10 (1.4301)      |
| 3        | Diffuser                   | Stainless Steel                              | AISI 304            | EN 10088-1-X5-CrNi18-10 (1.4301)      |
| 4        | Casing                     | Stainless Steel                              | AISI 316L           | EN 10088-1-X2-CrNiMo17-12-2 (1.4404)  |
| 5        | Shaft                      | Duplex Stainless Steel                       | UNS S 31803         | EN 10088-1-X17-CrNiMoN22-5-3 (1.4507) |
| 6        | Adapter (up to 40HP)       | Cast Iron                                    | ASTM Class 25       | EN 1561-GJL-200 (JL1040)              |
|          | Adapter (50HP and higher)  |                                              | ASTM Class A536     | EN 1561-GJL-500-7 (JS1050)            |
| 7        | Wear Ring                  | PPS                                          |                     |                                       |
| 8        | Coupling (up to 40HP)      | Cast Iron                                    | A384.0-F            | EN 1706-AC-AISI11Cu2(Fe) (AC46100)    |
|          | Coupling (50HP and higher) |                                              |                     |                                       |
| 9-9A     | Upper Head / Seal Housing  | Cast Iron                                    | ASTM Class 35/40B   | EN 1561-GJL-250 (JL1040)              |
| 10       | Mechanical Seal            | Silicon Carbide / Carbon / Viton (opt. EPDM) |                     |                                       |
| 11       | Elastomers                 | Viton (opt. EPDM)                            |                     |                                       |
| 12       | Coupling Guard             | Stainless Steel                              | AISI 304            | EN 10088-1-X5-CrNi18-10 (1.4301)      |
| 13       | Shaft Sleeve and Bushing   | Tungsten Carbide                             |                     |                                       |
| 14       | Bushing for Diffuser       | Carbon                                       |                     |                                       |
| 15       | Fill/Drain Plugs           | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401)  |
| 16       | Tie Rods                   | Carbon Steel / Zinc Plated                   | A29 Gr. 1045        | EN 10277                              |
| 17       | Adapter Ring               | Stainless Steel                              | AISI 304            | EN 10088-1-X5-CrNi18-10 (1.4301)      |

#### N VERSIONS

| Ref. No. | Name                       | Material                                     | Reference Standards |                                       |
|----------|----------------------------|----------------------------------------------|---------------------|---------------------------------------|
|          |                            |                                              | USA                 | Europe                                |
| 1        | Pump Body                  | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401)  |
| 2        | Impeller                   | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401)  |
| 3        | Diffuser                   | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401)  |
| 4        | Casing                     | Stainless Steel                              | AISI 316L           | EN 10088-1-X2-CrNiMo17-12-2 (1.4404)  |
| 5        | Shaft                      | Duplex Stainless Steel                       | UNS S 31803         | EN 10088-1-X17-CrNiMoN22-5-3 (1.4507) |
| 6        | Adapter (up to 40HP)       | Cast Iron                                    | ASTM Class 25       | EN 1561-GJL-200 (JL1040)              |
|          | Adapter (50HP and higher)  |                                              | ASTM Class A536     | EN 1561-GJL-500-7 (JS1050)            |
| 7        | Wear Ring                  | PPS                                          |                     |                                       |
| 8        | Coupling (up to 40HP)      | Cast Iron                                    | A384.0-F            | EN 1706-AC-AISI11Cu2(Fe) (AC46100)    |
|          | Coupling (50HP and higher) |                                              |                     |                                       |
| 9-9A     | Upper Head / Seal Housing  | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401)  |
| 10       | Mechanical Seal            | Silicon Carbide / Carbon / Viton (opt. EPDM) |                     |                                       |
| 11       | Elastomers                 | Viton (opt. EPDM)                            |                     |                                       |
| 12       | Coupling Guard             | Stainless Steel                              | AISI 304            | EN 10088-1-X5-CrNi18-10 (1.4301)      |
| 13       | Shaft Sleeve and Bushing   | Tungsten Carbide                             |                     |                                       |
| 14       | Bushing for Diffuser       | Carbon                                       |                     |                                       |
| 15       | Fill/Drain Plugs           | Stainless Steel                              | AISI 316            | EN 10088-1-X2-CrNiMo17-12-2 (1.4401)  |
| 16       | Tie Rods                   | Carbon Steel / Zinc Plated                   | A29 Gr. 1045        | EN 10277                              |
| 17       | Adapter Ring               | Stainless Steel                              | AISI 304            | EN 10088-1-X5-CrNi18-10 (1.4301)      |

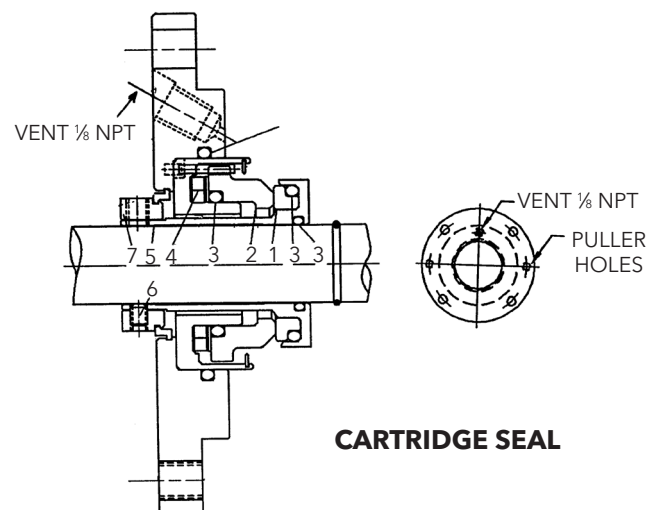
## Commercial Water

### e-SV Mechanical Seals



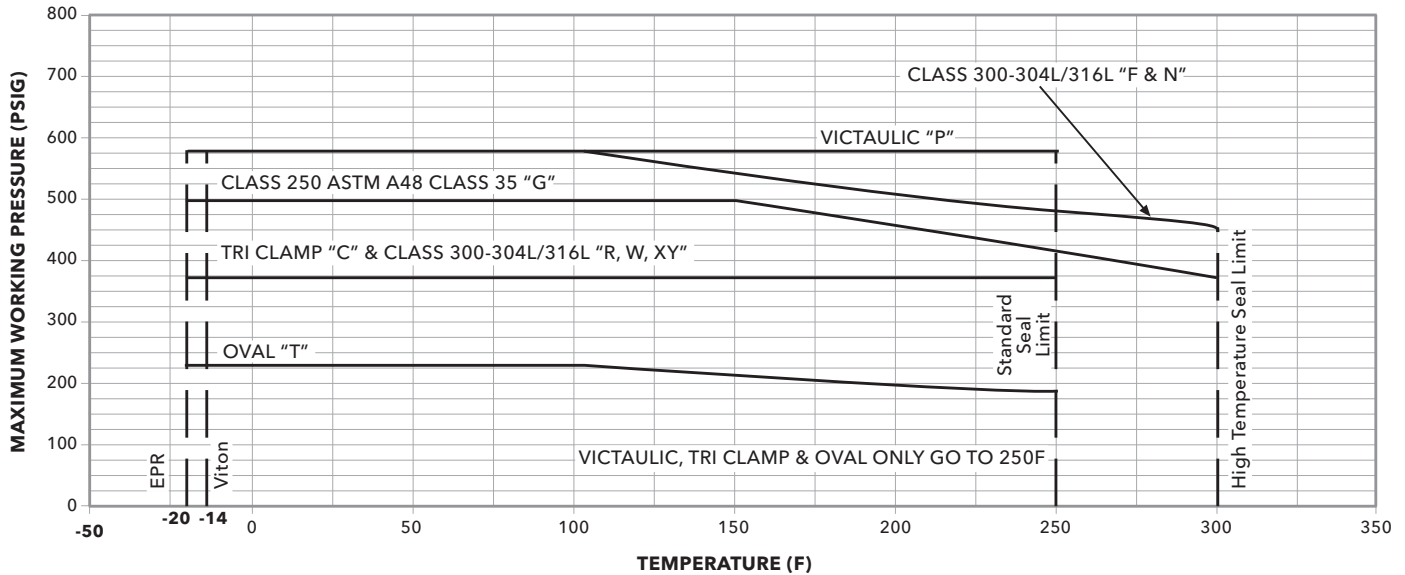
| Pump                  | Code | Rotating Face<br>1                 | Stationary Face<br>2               | Elastomers<br>3                   | Spring<br>4 | Metal Components<br>5 | Elastomer Temp<br>Limits °F (°C) | Seal Temp<br>Limits °F (°C)  | Max. Working<br>Pressure | Application               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

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

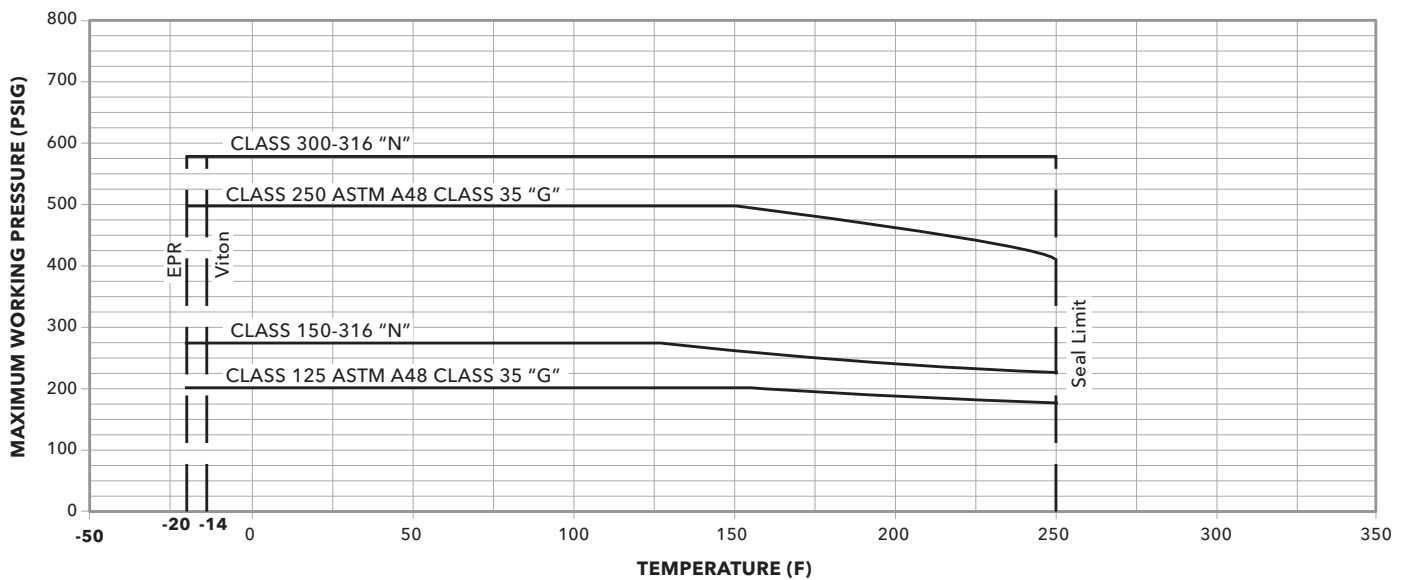


### Maximum Allowable Working Pressure Charts

#### 1SV-22SV

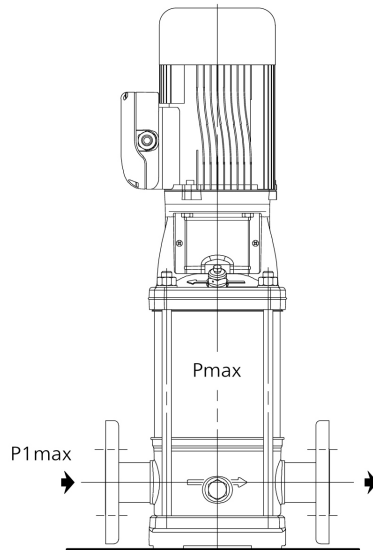


#### 33SV-125SV



### Maximum Inlet Pressure

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



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

Having the following meaning of the symbols:

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

$p_{1\max}$  = Maximum inlet pressure

PN = Maximum operating pressure

### Motor Data - Starts per Hour / Minimum Run Time

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

#### NOTE(S)

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

## Commercial Water

### Motor Data

#### 3500 RPM, 60Hz

| HP | Phase | Voltage     | FLA         | Enclosure | Order No.    | SF   | Frame Size |
|----|-------|-------------|-------------|-----------|--------------|------|------------|
| ½  | 1     | 115/208-230 | 7/4.1-3.5   | DP        | V04721       | 1.25 | 56C        |
|    |       | 115/208-230 |             | TEFC      | V04722       | 1.25 |            |
|    | 3     | 208-230/460 | 2.6-2/1     | DP        | V04A32E1BB3S | 1.25 |            |
|    |       | 575         | 0.8         |           | V04779       | 1.25 |            |
|    |       | 208-230/460 | 1.5/.75     | DPE       | V04A32E4BB2S | 1.25 |            |
|    |       | 230/460     | 2.6-2/1     | TEFC      | V04A32F2BB3S | 1.25 |            |
|    |       | 575         | 0.8         |           | V04789       | 1.25 |            |
|    |       | 208-230/460 | 1.5/.75     | TPE       | V04A32E5BB3S | 1.25 |            |
|    |       | 208-230/460 | 2.4-2.2/1.1 | XP        | V04A32E3BB1S | 1.00 |            |
|    |       |             |             |           |              |      |            |
|    |       |             |             |           |              |      |            |
| ¾  | 1     | 115/208-230 | 9.4/5.8-4.7 | DP        | V05721       | 1.25 | 56C        |
|    |       | 115/208-230 | 9.6/6.1-4.8 | TEFC      | V05A12A2BB3S | 1.25 |            |
|    | 3     | 230/460     | 2.7-2.6/1.3 | DP        | V05A32F1BB3S | 1.25 |            |
|    |       | 575         | 0.96        |           | V05779       | 1.25 |            |
|    |       | 208-230/460 | 2.7-2.6/1.3 | DPE       | V05A32E4BB2S | 1.25 |            |
|    |       | 208-230/460 |             | TEFC      | V05A32E2BB3S | 1.25 |            |
|    |       | 575         | .96         |           | V05789       | 1.25 |            |
|    |       | 208-230/460 | 2.5-2.2/1.1 | TPE       | V05A32E5BB3S | 1.25 |            |
|    |       | 208-230/460 | 2.7-2.6/1.3 | XP        | V05A32E3BB1S | 1.00 |            |
|    |       |             |             |           |              |      |            |
|    |       |             |             |           |              |      |            |
| 1  | 1     | 115/208-230 | 15/7.9-7.5  | DP        | V06721       | 1.25 | 56C        |
|    |       | 115/230     | 12/6        | TEFC      | V06A12B2BB3S | 1.25 |            |
|    | 3     | 208-230/460 | 3.7-3.6/1.8 | DP        | V06A32E1BB3S | 1.25 |            |
|    |       | 575         | 1.4         |           | V06A32H1BB2S | 1.25 |            |
|    |       | 208-230/460 | 3.7-3.6/1.8 | DPE       | V06A32E4BB2S | 1.25 |            |
|    |       | 208-230/460 |             | TEFC      | V06A32E2BB3S | 1.25 |            |
|    |       | 575         | 1.4         |           | V06A32H2BB3S | 1.25 |            |
|    |       | 230/460     | 2.8/1.4     | TPE       | V06A32F5BB3S | 1.25 |            |
|    |       | 208-230/460 | 3.7-3.6/1.8 | XP        | V06A32E3BB1S | 1.00 |            |
|    |       |             |             |           |              |      |            |
|    |       |             |             |           |              |      |            |
| 1½ | 1     | 115/208-230 | 12.8/7-6.4  | DP        | V07721       | 1.15 | 56C        |
|    |       | 115/208-230 | 16/8.4-8    | TEFC      | V07722       | 1.15 |            |
|    | 3     | 208-230/460 | 4.9-4.6/2.3 | DP        | V07A32E1BB2S | 1.15 |            |
|    |       | 575         | 1.8         |           | V07A32H1BB2S | 1.15 |            |
|    |       | 208-230/460 | 4.5-4.2/2.1 | DPE       | V07741PE     | 1.15 |            |
|    |       | 208-230/460 | 4.9-4.6/2.3 | TEFC      | V07A32E2BB2S | 1.15 |            |
|    |       | 575         | 1.8         |           | V07789       | 1.15 |            |
|    |       | 208-230/460 | 4.3-4/2     | TPE       | V07742PE     | 1.15 |            |
|    |       | 208-230/460 | 5-4.6/2.3   | XP        | V07743       | 1.00 |            |
|    |       |             |             |           |              |      |            |
|    |       |             |             |           |              |      |            |
|    |       |             |             |           |              |      |            |

## Commercial Water

### Motor Data

#### 3500 RPM, 60Hz

| HP | Phase | Voltage     | FLA           | Enclosure | Order No.    | SF   | Frame Size |
|----|-------|-------------|---------------|-----------|--------------|------|------------|
| 2  | 1     | 115/208-230 | 26/12.4-13    | DP        | V08721       | 1.15 | 56C        |
|    |       | 115/208-230 | 23/12-11.5    | TEFC      | V08722       | 1.15 |            |
|    |       | 575         | 2.2           |           | V08779       | 1.15 |            |
|    |       | 208-230/460 | 5.5-5/2.5     | DPE       | V08A32E4BB2S | 1.15 |            |
|    |       | 208-230/460 | 6.2-5.8/2.9   | TEFC      | V08A32E2BB2S | 1.15 |            |
|    |       | 575         | 2.2           |           | V08A32H2BB2S | 1.15 |            |
|    |       | 208-230/460 | 5.4-5/2.5     | TPE       | V08A32E5BB2S | 1.15 |            |
|    |       | 208-230/460 | 5.7-5.4/2.7   | XP        | V08743       | 1.00 |            |
| 3  | 1     | 208-230     | 13.9-13       | DP        | V09721       | 1.15 | 56C        |
|    |       | 115/208-230 | 26/13.8-13    | TEFC      | V09A12A2BB2S | 1.15 |            |
|    |       | 575         | 3.2           |           | V09A32H1BB2S | 1.15 |            |
|    |       | 230/460     | 8-7.4/3.7     | DPE       | V09A32F4BB2S | 1.15 |            |
|    |       | 208-230/460 | 8.1-7.6/3.8   | TEFC      | V09A32E2BB2S | 1.15 |            |
|    |       | 575         | 3             |           | V09A32H2BB2S | 1.15 |            |
|    |       | 208-230/460 | 7/3.5         | TPE       | V09A32E5BD2S | 1.15 | 182TC      |
|    |       | 208-230/460 | 7.8-7.4/3.7   | XP        | V09743       | 1.00 | 56C        |
| 5  | 1     | 208-230     | 24-23         | DP        | V10721A      | 1.15 | 184TC      |
|    |       | 208-230     | 23.5-21.7     | TEFC      | V10A12D2BD2S | 1.15 |            |
|    | 3     | 208-230/460 | 13.1-11.5/5.7 | DP        | V10A32E1BD2S | 1.15 | 182TC      |
|    |       | 575         | 4.8           |           | V10A32H1BD2S | 1.15 |            |
|    |       | 208-230/460 | 12.3-11.2/5.6 | DPE       | V10741APE    | 1.15 | 184TC      |
|    |       | 208-230/460 | 13.2-12/6     | TEFC      | V10A32E2BD2S | 1.15 |            |
|    |       | 575         | 4.8           |           | V10A32H2BD2S | 1.15 |            |
|    |       | 230/460     | 11.2/5.6      | TPE       | V10A32F5BD2S | 1.15 |            |
|    |       | 208-230/460 | 13.2-12/6     | XP        | V10A32E3BD1S | 1.00 |            |
| 7½ | 1     | 230         | 29            | DP        | V11721       | 1.15 | 213TC      |
|    |       | 230         | 33            | TEFC *    | V11722       | 1.15 |            |
|    | 3     | 208-230/460 | 19-18/9       | DP        | V11A32E1BD2S | 1.15 | 184TC      |
|    |       | 575         | 7.2           |           | V11A32H1BB2S | 1.15 |            |
|    |       | 208-230/460 | 18.5-16.8/8.4 | DPE       | V11741APE    | 1.15 |            |
|    |       | 208-230/460 | 18.5-17.4/8.7 | TEFC      | V11A32E2BD2S | 1.15 |            |
|    |       | 575         | 7             |           | V11A32H2BD2S | 1.15 |            |
|    |       | 230/460     | 17.8/8.9      | TPE       | V11742APE    | 1.15 | 213TC      |
|    |       | 230/460     | 17.6/8.8      | XP        | V11743A      | 1.00 | 184TC      |

### Motor Data

#### 3500 RPM, 60Hz

| HP | Phase | Voltage     | FLA            | Enclosure | Order No.    | SF   | Frame Size |
|----|-------|-------------|----------------|-----------|--------------|------|------------|
| 10 | 1     | 208-230     | 48-46          | DP        | V12A12C1BE2S | 1.15 | 215TC      |
|    |       | 208-230     | 42-40          | TEFC *    | V12722       | 1.15 |            |
|    | 3     | 208-230/460 | 25.6-23.2/11.6 | DP        | V12A32E1BE2S | 1.15 | 213TC      |
|    |       | 575         | 10             |           | V12A32H1BE2S | 1.15 |            |
|    |       | 208-230/460 | 24-23/11.5     | DPE       | V12A32E4BE2S | 1.15 |            |
|    |       | 208-230/460 | 26.2-23.8/11.9 | TEFC      | V12A32E2BE2S | 1.15 | 215TC      |
|    |       | 575         | 9.6            |           | V12789       | 1.15 |            |
|    |       | 230/460     | 23.8/11.9      | TPE       | V12A32F5BE2S | 1.15 |            |
|    |       | 208-230/460 | 28-26/13       | XP        | V12743       | 1.00 |            |
| 15 |       | 208-230/460 | 39-37/18.5     | DP        | V13A32E1BE2S | 1.15 | 215TC      |
|    |       | 575         | 14.5           |           | V13779       | 1.15 |            |
|    |       | 208-230/460 | 36.7-34/17     | DPE       | V13A32E4BE2S | 1.15 |            |
|    |       | 208-230/460 | 38-35/17.5     | TEFC      | V13A32E2BK2S | 1.15 | 254TC      |
|    |       | 575         | 14             |           | V13A32H2BK2S | 1.15 |            |
|    |       | 208-230/460 | 37-34.4/17.2   | TPE       | V13A32E5BK2S | 1.15 |            |
|    |       | 208-230/460 | 37-33.6/16.8   | XP        | V13A32E3BK2S | 1.00 |            |
| 20 |       | 230/460     | 46/23          | DP        | V14A32F1BK2S | 1.15 | 215TC      |
|    |       | 575         | 18             |           | V14A32H1BK2S | 1.15 |            |
|    |       | 230/460     | 58/29          | DPE       | V14A32F4BK2S | 1.15 |            |
|    |       | 208-230/460 | 50-46/23       | TEFC      | V14742       | 1.15 | 256TC      |
|    |       | 575         | 18.5           |           | V14A32H2BK2S | 1.15 |            |
|    |       | 208-230/460 | 49-45/22.5     | TPE       | V14A32E5BK2S | 1.15 |            |
|    |       | 208-230/460 | 49-45/22.5     | XP        | V14743       | 1.00 |            |
| 25 |       | 208-230/460 | 65-60/30       | DP        | V15A32E1BK2S | 1.15 | 254TC      |
|    |       | 575         | 24             |           | V15A32H1BK2S | 1.15 |            |
|    |       | 230/460     | 58/29          | DPE       | V15A32F4BK2S | 1.15 | 256TC      |
|    |       | 208-230/460 | 61-57/28.5     | TEFC      | V15A32E2BL2S | 1.15 | 284TC      |
|    |       | 575         | 22.5           |           | V15789       | 1.15 |            |
|    |       | 208-230/460 | 60-56/28       | TPE       | V15742PE     | 1.15 |            |
|    |       | 230/460     | 57/28.5        | XP        | V15743       | 1.15 |            |
| 30 |       | 230/460     | 70/35          | DP        | V16741       | 1.15 | 286TC      |
|    |       | 575         | 27             |           | V16A32H1BB2S | 1.15 |            |
|    |       | 230/460     | 68/34          | DPE       | V16A32F4BL2S | 1.15 |            |
|    |       | 208-230/460 | 74-68/34       | TEFC      | V16742       | 1.15 | 286TC      |
|    |       | 575         | 27             |           | V16A32H2BL2S | 1.15 |            |
|    |       | 208-230/460 | 76-68/34       | TPE       | V16A32E5BL2S | 1.15 | 284TC      |
|    |       | 208-230/460 | 74-70/35       | XP        | V16743       | 1.15 | 286TC      |

## Commercial Water

### Motor Data

#### 3500 RPM, 60Hz

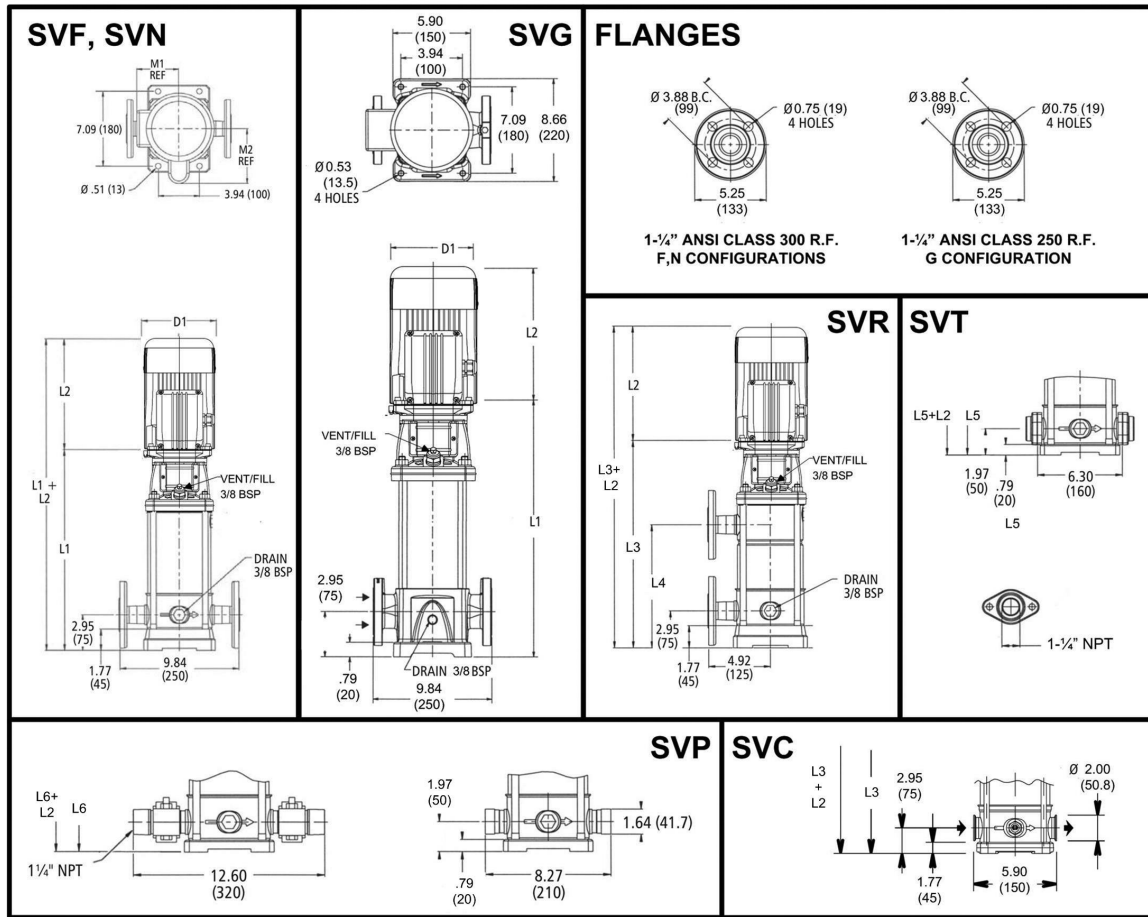
| HP | Phase | Voltage     | FLA        | Enclosure | Order No.    | SF   | Frame Size |
|----|-------|-------------|------------|-----------|--------------|------|------------|
| 40 |       | 208-230/460 | 102-96/48  | DP        | V17741       | 1.15 | 286TC      |
|    |       | 575         | 37         |           | V17A32H1BL2S | 1.15 |            |
|    |       | 230/460     | 90/45      | DPE       | V17A32F4BL2S | 1.15 |            |
|    |       | 208-230/460 | 100-90/45  | TEFC      | V17A32E2BL2S | 1.15 |            |
|    |       | 575         | 35         |           | V17789       | 1.15 |            |
|    |       | 230/460     | 95.7-88/44 | TPE       | X17A32F5BM2S | 1.15 | 324TSC     |
|    |       | 208-230/460 | 100-90/45  | XP        | X17A32F3BM2S | 1.15 |            |
| 50 | 3     | 230/460     | 118/59     | DP        | V18741S      | 1.15 | 324TSC     |
|    |       | 575         | 48         |           | V18779S      | 1.15 |            |
|    |       | 230/460     | 110/55     | DPE       | V18741SPE    | 1.15 |            |
|    |       | 208-230/460 | 126-112/56 | TEFC      | X18A32E2BM2S | 1.15 | 326TSC     |
|    |       | 575         | 45         |           | V18789S      | 1.15 |            |
|    |       | 208-230/460 | 119-108/54 | TPE       | X18A32E5BM2S | 1.15 |            |
|    |       | 230/460     | 112/56     | XP        | X18A32F3BM2S | 1.15 |            |
| 60 |       | 208-230/460 | 148-136/68 | DP        | V19741S      | 1.15 | 326TSC     |
|    |       | 575         | 55         |           | V19779S      | 1.15 |            |
|    |       | 230/460     | 130/65     | DPE       | V19741SPE    | 1.15 |            |
|    |       | 230/460     | 138/69     | TEFC      | X19A32F2BP2S | 1.15 | 364TSC     |
|    |       | 575         | 56         |           | V19789S      | 1.15 |            |
|    |       | 208-230/460 | 150-134/67 | TPE       | X19A32F5BP2S | 1.15 |            |
|    |       | 230/460     | 134/67     | XP        | X19A32F3BP2S | 1.15 |            |
| 75 |       | 230/460     | 176/88     | DP        | V20741S      | 1.15 | 364TSC     |
|    |       | 575         | 75         |           | V20779S      | 1.15 |            |
|    |       | 230/460     | 174/87     | DPE       | X20A32F4BP2S | 1.15 |            |
|    |       | 208-230/460 | 182-166/83 | TEFC      | X20A32F2BP2S | 1.15 | 365TSC     |
|    |       | 575         | 67         |           | V20789S      | 1.15 |            |
|    |       | 230/460     | 166/83     | TPE       | X20A32F5BP2S | 1.15 |            |
|    |       | 230/460     |            | XP        | X20A32F3BP2S | 1.15 |            |

#### NOTES:

\* Standard DP and TE Motors have a 1.15 Service Factor except for 7.5 HP and 10 HP, single-phase, TE Motors which are 1.0 S.F.

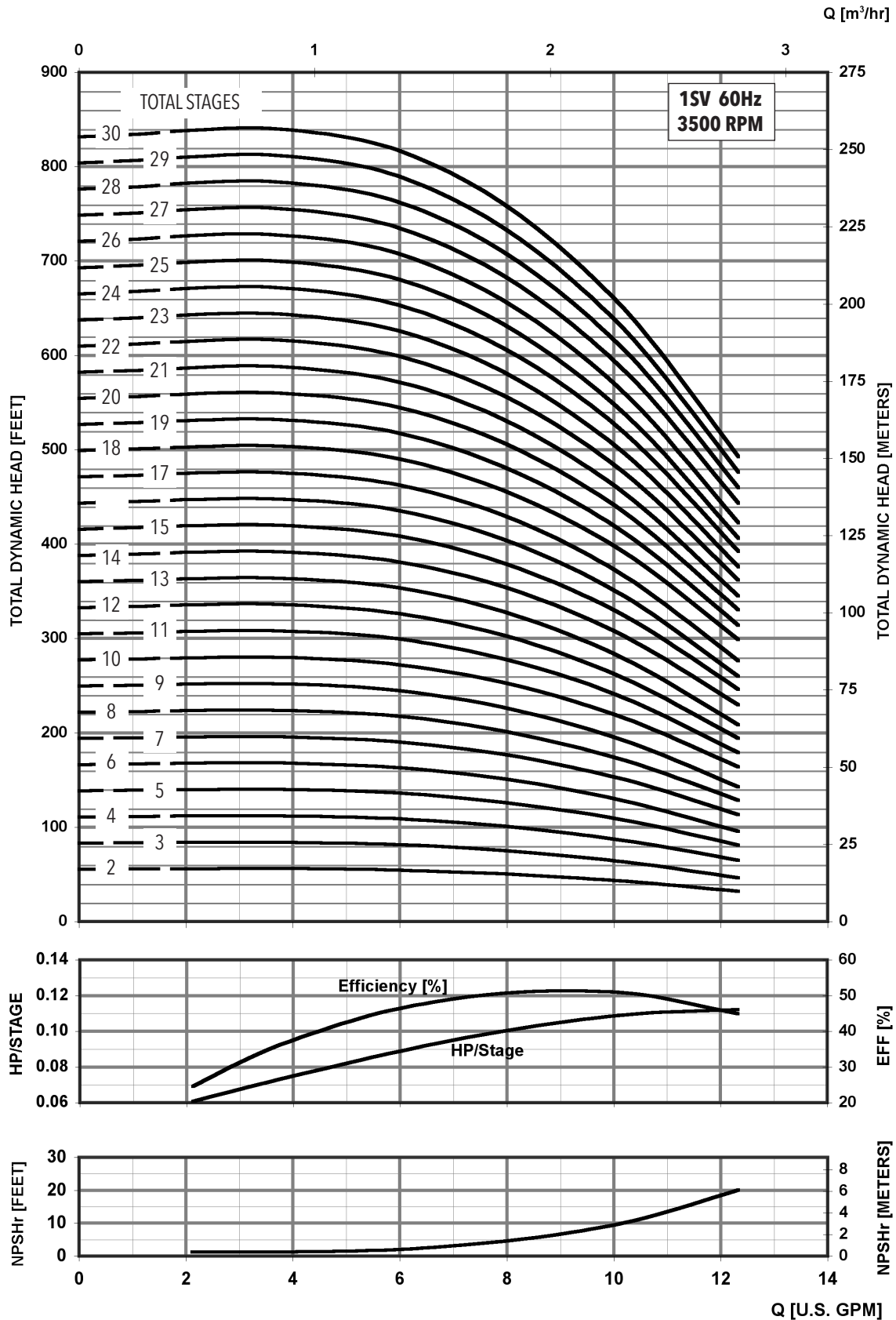
EXPLOSION-PROOF (XP) Motors above have a 1.15 Service Factor, min. Class B insulation, and a UL Class 1, Div. 1, Group D rating.

For availability consult factory. Goulds Water Technology choice of vendor.

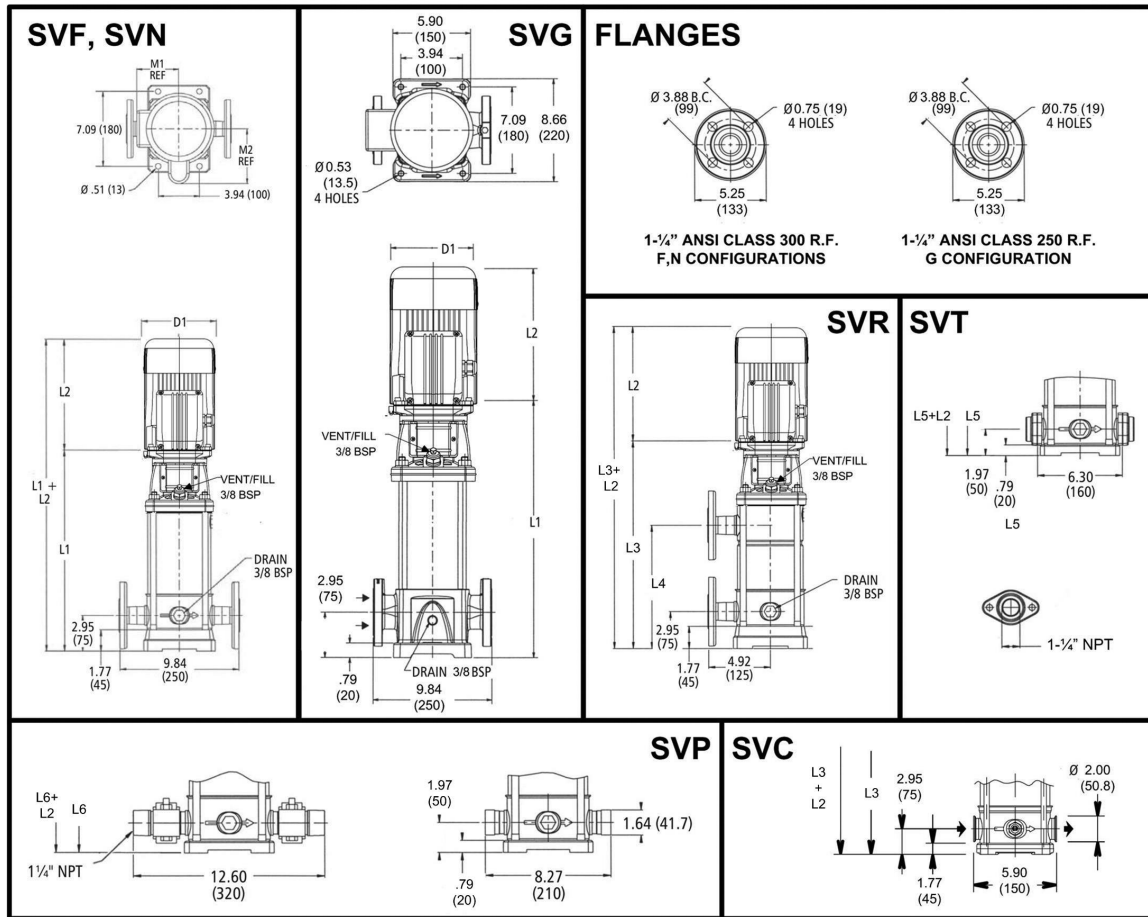


### 1SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

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



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



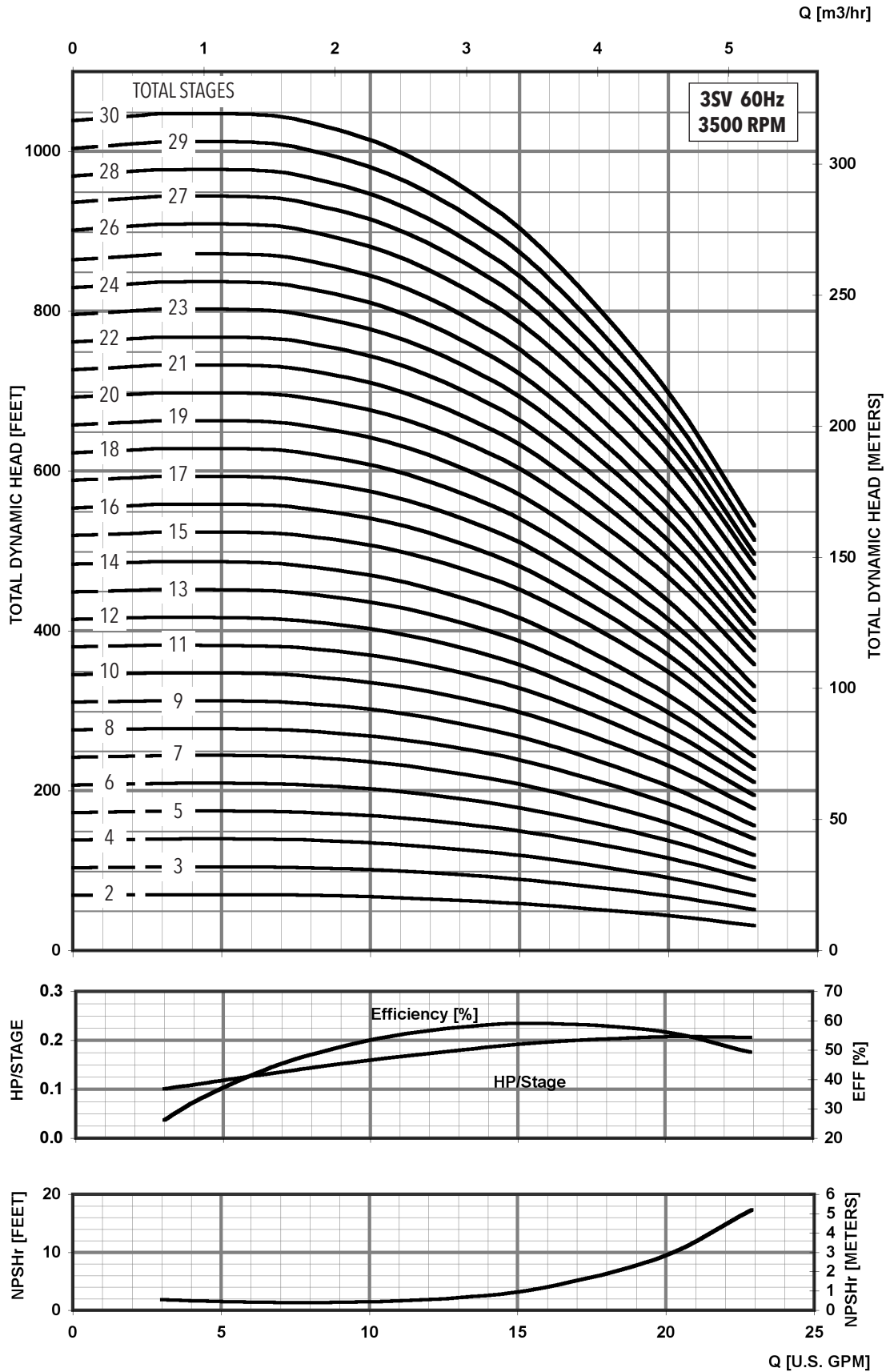
### 3SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

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

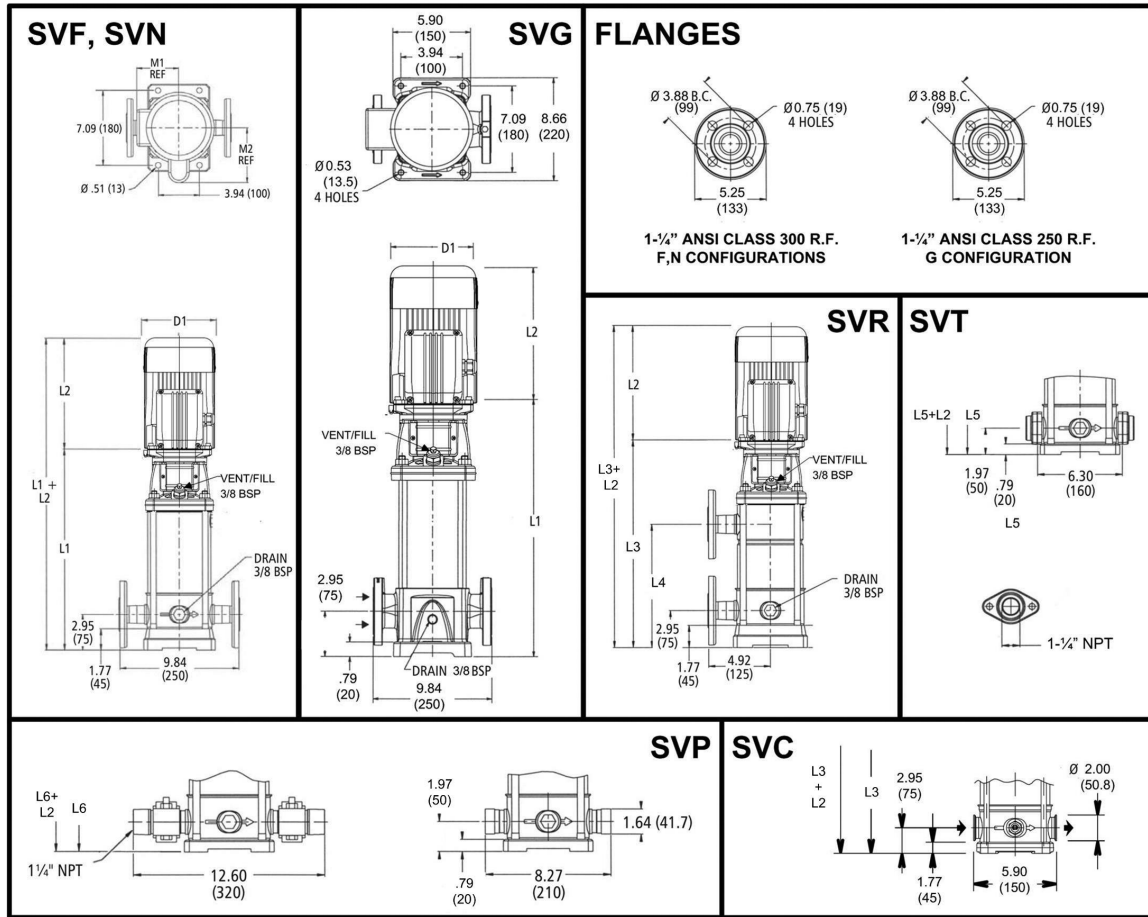
### Performance Curve

**3SV 3500 RPM**

**60 Hz**



**MINIMUM FLOW RATE: 3 GPM [.68 m³/hr]**



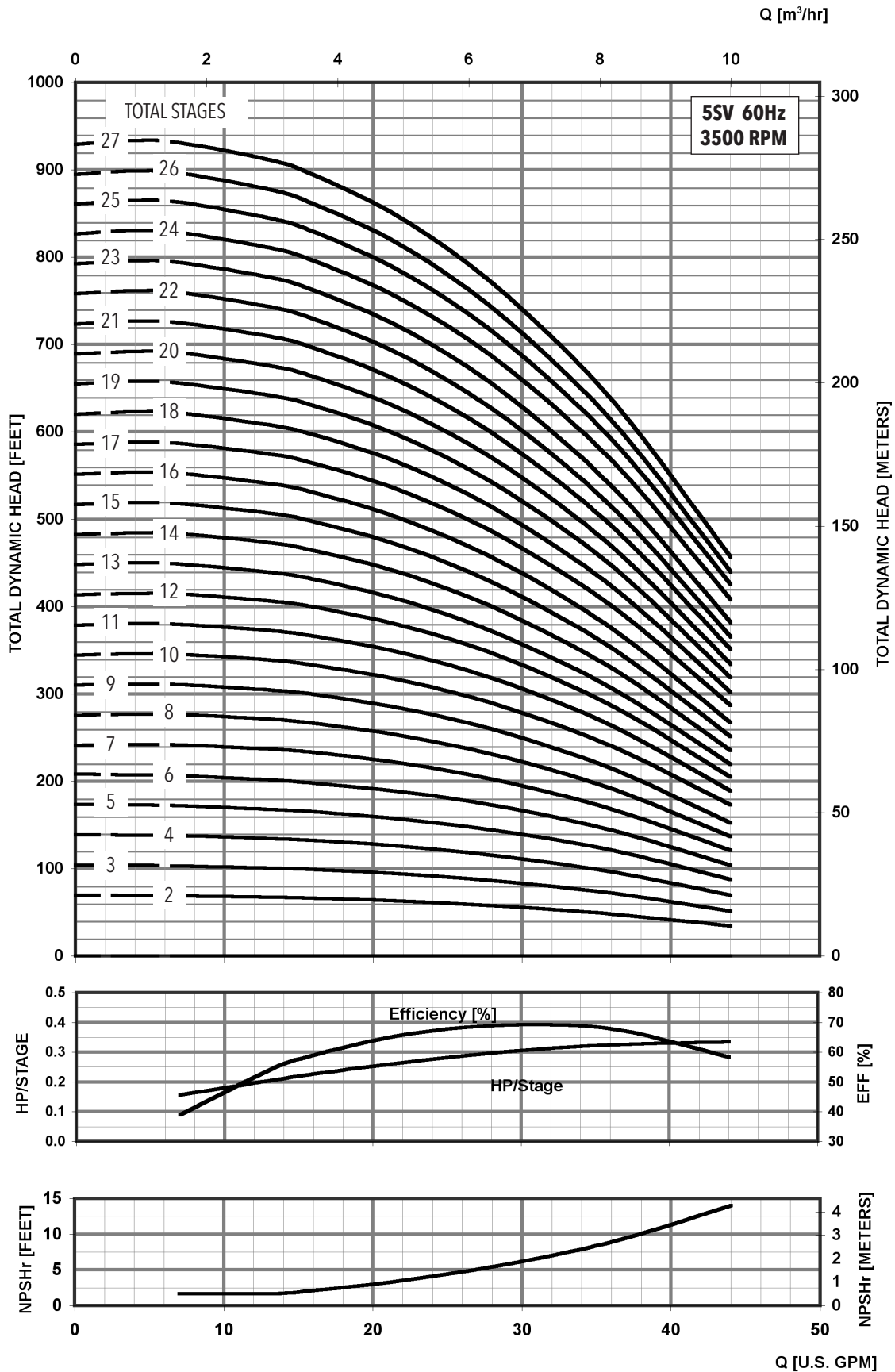
### 5SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

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

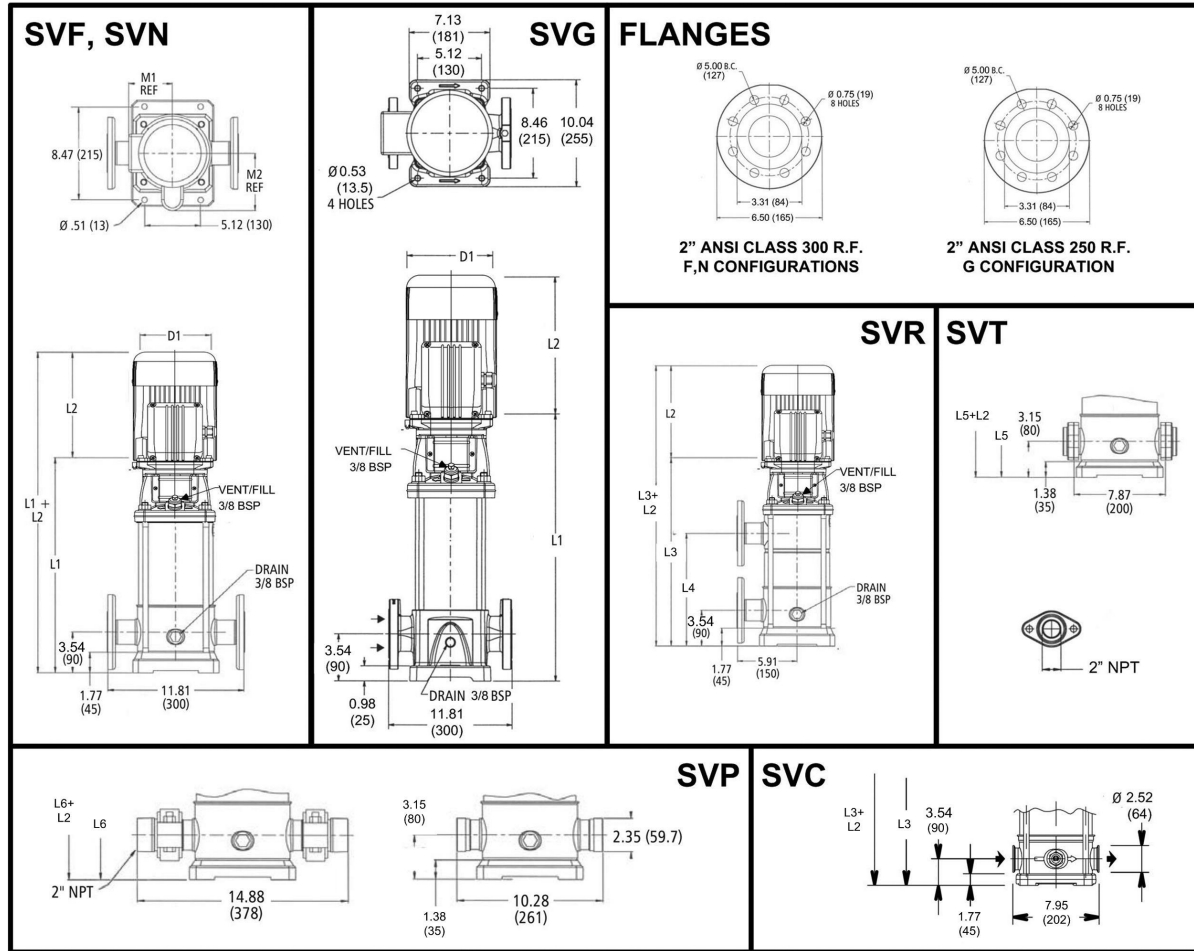
### Performance Curve

**5SV 3500 RPM**

**60 Hz**



**MINIMUM FLOW RATE: 7 GPM [1.6 m<sup>3</sup>/hr]**



All dimensions are in inches (mm).

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

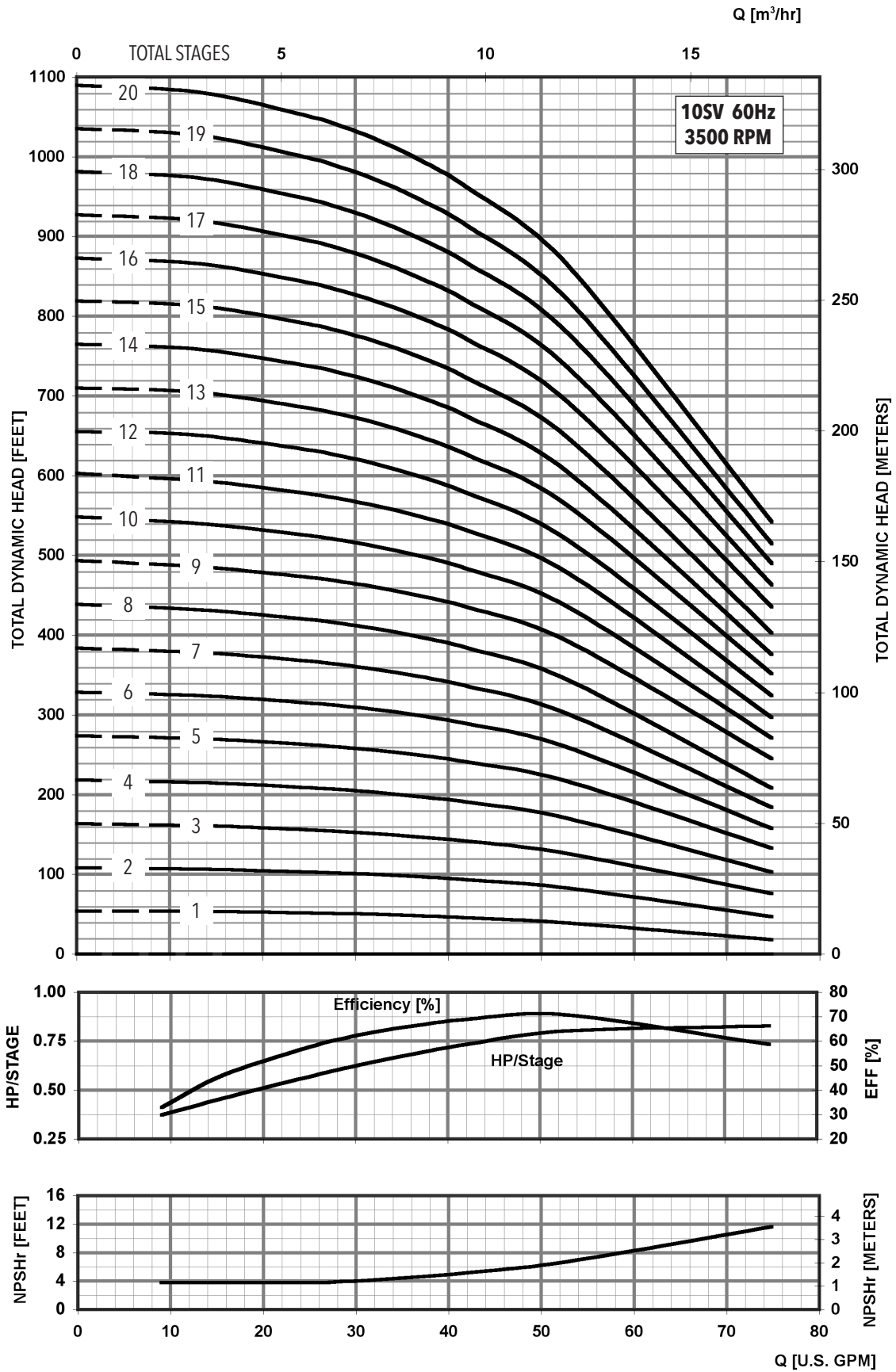
| Pump Type Stages | HP   | Motor      |         |        |         | Dimensions (in) |        |         |        |         |       |       |       |       |          |        |         |        |         | Weight (lbs.) |           |        |         |        |            |        |         |        |         |
|------------------|------|------------|---------|--------|---------|-----------------|--------|---------|--------|---------|-------|-------|-------|-------|----------|--------|---------|--------|---------|---------------|-----------|--------|---------|--------|------------|--------|---------|--------|---------|
|                  |      | NEMA Frame |         |        |         |                 |        |         |        |         |       |       |       |       |          |        |         |        |         | Motor         |           |        |         |        | Pump/Motor |        |         |        |         |
|                  |      | ODP 10     | TEFC 10 | ODP 30 | TEFC 30 | L1              | ODP 10 | TEFC 10 | ODP 30 | TEFC 30 | L3    | L4    | L5    | L6    | M (Ref.) | ODP 10 | TEFC 10 | ODP 30 | TEFC 30 | D2            | Pump Only | ODP 10 | TEFC 10 | ODP 30 | TEFC 30    | ODP 10 | TEFC 10 | ODP 30 | TEFC 30 |
| 10SV-01          | 0.75 | 56C        |         |        |         | 16.56           | 10.79  | 9.91    | 9.16   | 9.29    | -     | -     | 16.17 | 16.17 | 5.19     | 6.19   | 6.19    | 6.19   | 6.19    | 4.13          | 36        | 27     | 29      | 21     | 21         | 63     | 65      | 57     | 57      |
| 10SV-02          | 2    |            |         |        |         | 16.56           | 11.18  | 12.06   | 11.16  | 10.79   | -     | -     | 16.17 | 16.17 | 5.74     | 7.19   | 7.19    | 6.19   | 6.19    | 4.72          | 38        | 43     | 51      | 32     | 33         | 81     | 89      | 70     | 71      |
| 10SV-03          | 3    |            |         |        |         | 17.82           | 11.57  | 13.44   | 11.18  | 11.16   | -     | -     | 17.43 | 17.43 | 5.75     | 6.50   | 7.19    | 7.16   | 7.19    | 5.51          | 40        | 49     | 64      | 41     | 44         | 89     | 104     | 81     | 84      |
| 10SV-04          | 5    | 184TC      | 182TC   | 184TC  | 19.58   | 13.93           | 15.43  | 12.55   | 13.93  | 13.93   | -     | -     | 19.19 | 19.19 | 6.87     | 8.88   | 8.86    | 9.02   | 8.86    | 5.51          | 46        | 81     | 92      | 62     | 69         | 127    | 138     | 108    | 115     |
| 10SV-05          |      |            |         |        | 20.84   | 13.93           | 15.43  | 12.55   | 13.93  | 13.93   | 20.84 | 10.20 | 20.45 | 20.45 | 6.87     | 8.88   | 8.86    | 9.02   | 8.86    | 5.51          | 48        | 81     | 92      | 62     | 69         | 129    | 140     | 110    | 117     |
| 10SV-06          |      |            |         |        | 22.10   | 13.93           | 15.43  | 12.55   | 13.93  | 13.93   | 22.10 | 11.46 | 21.71 | 21.71 | 6.87     | 8.88   | 8.86    | 9.02   | 8.86    | 5.51          | 50        | 81     | 92      | 62     | 69         | 131    | 142     | 112    | 119     |
| 10SV-07          | 7.5  | 213TC      | 184TC   | 184TC  | 23.36   | 13.88           | 15.53  | 13.93   | 15.43  | 15.43   | 23.36 | 12.72 | 22.97 | 22.97 | 8.05     | 8.89   | 10.62   | 8.88   | 8.86    | 5.51          | 52        | 100    | 120     | 75     | 85         | 152    | 172     | 127    | 137     |
| 10SV-08          |      |            |         |        | 24.62   | 13.88           | 15.53  | 13.93   | 15.43  | 15.43   | 24.62 | 13.98 | 24.22 | 24.22 | 8.05     | 8.89   | 10.62   | 8.88   | 8.86    | 5.51          | 54        | 100    | 120     | 75     | 85         | 154    | 174     | 129    | 139     |
| 10SV-09          |      |            |         |        | 25.88   | 13.88           | 15.53  | 13.93   | 15.43  | 15.43   | 25.88 | 15.24 | 25.48 | 25.48 | 8.05     | 8.89   | 10.62   | 8.88   | 8.86    | 5.51          | 56        | 100    | 120     | 75     | 85         | 156    | 176     | 131    | 141     |
| 10SV-10          | 10   | 215TC      | 213TC   | 215TC  | 27.71   | 16.63           | 16.68  | 15.55   | 15.51  | 15.51   | 27.71 | 16.50 | -     | 27.31 | 8.77     | 10.62  | 10.18   | 10.18  | 10.28   | 5.51          | 66        | 132    | 145     | 107    | 122        | 198    | 211     | 173    | 188     |
| 10SV-11          |      |            |         |        | 28.97   | 16.63           | 16.68  | 15.55   | 15.51  | 15.51   | 28.97 | 17.76 | -     | 28.57 | 8.77     | 10.62  | 10.18   | 10.18  | 10.28   | 5.51          | 68        | 132    | 145     | 107    | 122        | 200    | 213     | 175    | 190     |
| 10SV-12          |      |            |         |        | 29.44   | 16.63           | 16.68  | 15.55   | 15.51  | 15.51   | 29.44 | 19.02 | -     | 29.05 | 8.77     | 10.62  | 10.18   | 10.18  | 10.28   | 5.51          | 70        | 132    | 145     | 107    | 122        | 202    | 215     | 177    | 192     |
| 10SV-13          | 15   | 254TC      | 256TC   | 254TC  | 31.51   | 16.63           | 16.68  | 15.55   | 15.51  | 15.51   | 31.51 | 20.28 | -     | 31.11 | 8.77     | 10.62  | 10.18   | 10.18  | 10.28   | 5.51          | 75        | 132    | 145     | 107    | 122        | 207    | 220     | 182    | 197     |
| 10SV-14          |      |            |         |        | 32.85   | 16.63           | 16.68  | 15.55   | 15.51  | 15.51   | 32.85 | 21.54 | -     | 32.45 | 8.77     | 10.62  | 10.18   | 10.18  | 10.28   | 5.51          | 77        | 132    | 145     | 107    | 122        | 209    | 222     | 184    | 199     |
| 10SV-15          |      |            |         |        | 34.66   | -               | -      | 15.55   | 16.57  | 16.57   | -     | -     | -     | 34.26 | 9.22     | -      | -       | 10.18  | 10.28   | 5.51          | 84        | -      | -       | 125    | 195        | -      | -       | 209    | 279     |
| 10SV-16          | 20   | 256TC      | 256TC   | 256TC  | 35.92   | -               | -      | 15.55   | 16.57  | 16.57   | -     | -     | -     | 35.52 | 9.22     | -      | -       | 10.18  | 10.28   | 5.51          | 86        | -      | -       | 125    | 195        | -      | -       | 211    | 281     |
| 10SV-17          |      |            |         |        | 37.18   | -               | -      | 15.55   | 16.57  | 16.57   | -     | -     | -     | 36.78 | 9.22     | -      | -       | 10.18  | 10.28   | 5.51          | 88        | -      | -       | 125    | 195        | -      | -       | 213    | 283     |
| 10SV-18          |      |            |         |        | 38.44   | -               | -      | 15.55   | 16.57  | 16.57   | -     | -     | -     | 38.04 | 9.22     | -      | -       | 10.18  | 10.28   | 5.51          | 90        | -      | -       | 125    | 195        | -      | -       | 215    | 285     |
| 10SV-19          | 20   | 256TC      | 256TC   | 256TC  | 39.78   | -               | -      | 15.55   | 16.57  | 16.57   | -     | -     | -     | 39.38 | 9.22     | -      | -       | 10.18  | 10.28   | 5.51          | 92        | -      | -       | 125    | 195        | -      | -       | 217    | 287     |
| 10SV-20          |      |            |         |        | 40.96   | -               | -      | 16.66   | 20.08  | 20.08   | -     | -     | -     | 40.56 | 9.5      | -      | -       | 10.18  | 13.13   | 5.51          | 94        | -      | -       | 144    | 285        | -      | -       | 238    | 379     |

\* Please refer to motor table for frame size

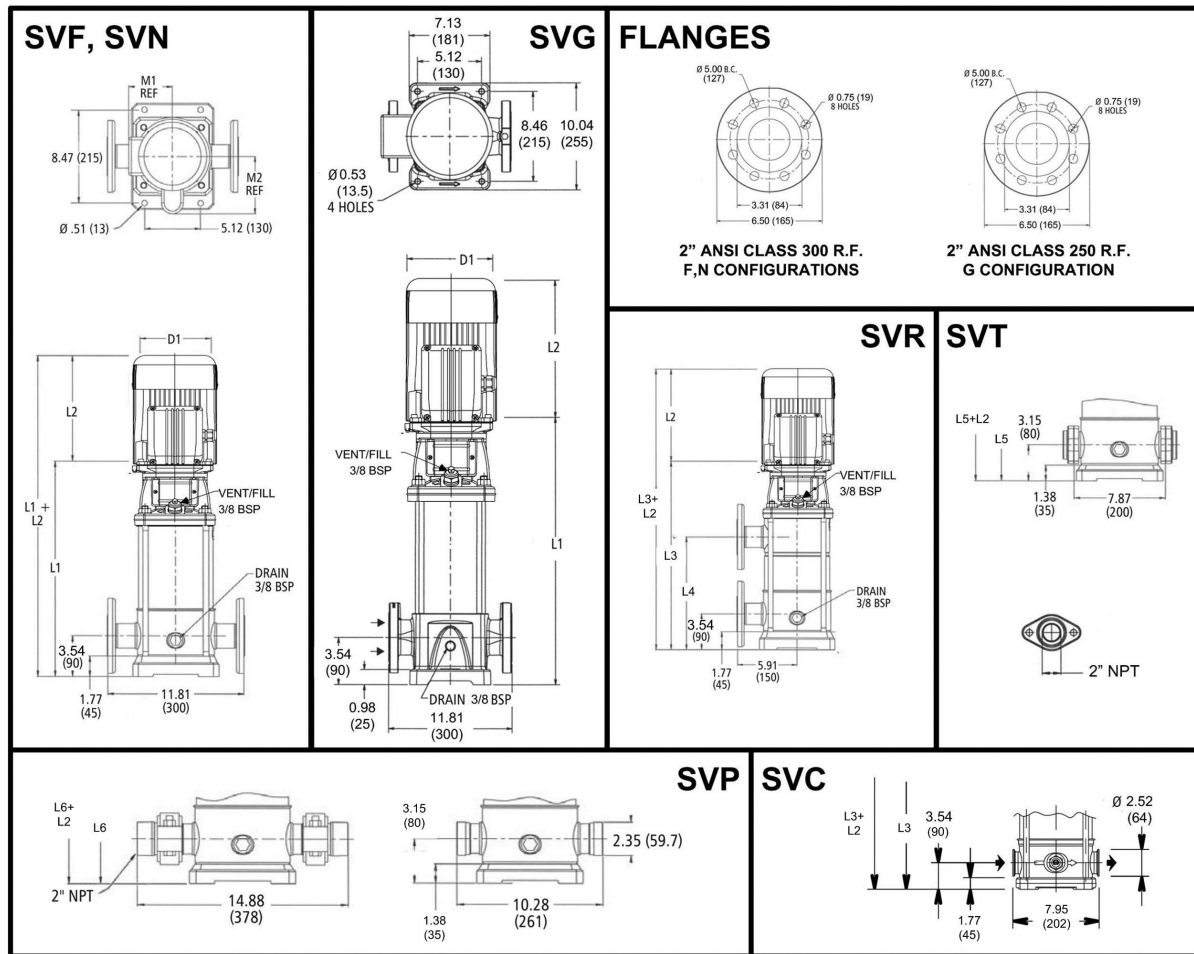
### Performance Curve

**10SV 3500 RPM**

**60 Hz**



**MINIMUM FLOW RATE: 9 GPM [2 m³/hr]**



All dimensions are in inches (mm).

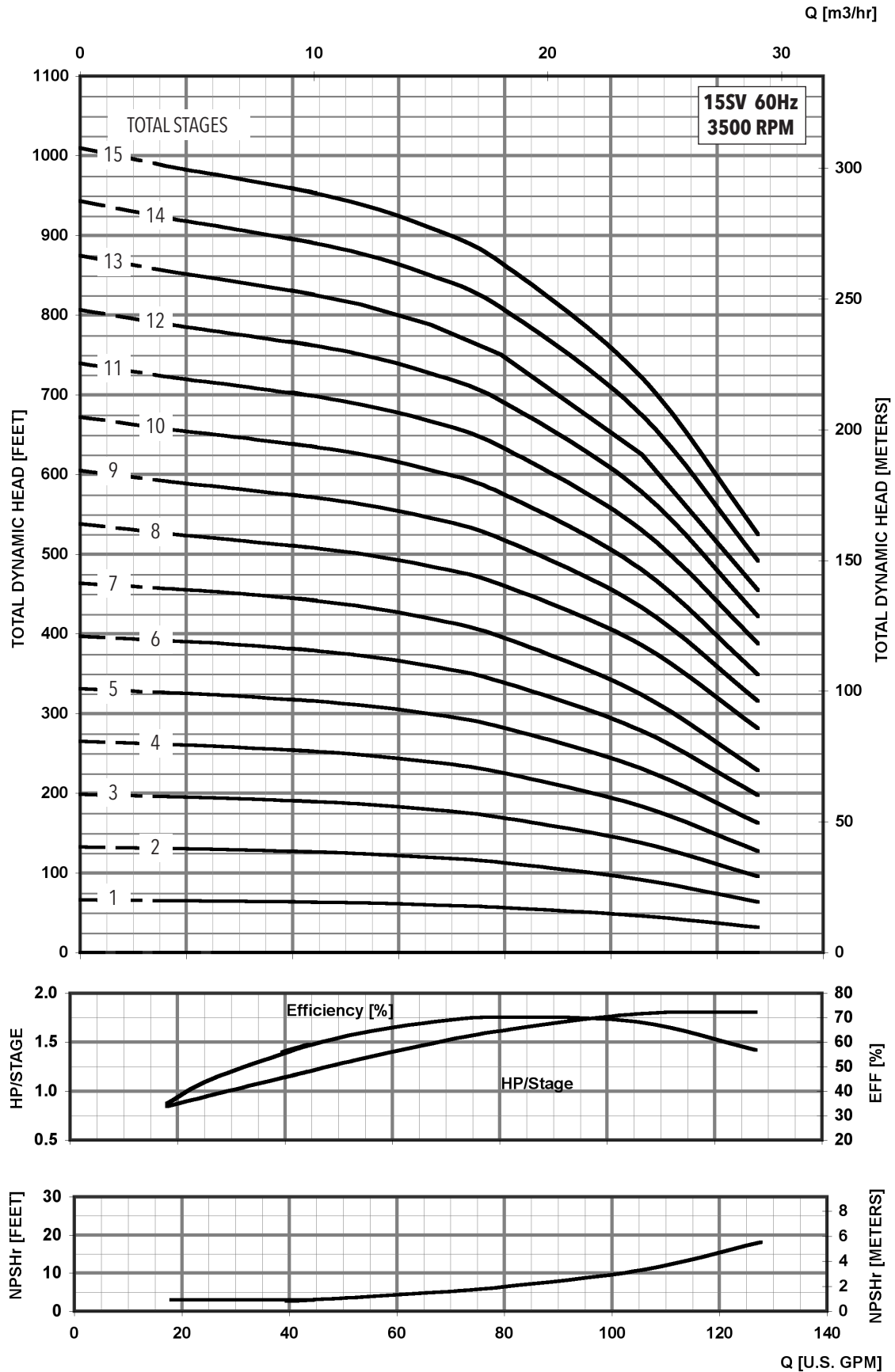
### 15SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

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

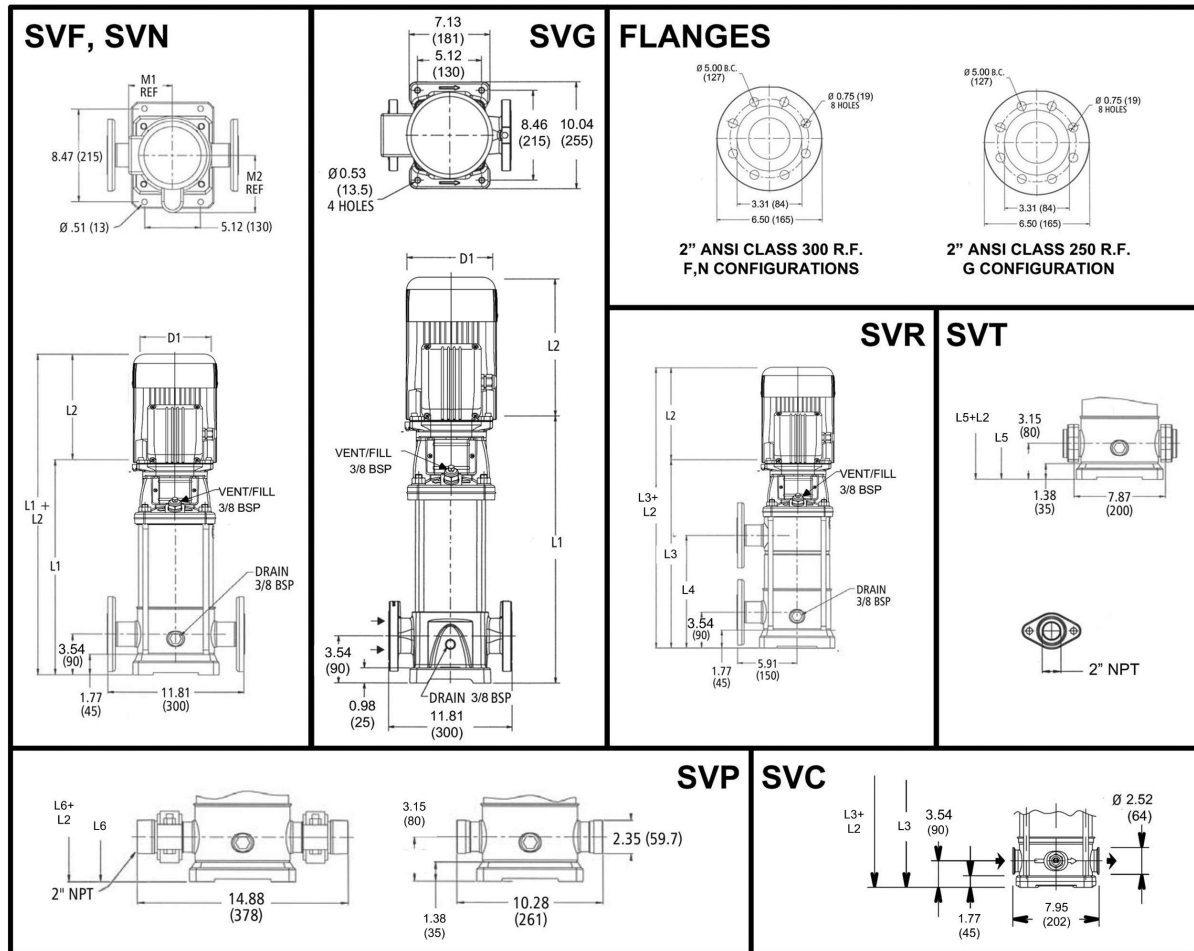
### Performance Curve

**15SV 3500 RPM**

**60 Hz**



**MINIMUM FLOW RATE: 18 GPM [4.1 m<sup>3</sup>/hr]**



All dimensions are in inches (mm).

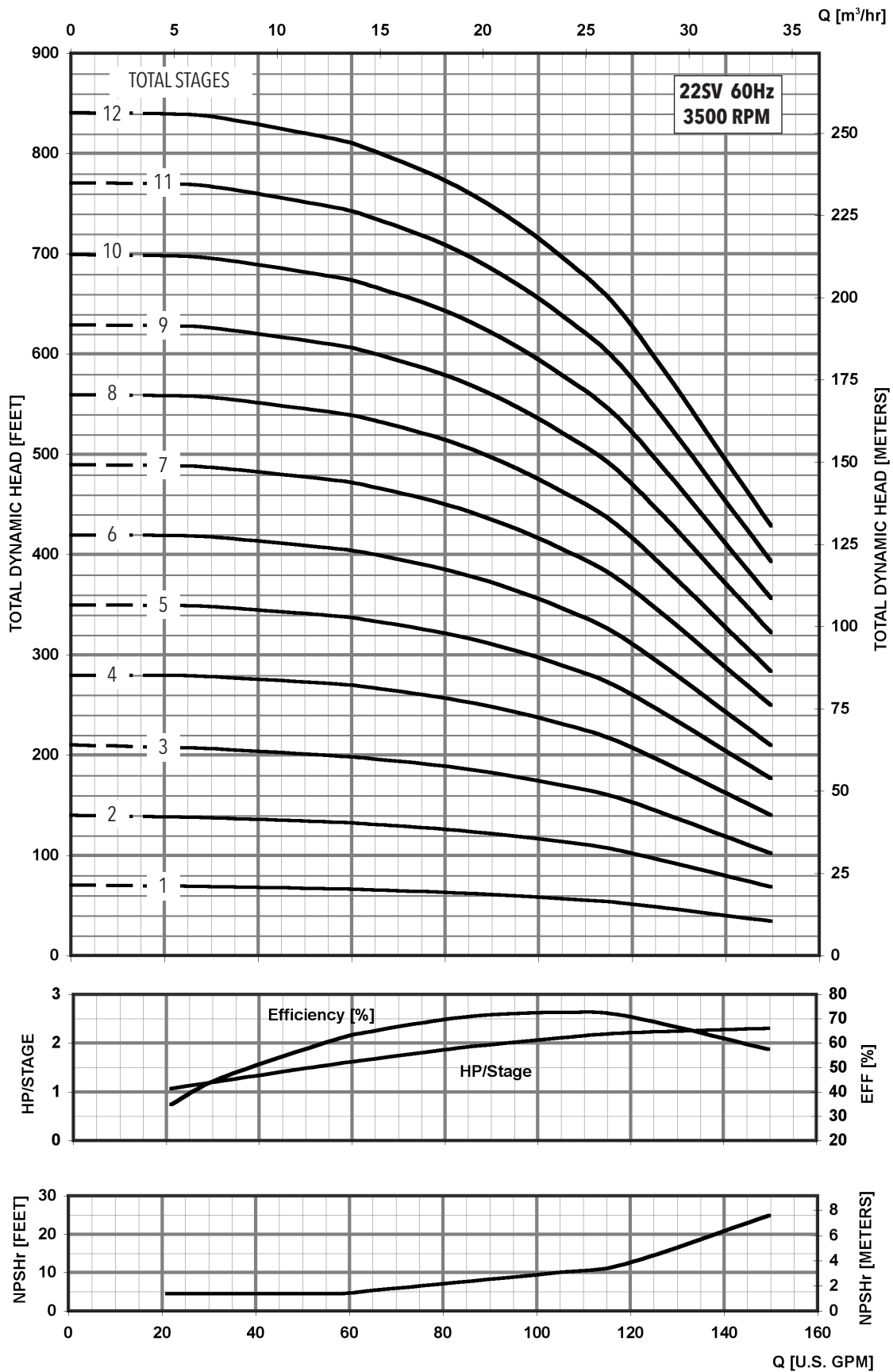
### 22SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

| Pump<br>Type<br>Stages | Motor |            |            |           |            | Dimensions (in) |           |            |           |            |           |       |       |       |       |             |            |           |            |           | Weight (lbs.) |     |              |           |            |           |            |           |            |           |            |           |            |
|------------------------|-------|------------|------------|-----------|------------|-----------------|-----------|------------|-----------|------------|-----------|-------|-------|-------|-------|-------------|------------|-----------|------------|-----------|---------------|-----|--------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
|                        | HP    | NEMA Frame |            |           |            | L1              | L2        |            |           |            |           | L3    | L4    | L5    | L6    | M<br>(Ref.) | D1 (max.)  |           |            |           |               | D2  | Pump<br>Only | Motor     |            |           |            |           | Pump/Motor |           |            |           |            |
|                        |       | ODP<br>10  | TEFC<br>10 | ODP<br>30 | TEFC<br>30 |                 | ODP<br>10 | TEFC<br>10 | ODP<br>30 | TEFC<br>30 | ODP<br>10 |       |       |       |       |             | TEFC<br>10 | ODP<br>30 | TEFC<br>30 | ODP<br>10 | TEFC<br>10    |     |              | ODP<br>30 | TEFC<br>30 | ODP<br>10 | TEFC<br>10 | ODP<br>30 | TEFC<br>30 | ODP<br>10 | TEFC<br>10 | ODP<br>30 | TEFC<br>30 |
|                        |       |            |            |           |            |                 |           |            |           |            |           |       |       |       |       |             |            |           |            |           |               |     |              |           |            |           |            |           |            |           |            |           |            |
| 22SV-01                | 3     | 56C        |            |           |            | 18.61           | 11.57     | 13.44      | 11.18     | 11.16      | -         | -     | 18.21 | 18.21 | 5.75  | 6.50        | 7.19       | 7.16      | 7.19       | 5.51      | 39            | 49  | 64           | 41        | 44         | 88        | 103        | 80        | 83         |           |            |           |            |
| 22SV-02                | 5     | 184TC      | 182TC      | 184TC     |            | 18.71           | 13.93     | 15.43      | 12.55     | 13.93      | -         | -     | 18.32 | 18.32 | 6.87  | 8.88        | 8.86       | 9.02      | 8.86       | 5.51      | 45            | 81  | 92           | 62        | 69         | 126       | 137        | 107       | 114        |           |            |           |            |
| 22SV-03                | 7.5   | 213TC      |            | 184TC     |            | 20.60           | 13.88     | 15.53      | 13.93     | 15.43      | -         | -     | 20.21 | 20.21 | 8.05  | 8.89        | 10.62      | 8.88      | 8.86       | 5.51      | 48            | 100 | 120          | 75        | 85         | 148       | 168        | 123       | 133        |           |            |           |            |
| 22SV-04                | 10    | 215TC      | 213TC      | 215TC     |            | 23.06           | 16.63     | 16.68      | 15.55     | 15.51      | 23.06     | 11.85 | 22.67 | 22.67 | 8.77  | 10.62       | 10.18      | 10.18     | 10.28      | 5.51      | 58            | 132 | 145          | 107       | 122        | 190       | 203        | 165       | 180        |           |            |           |            |
| 22SV-05                | 15    |            | 215TC      | 254TC     |            | 25.60           | -         | -          | 15.55     | 16.57      | 25.60     | 13.74 | 25.21 | 25.21 | 9.22  | -           | -          | 10.18     | 10.28      | 5.51      | 66            | -   | -            | 125       | 195        | -         | -          | 191       | 261        |           |            |           |            |
| 22SV-06                |       |            |            |           |            | 27.49           | -         | -          | 15.55     | 16.57      | 27.49     | 15.63 | 27.10 | 27.10 | 9.22  | -           | -          | 10.18     | 10.28      | 5.51      | 69            | -   | -            | 125       | 195        | -         | -          | 194       | 264        |           |            |           |            |
| 22SV-07                |       |            |            |           |            | 29.38           | -         | -          | 15.55     | 16.57      | 29.38     | 17.52 | 28.99 | 28.99 | 9.22  | -           | -          | 10.18     | 10.28      | 5.51      | 72            | -   | -            | 125       | 195        | -         | -          | 197       | 267        |           |            |           |            |
| 22SV-08                | 20    |            |            | 256TC     |            | 31.27           | -         | -          | 16.66     | 20.08      | 31.27     | 19.41 | -     | 30.88 | 9.50  | -           | -          | 10.18     | 13.13      | 5.51      | 75            | -   | -            | 144       | 285        | -         | -          | 219       | 360        |           |            |           |            |
| 22SV-09                |       |            |            |           |            | 33.16           | -         | -          | 16.66     | 20.08      | 33.16     | 21.30 | -     | 32.77 | 9.50  | -           | -          | 10.18     | 13.13      | 5.51      | 77            | -   | -            | 144       | 285        | -         | -          | 221       | 362        |           |            |           |            |
| 22SV-10                | 25    |            | 254TC      | 284TC     |            | 35.68           | -         | -          | 21.44     | 19.54      | 35.68     | 23.19 | -     | 35.29 | 12.94 | -           | -          | 11.63     | 12.94      | 5.51      | 89            | -   | -            | 185       | 283        | -         | -          | 274       | 372        |           |            |           |            |
| 22SV-11                |       |            |            |           |            | 37.57           | -         | -          | 21.44     | 19.54      | 37.57     | 25.08 | -     | 37.18 | 12.94 | -           | -          | 11.63     | 12.94      | 5.51      | 92            | -   | -            | 185       | 283        | -         | -          | 277       | 375        |           |            |           |            |
| 22SV-12                |       |            |            |           |            | 39.46           | -         | -          | 21.44     | 19.54      | -         | -     | -     | 39.07 | 12.94 | -           | -          | 11.63     | 12.94      | 5.51      | 95            | -   | -            | 185       | 283        | -         | -          | 280       | 378        |           |            |           |            |

### Performance Curve

**22SV 3500 RPM**

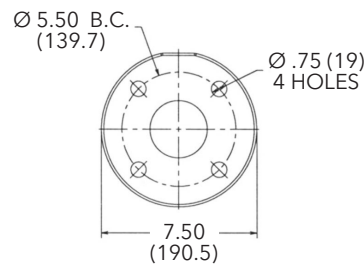
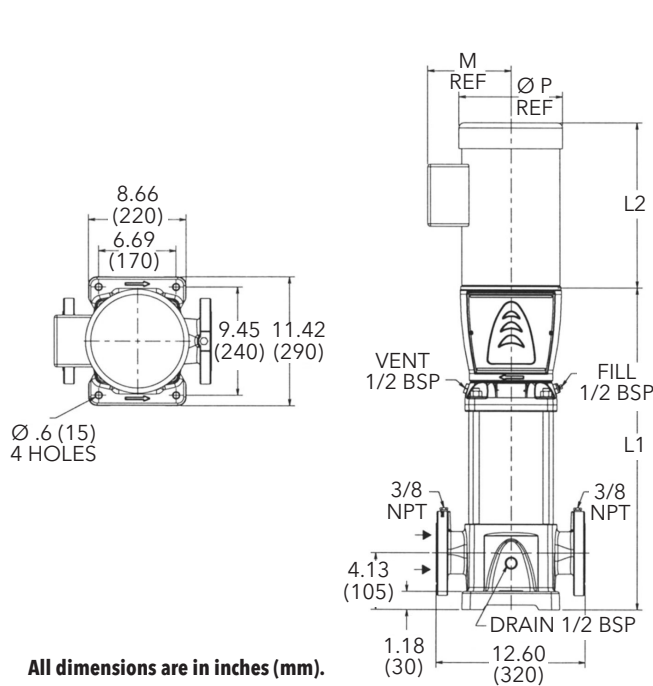
**60 Hz**



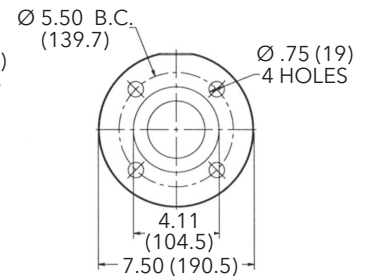
### Dimensions and Weights

### 33SV Series 3500 RPM

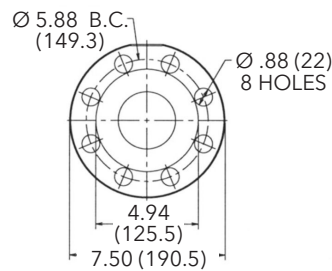
60 Hz



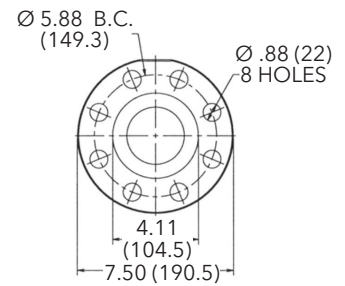
**Cast Iron**  
**2 1/2" Class 125 F.F.**



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



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



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

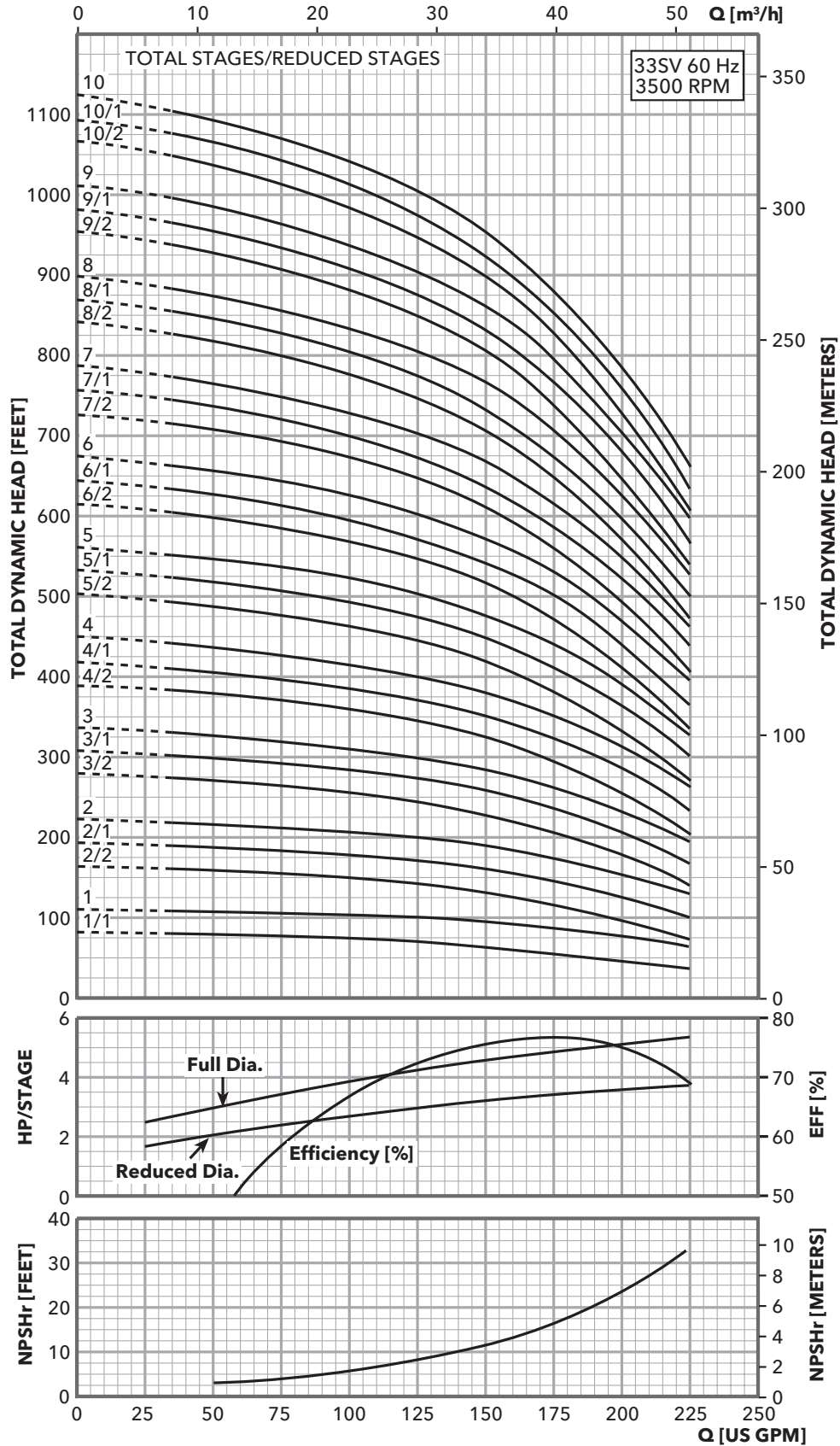
### 33SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

| Pump<br>Type<br>Stages | Motor |            |            |             |            | Dimensions (in) |           |            |           |            |          |           |            |           |            | Weight (lbs.) |              |           |            |           |            |            |            |           |            |
|------------------------|-------|------------|------------|-------------|------------|-----------------|-----------|------------|-----------|------------|----------|-----------|------------|-----------|------------|---------------|--------------|-----------|------------|-----------|------------|------------|------------|-----------|------------|
|                        | HP    | NEMA Frame |            |             |            | L1              | L2        |            |           |            | M (Ref.) | D1 (max.) |            |           |            | D2            | Pump<br>Only | Motor     |            |           |            | Pump/Motor |            |           |            |
|                        |       | ODP<br>1Ø  | TEFC<br>1Ø | ODP<br>3Ø   | TEFC<br>3Ø |                 | ODP<br>1Ø | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |          | ODP<br>1Ø | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |               |              | ODP<br>1Ø | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø | ODP<br>1Ø  | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>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       |            | 35.40           | -         | -          | 21.75     | 19.54      | 12.21    | -         | -          | 13.25     | 12.94      | 5.51          | 194          | -         | -          | 296       | 382        | -          | -          | 490       | 576        |
| 33SV-6/1               |       | -          | -          |             |            | 35.40           | -         | -          | 21.75     | 19.54      | 12.21    | -         | -          | 13.25     | 12.94      | 5.51          | 194          | -         | -          | 296       | 382        | -          | -          | 490       | 576        |
| 33SV-6                 |       | -          | -          |             |            | 35.40           | -         | -          | 21.75     | 19.54      | 12.21    | -         | -          | 13.25     | 12.94      | 5.51          | 194          | -         | -          | 296       | 382        | -          | -          | 490       | 576        |
| 33SV-7/2               | 40    | -          | -          | 286TC       |            | 38.55           | -         | -          | 21.75     | 23.18      | 13.11    | -         | -          | 13.25     | 15.56      | 5.51          | 204          | -         | -          | 315       | 446        | -          | -          | 519       | 650        |
| 33SV-7/1               |       | -          | -          |             |            | 38.55           | -         | -          | 21.75     | 23.18      | 13.11    | -         | -          | 13.25     | 15.56      | 5.51          | 204          | -         | -          | 315       | 446        | -          | -          | 519       | 650        |
| 33SV-7                 |       | -          | -          |             |            | 38.55           | -         | -          | 21.75     | 23.18      | 13.11    | -         | -          | 13.25     | 15.56      | 5.51          | 204          | -         | -          | 315       | 446        | -          | -          | 519       | 650        |
| 33SV-8/2               |       | -          | -          |             |            | 41.30           | -         | -          | 21.75     | 23.18      | 13.11    | -         | -          | 13.25     | 15.56      | 5.51          | 221          | -         | -          | 315       | 446        | -          | -          | 536       | 667        |
| 33SV-8/1               |       | -          | -          |             |            | 41.30           | -         | -          | 21.75     | 23.18      | 13.11    | -         | -          | 13.25     | 15.56      | 5.51          | 229          | -         | -          | 315       | 446        | -          | -          | 544       | 675        |
| 33SV-8                 |       | -          | -          |             |            | 41.30           | -         | -          | 21.75     | 23.18      | 13.11    | -         | -          | 13.25     | 15.56      | 5.51          | 229          | -         | -          | 315       | 446        | -          | -          | 544       | 675        |
| 33SV-9/2               | 50    | -          | -          | 324TSC      | 326TSC     | 44.25           | -         | -          | 22.75     | 23.19      | 12.21    | -         | -          | 13.03     | 15.69      | 5.51          | 238          | -         | -          | 320       | 450        | -          | -          | 558       | 688        |
| 33SV-9/1               |       | -          | -          |             |            | 44.25           | -         | -          | 22.75     | 23.19      | 12.21    | -         | -          | 13.03     | 15.69      | 5.51          | 238          | -         | -          | 320       | 450        | -          | -          | 558       | 688        |
| 33SV-9                 |       | -          | -          |             |            | 44.25           | -         | -          | 22.75     | 23.19      | 12.21    | -         | -          | 13.03     | 15.69      | 5.51          | 238          | -         | -          | 320       | 450        | -          | -          | 558       | 688        |
| 33SV-10/2              |       | -          | -          |             |            | 47.20           | -         | -          | 22.75     | 23.19      | 12.21    | -         | -          | 13.03     | 15.69      | 5.51          | 249          | -         | -          | 320       | 450        | -          | -          | 569       | 699        |
| 33SV-10/1              |       | -          | -          |             |            | 47.20           | -         | -          | 22.75     | 23.19      | 12.21    | -         | -          | 13.03     | 15.69      | 5.51          | 249          | -         | -          | 320       | 450        | -          | -          | 569       | 699        |
| 33SV-10                |       | -          | -          |             |            | 47.20           | -         | -          | 22.75     | 23.19      | 12.21    | -         | -          | 13.03     | 15.69      | 5.51          | 249          | -         | -          | 320       | 450        | -          | -          | 569       | 699        |

### Performance Curve

**33SV 3500 RPM**

**60 Hz**

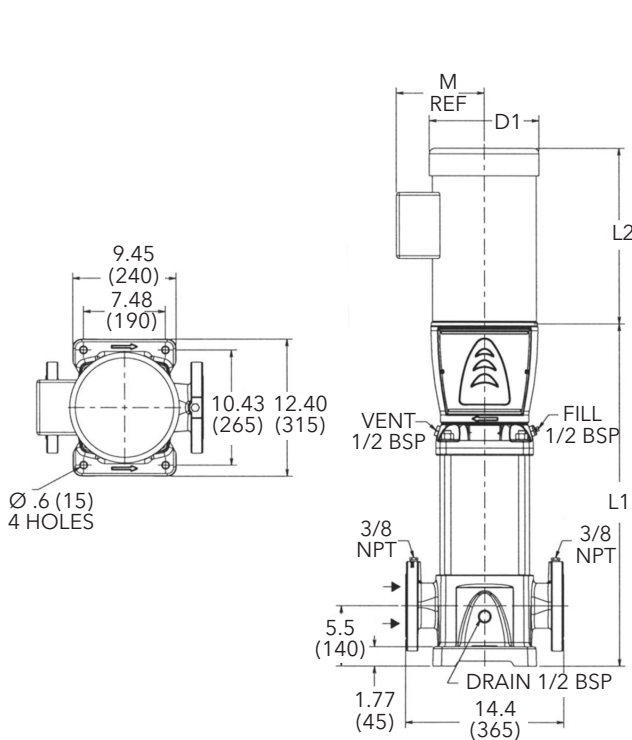


**MINIMUM FLOW RATE: 35 GPM [ $8 m^3/hr$ ]**

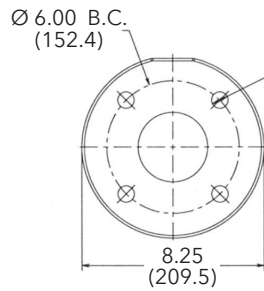
### Dimensions and Weights

### 46SV Series 3500 RPM

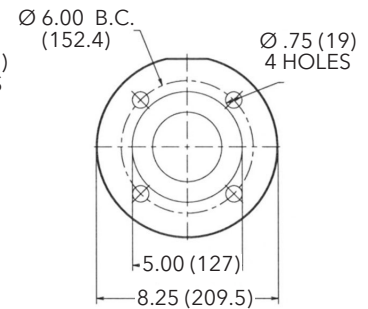
60 Hz



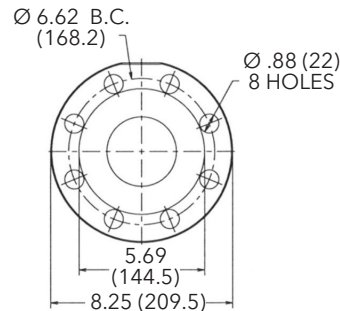
All dimensions are in inches (mm).



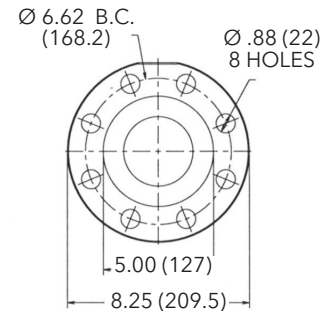
**Cast Iron**  
**3" Class 125 F.F.**



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



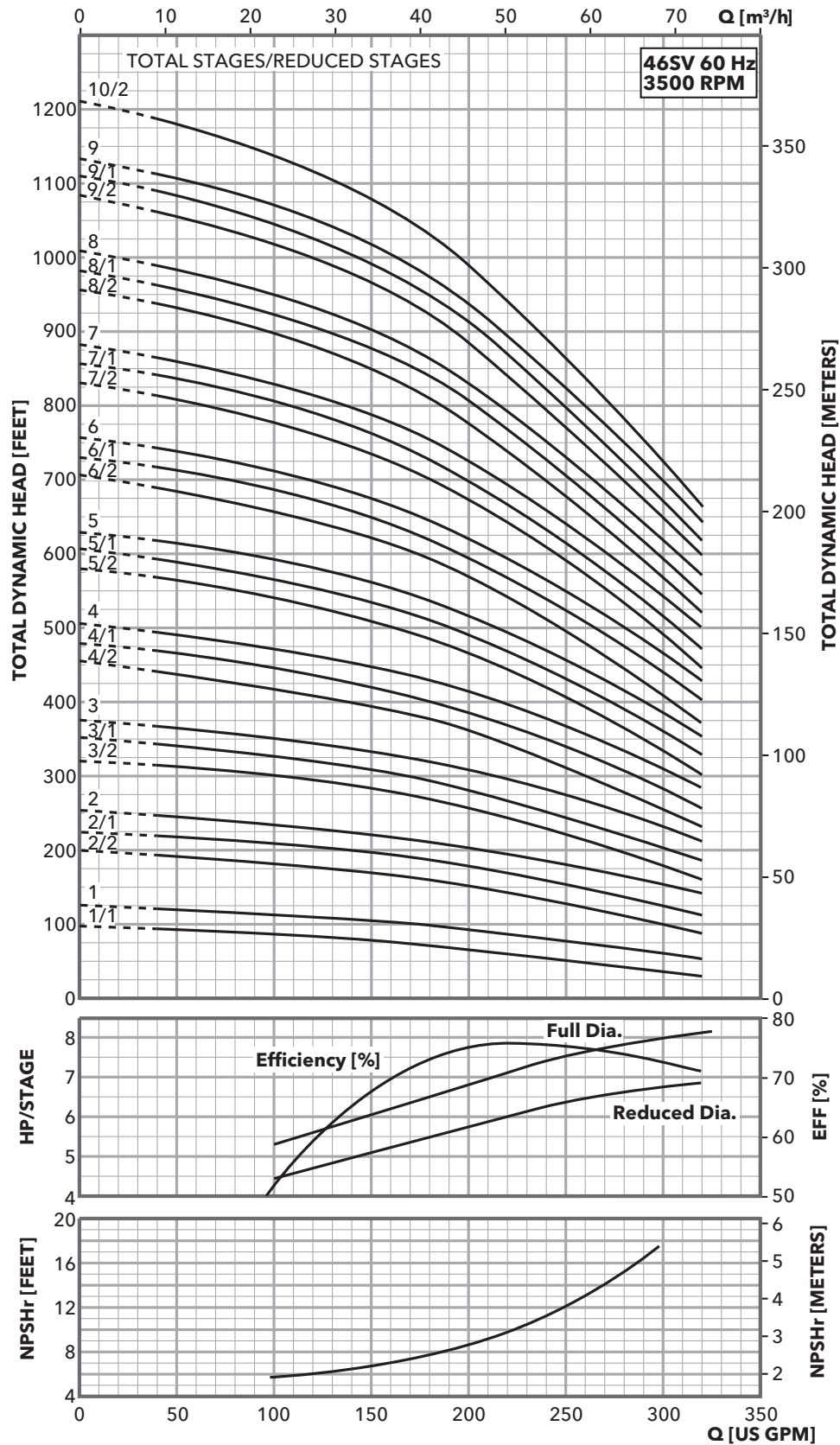
**Cast Iron**  
**3" Class 250 R.F.**



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

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

| Pump Type Stages | Motor |            |         |        |         | Dimensions (in) |        |         |        |         |          |           |         |        |         | Weight (lbs.) |           |        |         |        |         |            |         |        |         |
|------------------|-------|------------|---------|--------|---------|-----------------|--------|---------|--------|---------|----------|-----------|---------|--------|---------|---------------|-----------|--------|---------|--------|---------|------------|---------|--------|---------|
|                  | HP    | NEMA Frame |         |        |         | L1              | L2     |         |        |         | M (Ref.) | D1 (max.) |         |        |         | D2            | Pump Only | Motor  |         |        |         | Pump/Motor |         |        |         |
|                  |       | ODP 10     | TEFC 10 | ODP 30 | TEFC 30 |                 | ODP 10 | TEFC 10 | ODP 30 | TEFC 30 |          | ODP 10    | TEFC 10 | ODP 30 | TEFC 30 |               |           | ODP 10 | TEFC 10 | ODP 30 | TEFC 30 | ODP 10     | TEFC 10 | ODP 30 | TEFC 30 |
| 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    | -          | -       | -      | -       | 49.81           | -      | -       | 24.38  | 30.69   | 14.95    | -         | -       | 15.13  | 19.25   | 5.51          | 264       | -      | -       | 447    | 747     | -          | -       | 711    | 1011    |



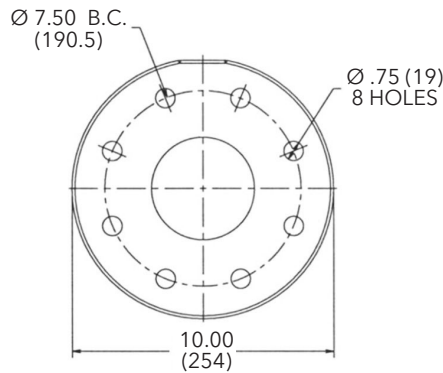
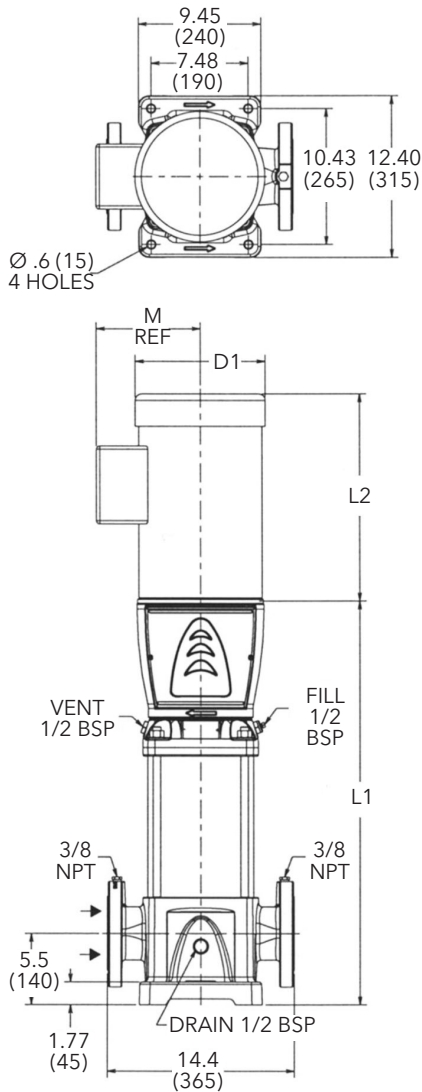
**MINIMUM FLOW RATE: 40 GPM [9 m³/hr]**

## Commercial Water

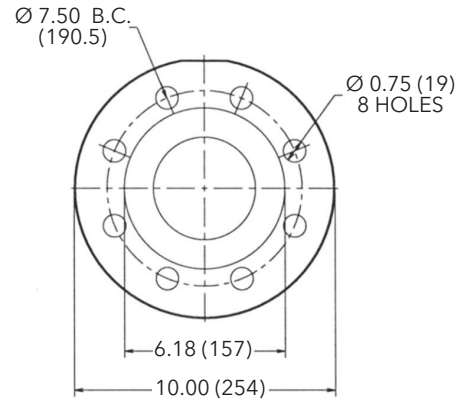
### Dimensions and Weights

### 66SV Series 3500 RPM

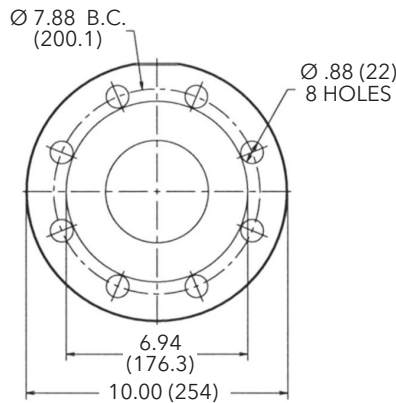
60 Hz



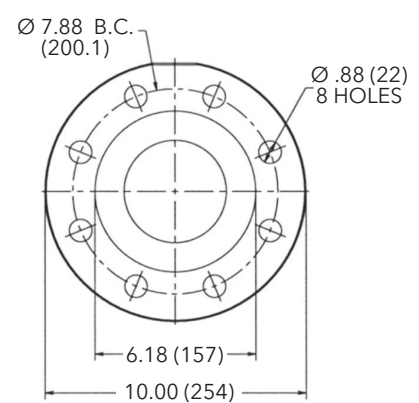
**Cast Iron  
4" Class 125 F.F.**



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



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

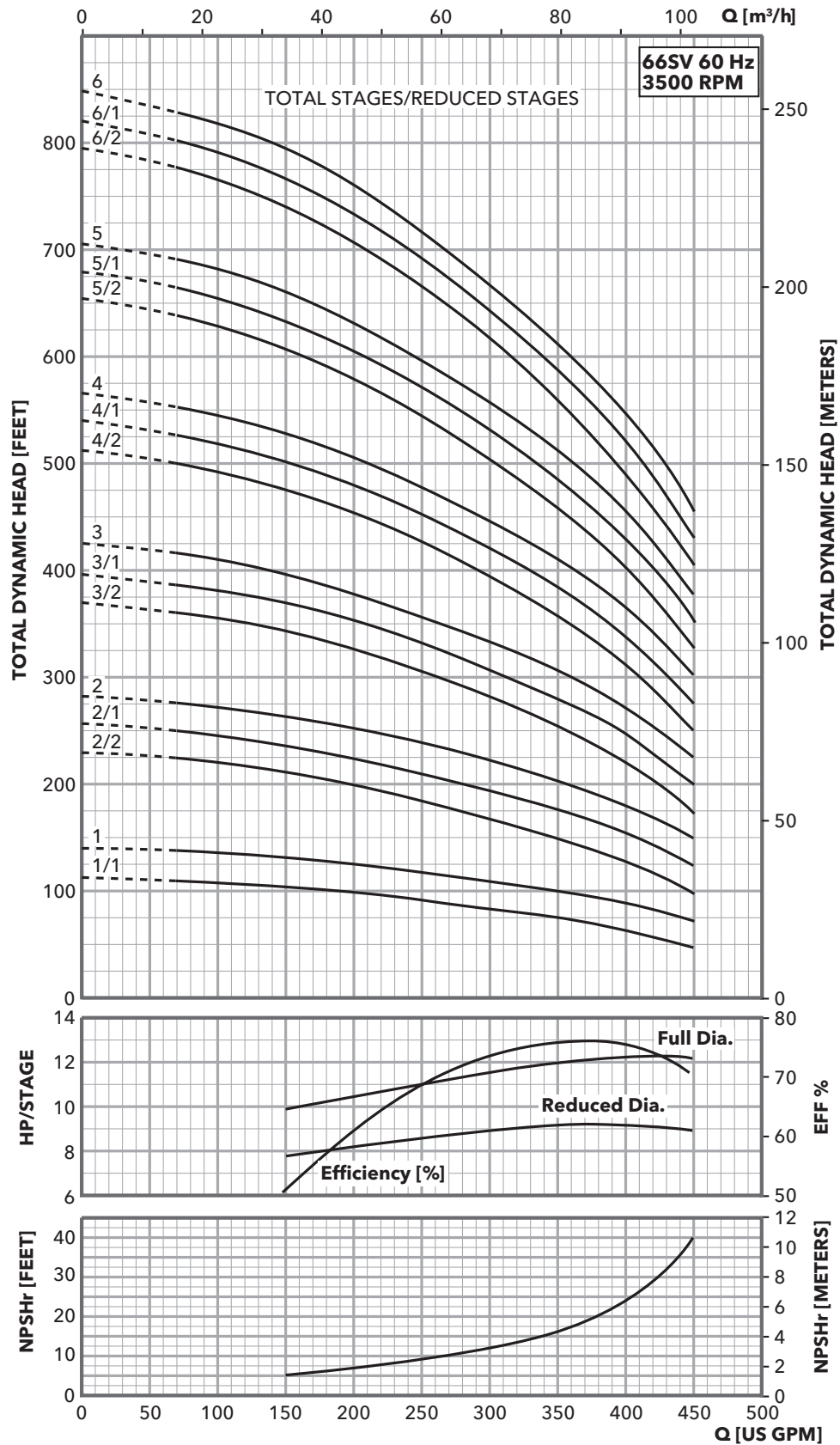


**316SS  
4" Class 300 R.F.**

All dimensions are in inches (mm).

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

| Pump<br>Type<br>Stages | HP | Motor      |            |           |            | Dimensions (in) |           |            |           |            |             |           |            |           |            |      |              | Weight (lbs.) |            |           |            |            |            |           |            |
|------------------------|----|------------|------------|-----------|------------|-----------------|-----------|------------|-----------|------------|-------------|-----------|------------|-----------|------------|------|--------------|---------------|------------|-----------|------------|------------|------------|-----------|------------|
|                        |    | NEMA Frame |            |           |            | L1              | L2        |            |           |            | M<br>(Ref.) | D1 (max.) |            |           |            | D2   | Pump<br>Only | Motor         |            |           |            | Pump/Motor |            |           |            |
|                        |    | ODP<br>1Ø  | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |                 | ODP<br>1Ø | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |             | ODP<br>1Ø | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |      |              | ODP<br>1Ø     | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø | ODP<br>1Ø  | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>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               | 20 | -          | -          | -         | -          | 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               | 30 | -          | -          |           |            | 31.81           | -         | -          | 20.12     | 23.38      | 13.12       | -         | -          | 13.25     | 15.31      | 5.51 | 223          | -             | -          | 325       | 445        | -          | -          | 548       | 668        |
| 66SV-3                 | 40 | -          | -          |           |            | 31.81           | -         | -          | 20.12     | 23.38      | 13.12       | -         | -          | 13.25     | 15.31      | 5.51 | 223          | -             | -          | 328       | 448        | -          | -          | 551       | 671        |
| 66SV-4/2               | 40 | -          | -          | 326TSC    | 326TSC     | 35.38           | -         | -          | 20.12     | 23.38      | 13.12       | -         | -          | 13.25     | 15.31      | 5.51 | 234          | -             | -          | 328       | 448        | -          | -          | 562       | 682        |
| 66SV-4/1               | 50 | -          | -          |           |            | 34.88           | -         | -          | 22.50     | 23.38      | 13.12       | -         | -          | 13.25     | 15.31      | 5.51 | 242          | -             | -          | 382       | 592        | -          | -          | 624       | 834        |
| 66SV-4                 | 50 | -          | -          |           |            | 34.88           | -         | -          | 22.50     | 23.38      | 13.12       | -         | -          | 13.25     | 15.31      | 5.51 | 242          | -             | -          | 382       | 592        | -          | -          | 624       | 834        |
| 66SV-5/2               | 60 | -          | -          | 326TSC    | 364TSC     | 38.44           | -         | -          | 22.50     | 23.38      | 13.12       | -         | -          | 13.25     | 15.31      | 5.51 | 252          | -             | -          | 382       | 592        | -          | -          | 634       | 844        |
| 66SV-5/1               | 60 | -          | -          |           |            | 38.44           | -         | -          | 22.50     | 27.22      | 14.96       | -         | -          | 13.25     | 19.00      | 5.51 | 252          | -             | -          | 474       | 736        | -          | -          | 726       | 988        |
| 66SV-5                 | 60 | -          | -          |           |            | 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               | 75 | -          | -          |           |            | 41.94           | -         | -          | 24.12     | 27.22      | 14.96       | -         | -          | 15.12     | 19.00      | 5.51 | 266          | -             | -          | 500       | 762        | -          | -          | 766       | 1028       |
| 66SV-6                 | 75 | -          | -          |           |            | 41.94           | -         | -          | 24.12     | 27.22      | 14.96       | -         | -          | 15.12     | 19.00      | 5.51 | 266          | -             | -          | 500       | 762        | -          | -          | 766       | 1028       |

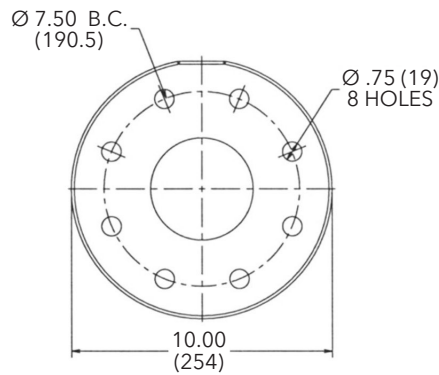
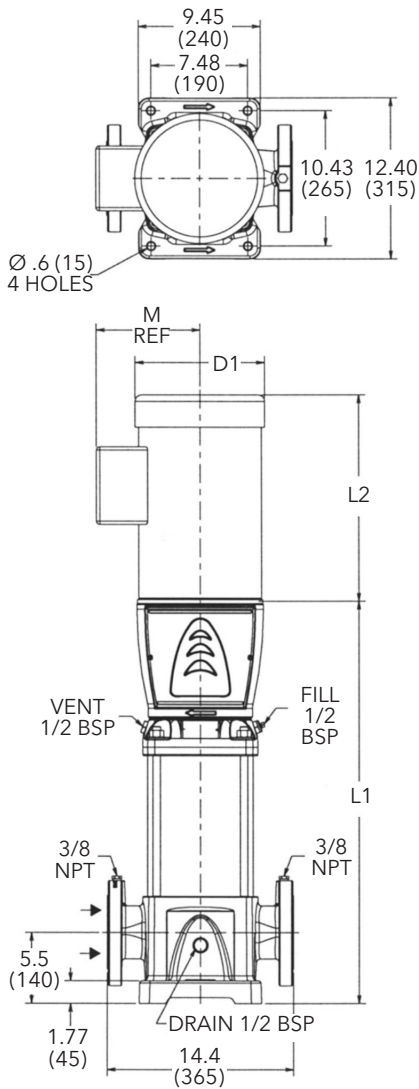


## Commercial Water

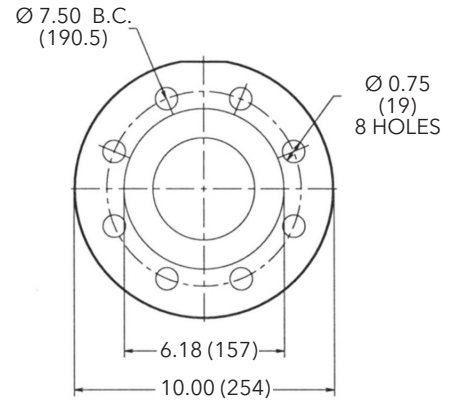
### Dimensions and Weights

### 92SV Series 3500 RPM

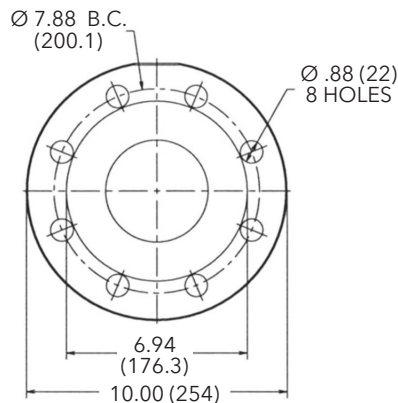
60 Hz



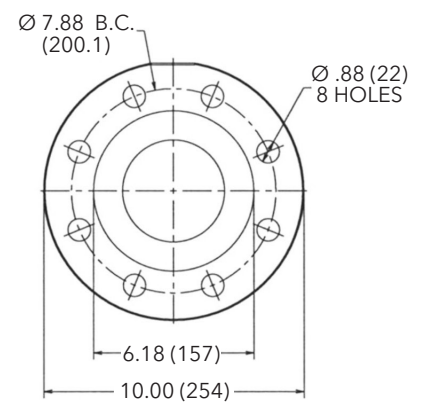
**Cast Iron**  
**4" Class 125 F.F.**



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



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

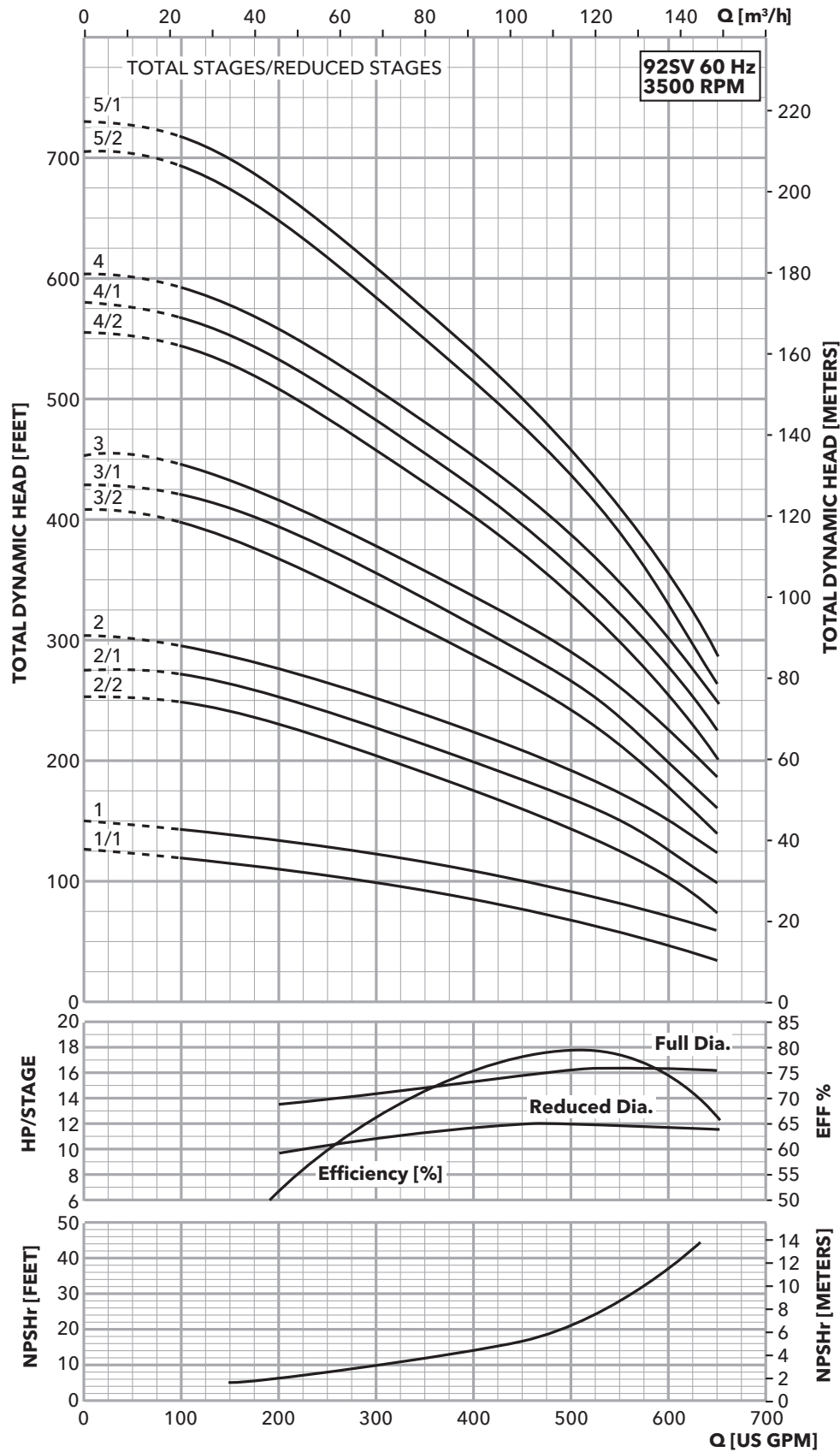


**316SS**  
**4" Class 300 R.F.**

All dimensions are in inches (mm).

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

| Pump<br>Type<br>Stages | Motor |            |            |           |            | Dimensions (in) |           |            |           |            |             |           |            |           |            | Weight (lbs.) |              |           |            |           |            |            |            |           |            |      |
|------------------------|-------|------------|------------|-----------|------------|-----------------|-----------|------------|-----------|------------|-------------|-----------|------------|-----------|------------|---------------|--------------|-----------|------------|-----------|------------|------------|------------|-----------|------------|------|
|                        | HP    | NEMA Frame |            |           |            | L1              | L2        |            |           |            | M<br>(Ref.) | D1 (max.) |            |           |            | D2            | Pump<br>Only | Motor     |            |           |            | Pump/Motor |            |           |            |      |
|                        |       | ODP<br>1Ø  | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |                 | ODP<br>1Ø | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |             | ODP<br>1Ø | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |               |              | ODP<br>1Ø | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø | ODP<br>1Ø  | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>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    | -          | -          | -         | -          | 34.88           | -         | -          | 22.50     | 27.22      | 13.12       | -         | -          | 13.25     | 19.00      | 5.51          | 242          | -         | -          | 474       | 736        | -          | -          | 716       | 978        |      |
| 92SV-4/1               |       | -          | -          | -         | 326TSC     | 364TSC          | 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       |      |

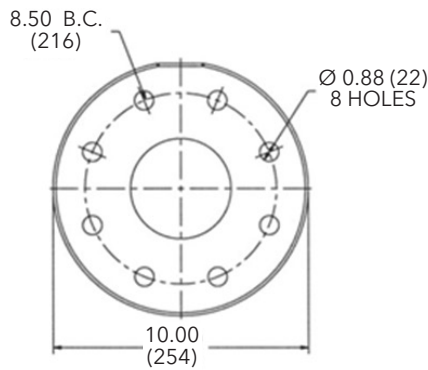
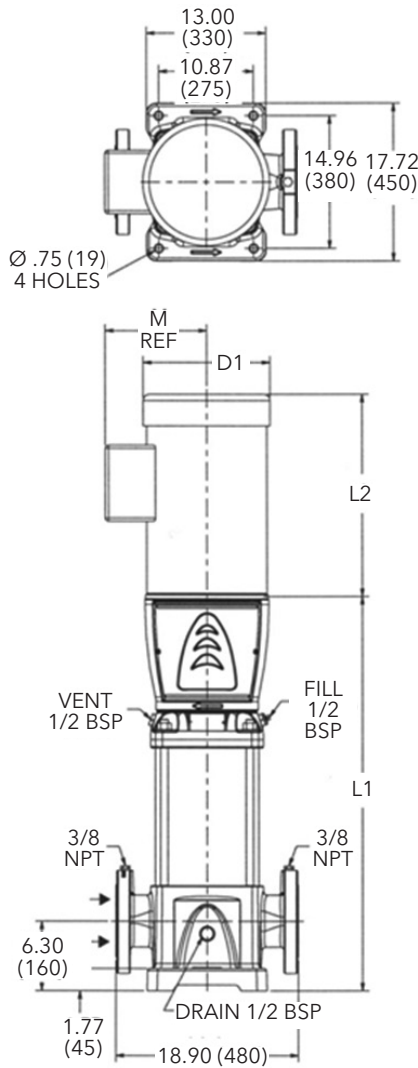


## Commercial Water

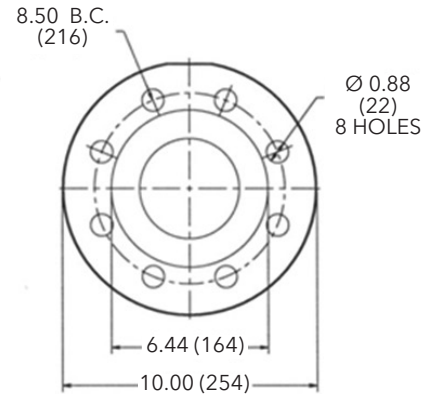
### Dimensions and Weights

### 125SV Series 3500 RPM

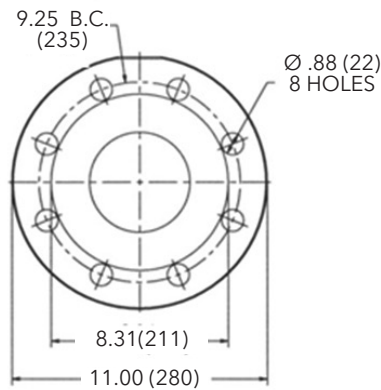
60 Hz



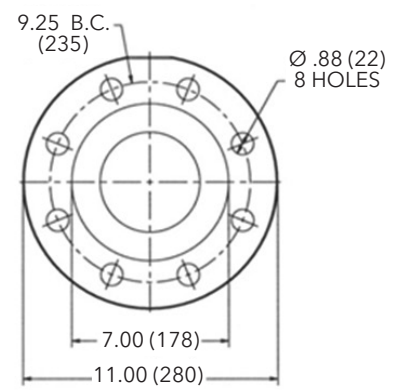
**Cast Iron**  
**5\" Class 125 F.F.**



**316SS**  
**5\" Class 150 R.F.**



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



**316SS**  
**5\" Class 300 R.F.**

All dimensions are in inches (mm).

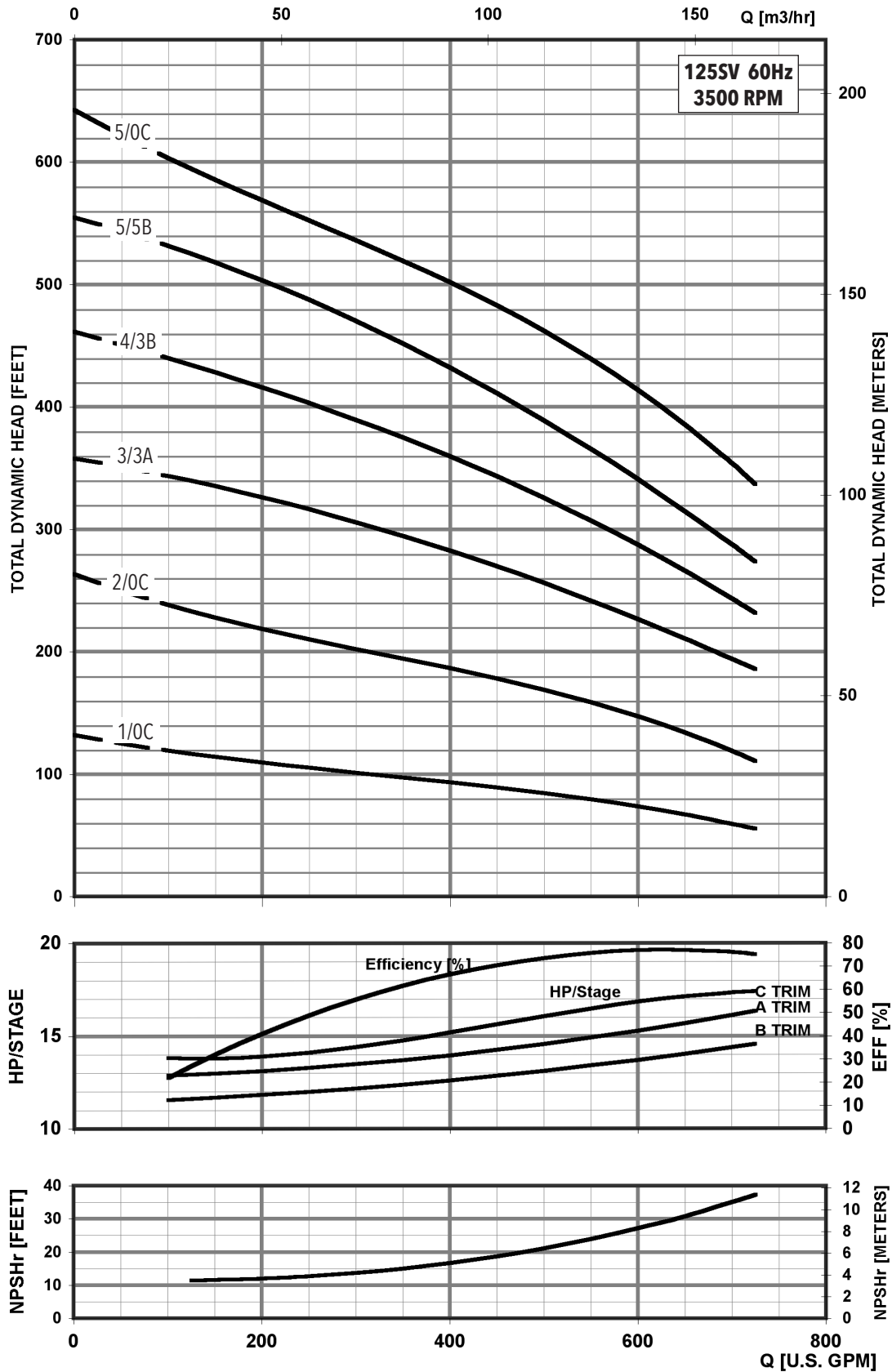
### 125SV SERIES – 60Hz, 3500 RPM ODP/TEFC Enclosures

| 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 10     | TEFC 10 | ODP 30 | TEFC 30 |                 | ODP 10 | TEFC 10 | ODP 30 | TEFC 30 |    |    |    |    |          | ODP 10    | TEFC 10 | ODP 30 | TEFC 30 |      |               | ODP 10 | TEFC 10 | ODP 30 | TEFC 30 | ODP 10     | TEFC 10 | ODP 30 | TEFC 30 |
| 125SV/10C | 15    | -          | -       | 215TC  | 254TC   | 27.30           | -      | -       | 15.55  | 16.57   | -  | -  | -  | -  | 9.22     | -         | -       | 10.18  | 10.28   | 4.72 | 256           | -      | -       | 125    | 195     | -          | -       | 381    | 451     |
| 125SV/20C | 30    | -          | -       | 284TC  | 286TC   | 34.57           | -      | -       | 21.75  | 19.54   | -  | -  | -  | -  | 12.21    | -         | -       | 13.25  | 12.94   | 5.51 | 289           | -      | -       | 296    | 382     | -          | -       | 585    | 671     |
| 125SV/30A | 40    | -          | -       | 286TC  | 286TC   | 40.47           | -      | -       | 21.75  | 23.18   | -  | -  | -  | -  | 13.11    | -         | -       | 13.25  | 15.56   | 5.51 | 315           | -      | -       | 315    | 446     | -          | -       | 630    | 761     |
| 125SV/40B | 50    | -          | -       | 324TSC | 326TSC  | 46.40           | -      | -       | 22.75  | 23.19   | -  | -  | -  | -  | 12.21    | -         | -       | 13.03  | 15.69   | 5.51 | 355           | -      | -       | 320    | 450     | -          | -       | 675    | 805     |
| 125SV/50B | 60    | -          | -       | 324TSC | 326TSC  | 52.30           | -      | -       | 22.75  | 30.69   | -  | -  | -  | -  | 14.95    | -         | -       | 13.03  | 19.25   | 5.51 | 379           | -      | -       | 372    | 689     | -          | -       | 751    | 1068    |
| 125SV/50C | 75    | -          | -       | 364TSC | 365TSC  | 52.28           | -      | -       | 24.38  | 30.69   | -  | -  | -  | -  | 14.95    | -         | -       | 15.13  | 19.25   | 5.51 | 379           | -      | -       | 447    | 747     | -          | -       | 826    | 1126    |

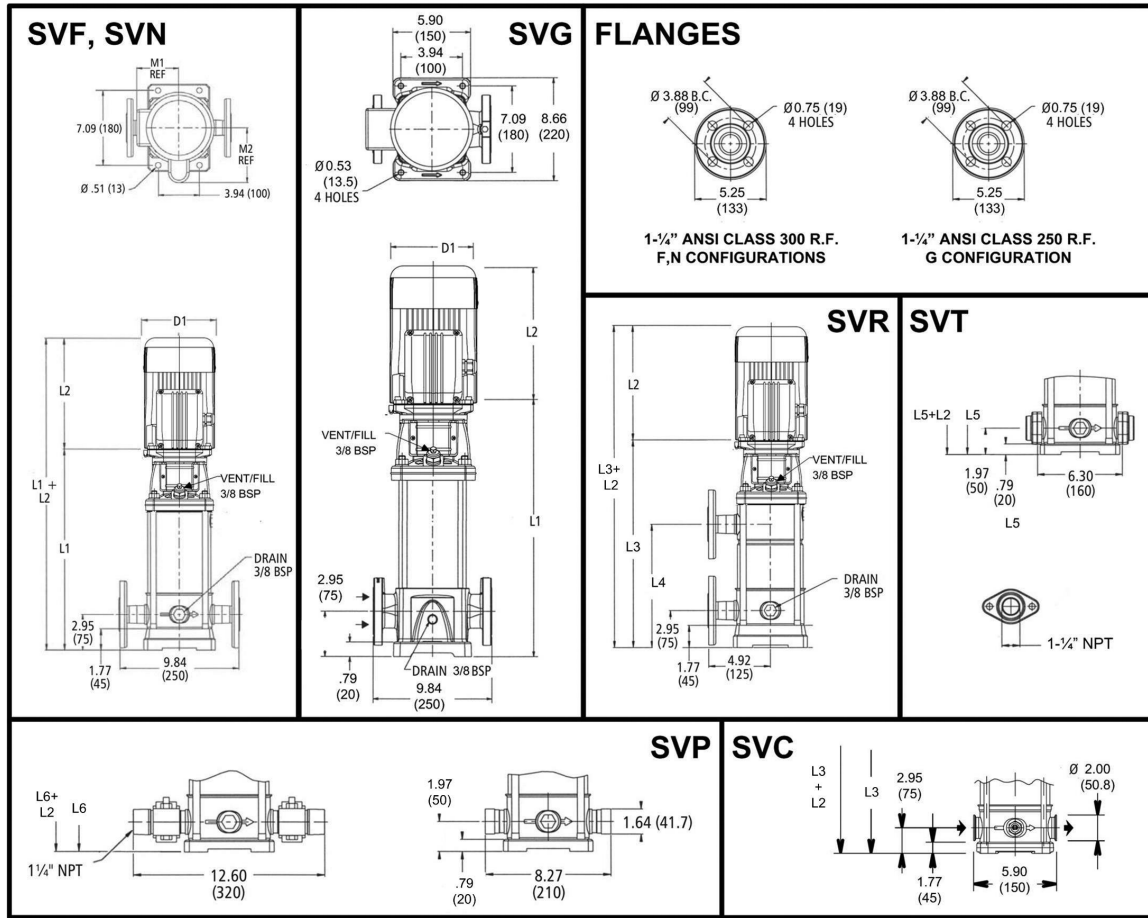
### Performance Curve

**125SV 3500 RPM**

**60 Hz**



**MINIMUM FLOW RATE: 100 GPM [20 m³/hr]**



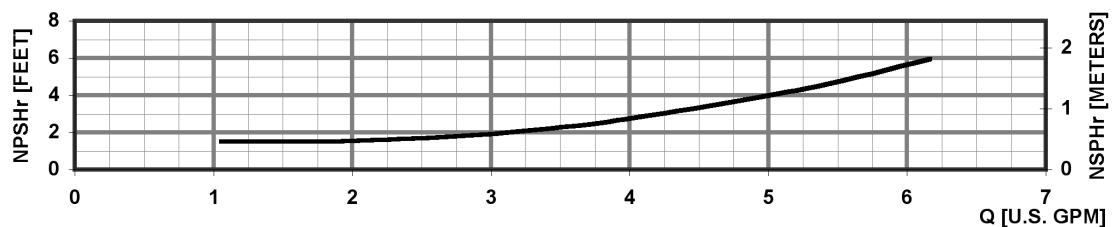
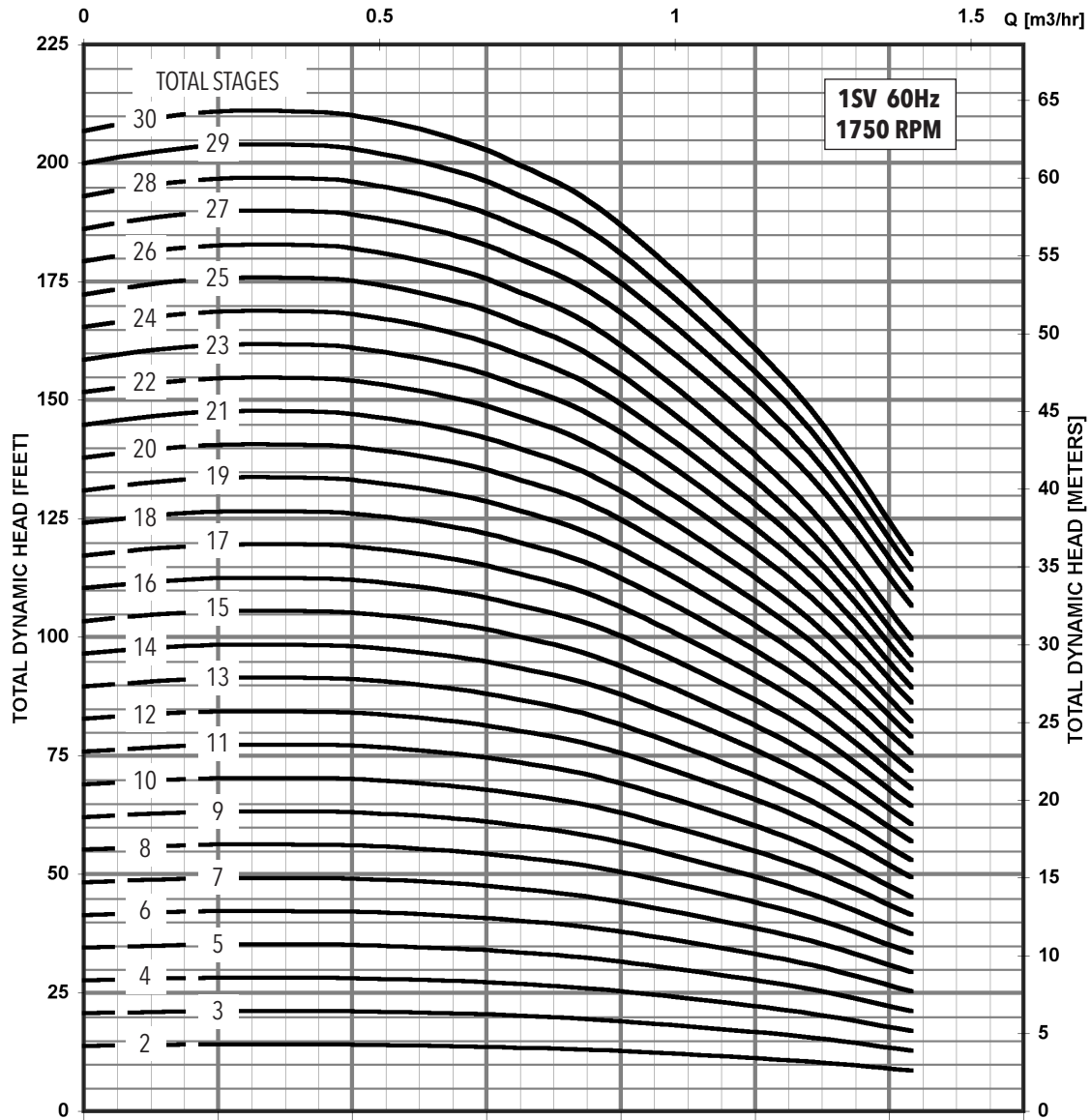
### 1SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

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

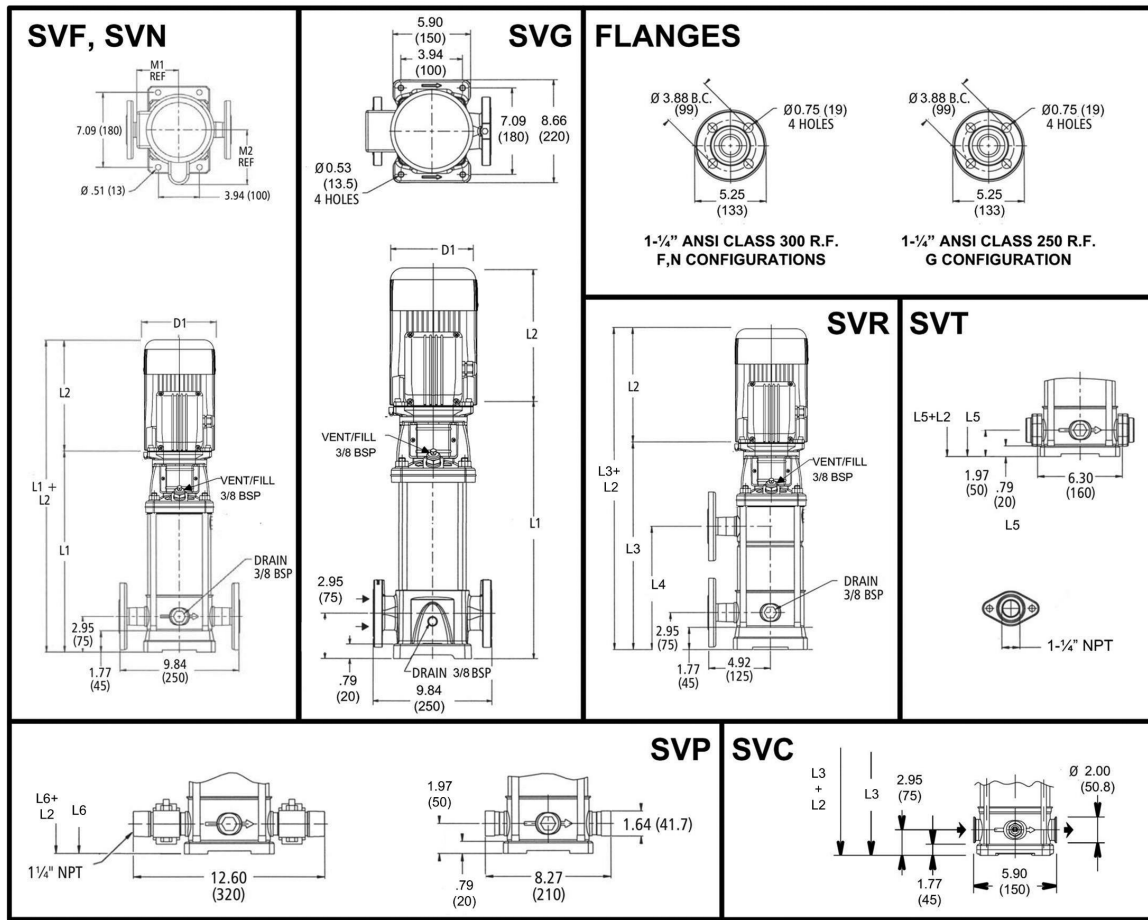
### Performance Curve

1SV 1750 RPM

60 Hz



**MINIMUM FLOW RATE: 1 GPM [.24 m<sup>3</sup>/hr]**



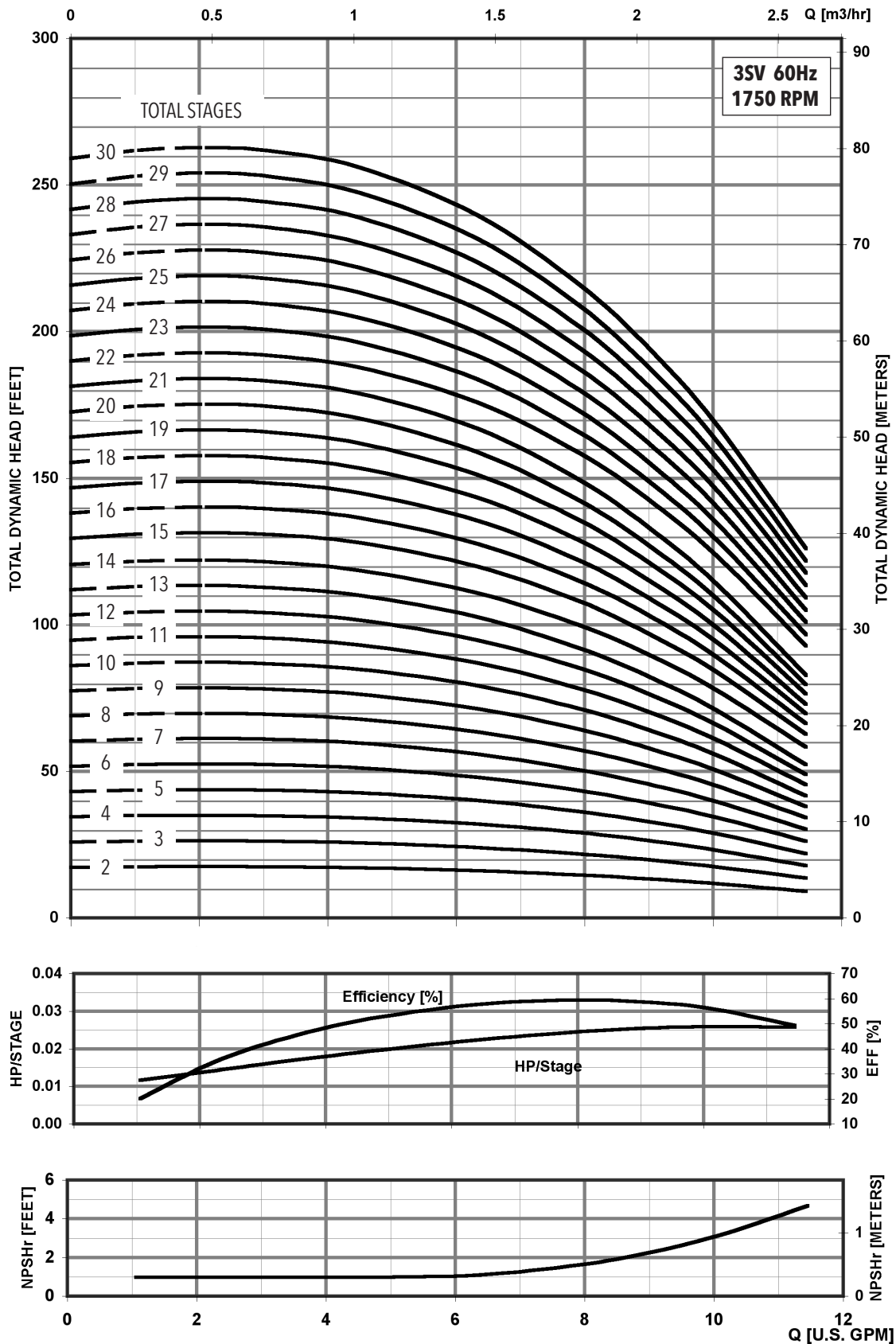
### 3SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

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

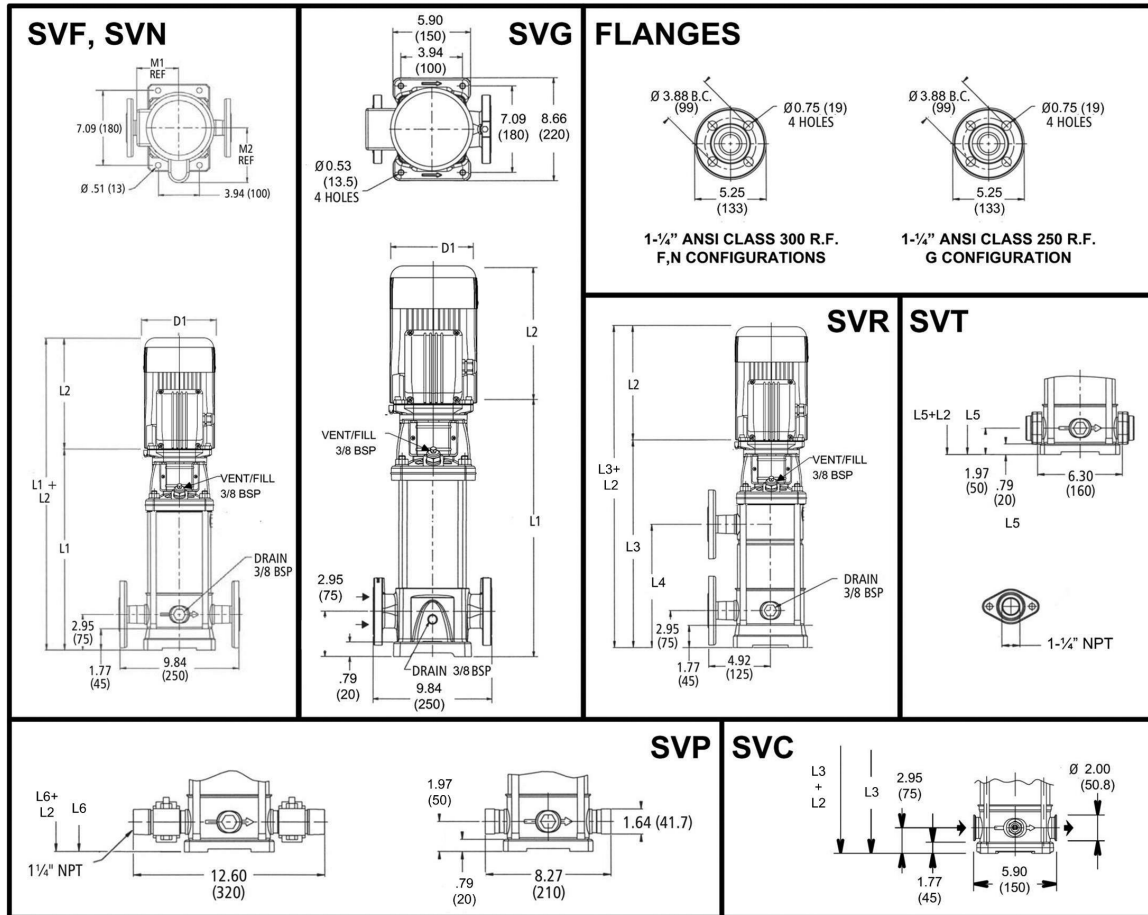
### Performance Curve

**3SV 1750 RPM**

**60 Hz**



**MINIMUM FLOW RATE: 1 GPM [.24 m³/hr]**



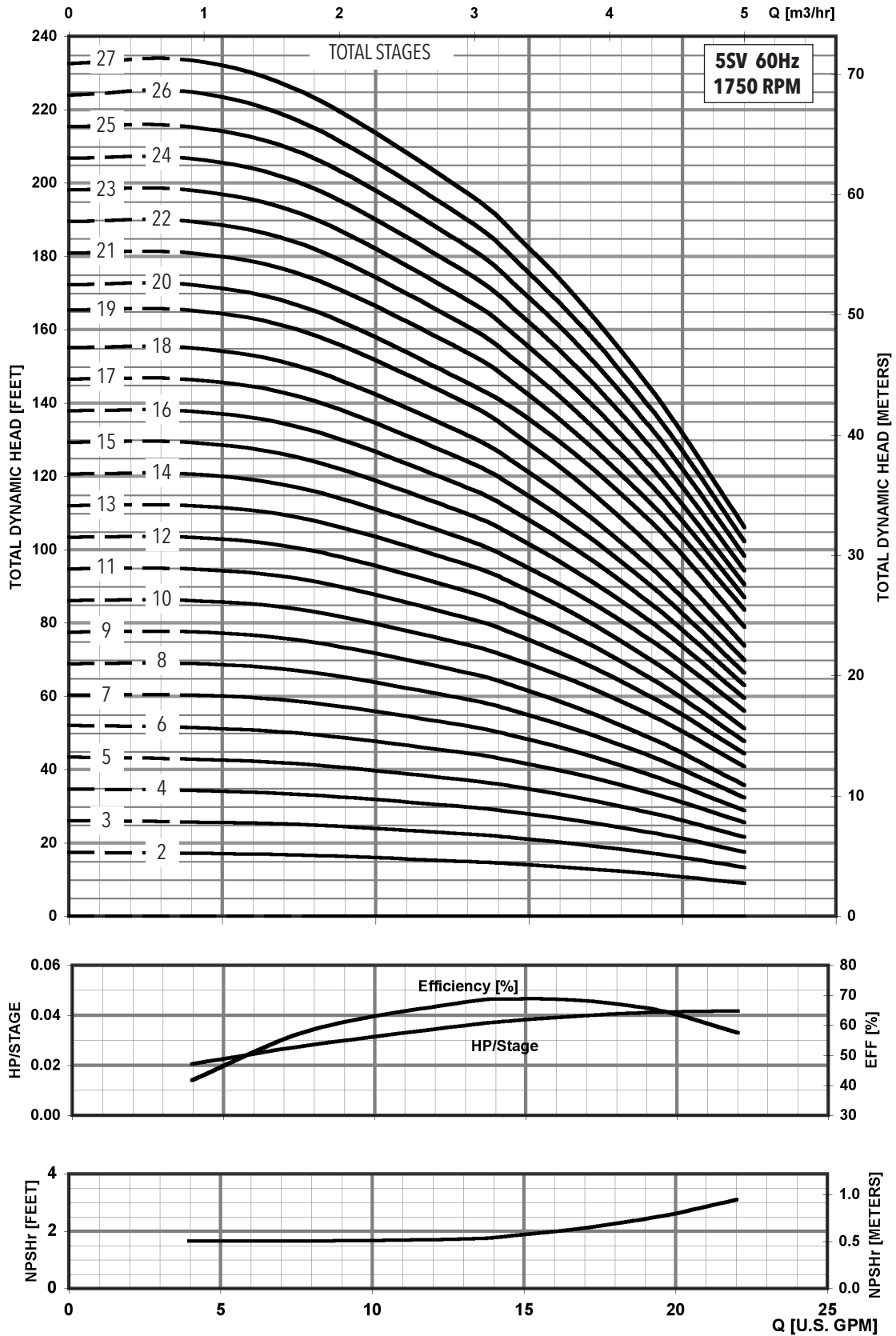
### 5SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

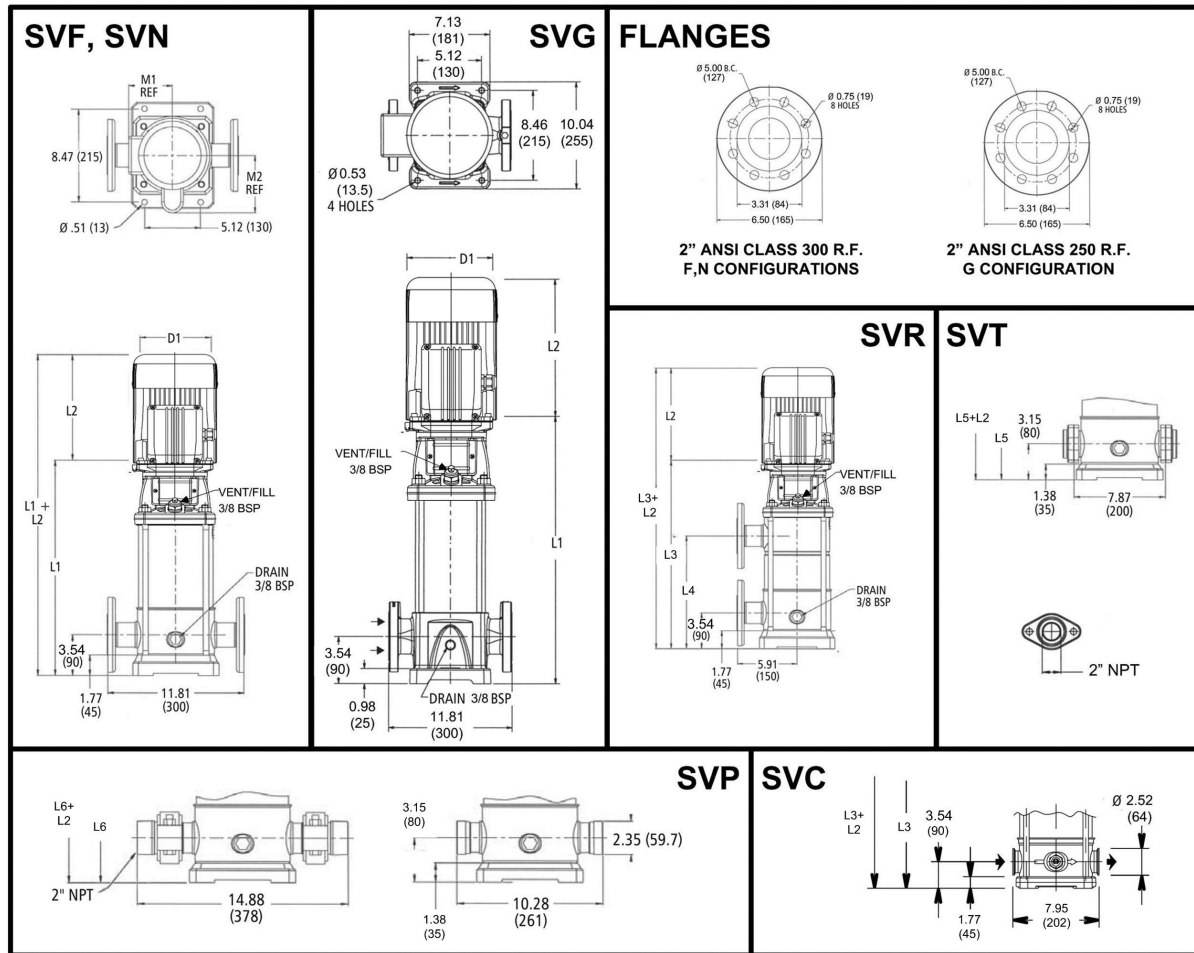
| Pump<br>Type<br>Stages | Motor |            |            |           |            | Dimensions (in) |           |            |           |            |       |       |       |      |             |           |            |           |            | Weight (lbs.) |              |           |         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

### Performance Curve

**5SV 1750 RPM**

**60 Hz**





All dimensions are in inches (mm).

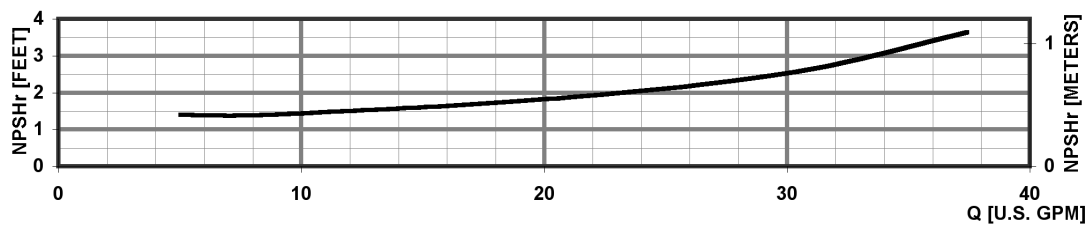
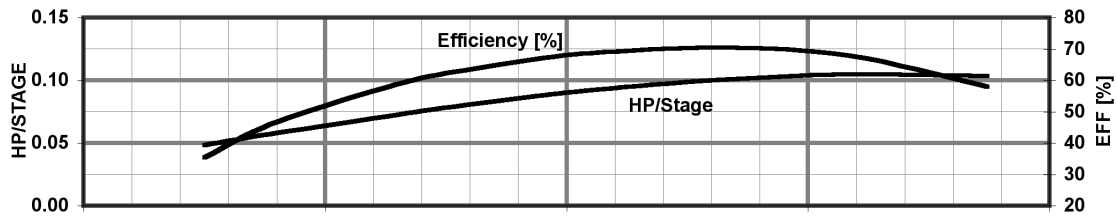
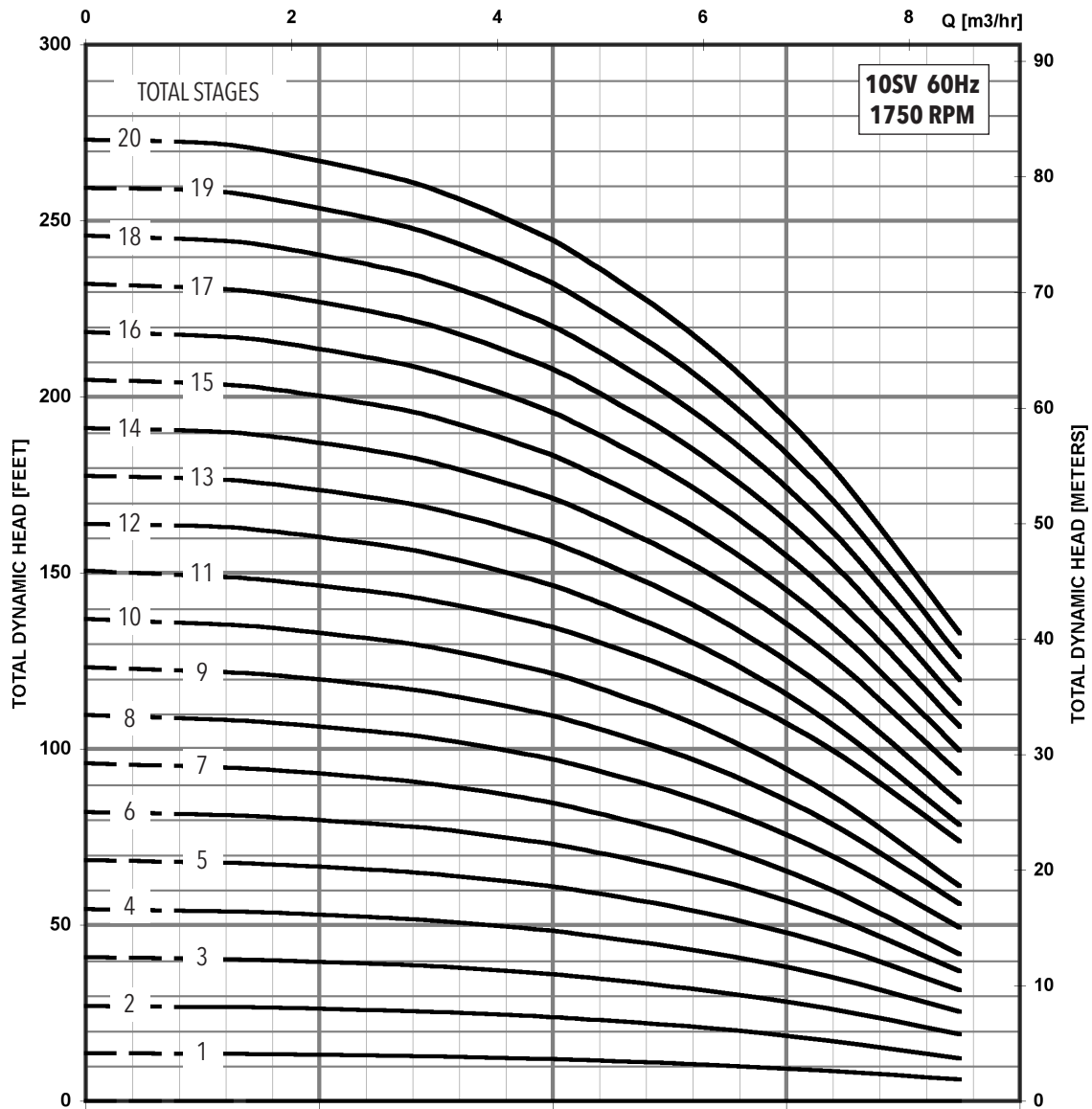
### 10SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

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

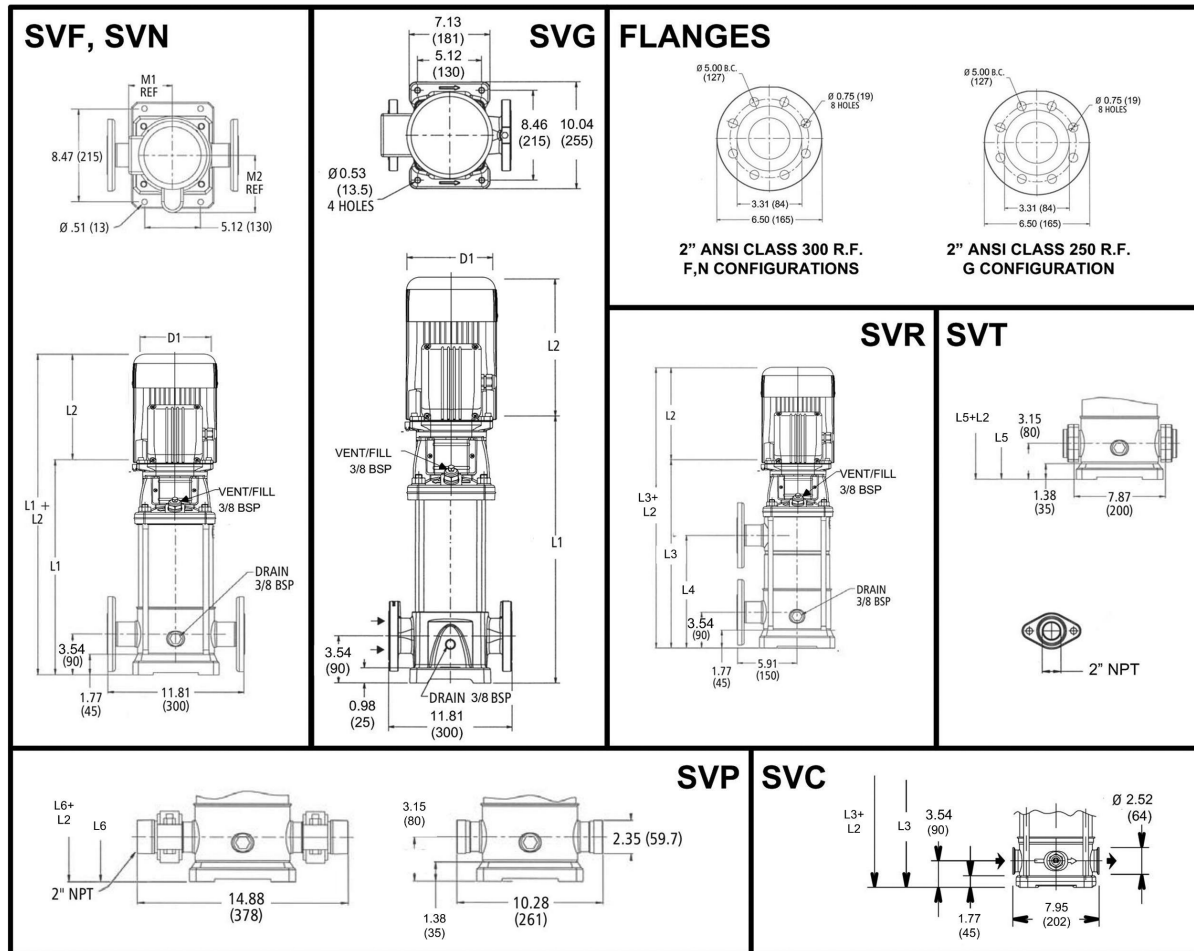
### Performance Curve

10SV 1750 RPM

60 Hz



MINIMUM FLOW RATE: 5 GPM [1.4 m<sup>3</sup>/hr]



All dimensions are in inches (mm).

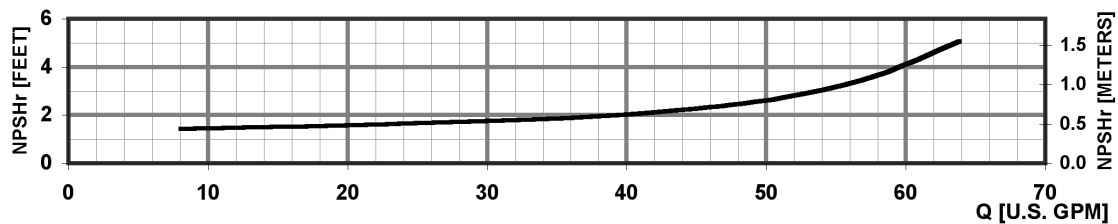
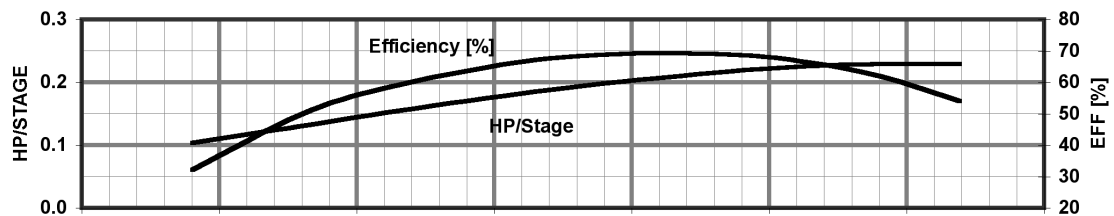
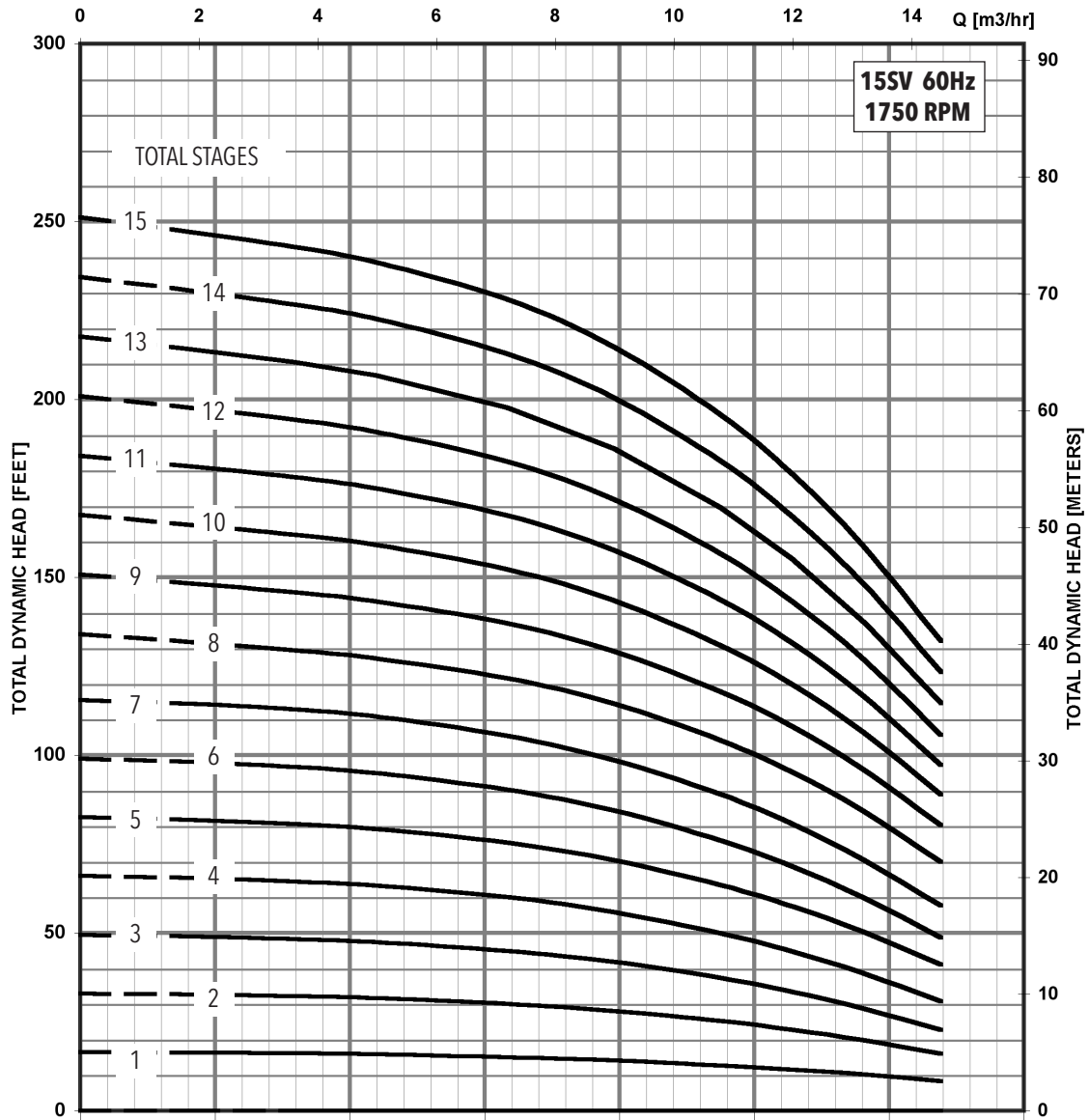
### 15SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

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

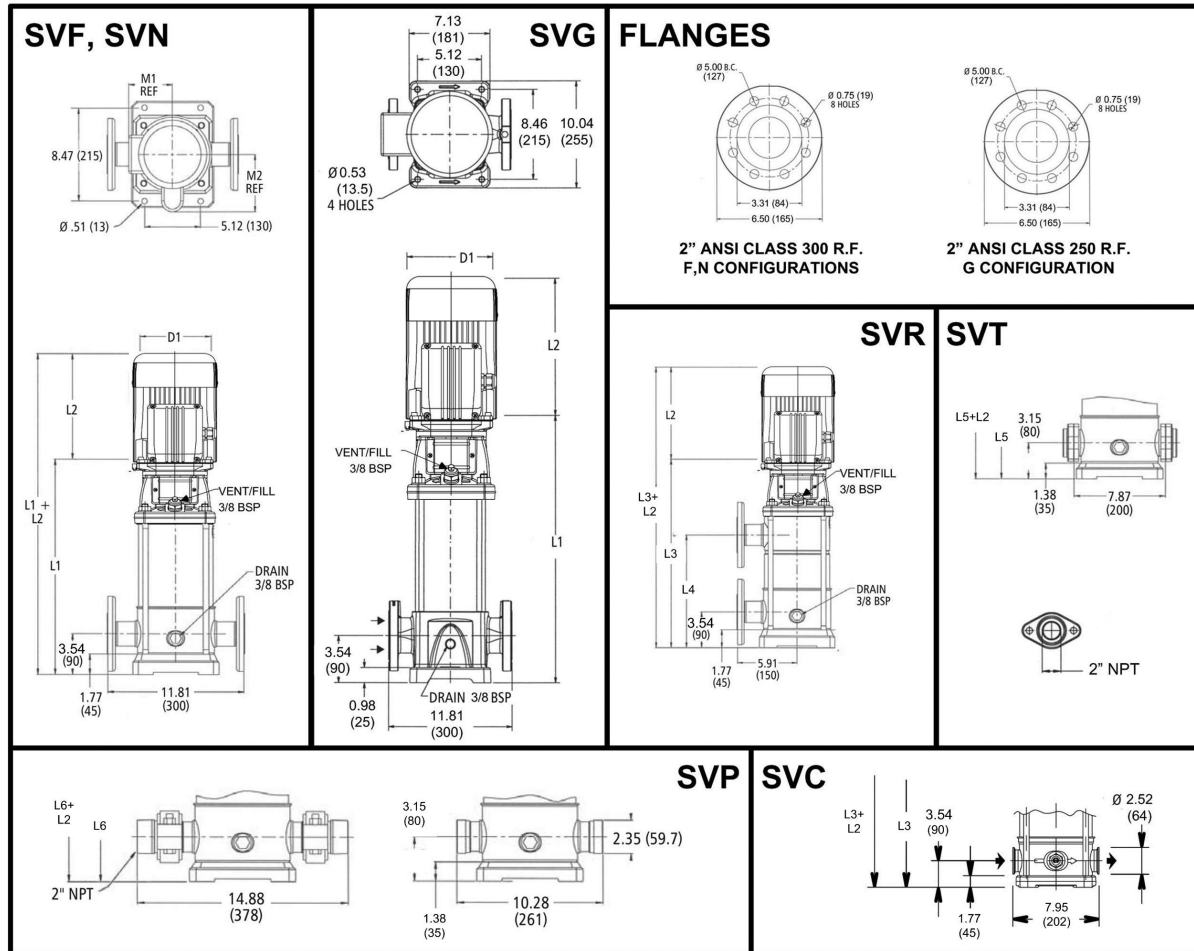
### Performance Curve

**15SV 1750 RPM**

**60 Hz**



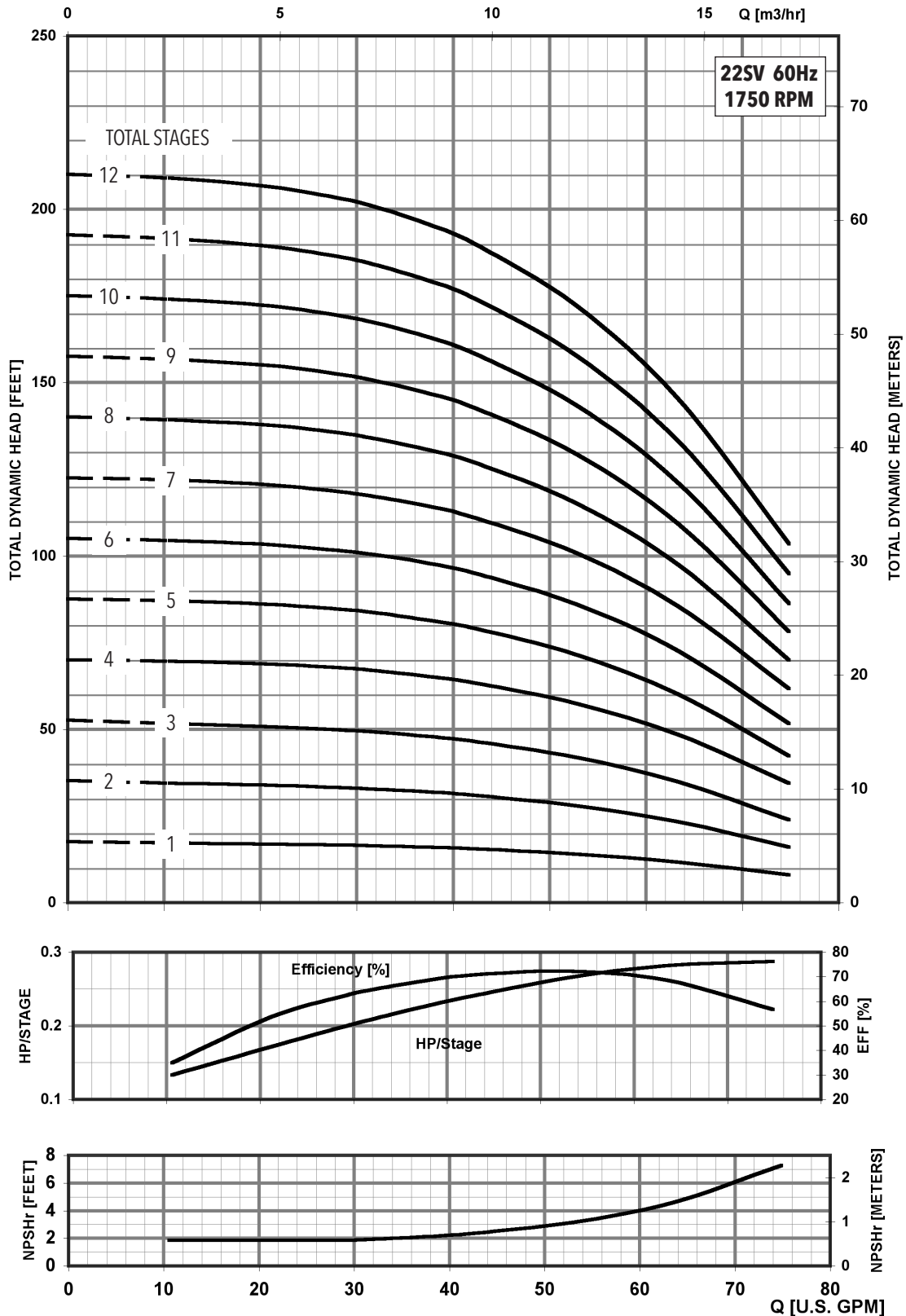
**MINIMUM FLOW RATE: 8 GPM [2 m³/hr]**



All dimensions are in inches (mm).

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

| Pump<br>Type<br>Stages | Motor |            |            |           | Dimensions (in) |       |           |            |           |            |       |       |       |      |             |           |            |           | Weight (lbs.) |    |              |           |            |           |            |            |            |           |            |
|------------------------|-------|------------|------------|-----------|-----------------|-------|-----------|------------|-----------|------------|-------|-------|-------|------|-------------|-----------|------------|-----------|---------------|----|--------------|-----------|------------|-----------|------------|------------|------------|-----------|------------|
|                        | HP    | NEMA Frame |            |           |                 | L1    | L2        |            |           |            | L3    | L4    | L5    | L6   | M<br>(Ref.) | D1 (max.) |            |           |               | D2 | Pump<br>Only | Motor     |            |           |            | Pump/Motor |            |           |            |
|                        |       | ODP<br>1Ø  | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø      |       | ODP<br>1Ø | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |       |       |       |      |             | ODP<br>1Ø | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø    |    |              | ODP<br>1Ø | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø | ODP<br>1Ø  | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |
| 22SV01                 | 0.5   | 56C        |            |           | 18.61           | 9.16  | 9.29      | 9.16       | 9.29      | -          | -     | 18.21 | 18.21 | 5.19 | 6.19        | 6.19      | 6.19       | 6.19      | 4.13          | 39 | 21           | 21        | 19         | 19        | 60         | 60         | 58         | 58        |            |
| 22SV02                 |       |            |            |           | 18.21           | 9.16  | 9.29      | 9.16       | 9.29      | -          | -     | 17.82 | 17.82 | 5.19 | 6.19        | 6.19      | 6.19       | 6.19      | 4.13          | 42 | 21           | 21        | 19         | 19        | 63         | 63         | 61         | 61        |            |
| 22SV03                 | 0.75  |            |            |           | 20.10           | 10.79 | 9.91      | 9.16       | 9.29      | -          | -     | 19.71 | 19.71 | 5.19 | 6.19        | 6.19      | 6.19       | 6.19      | 4.13          | 45 | 27           | 29        | 21         | 21        | 72         | 74         | 66         | 66        |            |
| 22SV04                 |       |            |            |           | 21.99           | 10.67 | 11.19     | 10.66      | 9.91      | 21.99      | 11.85 | 21.60 | 21.60 | 5.74 | 6.19        | 7.19      | 6.19       | 6.19      | 4.72          | 48 | 32           | 40        | 30         | 28        | 80         | 88         | 78         | 76        |            |
| 22SV05                 | 1.5   |            |            |           | 23.90           | 10.67 | 11.19     | 10.66      | 9.91      | 23.90      | 13.74 | 23.51 | 23.51 | 5.74 | 6.19        | 7.19      | 6.19       | 6.19      | 4.72          | 51 | 32           | 40        | 30         | 28        | 83         | 91         | 81         | 79        |            |
| 22SV06                 |       |            |            |           | 25.79           | 11.18 | 12.06     | 11.16      | 10.79     | 25.79      | 15.63 | 25.40 | 25.40 | 5.74 | 7.19        | 7.19      | 6.19       | 6.19      | 4.72          | 54 | 43           | 51        | 32         | 33        | 97         | 105        | 86         | 87        |            |
| 22SV07                 | 2     |            |            |           | 27.68           | 11.18 | 12.06     | 11.16      | 10.79     | 27.68      | 17.52 | 27.29 | 27.29 | 5.74 | 7.19        | 7.19      | 6.19       | 6.19      | 4.72          | 57 | 43           | 51        | 32         | 33        | 100        | 108        | 89         | 90        |            |
| 22SV08                 |       |            |            |           | 29.57           | 11.57 | 13.44     | 11.18      | 11.16     | 29.57      | 19.41 | 29.18 | 29.18 | 5.75 | 6.50        | 7.19      | 7.16       | 7.19      | 5.51          | 60 | 49           | 64        | 41         | 44        | 109        | 124        | 101        | 104       |            |
| 22SV09                 | 3     |            |            |           | 31.46           | 11.57 | 13.44     | 11.18      | 11.16     | 31.46      | 21.30 | 31.07 | 31.07 | 5.75 | 6.50        | 7.19      | 7.16       | 7.19      | 5.51          | 62 | 49           | 64        | 41         | 44        | 111        | 126        | 103        | 106       |            |
| 22SV10                 |       |            |            |           | 33.35           | 11.57 | 13.44     | 11.18      | 11.16     | 33.35      | 23.19 | 32.96 | 32.96 | 5.75 | 6.50        | 7.19      | 7.16       | 7.19      | 5.51          | 66 | 49           | 64        | 41         | 44        | 115        | 130        | 107        | 110       |            |
| 22SV11                 |       |            |            |           | 35.24           | 11.57 | 13.44     | 11.18      | 11.16     | 35.24      | 25.08 | 34.85 | 34.85 | 5.75 | 6.50        | 7.19      | 7.16       | 7.19      | 5.51          | 69 | 49           | 64        | 41         | 44        | 118        | 133        | 110        | 113       |            |
| 22SV12                 | 5     | 184TC      | 182TC      | 184TC     | 37.63           | 13.93 | 15.43     | 12.55      | 13.93     | 37.63      | 26.97 | 37.24 | 37.24 | 6.87 | 8.88        | 8.86      | 9.02       | 8.86      | 5.51          | 75 | 81           | 92        | 62         | 69        | 156        | 167        | 137        | 144       |            |

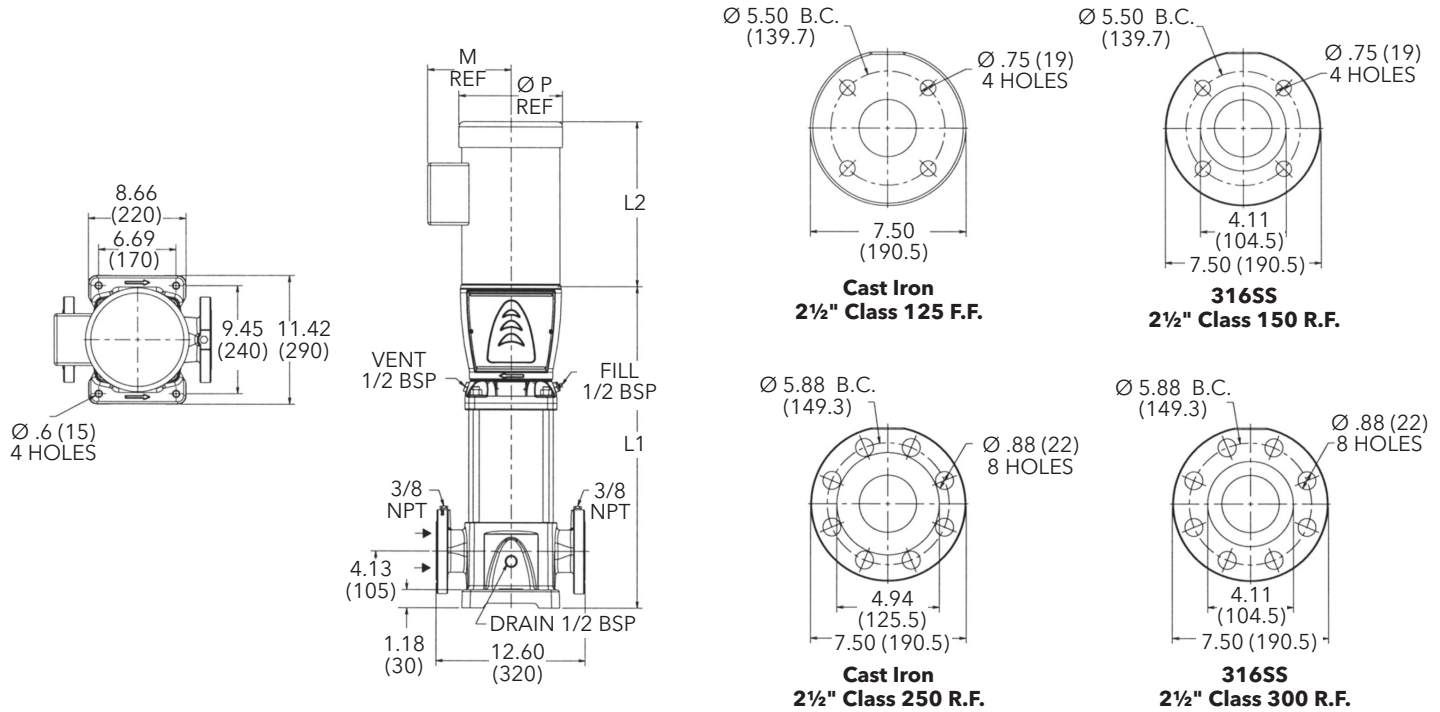


**MINIMUM FLOW RATE: 11 GPM [2.5 m³/hr]**

### Dimensions and Weights

### 33SV Series 1750 RPM

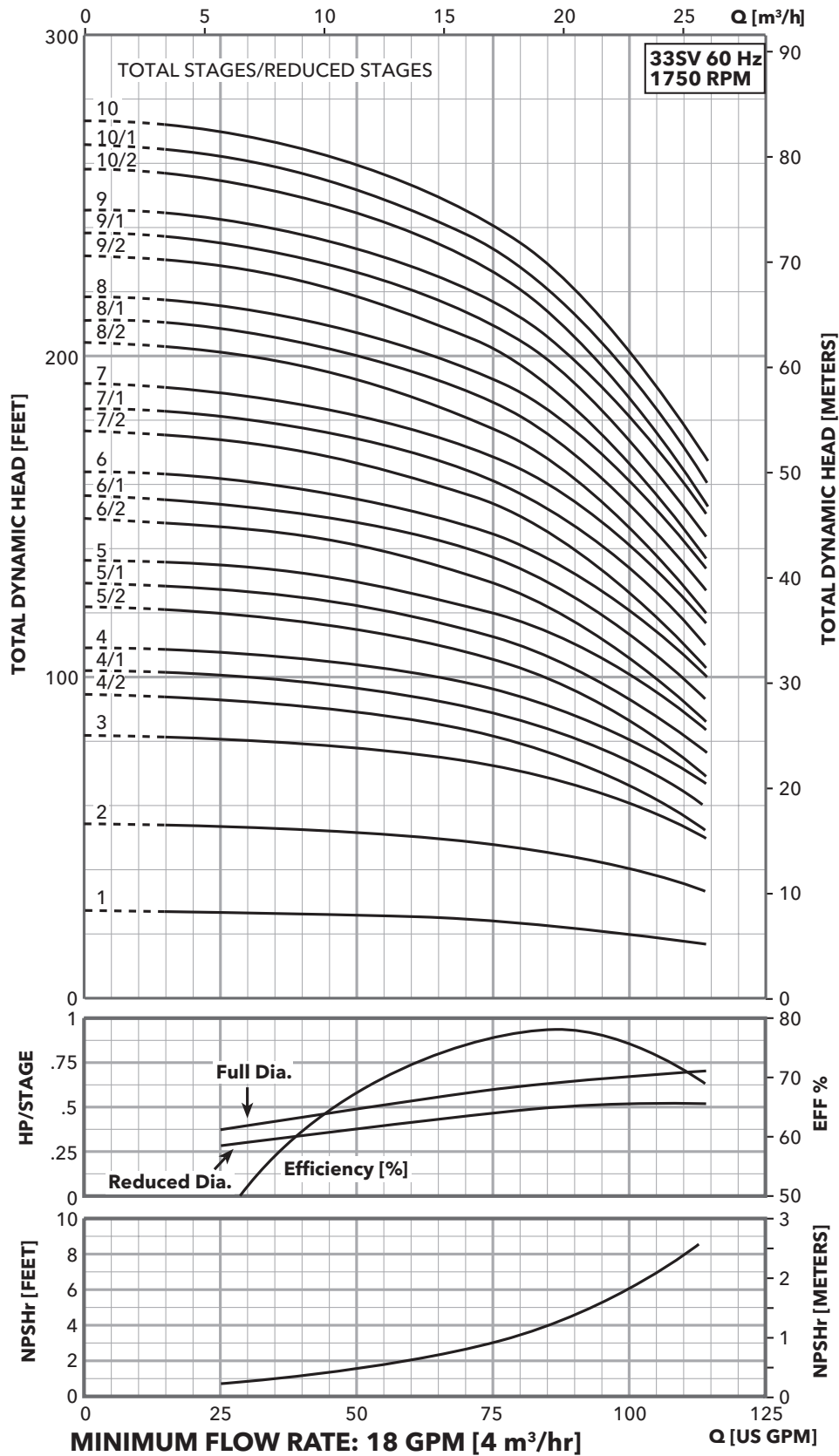
60 Hz



All dimensions are in inches (mm).

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

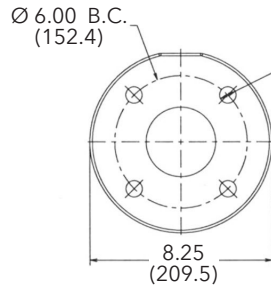
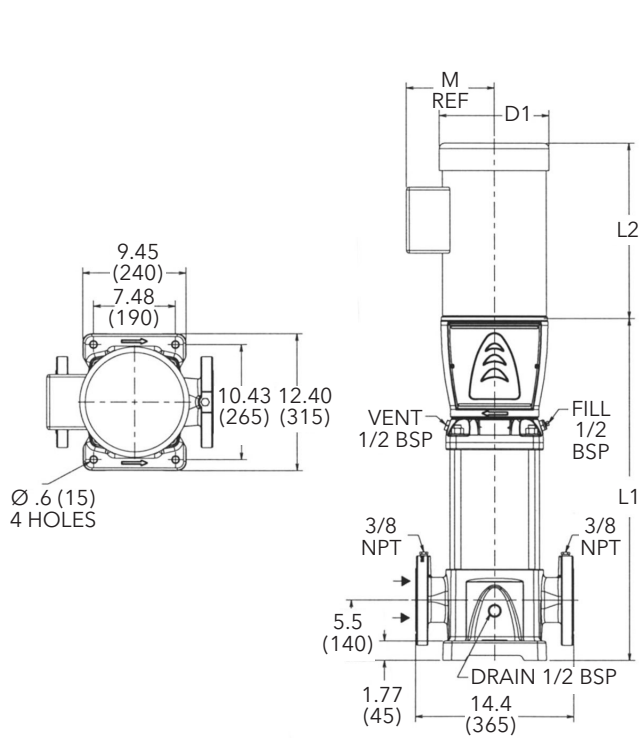
| Pump Type Stages | Motor |            |         |                 |                 | Dimensions (in) |        |         |                 |                 |                 |                 |                 |                 |                 | Weight (lbs.) |                 |                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



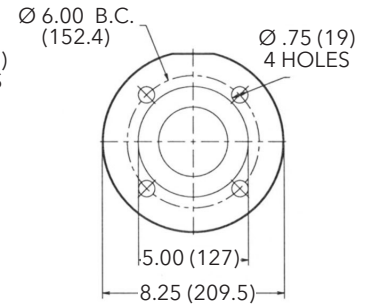
### Dimensions and Weights

### 46SV Series 1750 RPM

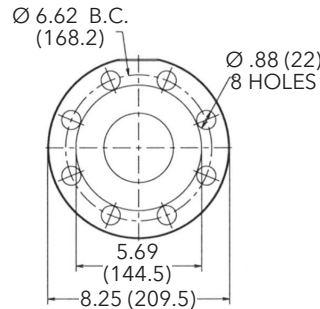
60 Hz



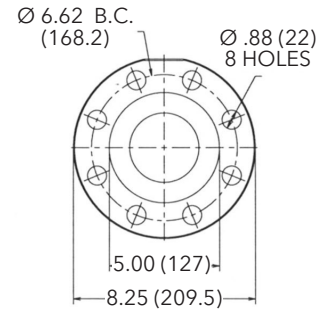
**Cast Iron**  
**3" Class 125 F.F.**



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



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

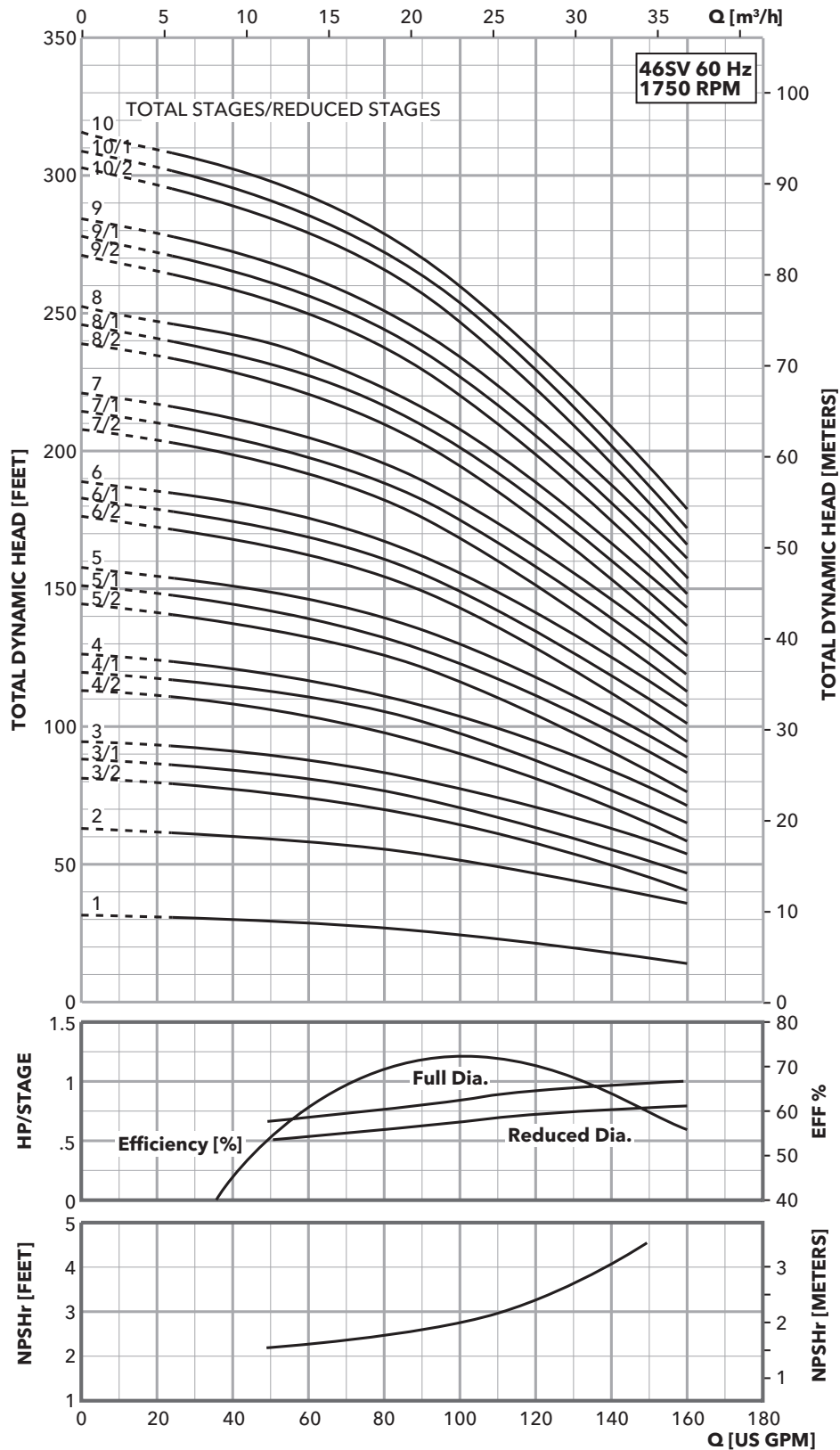


**316SS**  
**3" Class 300 R.F.**

All dimensions are in inches (mm).

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

| Pump Type Stages | Motor |            |         |                 |         | Dimensions (in) |        |                 |                 |                 |                 |                 |                 |                 |         | Weight (lbs.)   |                 |                 |                 |                 |                 |                 |                 |                 |         |
|------------------|-------|------------|---------|-----------------|---------|-----------------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------|
|                  | HP    | NEMA Frame |         |                 |         | L1              | L2     |                 |                 |                 | M (Ref.)        | D1 (max.)       |                 |                 |         | D2              | Pump Only       | Motor           |                 |                 |                 | Pump/Motor      |                 |                 |         |
|                  |       | ODP 10     | TEFC 10 | ODP 30          | TEFC 30 |                 | ODP 10 | TEFC 10         | ODP 30          | TEFC 30         |                 | ODP 10          | TEFC 10         | ODP 30          | TEFC 30 |                 |                 | ODP 10          | TEFC 10         | ODP 30          | TEFC 30         | ODP 10          | TEFC 10         | ODP 30          | TEFC 30 |
| 46SV-1           | 1.5   | -          | -       | CONTACT FACTORY | 22.19   | -               | -      | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY | 147     | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY | CONTACT FACTORY |         |
| 46SV-2/2         | 2     | -          | -       |                 | 25.19   | -               | -      |                 |                 |                 |                 |                 |                 |                 | 158     |                 |                 |                 |                 |                 |                 |                 |                 |                 |         |
| 46SV-2/1         |       | -          | -       |                 | 25.19   | -               | -      |                 |                 |                 |                 |                 |                 |                 | 158     |                 |                 |                 |                 |                 |                 |                 |                 |                 |         |
| 46SV-2           |       | -          | -       |                 | 25.19   | -               | -      |                 |                 |                 |                 |                 |                 |                 | 158     |                 |                 |                 |                 |                 |                 |                 |                 |                 |         |
| 46SV-3/2         | 3     | -          | -       | 182TC           | 27.12   | -               | -      | 13.94           | 15.44           | 6.88            | -               | -               | 8.50            | 8.50            | 5.51    | 169             | -               | -               | 61              | 62              | -               | -               | 230             | 231             |         |
| 46SV-3/1         |       | -          | -       |                 | 27.12   | -               | -      | 13.94           | 15.44           | 6.88            | -               | -               | 8.50            | 8.50            | 5.51    | 169             | -               | -               | 61              | 62              | -               | -               | 230             | 231             |         |
| 46SV-3           |       | -          | -       |                 | 27.12   | -               | -      | 13.94           | 15.44           | 6.88            | -               | -               | 8.50            | 8.50            | 5.51    | 169             | -               | -               | 61              | 62              | -               | -               | 230             | 231             |         |
| 46SV-4/2         | 4     | -          | -       | 184TC           | 31.63   | -               | -      | 13.94           | 15.44           | 6.88            | -               | -               | 8.50            | 8.50            | 5.51    | 192             | -               | -               | 68              | 75              | -               | -               | 260             | 267             |         |
| 46SV-4/1         |       | -          | -       |                 | 31.63   | -               | -      | 13.94           | 15.44           | 6.88            | -               | -               | 8.50            | 8.50            | 5.51    | 192             | -               | -               | 68              | 75              | -               | -               | 260             | 267             |         |
| 46SV-4           |       | -          | -       |                 | 31.63   | -               | -      | 13.94           | 15.44           | 6.88            | -               | -               | 8.50            | 8.50            | 5.51    | 192             | -               | -               | 68              | 75              | -               | -               | 260             | 267             |         |
| 46SV-5/2         | 5     | -          | -       | 184TC           | 35.56   | -               | -      | 13.94           | 15.44           | 6.88            | -               | -               | 8.50            | 8.50            | 5.51    | 199             | -               | -               | 68              | 75              | -               | -               | 267             | 274             |         |
| 46SV-5/1         |       | -          | -       |                 | 35.56   | -               | -      | 13.94           | 15.44           | 6.88            | -               | -               | 8.50            | 8.50            | 5.51    | 199             | -               | -               | 68              | 75              | -               | -               | 267             | 274             |         |
| 46SV-5           |       | -          | -       |                 | 35.56   | -               | -      | 13.94           | 15.44           | 6.88            | -               | -               | 8.50            | 8.50            | 5.51    | 199             | -               | -               | 68              | 75              | -               | -               | 267             | 274             |         |
| 46SV-6/2         | 6     | -          | -       | 213TC           | 37.50   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 208             | -               | -               | 68              | 75              | -               | -               | 276             | 283             |         |
| 46SV-6/1         |       | -          | -       |                 | 37.50   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 208             | -               | -               | 122             | 125             | -               | -               | 330             | 333             |         |
| 46SV-6           |       | -          | -       |                 | 37.50   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 208             | -               | -               | 122             | 125             | -               | -               | 330             | 333             |         |
| 46SV-7/2         | 7.5   | -          | -       | 213TC           | 39.94   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 233             | -               | -               | 122             | 125             | -               | -               | 355             | 358             |         |
| 46SV-7/1         |       | -          | -       |                 | 39.94   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 233             | -               | -               | 122             | 125             | -               | -               | 355             | 358             |         |
| 46SV-7           |       | -          | -       |                 | 39.94   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 233             | -               | -               | 122             | 125             | -               | -               | 355             | 358             |         |
| 46SV-8/2         | 8     | -          | -       | 215TC           | 42.94   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 242             | -               | -               | 122             | 125             | -               | -               | 364             | 367             |         |
| 46SV-8/1         |       | -          | -       |                 | 42.94   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 242             | -               | -               | 122             | 125             | -               | -               | 364             | 367             |         |
| 46SV-8           |       | -          | -       |                 | 42.94   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 242             | -               | -               | 122             | 125             | -               | -               | 364             | 367             |         |
| 46SV-9/2         | 10    | -          | -       | 215TC           | 45.88   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 253             | -               | -               | 125             | 129             | -               | -               | 378             | 382             |         |
| 46SV-9/1         |       | -          | -       |                 | 45.88   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 253             | -               | -               | 125             | 129             | -               | -               | 378             | 382             |         |
| 46SV-9           |       | -          | -       |                 | 45.88   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 253             | -               | -               | 125             | 129             | -               | -               | 378             | 382             |         |
| 46SV-10/2        | 10    | -          | -       | 215TC           | 48.12   | -               | -      | 15.56           | 15.50           | 8.06            | -               | -               | 10.19           | 10.25           | 5.51    | 164             | -               | -               | 125             | 129             | -               | -               | 289             | 293             |         |

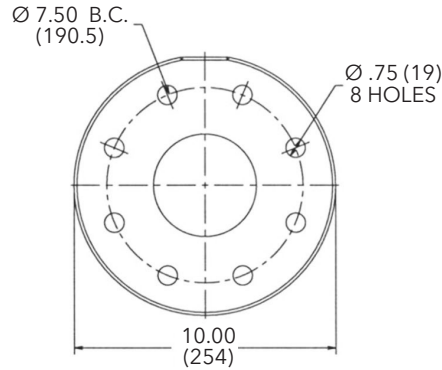
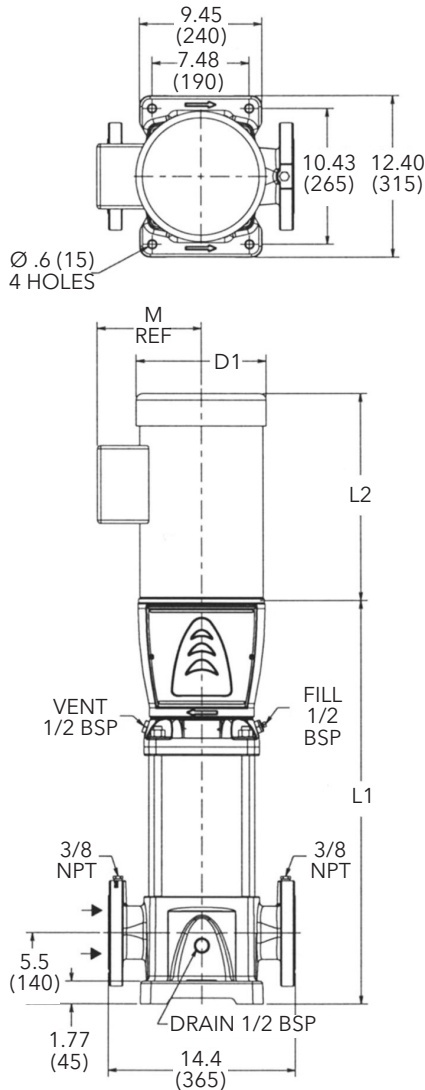


**MINIMUM FLOW RATE: 20 GPM [5 m³/hr]**

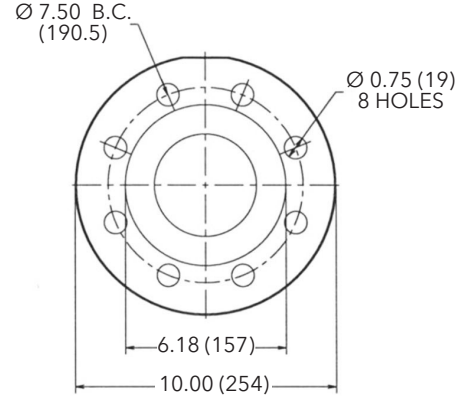
### Dimensions and Weights

### 66SV Series 1750 RPM

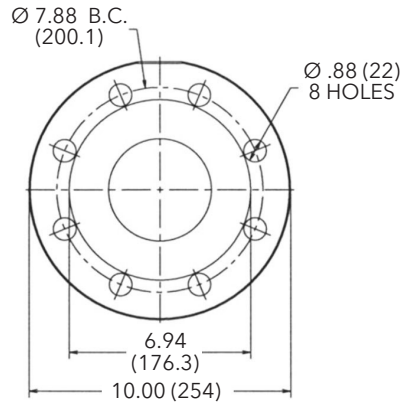
60 Hz



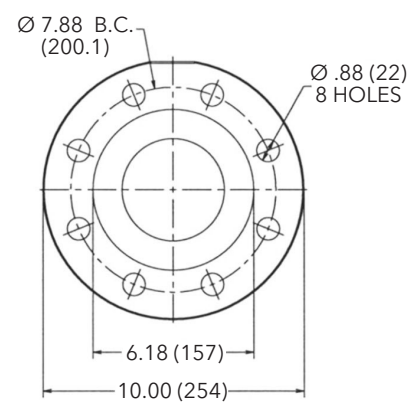
**Cast Iron  
4" Class 125 F.F.**



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



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



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

All dimensions are in inches (mm).

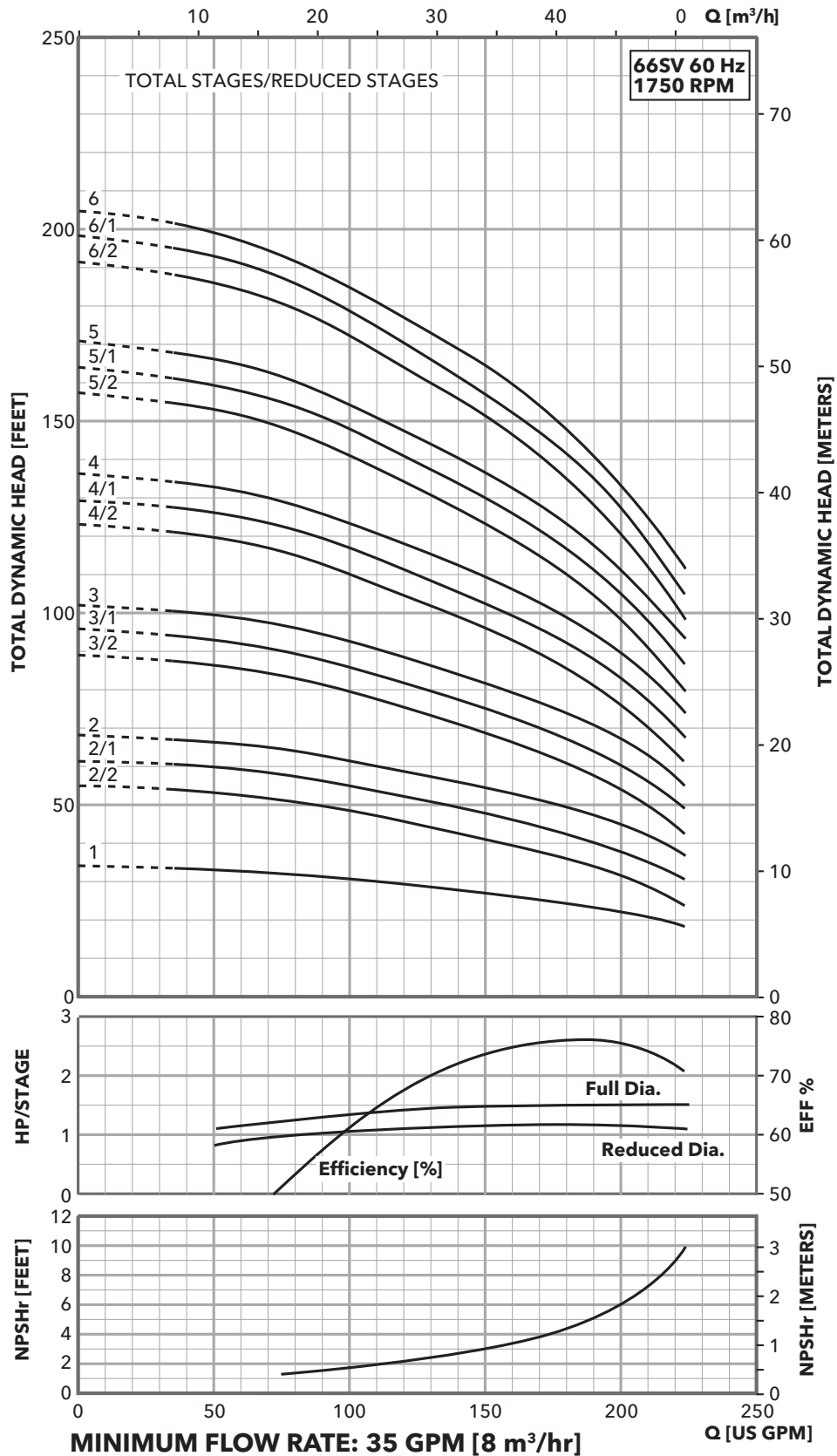
### 66SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

| Pump<br>Type<br>Stages | Motor           |            |            |           |            | Dimensions (in) |                 |            |           |            |             |                 |            |           |            | Weight (lbs.) |              |                 |            |           |            |            |            |           |            |
|------------------------|-----------------|------------|------------|-----------|------------|-----------------|-----------------|------------|-----------|------------|-------------|-----------------|------------|-----------|------------|---------------|--------------|-----------------|------------|-----------|------------|------------|------------|-----------|------------|
|                        | HP              | NEMA Frame |            |           |            | L1              | L2              |            |           |            | M<br>(Ref.) | D1 (max.)       |            |           |            | D2            | Pump<br>Only | Motor           |            |           |            | Pump/Motor |            |           |            |
|                        |                 | ODP<br>1Ø  | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |                 | ODP<br>1Ø       | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |             | ODP<br>1Ø       | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø |               |              | ODP<br>1Ø       | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>3Ø | ODP<br>1Ø  | TEFC<br>1Ø | ODP<br>3Ø | TEFC<br>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               |                 | -          | -          | -         | -          | 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                 |                 | -          | -          | -         | -          | 30.81           | -               | -          | 13.94     | 15.44      | 6.88        | -               | -          | 8.50      | 8.50       | 5.51          | 223          | -               | -          | 68        | 75         | -          | -          | 291       | 298        |
| 66SV-4/2               | 7.5             | -          | -          | -         | -          | 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               | 10              | -          | -          | -         | -          | 37.44           | -               | -          | 15.56     | 15.50      | 8.06        | -               | -          | 10.19     | 10.25      | 5.51          | 252          | -               | -          | 122       | 125        | -          | -          | 374       | 377        |
| 66SV-5/1               |                 | -          | -          | -         | -          | 37.44           | -               | -          | 15.56     | 15.50      | 8.06        | -               | -          | 10.19     | 10.25      | 5.51          | 252          | -               | -          | 122       | 125        | -          | -          | 374       | 377        |
| 66SV-5                 |                 | -          | -          | -         | -          | 37.44           | -               | -          | 15.56     | 15.50      | 8.06        | -               | -          | 10.19     | 10.25      | 5.51          | 252          | -               | -          | 122       | 125        | -          | -          | 374       | 377        |
| 66SV-6/2               | 10              | -          | -          | -         | -          | 40.94           | -               | -          | 15.56     | 15.50      | 8.06        | -               | -          | 10.19     | 10.25      | 5.51          | 266          | -               | -          | 122       | 125        | -          | -          | 388       | 391        |
| 66SV-6/1               |                 | -          | -          | -         | -          | 40.94           | -               | -          | 15.56     | 15.50      | 8.06        | -               | -          | 10.19     | 10.25      | 5.51          | 266          | -               | -          | 125       | 129        | -          | -          | 391       | 395        |
| 66SV-6                 |                 | -          | -          | -         | -          | 40.94           | -               | -          | 15.56     | 15.50      | 8.06        | -               | -          | 10.19     | 10.25      | 5.51          | 266          | -               | -          | 125       | 129        | -          | -          | 391       | 395        |

### Performance Curve

**66SV 1750 RPM**

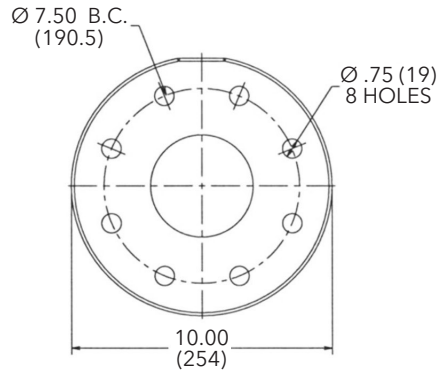
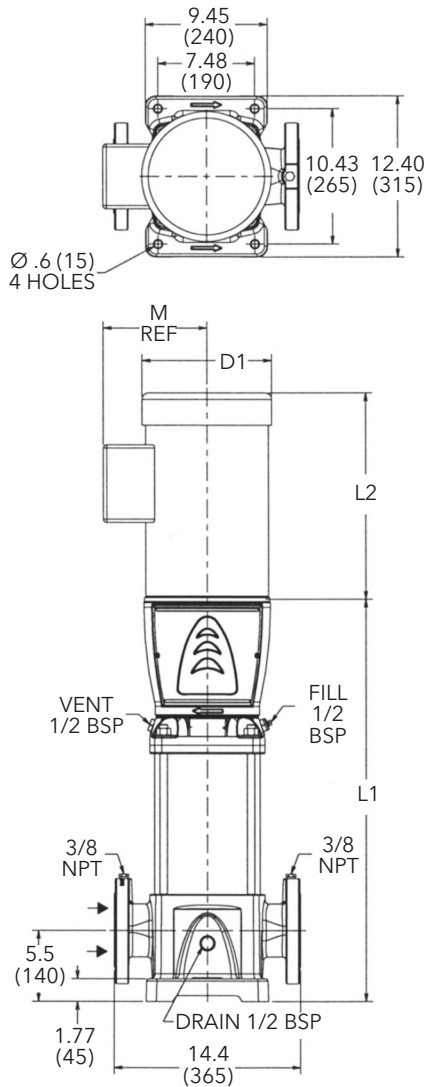
**60 Hz**



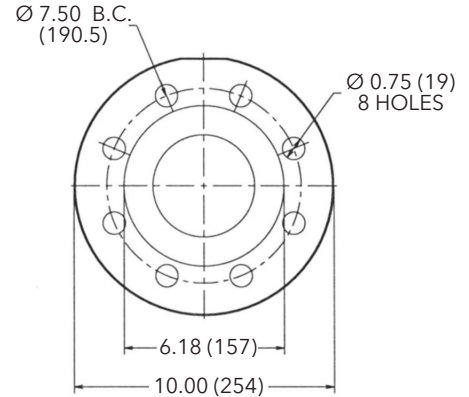
### Dimensions and Weights

### 92SV Series 1750 RPM

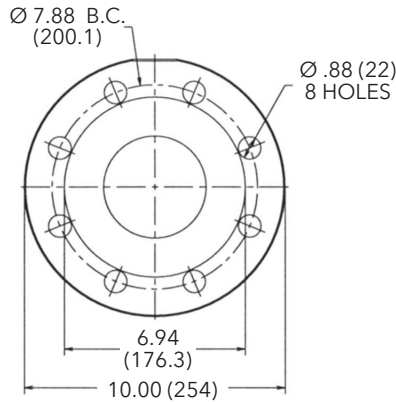
60 Hz



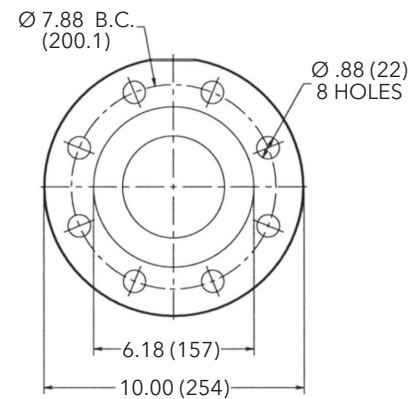
**Cast Iron**  
**4" Class 125 F.F.**



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



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

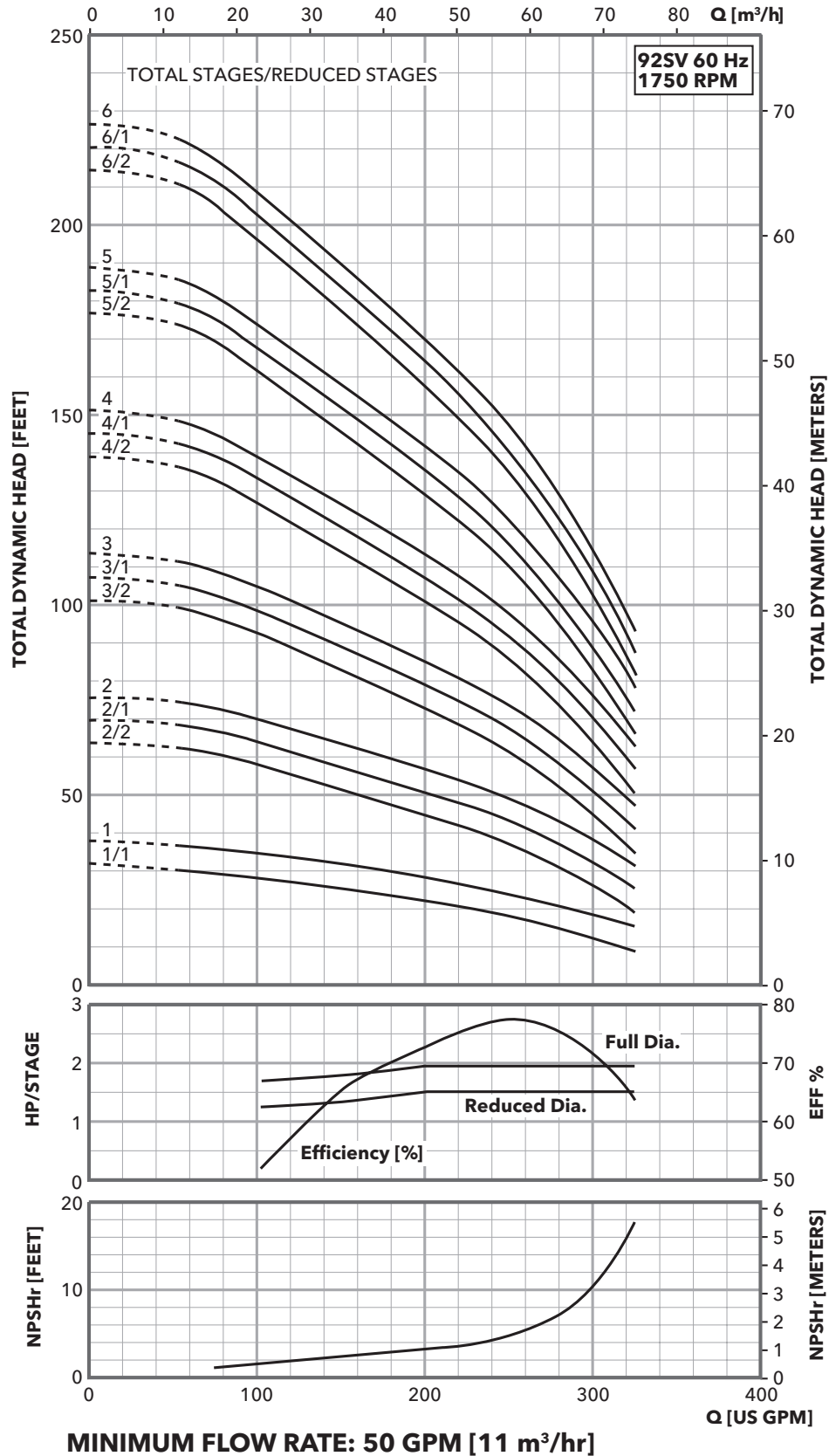


**316SS**  
**4" Class 300 R.F.**

All dimensions are in inches (mm).

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

| Pump<br>Type<br>Stages | Motor |            |            |           |            | Dimensions (in) |           |            |           |            |             |           |            |           |            |     | Weight (lbs.) |           |            |           |            |            |            |           |            |
|------------------------|-------|------------|------------|-----------|------------|-----------------|-----------|------------|-----------|------------|-------------|-----------|------------|-----------|------------|-----|---------------|-----------|------------|-----------|------------|------------|------------|-----------|------------|
|                        | HP    | NEMA Frame |            |           |            | L1              | L2        |            |           |            | M<br>(Ref.) | D1 (max.) |            |           |            | D2  | Pump<br>Only  | Motor     |            |           |            | Pump/Motor |            |           |            |
|                        |       | ODP<br>10  | TEFC<br>10 | ODP<br>30 | TEFC<br>30 |                 | ODP<br>10 | TEFC<br>10 | ODP<br>30 | TEFC<br>30 |             | ODP<br>10 | TEFC<br>10 | ODP<br>30 | TEFC<br>30 |     |               | ODP<br>10 | TEFC<br>10 | ODP<br>30 | TEFC<br>30 | ODP<br>10  | TEFC<br>10 | ODP<br>30 | TEFC<br>30 |
|                        |       |            |            |           |            |                 |           |            |           |            |             |           |            |           |            |     |               |           |            |           |            |            |            |           |            |
| 92SV-1                 | 3     | -          | -          | 182TC     | 23.19      | -               | -         | 15.56      | 16.56     | 9.25       | -           | -         | 10.19      | 10.31     | 5.51       | 185 | -             | -         | 61         | 62        | -          | -          | 246        | 247       |            |
| 92SV-2/2               |       | -          | -          |           | 26.75      | -               | -         | 15.56      | 16.56     | 9.25       | -           | -         | 10.19      | 10.31     | 5.51       | 196 | -             | -         | 61         | 62        | -          | -          | 257        | 258       |            |
| 92SV-2/1               | 5     | -          | -          | 184TC     | 26.75      | -               | -         | 15.56      | 16.56     | 9.25       | -           | -         | 10.19      | 10.31     | 5.51       | 196 | -             | -         | 61         | 62        | -          | -          | 257        | 258       |            |
| 92SV-2                 |       | -          | -          |           | 26.75      | -               | -         | 15.56      | 16.56     | 9.25       | -           | -         | 10.19      | 10.31     | 5.51       | 196 | -             | -         | 68         | 75        | -          | -          | 264        | 271       |            |
| 92SV-3/2               |       | -          | -          |           | 30.81      | -               | -         | 15.56      | 16.56     | 9.25       | -           | -         | 10.19      | 10.31     | 5.51       | 223 | -             | -         | 68         | 75        | -          | -          | 291        | 298       |            |
| 92SV-3/1               |       | -          | -          |           | 30.81      | -               | -         | 15.56      | 16.56     | 9.25       | -           | -         | 10.19      | 10.31     | 5.51       | 223 | -             | -         | 68         | 75        | -          | -          | 291        | 298       |            |
| 92SV-3                 |       | -          | -          |           | 30.81      | -               | -         | 15.56      | 16.56     | 9.25       | -           | -         | 10.19      | 10.31     | 5.51       | 223 | -             | -         | 68         | 75        | -          | -          | 291        | 298       |            |
| 92SV-4/2               | 7.5   | -          | -          | 213TC     | 34.38      | -               | -         | 15.56      | 15.50     | 8.06       | -           | -         | 10.19      | 10.25     | 5.51       | 234 | -             | -         | 122        | 125       | -          | -          | 356        | 359       |            |
| 92SV-4/1               |       | -          | -          |           | 34.38      | -               | -         | 15.56      | 15.50     | 8.06       | -           | -         | 10.19      | 10.25     | 5.51       | 234 | -             | -         | 122        | 125       | -          | -          | 356        | 359       |            |
| 92SV-4                 |       | -          | -          |           | 34.38      | -               | -         | 15.56      | 15.50     | 8.06       | -           | -         | 10.19      | 10.25     | 5.51       | 234 | -             | -         | 122        | 125       | -          | -          | 356        | 359       |            |
| 92SV-5/2               |       | -          | -          |           | 37.44      | -               | -         | 15.56      | 15.50     | 8.06       | -           | -         | 10.19      | 10.25     | 5.51       | 252 | -             | -         | 122        | 125       | -          | -          | 374        | 377       |            |
| 92SV-5/1               | 10    | -          | -          | 215TC     | 37.44      | -               | -         | 15.56      | 15.50     | 8.06       | -           | -         | 10.19      | 10.25     | 5.51       | 252 | -             | -         | 125        | 129       | -          | -          | 377        | 381       |            |
| 92SV-5                 |       | -          | -          |           | 37.44      | -               | -         | 15.56      | 15.50     | 8.06       | -           | -         | 10.19      | 10.25     | 5.51       | 252 | -             | -         | 125        | 129       | -          | -          | 377        | 381       |            |
| 92SV-6/2               |       | -          | -          |           | 40.94      | -               | -         | 15.56      | 15.50     | 8.06       | -           | -         | 10.19      | 10.25     | 5.51       | 266 | -             | -         | 125        | 129       | -          | -          | 391        | 395       |            |
| 92SV-6/1               |       | -          | -          |           | 40.94      | -               | -         | 15.56      | 15.50     | 8.06       | -           | -         | 10.19      | 10.25     | 5.51       | 266 | -             | -         | 125        | 129       | -          | -          | 391        | 395       |            |
| 92SV-6                 |       | -          | -          |           | 40.94      | -               | -         | 15.56      | 15.50     | 8.06       | -           | -         | 10.19      | 10.25     | 5.51       | 266 | -             | -         | 125        | 129       | -          | -          | 391        | 395       |            |

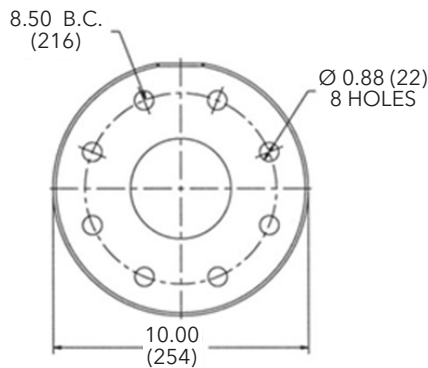
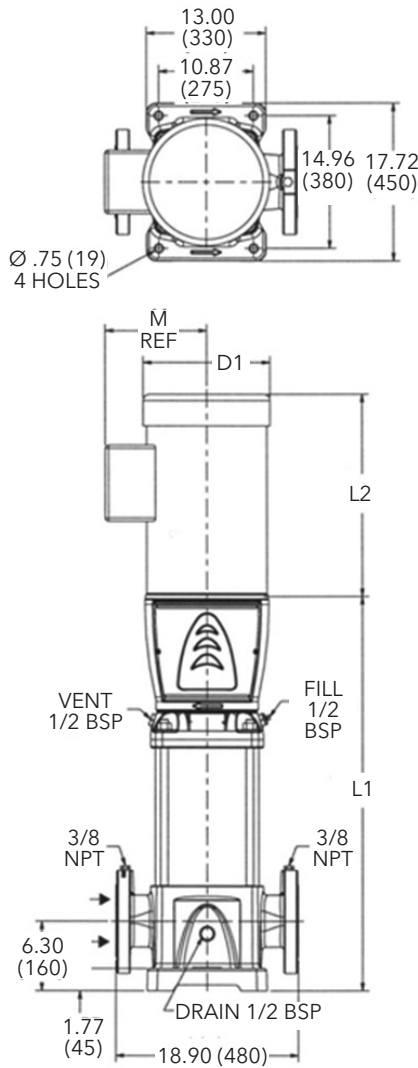


## Commercial Water

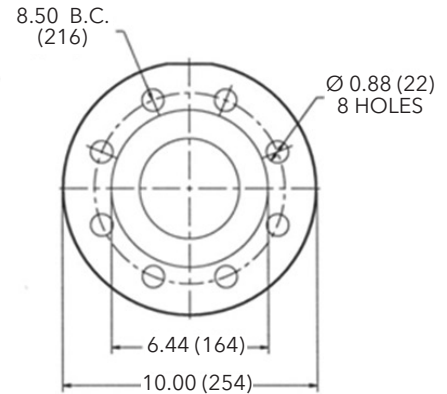
### Dimensions and Weights

### 125SV Series 1750 RPM

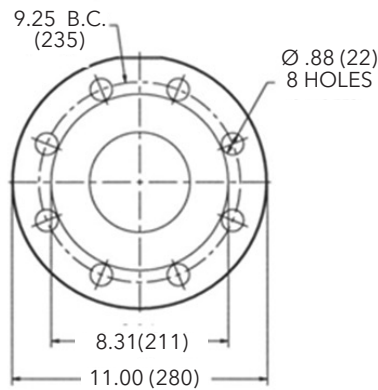
60 Hz



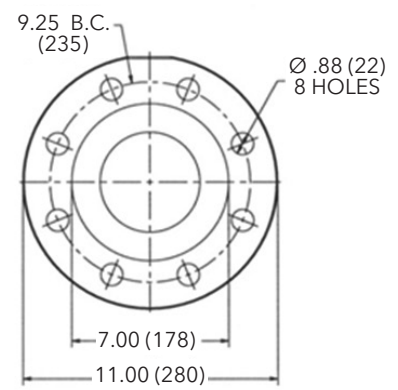
**Cast Iron**  
**5" Class 125 F.F.**



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



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



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

All dimensions are in inches (mm).

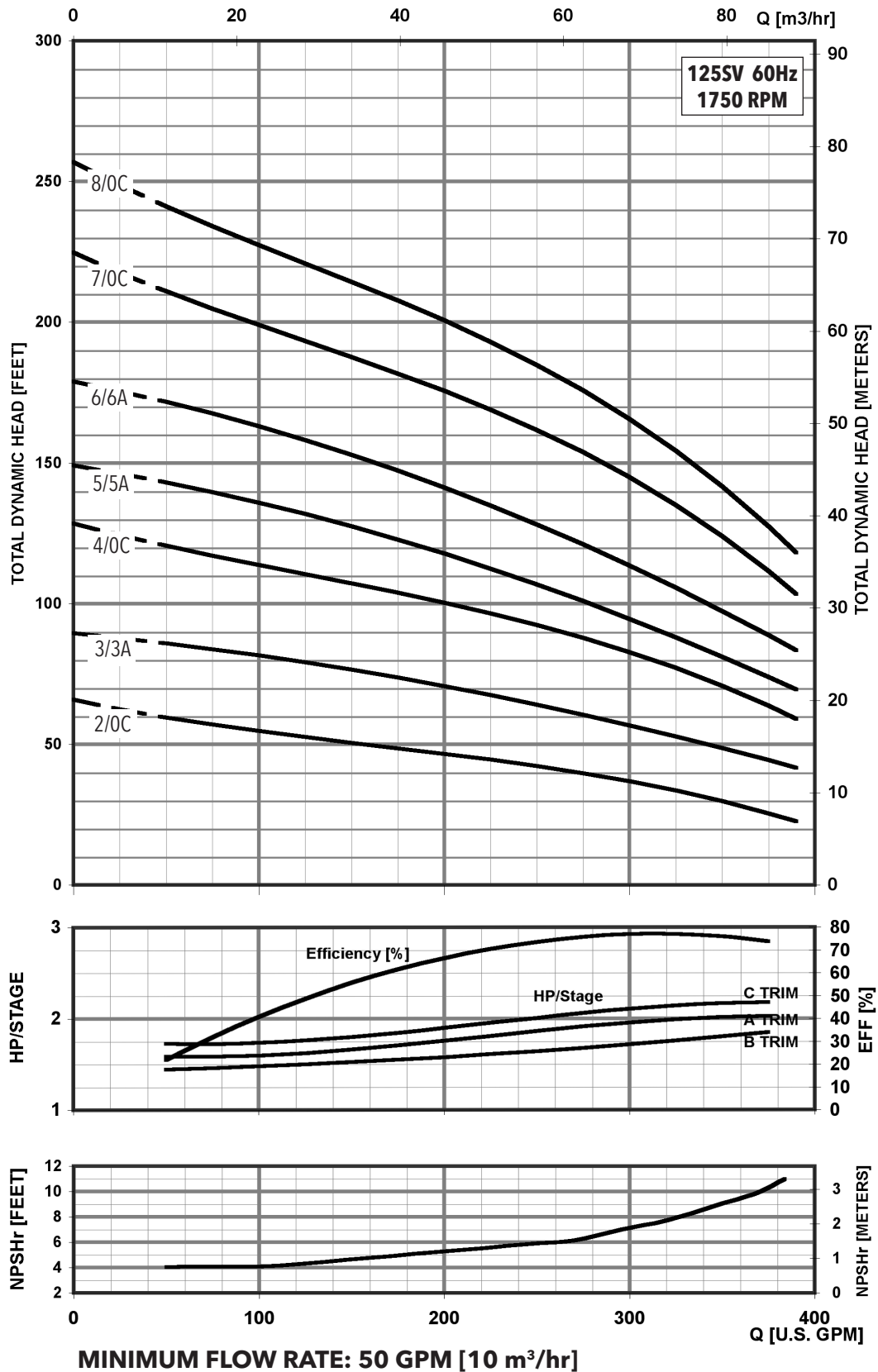
### 125SV SERIES – 60Hz, 1750 RPM ODP/TEFC Enclosures

| 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 |
| 125SV/20C | 5   | 184TC      | 184TC   | 182TC  | 184TC   | 34.60           | 13.93  | 15.43   | 12.55  | 13.93   | -  | -  | -  | -  | 6.87     | 8.88      | 8.86    | 9.02   | 8.86    | 5.51          | 289  | 81     | 92      | 62     | 69      | 370        | 381     | 351    | 358     |
| 125SV/30A | 5   | 184TC      | 184TC   | 182TC  | 184TC   | 40.50           | 13.93  | 15.43   | 12.55  | 13.93   | -  | -  | -  | -  | 6.87     | 8.88      | 8.86    | 9.02   | 8.86    | 5.51          | 315  | 81     | 92      | 62     | 69      | 396        | 407     | 377    | 384     |
| 125SV/40C | 7.5 | 213TC      | 213TC   | 184TC  | 184TC   | 46.40           | 13.88  | 15.53   | 13.93  | 15.43   | -  | -  | -  | -  | 8.05     | 8.89      | 10.62   | 8.88   | 8.86    | 5.51          | 355  | 100    | 120     | 75     | 85      | 455        | 475     | 430    | 440     |
| 125SV/55A | 10  | 215TC      | 215TC   | 213TC  | 215TC   | 52.30           | 16.63  | 16.68   | 15.55  | 15.51   | -  | -  | -  | -  | 8.77     | 10.62     | 10.18   | 10.18  | 10.28   | 5.51          | 379  | 132    | 145     | 107    | 122     | 511        | 524     | 486    | 501     |
| 125SV/66A | 10  | 215TC      | 215TC   | 213TC  | 215TC   | 58.20           | 16.63  | 16.68   | 15.55  | 15.51   | -  | -  | -  | -  | 8.77     | 10.62     | 10.18   | 10.18  | 10.28   | 5.51          | 412  | 132    | 145     | 107    | 122     | 544        | 557     | 519    | 534     |
| 125SV/70C | 15  | -          | -       | 215TC  | 254TC   | 65.30           | -      | -       | 15.55  | 16.57   | -  | -  | -  | -  | 9.22     | -         | -       | 10.18  | 10.28   | 5.51          | 476  | -      | -       | 125    | 195     | -          | -       | 601    | 671     |
| 125SV/80C | 15  | -          | -       | 215TC  | 254TC   | 71.10           | -      | -       | 15.55  | 16.57   | -  | -  | -  | -  | 9.22     | -         | -       | 10.18  | 10.28   | 5.51          | 494  | -      | -       | 125    | 195     | -          | -       | 619    | 689     |

### Performance Curve

**125SV 1750 RPM**

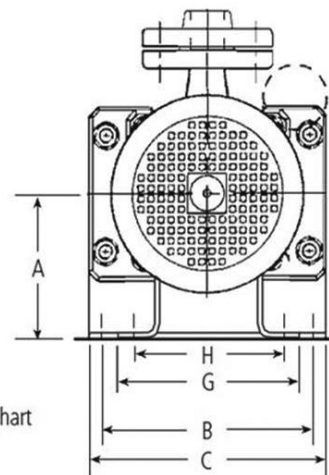
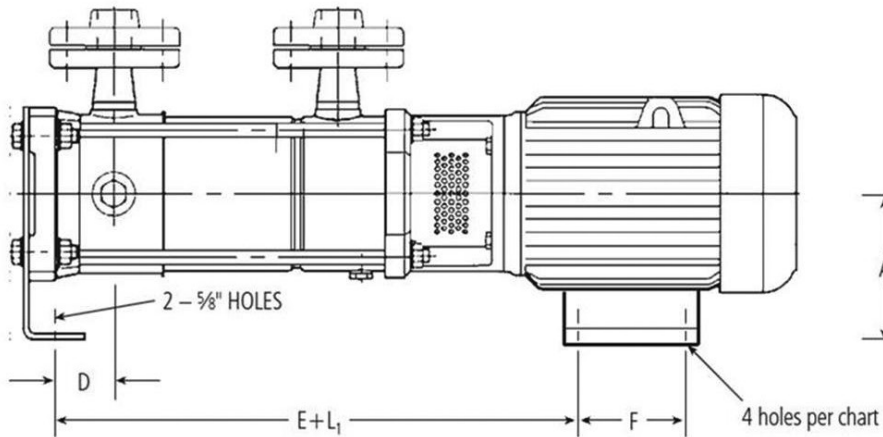
**60 Hz**



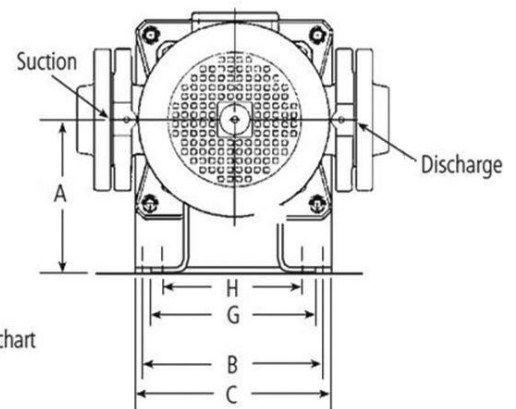
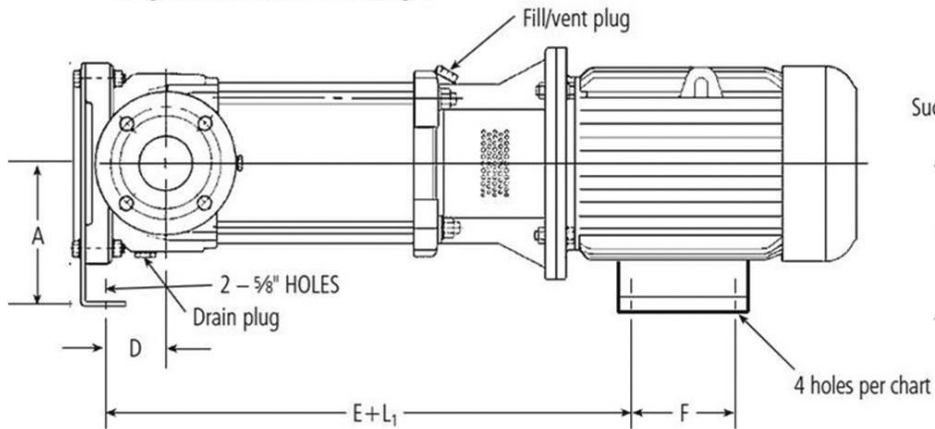
## Commercial Water

### 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.

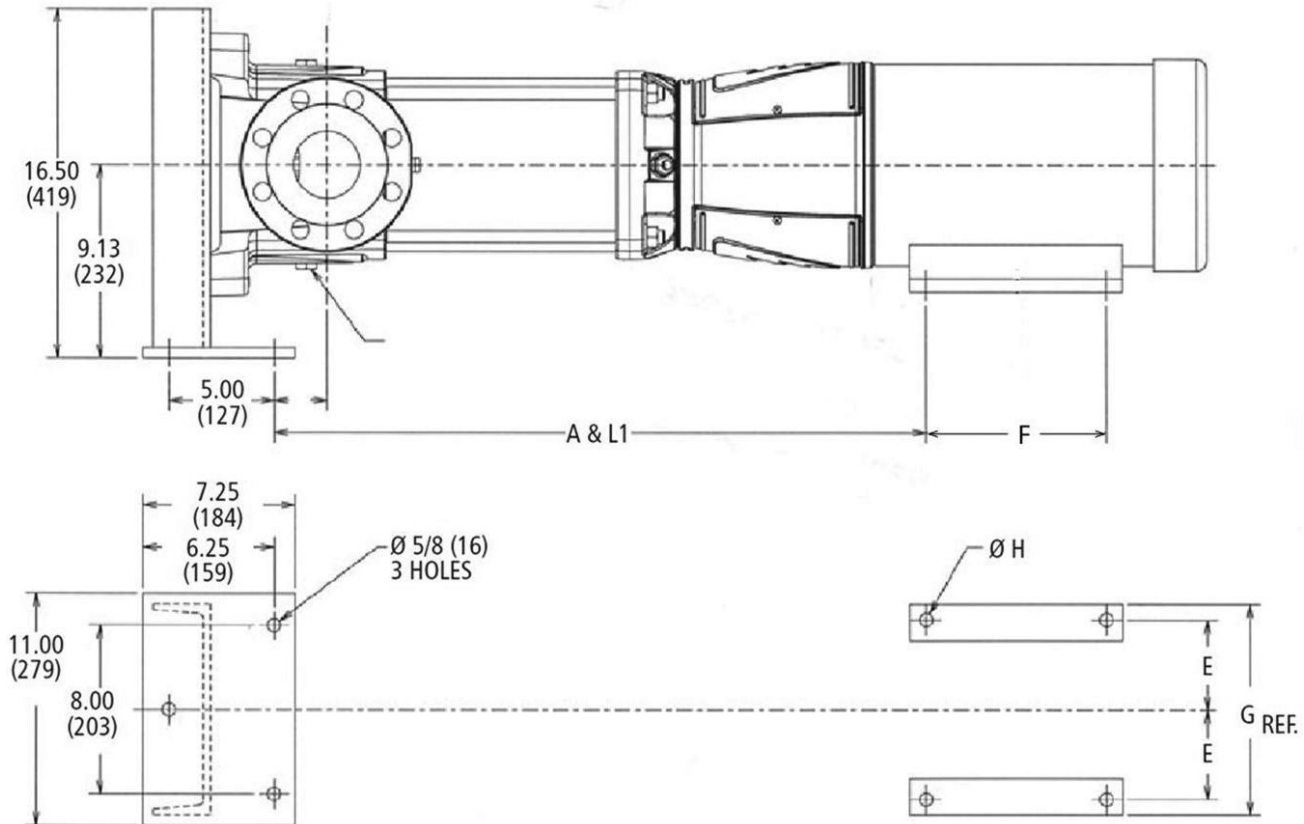


### 1SV - 22SV HORIZONTAL MOUNTING OPTION

| 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

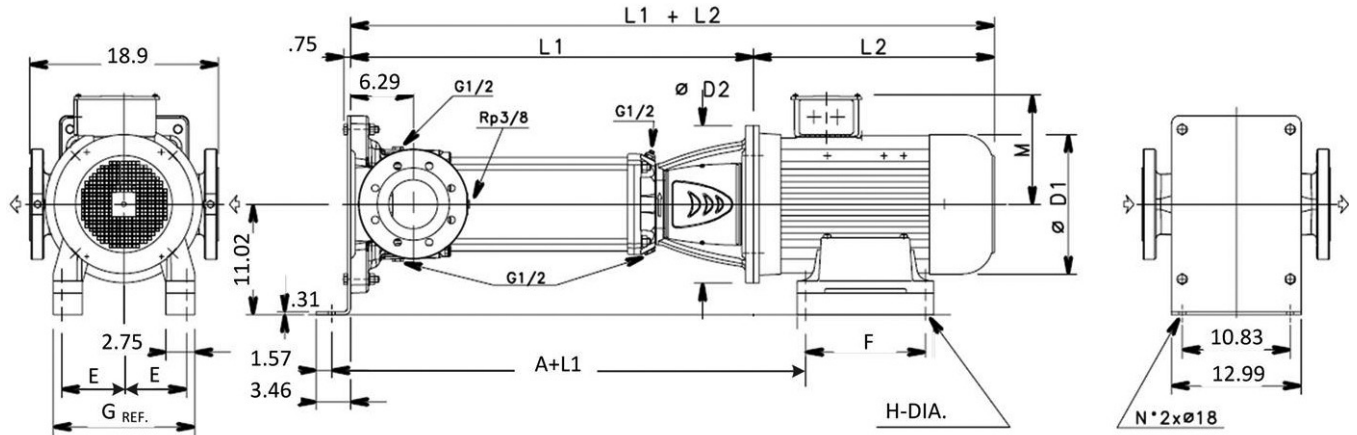
- Consists of e-SV pump with base mounting foot and footed motor for horizontal installations.
- Unit depicted may not show actual pump configuration. Use for mounting location only.



| 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 | 17/32    |
|            | 256TC       |        |      |      |      | 5    |       |          |
|            | 284TC       |        | 1.75 |      | 5.5  | 4.75 | 12.25 |          |
|            | 286TC       |        |      |      |      | 5.5  |       |          |
|            | 324TSC      |        | 2.25 |      | 6.25 | 5.25 | 16    | 21/32    |
|            | 326TSC      |        |      |      |      | 6    |       |          |
|            | 364TSC      |        | 2.88 |      | 7    | 5.63 | 18    |          |
|            | 365TSC      |        |      |      |      | 6.12 |       |          |
| 46/66/92SV | 182TC       | G, N   | 0.5  | 2.5  | 3.7  | 2.25 | 8.63  | 13/32    |
|            | 184TC       |        |      |      |      | 2.75 |       |          |
|            | 213TC       |        | 1.25 |      | 4.25 | 2.75 | 9.5   |          |
|            | 215TC       |        |      |      |      | 3.5  |       |          |
|            | 254TC       |        | 1.75 |      | 5    | 4.12 | 11.25 | 17/32    |
|            | 256TC       |        |      |      |      | 5    |       |          |
|            | 284TC       |        | 1.75 |      | 5.5  | 4.75 | 16.5  |          |
|            | 286TC       |        |      |      |      | 5.5  |       |          |
|            | 324TSC      |        | 2.25 |      | 6.25 | 5.25 | 15.25 | 21/32    |
|            | 326TSC      |        |      |      |      | 6    |       |          |
|            | 364TSC      |        | 2.88 |      | 7    | 5.63 | 17    |          |
|            | 365TSC      |        |      |      |      | 6.12 |       |          |

### 125SV HORIZONTAL MOUNTING OPTION

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



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

### Technical Data - Pump Hydraulics / Motor Sizing

#### 1SV 3500 RPM

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

#### 3SV 3500 RPM

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

### TECHNICAL DATA - PUMP HYDRAULICS / MOTOR SIZING

#### 5SV 3500 RPM

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

#### 10SV 3500 RPM

| No. of Impellers | Maximum HP draw | Motor Selection using SF |                  |       | Motor Selection 1.0 SF |                  |       | Shutoff TDH (Feet) | Shutoff TDH (psi) | Shutoff TDH (Bar) | Casing/Sleeve Pressure Rating (standard assy.) | Pump Flange Rating |                 |
|------------------|-----------------|--------------------------|------------------|-------|------------------------|------------------|-------|--------------------|-------------------|-------------------|------------------------------------------------|--------------------|-----------------|
|                  |                 | Rated HP                 | NEMA Motor Frame |       | Rated HP               | NEMA Motor Frame |       |                    |                   |                   |                                                |                    |                 |
|                  |                 |                          | ODP              | TEFC  |                        | ODP              | TEFC  |                    |                   |                   |                                                |                    |                 |
| 20               | 17.84           | 20.00                    | 254TC            | 256TC | 20.00                  | 254TC            | 256TC | 1150               | 498               | 34.3              | 40 Bar (580 psi)                               | Vitaallic          |                 |
| 19               | 16.95           | 15.00                    | 215TC            | 254TC |                        | 254TC            | 256TC | 1095               | 474               | 32.7              |                                                |                    |                 |
| 18               | 16.06           |                          | 215TC            | 254TC |                        | 254TC            | 256TC | 1035               | 448               | 30.9              |                                                |                    |                 |
| 17               | 15.16           |                          | 215TC            | 254TC |                        | 254TC            | 256TC | 975                | 422               | 29.1              |                                                |                    |                 |
| 16               | 14.27           |                          | 10.00            | 215TC | 254TC                  | 15.00            | 215TC | 254TC              | 920               | 398               | 27.5                                           | 25 Bar (362 psi)   | Class 250 / 300 |
| 15               | 13.38           | 215TC                    |                  | 254TC | 215TC                  |                  | 254TC | 860                | 372               | 25.7              |                                                |                    |                 |
| 14               | 12.49           | 7.50                     |                  | 215TC | 215TC                  |                  | 215TC | 254TC              | 805               | 349               | 24.0                                           |                    |                 |
| 13               | 11.60           |                          |                  | 215TC | 215TC                  |                  | 215TC | 254TC              | 745               | 323               | 22.2                                           |                    |                 |
| 12               | 10.70           |                          | 215TC            | 215TC | 215TC                  | 254TC            | 690   | 299                | 20.6              |                   |                                                |                    |                 |
| 11               | 9.81            |                          | 215TC            | 215TC | 215TC                  | 215TC            | 630   | 273                | 18.8              |                   |                                                |                    |                 |
| 10               | 8.92            | 5.00                     | 215TC            | 215TC | 10.00                  | 215TC            | 215TC | 575                | 249               | 17.2              |                                                |                    |                 |
| 9                | 8.03            |                          | 213TC            | 213TC |                        | 215TC            | 215TC | 520                | 225               | 15.5              |                                                |                    |                 |
| 8                | 7.14            |                          | 213TC            | 213TC |                        | 213TC            | 213TC | 460                | 199               | 13.7              |                                                |                    |                 |
| 7                | 6.24            |                          | 213TC            | 213TC |                        | 213TC            | 213TC | 400                | 173               | 11.9              |                                                |                    |                 |
| 6                | 5.35            | 3.00                     | 184TC            | 184TC | 7.50                   | 213TC            | 213TC | 340                | 147               | 10.1              |                                                |                    |                 |
| 5                | 4.46            |                          | 184TC            | 184TC |                        | 184TC            | 184TC | 285                | 123               | 8.5               |                                                |                    |                 |
| 4                | 3.57            |                          | 184TC            | 184TC |                        | 184TC            | 184TC | 225                | 97                | 6.7               |                                                |                    |                 |
| 3                | 2.68            |                          | 56C              | 56C   |                        | 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 |                        | 254TC            | 284TC | 915                | 396               | 27.3              |                                                |                    |     |
| 12               | 22.80           | 20.00                    | 254TC            | 256TC | 25.00                  | 254TC            | 284TC | 850                | 368               | 25.4              | 25 Bar (362 psi)                               |                    |     |
| 11               | 20.90           |                          | 254TC            | 256TC |                        | 254TC            | 284TC | 780                | 338               | 23.3              |                                                |                    |     |
| 10               | 19.00           |                          | 254TC            | 256TC |                        | 254TC            | 256TC | 705                | 305               | 21.0              |                                                |                    |     |
| 9                | 17.10           | 15.00                    | 215TC            | 254TC | 20.00                  | 254TC            | 256TC | 635                | 275               | 18.9              | 25 Bar (362 psi)                               |                    |     |
| 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 | 15.00                  | 215TC            | 254TC | 420                | 182               | 12.5              | 25 Bar (362 psi)                               |                    |     |
| 5                | 9.50            |                          | 215TC            | 215TC |                        | 215TC            | 215TC | 345                | 149               | 10.3              |                                                |                    |     |
| 4                | 7.60            |                          | 213TC            | 213TC |                        | 215TC            | 215TC | 275                | 119               | 8.2               |                                                |                    |     |
| 3                | 5.70            | 5.00                     | 184TC            | 184TC | 7.50                   | 213TC            | 213TC | 210                | 91                | 6.3               | 25 Bar (362 psi)                               |                    |     |
| 2                | 3.80            |                          | 184TC            | 184TC |                        | 5.00             | 184TC | 184TC              | 140               | 61                |                                                |                    | 4.2 |
| 1                | 1.90            |                          | 2.00             | 56C   |                        | 56C              | 2.00  | 56C                | 56C               | 70                |                                                |                    | 30  |

## 22SV 3500 RPM

| No. of Impellers | Maximum HP draw | Motor Selection using SF |                  |       | Motor Selection 1.0 SF |                  |       | Shutoff TDH (Feet) | Shutoff TDH (psi) | Shutoff TDH (Bar) | Casing/Sleeve Pressure Rating (standard assy.) | Pump Flange Rating |
|------------------|-----------------|--------------------------|------------------|-------|------------------------|------------------|-------|--------------------|-------------------|-------------------|------------------------------------------------|--------------------|
|                  |                 | Rated HP                 | NEMA Motor Frame |       | Rated HP               | NEMA Motor Frame |       |                    |                   |                   |                                                |                    |
|                  |                 |                          | ODP              | TEFC  |                        | ODP              | TEFC  |                    |                   |                   |                                                |                    |
| 12               | 28.92           | 25.00                    | 254TC            | 284TC | 30.00                  | 284TC            | 286TC | 880                | 381               | 26.3              | 25 Bar (362 psi)                               | Class 250 / 300    |
| 11               | 26.51           |                          | 254TC            | 284TC |                        | 284TC            | 286TC | 810                | 351               | 24.2              |                                                |                    |
| 10               | 24.10           |                          | 254TC            | 284TC |                        | 254TC            | 284TC | 735                | 318               | 21.9              |                                                |                    |
| 9                | 21.69           | 20.00                    | 254TC            | 256TC | 25.00                  | 254TC            | 284TC | 660                | 286               | 19.7              |                                                |                    |
| 8                | 19.28           |                          | 254TC            | 256TC |                        | 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              |                                                |                    |
| 5                | 12.05           |                          | 215TC            | 254TC |                        | 215TC            | 254TC | 365                | 158               | 10.9              |                                                |                    |
| 4                | 9.64            |                          | 215TC            | 215TC |                        | 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 /<br># reduced<br>Diameter | Maximum HP<br>Draw | Motor HP for use<br>with 1.15 SF<br>Motor | Motor HP for use<br>with Hydrovar<br>(1.0 SF) | Shutoff TDH<br>(Feet) | Shutoff TDH<br>(Bar) | Casing / Sleeve<br>Pressure rating<br>(Standard Assy.) | Stages requiring<br>Thrust Balancing<br>Piston | Pump Flange<br>Rating |
|-------------------------------------------|--------------------|-------------------------------------------|-----------------------------------------------|-----------------------|----------------------|--------------------------------------------------------|------------------------------------------------|-----------------------|
| 10                                        | 54.3               | 50                                        | 60                                            | 1125                  | 34                   | 40 Bar (580 PSI)                                       | Thrust Piston<br>Required                      | Class 250 / 300       |
| 10/2                                      | 52.8               |                                           |                                               | 1096                  | 33                   |                                                        |                                                |                       |
| 10/1                                      | 51.3               |                                           |                                               | 1066                  | 32                   |                                                        |                                                |                       |
| 9                                         | 48.8               |                                           | 50                                            | 1012                  | 30                   |                                                        |                                                |                       |
| 9/1                                       | 47.4               |                                           |                                               | 983                   | 29                   |                                                        |                                                |                       |
| 9/2                                       | 45.9               |                                           |                                               | 954                   | 28                   |                                                        |                                                |                       |
| 8                                         | 43.4               | 40                                        |                                               | 900                   | 27                   |                                                        |                                                |                       |
| 8/1                                       | 41.9               |                                           |                                               | 871                   | 26                   |                                                        |                                                |                       |
| 8/2                                       | 40.5               |                                           |                                               | 842                   | 25                   |                                                        |                                                |                       |
| 7                                         | 38                 |                                           | 40                                            | 787                   | 23                   |                                                        |                                                |                       |
| 7/1                                       | 36.5               |                                           |                                               | 758                   | 23                   |                                                        |                                                |                       |
| 7/2                                       | 35                 |                                           |                                               | 729                   | 22                   |                                                        |                                                |                       |
| 6                                         | 32.6               | 30                                        |                                               | 576                   | 20                   |                                                        |                                                |                       |
| 6/1                                       | 31.1               |                                           |                                               | 646                   | 19                   |                                                        |                                                |                       |
| 6/2                                       | 29.6               |                                           |                                               | 617                   | 18                   |                                                        |                                                |                       |
| 5                                         | 27.1               |                                           | 30                                            | 562                   | 17                   |                                                        |                                                |                       |
| 5/1                                       | 25.7               |                                           |                                               | 533                   | 16                   |                                                        |                                                |                       |
| 5/2                                       | 24.2               |                                           |                                               | 25                    | 504                  | 15                                                     |                                                |                       |
| 4                                         | 21.7               | 25                                        | 450                                           |                       | 13                   |                                                        |                                                |                       |
| 4/1                                       | 20.2               |                                           | 20                                            |                       | 421                  | 13                                                     |                                                |                       |
| 4/2                                       | 18.8               |                                           |                                               | 392                   | 12                   |                                                        |                                                |                       |
| 3                                         | 16.3               | 20                                        |                                               | 337                   | 10                   |                                                        |                                                |                       |
| 3/1                                       | 14.7               |                                           | 15                                            | 310                   | 9                    |                                                        |                                                |                       |
| 3/2                                       | 13.2               |                                           |                                               | 281                   | 8                    |                                                        |                                                |                       |
| 2                                         | 10.9               | 10                                        |                                               | 225                   | 7                    |                                                        |                                                |                       |
| 2/1                                       | 9.4                |                                           | 10                                            | 196                   | 6                    |                                                        |                                                |                       |
| 2/2                                       | 7.9                |                                           |                                               | 167                   | 5                    |                                                        |                                                |                       |
| 1                                         | 5.4                | 7.5                                       | 7.5                                           | 113                   | 3                    | 25 Bar (362 PSI)<br>①                                  |                                                | Class 125 / 150       |
| 1/1                                       | 4                  | 5                                         | 5                                             | 84                    | 3                    |                                                        |                                                |                       |

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

### TECHNICAL DATA - PUMP HYDRAULICS / MOTOR SIZING

#### 46SV 3500 RPM

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

#### 66SV 3500 RPM

| # of Impellers /<br># reduced<br>Diameter | Maximum HP<br>Draw | Motor HP for use<br>with 1.15 SF<br>Motor | Motor HP for use<br>with Hydrovar<br>(1.0 SF) | Shutoff TDH<br>(Feet) | Shutoff TDH<br>(Bar) | Casing / Sleeve<br>Pressure rating<br>(Standard Assy.) | Stages requiring<br>Thrust Balancing<br>Piston | Pump Flange<br>Rating |
|-------------------------------------------|--------------------|-------------------------------------------|-----------------------------------------------|-----------------------|----------------------|--------------------------------------------------------|------------------------------------------------|-----------------------|
| 6                                         | 73.2               | 75                                        | 75                                            | 850                   | 25.4                 | 40 Bar (580 PSI)                                       | Thrust Piston<br>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                 | 25 Bar (362 PSI)<br>①                                  |                                                |                       |
| 5/1                                       | 58                 |                                           |                                               | 681                   | 20.3                 |                                                        |                                                |                       |
| 5/2                                       | 55                 |                                           |                                               | 655                   | 19.6                 |                                                        |                                                |                       |
| 4                                         | 48.8               | 50                                        | 50                                            | 566                   | 16.9                 |                                                        |                                                |                       |
| 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               | 20                                        |                                               | 257                   | 7.7                  |                                                        |                                                |                       |
| 2/2                                       | 18.4               |                                           |                                               | 230                   | 6.9                  |                                                        |                                                |                       |
| 1                                         | 12.2               |                                           | 15                                            | 15                    | 142                  |                                                        |                                                |                       |
| 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 /<br># reduced<br>Diameter | Maximum HP<br>Draw | Motor HP for use<br>with 1.15 SF<br>Motor | Motor HP for use<br>with Hydrovar<br>(1.0 SF) | Shutoff TDH<br>(Feet) | Shutoff TDH<br>(Bar) | Casing / Sleeve<br>Pressure rating<br>(Standard Assy.) | Stages requiring<br>Thrust Balancing<br>Piston | Pump Flange<br>Rating |
|-------------------------------------------|--------------------|-------------------------------------------|-----------------------------------------------|-----------------------|----------------------|--------------------------------------------------------|------------------------------------------------|-----------------------|
| 5/1                                       | 73.8               | 75                                        | 75                                            | 732                   | 21.9                 | 25 Bar (362 PSI)<br>①                                  | Thrust Piston<br>Required                      | Class 250 / 300       |
| 5/2                                       | 70.3               |                                           |                                               | 707                   | 21.1                 |                                                        |                                                |                       |
| 4                                         | 61.9               |                                           |                                               | 605                   | 18.1                 |                                                        |                                                |                       |
| 4/1                                       | 58.3               | 60                                        | 60                                            | 580                   | 17.3                 |                                                        |                                                |                       |
| 4/2                                       | 54.8               |                                           |                                               | 556                   | 16.6                 |                                                        |                                                |                       |
| 3                                         | 46.5               | 50                                        | 50                                            | 454                   | 13.6                 |                                                        |                                                | Class 125 / 150       |
| 3/1                                       | 42.9               | 40                                        | 40                                            | 429                   | 12.8                 |                                                        |                                                |                       |
| 3/2                                       | 39.4               |                                           |                                               | 405                   | 12.1                 |                                                        |                                                |                       |
| 2                                         | 31                 |                                           |                                               | 305                   | 9.1                  |                                                        |                                                |                       |
| 2/1                                       | 27.4               | 30                                        | 30                                            | 278                   | 8.3                  |                                                        |                                                |                       |
| 2/2                                       | 23.4               |                                           |                                               | 253                   | 7.6                  |                                                        |                                                |                       |
| 1                                         | 15.5               | 15                                        | 20                                            | 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<br>Impellers | Maximum<br>HP draw | Motor Selection using SF |                     |        | Motor Selection 1.0 SF |                     |        | Shutoff TDH<br>(Feet) | Shutoff TDH<br>(psi) | Shutoff TDH<br>(Bar) | Casing/Sleeve<br>Pressure Rating<br>(standard assy.) | Pump Flange<br>Rating |
|---------------------|--------------------|--------------------------|---------------------|--------|------------------------|---------------------|--------|-----------------------|----------------------|----------------------|------------------------------------------------------|-----------------------|
|                     |                    | Rated HP                 | NEMA<br>Motor Frame |        | Rated HP               | NEMA<br>Motor Frame |        |                       |                      |                      |                                                      |                       |
|                     |                    |                          | ODP                 | TEFC   |                        | ODP                 | TEFC   |                       |                      |                      |                                                      |                       |
| 5/0C                | 82.32              | 75                       | 364TSC              | 365TSC | Contact Factory        |                     |        | 643                   | 278                  | 19.2                 | 25 Bar (362 psi)                                     | Class 250 / 300       |
| 5/5B                | 67.84              | 60                       | 324TSC              | 326TSC | 75                     | 364TSC              | 365TSC | 555                   | 240                  | 16.6                 |                                                      |                       |
| 4/3B                | 57.35              | 50                       | 324TSC              | 326TSC | 60                     | 324TSC              | 326TSC | 461                   | 200                  | 13.8                 |                                                      |                       |
| 3/3A                | 45.60              | 40                       | 286TC               | 286TC  | 50                     | 324TSC              | 326TSC | 358                   | 155                  | 10.7                 |                                                      | Class 125 / 150       |
| 2/0C                | 34.79              | 30                       | 284TC               | 286TC  | 40                     | 286TC               | 286TC  | 263                   | 114                  | 7.8                  |                                                      |                       |
| 1/0C                | 17.40              | 15                       | 215TC               | 254TC  | 20                     | 254TC               | 256TC  | 131                   | 57                   | 3.9                  |                                                      |                       |

### TECHNICAL DATA - PUMP HYDRAULICS / MOTOR SIZING

#### 1SV 1750 RPM

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

#### 3SV 1750 RPM

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

### TECHNICAL DATA - PUMP HYDRAULICS / MOTOR SIZING

#### 5SV 1750 RPM

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

#### 10SV 1750 RPM

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

### TECHNICAL DATA - PUMP HYDRAULICS / MOTOR SIZING

#### 15SV 1750 RPM

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

#### 22SV 1750 RPM

| No. of Impellers | Maximum HP draw | Motor Selection using SF |                  |       | Motor Selection 1.0 SF |                  |       | Shutoff TDH (Feet) | Shutoff TDH (psi) | Shutoff TDH (Bar) | Casing/Sleeve Pressure Rating (standard assy.) | Pump Flange Rating |
|------------------|-----------------|--------------------------|------------------|-------|------------------------|------------------|-------|--------------------|-------------------|-------------------|------------------------------------------------|--------------------|
|                  |                 | Rated HP                 | NEMA Motor Frame |       | Rated HP               | NEMA Motor Frame |       |                    |                   |                   |                                                |                    |
|                  |                 |                          | ODP              | TEFC  |                        | ODP              | TEFC  |                    |                   |                   |                                                |                    |
| 12               | 3.58            | 5.00                     | 184TC            | 184TC | 5.00                   | 184TC            | 184TC | 220                | 95                | 6.6               | 25 Bar (362 psi)                               | Class 250 / 300    |
| 11               | 3.28            | 3.00                     | 56C              | 56C   |                        | 184TC            | 184TC | 202                | 87                | 6.0               |                                                |                    |
| 10               | 2.98            |                          | 56C              | 56C   |                        | 56C              | 56C   | 183                | 79                | 5.5               |                                                |                    |
| 9                | 2.68            |                          | 56C              | 56C   | 56C                    | 56C              | 165   | 71                 | 4.9               |                   |                                                |                    |
| 8                | 2.38            |                          | 56C              | 56C   | 56C                    | 56C              | 147   | 64                 | 4.4               |                   |                                                |                    |
| 7                | 2.09            |                          | 2.00             | 56C   | 56C                    | 56C              | 56C   | 129                | 56                | 3.8               |                                                |                    |
| 6                | 1.79            | 56C                      |                  | 56C   | 2.00                   | 56C              | 56C   | 110                | 48                | 3.3               |                                                |                    |
| 5                | 1.49            | 1.50                     |                  | 56C   | 56C                    | 56C              | 56C   | 91                 | 39                | 2.7               |                                                |                    |
| 4                | 1.19            |                          | 56C              | 56C   | 1.50                   | 56C              | 56C   | 74                 | 32                | 2.2               |                                                |                    |
| 3                | 0.89            |                          | 0.75             | 56C   | 56C                    | 1.00             | 56C   | 56C                | 55                | 24                |                                                |                    |
| 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             | 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             | 111                      |                  |      | 48                     |                  | 3    |                    |                   |                   |                                                |                    |                                          |
| 4/1              | 2.6             | 103                      |                  |      | 45                     |                  | 3    |                    |                   |                   |                                                |                    |                                          |
| 4/2              | 2.5             | 97                       |                  |      | 42                     |                  | 3    |                    |                   |                   |                                                |                    |                                          |
| 3                | 2.1             | 83                       |                  |      | 36                     |                  | 2    |                    |                   |                   |                                                |                    |                                          |
| 3/1              | 2.0             | 76                       |                  |      | 33                     |                  | 2    |                    |                   |                   |                                                |                    |                                          |
| 3/2              | 1.8             | 70                       |                  |      | 30                     |                  | 2    |                    |                   |                   |                                                |                    |                                          |
| 2                | 1.4             | 56                       |                  |      | 24                     |                  | 2    |                    |                   |                   |                                                |                    |                                          |
| 2/1              | 1.2             | 48                       |                  |      | 21                     |                  | 1    |                    |                   |                   |                                                |                    |                                          |
| 2/2              | 1.1             | 41                       |                  |      | 18                     |                  | 1    |                    |                   |                   |                                                |                    |                                          |
| 1                | 0.7             |                          |                  |      | 28                     |                  | 12   | 1                  |                   |                   |                                                |                    |                                          |

### TECHNICAL DATA - PUMP HYDRAULICS / MOTOR SIZING

#### 46SV 1750 RPM

| No. of Impellers | Maximum HP draw | Motor Selection using SF |                  |       | Motor Selection 1.0 SF |                  |       | Shutoff TDH (Feet) | Shutoff TDH (psi) | Shutoff TDH (Bar) | Casing/Sleeve Pressure Rating (standard assy.) | Pump Flange Rating | Stages Requiring Thrust Balancing Piston |    |   |
|------------------|-----------------|--------------------------|------------------|-------|------------------------|------------------|-------|--------------------|-------------------|-------------------|------------------------------------------------|--------------------|------------------------------------------|----|---|
|                  |                 | Rated HP                 | NEMA Motor Frame |       | Rated HP               | NEMA Motor Frame |       |                    |                   |                   |                                                |                    |                                          |    |   |
|                  |                 |                          | ODP              | TEFC  |                        | ODP              | TEFC  |                    |                   |                   |                                                |                    |                                          |    |   |
| 10/2             | 10.0            | 10                       | 215TC            | 215TC | 10                     | 213TC            | 215TC | 298                | 129               | 9                 | 25 Bar (362 psi)                               | Class 125 / 150    |                                          |    |   |
| 9                | 9.3             |                          |                  |       |                        |                  |       | 280                | 121               | 8                 |                                                |                    |                                          |    |   |
| 9/1              | 9.0             |                          |                  |       |                        |                  |       | 274                | 119               | 8                 |                                                |                    |                                          |    |   |
| 9/2              | 8.8             |                          |                  |       |                        |                  |       | 268                | 116               | 8                 |                                                |                    |                                          |    |   |
| 8                | 8.2             | 7.5                      | 184TC            |       | 7.5                    | 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             | 5                        |                  |       | 5                      |                  |       | 5                  | 5                 | 174               |                                                |                    |                                          | 75 | 5 |
| 5                | 5.2             |                          |                  |       |                        |                  |       |                    |                   | 156               |                                                |                    |                                          | 68 | 5 |
| 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             | 3                        |                  |       | 3                      |                  |       | 3                  | 3                 | 113               |                                                |                    |                                          | 49 | 3 |
| 3                | 3.1             |                          |                  |       |                        |                  |       |                    |                   | 93                |                                                |                    |                                          | 40 | 3 |
| 3/1              | 2.9             |                          |                  |       |                        |                  |       |                    |                   | 87                |                                                |                    |                                          | 38 | 3 |
| 3/2              | 2.6             |                          |                  |       |                        |                  |       |                    |                   | 79                |                                                |                    |                                          | 34 | 2 |
| 2                | 2.0             |                          |                  |       |                        |                  |       |                    |                   | 63                |                                                |                    |                                          | 27 | 2 |
| 2/1              | 1.8             |                          |                  |       |                        |                  |       |                    |                   | 55                |                                                |                    |                                          | 24 | 2 |
| 2/2              | 1.6             |                          |                  |       |                        |                  |       |                    |                   | 49                |                                                |                    |                                          | 21 | 1 |
| 1                | 1.0             |                          |                  |       |                        |                  |       |                    |                   | 31                |                                                |                    |                                          | 13 | 1 |

#### 66SV 1750 RPM

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

### TECHNICAL DATA - PUMP HYDRAULICS / MOTOR SIZING

#### 92SV 1750 RPM

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

#### 125SV 1750 RPM

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

### TECHNICAL DATA - WATER PROPERTY CHART

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

### TECHNICAL DATA - NPSH

#### NPSH

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

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

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

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

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

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

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

where:

- h<sub>p</sub>** is the absolute pressure applied to the free liquid surface in the suction tank, expressed in feet of liquid; h<sub>p</sub> is the quotient between the barometric pressure and the specific weight of the liquid.
- h<sub>z</sub>** is the suction lift between the pump axis and the free liquid surface in the suction tank, expressed in feet; h<sub>z</sub> is negative when the liquid level is lower than the pump axis.
- h<sub>f</sub>** is the flow resistance in the suction line and its accessories, such as: fittings, foot valve, gate valve, elbows, etc.

**h<sub>pv</sub>** is the vapor pressure of the liquid at the operating temperature, expressed in feet of the liquid. h<sub>pv</sub> is the quotient between the Pv vapor pressure and the liquid's specific weight.

**0.5** is the safety factor.

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

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

| Water Temperature (°F) | 68 | 104 | 140 | 176  | 194  | 230  | 248  |
|------------------------|----|-----|-----|------|------|------|------|
| Suction Loss (ft)      | -7 | 2.3 | 6.6 | 16.4 | 24.3 | 50.5 | 70.5 |

| Elevation Above Sea Level (ft) | 1600 | 3300 | 4900 | 6500 | 8200 | 9800 |
|--------------------------------|------|------|------|------|------|------|
| Suction Loss (ft)              | 1.8  | 3.6  | 5.4  | 7.2  | 9.0  | 10.8 |

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

# TECHNICAL DATA - COMPATABILITY CHART FOR MATERIALS IN CONTACT WITH MOST COMMONLY USED LIQUIDS

| Liquid                                      | Concentration (%) | Temperature Min/Max °F | Specific Weight (lb/in³) | SV 1, 3, 5, 10, 15, 22 |     | SV 33, 46, 66, 92 |     | Recommended Seal                  | Elastomers |
|---------------------------------------------|-------------------|------------------------|--------------------------|------------------------|-----|-------------------|-----|-----------------------------------|------------|
|                                             |                   |                        |                          | 304                    | 316 | CI/316            | 316 |                                   |            |
| Water                                       | 100               | 23/248                 |                          | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Deionized, demineralized or distilled water | 100               | -13/230                |                          | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Water and oil emulsion                      | any               | 23/194                 |                          | •                      | •   | •                 | •   | Q <sub>1</sub> BVGG               | V          |
| Acetic acid (•)                             | 80                | 14/158                 | .038                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Citric acid                                 | 5                 | 14/158                 | .056                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Hydrochloric acid                           | 2                 | 23/77                  | .043                     |                        | •   |                   | •   | Q <sub>1</sub> Q <sub>1</sub> VGG | V          |
| Phosphoric acid                             | 10                | 23/86                  | .048                     |                        | •   |                   | •   | Q <sub>1</sub> BEGG               | E          |
| Nitric acid (•)                             | 50                | 23/86                  | .053                     | •                      | •   | •                 | •   | Q <sub>1</sub> Q <sub>1</sub> VGG | V          |
| Sulphuric acid (•)                          | 2                 | 14/77                  | .066                     |                        | •   |                   | •   | Q <sub>1</sub> BVGG               | V          |
| Tannic acid                                 | 20                | 32/122                 |                          |                        | •   |                   | •   | Q <sub>1</sub> BEGG               | E          |
| Tartaric acid                               | 50                | 14/77                  | .063                     | •                      | •   | •                 | •   | Q <sub>1</sub> Q <sub>1</sub> VGG | V          |
| Uric acid                                   | 80                | 14/176                 | .068                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Benzoic acid                                | 70                | 32/158                 | .047                     | •                      | •   | •                 | •   | Q <sub>1</sub> BVGG               | V          |
| Boric acid                                  | Saturated         | 14/194                 | .052                     | •                      | •   | •                 | •   | Q <sub>1</sub> Q <sub>1</sub> VGG | V          |
| Formic acid (•)                             | 5                 | 5/77                   | .044                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Ethyl alcohol (•)                           | 100               | 23/104                 | .029                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Methyl alcohol (•)                          | 100               | 23/104                 | .029                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Propyl alcohol (•)                          | 100               | 23/176                 | .029                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Butyl alcohol                               | 100               | 23/176                 | .030                     | •                      | •   | •                 | •   | Q <sub>1</sub> BVGG               | V          |
| Denatured alcohol (•)                       | 100               | 23/158                 | .030                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Ammonia in water (•)                        | 25                | -4/122                 | .038                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Chloroform                                  |                   | 14/86                  | .053                     | •                      | •   | •                 | •   | Q <sub>1</sub> BVGG               | V          |
| Caustic soda                                | 25                | 32/158                 | .077                     | •                      | •   | •                 | •   | Q <sub>1</sub> Q <sub>1</sub> EGG | E          |
| Water, detergents, mineral oils mixture     |                   | 23/176                 |                          | •                      | •   | •                 | •   | Q <sub>1</sub> Q <sub>1</sub> VGG | V          |
| Cleaning products                           |                   | 23/212                 |                          | •                      | •   | •                 | •   | Q <sub>1</sub> Q <sub>1</sub> VGG | V          |
| Glycerine                                   | 100               | 68/194                 | .046                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Sodium Hypochlorite                         | 1                 | 14/77                  |                          |                        | •   |                   | •   | Q <sub>1</sub> Q <sub>1</sub> VGG | V          |
| Phosphates/polyphosphates                   |                   | 23/194                 |                          |                        | •   |                   | •   | Q <sub>1</sub> Q <sub>1</sub> VGG | V          |
| Sodium nitrate                              | Saturated         | 14/176                 | .081                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Cutting fluid                               | 100               | 23/230                 | .033                     | •                      | •   | •                 | •   | Q <sub>1</sub> BVGG               | V          |
| Peanut oil (•)                              | 100               | 23/230                 | .034                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Colza oil (•)                               | 100               | 23/230                 | .034                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Linseed oil (•)                             | 100               | 23/230                 | .034                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Coconut oil (•)                             | 100               | -4/194                 | .033                     | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Soybean oil (•)                             | 100               | 32/194                 |                          | •                      | •   | •                 | •   | Q <sub>1</sub> BEGG               | E          |
| Diathermic oil                              | 100               | 23/230                 | .033                     | •                      | •   | •                 | •   | Q <sub>1</sub> BVGG               | V          |
| Hydraulic oil                               | 100               | 23/230                 |                          | •                      | •   | •                 | •   | Q <sub>1</sub> BVGG               | V          |
| Mineral oil                                 | 100               | 23/230                 | .034                     | •                      | •   | •                 | •   | Q <sub>1</sub> BVGG               | V          |
| Sodium sulfate                              | 15                | 14/104                 | .094                     | •                      | •   | •                 | •   | Q <sub>1</sub> Q <sub>1</sub> EGG | E          |
| Aluminum sulfate                            | 30                | 23/122                 | .097                     |                        | •   |                   | •   | Q <sub>1</sub> Q <sub>1</sub> EGG | E          |
| Ammonium sulfate                            | 10                | 14/140                 | .064                     |                        | •   |                   | •   | Q <sub>1</sub> Q <sub>1</sub> EGG | E          |
| Iron sulfate                                | 10                | 23/86                  | .076                     |                        | •   |                   | •   | Q <sub>1</sub> BEGG               | E          |
| Copper sulfate                              | 20                | 32/86                  | .082                     |                        | •   |                   | •   | Q <sub>1</sub> Q <sub>1</sub> VGG | V          |
| Trichloroethylene                           |                   | 14/104                 | .053                     | •                      | •   | •                 | •   | Q <sub>1</sub> BVGG               | V          |
| Perchloroethylene                           |                   | 14/86                  | .057                     | •                      | •   | •                 | •   | Q <sub>1</sub> BVGG               | V          |

## Legend

Q<sub>1</sub> = Silicon carbide B = Impregnated carbon E = EPDM V = Viton G = AISI 316 (spring, metal components)

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



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