

# WDM<sup>®</sup>

## PUMPS

### VSE

Pump Body  
Cast Iron  
Split  
Coupled



### VSSE

Pump Body  
Stainless Steel  
Split  
Coupled



- Flow rates up to 570 GPM
- Size up to 4" discharge
- Motors up to 60 HP

- Stainless steel impeller
- Temperatures up to 248° F (120° C)
- Bearing design

- Efficient motors
- Lead free design
- Inline pump set-up

## Technical Book

### Vertical Multistage Line

WDM PUMPS



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## WDM Water Systems

WDM Pumps has expanded its brand as an international manufacturer of fluid handling pumps by consistently meeting and exceeding the needs of our customers.

Continuing a tradition of more than 60 years, WDM Pumps manufactures quality electric and engine driven pumps for diverse commercial and industrial applications. Our continued growth is based on a commitment to high standards for efficient product design, production, sales, and customer support.

Our customers rely on our world-class team of experienced WDM Pumps engineers, technicians, and product application specialists.

WDM offers pump products and related equipment for a wide variety of industries. WDM Pumps manufactured and distributed self priming, flexible coupled, close coupled, horizontal split case, vertical inline, UL/FM listed fire pumps, vertical multistage, ANSI, submersible sump and sewage and vertical turbine.

WDM Pumps plants are strategically located throughout the Americas with USA offices located in Tulsa Oklahoma.





North  
Pacific  
Ocean

North  
Atlantic  
Ocean

#### Other factories:

- Mexico
- Guatemala
- Panama
- Colombia
- Ecuador
- Peru
- Brasil
- Chile
- Argentina

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## VSE Line Close Coupled

### Features:

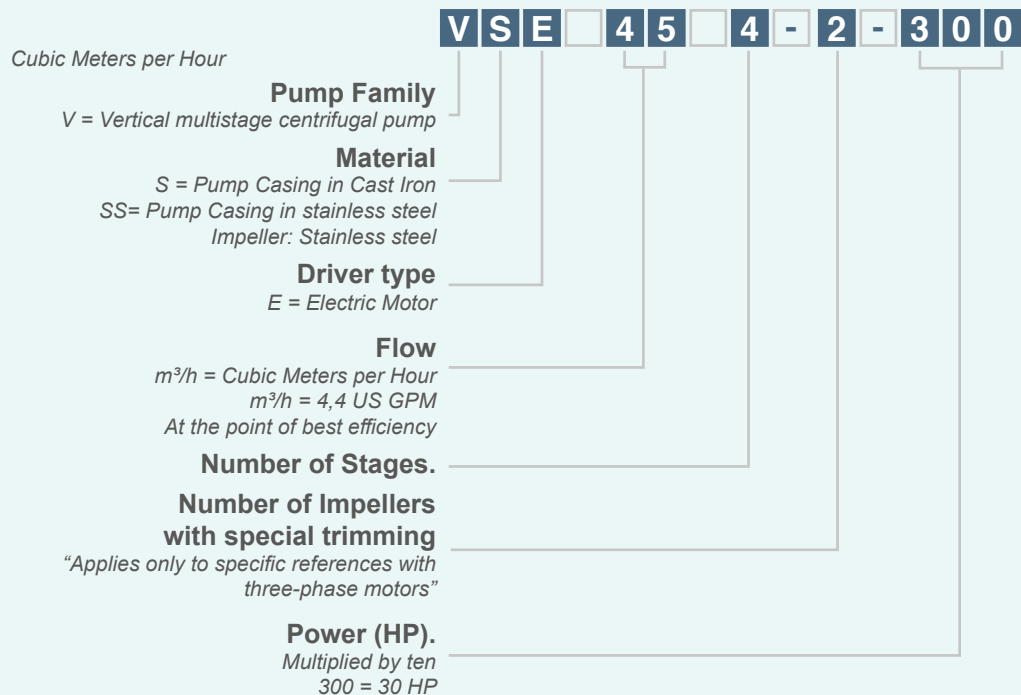
- Material: Cast Iron / Stainless Steel
- Suction: Up to 4"
- Discharge: Up to 4"
- Impeller: Enclosed, Stainless Steel, Dynamically Balanced.
- Mechanical Seal: Standar Silicon / Carbon / Viton.
- Wear Rings: Lead Free Bronze
- Motor: Three-phases up to 60 Hp
- ANSI Flange Connections.

### Benefits:

- Quick delivery
- Easy set up & installation
- Low and easy maintenance
- Long service life
- Wide range of sizes



### Nomenclature:



## 1. Duty Point of the Pump

From a duty point it is possible to select a pump on the basis of the curve charts shown in “performance curves/technical” data.

- NPSH value.
- For calculation of the NPSH value, see corresponding curves chart.

## 3. Pump Efficiency

Before determining the best efficiency point, the operation pattern of the pump needs to be identified. If the pump expected to operate as the same duty point, then select a VSE pump which is operating a duty point corresponding with the best efficiency of the pump.

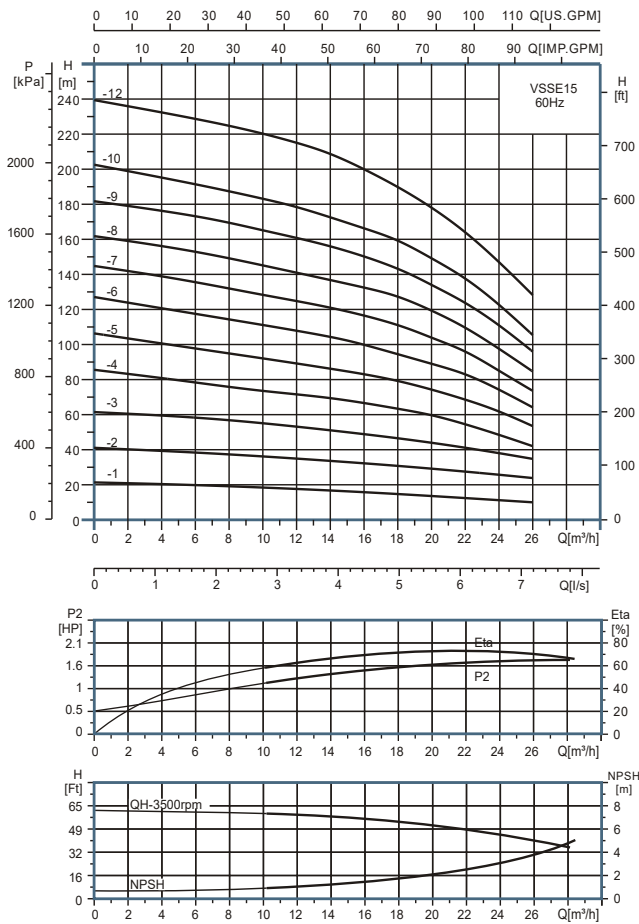


Fig. 1 Example of Curve Chart

## 2. Dimensional Data

When sizing a pump the following must be taken into accounting:

- Required flow and pressure at the duty point.
- Pressure loss as a result of height differences (H).
- It may be necessary to account for pressure.
- Loss in connection with long pipes, bends or valves, etc.
- Best efficiency at the estimated duty point.

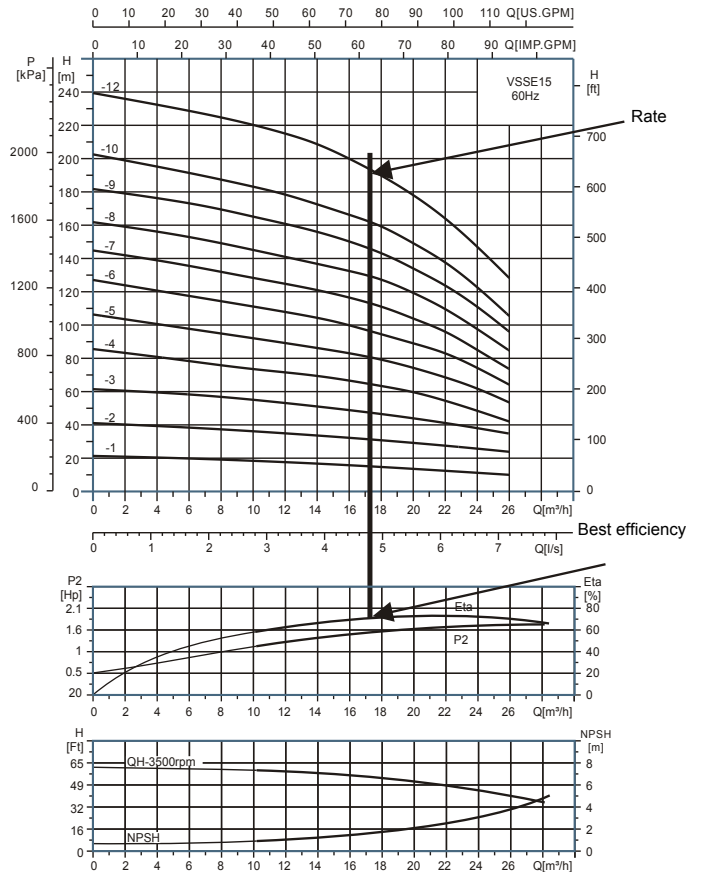


Fig. 6 Example of Duty Point

As the pump is sized on the basis of the highest possible flow, it is important always to have the duty point to the right on the efficiency curve(eta) in order to keep efficiency high when the flow drops.

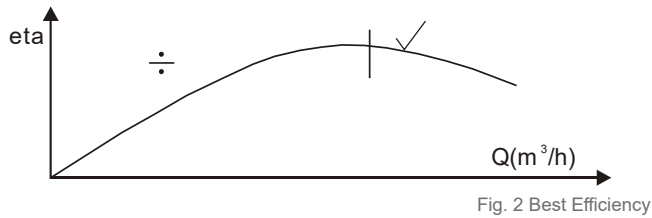


Fig. 2 Best Efficiency

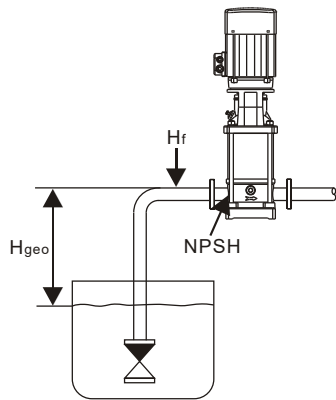


Fig. 3 Dimensional Data

#### 4. Pump Material

The material variant (VSE, VSSE) should be selected based upon the liquid to be pump. VSSE wetted parts are made of AISI304. VSE pump body is made of cast-iron and Wetted parts are made of AISI304.

#### 5. Pump Connections

Selection of pump connection depend on the rated pressure and pipework. To meet any requirement the VSE, VSSE pump offer a wide range of flexible connection such as:

- ANSI flange.
- DIN flange. (Available on Request)
- PJE coupling. (Available on Request)
- Union connection. (Available on Request)
- Other connections on request. (Available on Request)

#### 6. Shaft Seal

As standard, the VSE AND VSSE range is fitted with a cartridge type suitable for the most common applications. the following key parameters must be taken in to account, when selecting the shaft seal:

- Type of pumped liquid.
- Liquid temperature.
- Maximum pressure.

#### Inlet pressure and operating pressure

The limit values stated on page 9 and page 10 must not be exceeded as regards

- Maximum inlet pressure and Maximum operating pressure.

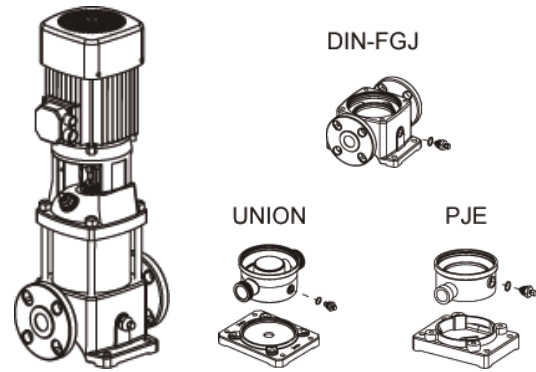


Fig. 4 VSE Pump

Fig. 5 Pump Connections

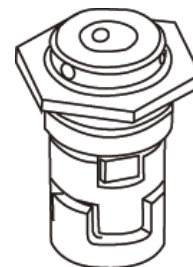


Fig. 6 Pump Connections

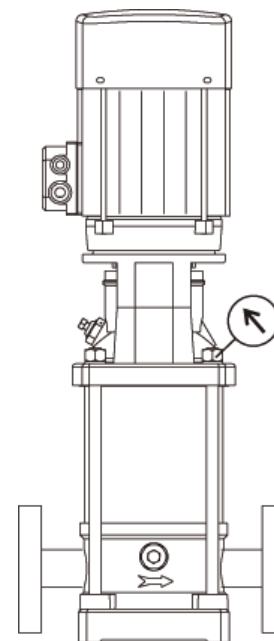
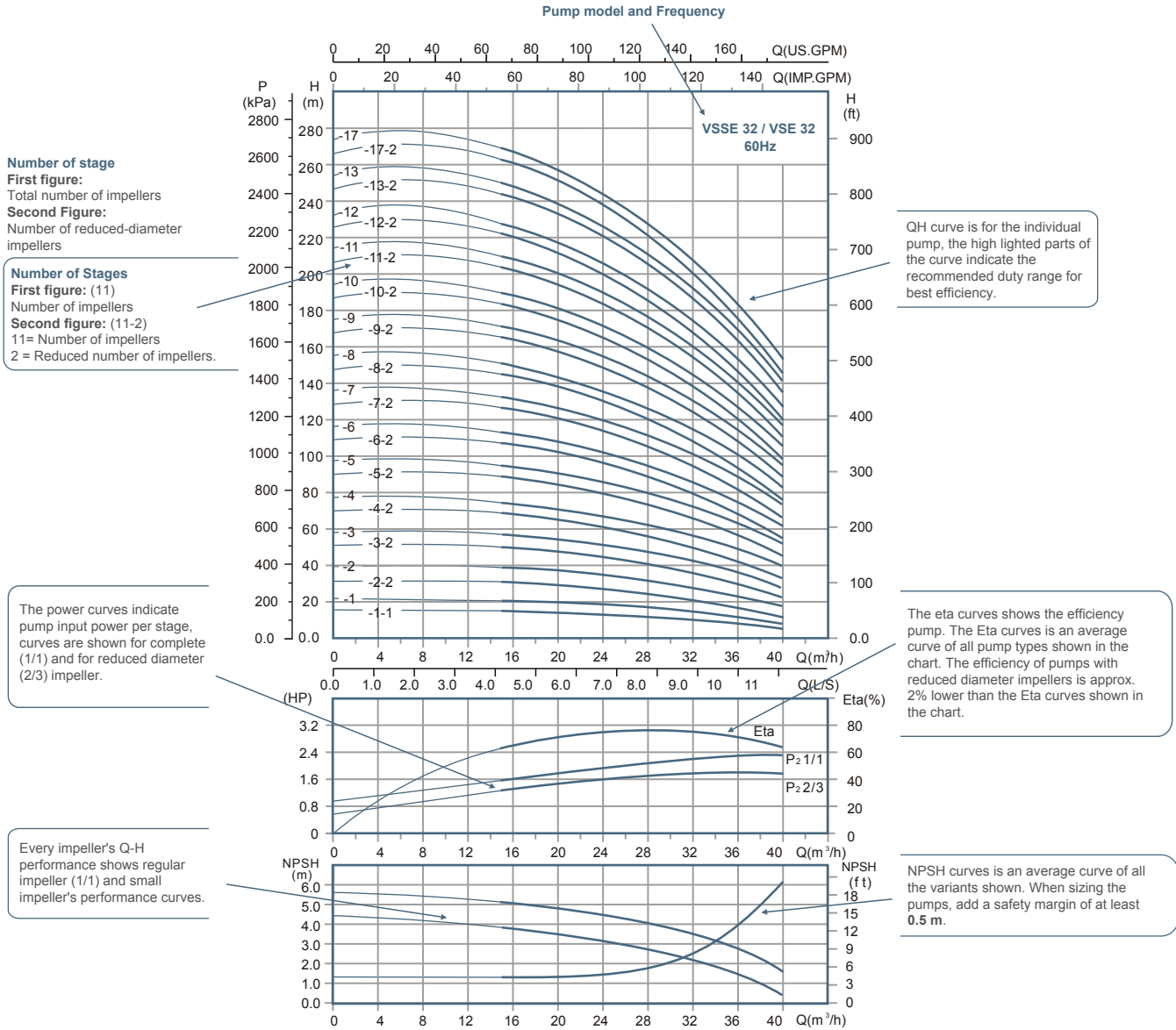


Fig. 7 Inlet pressure and operating pressure



### How to read the curve chart

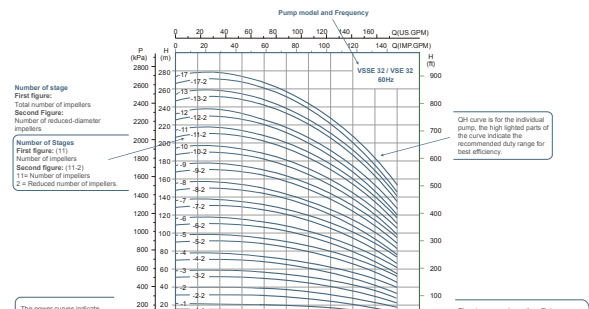


### Explanation of Performance Curves

Guidelines to performance curves that apply to the curves shown on the following pages:

1. Measurements have been made with airless water at a temperature of 68° F (20 °C).
2. The curves apply to kinematic viscosity of  $V = 1\text{mm}^2/\text{s}$  (1 cst).
3. Due to the risk of overheating, the pumps should not be used at a flow below the minimum flow rate.
4. The QH curves apply to a rated motor speed of 3500 min<sup>-1</sup>, all curves are based on current motor speeds.



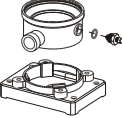
The curve below shows the minimum flow rate as a percentage of the nominal flow rate in relation to the liquid temperature.



Note: The water valve must be open during operation.



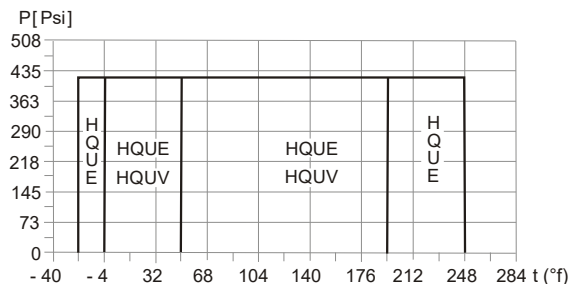
### Maximum Operating Pressure and Temperature Range

|                                     | DIN-FGJ<br> | UNION<br> | PJE<br> |
|-------------------------------------|--|---|--|
|                                     | Max. Permissible Operating Pressure  |   | Liquid Temperature Range   |
| VSE, VSSE1                          | 362 PSI  |   | -4° F + 248° F (-20° C + 120° C)   |
| VSE, VSSE2                          | 362 PSI  |   | -4° F + 248° F (-20° C + 120° C)   |
| VSE, VSSE3                          | 362 PSI  |   | -4° F + 248° F (-20° C + 120° C)   |
| VSE, VSSE4                          | 362 PSI  |   | -4° F + 248° F (-20° C + 120° C)   |
| VSE, VSSE5                          | 362 PSI  |   | -4° F + 248° F (-20° C + 120° C)   |
| VSE, VSSE10-1 ► VSE, VSSE10-16      | 232 PSI  |   | -4° F + 248° F (-20° C + 120° C)   |
| VSE, VSSE10-18 ► VSE, VSSE10-22     | 319 PSI  |   | -4° F + 248° F (-20° C + 120° C)   |
| VSE, VSSE15-1 ► VSE, VSSE15-10      | 232 PSI  |   | -4° F + 248° F (-20° C + 120° C)   |
| VSE, VSSE15-12 ► VSE, VSSE 15-17    | 362 PSI  |   | -4° F + 248° F (-20° C + 120° C)   |
| VSE, VSSE20-1 ► VSE, VSSE20-10      | 232 PSI  |   | -4° F + 248° F (-20° C + 120° C)   |
| VSE, VSSE20-11 ► VSE, VSSE20-17     | 232 PSI  |   | -4° F + 248° F (-20° C + 120° C)   |
| VSE, VSSE32-1-1 ► VSE, VSSE32-7     | 232 PSI  |   | -22° F + 248° F (-30° C + 120° C)  |
| VSE, VSSE32-8-2 ► VSE, VSSE32-12    | 362 PSI  |   | -22° F + 248° F (-30° C + 120° C)  |
| VSE, VSSE32-13-2 ► VSE, VSSE32-14   | 435 PSI  |   | -22° F + 248° F (-30° C + 120° C)  |
| VSE, VSSE45-1-1 ► VSE, VSSE45-5     | 232 PSI  |   | -22° F + 248° F (-30° C + 120° C)  |
| VSE, VSSE45-6-2 ► VSE, VSSE45-9     | 362 PSI  |   | -22° F + 248° F (-30° C + 120° C)  |
| VSE, VSSE45-10-2 ► VSE, VSSE45-13-2 | 478 PSI  |   | -22° F + 248° F (-30° C + 120° C)  |
| VSE, VSSE64-1-1 ► VSE, VSSE64-5     | 232 PSI  |   | -22° F + 248° F (-30° C + 120° C)  |
| VSE, VSSE64-6-2 ► VSE, VSSE-64-8-1  | 362 PSI  |   | -22° F + 248° F (-30° C + 120° C)  |
| VSE, VSSE90-1-1 ► VSE, VSSE90-4     | 232 PSI  |   | -22° F + 248° F (-30° C + 120° C)  |
| VSE, VSSE90-5-2 ► VSE, VSSE90-6     | 362 PSI  |   | -22° F + 248° F (-30° C + 120° C)  |

### Operating range of the shaft seal

The operating range of the shaft seal depends on operating pressure, pump type, type of shaft seal, and liquid temperature. **The following curves apply to clean water and water containing glycol.**

Fig. 8 Operating range of standard shaft seals



# Operating and Inlet Pressures

## VSE Line



### Maximum Inlet Pressure

The following table shows the maximum permissible inlet pressure. However, the current inlet pressure the pressure against a closed valve must always be lower than the maximum permissible operating pressure. If the maximum permissible operating pressure is exceeded, the bearing in the motor may be damaged and the life of the shaft seal reduced.

#### Example of operating and inlet pressures:

The values for operating and inlet pressures shown in the table must not be considered individually but must always be compared, see the following examples.

#### Example 1:

**Pump Model:** VSSE-5-20-A-FGJ-E-HQUE.

**Max. Operating Pressure:** 362 PSI.

**Max. Inlet Pressure:** 217 PSI.

**Discharge pressure against a closed valve:** 198 PSI, see page 35.

The pump is not allowed to start at an inlet pressure of 217 PSI, but at an inlet pressure of  $362 - 198 = 164$  PSI

#### Example 2:

**Pump Model:** VSSE15-3-A-P-E-HQUE

**Max. Operating Pressure:** 232 PSI

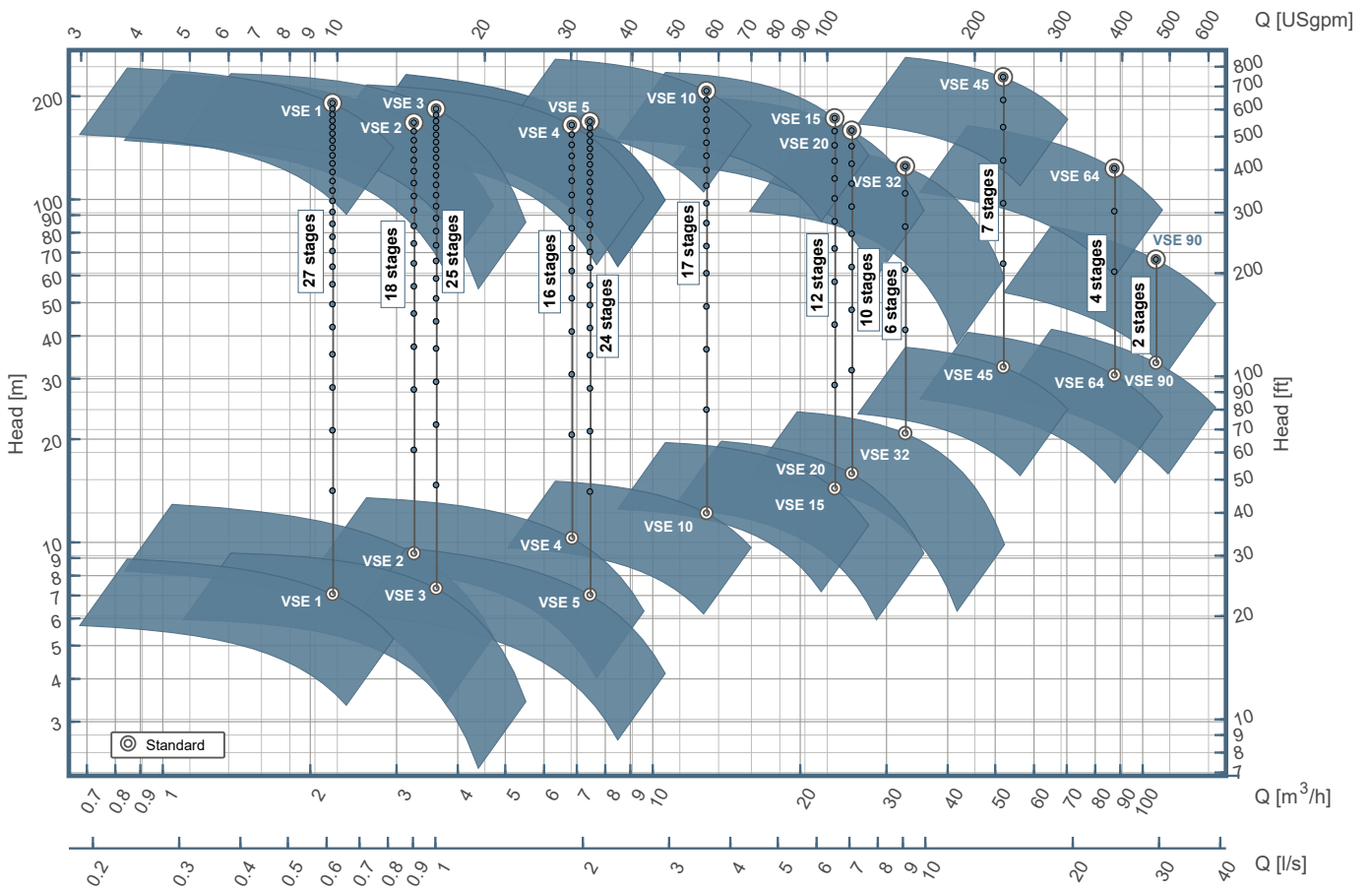
**Max. Inlet Pressure:** 116 PSI

**Discharge pressure against a closed valve:** 61 PSI see page 39 curves chart.

This pump is allowed to start at an inlet pressure of 87 PSI, as the discharge pressure against a closed valve is only 61 PSI, which results in an operating pressure of  $87 + 61 = 148$  PSI. On the contrary, the max. Operating pressure of this pump limited to 177 PSI, as a higher operating pressure bigger than 8bar will require on the Inlet.

| VSE, VSSE 1     |                  |         |
|-----------------|------------------|---------|
| VSE, VSSE 1-2   | VSE, VSSE1-36    | 145 PSI |
| VSE, VSSE 1-27  |                  | 217 PSI |
| VSE, VSSE 2     |                  |         |
| VSE, VSSE2-2    | VSE, VSSE2-26    | 145 PSI |
| VSE, VSSE 3     |                  |         |
| VSE, VSSE3-2    | VSE, VSSE3-15    | 145 PSI |
| VSE, VSSE3-17   | VSE, VSSE3-25    | 217 PSI |
| VSE, VSSE 4     |                  |         |
| VSE, VSSE4-2    | VSE, VSSE4-22    | 217 PSI |
| VSE, VSSE 5     |                  |         |
| VSE, VSSE5-10   | VSE, VSSE5-9     | 145 PSI |
| VSE, VSSE5-18   | VSE, VSSE5-24    | 217 PSI |
| VSE, VSSE 10    |                  |         |
| VSE, VSSE10-1   | VSE, VSSE10-5    | 116 PSI |
| VSE, VSSE10-6   | VSE, VSSE10-17   | 145 PSI |
| VSE, VSSE 15    |                  |         |
| VSE, VSSE15-1   | VSE, VSSE15-2    | 116 PSI |
| VSE, VSSE15-3   | VSE, VSSE15-12   | 145 PSI |
| VSE, VSSE 20    |                  |         |
| VSE, VSSE20-1   |                  | 116 PSI |
| VSE, VSSE20-2   | VSE, VSSE20-10   | 145 PSI |
| VSE, VSSE 32    |                  |         |
| VSE, VSSE32-1-1 | VSE, VSSE32-2    | 58 PSI  |
| VSE, VSSE32-3-2 | VSE, VSSE32-6    | 145 PSI |
| VSE, VSSE32-7-2 | VSE, VSSE32-10-2 | 217 PSI |
| VSE, VSSE 45    |                  |         |
| VSE, VSSE45-1-1 | VSE, VSSE45-1    | 58 PSI  |
| VSE, VSSE45-2-2 | VSE, VSSE45-3    | 145 PSI |
| VSE, VSSE45-4-2 | VSE, VSSE45-7    | 217 PSI |
| VSE, VSSE 64    |                  |         |
| VSE, VSSE64-1-1 |                  | 58 PSI  |
| VSE, VSSE64 1   | VSE, VSSE64-2-1  | 145 PSI |
| VSE, VSSE64 2   | VSE, VSSE64-5-2  | 217 PSI |
| VSE, VSSE 90    |                  |         |
| VSE, VSSE90-1-1 | VSE, VSSE90-2-2  | 145 PSI |
| VSE, VSSE90-2-1 | VSE, VSSE90-4-2  | 217 PSI |

2 poles (3600 rpm)

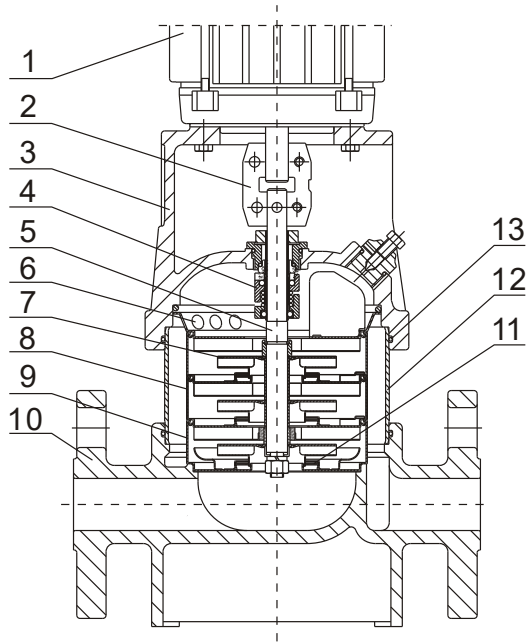


**Sectional  
VSE Line  
1-2-3-4-5**

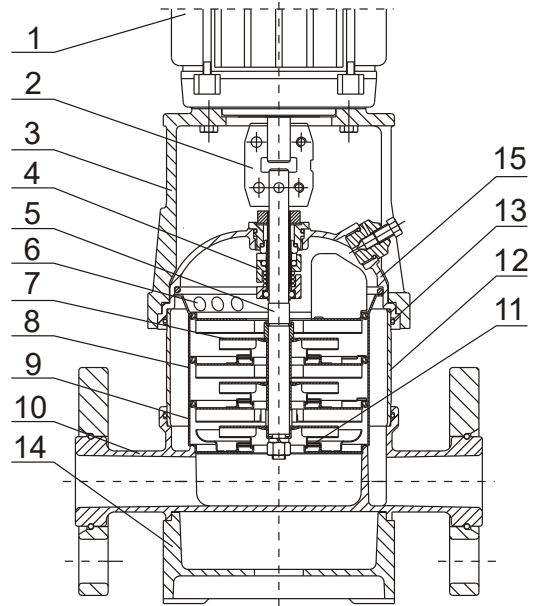


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**VSE PUMP**



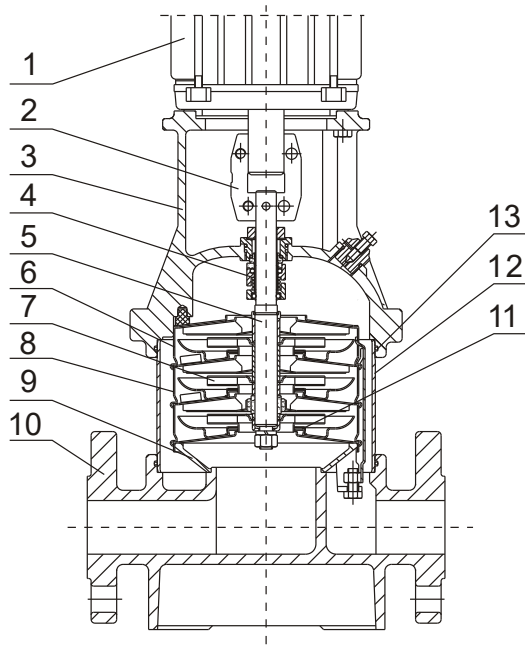
**VSSE PUMP**



| ITEM | DESCRIPTION     | MATERIAL                          | EN/DIN    | AISI/ASTM |
|------|-----------------|-----------------------------------|-----------|-----------|
| 1    | Motor           |                                   |           |           |
| 2    | Shaft Connector |                                   |           |           |
| 3    | Pump Head       | Cast Iron                         | EN-JL1030 | ASTM25B   |
| 4    | Mechanical Seal | Standard Silicon / Carbon / Viton |           |           |
| 5    | Shaft           | S.S                               |           | AISI420   |
| 6    | Outlet          | S.S                               | 1,4301    | AISI304   |
| 7    | Impeller        | S.S                               | 1,4301    | AISI304   |
| 8    | Diffuser        | S.S                               | 1,4301    | AISI304   |
| 9    | Inlet           | S.S                               | 1,4301    | AISI304   |
| 10   | Pump Body       | Cast Iron                         | EN-JL1030 | ASTM25B   |
| 11   | Spring Washer   | PTFE                              |           |           |
| 12   | Outer Sleeve    | S.S                               | 1,4301    | AISI304   |
| 13   | O-Ring          | EPDM/FKM                          |           |           |

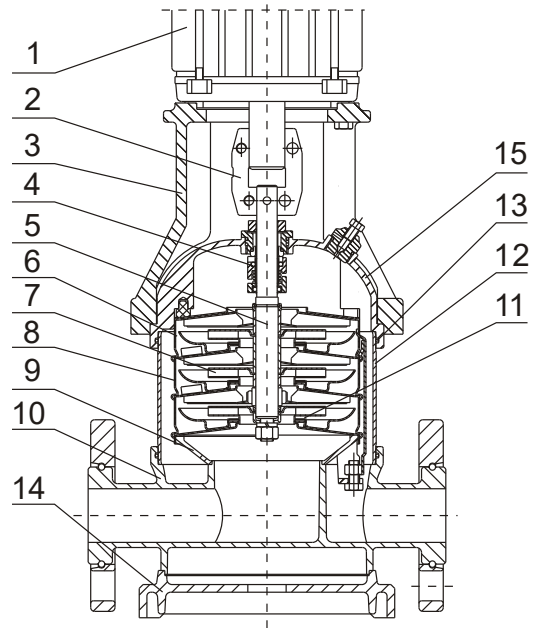
| ITEM | DESCRIPTION     | MATERIAL                          | EN/DIN    | AISI/ASTM |
|------|-----------------|-----------------------------------|-----------|-----------|
| 1    | Motor           |                                   |           |           |
| 2    | Shaft Connector |                                   |           |           |
| 3    | Pump Head       | Cast Iron                         | EN-JL1030 | ASTM25B   |
| 4    | Mechanical Seal | Standard Silicon / Carbon / Viton |           |           |
| 5    | Shaft           | S.S                               | 1,4057    | AISI431   |
| 6    | Outlet          | S.S                               | 1,4301    | AISI304   |
| 7    | Impeller        | S.S                               | 1,4301    | AISI304   |
| 8    | Diffuser        | S.S                               | 1,4301    | AISI304   |
| 9    | Inlet           | S.S                               | 1,4301    | AISI304   |
| 10   | Pump Body       | S.S                               | 1,4301    | AISI304   |
| 11   | Spring Washer   | PTFE                              |           |           |
| 12   | Outer Sleeve    | S.S                               | 1,4301    | AISI304   |
| 13   | O-Ring          | EDM/FKM                           |           |           |
| 14   | Bottom Base     | Cast Iron                         | EN-JL1030 | ASTM25B   |
| 15   | Pump Cover      | S.S                               | 1,4301    | AISI304   |

**VSE PUMP**



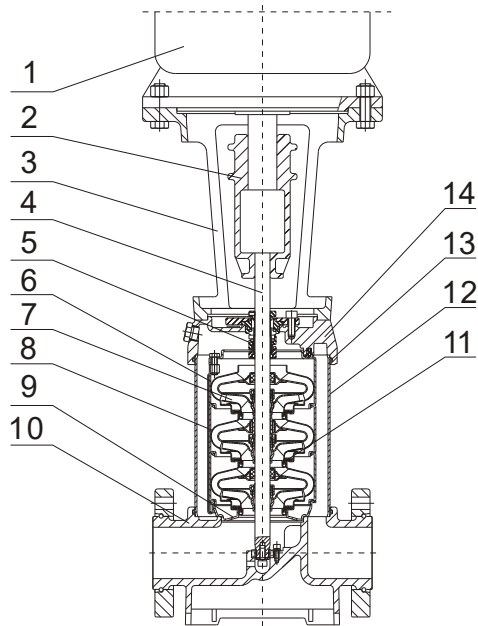
| ITEM | DESCRIPTION     | MATERIAL                          | EN/DIN     | AISI/ASTM |
|------|-----------------|-----------------------------------|------------|-----------|
| 1    | Motor           |                                   |            |           |
| 2    | Shaft Connector |                                   |            |           |
| 3    | Pump Head       | Cast Iron                         | EN-JL 1030 | ASTM25B   |
| 4    | Mechanical Seal | Standard Silicon / Carbon / Viton |            |           |
| 5    | Shaft           | S.S                               |            | AISI420   |
| 6    | Outlet          | S.S                               | 1,4301     | AISI304   |
| 7    | Impeller        | S.S                               | 1,4301     | AISI304   |
| 8    | Diffuser        | S.S                               | 1,4301     | AISI304   |
| 9    | Settled Cover   | S.S                               | 1,4301     | AISI304   |
| 10   | Pump Body       | Cast Iron                         | EN-JL 1030 | ASTM25B   |
| 11   | Spring Washer   | PTFE                              |            |           |
| 12   | Outer Sleeve    | S.S                               | 1,4301     | AISI304   |
| 13   | O-Ring          | EPDM/FKM                          |            |           |

**VSSE PUMP**

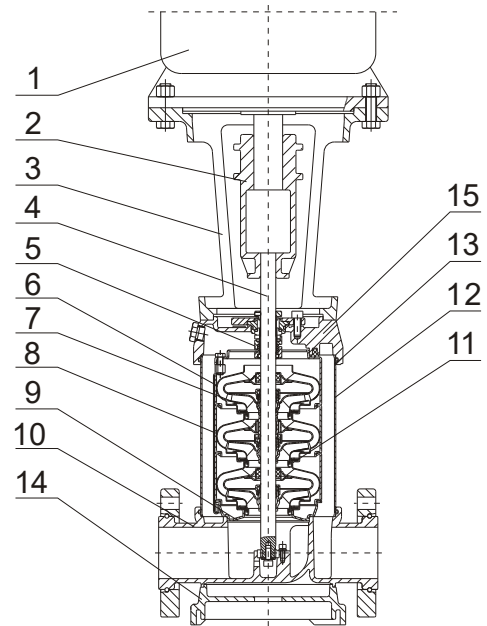


| ITEM | DESCRIPTION     | MATERIAL                          | EN/DIN     | AISI/ASTM |
|------|-----------------|-----------------------------------|------------|-----------|
| 1    | Motor           |                                   |            |           |
| 2    | Shaft Connector |                                   |            |           |
| 3    | Pump Head       | Cast Iron                         | EN-JL 1030 | ASTM25B   |
| 4    | Mechanical Seal | Standard Silicon / Carbon / Viton |            |           |
| 5    | Shaft           | S.S                               | 1,4057     | AISI431   |
| 6    | Outlet          | S.S                               | 1,4301     | AISI304   |
| 7    | Impeller        | S.S                               | 1,4301     | AISI304   |
| 8    | Diffuser        | S.S                               | 1,4301     | AISI304   |
| 9    | Settled Cover   | S.S                               | 1,4301     | AISI304   |
| 10   | Pump Body       | S.S                               | 1,4301     | AISI304   |
| 11   | Spring Washer   | PTFE                              |            |           |
| 12   | Outer Sleeve    | S.S                               | 1,4301     | AISI304   |
| 13   | O-Ring          | PDM/FKM                           |            |           |
| 14   | Bottom Base     | Cast Iron                         | EN-JL 1030 | ASTM25B   |
| 15   | Pump Cover      | S.S                               | 1,4301     | AISI304   |

**VSE PUMP**

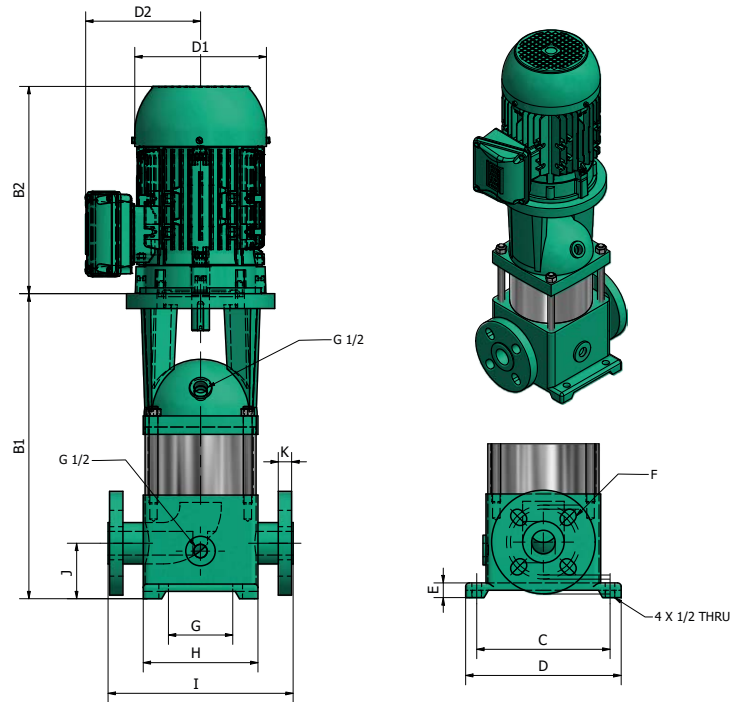


**VSSE PUMP**



| ITEM | DESCRIPTION     | MATERIAL                          | EN/DIN    | AISI/ASTM |
|------|-----------------|-----------------------------------|-----------|-----------|
| 1    | Motor           |                                   |           |           |
| 2    | Shaft Connector |                                   |           |           |
| 3    | Pump Head       | Cast Iron                         | EN-JL1030 | ASTM25B   |
| 4    | Shaft           | S.S                               |           | AISI420   |
| 5    | Mechanical Seal | Standard Silicon / Carbon / Viton |           |           |
| 6    | Outlet          | S.S                               | 1,4301    | AISI304   |
| 7    | Impeller        | S.S                               | 1,4301    | AISI304   |
| 8    | Diffuser        | S.S                               | 1,4301    | AISI304   |
| 9    | Inlet           | S.S                               | 1,4301    | AISI304   |
| 10   | Pump Body       | Cast Iron                         | EN-JL1030 | ASTM25B   |
| 11   | Spring Washer   | PTFE                              |           |           |
| 12   | Outer Sleeve    | S.S                               | 1,4301    | AISI304   |
| 13   | O-Ring          | EPDM/FKM                          |           |           |
| 14   | Pump Cover      | Cast Iron                         | EN-JL1030 | ASTM25B   |

| ITEM | DESCRIPTION     | MATERIAL                          | EN/DIN    | AISI/ASTM |
|------|-----------------|-----------------------------------|-----------|-----------|
| 1    | Motor           |                                   |           |           |
| 2    | Shaft Connector |                                   |           |           |
| 3    | Pump Head       | Cast Iron                         | EN-JL1030 | ASTM25B   |
| 4    | Shaft           | S.S                               | 1,4057    | AISI431   |
| 5    | Mechanical Seal | Standard Silicon / Carbon / Viton |           |           |
| 6    | Outlet          | S.S                               | 1,4301    | AISI304   |
| 7    | Impeller        | S.S                               | 1,4301    | AISI304   |
| 8    | Diffuser        | S.S                               | 1,4301    | AISI304   |
| 9    | Inlet           | S.S                               | 1,4301    | AISI304   |
| 10   | Pump Body       | S.S                               | 1,4301    | AISI304   |
| 11   | Spring Washer   | PTFE                              |           |           |
| 12   | Outer Sleeve    | S.S                               | 1,4301    | AISI304   |
| 13   | O-Ring          | EPDM/FKM                          |           |           |
| 14   | Bottom Base     | Cast Iron                         | EN-JL1030 | ASTM25B   |
| 15   | Cover           | S.S                               | 1,4301    | AISI304   |



| Model         | Ref.   | Size (in) |                 |        |       |       |   |       |     |     |   |   |       |   |     | Weight (lb) | Suc (in) | Disc (in) |
|---------------|--------|-----------|-----------------|--------|-------|-------|---|-------|-----|-----|---|---|-------|---|-----|-------------|----------|-----------|
|               |        | B1        | B2              | B1+B2  | D1    | D2    | C | D     | E   | F   | G | H | I     | J | K   |             |          |           |
| VSE 1-2-5-1   | 1G0612 | 10 5/16   | 8 1/8           | 18 3/8 | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 51          | 1 1/4    | 1"        |
| VSE 1-3-5-1   | 1G0722 | 11        | 8 1/8           | 19 1/8 | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 51          | 1 1/4    | 1"        |
| VSE 1-4-5-1   | 1G0613 | 11 3/4    | 8 1/8           | 19 3/4 | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 53          | 1 1/4    | 1"        |
| VSE 1-5-7-1   | 1G0614 | 12 1/2    | 8 1/8           | 20 1/2 | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 55          | 1 1/4    | 1"        |
| VSE 1-6-7-1   | 1G0615 | 13 1/8    | 8 1/8           | 21 1/4 | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 57          | 1 1/4    | 1"        |
| VSE 1-7-10-1  | 1G0616 | 13 7/8    | 8 1/8           | 21 7/8 | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 60          | 1 1/4    | 1"        |
| VSE 1-8-10-1  | 1G0617 | 14 5/8    | 8 1/8           | 22 5/8 | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 62          | 1 1/4    | 1"        |
| VSE 1-9-10    | 1G0136 | 15 1/4    | 8 1/8           | 23 3/8 | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 66          | 1 1/4    | 1"        |
| VSE 1-10-15-1 | 1G0618 | 16 1/4    | 9 1/2           | 25 3/4 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 70          | 1 1/4    | 1"        |
| VSE 1-11-15   | 1G0137 | 16 7/8    | 9 1/2           | 26 3/8 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 70          | 1 1/4    | 1"        |
| VSE 1-12-15-1 | 1G0619 | 17 5/8    | 9 1/2           | 27 1/8 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 73          | 1 1/4    | 1"        |
| VSE 1 13-15   | 1G0161 | 18 3/8    | 9 1/2           | 27 7/8 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 73          | 1 1/4    | 1"        |
| VSE 1 13-15-1 | 1G0160 | 18 3/8    | 9 1/2           | 27 7/8 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 73          | 1 1/4    | 1"        |
| VSE 1-15-20-1 | 1G0620 | 19 3/4    | 9 1/2 - 11 1/2  | 29 1/4 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 75          | 1 1/4    | 1"        |
| VSE 1-17-20-1 | 1G0162 | 21 1/8    | 9 1/2 - 11 1/2  | 30 5/8 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 75          | 1 1/4    | 1"        |
| VSE 1-17-20   | 1G0163 | 21 1/8    | 9 1/2 - 11 1/2  | 30 5/8 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 75          | 1 1/4    | 1"        |
| VSE 1-17-20   | 1G0463 | 21 1/8    | 9 1/2 - 11 1/2  | 30 5/8 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 75          | 1 1/4    | 1"        |
| VSE 1-19-30   | 1G0621 | 23 1/8    | 10 7/8 - 11 1/2 | 34     | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 84          | 1 1/4    | 1"        |
| VSE 1-21-30   | 1G0165 | 24 5/8    | 10 7/8 - 11 1/2 | 35 3/8 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 84          | 1 1/4    | 1"        |
| VSE 1-21-30   | 1G0471 | 24 5/8    | 10 7/8 - 11 1/2 | 35 3/8 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 84          | 1 1/4    | 1"        |
| VSE 1 21-30-1 | 1G0164 | 24 5/8    | 10 7/8 - 11 1/2 | 35 3/8 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 84          | 1 1/4    | 1"        |
| VSE 1-23-30   | 1G0141 | 26        | 10 7/8 - 11 1/2 | 36 3/4 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 95          | 1 1/4    | 1"        |
| VSE 1-25-30   | 1G0622 | 27 3/8    | 10 7/8 - 11 1/2 | 38 1/4 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 99          | 1 1/4    | 1"        |
| VSE 1-27-40   | 1G0623 | 28 7/8    | 11 1/2          | 39 5/8 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/8 | 3 | 3/5 | 110         | 1 1/4    | 1"        |

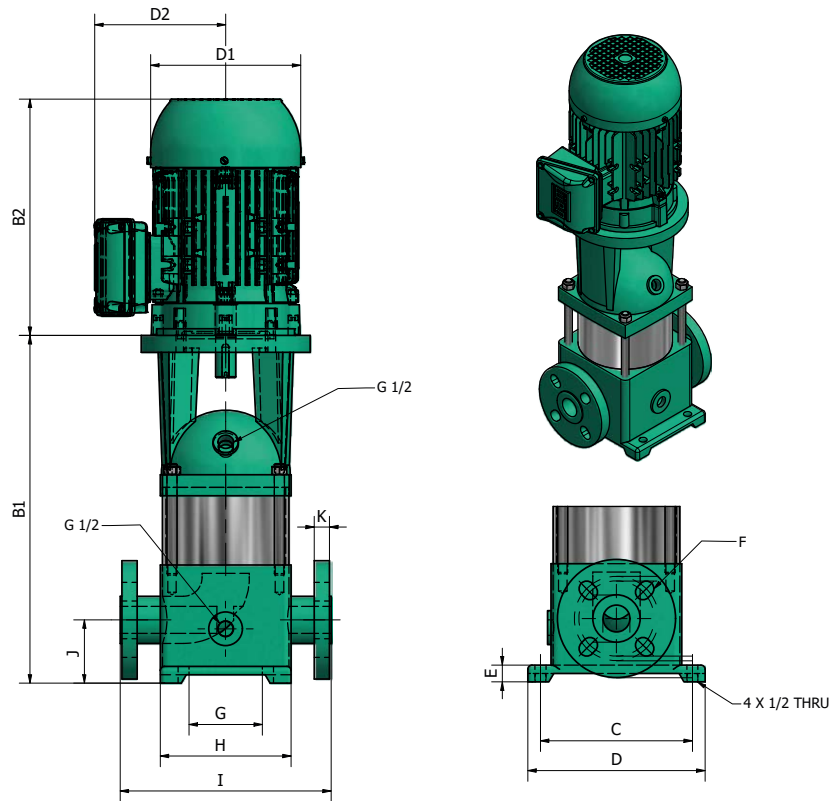
Note: ANSI B16.5 Flanges for dimensions see page 52-53.  
 Dimensions in inches.  
 Technical specifications are subject to change without prior notice.



# Dimensional VSE Line VSE 2

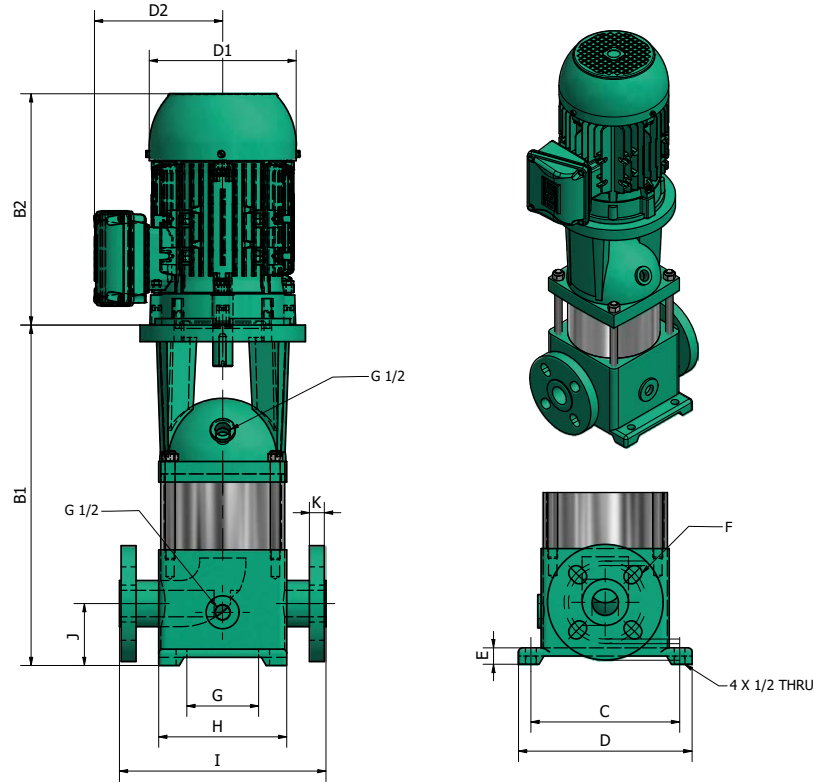


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| Model         | Ref.   | Size (in) |                 |       |       |        |   |       |     |     |   |   |       |   | Weight (lb) | Suc (in) | Disc (in) |    |
|---------------|--------|-----------|-----------------|-------|-------|--------|---|-------|-----|-----|---|---|-------|---|-------------|----------|-----------|----|
|               |        | B1        | B2              | B1+B2 | D1    | D2     | C | D     | E   | F   | G | H | I     | J |             |          |           | K  |
| VSE 2-11-30   | 1G0167 | 17 1/4    | 10 5/6 - 11 1/2 | 28    | 7     | 4 4/7  | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/6 | 3 | 3/4         | 77.16    | 1 1/4     | 1" |
| VSE 2-11-30   | 1G0467 | 17 1/4    | 10 5/6 - 11 1/2 | 28    | 7     | 4 4/7  | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/6 | 3 | 3/4         | 77.16    | 1 1/4     | 1" |
| VSE 2-11-30-1 | 1G0166 | 17 1/4    | 10 5/6 - 11 1/2 | 28    | 7     | 4 4/7  | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/6 | 3 | 3/4         | 77.16    | 1 1/4     | 1" |
| VSE 2-18-50   | 1G0168 | 23        | 12              | 35    | 7 3/4 | 5 5/16 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/6 | 3 | 3/4         | 99.3     | 1 1/4     | 1" |
| VSE 2-18-50   | 1G0475 | 23        | 12              | 35    | 7 3/4 | 5 5/16 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/6 | 3 | 3/4         | 99.3     | 1 1/4     | 1" |

Nota: Bridas ANSI B16.5 para las dimensiones ver página 52-53



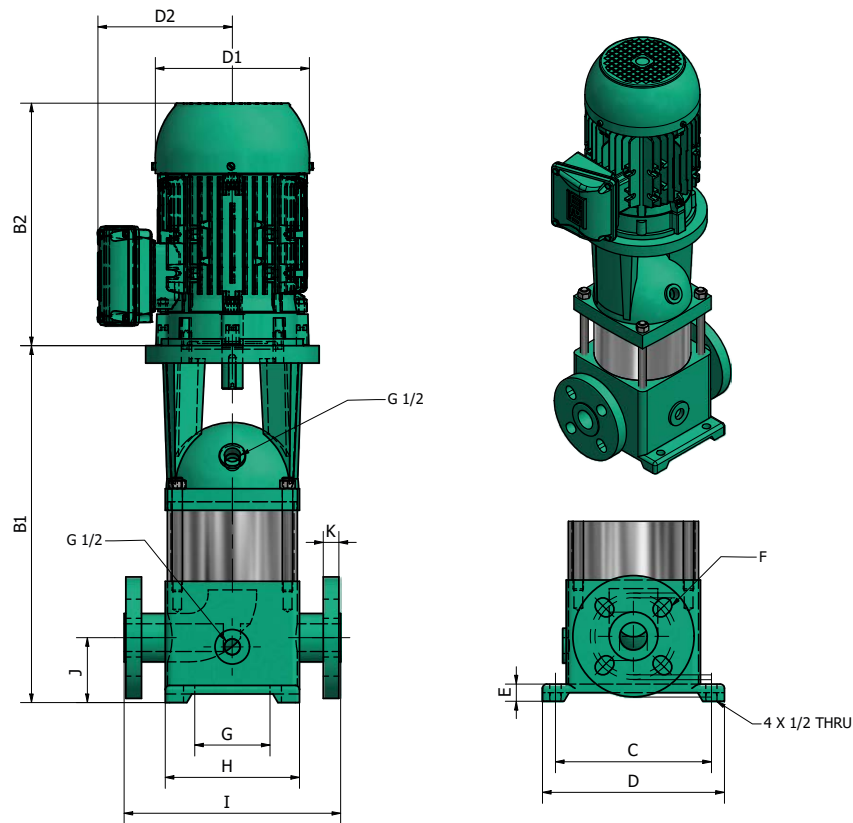
| Model         | Ref    | Size (in) |                 |        |       |       |   |       |     |     |   |   |        |   |     | Weight (lb) | Suc (in) | Disc (in) |
|---------------|--------|-----------|-----------------|--------|-------|-------|---|-------|-----|-----|---|---|--------|---|-----|-------------|----------|-----------|
|               |        | B1        | B2              | B1+B2  | D1    | D2    | C | D     | E   | F   | G | H | I      | J | K   |             |          |           |
| VSE 3-2-5-1   | 1G0624 | 10 1/4    | 8 1/8           | 18 1/4 | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 44          | 1 1/4    | 1"        |
| VSE 3-3-7-1   | 1G0625 | 10 7/8    | 8 1/8           | 19     | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 46          | 1 1/4    | 1"        |
| VSE 3-4-7-1   | 1G0626 | 11 5/8    | 8 1/8           | 19 5/8 | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 49          | 1 1/4    | 1"        |
| VSE 3-5-10-1  | 1G0627 | 12 3/8    | 8 1/8           | 20 3/8 | 5 1/4 | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 51          | 1 1/4    | 1"        |
| VSE 3-6-15-1  | 1G0628 | 13 1/4    | 9 1/2           | 22 3/4 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 55          | 1 1/4    | 1"        |
| VSE 3-7-15-1  | 1G0629 | 14        | 9 1/2           | 23 1/2 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 57          | 1 1/4    | 1"        |
| VSE 3-8-15    | 1G0142 | 14 5/8    | 9 1/2           | 24 1/8 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 57          | 1 1/4    | 1"        |
| VSE 3-9-20-1  | 1G0630 | 15 3/8    | 9 1/2 - 11 1/2  | 24 7/8 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 66          | 1 1/4    | 1"        |
| VSE 3-10-20-1 | 1G0631 | 16 1/8    | 9 1/2 - 11 1/2  | 25 5/8 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 66          | 1 1/4    | 1"        |
| VSE 3 11-20-1 | 1G0193 | 16 3/4    | 9 1/2 - 11 1/2  | 26 1/4 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 68          | 1 1/4    | 1"        |
| VSE 3-11-20   | 1G0143 | 16 3/4    | 9 1/2 - 11 1/2  | 26 1/4 | 6 1/8 | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 68          | 1 1/4    | 1"        |
| VSE 3-12-30   | 1G0632 | 17 7/8    | 10 7/8 - 11 1/2 | 28 5/8 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 77          | 1 1/4    | 1"        |
| VSE 3-13-30   | 1G0633 | 18 1/2    | 10 7/8 - 11 1/2 | 29 3/8 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 79          | 1 1/4    | 1"        |
| VSE 3-15-30   | 1G0144 | 20        | 10 7/8 - 11 1/2 | 30 3/4 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 82          | 1 1/4    | 1"        |
| VSE 3-15-30   | 1G0459 | 20        | 10 7/8 - 11 1/2 | 30 3/4 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 82          | 1 1/4    | 1"        |
| VSE 3-17-30   | 1G0145 | 21 3/8    | 10 7/8 - 11 1/2 | 32 1/4 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 84          | 1 1/4    | 1"        |
| VSE 3-17-30   | 1G0469 | 21 3/8    | 10 7/8 - 11 1/2 | 32 1/4 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 84          | 1 1/4    | 1"        |
| VSE 3 17-30-1 | 1G0194 | 21 3/8    | 10 7/8 - 11 1/2 | 32 1/4 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 84          | 1 1/4    | 1"        |
| VSE 3-19-40   | 1G0634 | 22 3/4    | 11 1/2          | 33 5/8 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 93          | 1 1/4    | 1"        |
| VSE 3-21-40   | 1G0635 | 12 3/8    | 11 1/2          | 35     | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 95          | 1 1/4    | 1"        |
| VSE 3-23-40   | 1G0636 | 25 5/8    | 11 1/2          | 36 1/2 | 7     | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 97          | 1 1/4    | 1"        |
| VSE 3 25-50   | 1G0169 | 27 7/8    | 12              | 36 1/2 | 7 3/4 | 5 7/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 110         | 1 1/4    | 1"        |
| VSE 3 25-50   | 1G0476 | 27 7/8    | 12              | 36 1/2 | 7 3/4 | 5 7/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 110         | 1 1/4    | 1"        |

Note: ANSI B16.5 Flanges for dimensions see page 52-53.  
Dimensions in inches.  
Technical specifications are subject to change without prior notice.

# Dimensional VSE Line VSE 4

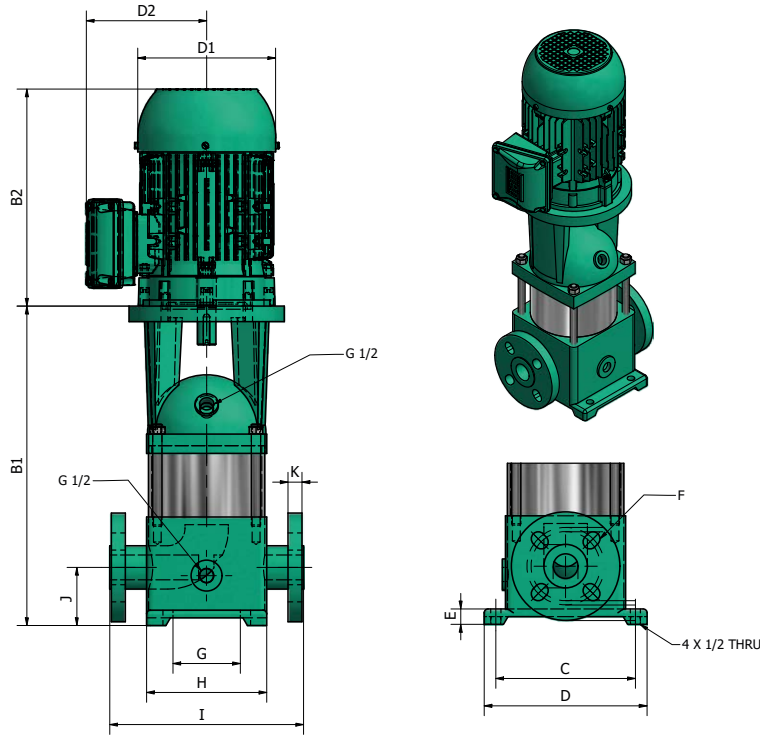


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| Model        | Ref    | Size (in) |                 |        |        |       |   |       |     |     |   |   |        |   | Weight (lb) | Suc (in) | Disc (in) |    |
|--------------|--------|-----------|-----------------|--------|--------|-------|---|-------|-----|-----|---|---|--------|---|-------------|----------|-----------|----|
|              |        | B1        | B2              | B1+B2  | D1     | D2    | C | D     | E   | F   | G | H | I      | J |             |          |           | K  |
| VSE 4-2-10-1 | 1G0637 | 10 3/8    | 8 1/8           | 18 3/8 | 5 1/4  | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 55       | 1 1/4     | 1" |
| VSE 4-3-15-1 | 1G0638 | 11 1/4    | 9 1/2           | 20 3/4 | 6 1/8  | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 62       | 1 1/4     | 1" |
| VSE 4-4-20-1 | 1G0639 | 12        | 9 1/2 - 11 1/2  | 21 1/2 | 6      | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 66       | 1 1/4     | 1" |
| VSE 4-5-30   | 1G0640 | 13        | 10 7/8 - 11 1/2 | 23 7/8 | 7      | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 84       | 1 1/4     | 1" |
| VSE 4-6-30   | 1G0641 | 13 3/4    | 10 7/8 - 11 1/2 | 24 1/2 | 7      | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 86       | 1 1/4     | 1" |
| VSE 4-7-40   | 1G0642 | 14 3/8    | 11 1/2          | 26     | 7      | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 95       | 1 1/4     | 1" |
| VSE 4-8-40   | 1G0643 | 15 1/8    | 11 1/2          | 26 5/8 | 7      | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 97       | 1 1/4     | 1" |
| VSE 4-8-40   | 1G0195 | 15 1/8    | 11 1/2          | 26 5/8 | 7      | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 97       | 1 1/4     | 1" |
| VSE 4-8-40   | 1G0472 | 15 1/8    | 11 1/2          | 26 5/8 | 7      | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 97       | 1 1/4     | 1" |
| VSE 4-10-50  | 1G0644 | 17 3/8    | 12              | 29 3/8 | 7 3/4  | 5 7/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 99       | 1 1/4     | 1" |
| VSE 4-12-50  | 1G0170 | 18 3/4    | 12              | 30 3/4 | 7 3/4  | 5 7/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 101      | 1 1/4     | 1" |
| VSE 4-12-50  | 1G0473 | 18 3/4    | 12              | 30 3/4 | 7 3/4  | 5 7/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 101      | 1 1/4     | 1" |
| VSE 4-14-75  | 1G0645 | 20 3/8    | 15 3/8          | 35 3/4 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 163      | 1 1/4     | 1" |
| VSE 4-16-75  | 1G0171 | 21 3/4    | 15 3/8          | 37 1/8 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 165      | 1 1/4     | 1" |
| VSE 4-16-75  | 1G0477 | 21 3/4    | 15 3/8          | 37 1/8 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5         | 165      | 1 1/4     | 1" |

Note: ANSI B16.5 Flanges for dimensions see page 52-53.  
Dimensions in inches.  
Technical specifications are subject to change without prior notice.



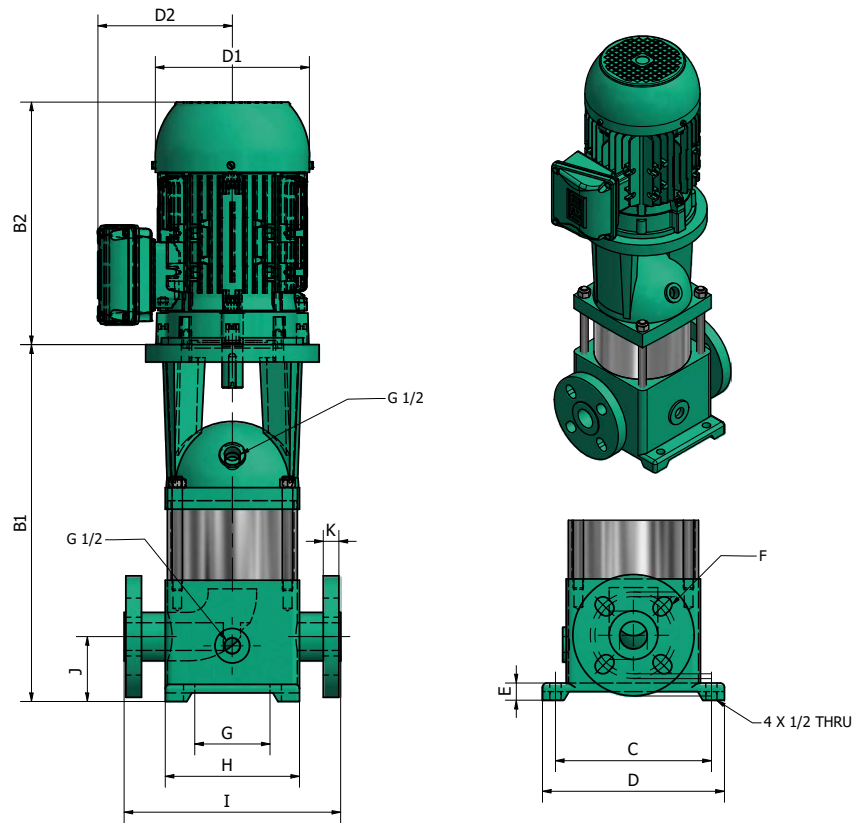
| Model        | Ref    | Size (in) |                 |        |        |       |   |       |     |     |   |   |        |   |     | Weight (lb) | Suc (in) | Disc (in) |
|--------------|--------|-----------|-----------------|--------|--------|-------|---|-------|-----|-----|---|---|--------|---|-----|-------------|----------|-----------|
|              |        | B1        | B2              | B1+B2  | D1     | D2    | C | D     | E   | F   | G | H | I      | J | K   |             |          |           |
| VSE 5-2-7-1  | 1G0723 | 11        | 8 1/8           | 19 1/8 | 5 1/4  | 4     | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 55          | 1 1/4    | 1"        |
| VSE 5-3-15-1 | 1G0724 | 12 3/8    | 9 1/2           | 21 3/4 | 6 1/8  | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 62          | 1 1/4    | 1"        |
| VSE 5-4-15-1 | 1G0725 | 13 3/8    | 9 1/2           | 23     | 6      | 4 3/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 64          | 1 1/4    | 1"        |
| VSE 5-5-20-1 | 1G0726 | 14 1/2    | 9 1/2 - 11 1/2  | 23 7/8 | 7      | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 66          | 1 1/4    | 1"        |
| VSE 5-6-30   | 1G0727 | 16 1/4    | 10 7/8 - 11 1/2 | 27     | 7      | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 73          | 1 1/4    | 1"        |
| VSE 5-7-30   | 1G0728 | 16 7/8    | 10 7/8 - 11 1/2 | 27 3/4 | 7      | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 75          | 1 1/4    | 1"        |
| VSE 5-8-30   | 1G0729 | 18        | 11 7/8 - 11 1/2 | 28 3/4 | 7      | 4 5/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 84          | 1 1/4    | 1"        |
| VSE 5-9-30-1 | 1G0177 | 19        | 12 7/8 - 11 1/2 | 29 7/8 | 7 3/4  | 5 7/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 88          | 1 1/4    | 1"        |
| VSE 5-9-30   | 1G0178 | 19        | 12 7/8 - 11 1/2 | 29 7/8 | 7 3/4  | 5 7/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 88          | 1 1/4    | 1"        |
| VSE 5-9-30   | 1G0465 | 19        | 12 7/8 - 11 1/2 | 29 7/8 | 7 3/4  | 5 7/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 88          | 1 1/4    | 1"        |
| VSE 5-10-40  | 1G0730 | 20 1/8    | 11 1/2          | 31 1/2 | 7 3/4  | 5 7/8 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 90          | 1 1/4    | 1"        |
| VSE 5-11-40  | 1G0731 | 21 1/8    | 11 1/2          | 32 3/4 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 93          | 1 1/4    | 1"        |
| VSE 5-12-40  | 1G0732 | 22 1/4    | 11 1/2          | 33 3/4 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 95          | 1 1/4    | 1"        |
| VSE 5-13-55  | 1G0733 | 24        | 12              | 36 1/8 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 117         | 1 1/4    | 1"        |
| VSE 5-14-55  | 1G0734 | 25 1/8    | 12              | 37 1/8 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 119         | 1 1/4    | 1"        |
| VSE 5-15-55  | 1G0735 | 26 1/8    | 12              | 38 1/4 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 121         | 1 1/4    | 1"        |
| VSE 5-16-5   | 1G0179 | 27 1/4    | 12              | 39 1/4 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 123         | 1 1/4    | 1"        |
| VSE 5-16-5   | 1G0474 | 27 1/4    | 12              | 39 1/4 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 123         | 1 1/4    | 1"        |
| VSE 5-18-75  | 1G0736 | 29 5/8    | 15 3/8          | 44 7/8 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 168         | 1 1/4    | 1"        |
| VSE 5-20-75  | 1G0737 | 31 3/4    | 15 3/8          | 47     | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 172         | 1 1/4    | 1"        |
| VSE 5-22-75  | 1G0180 | 33 7/8    | 15 3/8          | 49 1/8 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 179         | 1 1/4    | 1"        |
| VSE 5-22-75  | 1G0478 | 33 7/8    | 15 3/8          | 49 1/8 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 179         | 1 1/4    | 1"        |
| VSE 5-24-100 | 1G0738 | 36        | 15 3/8          | 51 1/4 | 10 7/8 | 8 1/4 | 7 | 8 1/4 | 4/5 | 5/8 | 4 | 6 | 9 5/16 | 3 | 3/5 | 187         | 1 1/4    | 1"        |

Note: ANSI B16.5 Flanges for dimensions see page 52-53.  
 Dimensions in inches.  
 Technical specifications are subject to change without prior notice.

# Dimensional VSE Line VSE 10

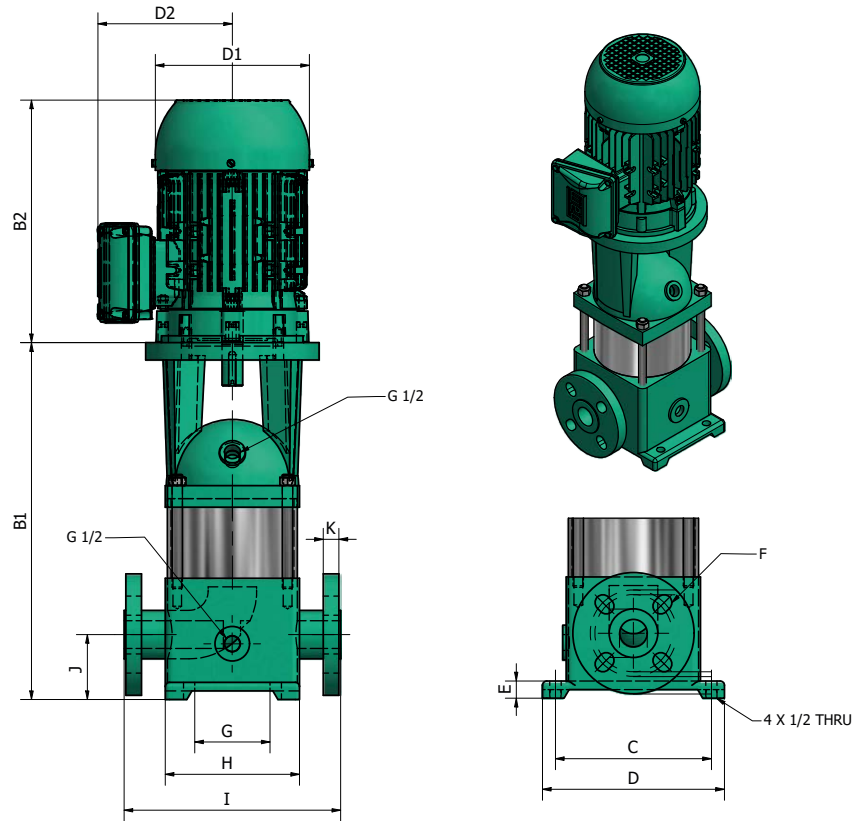


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| Model         | Ref    | Size (in) |                 |        |        |       |       |    |   |     |       |       |    |       |     | Weight (lb) | Suc (in) | Disc (in) |
|---------------|--------|-----------|-----------------|--------|--------|-------|-------|----|---|-----|-------|-------|----|-------|-----|-------------|----------|-----------|
|               |        | B1        | B2              | B1+B2  | D1     | D2    | C     | D  | E | F   | G     | H     | I  | J     | K   |             |          |           |
| VSE 10-1-10-1 | 1G0646 | 12 1/2    | 8 1/8           | 20 5/8 | 5 1/4  | 4     | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 73          | 1 1/2    | 1 1/2     |
| VSE 10-2-20-1 | 1G0647 | 15 1/8    | 9 1/2 - 11 1/2  | 24 5/8 | 6 1/8  | 4 3/8 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 90          | 1 1/2    | 1 1/2     |
| VSE 10-3-30   | 1G0181 | 16 5/8    | 10 7/8 - 11 1/2 | 27 1/2 | 7      | 4 5/8 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 95          | 1 1/2    | 1 1/2     |
| VSE 10-4-40   | 1G0648 | 17 7/8    | 11 1/2          | 28 5/8 | 7      | 4 5/8 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 108         | 1 1/2    | 1 1/2     |
| VSE 10-5-40   | 1G0649 | 19        | 11 1/2          | 29 7/8 | 7      | 4 5/8 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 110         | 1 1/2    | 1 1/2     |
| VSE 10-5-40   | 1G0533 | 19        | 11 1/2          | 29 7/8 | 7      | 4 5/8 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 110         | 1 1/2    | 1 1/2     |
| VSE 10-6-50   | 1G0147 | 21        | 12              | 33     | 7 3/4  | 5 7/8 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 134         | 1 1/2    | 1 1/2     |
| VSE 10-6-50   | 1G0479 | 21        | 12              | 33     | 7 3/4  | 5 7/8 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 134         | 1 1/2    | 1 1/2     |
| VSE 10-7-75   | 1G0650 | 23        | 15 3/8          | 38 3/8 | 10 7/8 | 8 1/4 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 183         | 1 1/2    | 1 1/2     |
| VSE 10-8-75   | 1G0148 | 24 1/8    | 15 3/8          | 39 1/2 | 10 7/8 | 8 1/4 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 187         | 1 1/2    | 1 1/2     |
| VSE 10-9-75   | 1G0196 | 25 3/8    | 15 3/8          | 40 3/4 | 10 7/8 | 8 1/4 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 190         | 1 1/2    | 1 1/2     |
| VSE 10-9-75   | 1G0480 | 25 3/8    | 15 3/8          | 40 3/4 | 10 7/8 | 8 1/4 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 190         | 1 1/2    | 1 1/2     |
| VSE 10-10-100 | 1G0149 | 26 1/2    | 15 3/8          | 41 7/8 | 10 7/8 | 8 1/4 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 198         | 1 1/2    | 1 1/2     |
| VSE 10 12-100 | 1G0172 | 28 7/8    | 15 3/8          | 44 1/4 | 10 7/8 | 8 1/4 | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 203         | 1 1/2    | 1 1/2     |
| VSE 10-14-150 | 1G0151 | 35 1/4    | 19 7/8          | 55 1/8 | 13     | 10    | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 273         | 1 1/2    | 1 1/2     |
| VSE 10-16-150 | 1G0651 | 37 1/2    | 19 7/8          | 57 1/2 | 13     | 10    | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 278         | 1 1/2    | 1 1/2     |
| VSE 10-17-150 | 1G0652 | 38 3/4    | 19 7/8          | 58 5/8 | 13     | 10    | 8 1/2 | 10 | 1 | 5/8 | 5 1/8 | 7 2/5 | 11 | 3 1/7 | 3/5 | 287         | 1 1/2    | 1 1/2     |

Note: ANSI B16.5 Flanges for dimensions see page 52-53.  
Dimensions in inches.  
Technical specifications are subject to change without prior notice.



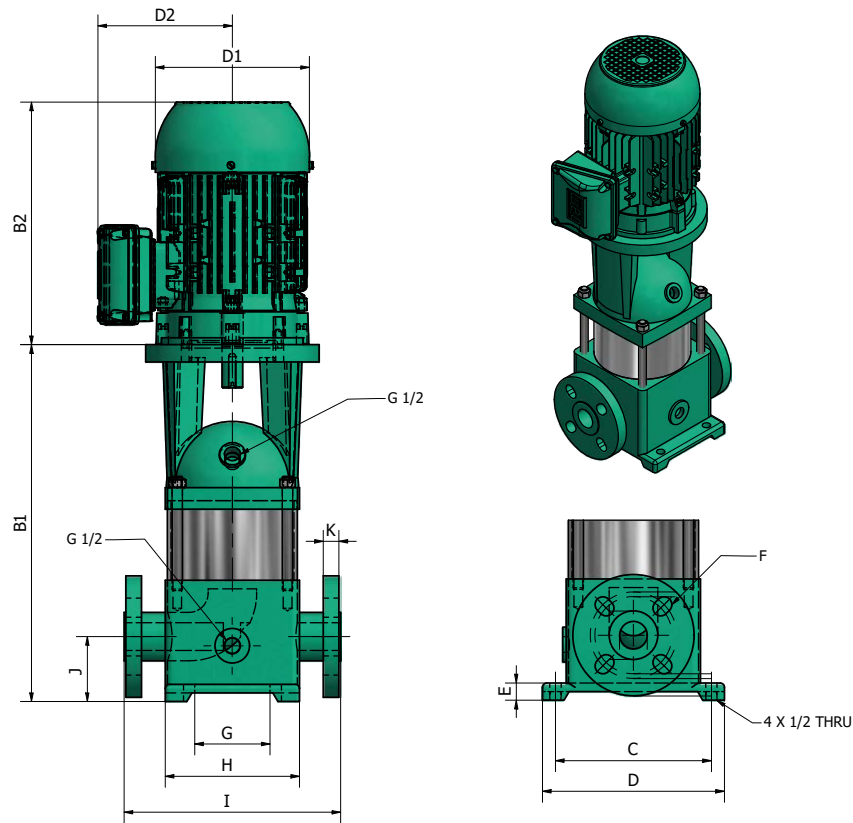
| Model         | Ref    | Size (in) |                |        |        |       |       |    |   |     |       |       |        |       |     | Weight (lb) | Suc (in) | Disc (in) |
|---------------|--------|-----------|----------------|--------|--------|-------|-------|----|---|-----|-------|-------|--------|-------|-----|-------------|----------|-----------|
|               |        | B1        | B2             | B1+B2  | D1     | D2    | C     | D  | E | F   | G     | H     | I      | J     | K   |             |          |           |
| VSE 15-1-20-1 | 1G0653 | 14        | 9 1/2 - 11 1/2 | 23 1/2 | 6 1/8  | 4 3/8 | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 104         | 2        | 2         |
| VSE 15-2-40   | 1G0654 | 16        | 11 1/2         | 26 3/4 | 7      | 4 5/8 | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 119         | 2        | 2         |
| VSE 15-3-50   | 1G0655 | 18 3/4    | 12             | 30 3/4 | 7 3/4  | 5 7/8 | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 143         | 2        | 2         |
| VSE 15-4-75   | 1G0152 | 21 3/8    | 15 3/8         | 36 3/4 | 10 7/8 | 8 1/4 | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 185         | 2        | 2         |
| VSE 15-4-75   | 1G0484 | 21 3/8    | 15 3/8         | 36 3/4 | 10 7/8 | 8 1/4 | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 185         | 2        | 2         |
| VSE 15-5-100  | 1G0153 | 23 1/8    | 15 3/8         | 38 1/2 | 10 7/8 | 8 1/4 | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 201         | 2        | 2         |
| VSE 15-6-150  | 1G0656 | 26 1/8    | 19 7/8         | 46     | 13     | 10    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 271         | 2        | 2         |
| VSE 15-7-150  | 1G0657 | 27 3/4    | 19 7/8         | 47 5/8 | 13     | 10    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 276         | 2        | 2         |
| VSE 15-8-150  | 1G0173 | 29 5/8    | 19 7/8         | 49 1/2 | 13     | 10    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 278         | 2        | 2         |
| VSE 15-9-200  | 1G0658 | 31 3/8    | 19 7/8         | 51 1/4 | 13     | 10    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 315         | 2        | 2         |
| VSE 15-10-200 | 1G0155 | 33 1/8    | 19 7/8         | 53     | 13     | 10    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 317         | 2        | 2         |
| VSE 15-12-250 | 1G0156 | 36 3/4    | 22             | 58 3/4 | 13     | 13    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 3/5 | 346         | 2        | 2         |

Note: ANSI B16.5 Flanges for dimensions see page 52-53.  
Dimensions in inches.  
Technical specifications are subject to change without prior notice.

# Dimensional VSE Line VSE 20



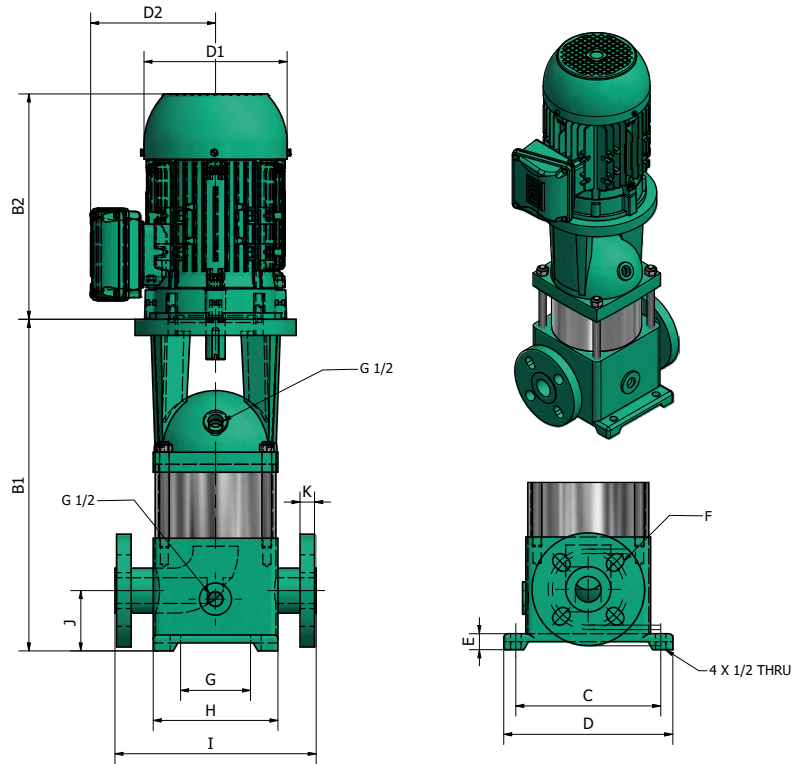
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| Model         | Ref.   | Size (in) |                 |        |        |       |       |    |   |     |       |       |        |       |   | Weight (lb) | Suc (in) | Disc (in) |
|---------------|--------|-----------|-----------------|--------|--------|-------|-------|----|---|-----|-------|-------|--------|-------|---|-------------|----------|-----------|
|               |        | B1        | B2              | B1+B2  | D1     | D2    | C     | D  | E | F   | G     | H     | I      | J     | K |             |          |           |
| VSE 20-1-30   | 1G0739 | 14 1/4    | 10 3/4 - 11 1/2 | 25     | 7      | 4 5/8 | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 1 | 110         | 2        | 2         |
| VSE 20-2-55   | 1G0740 | 16 3/4    | 12              | 28 3/4 | 7 3/4  | 5 7/8 | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 1 | 141         | 2        | 2         |
| VSE 20-3-75   | 1G0741 | 19 1/4    | 15 3/8          | 34 3/4 | 10 3/4 | 8 1/4 | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 1 | 190         | 2        | 2         |
| VSE 20-4-100  | 1G0527 | 21 1/8    | 15 3/8          | 36 1/2 | 10 7/8 | 8 1/4 | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 1 | 198         | 2        | 2         |
| VSE 20-4-100  | 1G0742 | 21 1/8    | 15 3/8          | 36 1/2 | 10 7/8 | 8 1/4 | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 1 | 198         | 2        | 2         |
| VSE 20-5-150  | 1G0743 | 24 1/8    | 19 7/8          | 44     | 13     | 10    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 1 | 269         | 2        | 2         |
| VSE 20-6-150  | 1G0197 | 25 7/8    | 19 7/8          | 45 3/4 | 13     | 10    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 1 | 271         | 2        | 2         |
| VSE 20-7-200  | 1G0744 | 27 3/4    | 19 7/8          | 47 1/2 | 13     | 10    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 1 | 306         | 2        | 2         |
| VSE 20-8-200  | 1G0174 | 29 3/8    | 19 7/8          | 49 1/2 | 13     | 10    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 1 | 311         | 2        | 2         |
| VSE 20-8-200  | 1G0745 | 29 3/8    | 19 7/8          | 49 1/2 | 13     | 10    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 1 | 311         | 2        | 2         |
| VSE 20-10-250 | 1G0746 | 33        | 22              | 55     | 13     | 10    | 8 1/2 | 10 | 1 | 3/4 | 5 1/8 | 7 2/5 | 11 4/5 | 3 1/2 | 1 | 340         | 2        | 2         |

Note: ANSI B16.5 Flanges for dimensions see page 52-53.  
 Dimensions in inches.  
 Technical specifications are subject to change without prior notice.





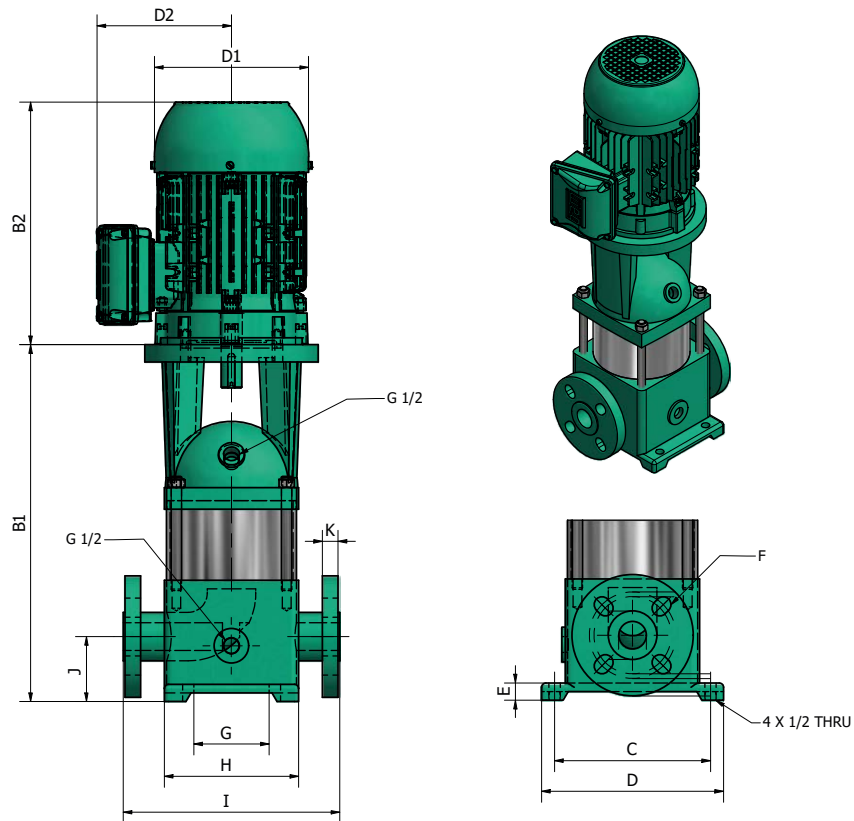
| Model           | Ref.   | Size (in) |             |        |        |       |       |        |       |     |       |       |        |       |     | Weight (lb) | Suc (in) | Disc (in) |
|-----------------|--------|-----------|-------------|--------|--------|-------|-------|--------|-------|-----|-------|-------|--------|-------|-----|-------------|----------|-----------|
|                 |        | B1        | B2          | B1+B2  | D1     | D2    | C     | D      | E     | F   | G     | H     | I      | J     | K   |             |          |           |
| VSE 32-1-1-30   | 1G0677 | 18 3/4    | 10,8 / 11,5 | 29 1/2 | 7      | 4 5/8 | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 176         | 2 1/2    | 2 1/2     |
| VSE 32-1-40     | 1G0678 | 18 3/4    | 11 1/2      | 29 1/2 | 7      | 4 5/8 | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 187         | 2 1/2    | 2 1/2     |
| VSE 32-2-2-75   | 1G0679 | 22 5/8    | 15 3/8      | 38     | 10 7/8 | 8 1/4 | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 227         | 2 1/2    | 2 1/2     |
| VSE 32-2-1-75   | 1G0680 | 22 5/8    | 15 3/8      | 38     | 10 7/8 | 8 1/4 | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 227         | 2 1/2    | 2 1/2     |
| VSE 32-2-100    | 1G0681 | 22 5/8    | 15 3/8      | 38     | 10 7/8 | 8 1/4 | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 236         | 2 1/2    | 2 1/2     |
| VSE 32-3-2-150  | 1G0450 | 29 3/4    | 19 7/8      | 49 5/8 | 13     | 10    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 326         | 2 1/2    | 2 1/2     |
| VSE 32-3-2-150  | 1G0682 | 29 3/4    | 19 7/8      | 49 5/8 | 13     | 10    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 326         | 2 1/2    | 2 1/2     |
| VSE 32-3-150    | 1G0157 | 29 3/4    | 19 7/8      | 49 5/8 | 13     | 10    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 326         | 2 1/2    | 2 1/2     |
| VSE 32-4-2-150  | 1G0158 | 32 1/2    | 19 7/8      | 52 3/8 | 13     | 10    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 348         | 2 1/2    | 2 1/2     |
| VSE 32-5-2-200  | 1G0175 | 35 1/4    | 19 7/8      | 55 1/8 | 13     | 10    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 441         | 2 1/2    | 2 1/2     |
| VSE 32-5-250    | 1G0684 | 35 1/4    | 19 7/8      | 55 1/8 | 13     | 10    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 441         | 2 1/2    | 2 1/2     |
| VSE 32-6-2-250  | 1G0685 | 38        | 19 7/8      | 57 7/8 | 13     | 10    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 448         | 2 1/2    | 2 1/2     |
| VSE 32-6-250    | 1G0182 | 38        | 19 7/8      | 57 7/8 | 13     | 10    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 448         | 2 1/2    | 2 1/2     |
| VSE 32-7-2-300  | 1G0686 | 40 3/4    | 19 7/8      | 60 5/8 | 13     | 10    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 573         | 2 1/2    | 2 1/2     |
| VSE 32-7-300    | 1G0183 | 40 3/4    | 19 7/8      | 60 5/8 | 13     | 10    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 573         | 2 1/2    | 2 1/2     |
| VSE 32-8-2-400  | 1G0687 | 43 1/2    | 26          | 69 1/2 | 16 1/2 | 12    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 761         | 2 1/2    | 2 1/2     |
| VSE 32-8-400    | 1G0688 | 43 1/2    | 26          | 69 1/2 | 16 1/2 | 12    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 761         | 2 1/2    | 2 1/2     |
| VSE 32-9-2-400  | 1G0689 | 46 1/4    | 26          | 72 1/4 | 16 1/2 | 12    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 767         | 2 1/2    | 2 1/2     |
| VSE 32-9-400    | 1G0184 | 46 1/4    | 26          | 72 1/4 | 16 1/2 | 12    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 767         | 2 1/2    | 2 1/2     |
| VSE 32-10-2-400 | 1G0198 | 49        | 26          | 75     | 16 1/2 | 12    | 9 4/9 | 11 3/4 | 1 2/9 | 3/4 | 6 2/3 | 8 6/7 | 12 3/5 | 4 1/7 | 4/5 | 772         | 2 1/2    | 2 1/2     |

Note: ANSI B16.5 Flanges for dimensions see page 52-53.  
Dimensions in inches.  
Technical specifications are subject to change without prior notice.

# Dimensional VSE Line VSE 45

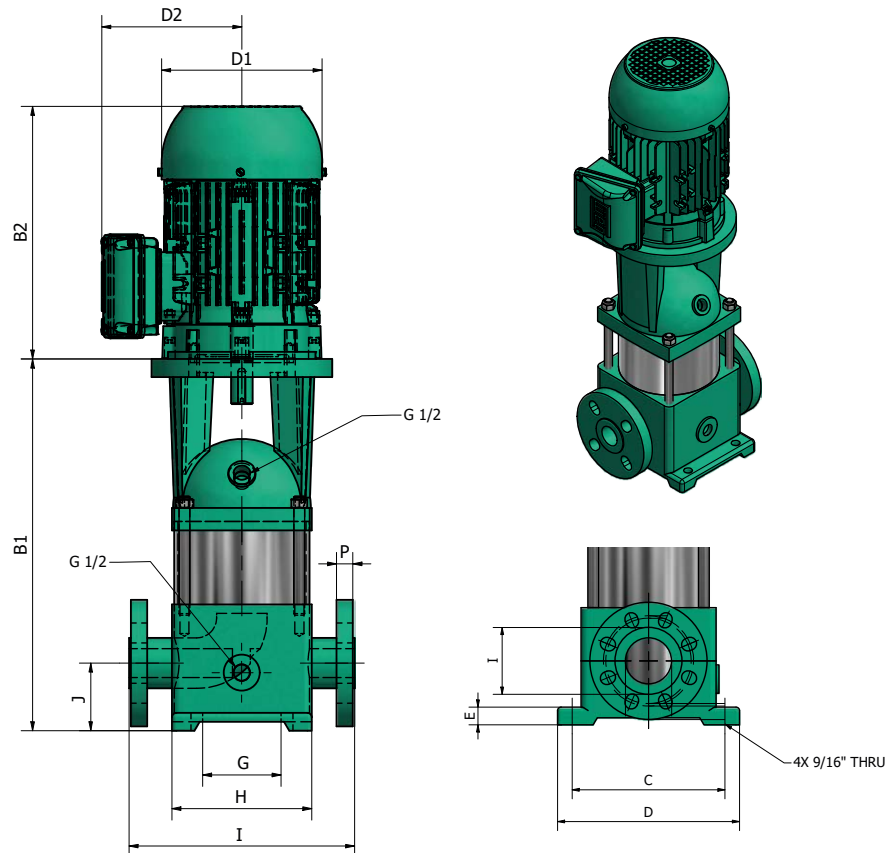


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| Model          | Ref.   | Size (in) |        |        |        |        |       |        |   |     |       |       |        |       |       | Weight (lb) | Suc (in) | Disc (in) |
|----------------|--------|-----------|--------|--------|--------|--------|-------|--------|---|-----|-------|-------|--------|-------|-------|-------------|----------|-----------|
|                |        | B1        | B2     | B1+B2  | D1     | D2     | C     | D      | E | F   | G     | H     | I      | J     | K     |             |          |           |
| VSE 45-1-75    | 1G0659 | 22 1/8    | 16 7/8 | 39     | 10 1/4 | 8 1/4  | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 238         | 3        | 3         |
| VSE 45-1-100   | 1G0660 | 22 1/8    | 16 7/8 | 39     | 10 1/4 | 8 1/4  | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 249         | 3        | 3         |
| VSE 45-2-150   | 1G0661 | 29 1/2    | 19 1/4 | 48 3/4 | 13     | 10     | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 340         | 3        | 3         |
| VSE 45-2-200   | 1G0185 | 29 1/2    | 19 1/4 | 48 3/4 | 13     | 10     | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 412         | 3        | 3         |
| VSE 45-3-250   | 1G0662 | 32 5/8    | 21 5/8 | 54 1/4 | 13     | 10     | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 443         | 3        | 3         |
| VSE 45-3-250   | 1G0176 | 32 5/8    | 21 5/8 | 54 1/4 | 13     | 10     | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 443         | 3        | 3         |
| VSE 45-4-2-300 | 1G0187 | 35 3/4    | 26     | 61 3/4 | 16 1/2 | 12 1/4 | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 569         | 3        | 3         |
| VSE 45-5-2-400 | 1G0664 | 38 7/8    | 26     | 64 7/8 | 16 1/2 | 12 1/4 | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 752         | 3        | 3         |
| VSE 45-5-400   | 1G0188 | 38 7/8    | 26     | 64 7/8 | 16 1/2 | 12 1/4 | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 752         | 3        | 3         |
| VSE 45-6-2-500 | 1G0665 | 42        | 26     | 68     | 16 1/2 | 12 1/4 | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 805         | 3        | 3         |
| VSE 45-6-500   | 1G0451 | 42        | 26     | 68     | 16 1/2 | 12 1/4 | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 805         | 3        | 3         |
| VSE 45-7-2-600 | 1G0667 | 45 1/4    | 27 1/2 | 72 3/4 | 26 3/8 | 13 5/8 | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 959         | 3        | 3         |
| VSE 45-7-2-600 | 1G0199 | 45 1/4    | 27 1/2 | 72 3/4 | 18 1/2 | 13 5/8 | 9 4/9 | 11 3/4 | 1 | 3/4 | 6 2/3 | 8 8/9 | 12 3/5 | 4 1/7 | 1 1/9 | 959         | 3        | 3         |

Note: ANSI B16.5 Flanges for dimensions see page 52-53.  
Dimensions in inches.  
Technical specifications are subject to change without prior notice.



| Model          | Ref.   | Size (in) |        |        |        |        |        |    |       |     |       |       |        |       |       | Weight (lb) | Suc (in) | Disc (in) |
|----------------|--------|-----------|--------|--------|--------|--------|--------|----|-------|-----|-------|-------|--------|-------|-------|-------------|----------|-----------|
|                |        | B1        | B2     | B1+B2  | D1     | D2     | C      | D  | E     | F   | G     | H     | I      | J     | K     |             |          |           |
| VSE 64-1-1-100 | 1G0747 | 22 1/8    | 16 7/8 | 39     | 10 1/4 | 8 1/4  | 10 1/2 | 13 | 1 7/9 | 3/4 | 7 1/2 | 9 7/8 | 14 3/8 | 5 1/2 | 1 1/9 | 254         | 4        | 4         |
| VSE 64-1-150   | 1G0748 | 26 3/8    | 19 1/4 | 45 3/4 | 13     | 10     | 10 1/2 | 13 | 1 7/9 | 3/4 | 7 1/2 | 9 7/8 | 14 3/8 | 5 1/2 | 1 1/9 | 335         | 4        | 4         |
| VSE 64-2-2-200 | 1G0189 | 29 1/2    | 7 2/4  | 37 1/4 | 13     | 10     | 10 1/2 | 13 | 1 7/9 | 3/4 | 7 1/2 | 9 7/8 | 14 3/8 | 5 1/2 | 1 1/9 | 419         | 4        | 4         |
| VSE 64-2-300   | 1G0494 | 29 1/2    | 23 1/4 | 53     | 14 1/8 | 11 1/4 | 10 1/2 | 13 | 1 7/9 | 3/4 | 7 1/2 | 9 7/8 | 14 3/8 | 5 1/2 | 1 1/9 | 556         | 4        | 4         |
| VSE 64-3-2-300 | 1G0190 | 32 7/8    | 23 1/4 | 56 1/4 | 14 1/8 | 11 1/4 | 10 1/2 | 13 | 1 7/9 | 3/4 | 7 1/2 | 9 7/8 | 14 3/8 | 5 1/2 | 1 1/9 | 567         | 4        | 4         |
| VSE 64-3-400   | 1G0191 | 32 7/8    | 26     | 59     | 16 1/2 | 12 1/4 | 10 1/2 | 13 | 1 7/9 | 3/4 | 7 1/2 | 9 7/8 | 14 3/8 | 5 1/2 | 1 1/9 | 739         | 4        | 4         |
| VSE 64-4-2-500 | 1G0750 | 36 1/4    | 26     | 62 1/8 | 16 1/2 | 11 3/4 | 10 1/2 | 13 | 1 7/9 | 3/4 | 7 1/2 | 9 7/8 | 14 3/8 | 5 1/2 | 1 1/9 | 794         | 4        | 4         |
| VSE 64-4-600   | 1G0751 | 36 1/4    | 27 1/2 | 63 3/4 | 18 1/2 | 17 3/4 | 10 1/2 | 13 | 1 7/9 | 3/4 | 7 1/2 | 9 7/8 | 14 3/8 | 5 1/2 | 1 1/9 | 937         | 4        | 4         |
| VSE 64-5-2-600 | 1G0752 | 39 3/8    | 27 1/2 | 67     | 18 1/2 | 17 3/4 | 10 1/2 | 13 | 1 7/9 | 3/4 | 7 1/2 | 9 7/8 | 14 3/8 | 5 1/2 | 1 1/9 | 948         | 4        | 4         |

Note: ANSI B16.5 Flanges for dimensions see page 52-53.  
 Dimensions in inches.  
 Technical specifications are subject to change without prior notice.



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# VSE Line

## Performance Curve

### VSE 1

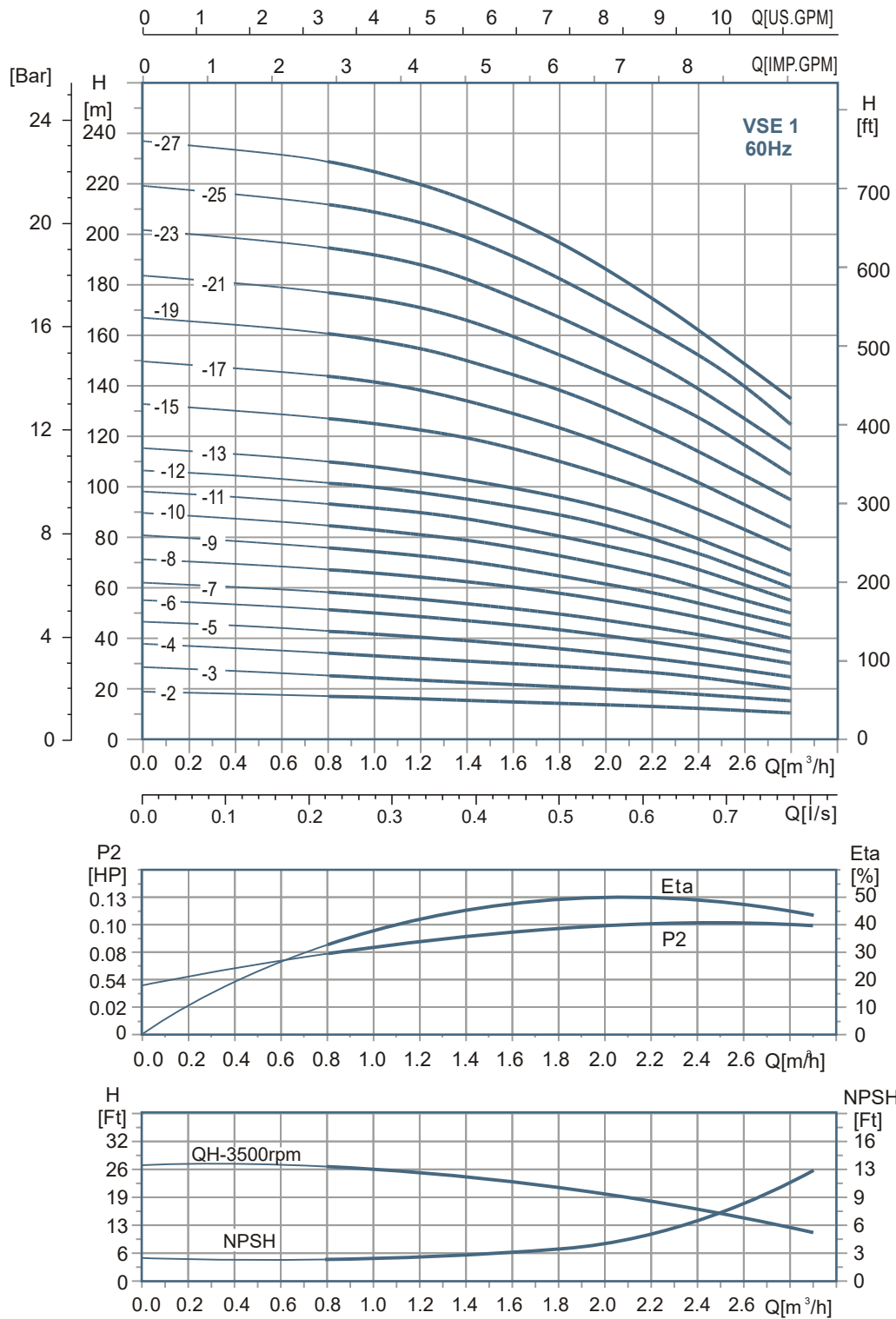


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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-12 (1/2")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 1-2-5-1     | 1G0612    | 2             | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-3-5-1     | 1G0722    | 3             | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-4-5-1     | 1G0613    | 4             | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-5-7-1     | 1G0614    | 5             | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-6-7-1     | 1G0615    | 6             | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-7-10-1    | 1G0616    | 7             | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-8-10-1    | 1G0617    | 8             | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-9-10      | 1G0136    | 9             | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-10-15-1   | 1G0618    | 10            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-11-15     | 1G0137    | 11            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-12-15-1   | 1G0619    | 12            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1 13-15     | 1G0161    | 13            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1 13-15     | 1G0458    | 13            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1 13-15-1   | 1G0160    | 13            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-15-20-1   | 1G0620    | 15            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-17-20-1   | 1G0162    | 17            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-17-20     | 1G0163    | 17            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-17-20     | 1G0463    | 17            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-19-30     | 1G0621    | 19            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1 21-30     | 1G0165    | 21            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1 21-30     | 1G0471    | 21            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1 21-30-1   | 1G0164    | 21            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-23-30     | 1G0141    | 23            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-25-30     | 1G0622    | 25            | 1 1/4"                              | 1"                        | 3"         |
| VSE 1-27-40     | 1G0623    | 27            | 1 1/4"                              | 1"                        | 3"         |

| Motor Features |             |                |
|----------------|-------------|----------------|
| Drive          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 0.5            | 1           | 127/230        |
| 0.5            | 1           | 127/230        |
| 0.5            | 1           | 127/230        |
| 0.75           | 1           | 127/230        |
| 0.75           | 1           | 127/230        |
| 1              | 1           | 127/230        |
| 1              | 1           | 127/230        |
| 1              | 3           | 230/460        |
| 1.5            | 1           | 127/230        |
| 1.5            | 3           | 230/460        |
| 1.5            | 1           | 127/230        |
| 1.5            | 3           | 230/460        |
| 1.5            | 3           | 230/380        |
| 1.5            | 3           | 127/230        |
| 2              | 1           | 230            |
| 2              | 1           | 230/460        |
| 2              | 1           | 127/230        |
| 2              | 1           | 230/380        |
| 3              | 3           | 230/460        |
| 3              | 3           | 230/460        |
| 3              | 3           | 230/380        |
| 3              | 3           | 127/230        |
| 3              | 3           | 230/460        |
| 3              | 3           | 230/460        |
| 4              | 3           | 230/460        |

2 Poles (3450 rpm)





**VSE Line**  
Performance Curve  
VSE 2

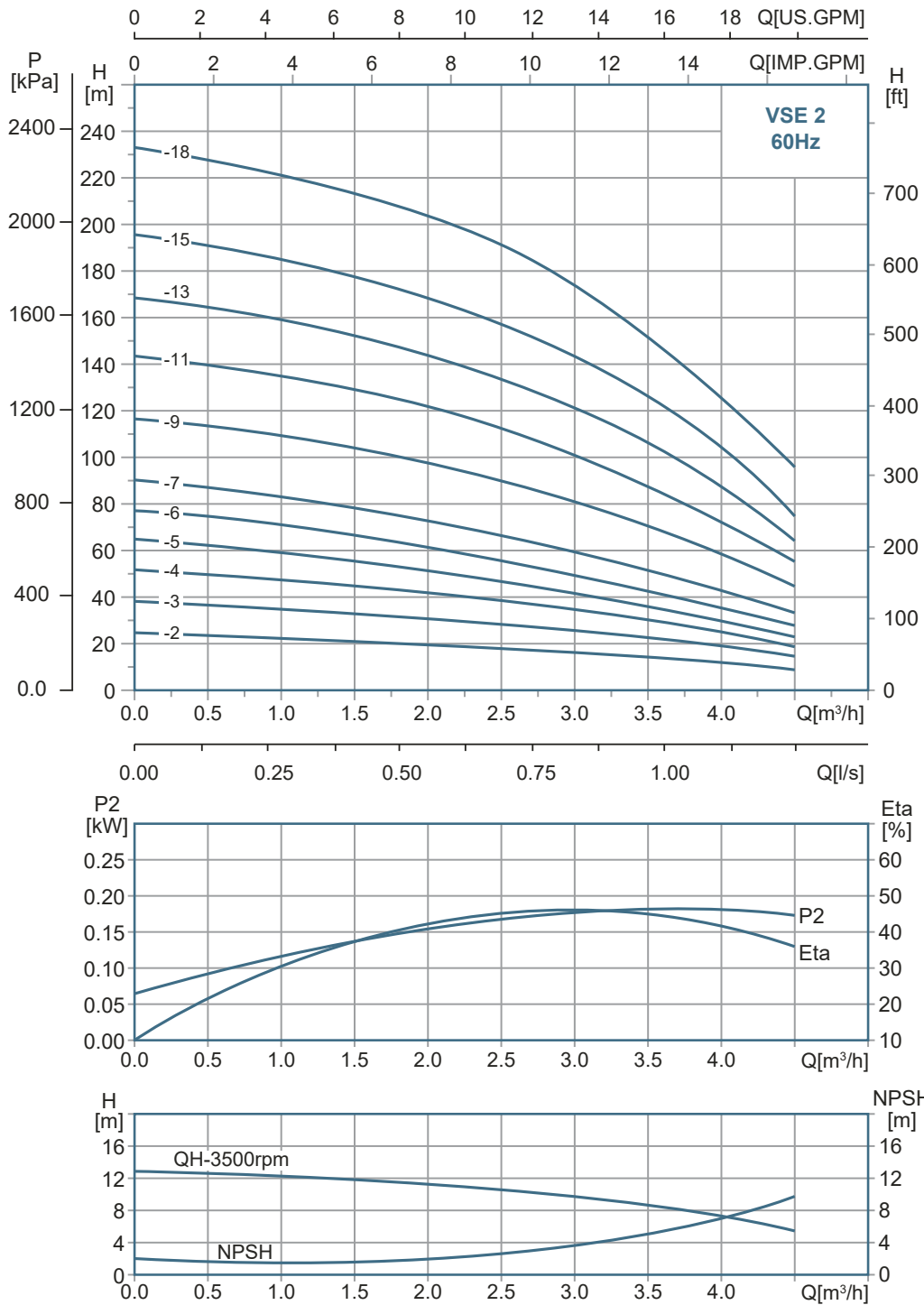


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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-12 (1/2")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 2-11-30-1   | 1G0166    | 11            | 1 1/4"                              | 1"                        | 3"         |
| VSE 2-11-30     | 1G0167    | 11            | 1 1/4"                              | 1"                        | 3"         |
| VSE 2-11-30     | 1G0467    | 11            | 1 1/4"                              | 1"                        | 3"         |
| VSE 2-18-50     | 1G0168    | 18            | 1 1/4"                              | 1"                        | 3"         |
| VSE 2-18-50     | 1G0475    | 18            | 1 1/4"                              | 1"                        | 3"         |

| Motor Features |             |                |
|----------------|-------------|----------------|
| DRIVE          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 3              | 1           | 230            |
| 3              | 3           | 230/460        |
| 3              | 3           | 230/380        |
| 5              | 3           | 230/460        |
| 5              | 3           | 230/380        |

2 Poles (3450 rpm)



# VSE Line

## Performance Curve

### VSE 3

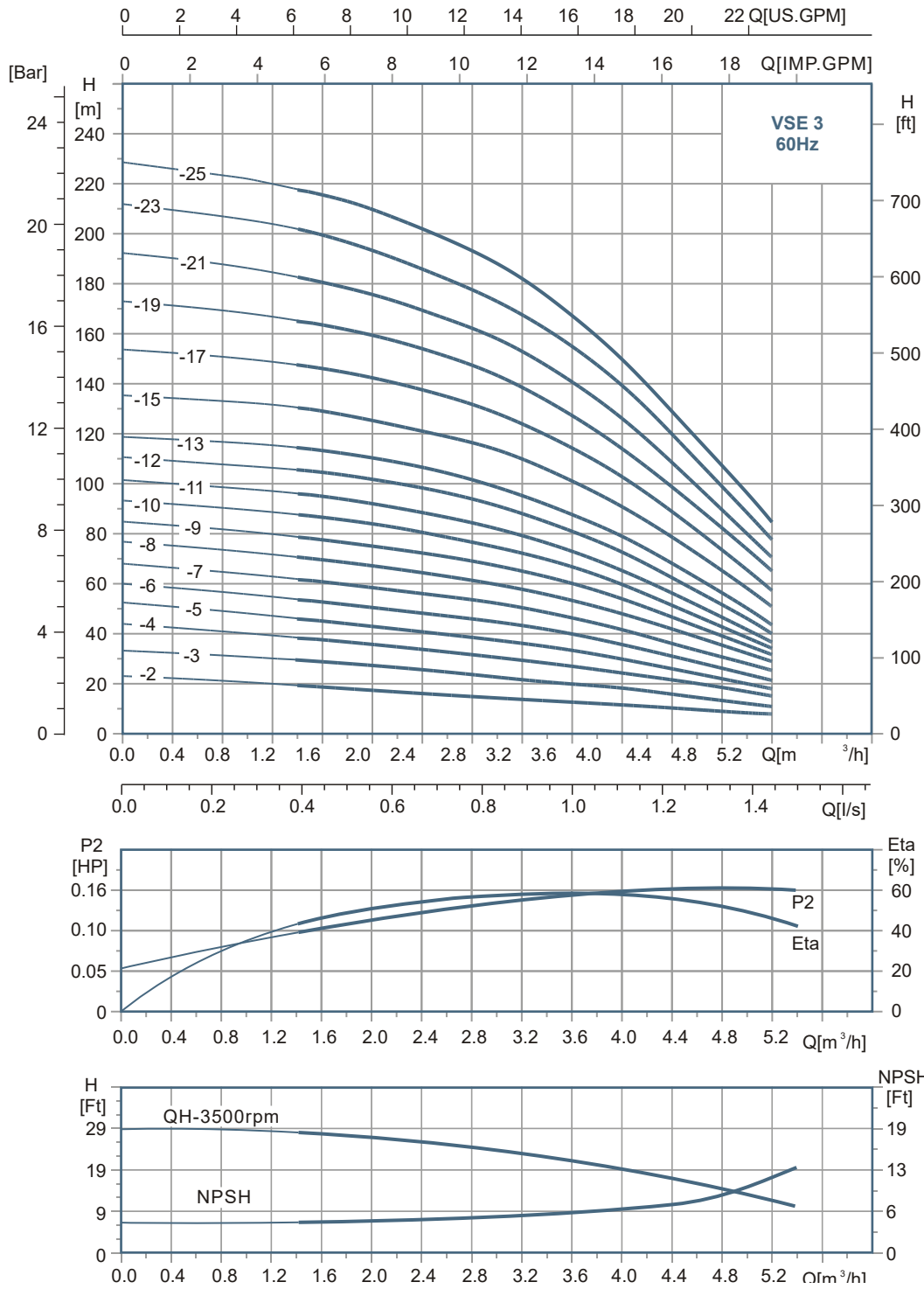


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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-12 (1/2")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 3-2-5-1     | 1G0624    | 2             | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-3-7-1     | 1G0625    | 3             | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-4-7-1     | 1G0626    | 4             | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-5-10-1    | 1G0627    | 5             | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-6-15-1    | 1G0628    | 6             | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-7-15-1    | 1G0629    | 7             | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-8-15      | 1G0142    | 8             | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-9-20-1    | 1G0630    | 9             | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-10-20-1   | 1G0631    | 10            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3 11-20-1   | 1G0193    | 11            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-11-20     | 1G0143    | 11            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-12-30     | 1G0632    | 12            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-13-30     | 1G0633    | 13            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-15-30     | 1G0144    | 15            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-15-30     | 1G0459    | 15            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-17-30     | 1G0145    | 17            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-17-30     | 1G0469    | 17            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3 17-30-1   | 1G0194    | 17            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-19-40     | 1G0634    | 19            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-21-40     | 1G0635    | 21            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3-23-40     | 1G0636    | 23            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3 25-50     | 1G0169    | 25            | 1 1/4"                              | 1"                        | 3"         |
| VSE 3 25-50     | 1G0476    | 25            | 1 1/4"                              | 1"                        | 3"         |

| Motor Features |             |                |
|----------------|-------------|----------------|
| Drive          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 0.5            | 1           | 127/230        |
| 0.7            | 1           | 127/230        |
| 0.7            | 1           | 127/230        |
| 1              | 1           | 127/230        |
| 1.5            | 1           | 127/230        |
| 1.5            | 1           | 127/230        |
| 1.5            | 3           | 230/460        |
| 2              | 1           | 127/230        |
| 2              | 1           | 127/230        |
| 2              | 3           | 127/230        |
| 2              | 3           | 230/460        |
| 3              | 3           | 230/460        |
| 3              | 3           | 230/460        |
| 3              | 3           | 230/460        |
| 3              | 3           | 230/380        |
| 3              | 3           | 230/460        |
| 3              | 3           | 230/380        |
| 3              | 3           | 127/230        |
| 4              | 3           | 220/460        |
| 4              | 3           | 230/460        |
| 4              | 3           | 230/460        |
| 5              | 3           | 230/460        |
| 5              | 3           | 230/380        |

2 Poles (3450 rpm)



**VSE Line**  
Performance Curve  
VSE 4

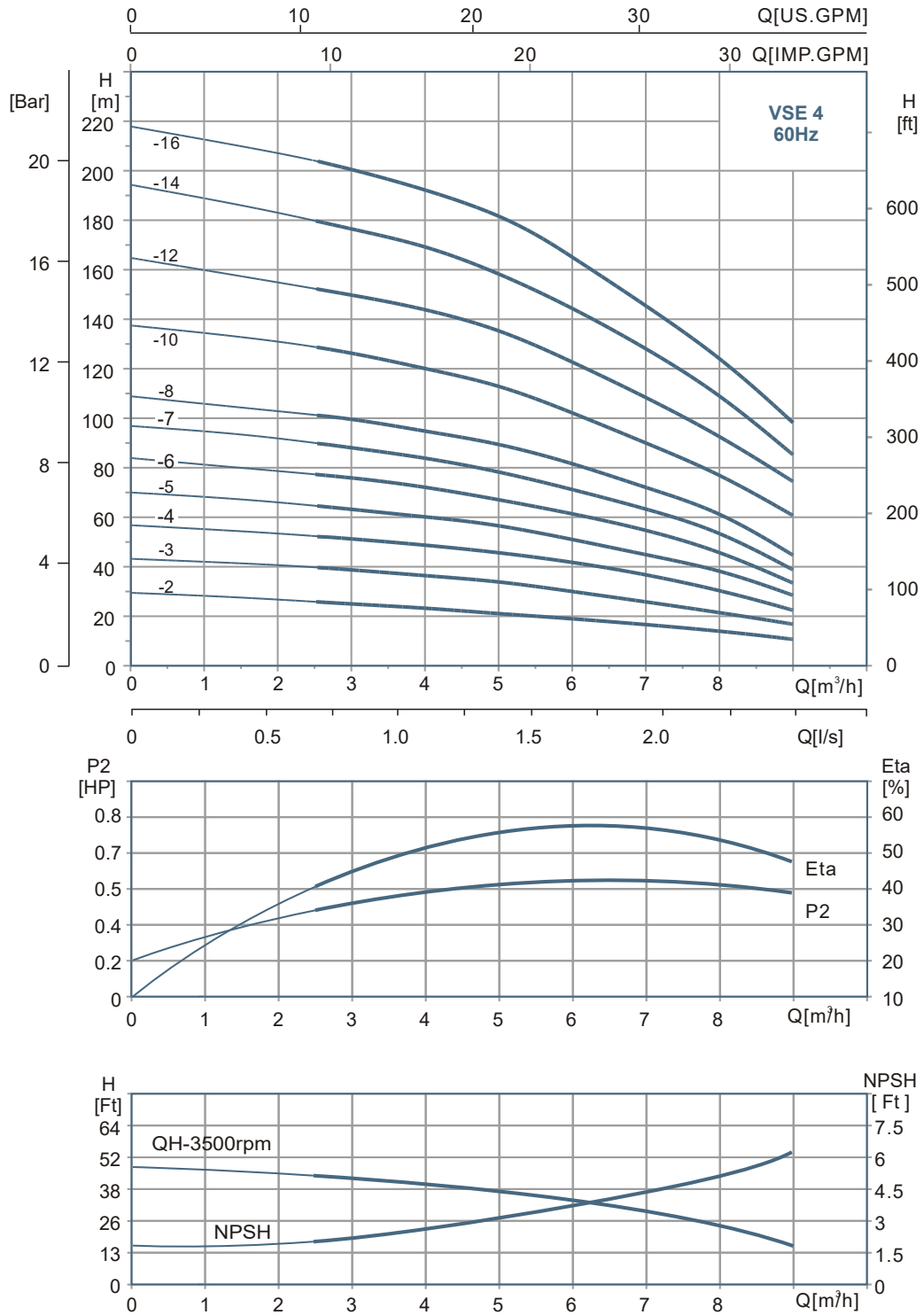


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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-12 (1/2")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 4-2-10-1    | 1G0637    | 2             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-3-15-1    | 1G0638    | 3             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-4-20-1    | 1G0639    | 4             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-5-30      | 1G0640    | 5             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-6-30      | 1G0641    | 6             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-7-40      | 1G0642    | 7             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-8-40      | 1G0643    | 8             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4 8-40      | 1G0195    | 8             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4 8-40      | 1G0472    | 8             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-10-50     | 1G0644    | 10            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-12-50     | 1G0170    | 12            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-12-50     | 1G0473    | 12            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-14-75     | 1G0645    | 14            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-16-75     | 1G0171    | 16            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 4-16-75     | 1G0477    | 16            | 1 1/4"                              | 1"                        | 3 1/2"     |

| Motor Features |             |                |
|----------------|-------------|----------------|
| Drive          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 1              | 1           | 127/230        |
| 1.5            | 1           | 127/230        |
| 2              | 1           | 127/230        |
| 3              | 3           | 230/460        |
| 3              | 3           | 230/460        |
| 4              | 3           | 230/460        |
| 4              | 3           | 230/460        |
| 4              | 3           | 230/380        |
| 5              | 3           | 230/460        |
| 5              | 3           | 230/460        |
| 5              | 3           | 230/380        |
| 7.5            | 3           | 230/460        |
| 7.5            | 3           | 230/460        |
| 7.5            | 3           | 230/380        |

2 Poles (3450 rpm)



# VSE Line

## Performance Curve

### VSE 5



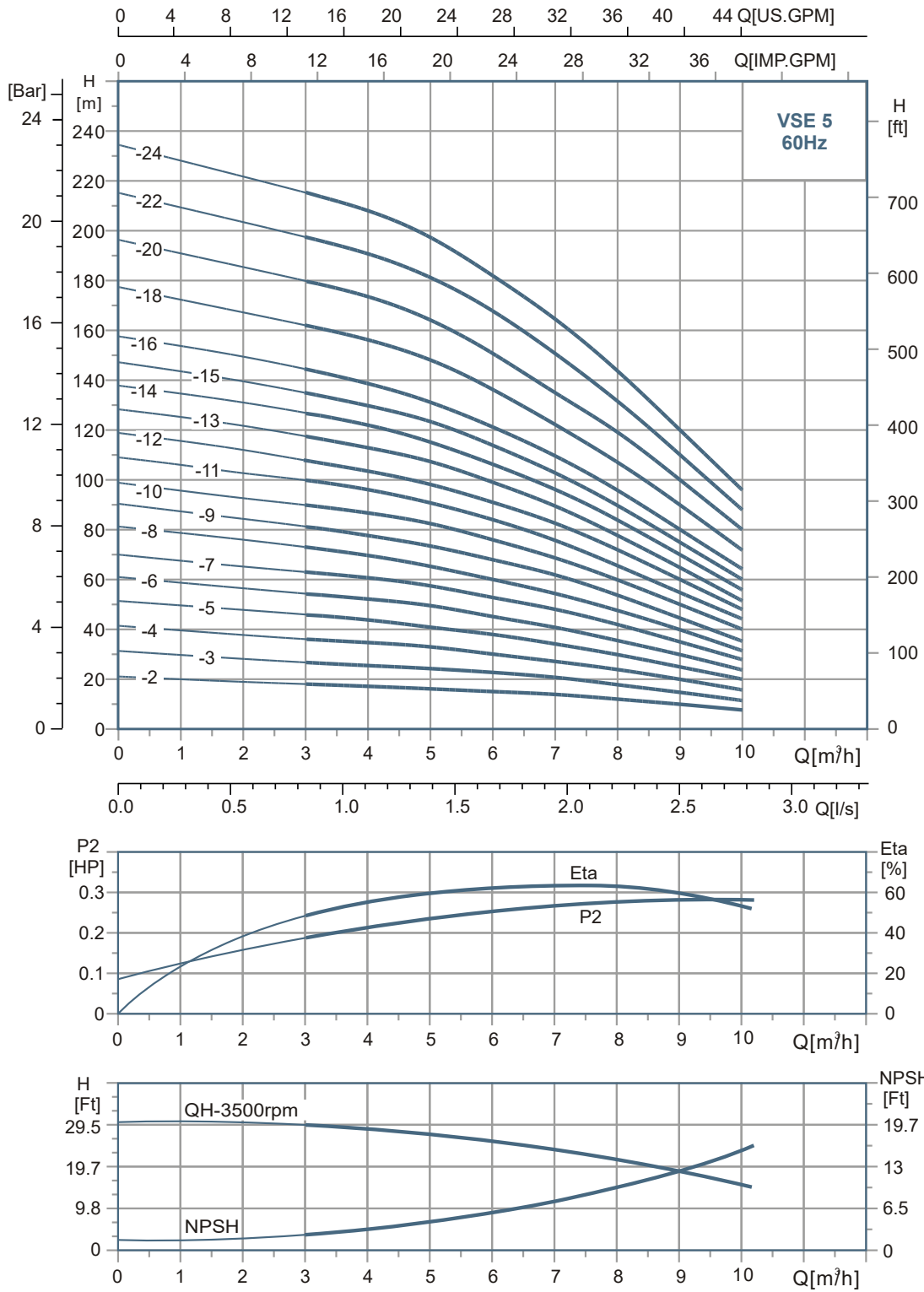
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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-12 (1/2")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 5-2-7-1     | 1G0723    | 2             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-3-15-1    | 1G0724    | 3             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-4-15-1    | 1G0725    | 4             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-5-20-1    | 1G0726    | 5             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-6-30      | 1G0727    | 6             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-7-30      | 1G0728    | 7             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-8-30      | 1G0729    | 8             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-9-30-1    | 1G0177    | 9             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-9-30      | 1G0178    | 9             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-9-30      | 1G0465    | 9             | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-10-40     | 1G0730    | 10            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-11-40     | 1G0731    | 11            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-12-40     | 1G0732    | 12            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-13-55     | 1G0733    | 13            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-14-55     | 1G0734    | 14            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-15-55     | 1G0735    | 15            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-16-5      | 1G0179    | 16            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-16-5      | 1G0474    | 16            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-18-75     | 1G0736    | 18            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-20-75     | 1G0737    | 20            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-22-75     | 1G0180    | 22            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-22-75     | 1G0478    | 22            | 1 1/4"                              | 1"                        | 3 1/2"     |
| VSE 5-24-100    | 1G0738    | 24            | 1 1/4"                              | 1"                        | 3 1/2"     |

| Motor Features |             |                |
|----------------|-------------|----------------|
| Drive          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 0.75           | 1           | 127/230        |
| 1.5            | 1           | 127/230        |
| 1.5            | 1           | 127/230        |
| 2.0            | 1           | 127/230        |
| 3.0            | 3           | 230/460        |
| 3.0            | 3           | 230/460        |
| 3.0            | 3           | 230/460        |
| 3.0            | 1           | 230            |
| 3.0            | 3           | 230/460        |
| 3.0            | 3           | 230/380        |
| 4.0            | 3           | 230/460        |
| 4.0            | 3           | 230/460        |
| 4.0            | 3           | 230/460        |
| 5.5            | 3           | 230/460        |
| 5.5            | 3           | 230/460        |
| 5.5            | 3           | 230/460        |
| 5              | 3           | 230/460        |
| 5              | 3           | 230/380        |
| 7.5            | 3           | 230/460        |
| 7.5            | 3           | 230/460        |
| 7.5            | 3           | 230/460        |
| 7.5            | 3           | 230/380        |
| 10             | 3           | 230/460        |



2 Poles (3450 rpm)



**VSE Line**  
Performance Curve  
VSE 10

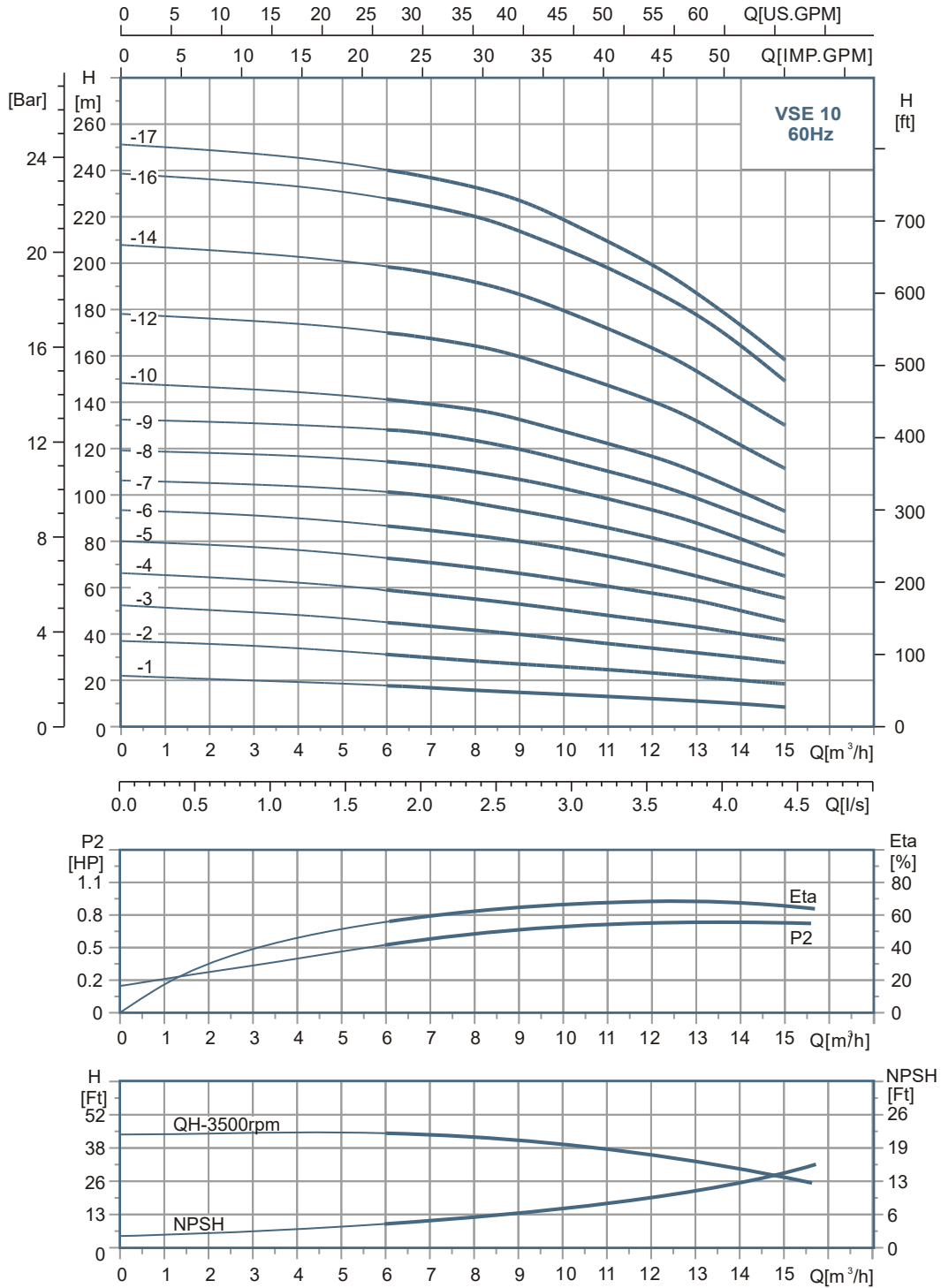


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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-16 (5/8")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 10-1-10-1   | 1G0646    | 1             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-2-20-1   | 1G0647    | 2             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-3-30     | 1G0181    | 3             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-4-40     | 1G0648    | 4             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-5-40     | 1G0649    | 5             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-5-40     | 1G0533    | 5             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-6-50     | 1G0147    | 6             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-6-50     | 1G0479    | 6             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-7-75     | 1G0650    | 7             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-8-75     | 1G0148    | 8             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-9-75     | 1G0196    | 9             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-9-75     | 1G0480    | 9             | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-10-100   | 1G0149    | 10            | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10 12-100   | 1G0172    | 12            | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-14-150   | 1G0151    | 14            | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-16-150   | 1G0651    | 16            | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |
| VSE 10-17-150   | 1G0652    | 17            | 1 1/2"                              | 1 1/2"                    | 3 1/2"     |

| Motor Features |             |                |
|----------------|-------------|----------------|
| Drive          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 1              | 1           | 127/230        |
| 2              | 1           | 127/230        |
| 3              | 3           | 230/460        |
| 4              | 3           | 230/460        |
| 4              | 3           | 230/460        |
| 4              | 3           | 230/380        |
| 5              | 3           | 230/460        |
| 5              | 3           | 230/380        |
| 7.5            | 3           | 230/460        |
| 7.5            | 3           | 230/460        |
| 7.5            | 3           | 230/460        |
| 7.5            | 3           | 230/380        |
| 10             | 3           | 230/380/460    |
| 10             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |

2 Poles (3450 rpm)



**VSE Line**  
Performance Curve  
VSE 15

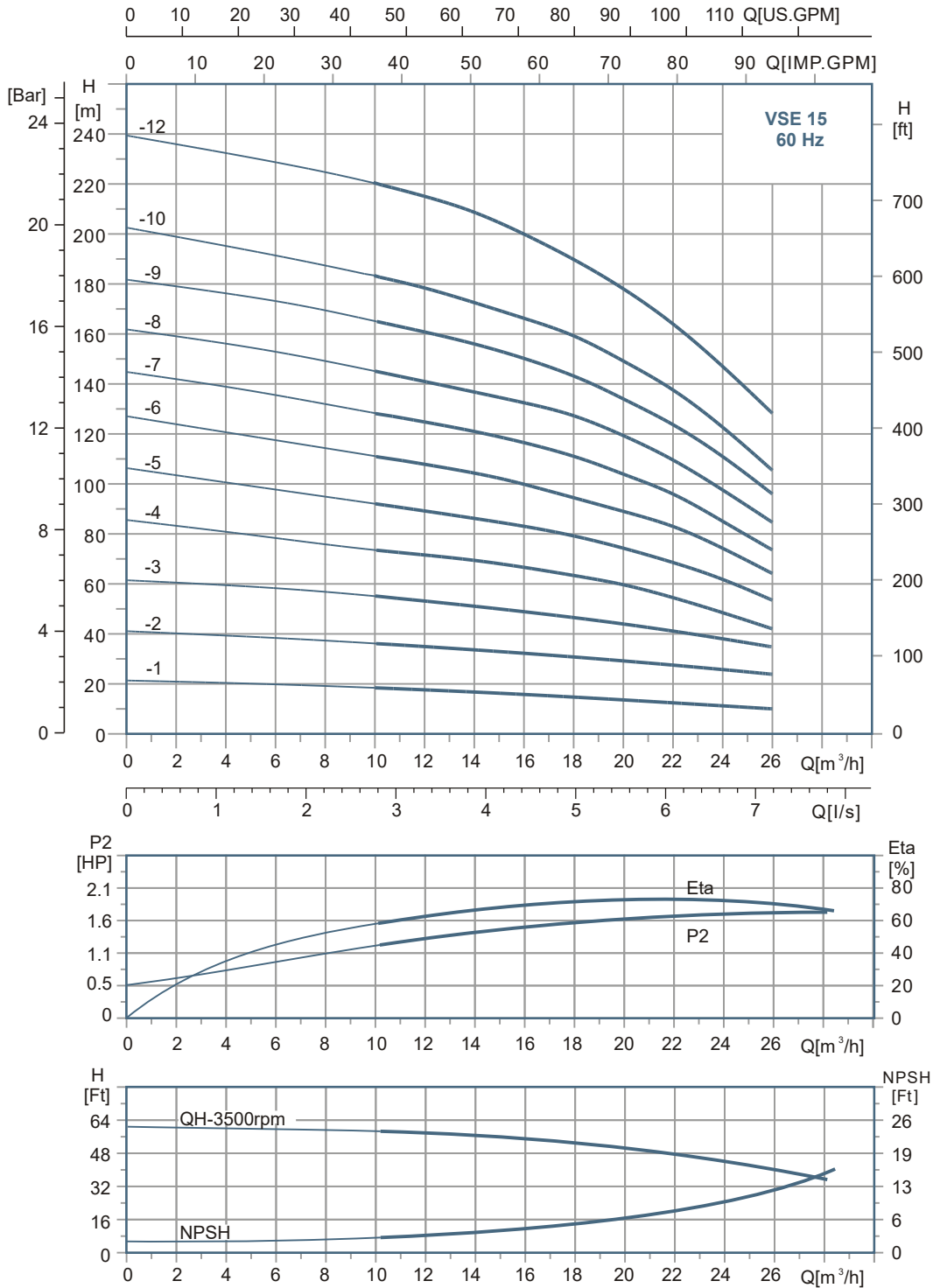


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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-16 (5/8")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 15-1-20-1   | 1G0653    | 1             | 2"                                  | 2"                        | 4"         |
| VSE 15-2-40     | 1G0654    | 2             | 2"                                  | 2"                        | 4"         |
| VSE 15-3-50     | 1G0655    | 3             | 2"                                  | 2"                        | 4"         |
| VSE 15-4-75     | 1G0152    | 4             | 2"                                  | 2"                        | 4"         |
| VSE 15-4-75     | 1G0484    | 4             | 2"                                  | 2"                        | 4"         |
| VSE 15-5-100    | 1G0153    | 5             | 2"                                  | 2"                        | 4"         |
| VSE 15-6-150    | 1G0656    | 6             | 2"                                  | 2"                        | 4"         |
| VSE 15-7-150    | 1G0657    | 7             | 2"                                  | 2"                        | 4"         |
| VSE 15 8-150    | 1G0173    | 8             | 2"                                  | 2"                        | 4"         |
| VSE 15-9-200    | 1G0658    | 9             | 2"                                  | 2"                        | 4"         |
| VSE 15-10-200   | 1G0155    | 10            | 2"                                  | 2"                        | 4"         |
| VSE 15-12-250   | 1G0156    | 12            | 2"                                  | 2"                        | 4"         |

| Motor Features |             |                |
|----------------|-------------|----------------|
| Drive          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 2              | 1           | 127/230        |
| 4              | 3           | 230/460        |
| 5              | 3           | 230/460        |
| 7.5            | 3           | 230/460        |
| 7.5            | 3           | 230/380        |
| 10             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 20             | 3           | 230/380/460    |
| 20             | 3           | 230/380/460    |
| 25             | 3           | 230/380/460    |

2 Poles (3450 rpm)



**VSE Line**  
Performance Curve  
VSE 20

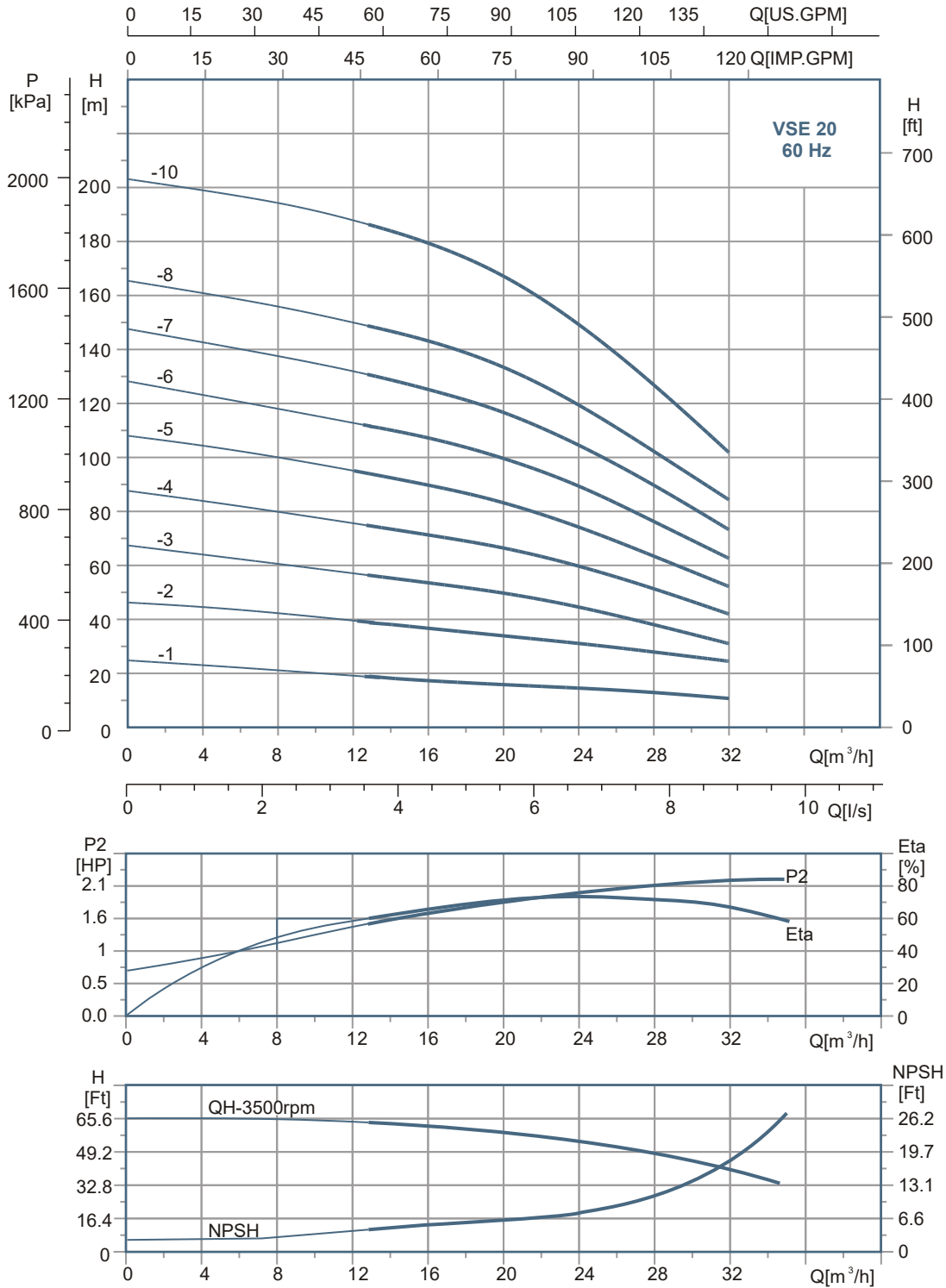


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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-16 (5/8")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 20-1-30     | 1G0739    | 1             | 2"                                  | 2"                        | 4"         |
| VSE 20-2-55     | 1G0740    | 2             | 2"                                  | 2"                        | 4"         |
| VSE 20-3-75     | 1G0741    | 3             | 2"                                  | 2"                        | 4"         |
| VSE 20 4-100    | 1G0527    | 4             | 2"                                  | 2"                        | 4"         |
| VSE 20-4-100    | 1G0742    | 4             | 2"                                  | 2"                        | 4"         |
| VSE 20-5-150    | 1G0743    | 5             | 2"                                  | 2"                        | 4"         |
| VSE 20-6-150    | 1G0197    | 6             | 2"                                  | 2"                        | 4"         |
| VSE 20-7-200    | 1G0744    | 7             | 2"                                  | 2"                        | 4"         |
| VSE 20 8-200    | 1G0174    | 8             | 2"                                  | 2"                        | 4"         |
| VSE 20-8-200    | 1G0745    | 8             | 2"                                  | 2"                        | 4"         |
| VSE 20-10-250   | 1G0746    | 10            | 2"                                  | 2"                        | 4"         |

| Motor Features |             |                |
|----------------|-------------|----------------|
| Drive          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 3              | 3           | 230/460        |
| 5.5            | 3           | 230/460        |
| 7.5            | 3           | 230/460        |
| 10             | 3           | 230/380/460    |
| 10             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 20             | 3           | 230/380/460    |
| 20             | 3           | 230/380/460    |
| 20             | 3           | 230/380/460    |
| 25             | 3           | 230/380/460    |

2 Poles (3450 rpm)



**VSE Line**  
Performance Curve  
VSE 32



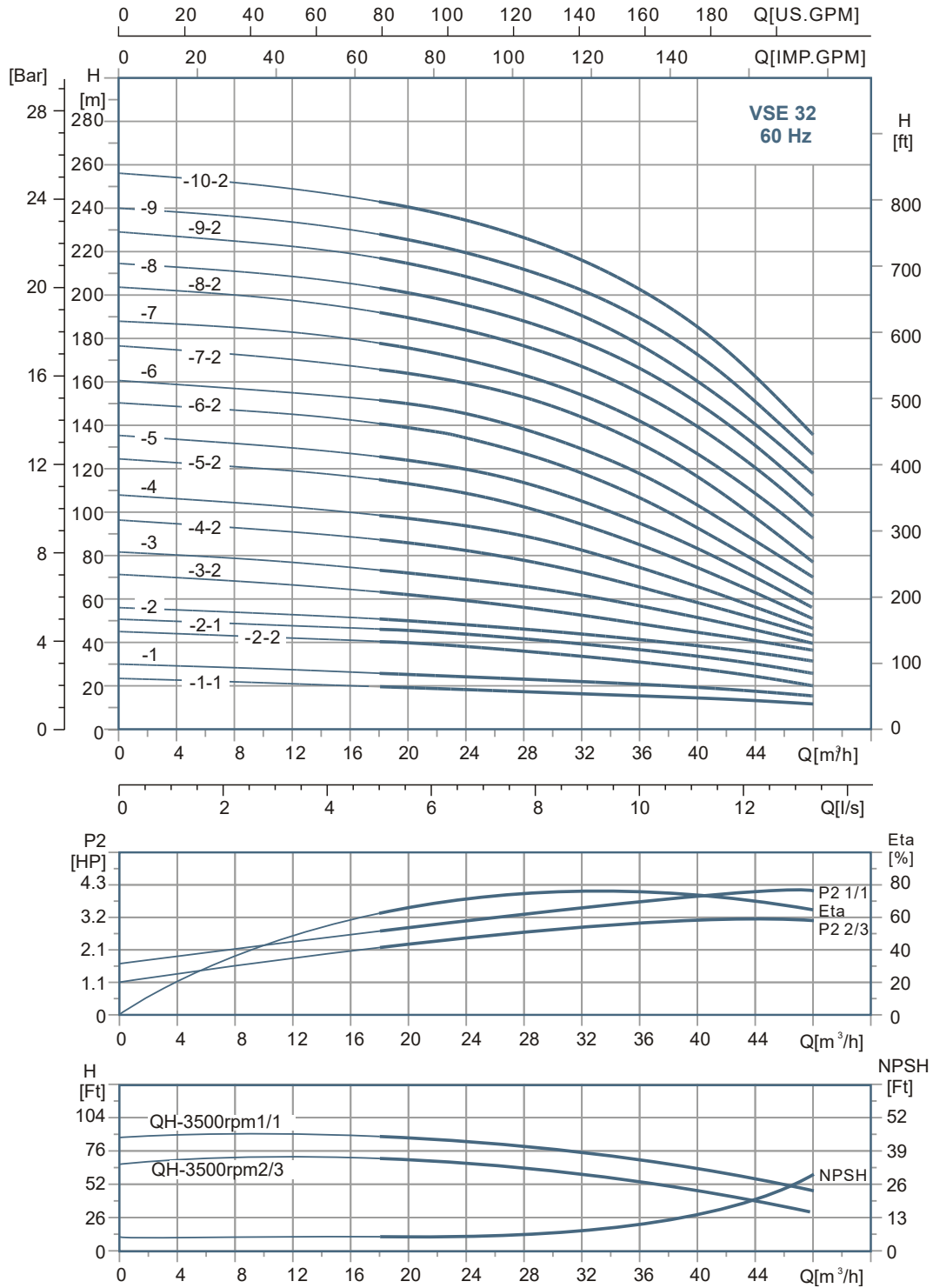
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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-22 (7/8")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 32-1-1-30   | 1G0677    | 1             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-1-1-40   | 1G0678    | 1             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-2-2-75   | 1G0679    | 2             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-2-1-75   | 1G0680    | 2             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-2-100    | 1G0681    | 2             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-2-100    | 1G0450    | 2             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-3-2-150  | 1G0682    | 3             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-3-150    | 1G0157    | 3             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-4-2-150  | 1G0158    | 4             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-4-2-150  | 1G0683    | 4             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32 5-2-200  | 1G0175    | 5             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-5-250    | 1G0684    | 5             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-6-2-250  | 1G0685    | 6             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-6-250    | 1G0182    | 6             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-7-2-300  | 1G0686    | 7             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-7-300    | 1G0183    | 7             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-8-2-400  | 1G0687    | 8             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-8-400    | 1G0688    | 8             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-9-2-400  | 1G0689    | 9             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-9-400    | 1G0184    | 9             | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |
| VSE 32-10-2-400 | 1G0198    | 10            | 2 1/2"                              | 2 1/2"                    | 4 1/2"     |

| Motor Features |             |                |
|----------------|-------------|----------------|
| Drive          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 3              | 3           | 230/460        |
| 4              | 3           | 230/460        |
| 7.5            | 3           | 230/460        |
| 7.5            | 3           | 230/460        |
| 10             | 3           | 230/380/460    |
| 10             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 20             | 3           | 230/380/460    |
| 25             | 3           | 230/380/460    |
| 25             | 3           | 230/380/460    |
| 25             | 3           | 230/380/460    |
| 30             | 3           | 230/380/460    |
| 30             | 3           | 230/380/460    |
| 40             | 3           | 230/380/460    |
| 40             | 3           | 230/380/460    |
| 40             | 3           | 230/380/460    |
| 40             | 3           | 230/380/460    |
| 40             | 3           | 230/380/460    |



2 Poles (3450 rpm)



**VSE Line**  
Performance Curve  
VSE 45

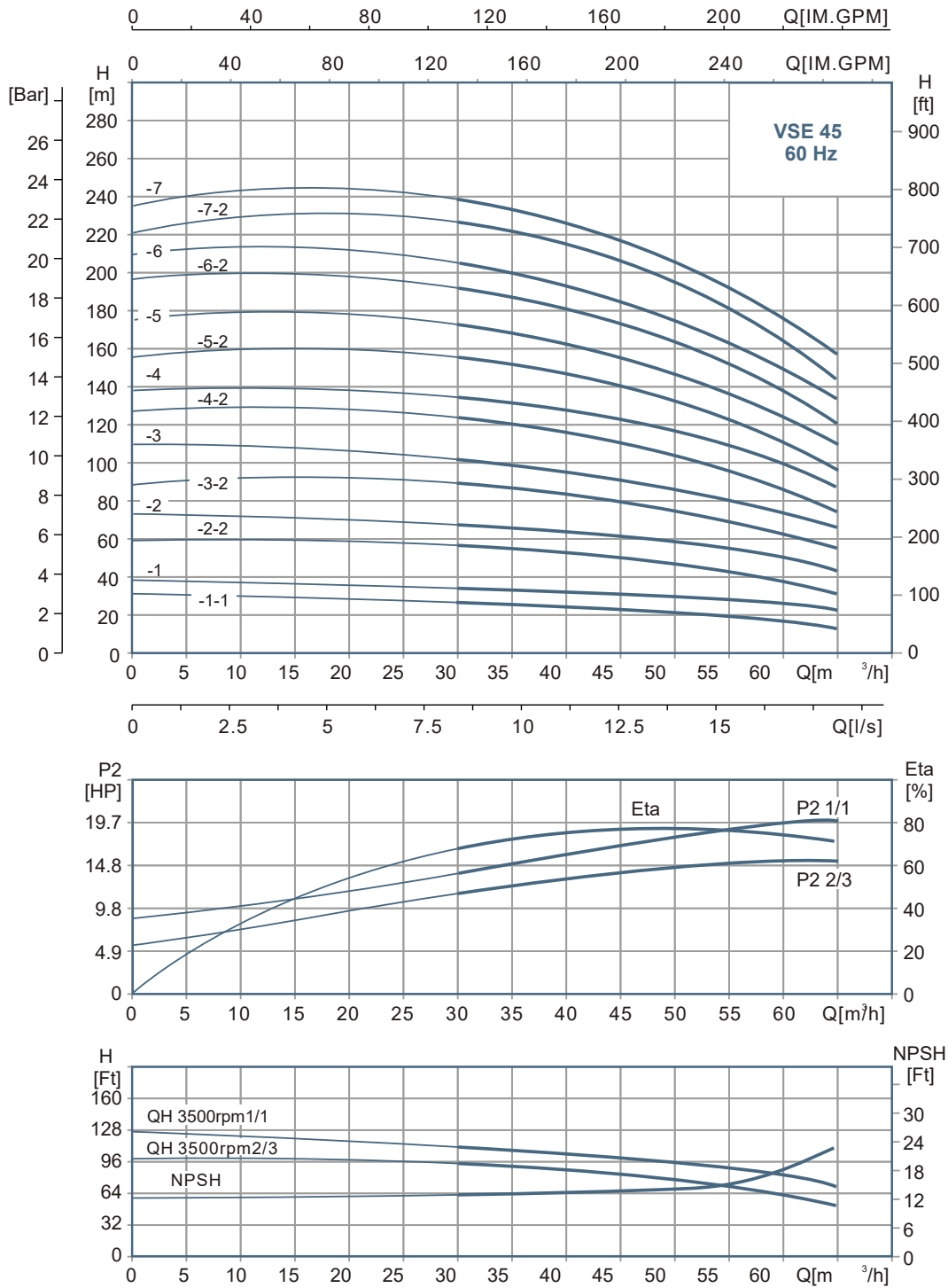


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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-22 (7/8")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 45-1-75     | 1G0659    | 1             | 3"                                  | 3"                        | 5"         |
| VSE 45-1-100    | 1G0660    | 1             | 3"                                  | 3"                        | 5"         |
| VSE 45-2-2-150  | 1G0661    | 2             | 3"                                  | 3"                        | 5"         |
| VSE 45-2-200    | 1G0185    | 2             | 3"                                  | 3"                        | 5"         |
| VSE 45-3-2-250  | 1G0662    | 3             | 3"                                  | 3"                        | 5"         |
| VSE 45 3-250    | 1G0176    | 3             | 3"                                  | 3"                        | 5"         |
| VSE 45-4-2-300  | 1G0187    | 4             | 3"                                  | 3"                        | 5"         |
| VSE 45-4-2-300  | 1G0663    | 4             | 3"                                  | 3"                        | 5"         |
| VSE 45-5-2-400  | 1G0664    | 5             | 3"                                  | 3"                        | 5"         |
| VSE 45-5-400    | 1G0188    | 5             | 3"                                  | 3"                        | 5"         |
| VSE 45-6-2-500  | 1G0665    | 6             | 3"                                  | 3"                        | 5"         |
| VSE 45-6-500    | 1G0451    | 6             | 3"                                  | 3"                        | 5"         |
| VSE 45-7-600    | 1G0667    | 7             | 3"                                  | 3"                        | 5"         |
| VSE 45-7-2-600  | 1G0199    | 7             | 3"                                  | 3"                        | 5"         |

| Motor Features |             |                |
|----------------|-------------|----------------|
| Drive          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 7.5            | 3           | 230/460        |
| 10             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 20             | 3           | 230/380/460    |
| 25             | 3           | 230/380/460    |
| 25             | 3           | 230/380/460    |
| 30             | 3           | 230/380/460    |
| 30             | 3           | 230/380/460    |
| 40             | 3           | 230/380/460    |
| 40             | 3           | 230/380/460    |
| 50             | 3           | 230/380/460    |
| 50             | 3           | 230/380/460    |
| 60             | 3           | 230/380/460    |
| 60             | 3           | 230/380/460    |

2 Poles (3450 rpm)



**VSE Line**  
Performance Curve  
VSE 64

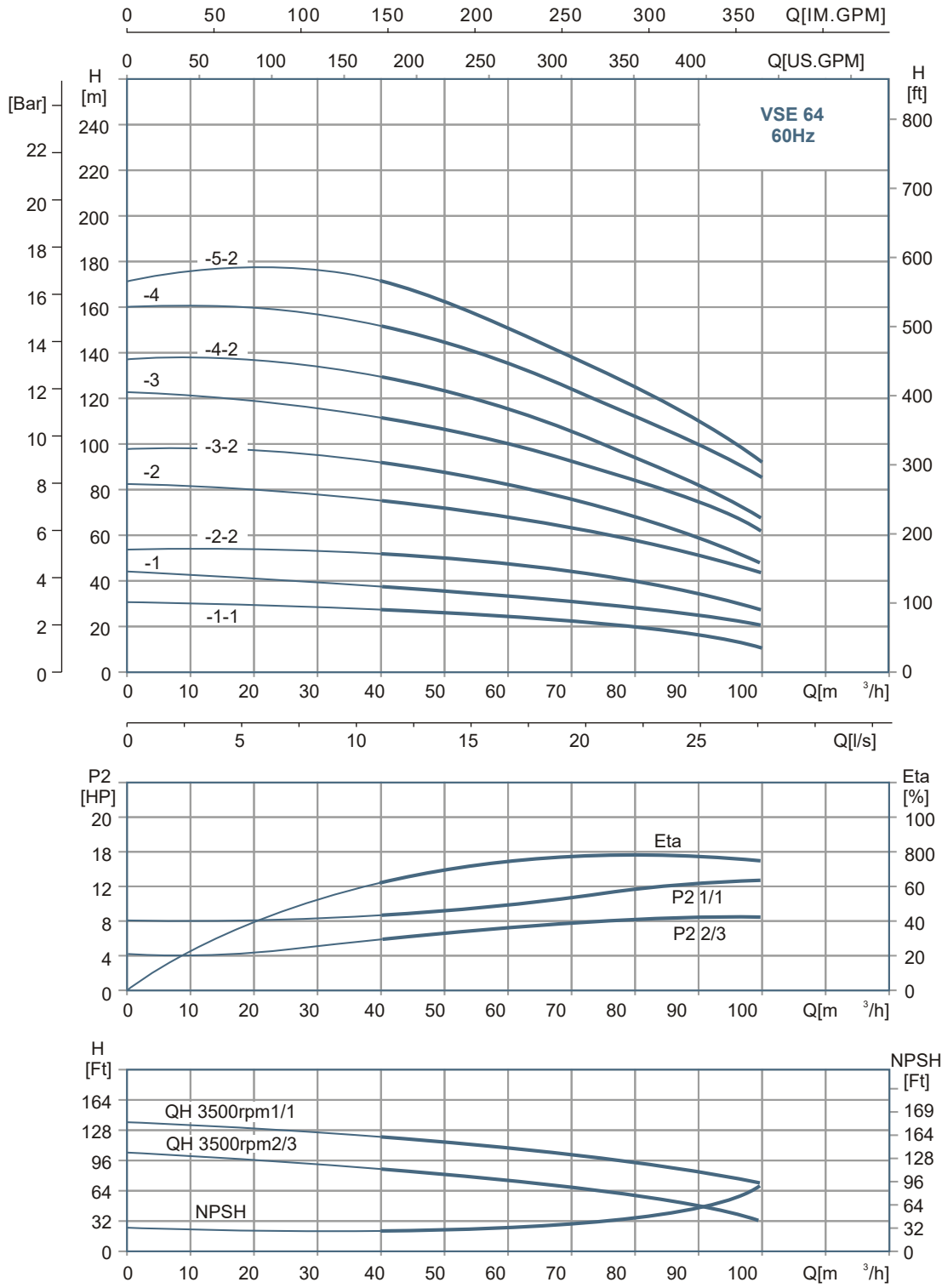


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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-22 (7/8")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 64-1-1-100  | 1G0747    | 1             | 4"                                  | 4"                        | 5"         |
| VSE 64-1-150    | 1G0748    | 1             | 4"                                  | 4"                        | 5"         |
| VSE 64-2-2-200  | 1G0189    | 2             | 4"                                  | 4"                        | 5"         |
| VSE 64-2-300    | 1G0494    | 2             | 4"                                  | 4"                        | 5"         |
| VSE 64-3-2-300  | 1G0190    | 3             | 4"                                  | 4"                        | 5"         |
| VSE 64-3-400    | 1G0191    | 3             | 4"                                  | 4"                        | 5"         |
| VSE 64-4-2-500  | 1G0750    | 4             | 4"                                  | 4"                        | 5"         |
| VSE 64-4-600    | 1G0751    | 4             | 4"                                  | 4"                        | 5"         |
| VSE 64-5-2-600  | 1G0752    | 5             | 4"                                  | 4"                        | 5"         |

| Motor Features |             |                |
|----------------|-------------|----------------|
| Drive          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 10             | 3           | 230/380/460    |
| 15             | 3           | 230/380/460    |
| 20             | 3           | 230/380/460    |
| 30             | 3           | 230/380/460    |
| 30             | 3           | 230/380/460    |
| 40             | 3           | 230/380/460    |
| 50             | 3           | 230/380/460    |
| 60             | 3           | 230/380/460    |
| 60             | 3           | 230/380/460    |

2 Poles (3450 rpm)



**VSE Line**  
Performance Curve  
VSE 90

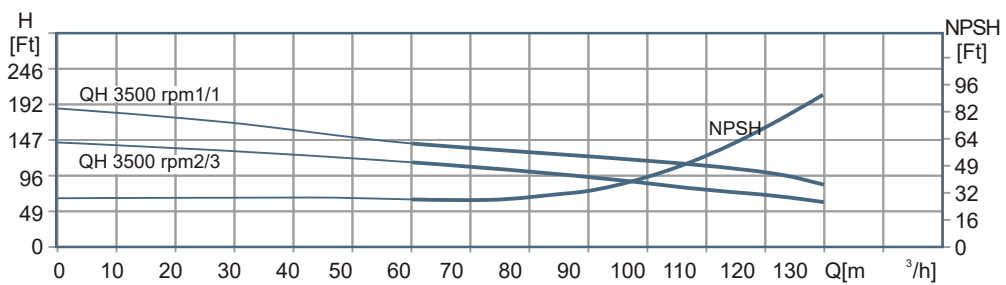
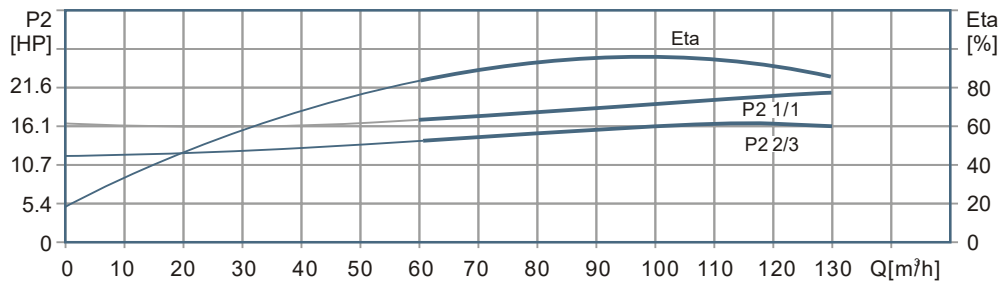
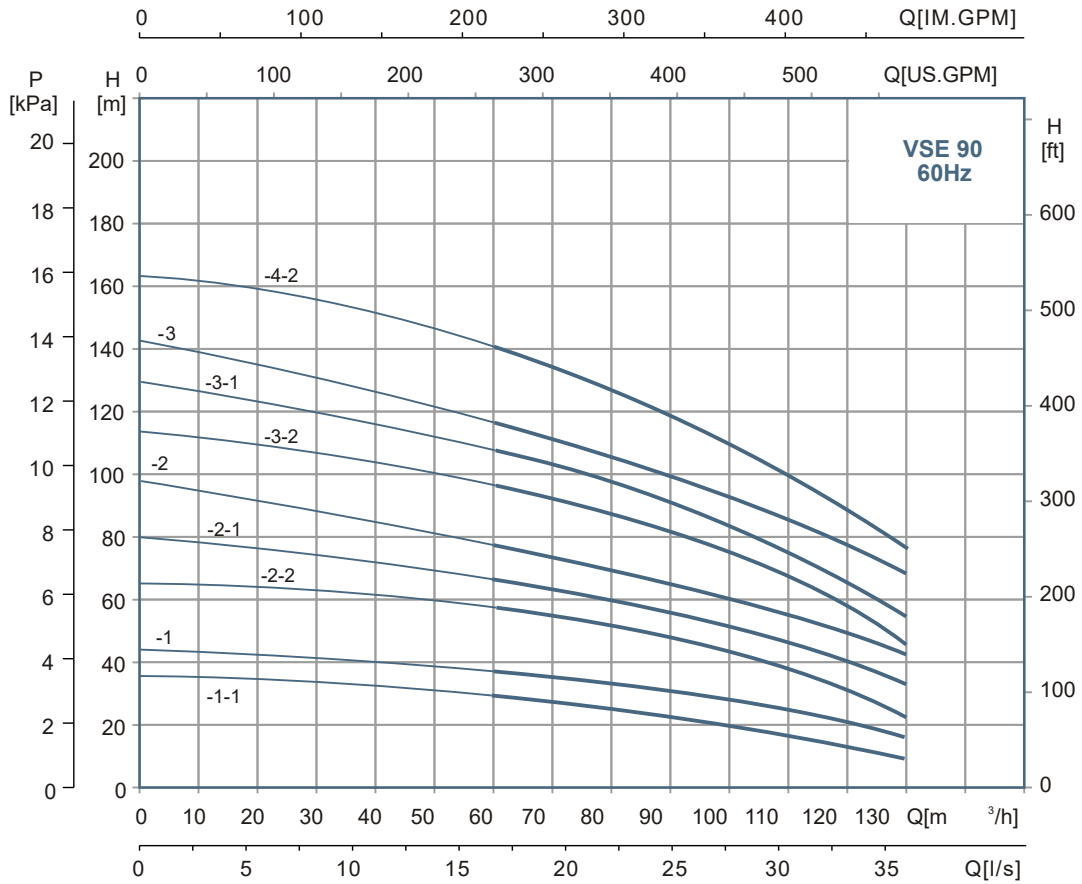


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| Pump Features   |           |               |                                     |                           |            |
|-----------------|-----------|---------------|-------------------------------------|---------------------------|------------|
| Pump Type       |           | Design        |                                     | Impeller                  |            |
| In Line         |           | Close Coupled |                                     | Enclosed, Stainless Steel |            |
| Mechanical Seal |           |               | Fluid Temperature Range             |                           |            |
| NJK-22 (7/8")   |           |               | -4° F to 219.2° F (-20° C a 120° C) |                           |            |
| Model           | Reference | Stages        | Ø Suction                           | Ø Discharge               | Ø Impeller |
| VSE 90-1-1-150  | 1G0668    | 1             | 4"                                  | 4"                        | 5 3/4"     |
| VSE 90-1-200    | 1G0669    | 1             | 4"                                  | 4"                        | 5 3/4"     |
| VSE 90-2-2-250  | 1G0670    | 2             | 4"                                  | 4"                        | 5 3/4"     |
| VSE 90-2-1-300  | 1G0671    | 2             | 4"                                  | 4"                        | 5 3/4"     |
| VSE 90-2-400    | 1G0672    | 2             | 4"                                  | 4"                        | 5 3/4"     |
| VSE 90-3-2-500  | 1G0673    | 3             | 4"                                  | 4"                        | 5 3/4"     |
| VSE 90-3-1-500  | 1G0674    | 3             | 4"                                  | 4"                        | 5 3/4"     |
| VSE 90-3-600    | 1G0675    | 3             | 4"                                  | 4"                        | 5 3/4"     |
| VSE 90-4-2-600  | 1G0676    | 4             | 4"                                  | 4"                        | 5 3/4"     |

| Motor Features |             |                |
|----------------|-------------|----------------|
| Drive          | Speed (rpm) | Frequency (Hz) |
| Electric       | 3500        | 60             |
| Power (HP)     | Phase       | Voltage (V)    |
| 15             | 3           | 230/460        |
| 20             | 3           | 230/460        |
| 25             | 3           | 230/460        |
| 30             | 3           | 230/460        |
| 40             | 3           | 230/460        |
| 50             | 3           | 230/460        |
| 50             | 3           | 230/460        |
| 60             | 3           | 230/460        |
| 60             | 3           | 230/460        |

2 Poles (3450 rpm)



### Pipe Connection

Here are the dimensions of the flanges.

| Counter Flange | Pump Model                       | Description | Rated Pressure | Pipe Work Connection |
|----------------|----------------------------------|-------------|----------------|----------------------|
|                | VSE 1<br>VSE 3<br>VSE 4<br>VSE 5 | Threaded    | ANSI Class 150 | 1-1/4" NPT           |

| Counter Flange | Pump Model | Description | Rated Pressure | Pipe Work Connection |
|----------------|------------|-------------|----------------|----------------------|
|                | VSE 10     | Threaded    | ANSI Class 150 | 1-1/2" NPT           |

| Counter Flange | Pump Model       | Description | Rated Pressure | Pipe Work Connection |
|----------------|------------------|-------------|----------------|----------------------|
|                | VSE 15<br>VSE 20 | Threaded    | ANSI Class 150 | 2" NPT               |

**Remarks:** The above accessories are not necessary for pumps, there will be extra charge for them if needed.

Technical specifications are subject to change without prior notice.



| Counter Flange | Pump Model | Description | Rated Pressure | Pipe Work Connection |
|----------------|------------|-------------|----------------|----------------------|
|                | VSE 32     | Threaded    | ANSI Class 150 | 2-1/2" NPT           |

| Counter Flange | Pump Model | Description | Rated Pressure | Pipe Work Connection |
|----------------|------------|-------------|----------------|----------------------|
|                | VSE 45     | Threaded    | ANSI Class 150 | 3" NPT               |

| Counter Flange | Pump Model       | Description | Rated Pressure | Pipe Work Connection |
|----------------|------------------|-------------|----------------|----------------------|
|                | VSE 64<br>VSE 90 | Threaded    | ANSI Class 150 | 4" NPT               |

**Remarks:** The above accessories are not necessary for pumps, there will be extra charge for them if needed.  
 Technical specifications are subject to change without prior notice.

### Pipe Connection

Various sets of flanges and couplings are available for the VSE series. The set consists of a flange, a gasket, bolts, and nuts. The following table shows the dimensions of the threaded flange depending on the size of the pump.

| Model                                     | Flange    |             | Threaded Counterflange |             |
|---|-----------|-------------|------------------------|-------------|
|   | Ø Suction | Ø Discharge | Ø Suction              | Ø Discharge |
| VSE 1<br>VSE 2<br>VSE 3<br>VSE 4<br>VSE 5 | 1-1/4"    | 1-1/4"      | 1-1/4" NPT             | 1" NPT      |
| VSE 10                                    | 1-1/2"    |             | 2" NPT                 | 1-1/2" NPT  |
| VSE 15<br>VSE 20                          | 2"        |             | 2-1/2" NPT             | 2" NPT      |
| VSE 32                                    | 2-1/2"    |             | 3" NPT                 |             |
| VSE 45                                    | 3"        |             | 3" NPT                 |             |
| VSE 64<br>VSE 90                          | 4"        |             | 4" NPT                 |             |



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