WDM® 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

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.

WDM® PUMPS

www.wdmpumps.com

Other factories:

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

www.wdmpumps.com

INDEX

VSE

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:

VSE 45 4 - 2 - 300

Cubic Meters per Hour

Pump Family
V = Vertical multistage centrifugal pump

Material
S = Pump Casing in Cast Iron
SS= Pump Casing in stainless steel
Impeller: Stainless steel

Driver type
E = Electric Motor

Flow
m^3/h = Cubic Meters per Hour
m^3/h = 4,4 US GPM
At the point of best efficiency

Number of Stages.

Number of Impellers with special trimming
“Applies only to specific references with three-phase motors”

Power (HP).
Multiplied by ten
300 = 30 HP

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.

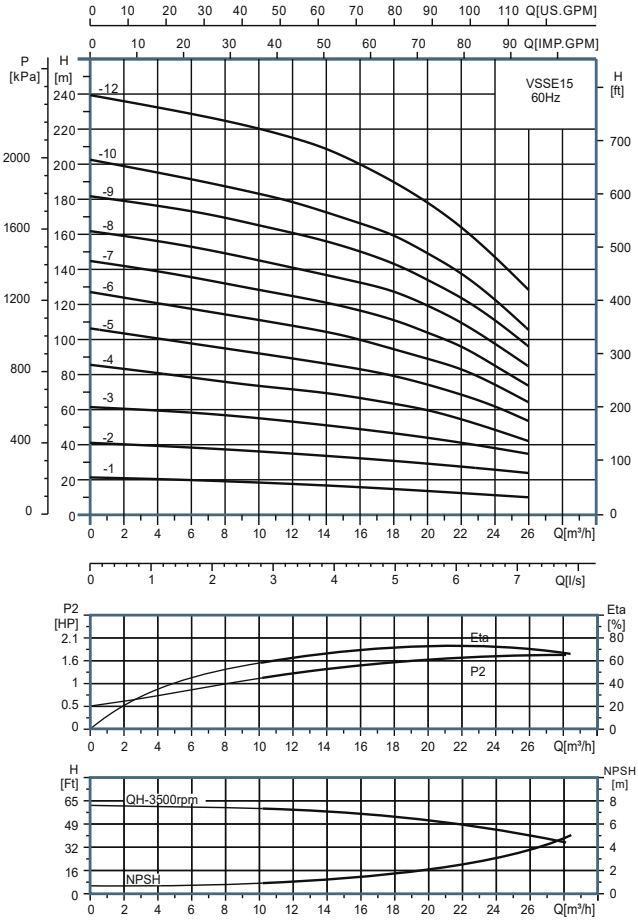


Fig. 1 Example of Curve Chart

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.
- 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.

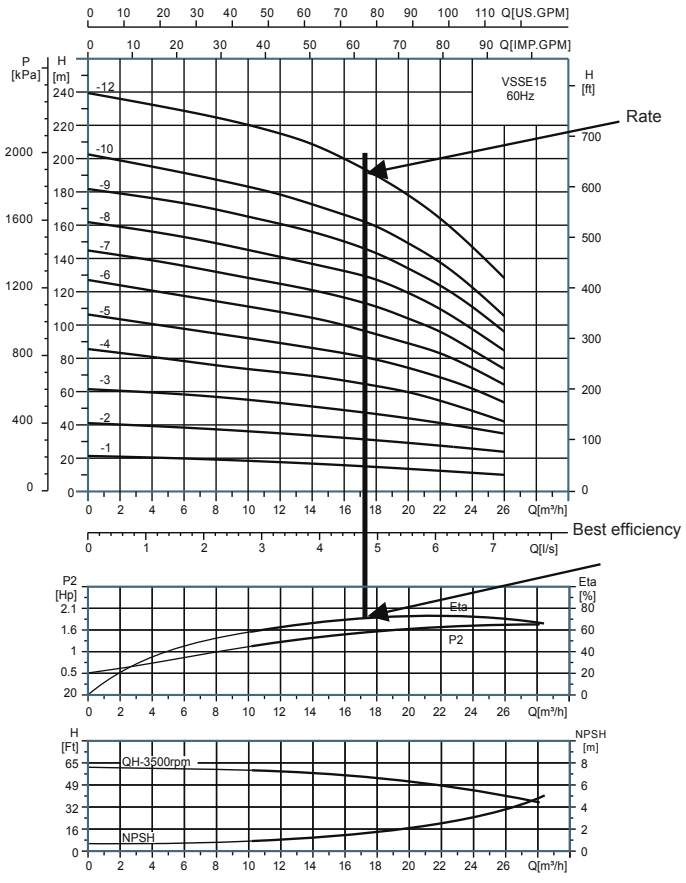


Fig.6 Example of Duty Point

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.

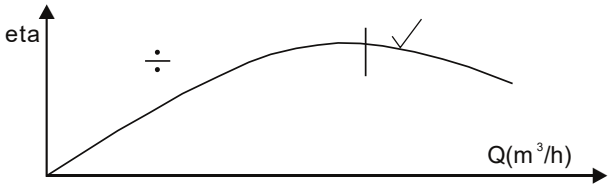


Fig. 2 Best Efficiency

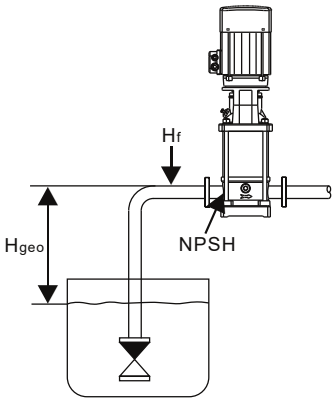


Fig. 3 Dimensional Data

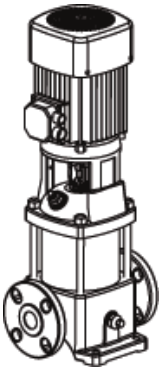


Fig. 4 VSE Pump

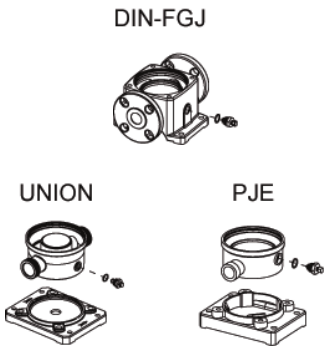


Fig. 5 Pump Connections

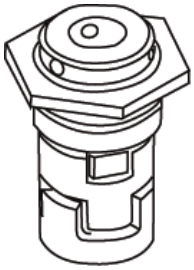


Fig. 6 Pump Connections

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.

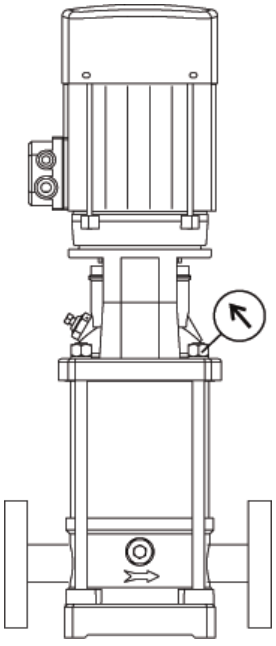
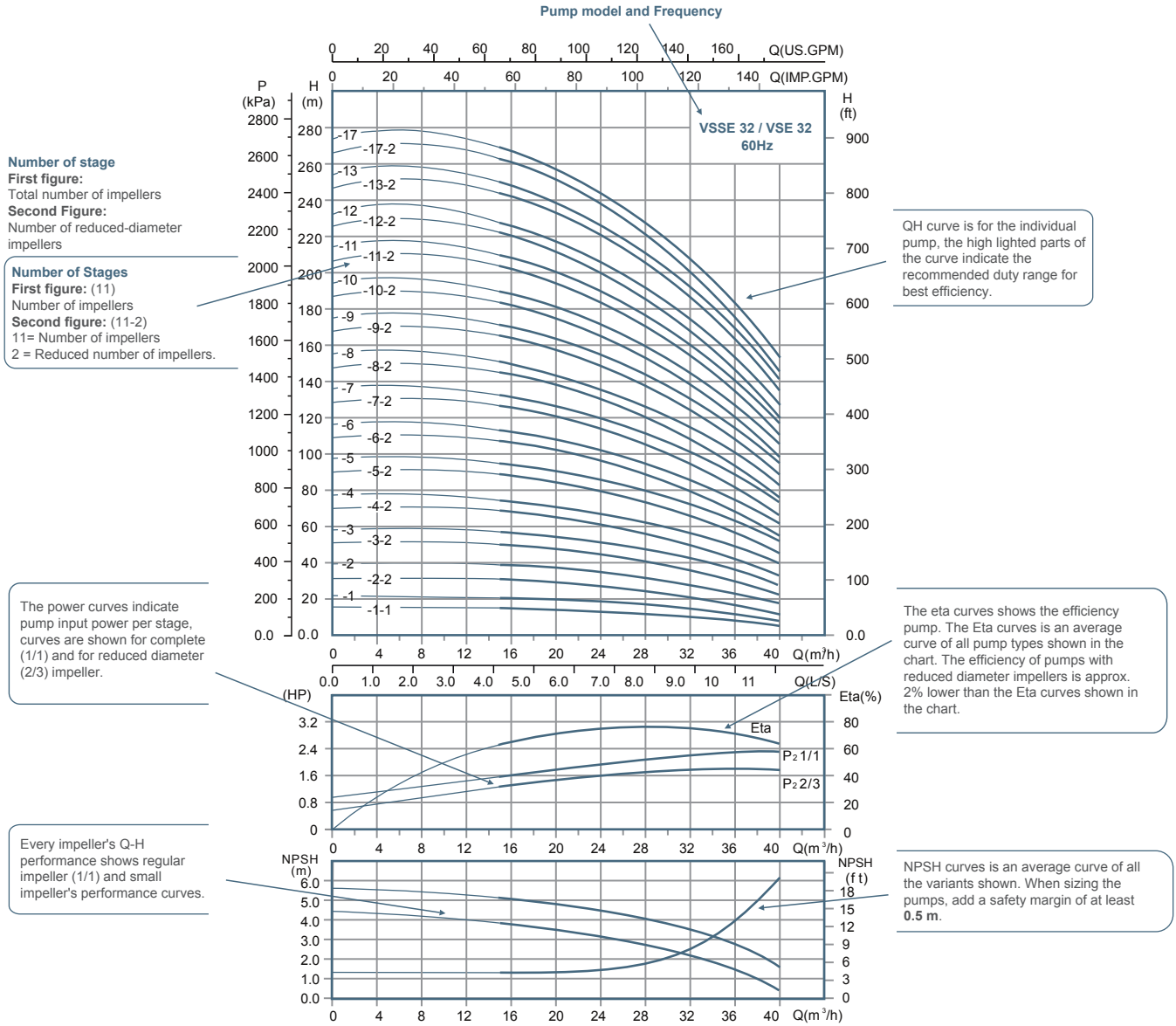


Fig. 7 Inlet pressure
and operating pressure

How to read the curve chart

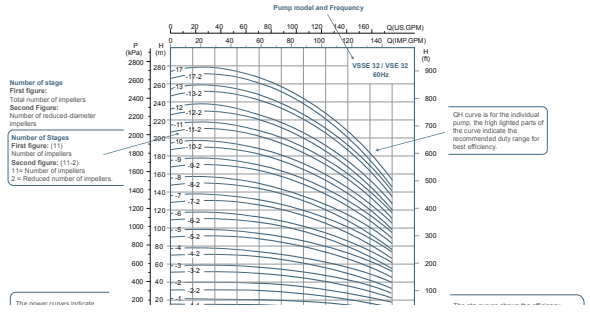


Explanation of Performance Curves

Guidelines to performance curves the 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 =1mm/2s (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-¹, 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.

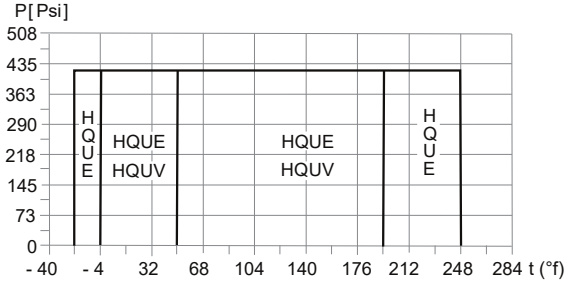
Maximum Operating Pressure and Temperature Range

	DIN-FGJ / UNION / PJE	
		
	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



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 in dividually 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

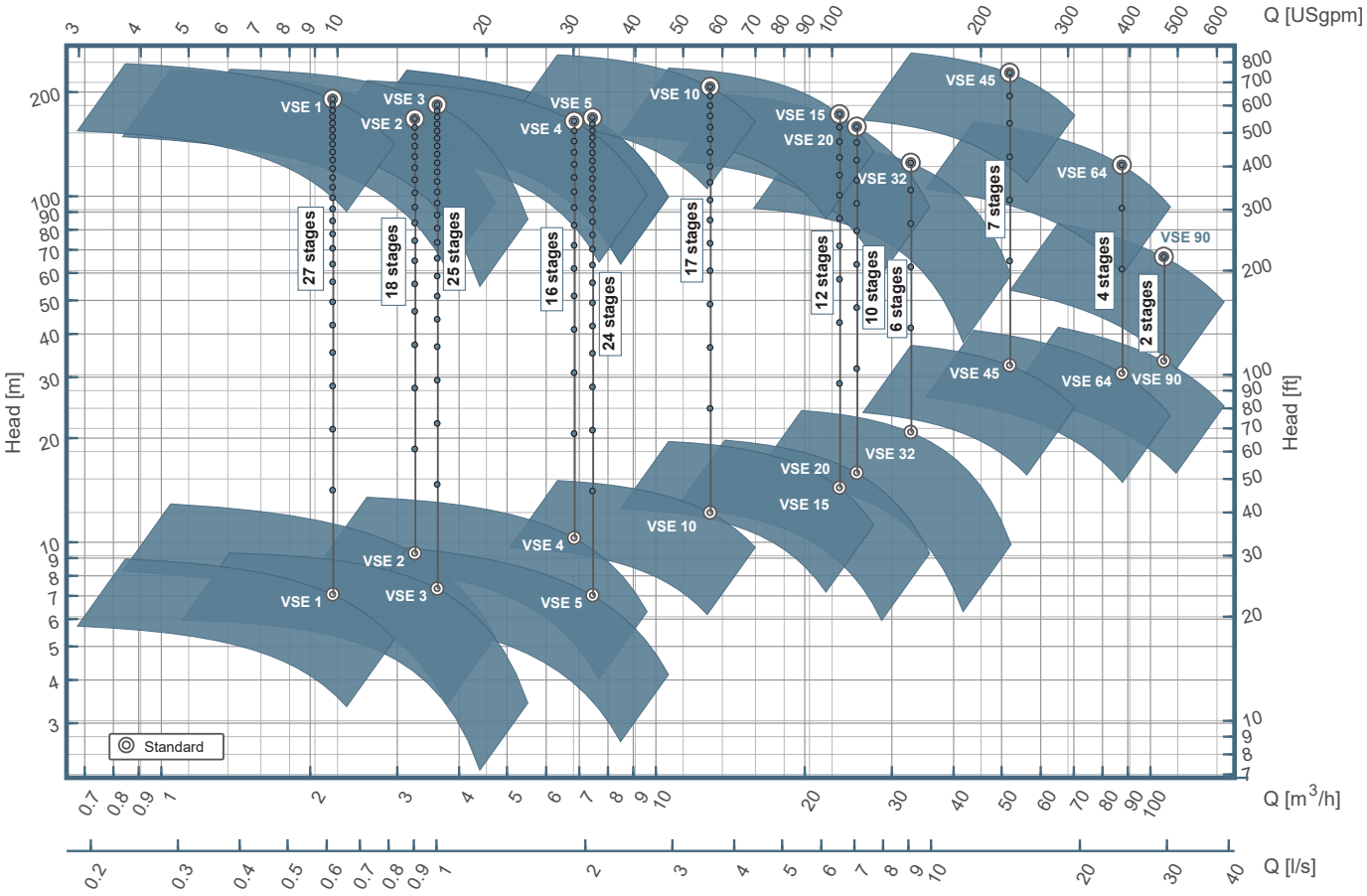
Example 2:

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

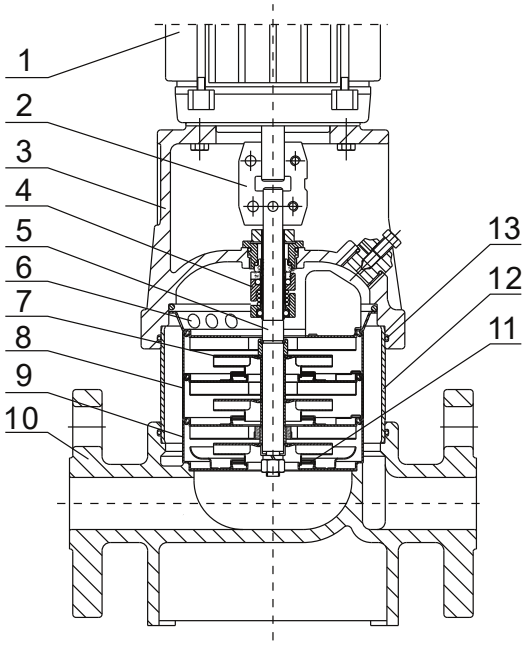
2 poles (3600 rpm)



Sectional
VSE Line

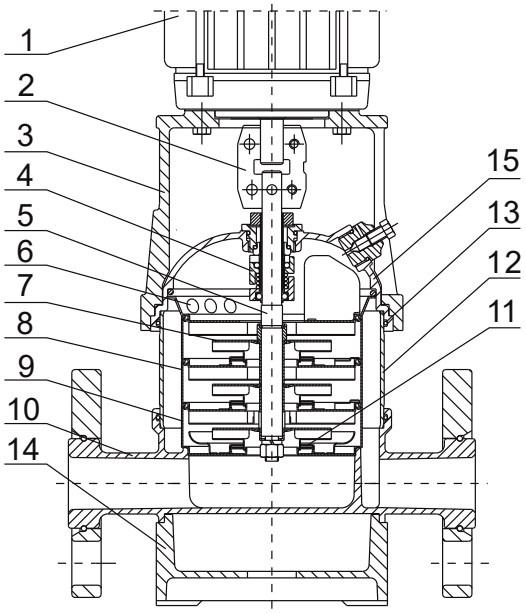
1-2-3-4-5

VSE 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		

VSSE PUMP



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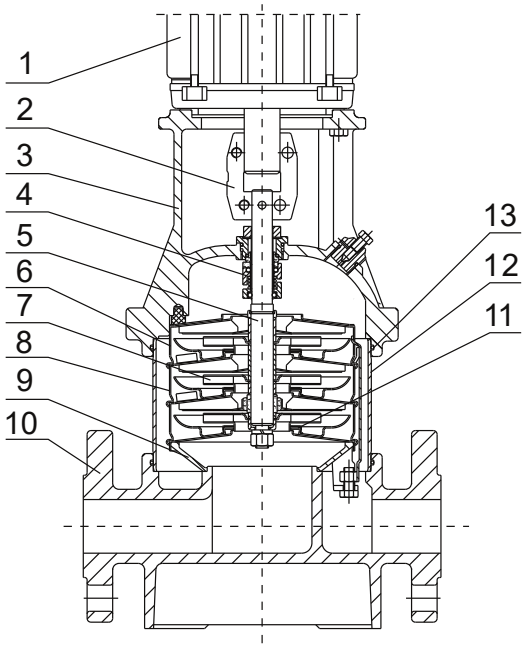
1	Motor			
2	Shaft Connector			
3	Pump Head	Cast Iron	EN-JL1030	ASTM25B
4	Mechanical Seal	Standard Silicon / Carbon / Viton		
5	Shaft	S.S	1,4057	AISI431
6	Outlet	S.S	1,4301	AISI304
7	Impeller	S.S	1,4301	AISI304
8	Diffuser	S.S	1,4301	AISI304
9	Inlet	S.S	1,4301	AISI304
10	Pump Body	S.S	1,4301	AISI304
11	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



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7	Impeller	S.S	1,4301	AISI304
8	Diffuser	S.S	1,4301	AISI304
9	Settled Cover	S.S	1,4301	AISI304
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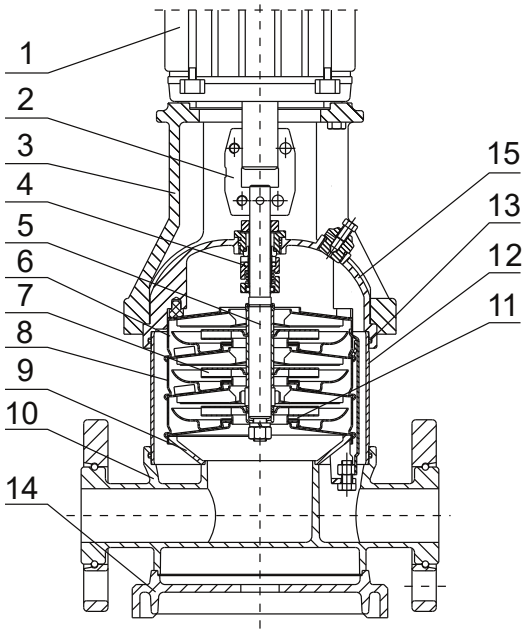
11	Spring Washer	PTFE		
12	Outer Sleeve	S.S	1,4301	AISI304
13	O-Ring	EPDM/FKM		

VSSE PUMP



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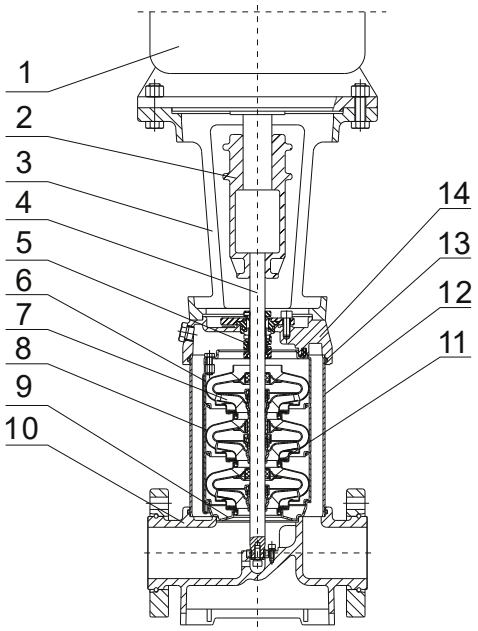
8	Diffuser	S.S	1,4301	AISI304
9	Settled Cover	S.S	1,4301	AISI304
10	Pump Body	S.S	1,4301	AISI304
11	Spring Washer	PTFE		
12	Outer Sleeve	S.S	1,4301	AISI304
13	O-Ring	PDM/FKM		
14	Bottom Base	Cast Iron	EN-JL1030	ASTM25B
15	Pump Cover	S.S	1,4301	AISI304

VSE PUMP



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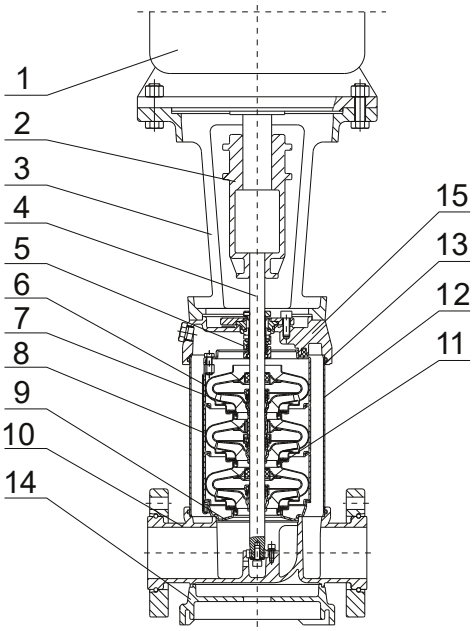
9	Inlet	S.S	1,4301	AISI304
10	Pump Body	Cast Iron	EN-JL1030	ASTM25B
11	Spring Washer	PTFE		
12	Outer Sleeve	S.S	1,4301	AISI304
13	O-Ring	EPDM/FKM		
14	Pump Cover	Cast Iron	EN-JL1030	ASTM25B

VSSE PUMP



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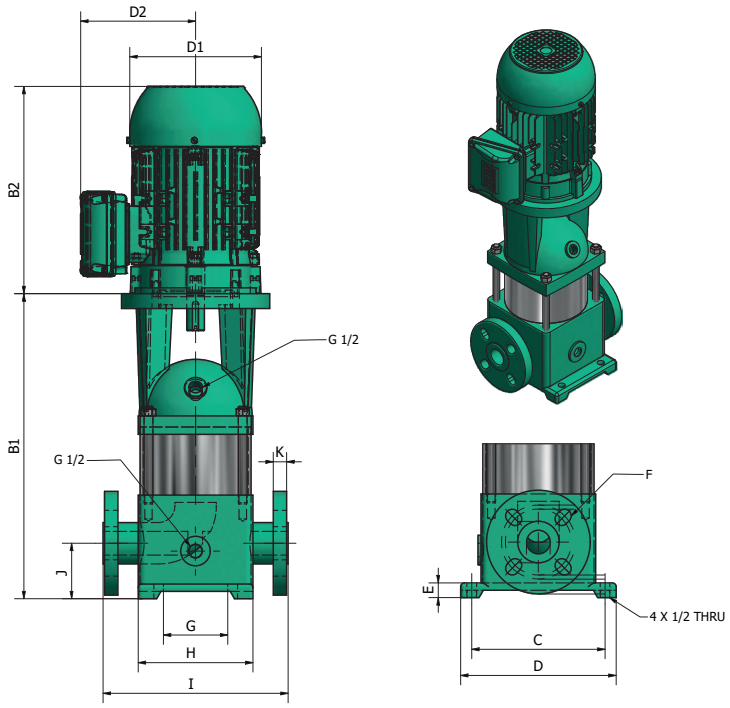
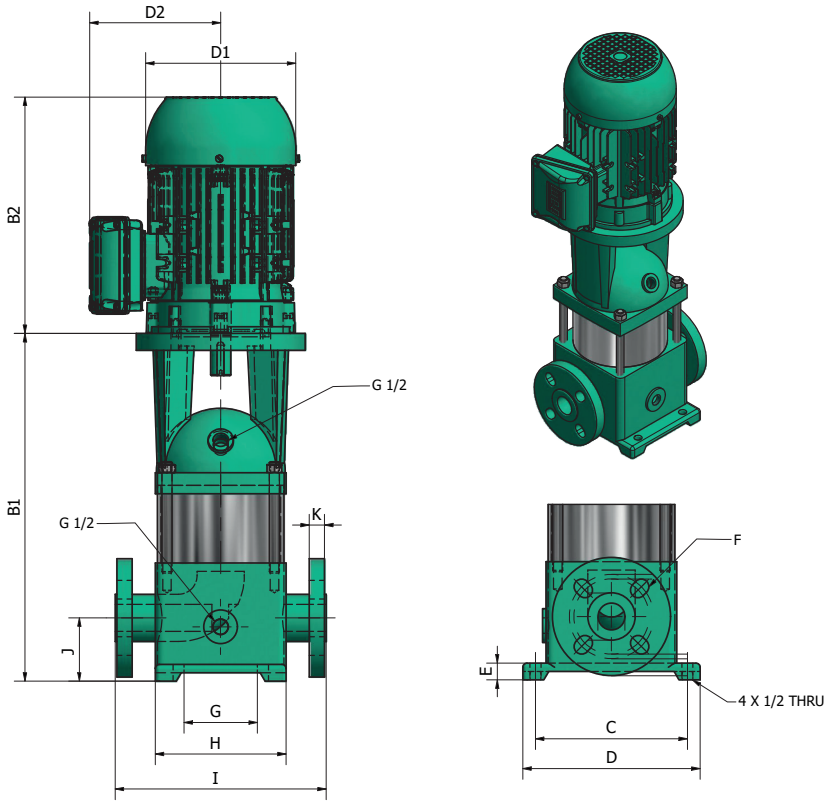
9	Inlet	S.S	1,4301	AISI304
10	Pump Body	S.S	1,4301	AISI304
11	Spring Washer	PTFE		
12	Outer Sleeve	S.S	1,4301	AISI304
13	O-Ring	EPDM/FKM		
14	Bottom Base	Cast Iron	EN-JL1030	ASTM25B
15	Cover	S.S	1,4301	AISI304



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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	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 5/6	3	3/5	110	1 1/4	1"

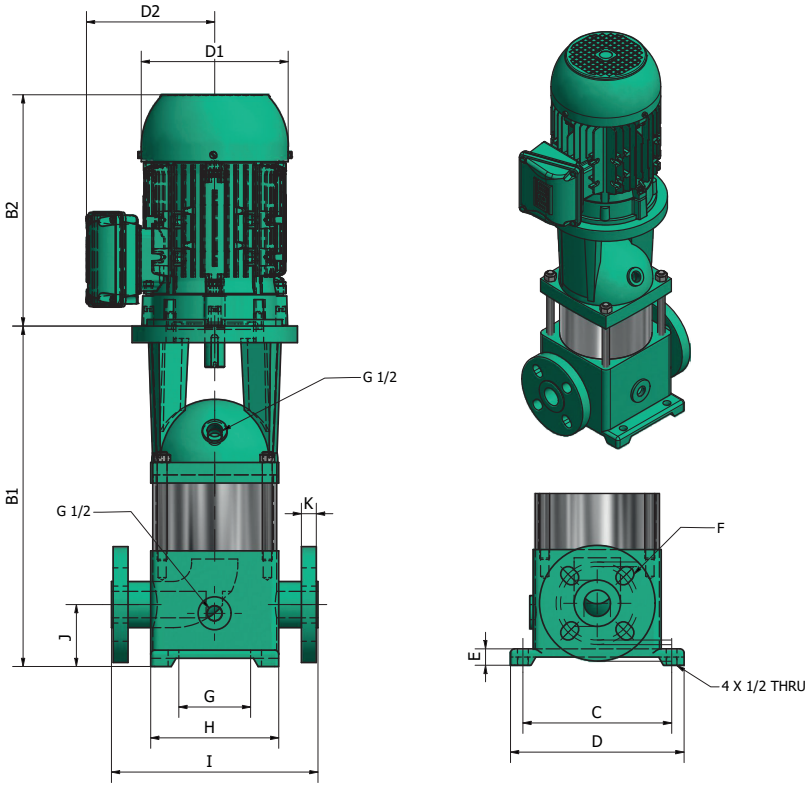
Note: ANSI B16.5 Flanges for dimensions see page 52-53.
Dimensions in inches.
Technical specifications are subject to change without prior notice.

Dimensional
VSE Line
VSE 2



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”

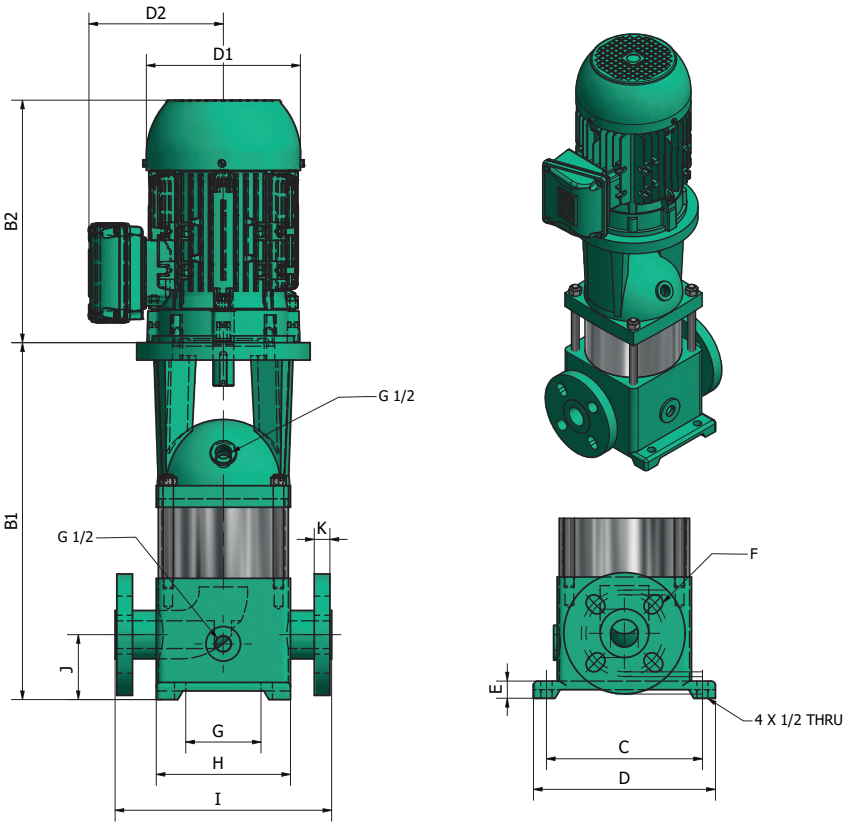
Nota: Bridas ANSI B16.5 para las dimensiones ver página 52-53



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"

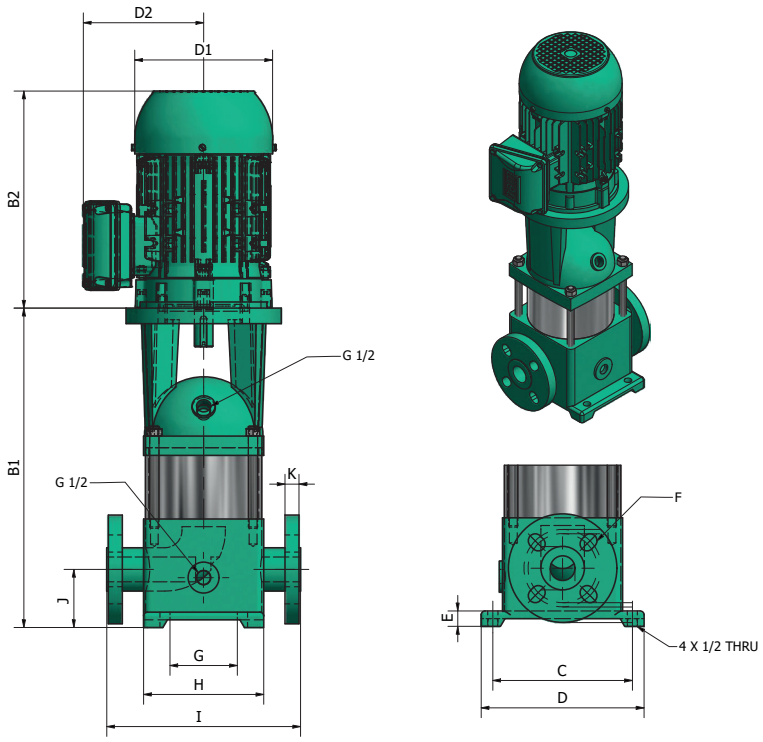
Note: ANSI B16.5 Flanges for dimensions see page 52-53.
Dimensions in inches.
Technical specifications are subject to change without prior notice.

Dimensional
VSE Line
VSE 4



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"

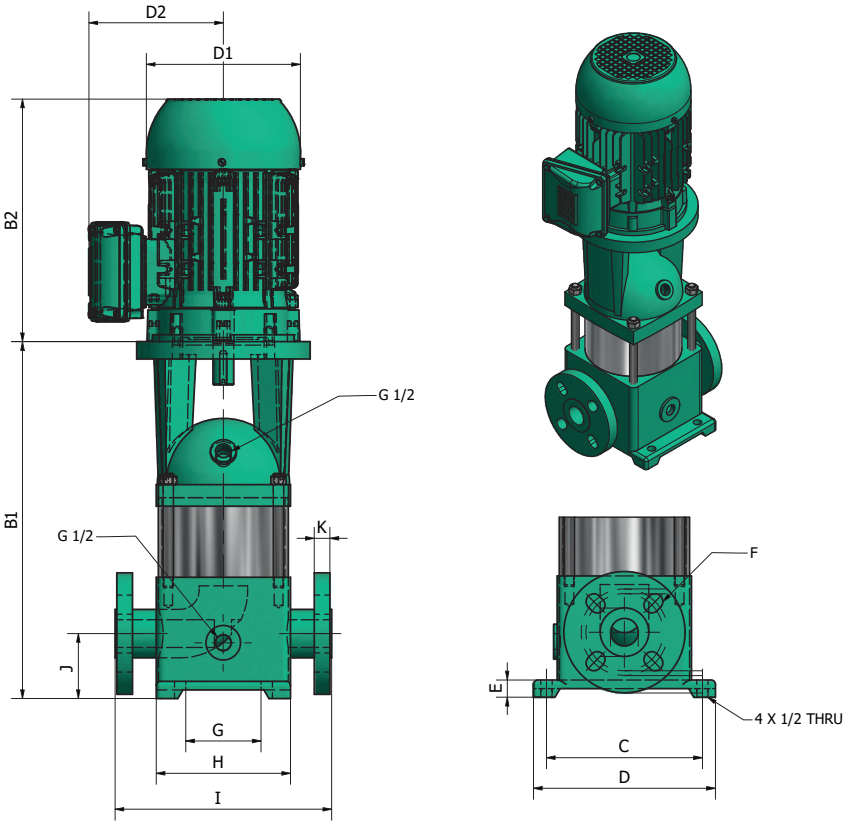
Note: ANSI B16.5 Flanges for dimensions see page 52-53.
Dimensions in inches.
Technical specifications are subject to change without prior notice.



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"

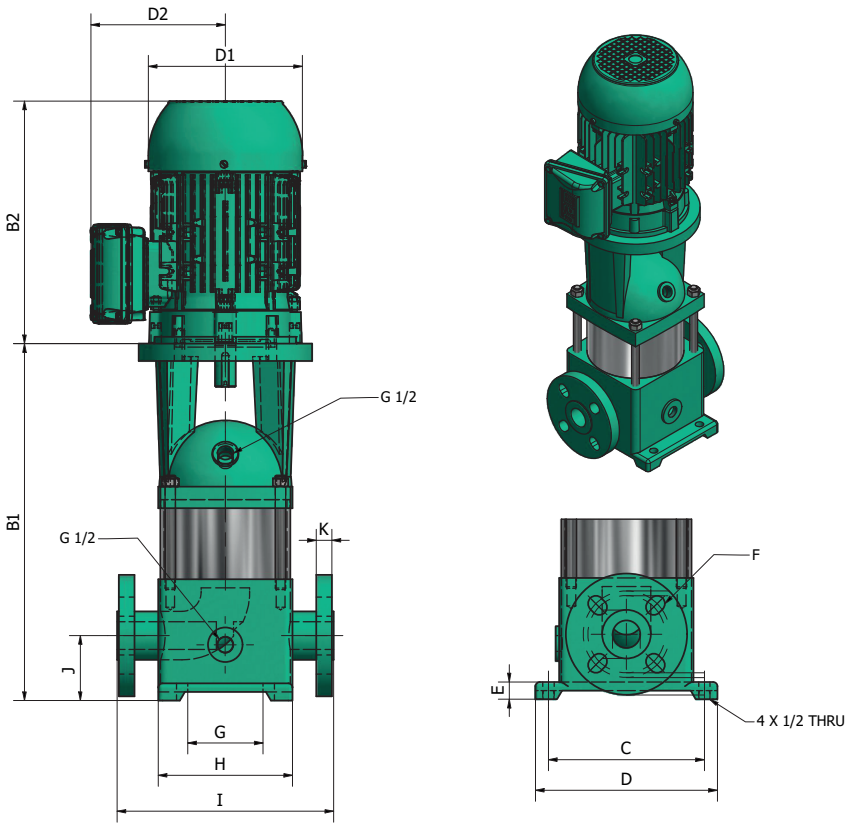
Note: ANSI B16.5 Flanges for dimensions see page 52-53.
Dimensions in inches.
Technical specifications are subject to change without prior notice.

Dimensional
VSE Line
VSE 10



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 17	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.
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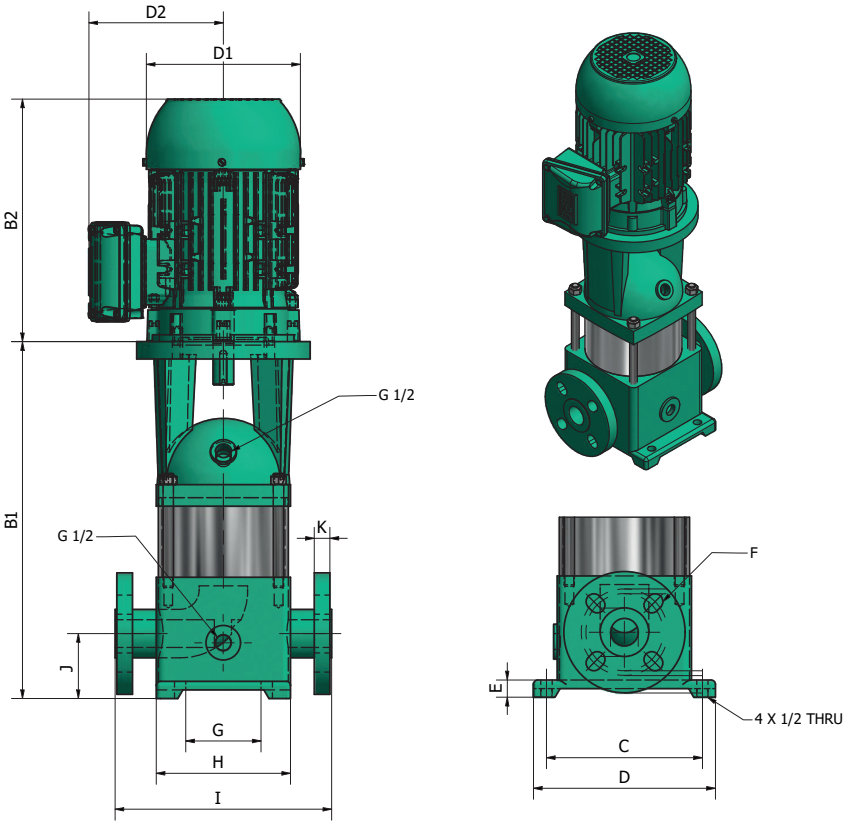
Dimensional
VSE Line
VSE 20



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.
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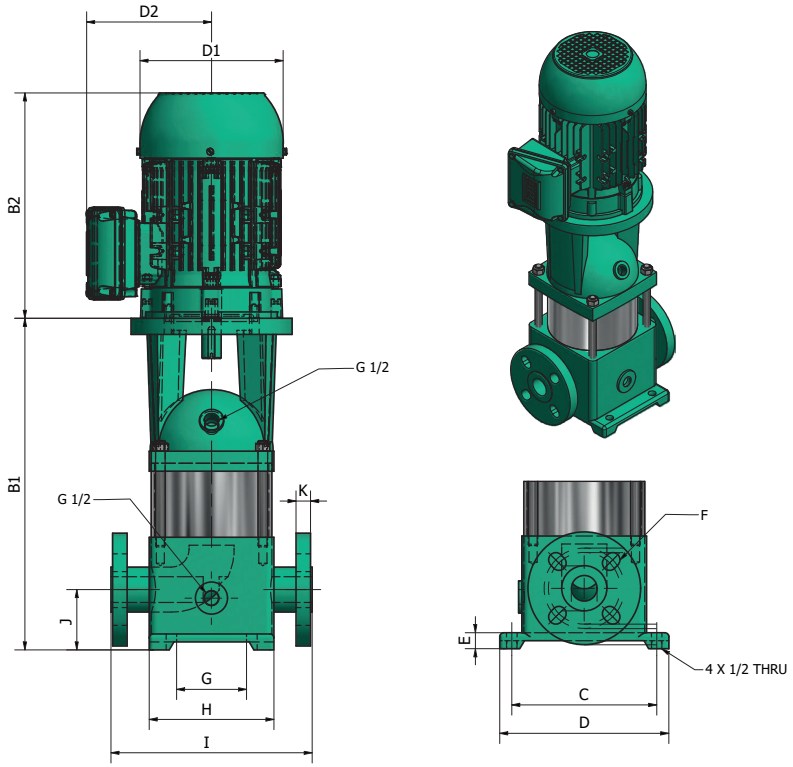
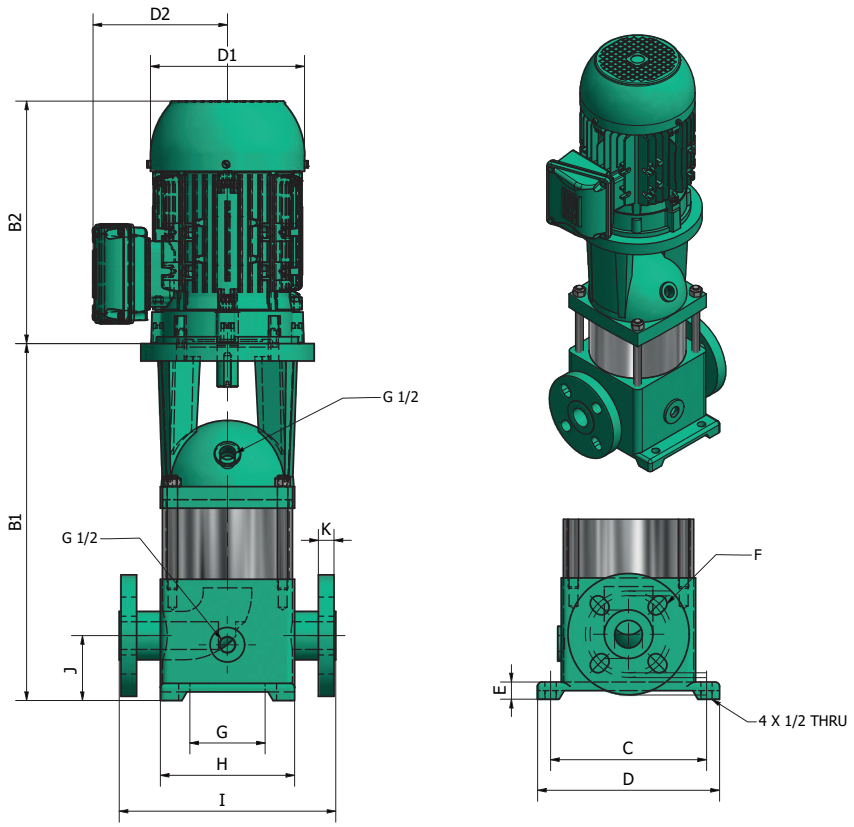


Model	Ref.	Size (in)														Weight (lb)	Suc (in)	Disc (in)
		B1	B2	B1+B2	D1	D2	C	D	E	F	G	H	I	J	K			
VSE 32-1-1-30	1G0677	18 3/4	10,8 / 11,5	29 1/2	7	4 5/8	9 4/9	11 3/4	1 2/9	3/4	6 2/3	8 6/7	12 3/5	4 1/7	4/5	176	2 1/2	2 1/2
VSE 32-1-40	1G0678	18 3/4	11 1/2	29 1/2	7	4 5/8	9 4/9	11 3/4	1 2/9	3/4	6 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 32-10-2-500	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
VSE 32-10-2-400	1G0690	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

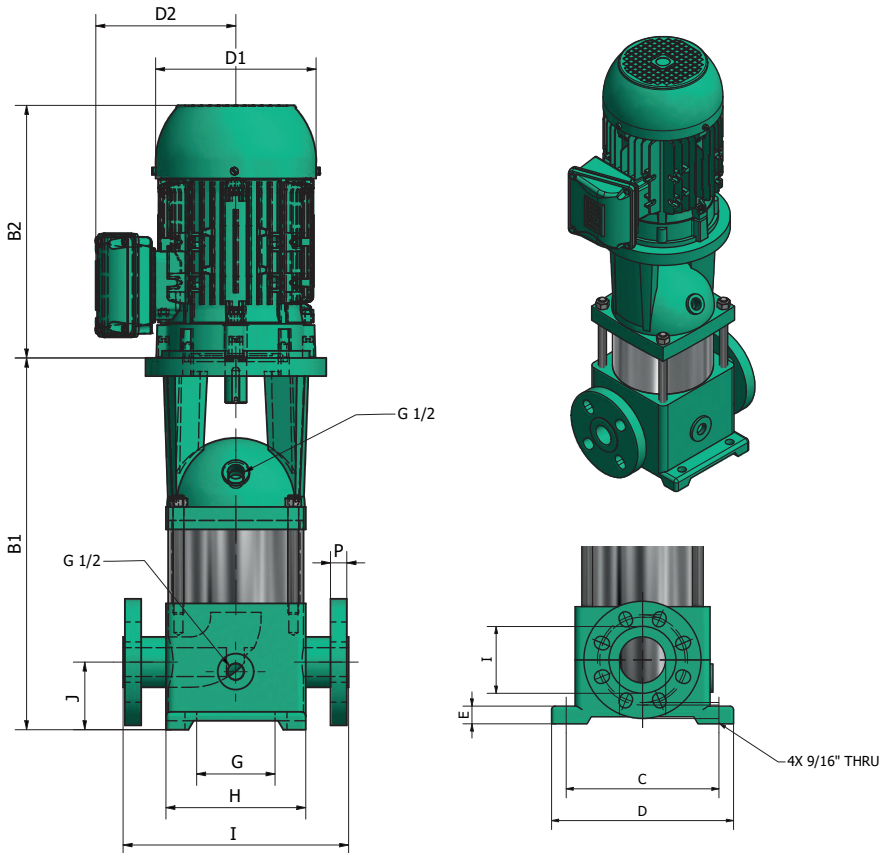
Note: ANSI B16.5 Flanges for dimensions see page 52-53.
Dimensions in inches.
Technical specifications are subject to change without prior notice.

Dimensional
VSE Line
VSE 45



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 45-2-2-150	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 45-3-2-250	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

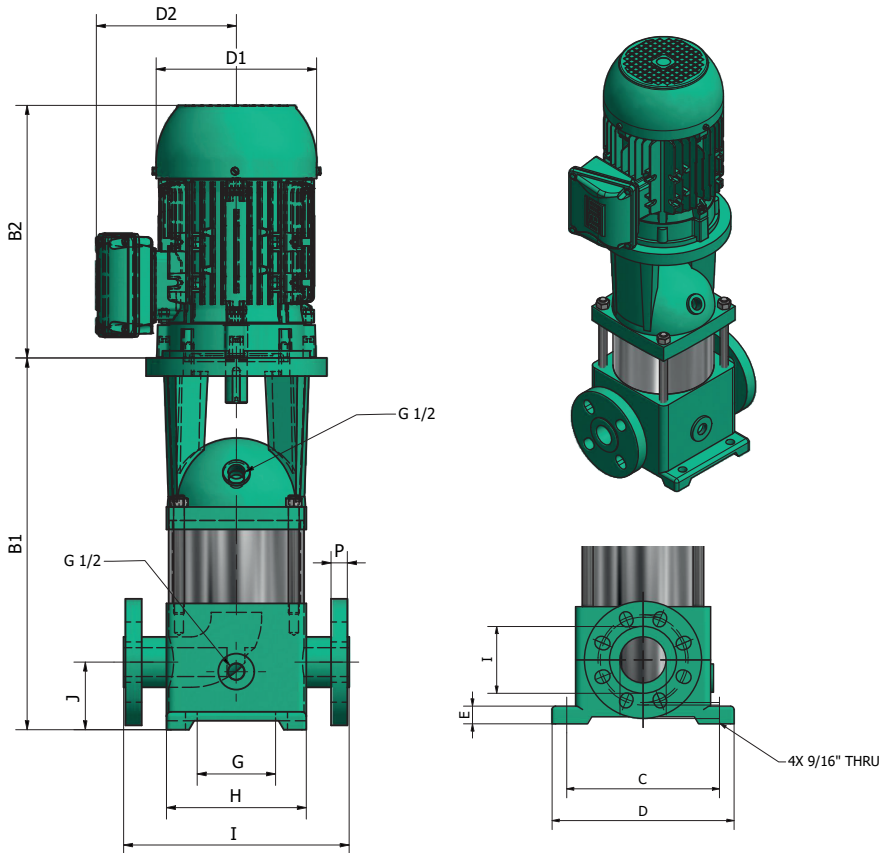
Note: ANSI B16.5 Flanges for dimensions see page 52-53.
Dimensions in inches.
Technical specifications are subject to change without prior notice.



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.

Dimensional
VSE Line
VSE 90



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 90-1-1-150	1G0668	22 1/2	19 1/4	41 3/4	13	10	11	13 5/7	1 7/9	3/4	7 5/6	10 2/7	15	5 1/2	1 1/9	406	4	4
VSE 90-1-200	1G0669	22 1/2	19 1/4	41 3/4	13	10	11	13 5/7	1 7/9	3/4	7 5/6	10 2/7	15	5 1/2	1 1/9	406	4	4
VSE 90-2-2-250	1G0670	30 3/8	21 5/8	52 1/8	13	10	11	13 5/7	1 7/9	3/4	7 5/6	10 2/7	15	5 1/2	1 1/9	582	4	4
VSE 90-2-1-300	1G0671	30 3/8	23 1/4	53 5/8	14 1/8	11 1/4	11	13 5/7	1 7/9	3/4	7 5/6	10 2/7	15	5 1/2	1 1/9	582	4	4
VSE 90-2-400	1G0672	30 3/8	26	56 3/8	16 1/2	12 1/4	11	13 5/7	1 7/9	3/4	7 5/6	10 2/7	15	5 1/2	1 1/9	725	4	4
VSE 90-3-2-500	1G0673	34	26	60	16 1/2	12 1/4	11	13 5/7	1 7/9	3/4	7 5/6	10 2/7	15	5 1/2	1 1/9	800	4	4
VSE 90-3-1-500	1G0674	34	26	60	16 1/2	12 1/4	11	13 5/7	1 7/9	3/4	7 5/6	10 2/7	15	5 1/2	1 1/9	800	4	4
VSE 90-3-600	1G0675	34	27 1/2	61 5/8	18 1/2	13 5/8	11	13 5/7	1 7/9	3/4	7 5/6	10 2/7	15	5 1/2	1 1/9	800	4	4
VSE 90-4-2-600	1G0676	37 5/8	27 1/2	65 1/4	18 1/2	13 5/8	11	13 5/7	1 7/9	3/4	7 5/6	10 2/7	15	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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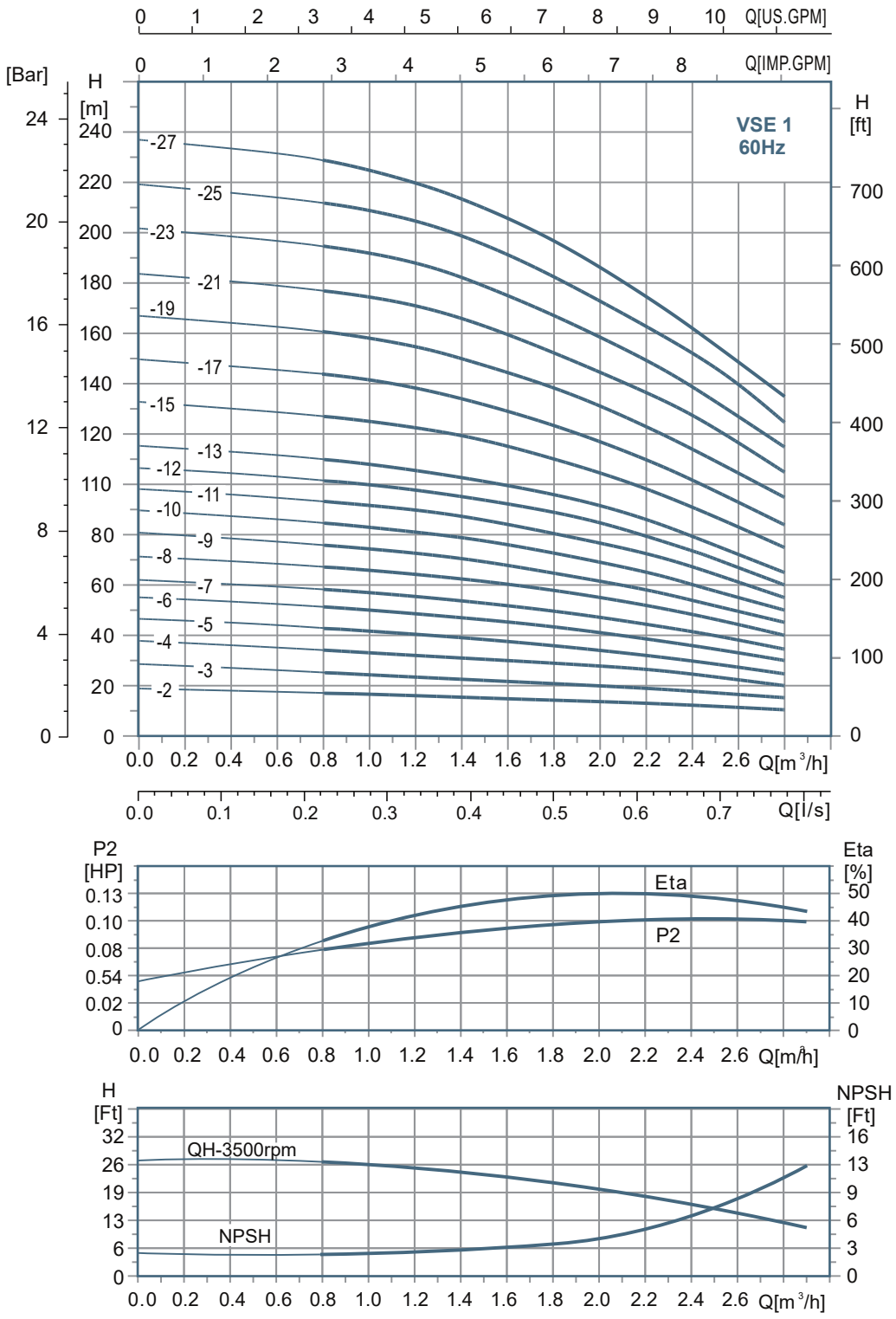
VSE Line
Performance Curve
VSE 1

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 104° 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"

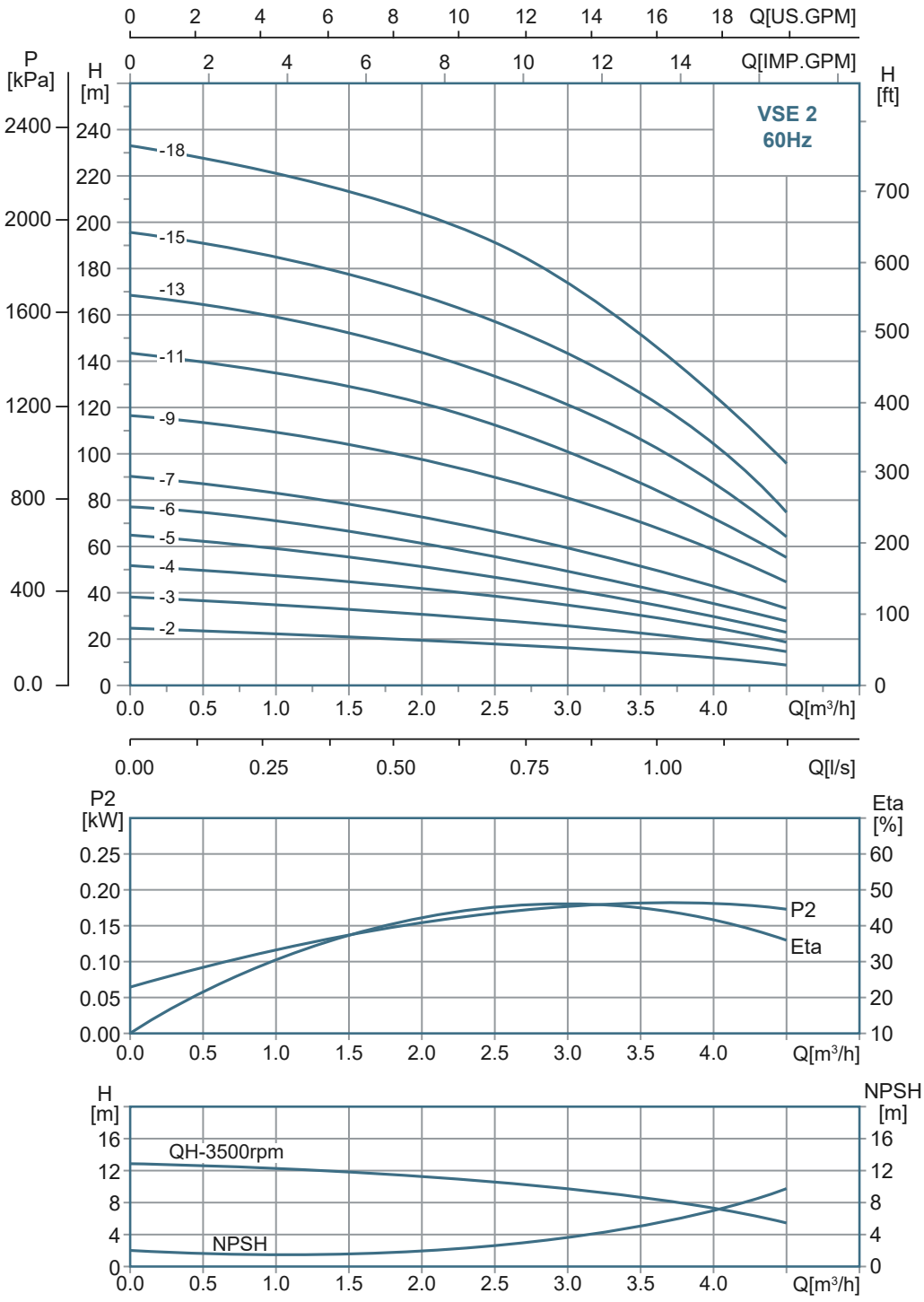
Motor Features		
Drive	Speed (rpm)	Frequency (Hz)
Electric	3500	60
Power (HP)	Phase	Voltage (V)
0.5	1	127/230
0.5	1	127/230
0.5	1	127/230
0.75	1	127/230
0.75	1	127/230
1	1	127/230
1	1	127/230
1	3	230/460
1.5	1	127/230
1.5	3	230/460
1.5	1	127/230
1.5	3	230/460
1.5	3	230/380
1.5	3	127/230
2	1	230
2	1	230/460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



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 104° 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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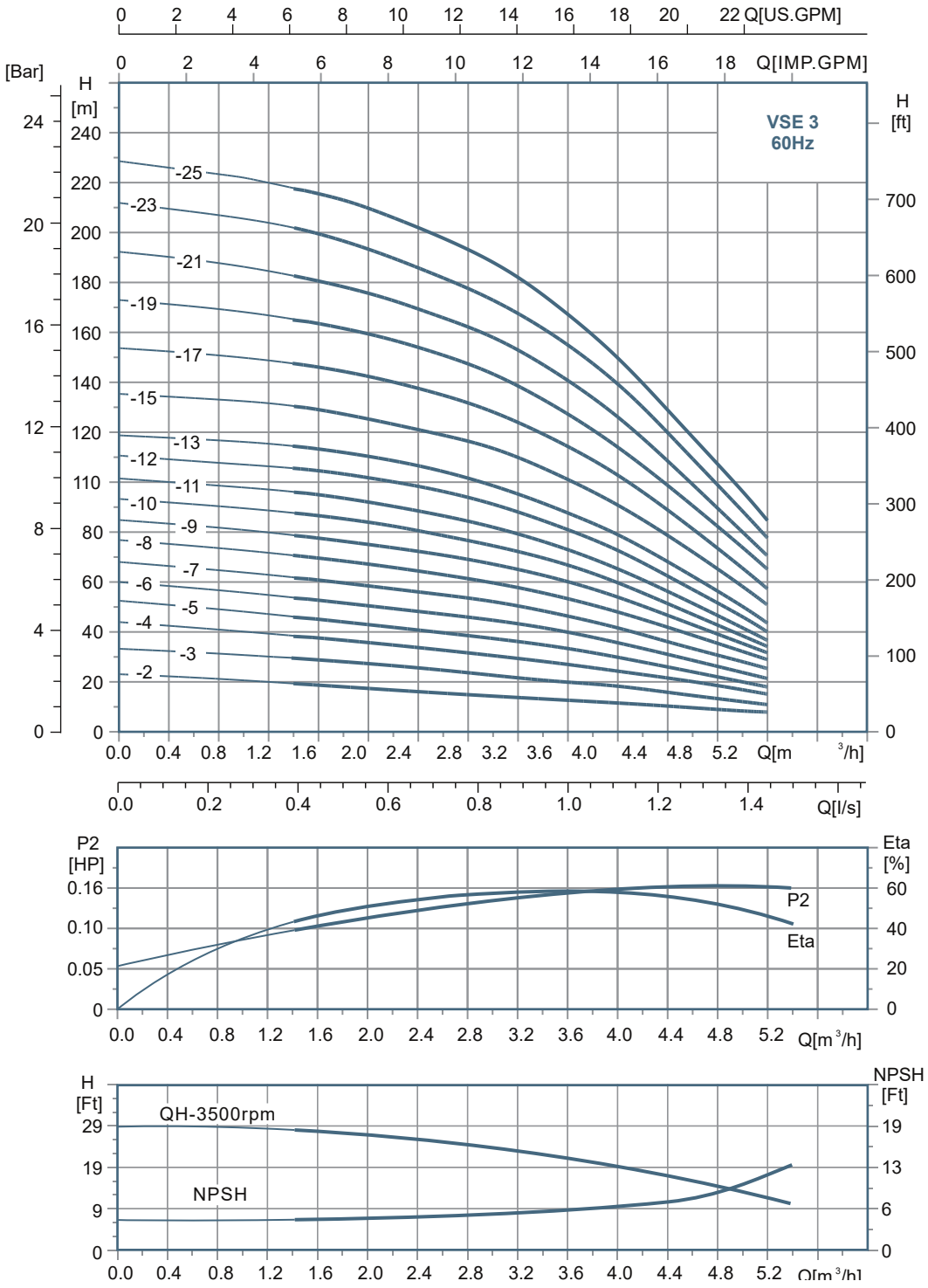
Q[IMP.GPM]
P [kPa]
H [m]
H [ft]
VSE 2
60Hz
-18
-15
-13
-11
-9
-7
-6
-5
-4
-3
-2
Q[m³/h]
Q[l/s]
P2 [kW]
Eta [%]
P2
Eta
H [m]
NPSH [m]
QH-3500rpm
NPSH

VSE Line
Performance Curve
VSE 3

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 104° 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

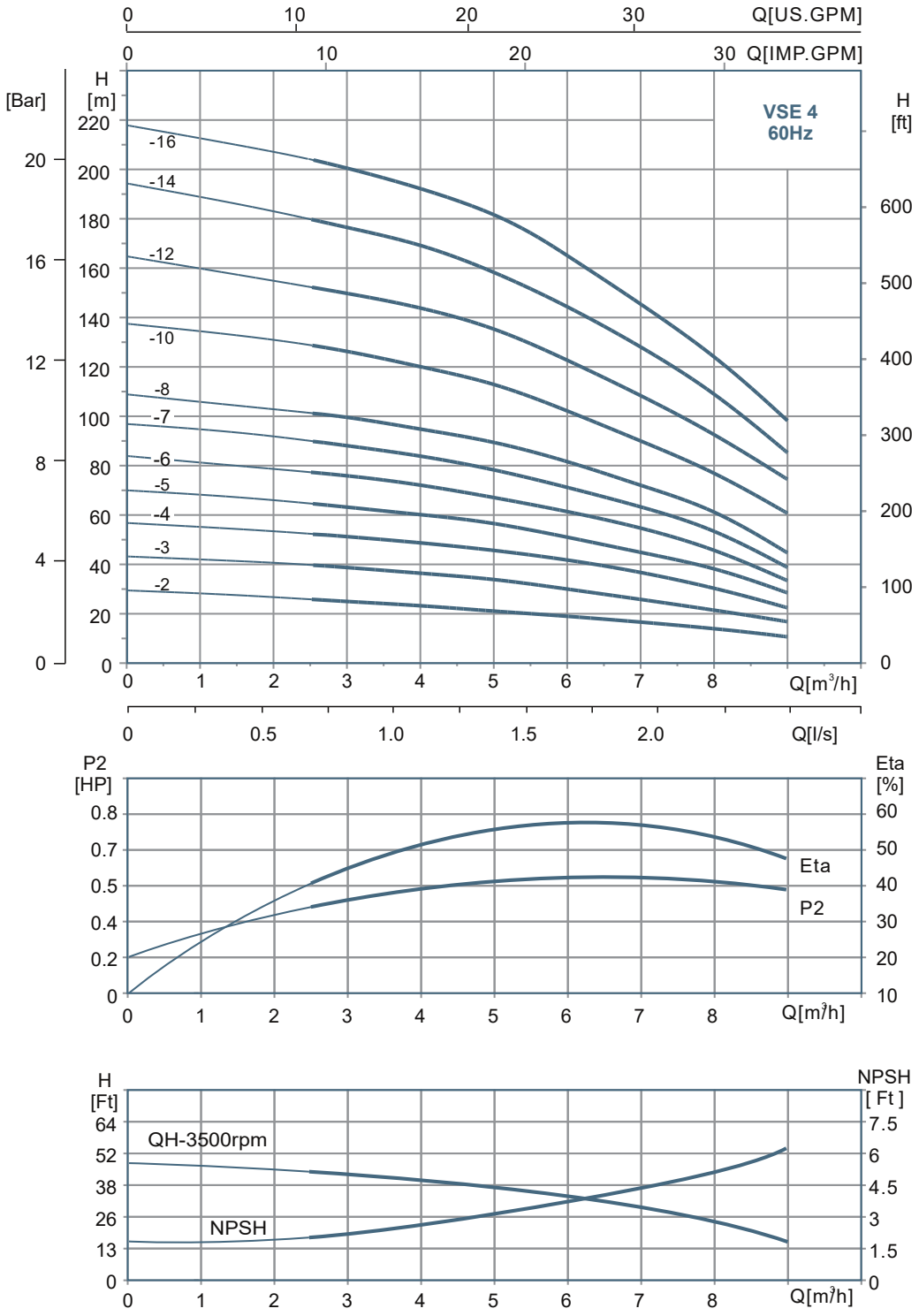
2 Poles (3450 rpm)



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 104° 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	230/460
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

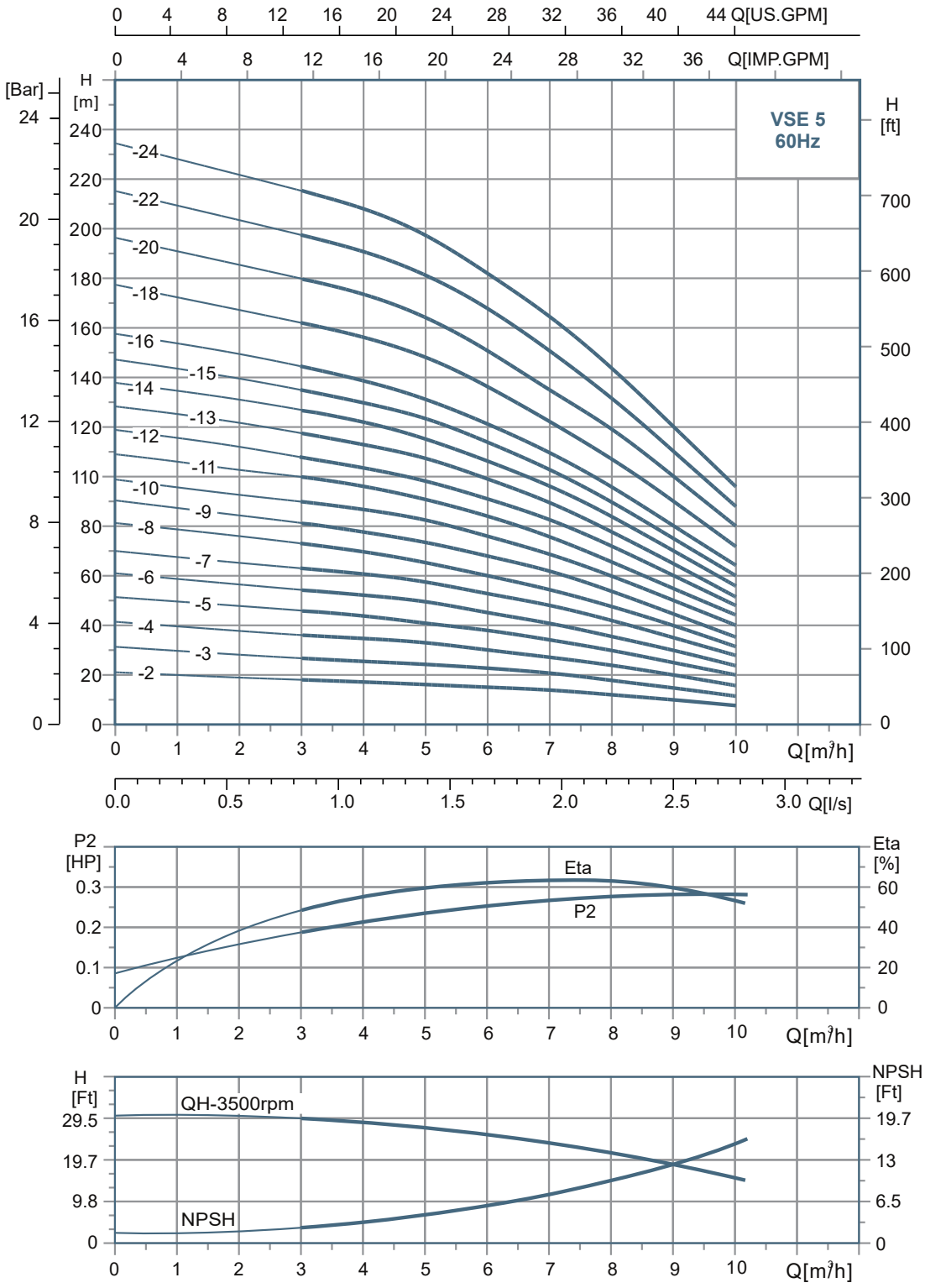
2 Poles (3450 rpm)



VSE Line
Performance Curve
VSE 5

Pump Features						Motor Features		
Pump Type		Design		Impeller		Drive	Speed (rpm)	Frequency (Hz)
In Line		Close Coupled		Enclosed, Stainless Steel		Electric	3500	60
Mechanical Seal			Fluid Temperature Range			Power (HP)	Phase	Voltage (V)
NJK-12 (1/2")			-4° F to 219.2° F (-20° C a 104° C)					
Model	Reference	Stages	Ø Suction	Ø Discharge	Ø Impeller			
VSE 5-2-7-1	1G0723	2	1 1/4"	1"	3 1/2"	0.75	1	127/230
VSE 5-3-15-1	1G0724	3	1 1/4"	1"	3 1/2"	1.5	1	127/230
VSE 5-4-15-1	1G0725	4	1 1/4"	1"	3 1/2"	1.5	1	127/230
VSE 5-5-20-1	1G0726	5	1 1/4"	1"	3 1/2"	2.0	1	127/230
VSE 5-6-30	1G0727	6	1 1/4"	1"	3 1/2"	3.0	3	230/460
VSE 5-7-30	1G0728	7	1 1/4"	1"	3 1/2"	3.0	3	230/460
VSE 5-8-30	1G0729	8	1 1/4"	1"	3 1/2"	3.0	3	230/460
VSE 5-9-30-1	1G0177	9	1 1/4"	1"	3 1/2"	3.0	1	230
VSE 5-9-30	1G0178	9	1 1/4"	1"	3 1/2"	3.0	3	230/460
VSE 5-9-30	1G0465	9	1 1/4"	1"	3 1/2"	3.0	3	230/380
VSE 5-10-40	1G0730	10	1 1/4"	1"	3 1/2"	4.0	3	230/460
VSE 5-11-40	1G0731	11	1 1/4"	1"	3 1/2"	4.0	3	230/460
VSE 5-12-40	1G0732	12	1 1/4"	1"	3 1/2"	4.0	3	230/460
VSE 5-13-55	1G0733	13	1 1/4"	1"	3 1/2"	5.5	3	230/460
VSE 5-14-55	1G0734	14	1 1/4"	1"	3 1/2"	5.5	3	230/460
VSE 5-15-55	1G0735	15	1 1/4"	1"	3 1/2"	5.5	3	230/460
VSE 5-16-5	1G0179	16	1 1/4"	1"	3 1/2"	5	3	230/460
VSE 5-16-5	1G0474	16	1 1/4"	1"	3 1/2"	5	3	230/380
VSE 5-18-75	1G0736	18	1 1/4"	1"	3 1/2"	7.5	3	230/460
VSE 5-20-75	1G0737	20	1 1/4"	1"	3 1/2"	7.5	3	230/460
VSE 5-22-75	1G0180	22	1 1/4"	1"	3 1/2"	7.5	3	230/460
VSE 5-22-75	1G0478	22	1 1/4"	1"	3 1/2"	7.5	3	230/380
VSE 5-24-100	1G0738	24	1 1/4"	1"	3 1/2"	10	3	230/460

2 Poles (3450 rpm)

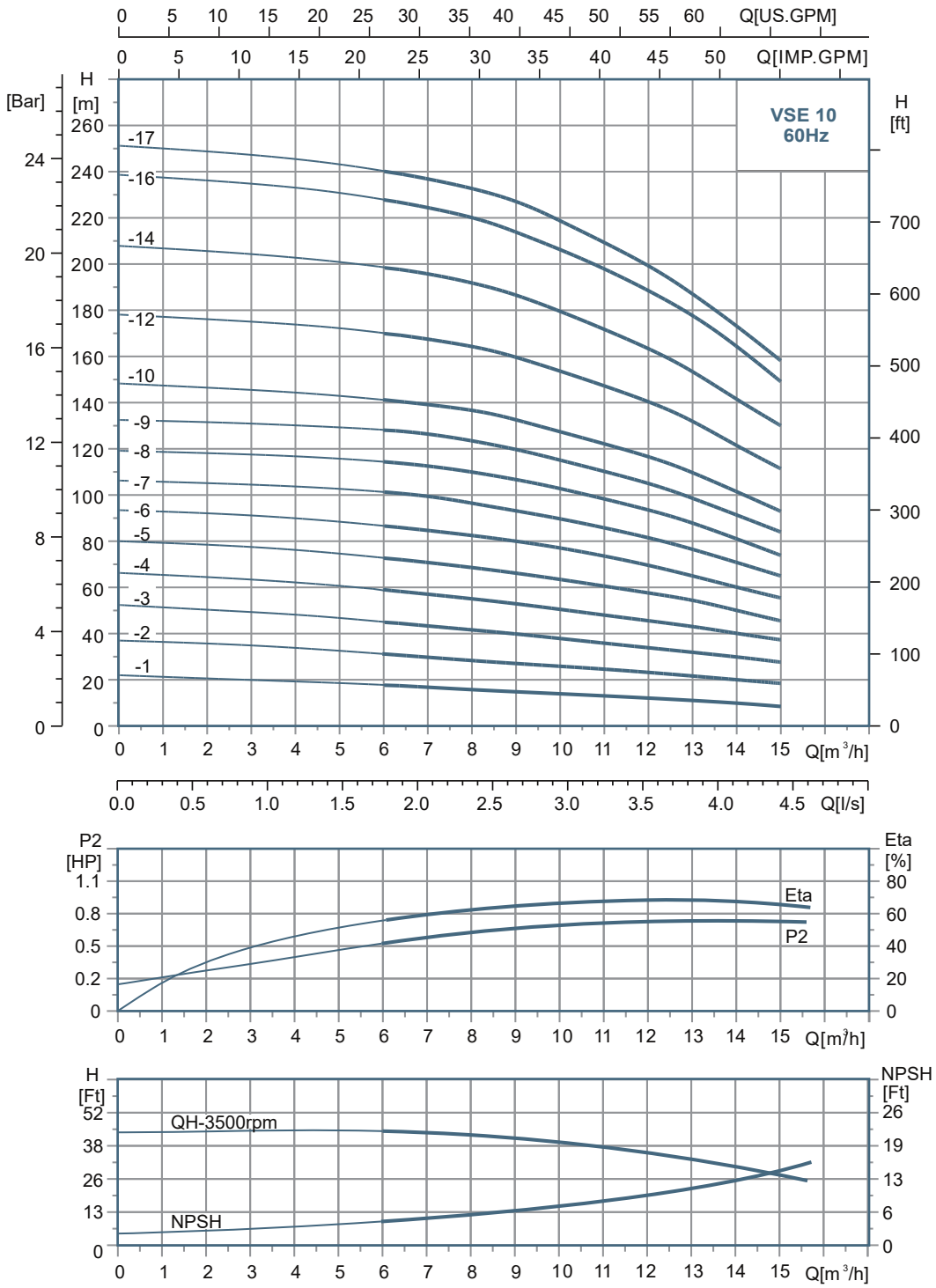


VSE Line
Performance Curve
VSE 10

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 104° 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)

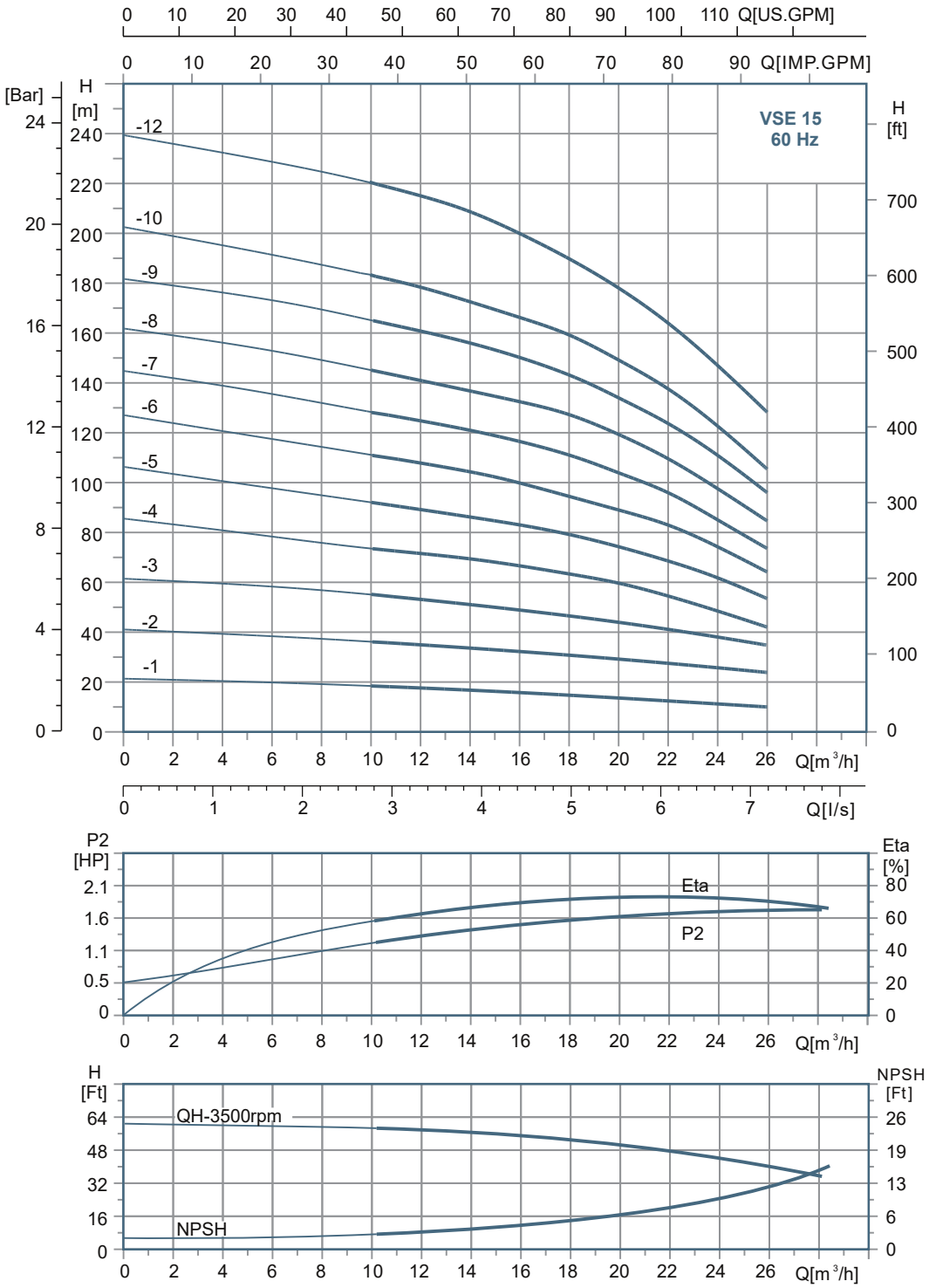


VSE Line
Performance Curve
VSE 15

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 104° 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)

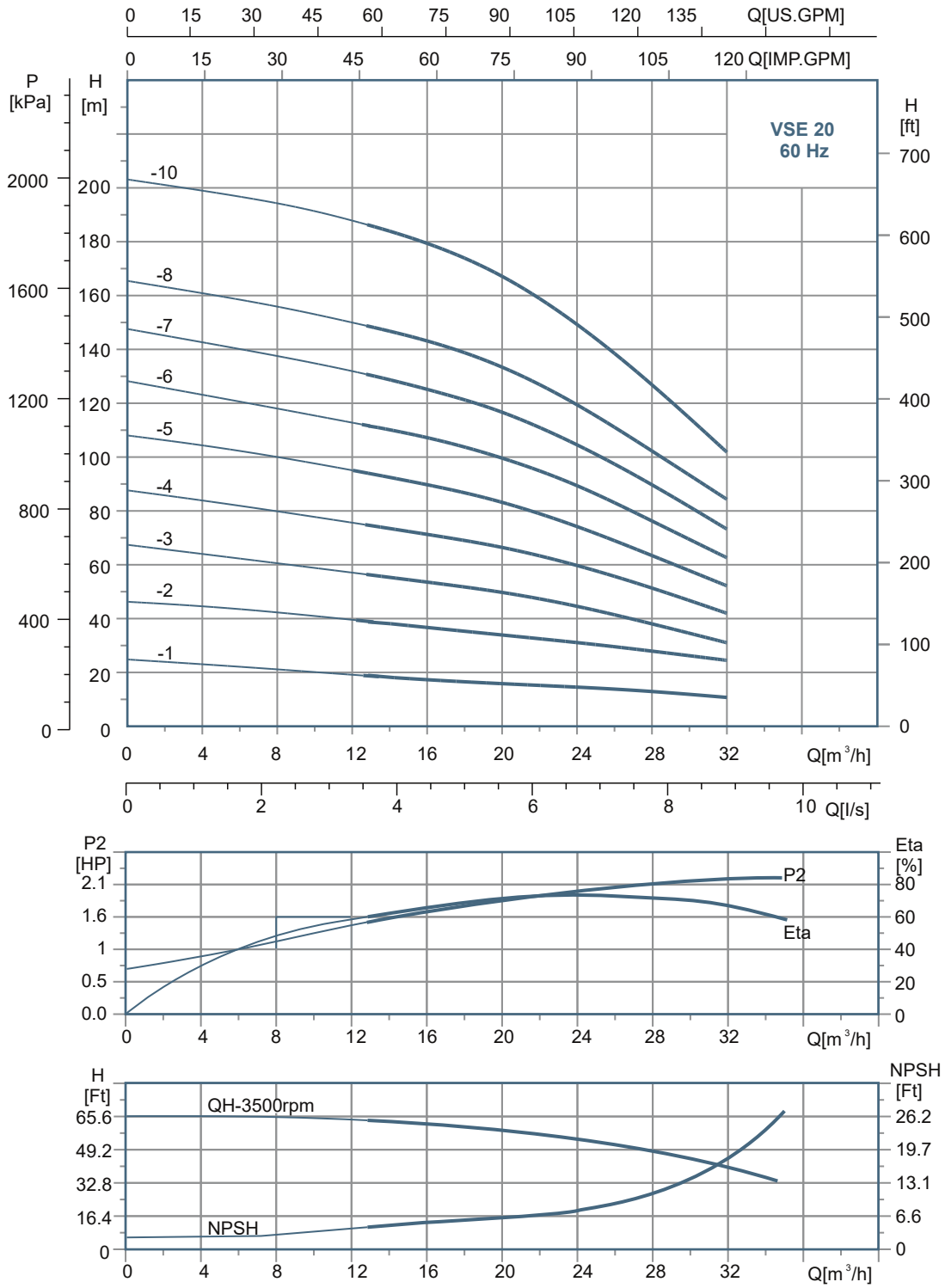


VSE Line
Performance Curve
VSE 20

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 104° 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)

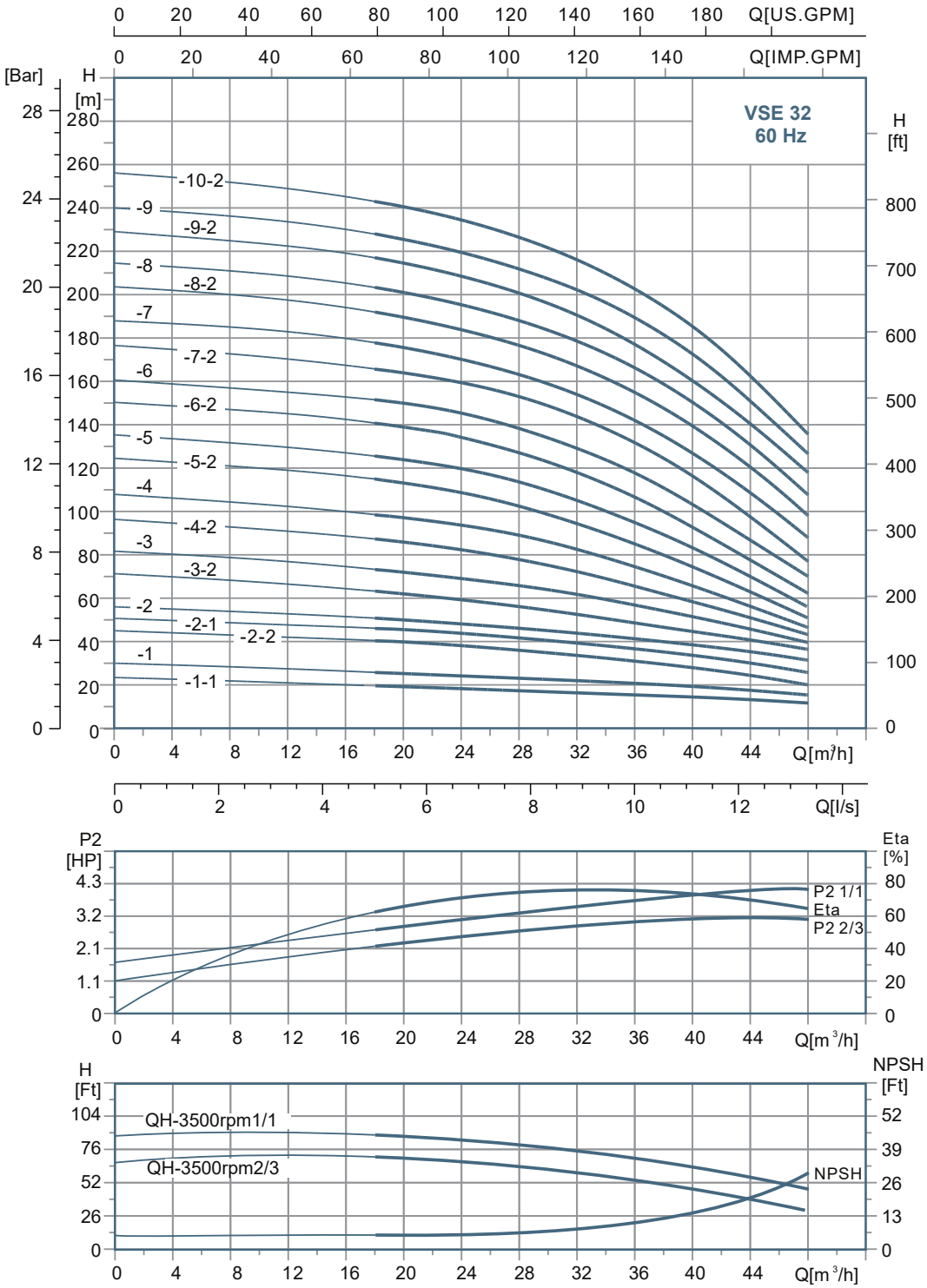


VSE Line
Performance Curve
VSE 32

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 104° 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 32-1-40	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	1G0690	10	2 1/2"	2 1/2"	4 1/2"
VSE 32-10-2-500	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
50	3	230/380/460

2 Poles (3450 rpm)

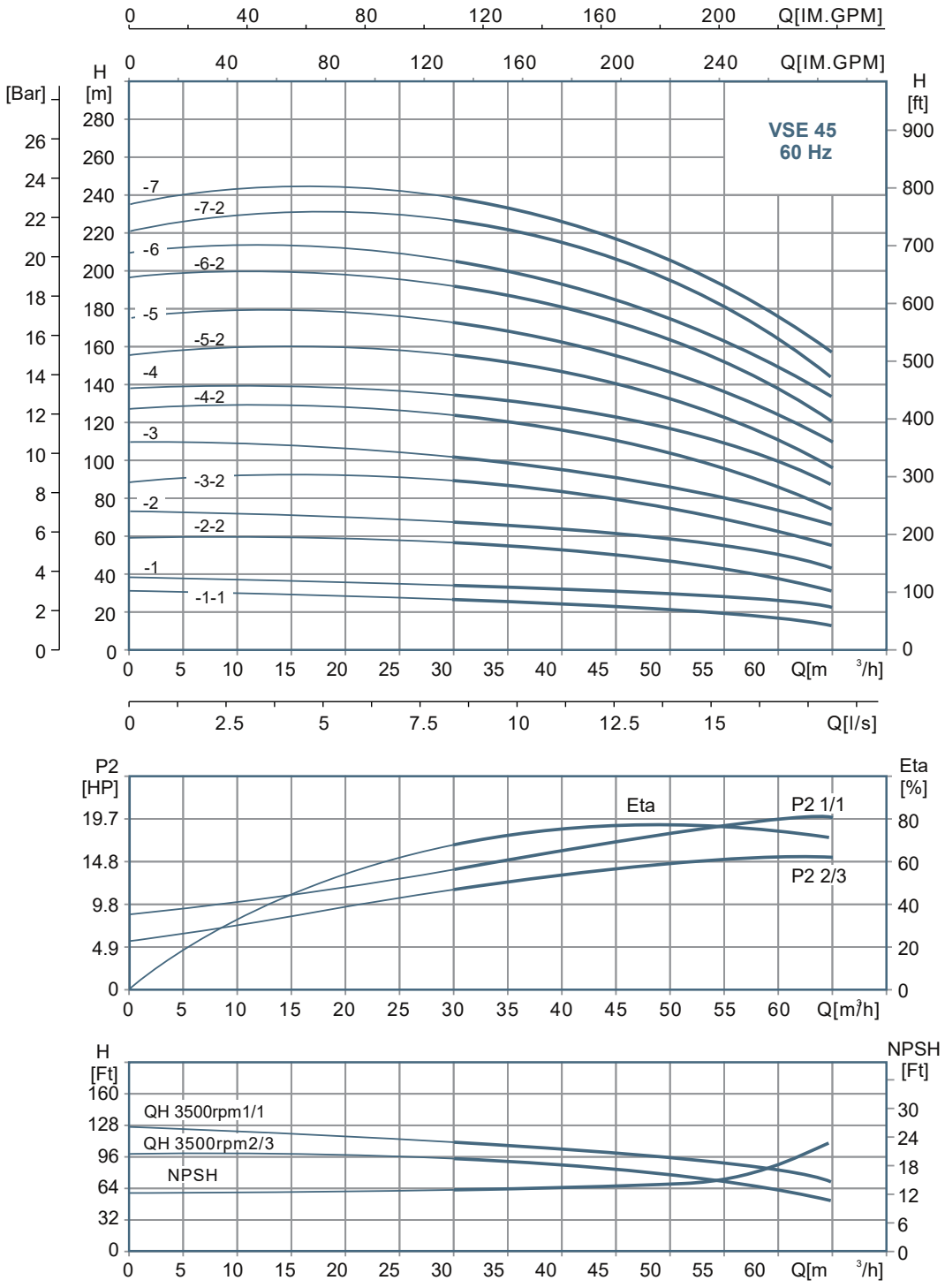


VSE Line
Performance Curve
VSE 45

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 104° 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

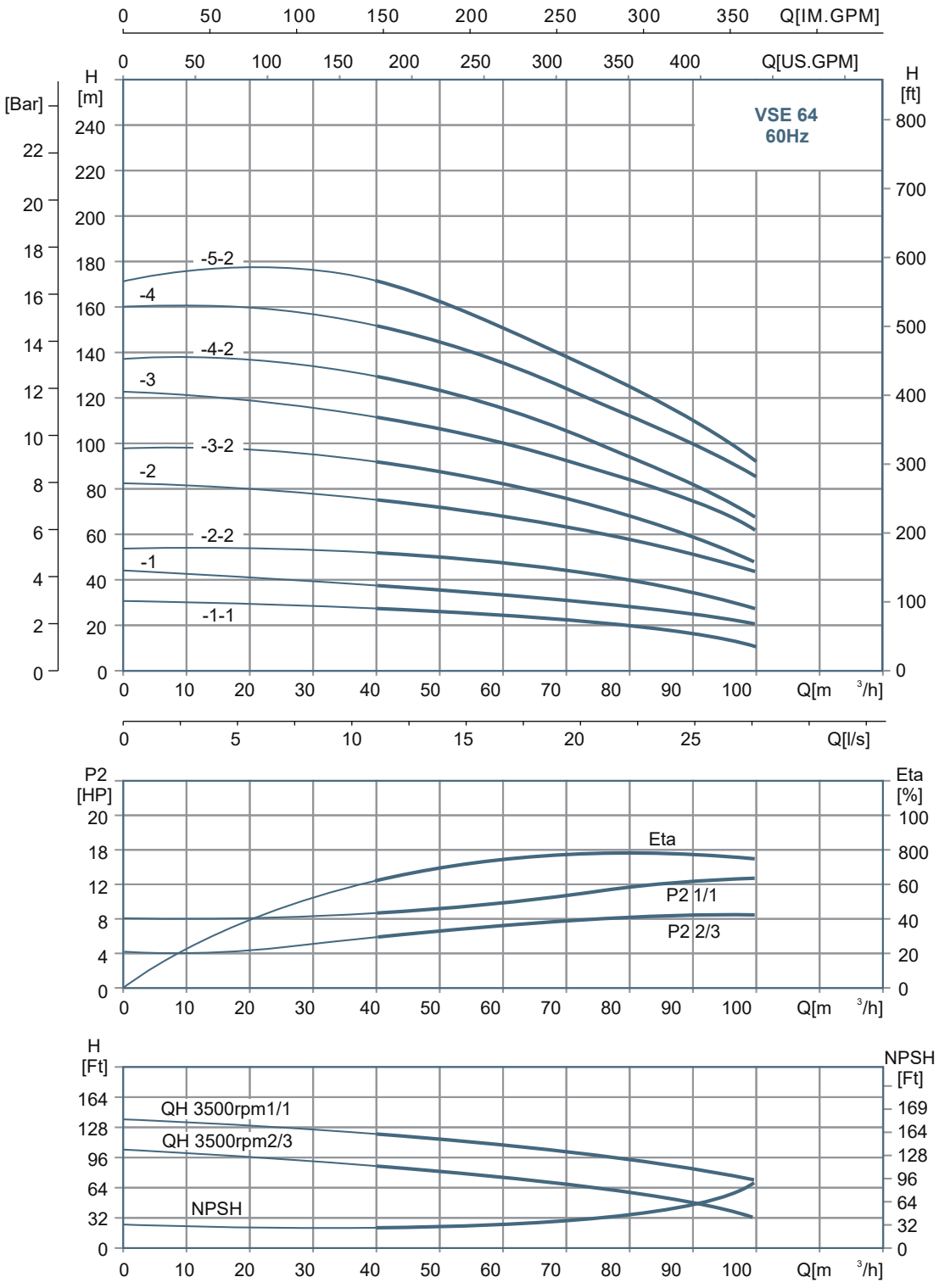
2 Poles (3450 rpm)



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 104° 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

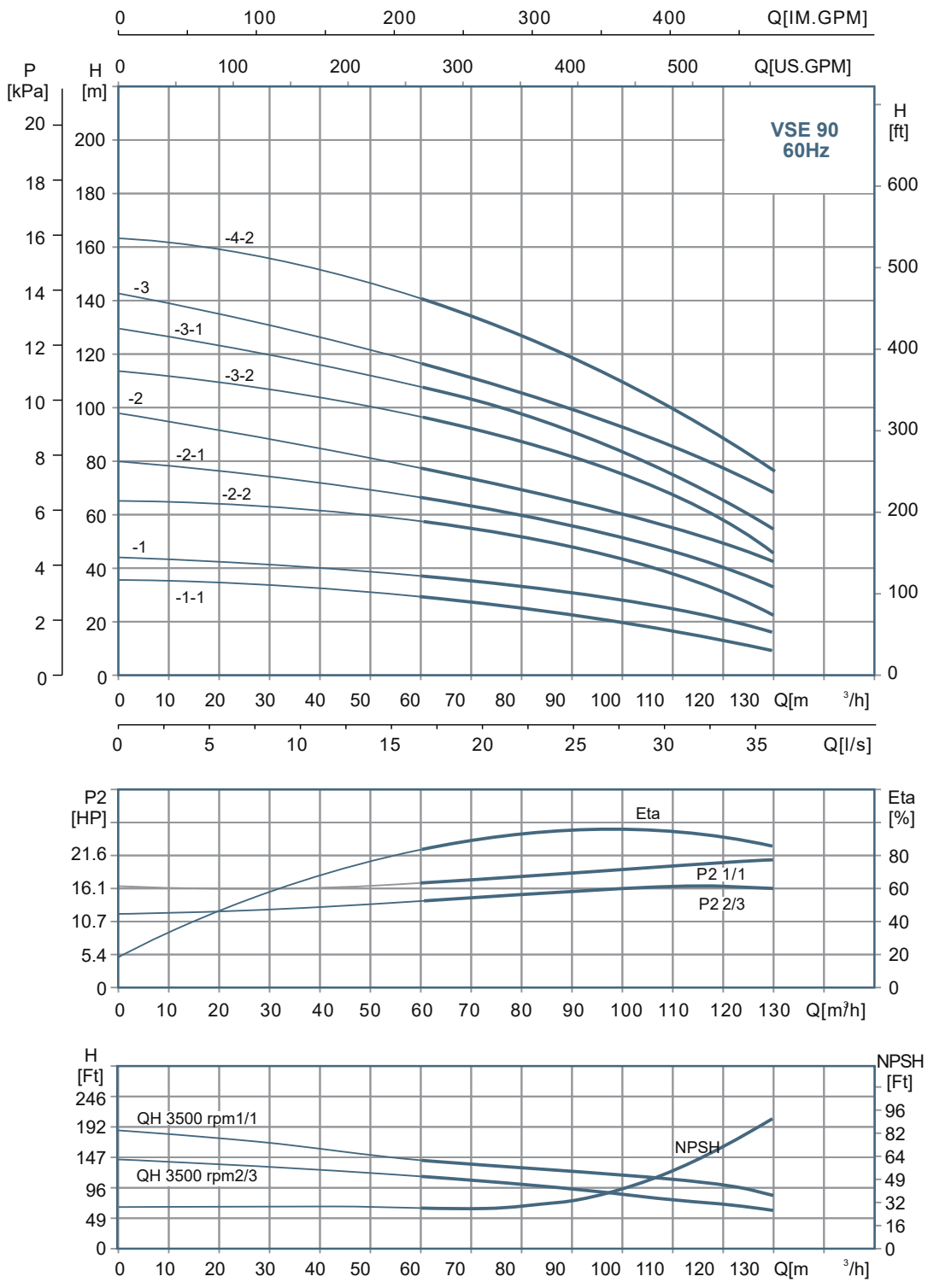
2 Poles (3450 rpm)



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 104° 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"

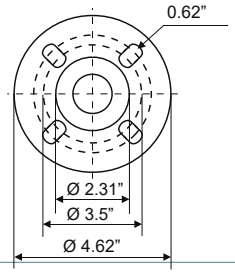
Motor Features		
Drive	Speed (rpm)	Frequency (Hz)
Electric	3500	60
Power (HP)	Phase	Voltage (V)
15	3	230/460
20	3	230/460
25	3	230/460
30	3	230/460
40	3	230/460
50	3	230/460
50	3	230/460
60	3	230/460
60	3	230/460

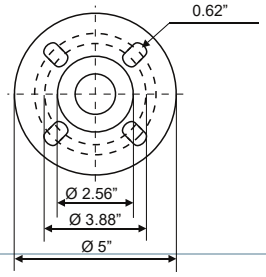
2 Poles (3450 rpm)

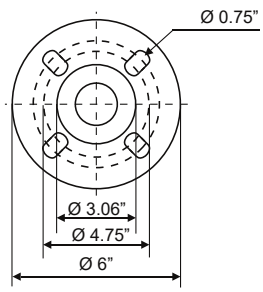


Pipe Connection

Here are the dimensions of the flanges.

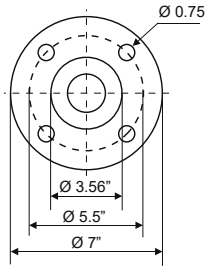
Counter Flange	Pump Model	Description	Rated Pressure	Pipe Work Connection
	VSE 1 VSE 3 VSE 4 VSE 5	Threaded	ANSI Class 150	1-1/4” NPT

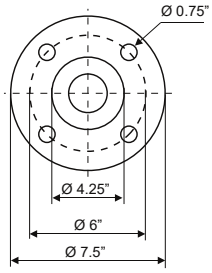
Counter Flange	Pump Model	Description	Rated Pressure	Pipe Work Connection
	VSE 10	Threaded	ANSI Class 150	1-1/2” NPT

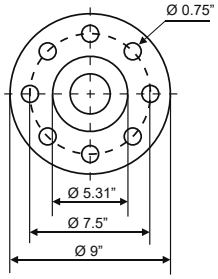
Counter Flange	Pump Model	Description	Rated Pressure	Pipe Work Connection
	VSE 15 VSE 20	Threaded	ANSI Class 150	2” NPT

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 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.

	Flange		Threaded Counterflange	
Model	Ø Suction	Ø Discharge	Ø Suction	Ø Discharge
VSE 1 VSE 2 VSE 3 VSE 4 VSE 5	1-1/4”	1”	1-1/4” NPT	1” NPT
VSE 10	1-1/2”		2” NPT	1-1/2” NPT
VSE 15 VSE 20	2”		2-1/2” NPT	2” NPT
VSE 32	2-1/2”		3” NPT	
VSE 45	3”		3” NPT	
VSE 64 VSE 90	4”		4” NPT	

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