

CR, CRI, CRX, CRN

Vertical Multistage Centrifugal Pumps
60 Hz



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Mission

- to successfully develop, produce, and sell high quality pumps and pumping systems worldwide, contributing to a better quality of life and healthier environment



GBJ - Bjerringbro, Denmark



GMU - Fresno, California



GPU - Olathe, Kansas



GMX - Monterrey, Mexico



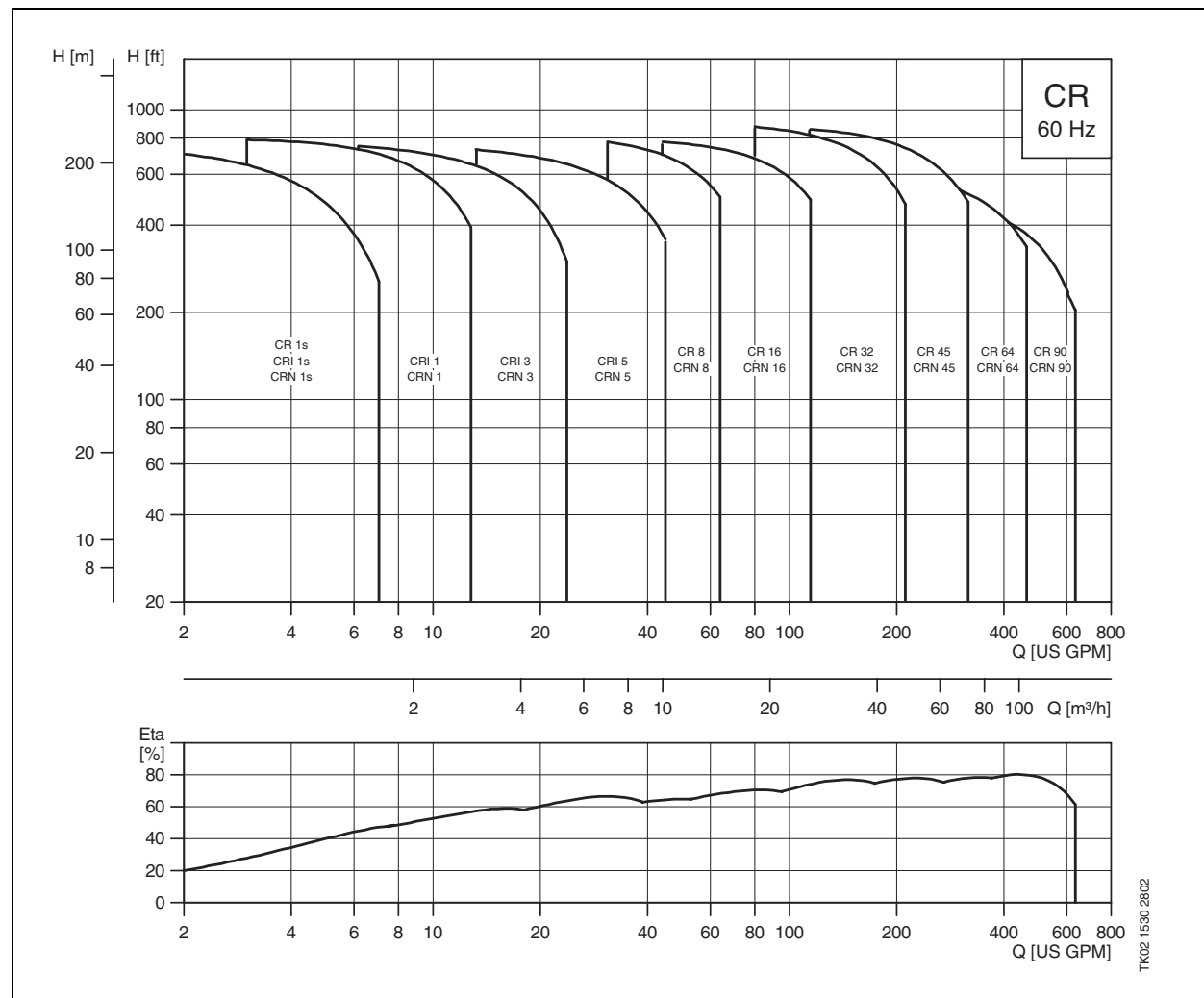
GPA - Allentown, Pennsylvania



GCA - Oakville, Ontario

- One of the 3 largest pump companies in the world
- World headquarters in Denmark
- North American headquarters in Kansas City - Manufacturing in Fresno, California
- 60 companies in 40 countries
- More than 10 million pumps produced annually worldwide
- North American companies operating in USA, Canada and Mexico
- Continuous reinvestment in growth and development enables the company to
BE responsible, **THINK** ahead, and **INNOVATE**

Performance range



Product range

	CR 1s	CR 1	CR 3	CR 5	CR 8	CR 16	CR 32	CR 45	CR 64	CR 90
Range:										
Nominal flow (gpm)	4.5	8.5	16	30	50	80	140	220	340	440
Flow range (gpm)	0.5 - 7	1 - 13	1.5 - 24	3 - 45	5 - 65	8 - 115	14 - 210	22 - 310	34 - 450	44 - 630
Max. pump head H[ft]	750	790	785	780	825	815	995	940	565	595
Max. working pressure (psi)	360	360	360	360	360	360	435	435	360	360
Motor power (hp)	1/3 - 2	1/3 - 3	1/3 - 5	3/4 - 7 1/2	3/4 - 15	3 - 25	3 - 40	7.5 - 60	7.5 - 60	15 - 60
Temperature (°F)	-4 to +250	-4 to +250	-4 to +250	-4 to +250	-4 to +250	-4 to +250	-22 to +250	-22 to +250	-22 to +250	-22 to +250
Maximum efficiency (%)	36	48	58	64	64	70	76	78	79	80
Version:										
CR (AISI 304/Cast Iron)	●	●	●	●	●	●	●	●	●	●
CRI/CRX (AISI 304)	●	●	●	●	●	●				
CRN (AISI 316)	●	●	●	●	●	●	●	●	●	●
CRT (Titanium)	○	○	○	○	●	●				
CR pipe connection:										
ANSI Flange Size	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2"	2 1/2"	2 1/2"	3"	4"	4"
ANSI Flange Class	300 lb.	300 lb.	300 lb.	300 lb.	250 lb.	250 lb.	150/300 lb.	150/300 lb.	150/300 lb.	150/300 lb.
Oval Flange (NPT)	1"	1"	1"	1 1/4"						
CRI/CRX pipe connection:										
ANSI Flange Size	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2"	2 1/2"				
ANSI Flange Class	300 lb.	300 lb.	300 lb.	300 lb.	250 lb.	250 lb.				
Oval Flange (NPT)	1"	1"	1"	1 1/4"						
CRN pipe connection:										
ANSI Flange Size	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2"	2 1/2"	2 1/2"	3"	4"	4"
ANSI Flange Class	300 lb.	300 lb.	300 lb.	300 lb.	250 lb.	250 lb.	150/300 lb.	150/300 lb.	150/300 lb.	150/300 lb.
PJE (Victaulic)	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2"	2"				
CRT pipe connection:										
PJE coupling (Victaulic)	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2"	2"				

● Available

○ CRT 2 and 4

Applications

The CR is a multi-purpose pump suitable for a variety of different applications demanding reliable and cost-efficient supply.

CR handles a variety of liquids from potable water to industrial liquids within a very wide temperature, flow and pressure scale.

Below is a list representing some general examples of applications:

Water supply

- filtration and transfer at waterworks
- distribution from waterworks
- pressure boosting in mains
- pressure boosting in high-rise buildings, hotels, etc.
- pressure boosting for industrial water supply.

Industry

Pressure boosting in ...

- process water systems,
- washing and cleaning systems,
- high-pressure washdown systems,
- vehicle washing tunnels,
- fire fighting systems.

Liquid transfer in ...

- cooling and air-conditioning systems (refrigerants),
- boiler feed and condensate systems,
- machine tools (cooling lubricants),
- aquafarming.

Transfer of ...

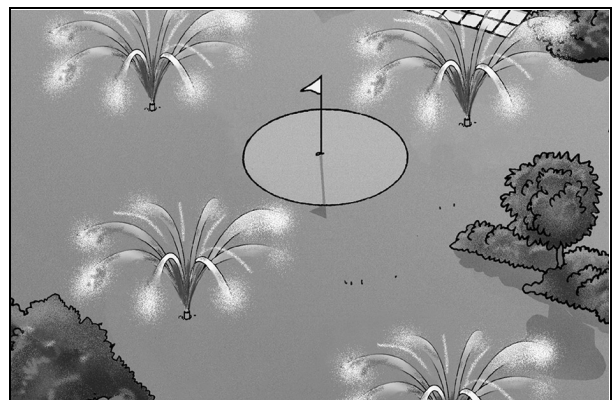
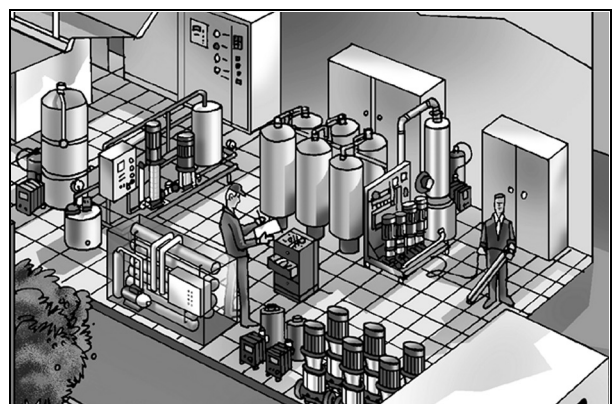
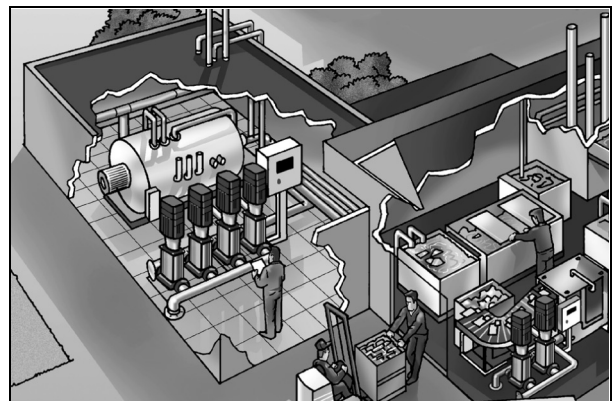
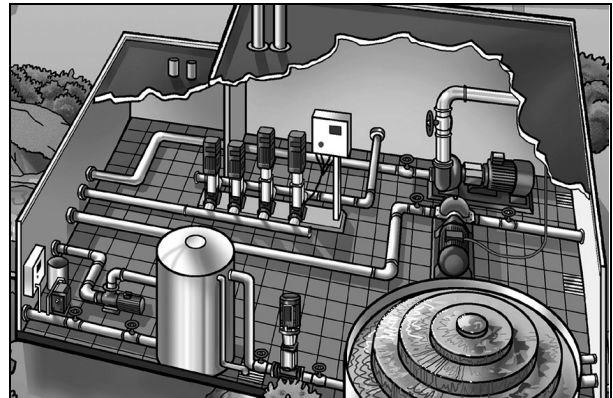
- oils and alcohols,
- acids and alkalis.

Water treatment

- ultra-filtration systems
- reverse osmosis systems
- softening, ion exchange, demineralizing systems
- distillation systems
- separators
- swimming pools.

Irrigation

- field irrigation (flooding)
- sprinkler irrigation
- drip-feed irrigation.

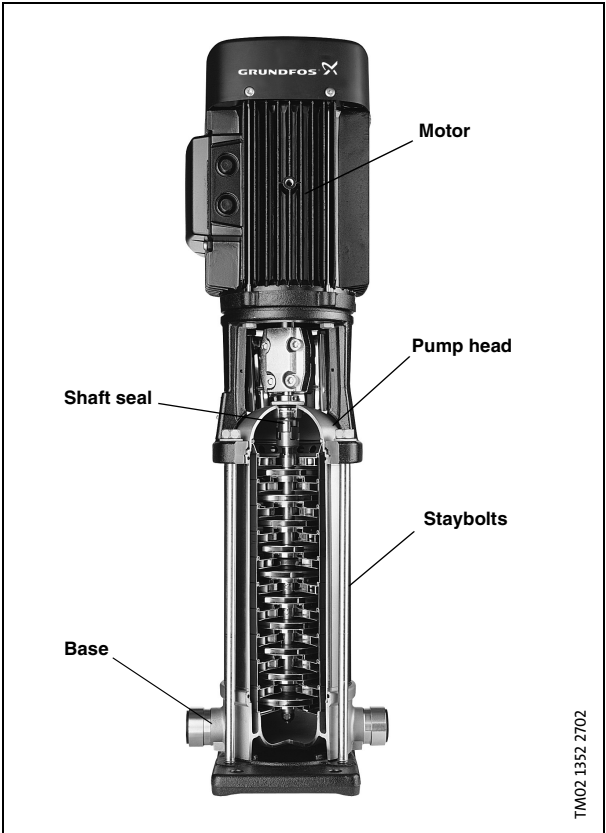


Pump

The CR pump is a non-self-priming, vertical multistage centrifugal pump fitted with a heavy-duty Grundfos-specified motor.

The pump consists of a base and a pump head. The chamber stack and the outer sleeve are secured between the pump head and the base by means of staybolts. The base has suction and discharge ports on the same level (in-line).

All pumps are equipped with a maintenance-free mechanical shaft seal.



Motor

Electrical data

Mounting designation	NEMA
Insulation class	F
Efficiency class	Standard Efficiency EPAct - on request High Efficiency - on request
Enclosure class	ODP - Open Drip Proof TEFC - Totally Enclosed Fan Cooled
60 Hz Standard voltages	1 x 115/208-230V 3 x 208-230/460V 3 x 575V

Motor protection

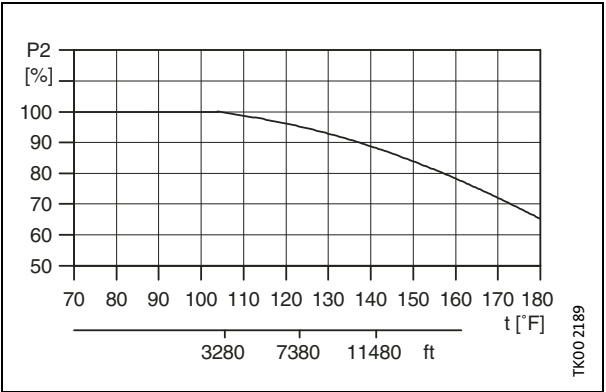
Single-phase motors have a built-in thermal overload switch.

Three-phase motors must be connected to a motor starter in accordance with local regulations.

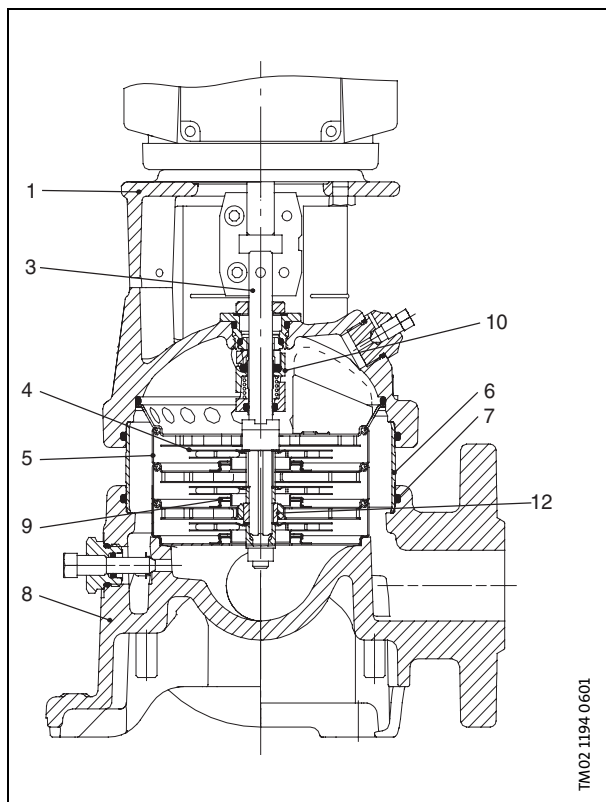
Ambient temperature

Maximum +104°F (+40°C).

If the ambient temperature exceeds +104°F (+40°C) or if the motor is located 3280 ft. (1000 m) above sea level, the motor output (P2) must be reduced due to the low density and consequently low cooling effect of the air. In such cases, it may be necessary to use a motor with a higher output.



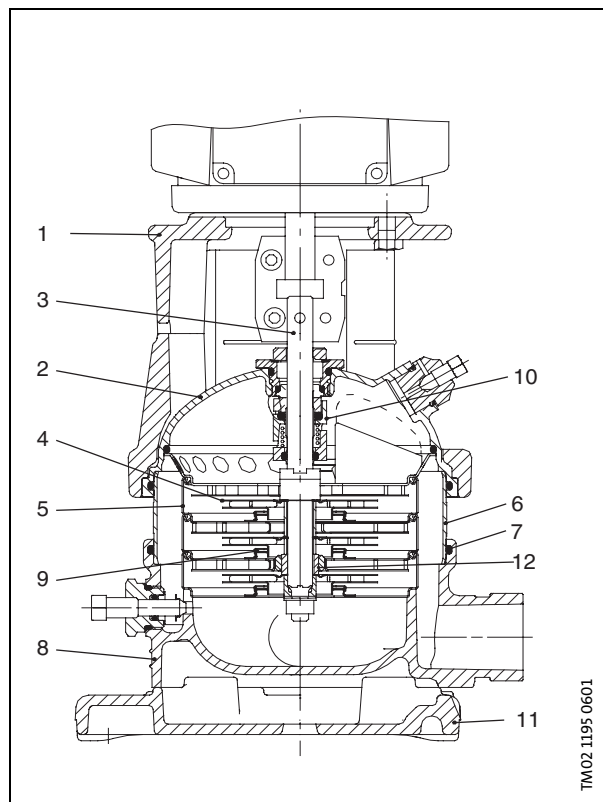
CR 1, 3 and 5



Materials: CR

Pos.	Description	Materials	AISI/ASTM
1	Pump head	Cast iron EN-GJL-200	ASTM 25B
3	Shaft	Stainless steel	AISI 316
4	Impeller	Stainless steel	AISI 304
5	Chamber	Stainless steel	AISI 304
6	Outer sleeve	Stainless steel	AISI 304
7	O-ring for outer sleeve	EPDM or FKM	
8	Base	Cast iron EN-GJL-200	ASTM 25B
9	Neck ring	PTFE	
10	Shaft seal	Cartridge type	
	Rubber parts	EPDM or FKM	
12	Bearing ring	Silicon Carbide/ Silicon Carbide	

CRI, CRN 1, 3 and 5



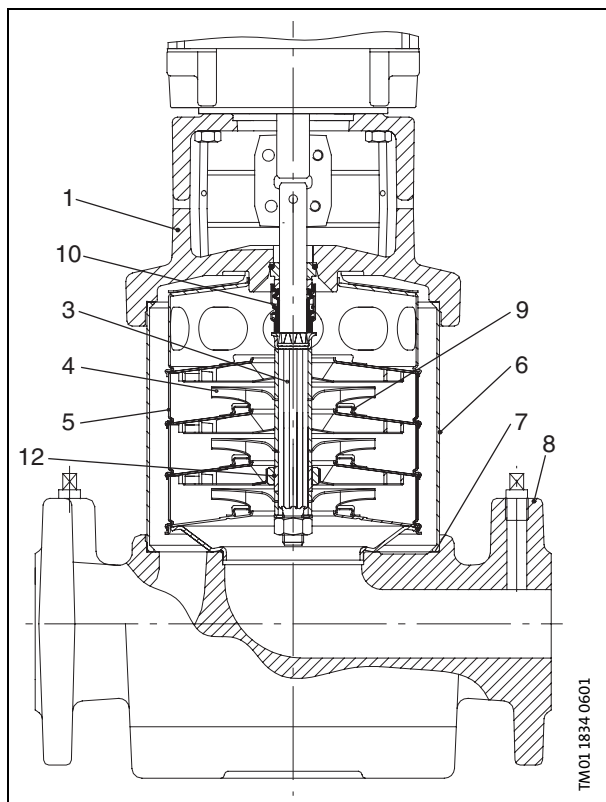
Materials: CRI, CRN

Pos.	Description	Materials	AISI/ASTM
1	Pump head	Cast iron EN-GJL-200	ASTM 25B
2	Pump head cover	Stainless steel	CF8M ★ ★
3	Shaft	Stainless steel	AISI 316 AISI 329
8	Base	Stainless steel	CF8M ★ ★
9	Neck ring	PTFE	
10	Shaft seal	Cartridge type	
11	Base plate	Cast iron EN-GJL-200 ★	ASTM 25B
	Rubber parts	EPDM or FKM	
12	Bearing ring	Silicon Carbide/ Silicon Carbide	
CRI			
4	Impeller	Stainless steel	AISI 304
5	Chamber	Stainless steel	AISI 304
6	Outer sleeve	Stainless steel	AISI 304
7	O-ring for outer sleeve	EPDM or FKM	
CRN			
4	Impeller	Stainless steel	AISI 316
5	Chamber	Stainless steel	AISI 316
6	Outer sleeve	Stainless steel	AISI 316
7	O-ring for outer sleeve	EPDM or FKM	

★ Stainless steel on request.

★★ CF8M is cast equivalent of AISI 316 stainless steel.

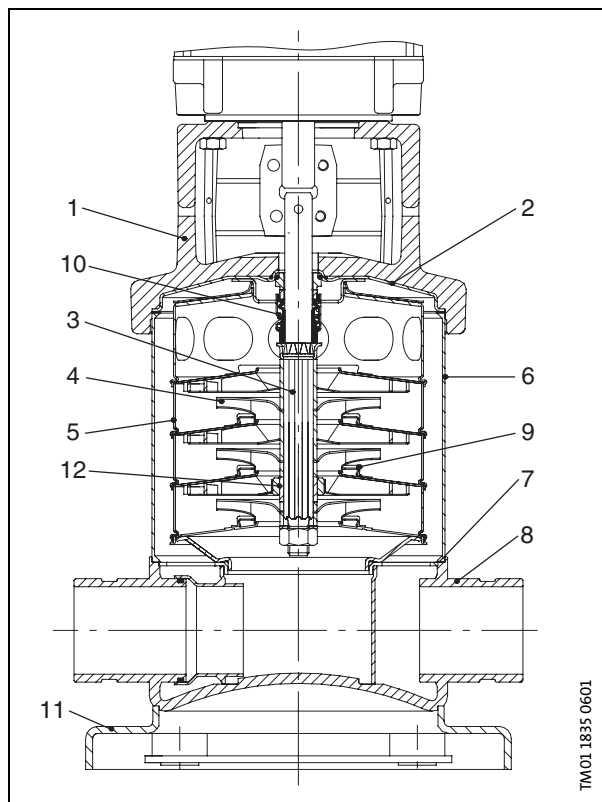
CR 8 and 16



Materials: CR

Pos.	Description	Materials	AISI/ASTM
1	Pump head	Cast iron EN-GJL-200	ASTM 25B
3	Shaft	Stainless steel	AISI 316 AISI 431
4	Impeller	Stainless steel	AISI 304
5	Chamber	Stainless steel	AISI 304
6	Outer sleeve	Stainless steel	AISI 304
7	Gasket for outer sleeve	Asbestos-free fiber	
8	Base	Cast iron EN-GJL-200	ASTM 25B
9	Neck ring	PTFE	
10	Shaft seal	O-ring type	
	Rubber parts	EPDM or FKM	
12	Bearing ring	Cemented tungsten carbide/ aluminum oxide ceramic	

CRX, CRN 8 and 16

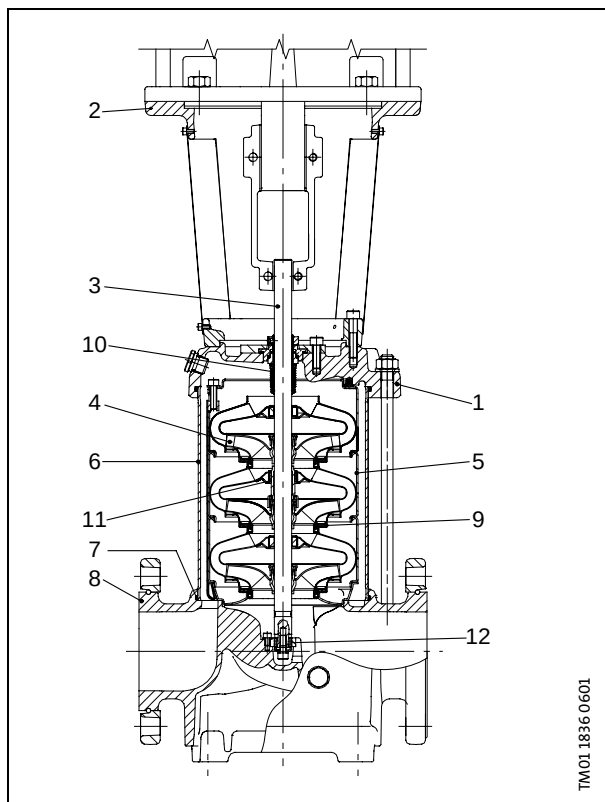


Materials: CRN

Pos.	Description	Materials	AISI/ASTM
1	Pump head	Cast iron EN-GJL-200	ASTM 25B
2	Pump head cover	Stainless steel	AISI 316
3	Shaft	Stainless steel	AISI 316 AISI 329
7	Gasket for outer sleeve	Asbestos-free fiber	
9	Neck ring	PTFE	
10	Shaft seal	O-ring type	
11	Base plate	Cast iron EN-GJL-200 ★	ASTM 25B
	Rubber parts	EPDM or FKM	
12	Bearing ring	Cemented tungsten carbide/ aluminum oxide ceramic	
CRN			
4	Impeller	Stainless steel	AISI 316
5	Chamber	Stainless steel	AISI 316
6	Outer sleeve	Stainless steel	AISI 316
8	Base	Stainless steel	AISI 316
CRX			
4	Impeller	Stainless steel	AISI 304
5	Chamber	Stainless steel	AISI 304
6	Outer sleeve	Stainless steel	AISI 304
8	Base	Stainless steel	AISI 304

★ Stainless steel on request.

CR 32, 45, 64 and 90

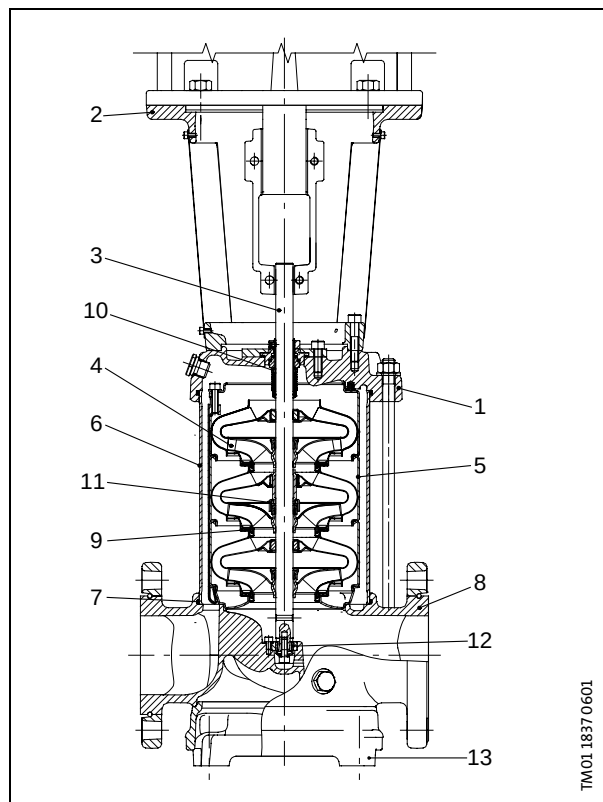


Materials: CR

Pos.	Description	Materials	AISI/ASTM
1	Pump head	Cast iron EN-GJS-500-7	ASTM 80-55-06
2	Motor stool	Cast iron EN-GJL-200	ASTM 25B
3	Shaft	Stainless steel	AISI 431
4	Impeller	Stainless steel	AISI 304
5	Chamber	Stainless steel	AISI 304
6	Outer sleeve	Stainless steel	AISI 304
7	O-ring for outer sleeve	EPDM or FKM	
8	Base	Cast iron EN-GJS-500-7	ASTM 80-55-06
9	Neck ring	Carbon-graphite filled PTFE	
10	Shaft seal	Cartridge type	
11	Bearing ring	Bronze/HY 49	
12	Bottom bearing ring	TC/TC ★	
	Rubber parts	EPDM or FKM	

★ TC= Tungsten Carbide (cemented).

CRN 32, 45, 64 and 90



Materials: CRN

Pos.	Description	Materials	AISI/ASTM
1	Pump head	Stainless steel	CF8M ★★
2	Motor stool	Cast iron EN-GJL-200	ASTM 25B
3	Shaft	Stainless steel	
4	Impeller	Stainless steel	AISI 316
5	Chamber	Stainless steel	AISI 316
6	Outer sleeve	Stainless steel	AISI 316
7	O-ring for outer sleeve	EPDM or FKM	
8	Base	Stainless steel	CF8M ★★
9	Neck ring	Carbon-graphite filled PTFE	
10	Shaft seal	Cartridge type	
11	Bearing ring	HY 49/HY 49	
12	Bottom bearing ring	TC/TC ★	
13	Base plate	Cast iron EN-GJS-500-7 Stainless steel	ASTM 80-55-06
	Rubber parts	EPDM or FKM	

★ TC= Tungsten Carbide (cemented).

★★CF8M is cast equivalent of AISI 316 stainless steel.



Type key

CR, CRI, CRN 1s, 3 and 5

Example	CR	3	-10	U	-FGJ	-A	-E	-HQQE
Type range: CR, CRI, CRN								
Rated flow rate [m³/h]								
Number of impellers								
Code for pump version								
Code for pipe connection								
Code for materials								
Code for rubber parts								
Code for shaft seal								

CR, CRX, CRN 8 and 16

Example	CR	16	-30	/2	-U	-G	-A	-AUUE
Type range: CR, CRX, CRN								
Rated flow rate [m³/h]								
Number of stages x 10								
Number of impellers (only used if the pump has fewer impellers than stages)								
Code for pump version								
Code for pipe connection								
Code for materials								
Code for shaft seal and rubber parts								

CR, CRN 32, 45, 64 and 90

Example	CR	32	-2	-1	-U	-G	-A	-E	-KUBE
Type range: CR, CRN									
Rated flow rate [m³/h]									
Number of stages									
Number reduced-diameter impellers									
Code for pump version									
Code for pipe connection									
Code for materials									
Code for rubber pump parts									
Code for shaft seal									

Codes

Example

Pump version

U	NEMA pump
A	IEC pump
B	Overize motor
F	CR pump for high temperatures (air-cooled top)
H	Horizontal version.
HS	Type J with reversed chamber stack/ direction of rotation
I	Different pressure rating
J	Pump with different max. speed of rotation by means of MGE motor
K	Low NPSH pump
M	Magnetic drive
P	Undersize motor
R	Pulley head version with bracket
S	Pump without staybolts
SF	High pressure pump without staybolts
T	Overize motor, two flange sizes bigger, E-pumps only
X	Special version

Pipe connection

A	Oval flange
B	NPT thread
C	Clamp coupling
CA	FlexiClamp
CX	TRIClamp
FGJ	DIN/ANSI/JIS flange
G	ANSI flange
P	PJE coupling
X	Special version

Materials

A	Basic version
G	Stainless steel parts of AISI 316
GI	Base plate and flanges of AISI 316 LN
I	Stainless steel parts of AISI 304
S	SiC bearing ring + PTFE neck ring (Only CR, CRN 32 to 90)
T	Titanium

Code for rubber parts

E	EPDM
F	FXM
K	FFKM
V	FKM

Shaft seal

A	O-ring seal with fixed driver
B	Rubber bellows seal
D	Balanced seal
E	Cartridge seal with O-ring
H	Balanced cartridge seal
K	Metal bellows cartridge seal
R	O-ring balanced seal

B	Carbon, synthetic
H	Cemented tungsten carbide, embedded hybrid
Q	Silicon carbide
U	Cemented tungsten carbide

E	EPDM
F	FXM
K	FFKM
V	FKM

-U - G - A - E - K U B E

K U B E

Operating range of the shaft seal

The actual 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.

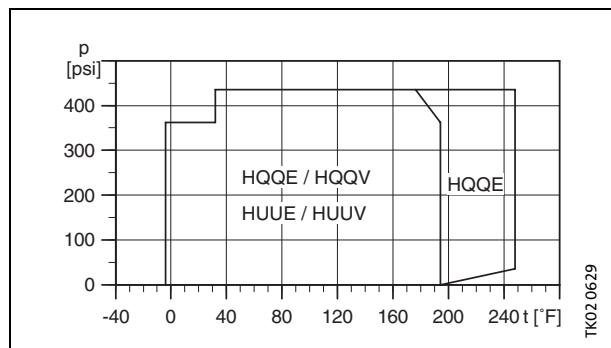
For other liquids, see recommended shaft seals in the "List of pumped liquids", page 74, or contact Grundfos.

In case of extreme temperatures, i.e.

- low temperatures down to -40°F (-40°C) or
- high temperatures up to +356°F (+180°C),

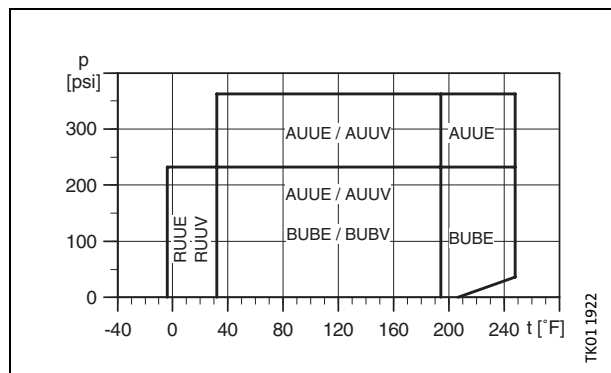
see "Custom-built Pumps," page 80.

CR, CR1, CRN 1, 3 and 5



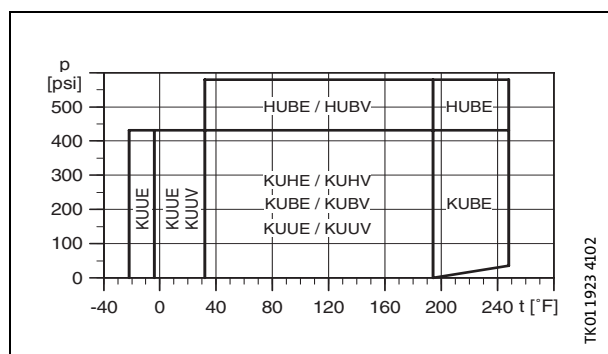
Shaft Seal	Description	Max. temp. range
HQQE	O-ring (cartridge) (balanced seal), SC/SC, EPDM	-4°F to +248°F (-20°C to +120°C)
HQQV	O-ring (cartridge) (balanced seal), SC/SC, FKM	-4°F to +194°F (-20°C to +90°C)
HUUE	O-ring (cartridge) (balanced seal), TC/TC, EPDM	-4°F to +194°F (-20°C to +90°C)
HUUV	O-ring (cartridge) (balanced seal), TC/TC, FKM	-4°F to +194°F (-20°C to +90°C)

CR, CRX, CRN 8 and 16



Shaft Seal	Description	Max. temp. range
AUUE	O-ring, TC/TC, EPDM	+32°F to +248°F (0°C to +120°C)
AUUV	O-ring, TC/TC, FKM	+32°F to +194°F (0°C to +90°C)
RUUE	O-ring (balanced seal), TC/TC, EPDM	-4°F to +194°F (-20°C to +90°C)
RUUV	O-ring (balanced seal), TC/TC, FKM	-4°F to +194°F (-20°C to +90°C)
BUBE	Bellows, TC/carbon, EPDM	+32°F to +248°F (0°C to +120°C)
BUBV	Bellows, TC/carbon, FKM	+32°F to +194°F (0°C to +90°C)

CR, CRN 32, 45, 64 and 90



Shaft Seal	Description	Max. temp. range
KUUE	Seal with metal bellows (cartridge), TC/hybrid, EPDM	+32°F to +194°F (0°C to +90°C)
KUHV	Seal with metal bellows (cartridge), TC/hybrid, FKM	+32°F to +194°F (0°C to +90°C)
KUBE	Seal with metal bellows (cartridge), TC/carbon, EPDM	+32°F to +248°F (0°C to +120°C)
KUBV	Seal with metal bellows (cartridge), TC/carbon, FKM	+32°F to +194°F (0°C to +90°C)
KUUE	Seal with metal bellows (cartridge), TC/TC, EPDM	-22°F to +194°F (-30°C to +90°C)
KUUV	Seal with metal bellows (cartridge), TC/TC, FKM	-4°F to +194°F (-20°C to +90°C)
HUBE	O-ring (cartridge), (balanced seal), TC/carbon, EPDM	+32°F to +248°F (0°C to +120°C)
HUBV	O-ring (cartridge), (balanced seal), TC/carbon, FKM	+32°F to +194°F (0°C to +90°C)

Maximum inlet pressure

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

CR, CRI, CRN 1s, 1	psi /bar
1-2 → 1-4	87 /6
1-5 → 1-25	145/10
1-27	217/15
CR, CRI, CRN 3	
3-2	87 /6
3-3 → 3-15	145/10
3-17 → 3-25	217/15
CR, CRI, CRN 5	
5-2 → 5-8	145/10
5-9 → 5-24	217/15
CR, CRX, CRN 8	
8-20/1 → 8-40	87 /6
8-50 → 8-160	145/10
CR, CRX, CRN 16	
16-30/2 → 16-30	87 /6
16-40 → 16-120	145/10
CR, CRN 32	
32-1-1 → 32-1	43/3
32-2-2 → 32-2	58/4
32-3 → 32-5	145/10
32-6 → 11-2	217/15
CR, CRN 45	
45-1-1 → 45-1	58/4
45-2-2 → 45-3	145/10
45-4-2 → 8-1	217/15
CR, CRN 64	
64-1-1	58/4
64-1 → 64-2-1	145/10
64-2 → 64-5-2	217/15
CR, CRN 90	
90-1-1 → 90-1	145/10
90-2-2 → 90-4-2	217/15

Example of operating and inlet pressures

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

Example 1:

The following pump type has been selected:

CR 3-10 U-A-A

Max. operating pressure: 232 psi (16 bar)

Max. inlet pressure: 145 psi (10 bar)

Discharge pressure against a closed valve: 139 psi (9.6 bar), see page 32.

This pump is not allowed to start at an inlet pressure of 145 psi (10 bar), but on the other hand at an inlet pressure of 232 psi less 139 psi = 93 psi (16.0 less 9.6 = 6.4 bar).

Example 2:

The following pump type has been selected:

CR 3-2 U-A-A

Max. operating pressure: 232 psi (16 bar)

Max. inlet pressure: 87 psi (6 bar)

Discharge pressure against a closed valve: 27 psi (1.9 bar), see page 32.

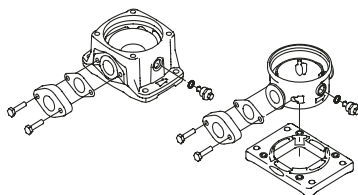
This pump is allowed to start at an inlet pressure of 87 psi (6 bar), as the discharge pressure against a closed valve is only 27 psi (1.9 bar), which results in an operating pressure of 87 psi + 27 psi = 114 psi (6.0 + 1.9 = 7.9 bar).

On the contrary, the max. operating pressure of this pump is limited to 144 psi (7.9 bar), as a higher operating pressure will require an inlet pressure of more than 87 psi (6 bar).

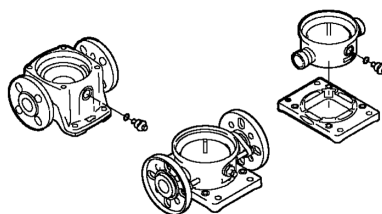
In case the inlet or operating pressure exceeds the pressure permitted, see Custom-built Pumps, page 80.

Maximum operating pressure and temperature range

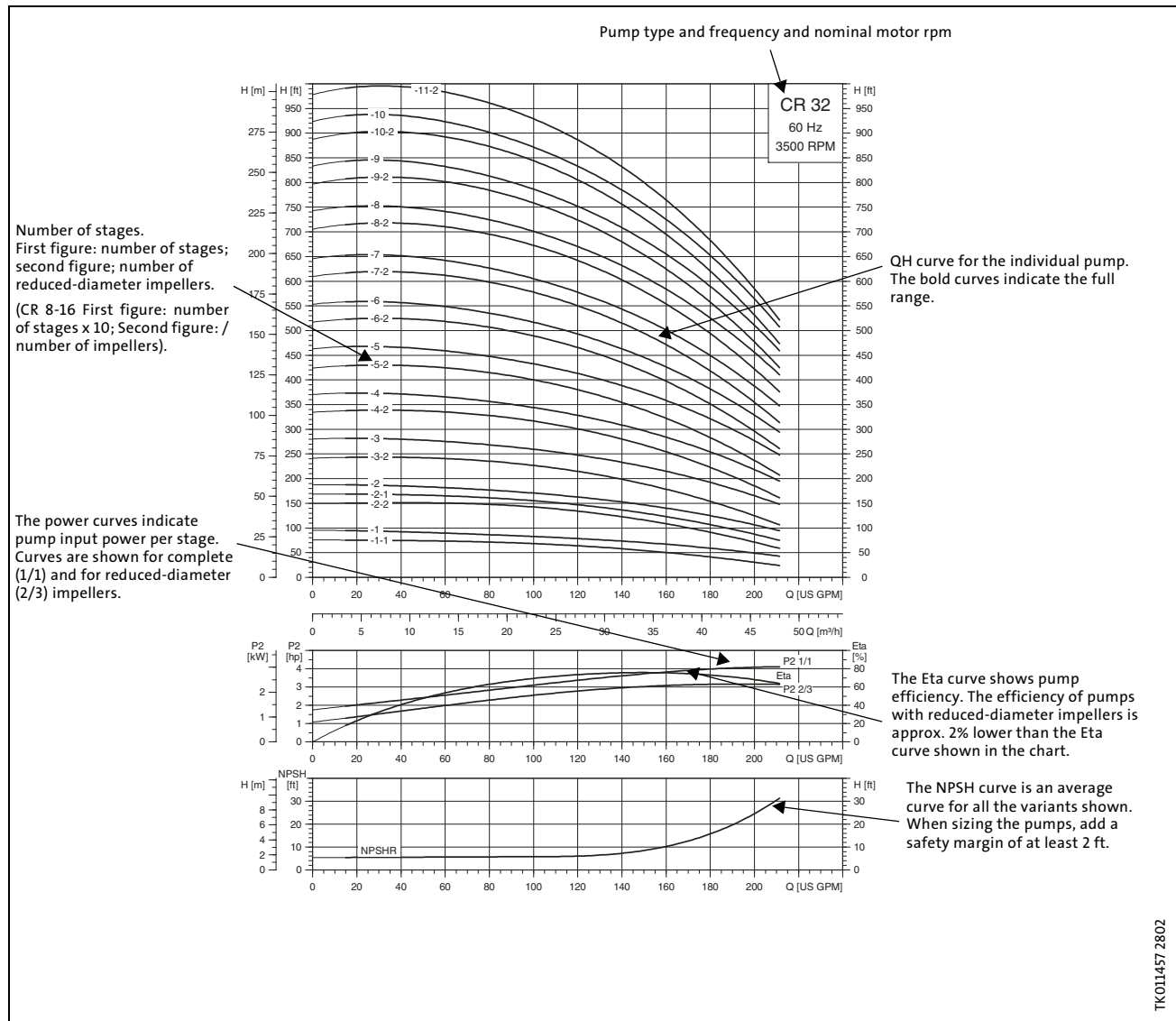
	Oval flange		FGJ, ANSI, PJE	
	Max. permissible operating pressure	Liquid temperature range	Max. permissible operating pressure	Liquid temperature range
CR, CRI, CRN 1	232 psi 16 (bar)	−4°F - +248°F −20°C - +120°C	362 psi (25 bar)	−4°F - +248°F −20°C - +120°C
CR, CRI, CRN 3	232 psi 16 (bar)	−4°F - +248°F −20°C - +120°C	362 psi (25 bar)	−4°F - +248°F −20°C - +120°C
CR, CRI, CRN 5	232 psi 16 (bar)	−4°F - +248°F −20°C - +120°C	362 psi (25 bar)	−4°F - +248°F −20°C - +120°C
CR, CRX, CRN 8			362 psi (25 bar)	−4°F - +248°F −20°C - +120°C
CR, CRX, CRN 16			362 psi (25 bar)	−4°F - +248°F −20°C - +120°C
CR, CRN 32-1-1 → CR, CRN 32-5			232 psi (16 bar)	−22°F - +248°F −30°C - +120°C
CR, CRN 32-6-2 → CR, CRN 32-8			362 psi (25 bar)	−22°F - +248°F −30°C - +120°C
CR, CRN 32-9-2 → CR, CRN 32-11-2			580 psi (40 bar)	−22°F - +248°F −30°C - +120°C
CR, CRN 45-1-1 → CR, CRN 45-4			232 psi (16 bar)	−22°F - +248°F −30°C - +120°C
CR, CRN 45-5-2 → CR, CRN 45-6			362 psi (25 bar)	−22°F - +248°F −30°C - +120°C
CR, CRN 45-7-2 → CR, CRN 45-8-1			580 psi (40 bar)	−22°F - +248°F −30°C - +120°C
CR, CRN 64-1-1 → CR, CRN 64-3			232 psi (16 bar)	−22°F - +248°F −30°C - +120°C
CR, CRN 64-4-2 → CR, CRN 64-5-2			362 psi (25 bar)	−2°F - +248°F −30°C - +120°C
CR, CRN 90-1-1 → CR, CRN 90-3			232 psi (16 bar)	−22°F - +248°F −30°C - +120°C
CR, CRN 90-4-2			362 psi (25 bar)	−22°F - +248°F −30°C - +120°C



TM02 1379 1101



TK02 1383

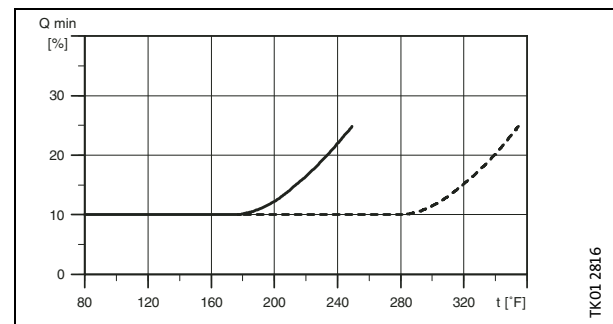


Performance curves

The guidelines below apply to the curves shown on the following pages:

1. The motors used for the measurements are standard Grundfos specified motors.
2. Performance may vary based on motor selection.
3. Measurements have been made with airless water at a temperature of +68°F (+20°C).
4. The curves apply to a kinematic viscosity of $\nu = 1 \text{ cSt (mm}^2/\text{s)}$.
5. Due to the risk of overheating, the pumps should not be used at a flow below the minimum flow rate.

The curve below shows the minimum flow rate as a percentage of the nominal flow rate in relation to the liquid temperature. The dashed curve represents a pump fitted with a Cool-Top® air-cooled shaft seal (see Custom-built pumps, page 80).

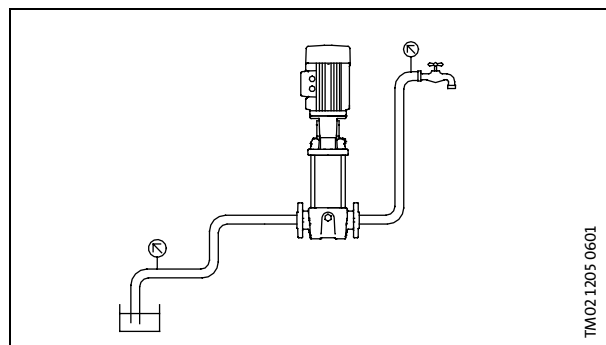


Selection of CR, CRI, CRX, CRN pumps

Pump size

Selection of pump size should be based on:

- Required flow and pressure at the draw-off point.
- Pressure loss as a result of height differences.
- Friction loss in the pipework.
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.

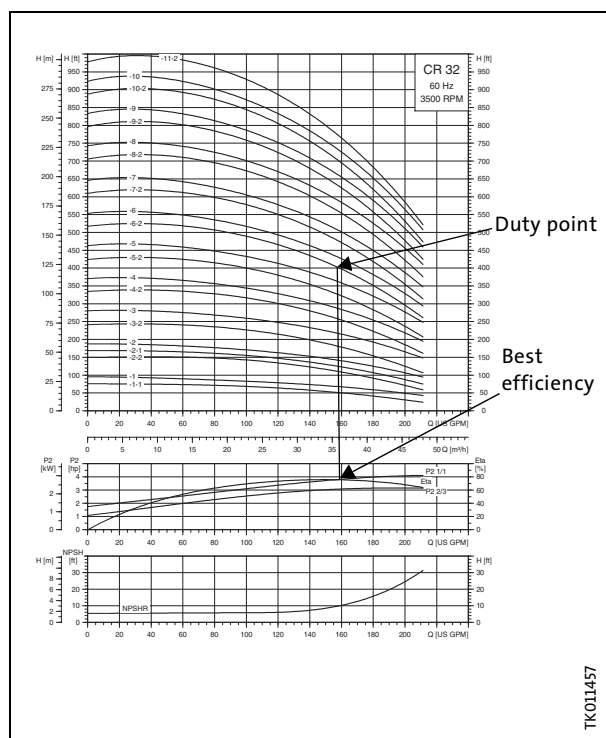


TM02 1205 0601

Efficiency

If the pump is expected always to operate at the same duty point, select a pump which is operating at a duty point corresponding with the best efficiency of the pump.

In case of controlled operation or varying consumption, select a pump which best efficiency falls within the duty range representing the highest power consumption, i.e. typically the duty range covering the greater part of the duty time.

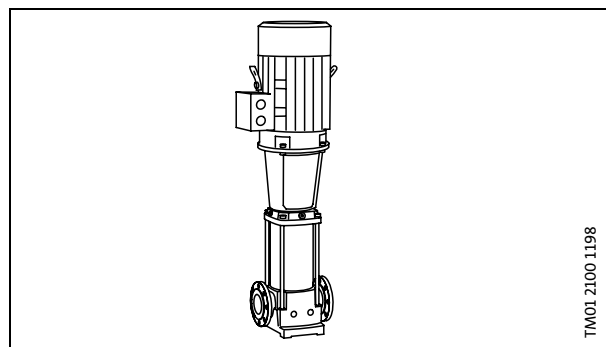


Material

The material variant (CR, CRI, CRX, CRN) should be selected on the basis of the liquid to be pumped. The product range covers three basic types.

- The CR, CRI, CRX pump types are suitable for clean, non-aggressive liquids such as potable water, oils, etc.
- The CRN pump type is suitable for industrial liquids (see "List of pumped liquids", page 74.)

For saline or chloride-containing liquids such as sea water, CRT pumps of titanium are available. See separate data booklet on CRT.

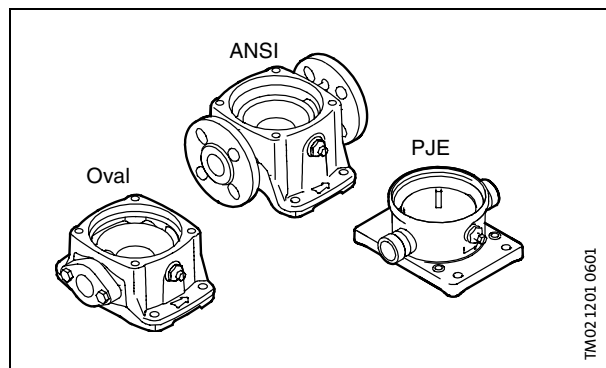


TM01 2100 1198

Pump connection

Selection of pump connection depends on rated pressure and pipework. To meet any requirement the CR, CRI, CRX and CRN pumps offer a wide range of flexible connections such as:

- oval flange NPT
- ANSI flange
- PJE coupling
- FlexiClamp
- other connections on request.



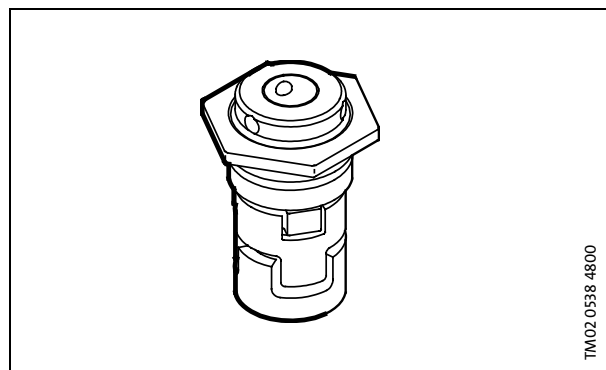
Shaft seal

As standard, the CR range is fitted with a Grundfos shaft seal suitable for the most common applications.

The following three key parameters must be taken into account, when selecting the shaft seal:

- type of pumped liquid
- liquid temperature and
- maximum pressure.

Grundfos offers a wide range of shaft seal variants to meet specific demands (see "List of pumped liquids", page 74).

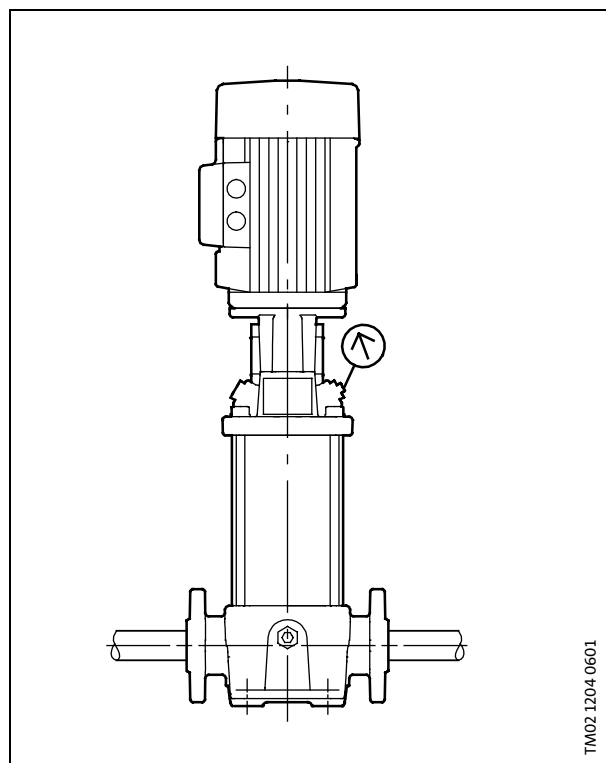


Inlet pressure and operating pressure

It should be checked whether the pressure conditions are fulfilled.

The limit values stated on pages 14-15 must not be exceeded as regards ...

- maximum inlet pressure
- maximum operating pressure.



Minimum inlet pressure - NPSH

Calculation of the inlet pressure “H” is recommended when ...

- the liquid temperature is high
- the flow is significantly higher than the rated flow
- water is drawn from depths
- water is drawn through long pipes
- inlet conditions are poor.

To avoid cavitation, make sure that there is a minimum pressure on the suction side of the pump. The maximum suction lift “H” in feet of head can be

calculated as follows:

$$H = PB - NPSHR - H_f - H_s - H_v$$

PB = Barometric pressure in feet absolute.
(Barometric pressure can be set to 33.9 ft at sea level).
In closed systems, PB indicates the system pressure in feet.

NPSHR = Net Positive Suction Head in feet of head.
(To be read from the NPSHR curve at the highest flow the pump will be delivering).

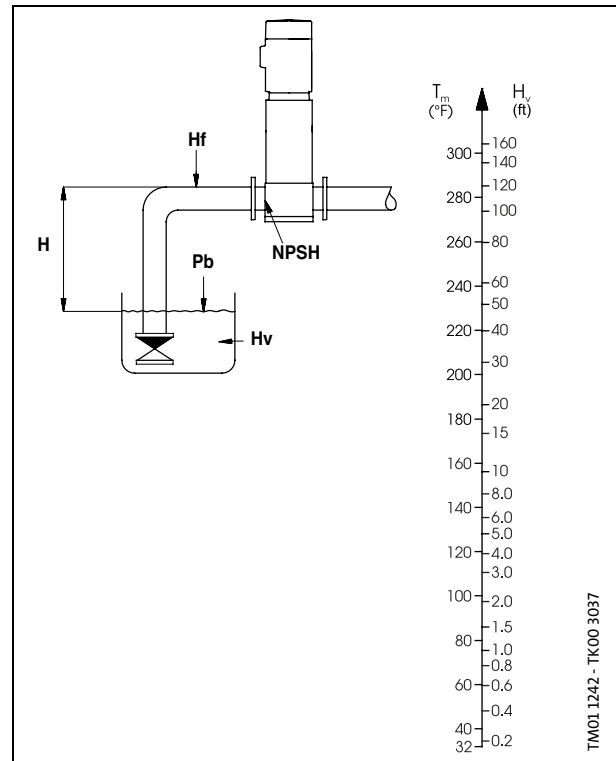
H_f = Friction loss in suction pipe in feet of head. (At the highest flow the pump will be delivering.)

H_v = Vapor pressure in feet of head.
(To be read from the vapor pressure scale. “H_v” depends on the liquid temperature “T_m”).

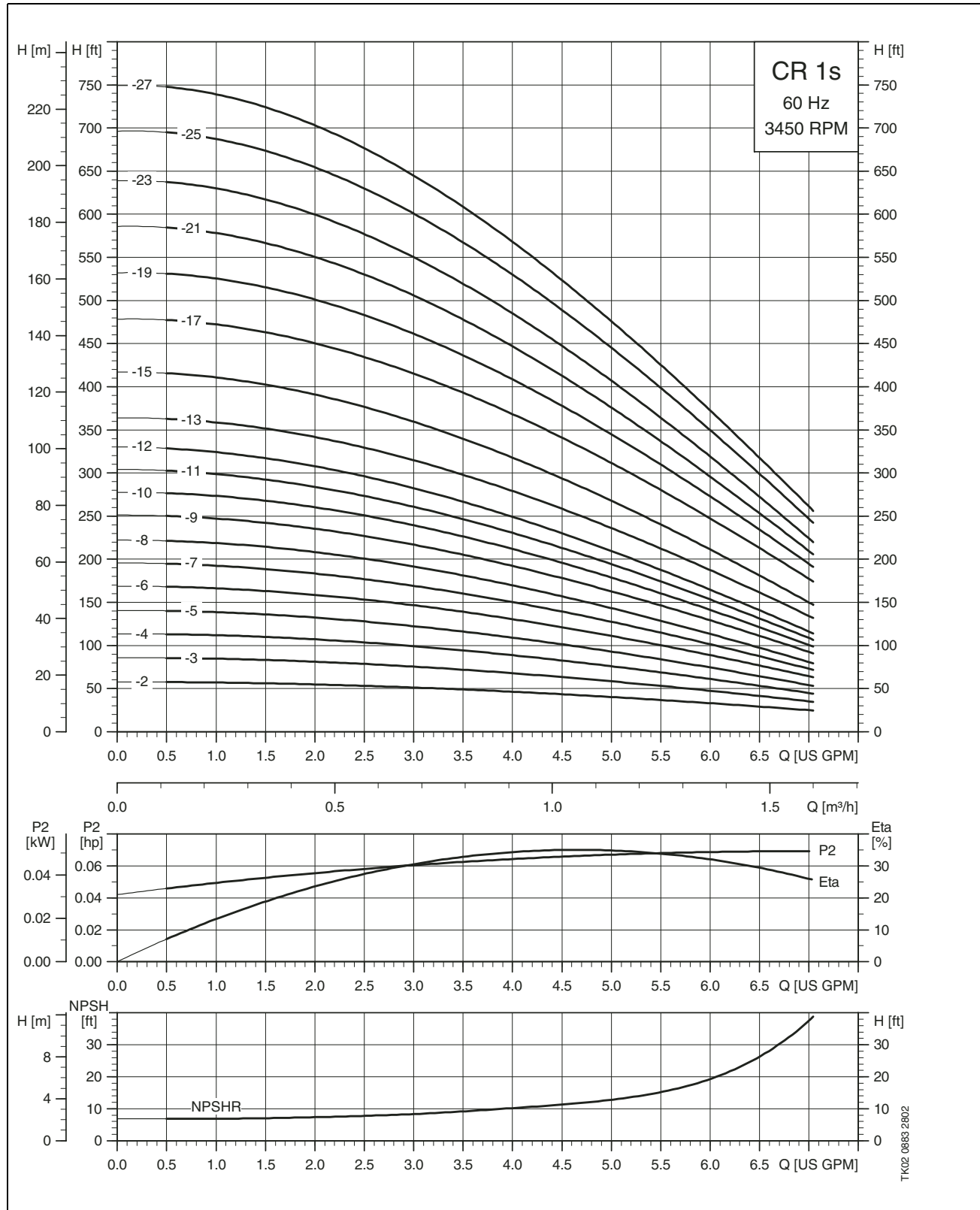
H_s = Safety margin = minimum 1-1/2 feet of head.

If the “H” calculated is positive, the pump can operate at a suction lift of maximum “H” feet of head.

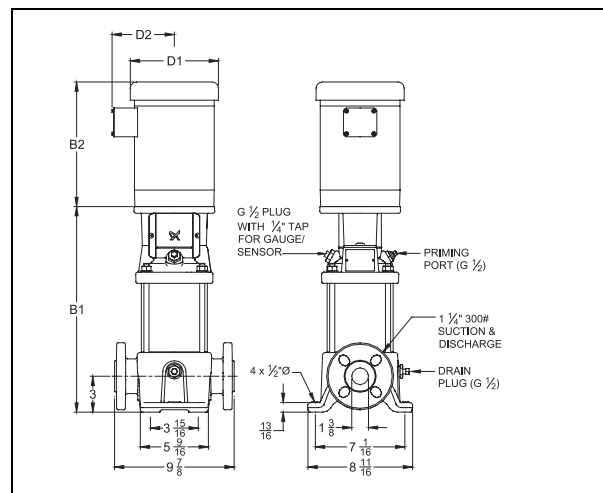
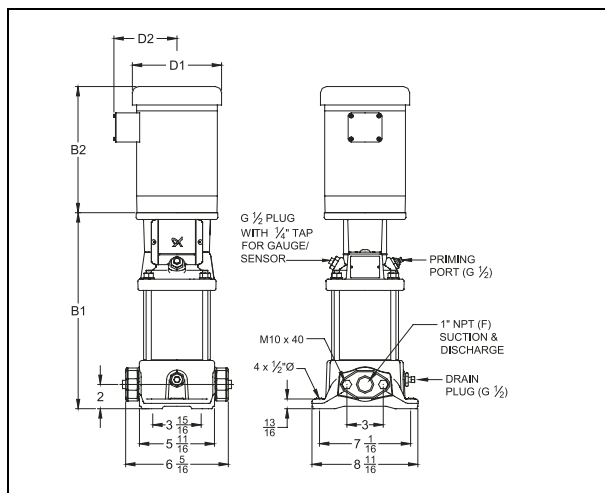
If the “H” calculated is negative, an inlet pressure of minimum “H” feet of head is required.



Check that the pump is not and will not be exposed to cavitation.



Dimensional sketches

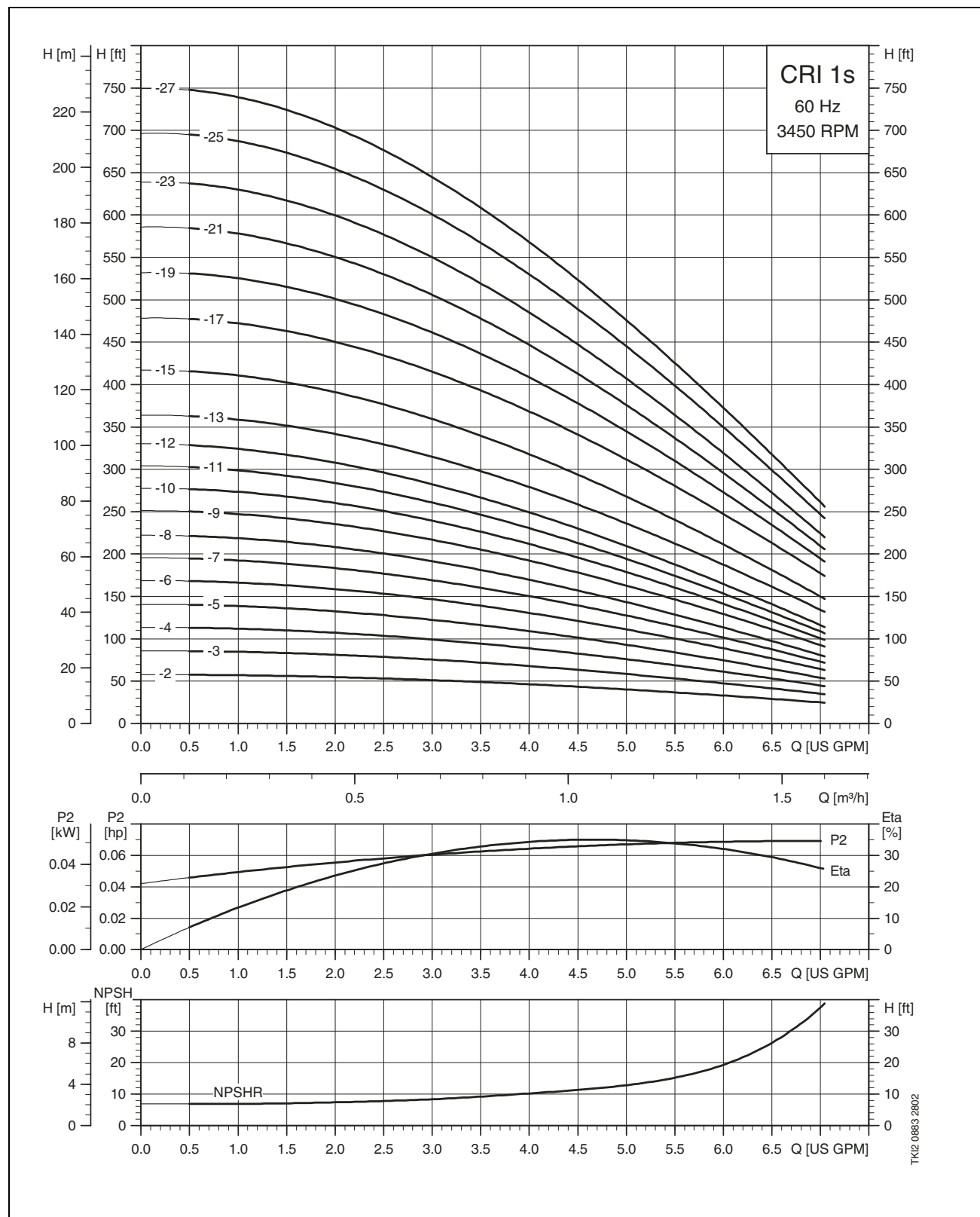


Dimensions and weights

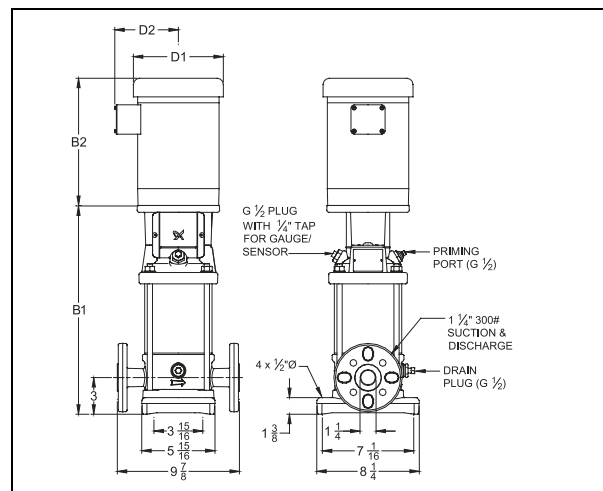
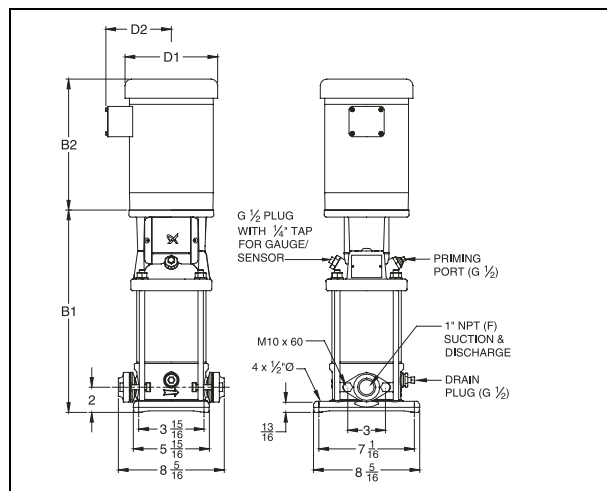
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	Oval B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	Oval ODP B1+B2	Oval TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft ³]	ANSI Ship Vol. ¹ [ft ³]
CR 1s-2	1/3	1	115/230	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	53.0	62.0	1.8	1.8
		3	208-230/460	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	53.0	62.0	1.8	1.8
CR 1s-3	1/3	1	115/230	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	53.0	62.0	1.8	1.8
		3	208-230/460	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	53.0	62.0	1.8	1.8
CR 1s-4	1/3	1	115/230	56C	11 3/4	12 3/4	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21	21 1/8	22	22 1/8	53.6	62.6	1.8	1.8
		3	208-230/460	56C	11 3/4	12 3/4	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21	21 1/8	22	22 1/8	53.6	62.6	1.8	1.8
CR 1s-5	1/3	1	115/230	56C	12 1/2	13 3/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 3/4	21 7/8	22 5/8	22 3/4	54.2	63.2	1.8	1.8
		3	208-230/460	56C	12 1/2	13 3/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 3/4	21 7/8	22 5/8	22 3/4	54.2	63.2	1.8	1.8
CR 1s-6	1/2	1	115/208-230	56C	13 1/8	14 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22 3/8	22 1/2	23 3/8	23 1/2	53.9	62.9	1.8	1.8
		3	208-230/460	56C	13 1/8	14 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22 3/8	22 1/2	23 3/8	23 1/2	53.9	62.9	1.8	1.8
CR 1s-7	1/2	1	115/208-230	56C	13 7/8	14 7/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	23 1/8	23 1/4	24 1/8	24 1/4	55.2	64.2	1.8	1.8
		3	208-230/460	56C	13 7/8	14 7/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	23 1/8	23 1/4	24 1/8	24 1/4	55.2	64.2	1.8	1.8
CR 1s-8	1/2	1	115/208-230	56C	14 5/8	15 1/2	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	23 7/8	24	24 3/4	24 7/8	57.0	66.0	1.8	1.8
		3	208-230/460	56C	14 5/8	15 1/2	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	23 7/8	24	24 3/4	24 7/8	57.0	66.0	1.8	1.8
CR 1s-9	3/4	1	115/208-230	56C	15 1/4	16 1/4	11	6 1/4	4 1/2	10	6 1/4	4 5/8	26 1/4	25 1/4	27 1/4	26 1/4	59.6	69.7	1.8	2.1
		3	208-230/460	56C	15 1/4	16 1/4	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	25 1/2	24 5/8	26 1/2	25 5/8	59.6	69.7	1.8	2.1
CR 1s-10	3/4	1	115/208-230	56C	16	17	11	6 1/4	4 1/2	10	6 1/4	4 5/8	26	26	27	26	60.7	70.8	1.8	2.1
		3	208-230/460	56C	16	17	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	26 1/4	25 3/8	27 1/4	26 3/8	60.7	70.8	1.8	2.1
CR 1s-11	3/4	1	115/208-230	56C	16 3/4	17 5/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	27 3/4	26 3/4	28 5/8	27 5/8	62.9	73.0	2.1	2.7
		3	208-230/460	56C	16 3/4	17 5/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	27	26 1/8	27 7/8	27	62.9	73.0	2.1	2.7
CR 1s-12	3/4	1	115/208-230	56C	17 3/8	18 3/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	28 3/8	27 3/8	29 3/8	28 3/8	65.1	74.1	2.7	2.7
		3	208-230/460	56C	17 3/8	18 3/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	27 5/8	26 3/4	28 5/8	27 3/4	65.1	74.1	2.7	2.7
CR 1s-13	1	1	115/208-230*	56C	18 1/8	19 1/8	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	29 3/8	29 3/8	30 3/8	30 3/8	67.5	76.5	2.7	2.7
		3	208-230/460	56C	18 1/8	19 1/8	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	28 3/8	28 3/8	29 3/8	29 3/8	67.5	76.5	2.7	2.7
CR 1s-15	1	1	115/208-230*	56C	19 1/2	20 1/2	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	30 3/4	30 3/4	31 3/4	31 3/4	68.6	77.7	2.7	2.7
		3	208-230/460	56C	19 1/2	20 1/2	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	29 3/4	29 3/4	30 3/4	30 3/4	68.6	77.7	2.7	2.7
CR 1s-17	1 1/2	1	115/208-230	56C	21	21 7/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	32 3/4	32 3/4	33 5/8	33 5/8	75.9	84.9	2.7	2.7
		3	208-230/460	56C	21	21 7/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	31 3/4	31 3/4	32 5/8	32 5/8	75.9	84.9	2.7	2.7
CR 1s-19	1 1/2	1	115/208-230	56C		23 3/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			35 1/8	35 1/8		86.5		2.7
		3	208-230/460	56C		23 3/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4			34 1/8	34 1/8		86.5		2.7
CR 1s-21	1 1/2	1	115/208-230	56C		24 3/4	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			36 1/2	36 1/2		88.2		2.7
		3	208-230/460	56C		24 3/4	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4			35 1/2	35 1/2		88.2		2.7
CR 1s-23	1 1/2	1	115/208-230	56C		26 1/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			37 7/8	37 7/8		90.1		2.7
		3	208-230/460	56C		26 1/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4			36 7/8	36 7/8		90.1		2.7
CR 1s-25	2	1	115/208-230*	56C		27 5/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4			39 3/8	40 1/4		97.3		2.7
		3	208-230/460	56C		27 5/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			38 3/8	39 3/8		97.3		2.7
CR 1s-27	2	1	115/208-230*	56C		29	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4			40 3/4	41 5/8		99.5		3.8
		3	208-230/460	56C		29	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			39 3/4	40 3/4		99.5		3.8

* TEFC voltage is 115/230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

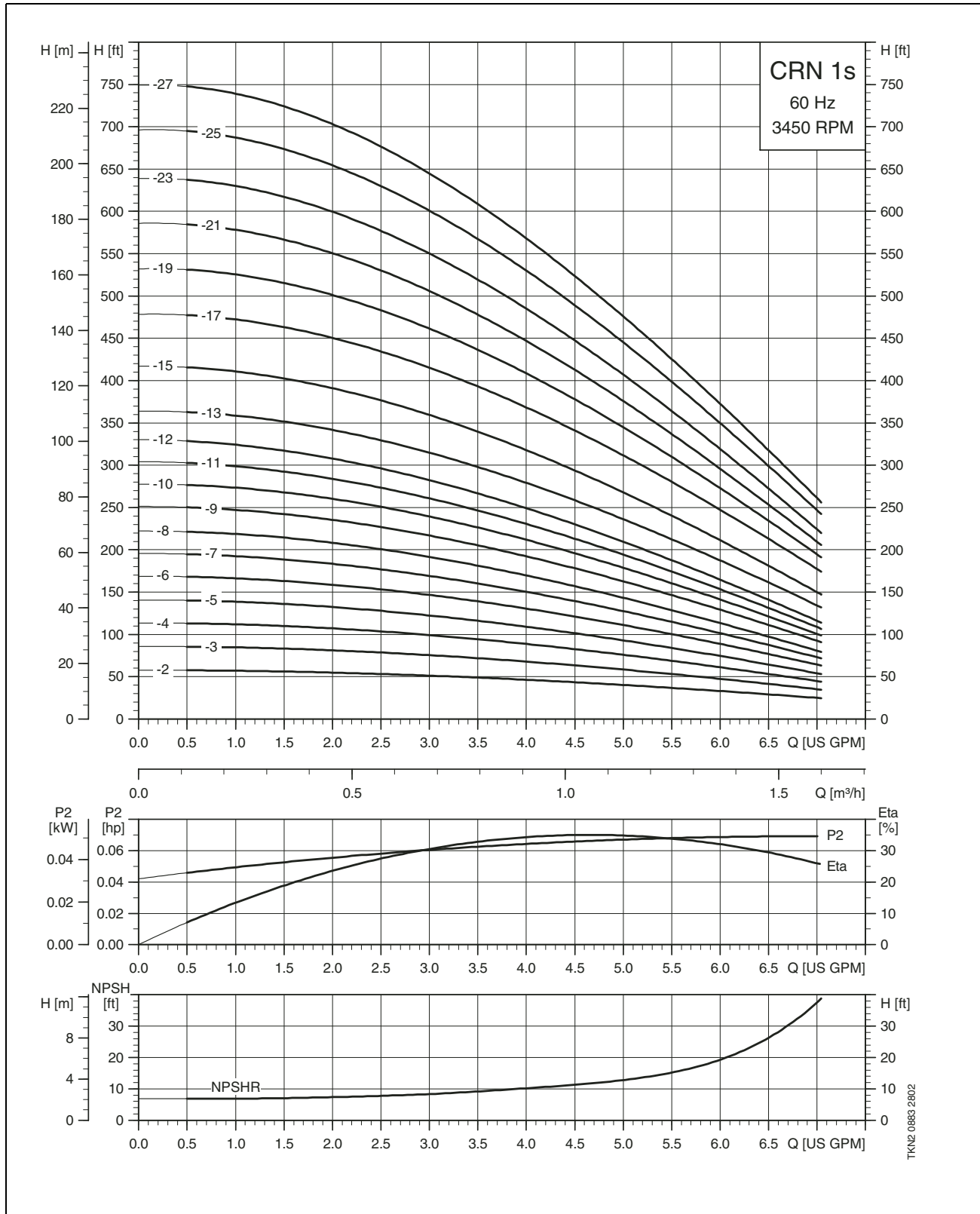


Dimensions and weights

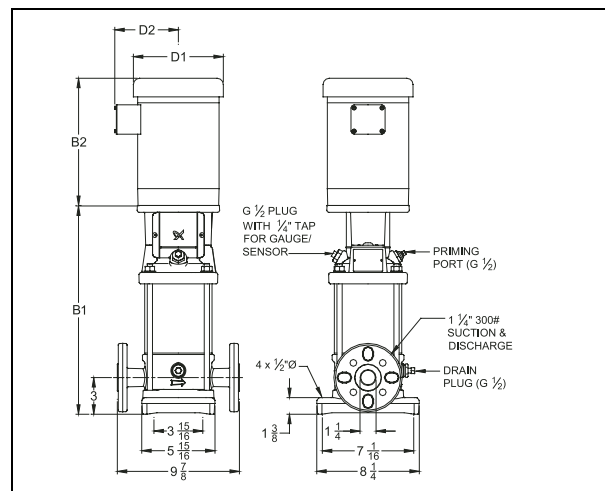
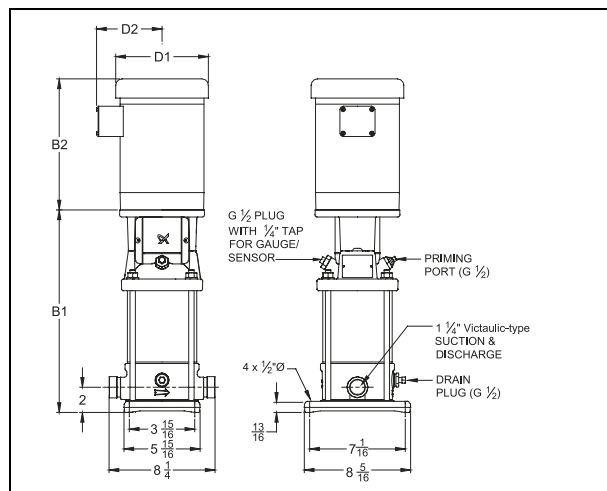
Pump Type	HP	PH	Voltage	NEMA Frame Size	Oval B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	Oval ODP B1+B2	Oval TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft ³]	ANSI Ship Vol. ¹ [ft ³]
CRI 1s-2	1/3	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.2	54.8	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.2	54.8	1.8	1.8
CRI 1s-3	1/3	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.2	54.8	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.2	54.8	1.8	1.8
CRI 1s-4	1/3	1	115/230	56C	11 7/8	12 7/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 1/8	21 1/4	22 1/8	22 1/4	46.8	55.4	1.8	1.8
		3	208-230/460	56C	11 7/8	12 7/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 1/8	21 1/4	22 1/8	22 1/4	46.8	55.4	1.8	1.8
CRI 1s-5	1/3	1	115/230	56C	12 5/8	13 1/2	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 7/8	22	22 3/4	22 7/8	47.4	55.9	1.8	1.8
		3	208-230/460	56C	12 5/8	13 1/2	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 7/8	22	22 3/4	22 7/8	47.4	55.9	1.8	1.8
CRI 1s-6	1/2	1	115/208-230	56C	13 1/4	14 1/4	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22 1/2	22 5/8	23 1/2	23 5/8	47.1	55.7	1.8	1.8
		3	208-230/460	56C	13 1/4	14 1/4	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22 1/2	22 5/8	23 1/2	23 5/8	47.1	55.7	1.8	1.8
CRI 1s-7	1/2	1	115/208-230	56C	14	15	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	23 1/4	23 3/8	24 1/4	24 3/8	48.4	57.0	1.8	1.8
		3	208-230/460	56C	14	15	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	23 1/4	23 3/8	24 1/4	24 3/8	48.4	57.0	1.8	1.8
CRI 1s-8	1/2	1	115/208-230	56C	14 3/4	15 5/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	24	24 1/8	24 7/8	25	50.2	58.7	1.8	1.8
		3	208-230/460	56C	14 3/4	15 5/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	24	24 1/8	24 7/8	25	50.2	58.7	1.8	1.8
CRI 1s-9	3/4	1	115/208-230	56C	15 3/8	16 3/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	26 3/8	25 3/8	27 3/8	26 3/8	52.8	62.5	1.8	2.1
		3	208-230/460	56C	15 3/8	16 3/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	25 5/8	25 5/8	26 5/8	25 3/4	52.8	62.5	1.8	2.1
CRI 1s-10	3/4	1	115/208-230	56C	16 1/8	17 1/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	27 1/8	27 1/8	28 1/8	27 1/8	53.9	64.7	1.8	2.7
		3	208-230/460	56C	16 1/8	17 1/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	26 3/8	26 3/8	27 3/8	26 1/2	53.9	64.7	1.8	2.7
CRI 1s-11	3/4	1	115/208-230	56C	16 7/8	17 3/4	11	6 1/4	4 1/2	10	6 1/4	4 5/8	27 7/8	27 7/8	28 3/4	27 3/4	56.1	65.8	2.1	2.7
		3	208-230/460	56C	16 7/8	17 3/4	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	27 1/8	27 1/8	28	27 1/8	56.1	65.8	2.1	2.7
CRI 1s-12	3/4	1	115/208-230	56C	17 1/2	18 1/2	11	6 1/4	4 1/2	10	6 1/4	4 5/8	28 1/2	28 1/2	29 1/2	28 1/2	58.3	66.9	2.7	2.7
		3	208-230/460	56C	17 1/2	18 1/2	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	27 3/4	27 3/4	28 3/4	27 7/8	58.3	66.9	2.7	2.7
CRI 1s-13	1	1	115/208-230*	56C	18 1/4	19 1/4	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	29 1/2	29 1/2	30 1/2	30 1/2	60.7	69.2	2.7	2.7
		3	208-230/460	56C	18 1/4	19 1/4	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	28 1/2	28 1/2	29 1/2	29 1/2	60.7	69.2	2.7	2.7
CRI 1s-15	1	1	115/208-230*	56C	19 5/8	20 5/8	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	30 7/8	30 7/8	31 7/8	31 7/8	61.8	70.4	2.7	2.7
		3	208-230/460	56C	19 5/8	20 5/8	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	29 7/8	29 7/8	30 7/8	30 7/8	61.8	70.4	2.7	2.7
CRI 1s-17	1 1/2	1	115/208-230	56C	21 1/8	22	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	32 7/8	32 7/8	33 3/4	33 3/4	69.1	77.7	2.7	2.7
		3	208-230/460	56C	21 1/8	22	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	31 7/8	31 7/8	32 3/4	32 3/4	69.1	77.7	2.7	2.7
CRI 1s-19	1 1/2	1	115/208-230	56C		23 1/2	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			35 1/4	35 1/4				2.7
		3	208-230/460	56C		23 1/2	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4			34 1/4	34 1/4				2.7
CRI 1s-21	1 1/2	1	115/208-230	56C		24 7/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			36 5/8	36 5/8				2.7
		3	208-230/460	56C		24 7/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4			35 5/8	35 5/8				2.7
CRI 1s-23	1 1/2	1	115/208-230	56C		26 1/4	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			38	38				2.7
		3	208-230/460	56C		26 1/4	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4			37	37				2.7
CRI 1s-25	2	1	115/208-230*	56C		27 3/4	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4			39 1/2	40 3/8				2.7
		3	208-230/460	56C		27 3/4	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			38 1/2	39 1/2				2.7
CRI 1s-27	2	1	115/208-230*	56C		29 1/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4			40 7/8	41 3/4				3.8
		3	208-230/460	56C		29 1/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			39 7/8	40 7/8				3.8

* TEFC voltage is 115/230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

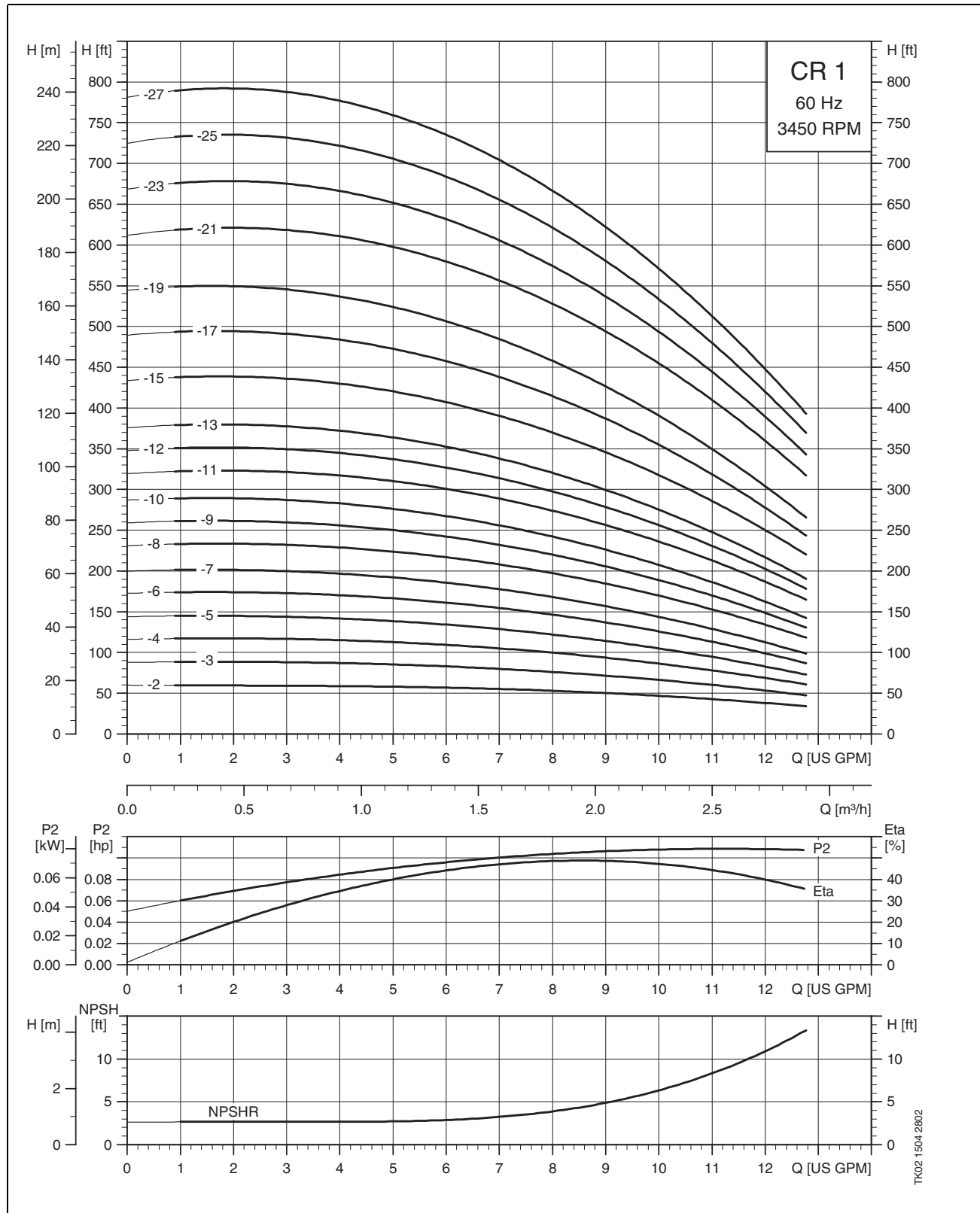


Dimensions and weights

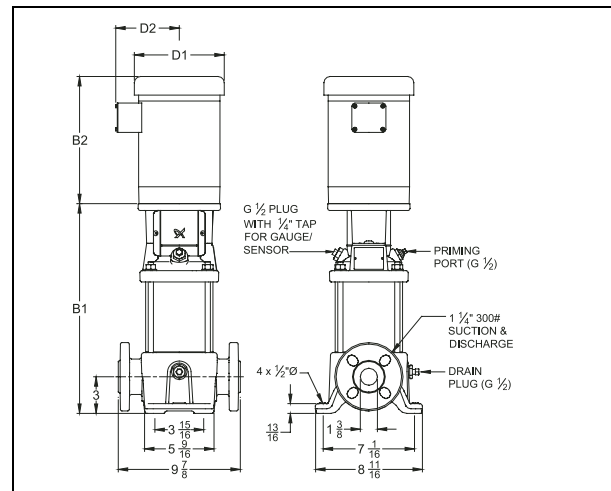
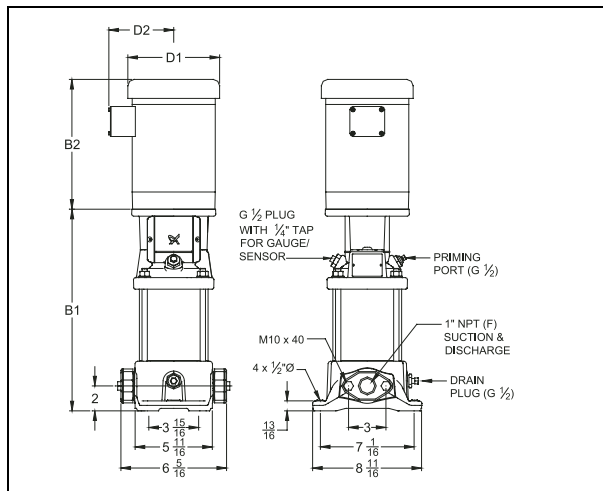
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	PJE B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	PJE ODP B1+B2	PJE TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft ³]	ANSI Ship Vol. ¹ [ft ³]
CRN 1s-2	1/3	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.9	54.8	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.9	54.8	1.8	1.8
CRN 1s-3	1/3	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.9	54.8	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.9	54.8	1.8	1.8
CRN 1s-4	1/3	1	115/230	56C	11 7/8	12 7/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 1/8	21 1/4	22 1/8	22 1/4	47.5	55.4	1.8	1.8
		3	208-230/460	56C	11 7/8	12 7/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 1/8	21 1/4	22 1/8	22 1/4	47.5	55.4	1.8	1.8
CRN 1s-5	1/3	1	115/230	56C	12 5/8	13 1/2	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 7/8	22	22 3/4	22 7/8	48.0	55.9	1.8	1.8
		3	208-230/460	56C	12 5/8	13 1/2	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 7/8	22	22 3/4	22 7/8	48.0	55.9	1.8	1.8
CRN 1s-6	1/2	1	115/208-230	56C	13 1/4	14 1/4	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22 1/2	22 5/8	23 1/2	23 5/8	47.7	55.7	1.8	1.8
		3	208-230/460	56C	13 1/4	14 1/4	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22 1/2	22 5/8	23 1/2	23 5/8	47.7	55.7	1.8	1.8
CRN 1s-7	1/2	1	115/208-230	56C	14	15	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	23 1/4	23 3/8	24 1/4	24 3/8	49.1	57.0	1.8	1.8
		3	208-230/460	56C	14	15	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	23 1/4	23 3/8	24 1/4	24 3/8	49.1	57.0	1.8	1.8
CRN 1s-8	1/2	1	115/208-230	56C	14 3/4	15 5/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	24	24 1/8	24 7/8	25	50.8	58.7	1.8	1.8
		3	208-230/460	56C	14 3/4	15 5/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	24	24 1/8	24 7/8	25	50.8	58.7	1.8	1.8
CRN 1s-9	3/4	1	115/208-230	56C	15 3/8	16 3/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	26 3/8	25 3/8	27 3/8	26 3/8	53.5	62.5	1.8	2.1
		3	208-230/460	56C	15 3/8	16 3/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	26 3/8	25 3/8	27 3/8	26 3/8	53.5	62.5	1.8	2.1
CRN 1s-10	3/4	1	115/208-230	56C	16 1/8	17 1/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	27 1/8	26 1/8	28 1/8	27 1/8	54.6	64.7	1.8	2.7
		3	208-230/460	56C	16 1/8	17 1/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	26 3/8	25 1/2	27 3/8	26 1/2	54.6	64.7	1.8	2.7
CRN 1s-11	3/4	1	115/208-230	56C	16 7/8	17 3/4	11	6 1/4	4 1/2	10	6 1/4	4 5/8	27 7/8	26 7/8	28 3/4	27 3/4	56.8	65.8	2.1	2.7
		3	208-230/460	56C	16 7/8	17 3/4	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	27 1/8	26 1/4	28	27 1/8	56.8	65.8	2.1	2.7
CRN 1s-12	3/4	1	115/208-230	56C	17 1/2	18 1/2	11	6 1/4	4 1/2	10	6 1/4	4 5/8	28 1/2	27 1/2	29 1/2	28 1/2	59.0	66.9	2.7	2.7
		3	208-230/460	56C	17 1/2	18 1/2	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	27 3/4	26 7/8	28 3/4	27 7/8	59.0	66.9	2.7	2.7
CRN 1s-13	1	1	115/208-230*	56C	18 1/4	19 1/4	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	29 1/2	29 1/2	30 1/2	30 1/2	61.3	69.2	2.7	2.7
		3	208-230/460	56C	18 1/4	19 1/4	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	28 1/2	28 1/2	29 1/2	29 1/2	61.3	69.2	2.7	2.7
CRN 1s-15	1	1	115/208-230*	56C	19 5/8	20 5/8	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	30 7/8	30 7/8	31 7/8	31 7/8	62.5	70.4	2.7	2.7
		3	208-230/460	56C	19 5/8	20 5/8	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	29 7/8	29 7/8	30 7/8	30 7/8	62.5	70.4	2.7	2.7
CRN 1s-17	1 1/2	1	115/208-230	56C	21 1/8	22	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	32 7/8	32 7/8	33 3/4	33 3/4	69.7	77.7	2.7	2.7
		3	208-230/460	56C	21 1/8	22	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	31 7/8	31 7/8	32 3/4	32 3/4	69.7	77.7	2.7	2.7
CRN 1s-19	1 1/2	1	115/208-230	56C	22 1/2	23 1/2	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	34 1/4	34 1/4	35 1/4	35 1/4	71.3	79.2	2.7	2.7
		3	208-230/460	56C	22 1/2	23 1/2	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	33 1/4	33 1/4	34 1/4	34 1/4	71.3	79.2	2.7	2.7
CRN 1s-21	1 1/2	1	115/208-230	56C	23 7/8	24 7/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	35 5/8	35 5/8	36 5/8	36 5/8	73.1	81.0	2.7	2.7
		3	208-230/460	56C	23 7/8	24 7/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	34 5/8	34 5/8	35 5/8	35 5/8	73.1	81.0	2.7	2.7
CRN 1s-23	1 1/2	1	115/208-230	56C	25 3/8	26 1/4	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	37 1/8	37 1/8	38	38	74.9	82.8	2.7	2.7
		3	208-230/460	56C	25 3/8	26 1/4	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	36 1/8	36 1/8	37	37	74.9	82.8	2.7	2.7
CRN 1s-25	2	1	115/208-230*	56C	26 3/4	27 3/4	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	38 1/2	39 3/8	39 1/2	40 3/8	82.1	90.0	2.7	2.7
		3	208-230/460	56C	26 3/4	27 3/4	10 3/4	6 1/4	4 1/2	11 3/4	7 1/4	5 1/4	37 1/2	38 1/2	38 1/2	39 1/2	82.1	90.0	2.7	2.7
CRN 1s-27	2	1	115/208-230*	56C	28 1/8	29 1/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	39 7/8	40 3/4	40 7/8	41 3/4	83.2	92.3	2.7	3.8
		3	208-230/460	56C	28 1/8	29 1/8	10 3/4	6 1/4	4 1/2	11 3/4	7 1/4	5 1/4	38 7/8	39 7/8	39 7/8	40 7/8	83.2	92.3	2.7	3.8

* TEFC voltage is 115/230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

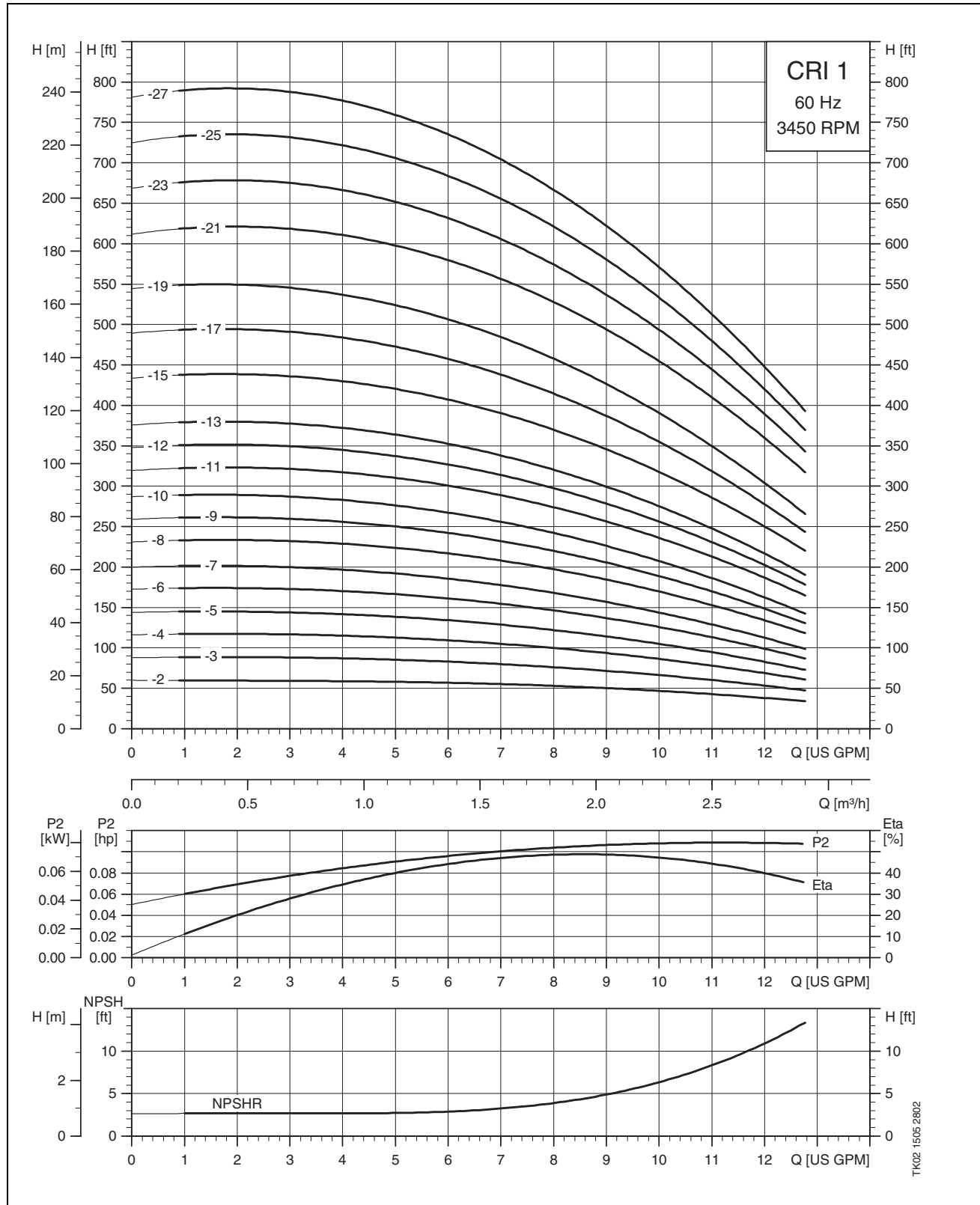


Dimensions and weights

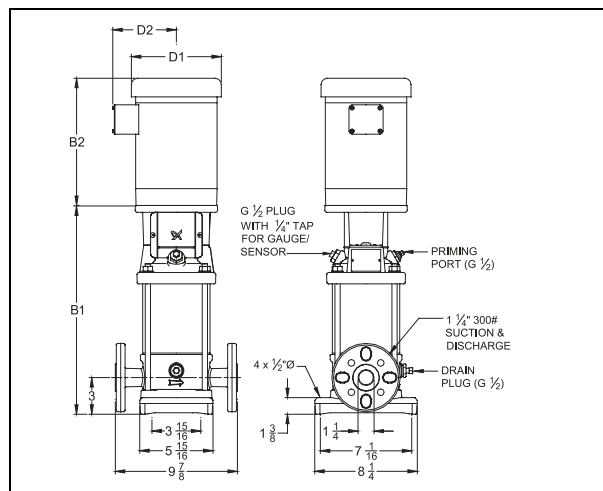
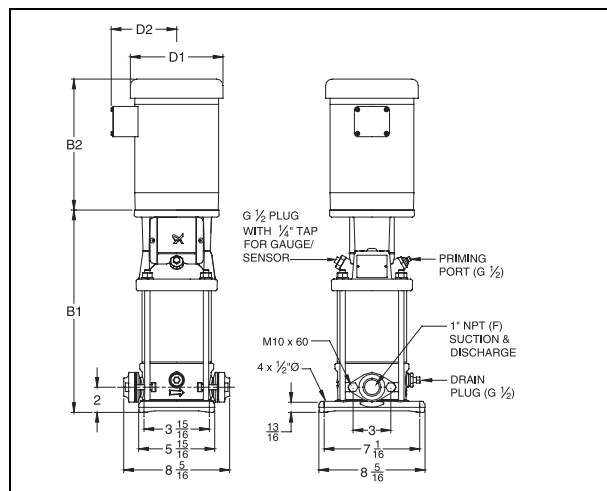
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	Oval B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	Oval ODP B1+B2	Oval TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft ³]	ANSI Ship Vol. ¹ [ft ³]
CR 1-2	1/3	1	115/230	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	53.0	62.0	1.8	1.8
		3	208-230/460	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	53.0	62.0	1.8	1.8
CR 1-3	1/3	1	115/230	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	53.0	62.0	1.8	1.8
		3	208-230/460	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	53.0	62.0	1.8	1.8
CR 1-4	1/2	1	115/208-230	56C	11 3/4	12 3/4	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21	21 1/8	22	22 1/8	52.7	61.8	1.8	1.8
		3	208-230/460	56C	11 3/4	12 3/4	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21	21 1/8	22	22 1/8	52.7	61.8	1.8	1.8
CR 1-5	1/2	1	115/208-230	56C	12 1/2	13 3/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 3/4	21 7/8	22 5/8	22 3/4	53.3	62.3	1.8	1.8
		3	208-230/460	56C	12 1/2	13 3/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 3/4	21 7/8	22 5/8	22 3/4	53.3	62.3	1.8	1.8
CR 1-6	3/4	1	115/208-230	56C	13 1/8	14 1/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	24 1/8	23 1/8	25 1/8	24 1/8	55.7	64.7	1.8	1.8
		3	208-230/460	56C	13 1/8	14 1/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	23 3/8	22 1/2	24 3/8	23 1/2	55.7	64.7	1.8	1.8
CR 1-7	3/4	1	115/208-230	56C	13 7/8	14 7/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	24 7/8	23 7/8	25 7/8	24 7/8	57.0	66.0	1.8	1.8
		3	208-230/460	56C	13 7/8	14 7/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	24 1/8	23 1/4	25 1/8	24 1/4	57.0	66.0	1.8	1.8
CR 1-8	1	1	115/208-230*	56C	14 5/8	15 1/2	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	25 7/8	25 7/8	26 3/4	26 3/4	60.5	69.5	1.8	1.8
		3	208-230/460	56C	14 5/8	15 1/2	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	24 7/8	24 7/8	25 3/4	25 3/4	60.5	69.5	1.8	1.8
CR 1-9	1	1	115/208-230*	56C	15 1/4	16 1/4	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	26 1/2	26 1/2	27 1/2	27 1/2	61.4	71.5	1.8	2.1
		3	208-230/460	56C	15 1/4	16 1/4	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	25 1/2	25 1/2	26 1/2	26 1/2	61.4	71.5	1.8	2.1
CR 1-10	1	1	115/208-230*	56C	16	17	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	27 1/4	27 1/4	28 1/4	28 1/4	62.5	72.6	1.8	2.1
		3	208-230/460	56C	16	17	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	26 1/4	26 1/4	27 1/4	27 1/4	62.5	72.6	1.8	2.1
CR 1-11	1 1/2	1	115/208-230	56C	16 3/4	17 5/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	28 1/2	28 1/2	29 3/8	29 3/8	71.9	81.0	2.7	2.7
		3	208-230/460	56C	16 3/4	17 5/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	27 1/2	27 1/2	28 3/8	28 3/8	71.9	81.0	2.7	2.7
CR 1-12	1 1/2	1	115/208-230	56C	17 3/8	18 3/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	29 1/8	29 1/8	30 1/8	30 1/8	73.0	82.1	2.7	2.7
		3	208-230/460	56C	17 3/8	18 3/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	28 1/8	28 1/8	29 1/8	29 1/8	73.0	82.1	2.7	2.7
CR 1-13	1 1/2	1	115/208-230	56C	18 1/8	19 1/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	29 7/8	29 7/8	30 7/8	30 7/8	73.6	82.7	2.7	2.7
		3	208-230/460	56C	18 1/8	19 1/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	28 7/8	28 7/8	29 7/8	29 7/8	73.6	82.7	2.7	2.7
CR 1-15	2	1	115/208-230*	56C	19 1/2	20 1/2	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	31 1/4	32 1/8	32 1/4	33 1/8	79.4	88.4	2.7	2.7
		3	208-230/460	56C	19 1/2	20 1/2	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	30 1/4	31 1/4	31 1/4	32 1/4	79.4	88.4	2.7	2.7
CR 1-17	2	1	115/208-230*	56C	21	21 7/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	32 3/4	33 5/8	33 5/8	34 1/2	80.5	89.5	2.7	2.7
		3	208-230/460	56C	21	21 7/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	31 3/4	32 3/4	32 5/8	33 5/8	80.5	89.5	2.7	2.7
CR 1-19	2	1	115/208-230*	56C		23 3/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4			35 1/8	36		91.1		2.7
		3	208-230/460	56C		23 3/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			34 1/8	35 1/8		91.1		2.7
CR 1-21	3	1	115/208-230	182TC		25 7/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6			40 3/8	40 3/8		109.1		2.7
		3	208-230/460	182TC		25 7/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6			40 3/8	40 3/8		109.1		2.7
CR 1-23	3	1	115/208-230	182TC		27 1/4	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6			41 3/4	41 3/4		112.1		3.8
		3	208-230/460	182TC		27 1/4	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6			41 3/4	41 3/4		112.1		3.8
CR 1-25	3	1	115/208-230	182TC		28 3/4	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6			43 1/4	43 1/4		114.6		3.8
		3	208-230/460	182TC		28 3/4	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6			43 1/4	43 1/4		114.6		3.8
CR 1-27	3	1	115/208-230	182TC		30 1/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6			44 5/8	44 5/8		115.8		3.8
		3	208-230/460	182TC		30 1/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6			44 5/8	45 5/8		115.8		3.8

* TEFC voltage is 115/230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

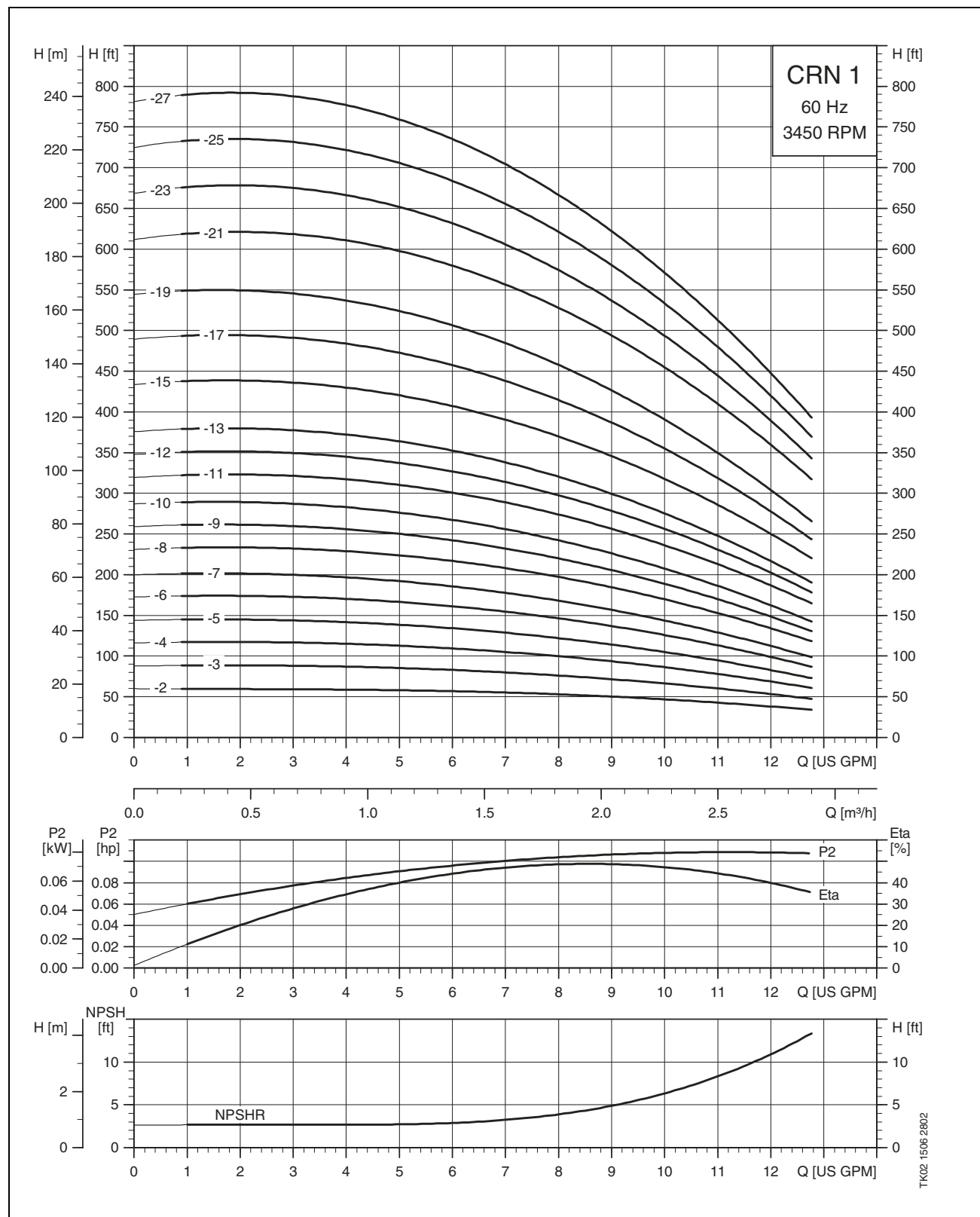


Dimensions and weights

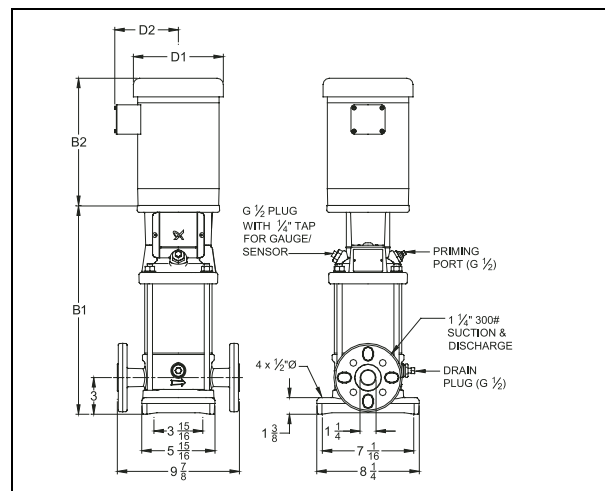
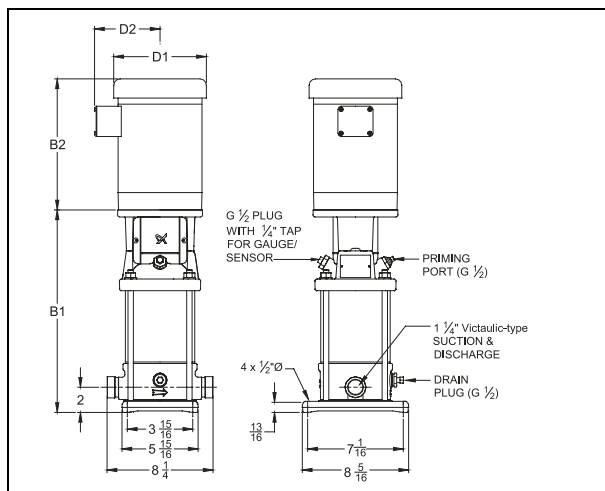
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	Oval B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	Oval ODP B1+B2	Oval TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft ³]	ANSI Ship Vol. ¹ [ft ³]
CRI 1-2	1/3	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.2	54.8	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.2	54.8	1.8	1.8
CRI 1-3	1/3	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.2	54.8	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.2	54.8	1.8	1.8
CRI 1-4	1/2	1	115/208-230	56C	11 7/8	12 7/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 1/8	21 1/4	22 1/8	22 1/4	45.9	54.5	1.8	1.8
		3	208-230/460	56C	11 7/8	12 7/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 1/8	21 1/4	22 1/8	22 1/4	45.9	54.5	1.8	1.8
CRI 1-5	1/2	1	115/208-230	56C	12 5/8	13 1/2	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 7/8	22	22 3/4	22 7/8	46.5	55.1	1.8	1.8
		3	208-230/460	56C	12 5/8	13 1/2	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 7/8	22	22 3/4	22 7/8	46.5	55.1	1.8	1.8
CRI 1-6	3/4	1	115/208-230	56C	13 1/4	14 1/4	11	6 1/4	4 1/2	10	6 1/4	4 5/8	24 1/4	23 1/4	25 1/4	24 1/4	48.8	57.4	1.8	1.8
		3	208-230/460	56C	13 1/4	14 1/4	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	23 1/2	22 5/8	24 1/2	23 5/8	48.8	57.4	1.8	1.8
CRI 1-7	3/4	1	115/208-230	56C	14	15	11	6 1/4	4 1/2	10	6 1/4	4 5/8	25	24	26	25	50.2	58.7	1.8	1.8
		3	208-230/460	56C	14	15	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	24 1/4	23 3/8	25 1/4	24 3/8	50.2	58.7	1.8	1.8
CRI 1-8	1	1	115/208-230*	56C	14 3/4	15 5/8	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	26	26	26 7/8	26 7/8	53.7	62.3	1.8	1.8
		3	208-230/460	56C	14 3/4	15 5/8	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	25	25	25 7/8	25 7/8	53.7	62.3	1.8	1.8
CRI 1-9	1	1	115/208-230*	56C	15 3/8	16 3/8	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	26 5/8	26 5/8	25 5/8	27 5/8	54.6	64.2	1.8	2.1
		3	208-230/460	56C	15 3/8	16 3/8	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	25 5/8	25 5/8	26 5/8	26 5/8	54.6	64.2	1.8	2.1
CRI 1-10	1	1	115/208-230*	56C	16 1/8	17 1/8	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	27 3/8	27 3/8	28 3/8	28 3/8	55.7	66.4	1.8	2.7
		3	208-230/460	56C	16 1/8	17 1/8	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	26 3/8	26 3/8	27 3/8	27 3/8	55.7	66.4	1.8	2.7
CRI 1-11	1 1/2	1	115/208-230	56C	16 7/8	17 3/4	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	28 5/8	28 5/8	29 1/2	29 1/2	65.1	73.7	2.7	2.7
		3	208-230/460	56C	16 7/8	17 3/4	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	27 5/8	27 5/8	28 1/2	28 1/2	65.1	73.7	2.7	2.7
CRI 1-12	1 1/2	1	115/208-230	56C	17 1/2	18 1/2	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	29 1/4	29 1/4	30 1/4	30 1/4	66.2	74.8	2.7	2.7
		3	208-230/460	56C	17 1/2	18 1/2	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	28 1/4	28 1/4	29 1/4	29 1/4	66.2	74.8	2.7	2.7
CRI 1-13	1 1/2	1	115/208-230	56C	18 1/4	19 1/4	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	30	30	31	31	66.8	75.4	2.7	2.7
		3	208-230/460	56C	18 1/4	19 1/4	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	29	29	30	30	66.8	75.4	2.7	2.7
CRI 1-15	2	1	115/208-230*	56C	19 5/8	20 5/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	31 3/8	32 1/4	32 3/8	33 1/4	72.6	81.2	2.7	2.7
		3	208-230/460	56C	19 5/8	20 5/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	30 3/8	31 3/8	31 3/8	32 3/8	72.6	81.2	2.7	2.7
CRI 1-17	2	1	115/208-230*	56C	21 1/8	22	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	32 7/8	33 3/4	33 3/4	34 5/8	73.7	82.3	2.7	2.7
		3	208-230/460	56C	21 1/8	22	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	31 7/8	32 7/8	32 3/4	33 3/4	73.7	82.3	2.7	2.7
CRI 1-19	2	1	115/208-230*	56C		23 1/2	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4			35 1/4	36 1/8		83.8		2.7
		3	208-230/460	56C		23 1/2	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4			34 1/4	35 1/4		83.8		2.7
CRI 1-21	3	1	115/208-230	182TC		26	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6			40 1/2	40 1/2		101.9		2.7
		3	208-230/460	182TC		26	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6			40 1/2	40 1/2		101.9		2.7
CRI 1-23	3	1	115/208-230	182TC		27 3/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6			41 7/8	41 7/8		104.8		3.8
		3	208-230/460	182TC		27 3/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6			41 7/8	41 7/8		104.8		3.8
CRI 1-25	3	1	115/208-230	182TC		28 7/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6			43 3/8	43 3/8		107.4		3.8
		3	208-230/460	182TC		28 7/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6			43 3/8	43 3/8		107.4		3.8
CRI 1-27	3	1	115/208-230	182TC		30 1/4	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6			44 3/4	44 3/4		108.5		3.8
		3	208-230/460	182TC		30 1/4	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6			44 3/4	44 3/4		108.5		3.8

* TEFC voltage is 115/230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

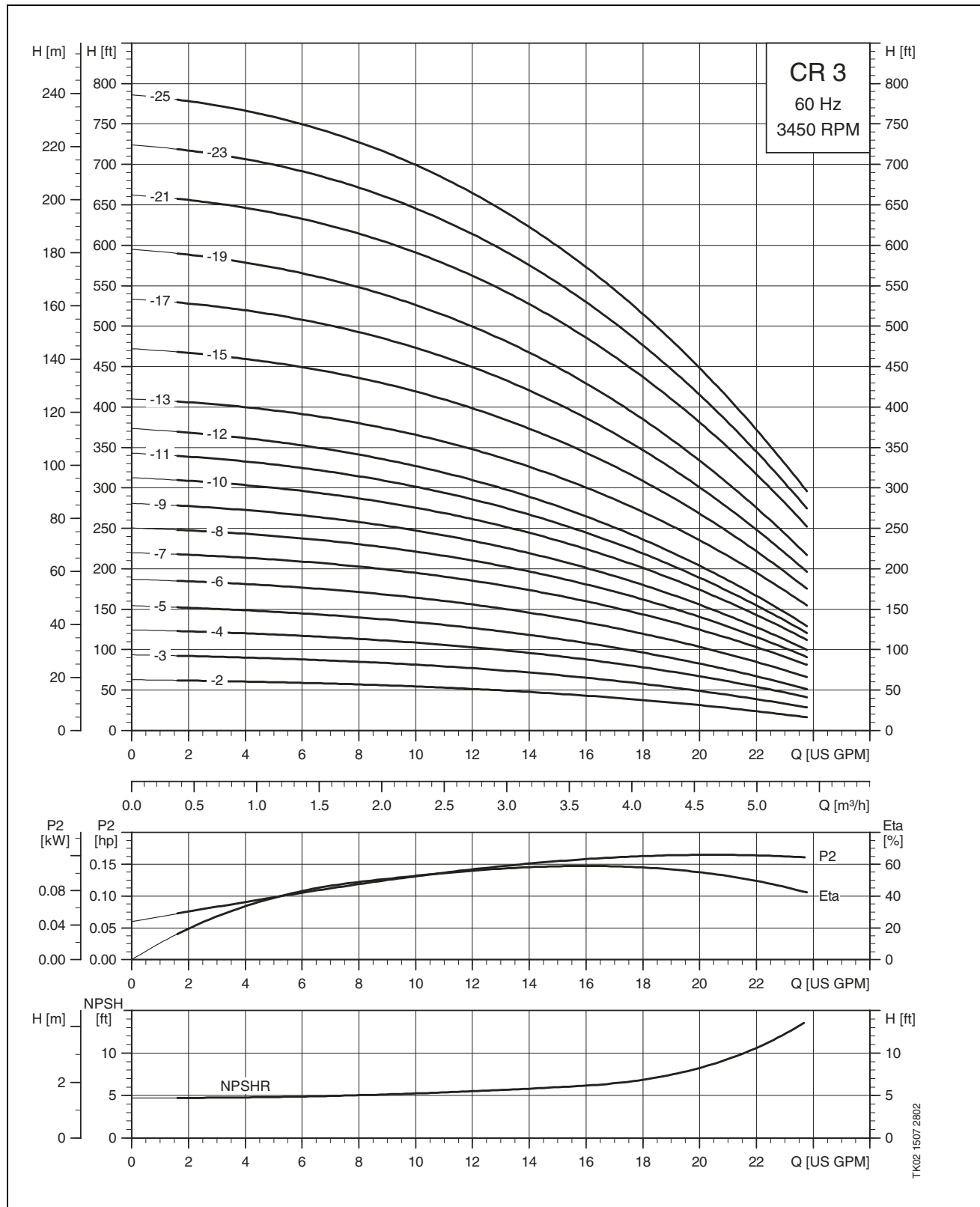


Dimensions and weights

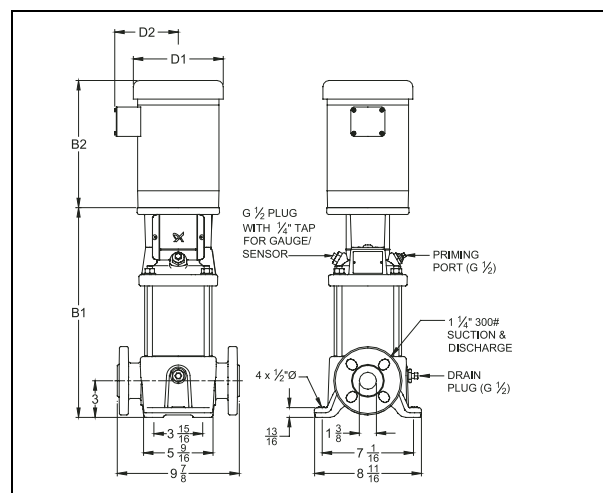
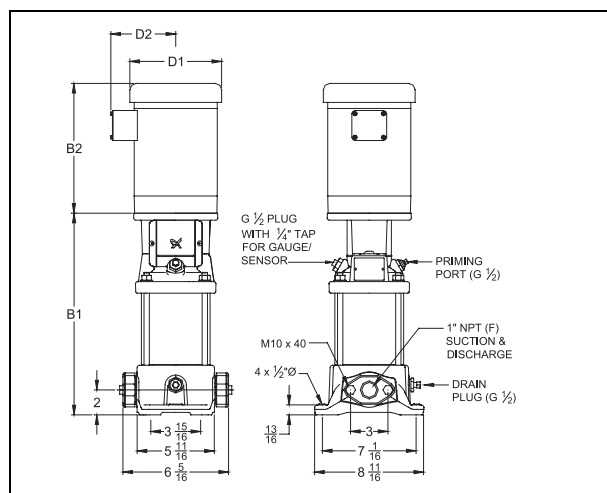
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	PJE B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	PJE ODP B1+B2	PJE TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft ³]	ANSI Ship Vol. ¹ [ft ³]
CRN 1-2	1/3	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.9	54.8	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.9	54.8	1.8	1.8
CRN 1-3	1/3	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.9	54.8	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.9	54.8	1.8	1.8
CRN 1-4	1/2	1	115/208-230	56C	11 7/8	12 7/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 1/8	21 1/4	22 1/8	22 1/4	46.6	54.5	1.8	1.8
		3	208-230/460	56C	11 7/8	12 7/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 1/8	21 1/4	22 1/8	22 1/4	46.6	54.5	1.8	1.8
CRN 1-5	1/2	1	115/208-230	56C	12 5/8	13 1/2	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 7/8	22	22 3/4	22 7/8	47.1	55.1	1.8	1.8
		3	208-230/460	56C	12 5/8	13 1/2	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 7/8	22	22 3/4	22 7/8	47.1	55.1	1.8	1.8
CRN 1-6	3/4	1	115/208-230	56C	13 1/4	14 1/4	11	6 1/4	4 1/2	10	6 1/4	4 5/8	24 1/4	23 1/4	25 1/4	24 1/4	49.5	57.4	1.8	1.8
		3	208-230/460	56C	13 1/4	14 1/4	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	23 1/2	22 5/8	24 1/2	23 5/8	49.5	57.4	1.8	1.8
CRN 1-7	3/4	1	115/208-230	56C	14	15	11	6 1/4	4 1/2	10	6 1/4	4 5/8	25	24	26	25	50.8	58.7	1.8	1.8
		3	208-230/460	56C	14	15	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	24 1/4	23 3/8	25 1/4	24 3/8	50.8	58.7	1.8	1.8
CRN 1-8	1	1	115/208-230*	56C	14 3/4	15 5/8	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	26	26	26 7/8	26 7/8	54.3	62.3	1.8	1.8
		3	208-230/460	56C	14 3/4	15 5/8	10 1/4	6 1/4	4 1/2	10 1/4	7 1/4	5 1/4	25	25	25 7/8	25 7/8	54.3	62.3	1.8	1.8
CRN 1-9	1	1	115/208-230*	56C	15 3/8	16 3/8	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	26 5/8	26 5/8	27 5/8	27 5/8	55.2	64.2	1.8	2.1
		3	208-230/460	56C	15 3/8	16 3/8	10 1/4	6 1/4	4 1/2	10 1/4	7 1/4	5 1/4	25 5/8	25 5/8	26 5/8	26 5/8	55.2	64.2	1.8	2.1
CRN 1-10	1	1	115/208-230*	56C	16 1/8	17 1/8	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	27 3/8	27 3/8	28 3/8	28 3/8	56.3	66.4	1.8	2.7
		3	208-230/460	56C	16 1/8	17 1/8	10 1/4	6 1/4	4 1/2	10 1/4	7 1/4	5 1/4	26 3/8	26 3/8	27 3/8	27 3/8	56.3	66.4	1.8	2.7
CRN 1-11	1 1/2	1	115/208-230	56C	16 7/8	17 3/4	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	28 5/8	25 5/8	29 1/2	29 1/2	65.8	73.7	2.7	2.7
		3	208-230/460	56C	16 7/8	17 3/4	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	27 5/8	27 5/8	28 1/2	28 1/2	65.8	73.7	2.7	2.7
CRN 1-12	1 1/2	1	115/208-230	56C	17 1/2	18 1/2	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	29 1/4	29 1/4	30 1/4	30 1/4	66.9	74.8	2.7	2.7
		3	208-230/460	56C	17 1/2	18 1/2	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	28 1/4	28 1/4	29 1/4	29 1/4	66.9	74.8	2.7	2.7
CRN 1-13	1 1/2	1	115/208-230	56C	18 1/4	19 1/4	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	30	30	31	30	67.5	75.4	2.7	2.7
		3	208-230/460	56C	18 1/4	19 1/4	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	29	29	30	31	67.5	75.4	2.7	2.7
CRN 1-15	2	1	115/208-230*	56C	19 5/8	20 5/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	31 3/8	32 1/4	32 3/8	33 1/4	73.3	81.2	2.7	2.7
		3	208-230/460	56C	19 5/8	20 5/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	30 3/8	31 3/8	31 3/8	32 3/8	73.3	81.2	2.7	2.7
CRN 1-17	2	1	115/208-230*	56C	21 1/8	22	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	32 7/8	33 3/4	33 3/4	34 5/8	74.4	82.3	2.7	2.7
		3	208-230/460	56C	21 1/8	22	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	31 7/8	32 7/8	32 3/4	33 3/4	74.4	82.3	2.7	2.7
CRN 1-19	2	1	115/208-230*	56C	22 1/2	23 1/2	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	34 1/4	35 1/8	35 1/4	36 1/8	75.9	83.8	2.7	2.7
		3	208-230/460	56C	22 1/2	23 1/2	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	33 1/4	34 1/4	34 1/4	35 1/4	75.9	83.8	2.7	2.7
CRN 1-21	3	1	115/208-230	182TC	25	26	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	39 1/2	39 1/2	40 1/2	40 1/2	94.0	101.9	2.7	2.7
		3	208-230/460	182TC	25	26	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	39 1/2	39 1/2	40 1/2	40 1/2	94.0	101.9	2.7	2.7
CRN 1-23	3	1	115/208-230	182TC	26 3/8	27 3/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	40 7/8	40 7/8	41 7/8	41 7/8	95.8	104.8	2.7	3.8
		3	208-230/460	182TC	26 3/8	27 3/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	40 7/8	40 7/8	41 7/8	41 7/8	95.8	104.8	2.7	3.8
CRN 1-25	3	1	115/208-230	182TC	27 7/8	28 7/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	42 3/8	42 3/8	43 3/8	43 3/8	99.5	107.4	3.8	3.8
		3	208-230/460	182TC	27 7/8	28 7/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	42 3/8	42 3/8	43 3/8	43 3/8	99.5	107.4	3.8	3.8
CRN 1-27	3	1	115/208-230	182TC	29 1/4	30 1/4	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	43 3/4	43 3/4	44 3/4	44 3/4	100.6	108.5	3.8	3.8
		3	208-230/460	182TC	29 1/4	30 1/4	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	43 3/4	43 3/4	44 3/4	44 3/4	100.6	108.5	3.8	3.8

* TEFC voltage is 115/230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

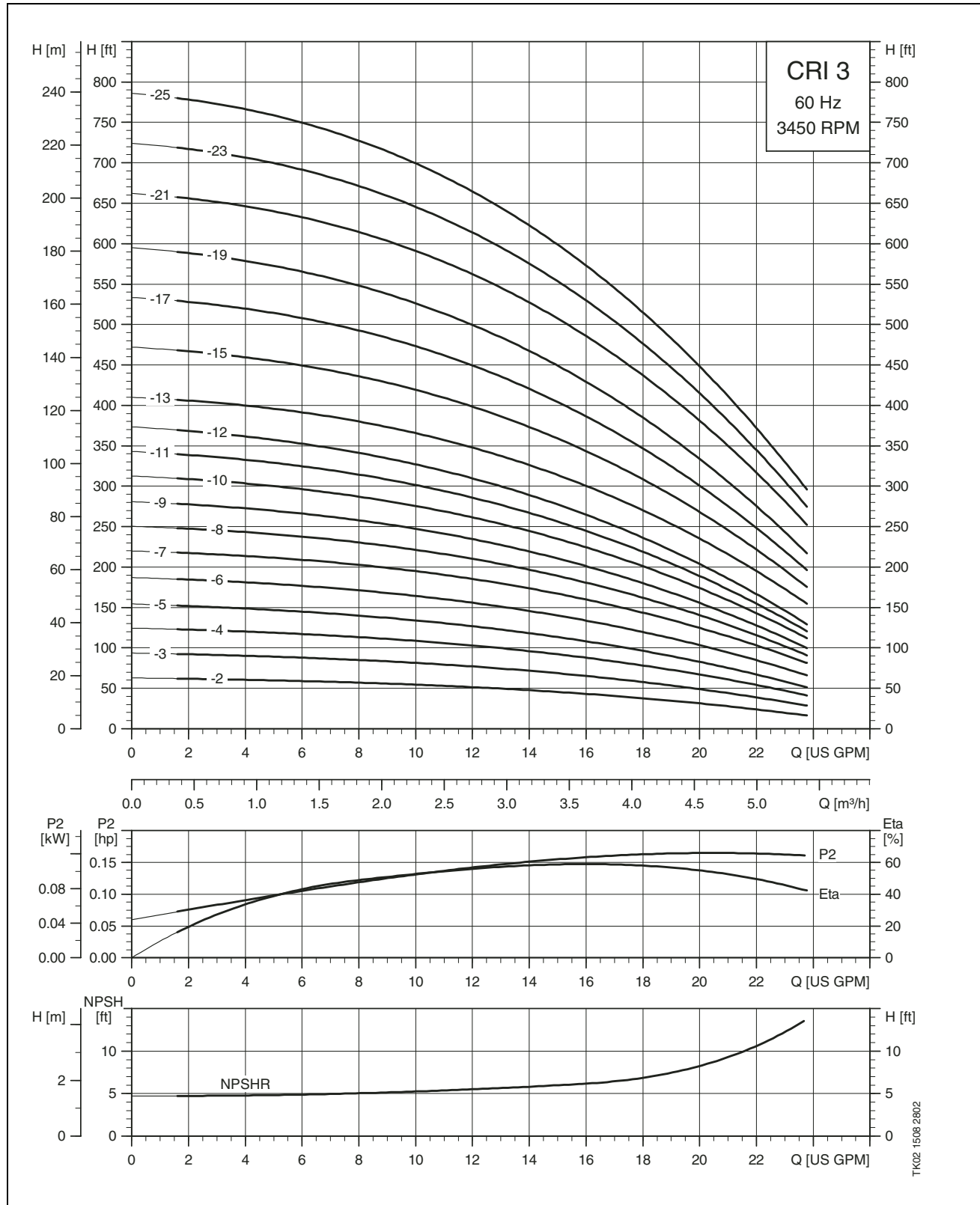


Dimensions and weights

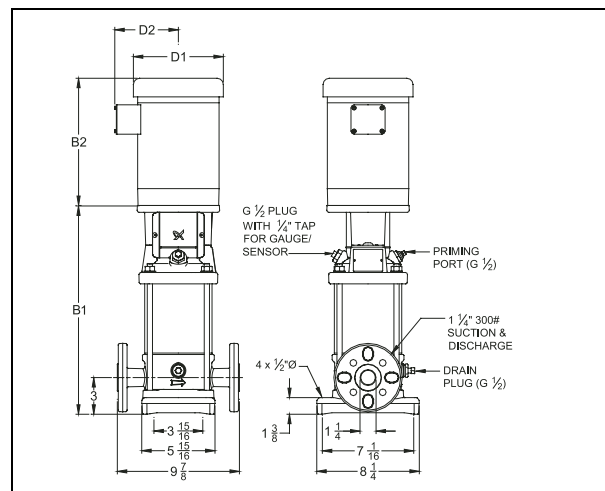
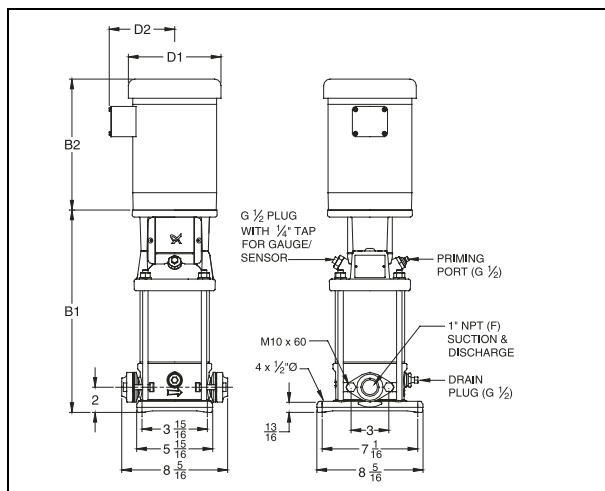
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	Oval B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	Oval ODP B1+B2	Oval TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft ³]	ANSI Ship Vol. ¹ [ft ³]
CR 3-2	1/3	1	115/230	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	53.0	62.0	1.8	1.8
		3	208-230/460	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	53.0	62.0	1.8	1.8
CR 3-3	1/2	1	115/230	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	52.1	61.2	1.8	1.8
		3	208-230/460	56C	11	12	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 1/4	20 3/8	21 1/4	21 3/8	52.1	61.2	1.8	1.8
CR 3-4	3/4	1	115/208-230	56C	11 3/4	12 3/4	11	6 1/4	4 1/2	10	6 1/4	4 5/8	22 3/4	21 3/4	23 3/4	22 3/4	54.5	63.5	1.8	1.8
		3	208-230/460	56C	11 3/4	12 3/4	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22	21 1/8	23	22 1/8	54.5	63.5	1.8	1.8
CR 3-5	3/4	1	115/208-230	56C	12 1/2	13 3/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	23 1/2	22 1/2	24 3/8	23 3/8	55.1	64.1	1.8	1.8
		3	208-230/460	56C	12 1/2	13 3/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22 3/4	21 7/8	23 5/8	22 3/4	55.1	64.1	1.8	1.8
CR 3-6	1	1	115/208-230*	56C	13 1/8	14 1/8	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	24 3/8	24 3/8	25 3/8	25 3/8	57.4	66.4	1.8	1.8
		3	208-230/460	56C	13 1/8	14 1/8	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	23 3/8	23 3/8	24 3/8	24 3/8	57.4	66.4	1.8	1.8
CR 3-7	1 1/2	1	115/208-230	56C	13 7/8	14 7/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	25 5/8	25 5/8	26 5/8	26 5/8	64.9	75.0	1.8	2.1
		3	208-230/460	56C	13 7/8	14 7/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	24 5/8	24 5/8	25 5/8	25 5/8	64.9	75.0	1.8	2.1
CR 3-8	1 1/2	1	115/208-230	56C	14 5/8	15 1/2	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	26 3/8	26 3/8	27 1/4	27 1/4	66.7	76.8	1.8	2.1
		3	208-230/460	56C	14 5/8	15 1/2	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	25 3/8	25 3/8	26 1/4	26 1/4	66.7	76.8	1.8	2.1
CR 3-9	1 1/2	1	115/208-230	56C	15 1/4	16 1/4	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	27	27	28	28	68.6	78.8	2.1	2.7
		3	208-230/460	56C	15 1/4	16 1/4	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	26	26	27	27	68.6	78.8	2.1	2.7
CR 3-10	2	1	115/208-230*	56C	16	17	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	28 5/8	28 5/8	28 3/4	29 5/8	74.4	84.5	2.1	2.7
		3	208-230/460	56C	16	17	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	27 3/4	27 3/4	27 3/4	28 3/4	74.4	84.5	2.1	2.7
CR 3-11	2	1	115/208-230*	56C	16 3/4	17 5/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	29 3/8	29 3/8	29 3/8	30 1/4	76.6	85.6	2.7	2.7
		3	208-230/460	56C	16 3/4	17 5/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	28 1/2	28 1/2	28 3/8	29 3/8	76.6	85.6	2.7	2.7
CR 3-12	2	1	115/208-230*	56C	17 3/8	18 3/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	30	30	30 1/8	31	77.7	86.7	2.7	2.7
		3	208-230/460	56C	17 3/8	18 3/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	29 1/8	29 1/8	29 1/8	30 1/8	77.7	86.7	2.7	2.7
CR 3-13	3	1	115/208-230	182TC	19 1/4	20 1/4	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	33 3/4	33 3/4	34 3/4	34 3/4	94.5	103.6	2.7	2.7
		3	208-230/460	182TC	19 1/4	20 1/4	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	33 3/4	33 3/4	34 3/4	34 3/4	94.5	103.6	2.7	2.7
CR 3-15	3	1	115/208-230	182TC	20 5/8	21 5/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	35 1/8	35 1/8	36 1/8	36 1/8	95.7	104.7	2.7	2.7
		3	208-230/460	182TC	20 5/8	21 5/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	35 1/8	35 1/8	36 1/8	36 1/8	95.7	104.7	2.7	2.7
CR 3-17	3	1	115/208-230	182TC	22	23	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	36 1/2	36 1/2	37 1/2	37 1/2	96.8	105.8	2.7	2.7
		3	208-230/460	182TC	22	23	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	36 1/2	36 1/2	37 1/2	37 1/2	96.8	105.8	2.7	2.7
CR 3-19	3	1	115/208-230	182TC		24 1/2	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6			39	39		107.4		2.7
		3	208-230/460	182TC		24 1/2	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6			39	39		107.4		2.7
CR 3-21	5	1	208-230**	213TC		25 7/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2			41 1/4	41 1/4		116.4		3.8
		3	208-230/460	184TC		25 7/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6			40	41 7/8		116.4		3.8
CR 3-23	5	1	208-230**	213TC		27 1/4	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2			42 5/8	42 5/8		118.3		3.8
		3	208-230/460	184TC		27 1/4	14 1/8	7 1/4	5 1/8	16	8 1/2	6			41 3/8	43 1/4		118.3		3.8
CR 3-25	5	1	208-230**	213TC		28 3/4	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2			44 1/8	44 1/8		120.8		3.8
		3	208-230/460	184TC		28 3/4	14 1/8	7 1/4	5 1/8	16	8 1/2	6			42 7/8	44 3/4		120.8		3.8

* TEFC voltage is 115/230 (**230)

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

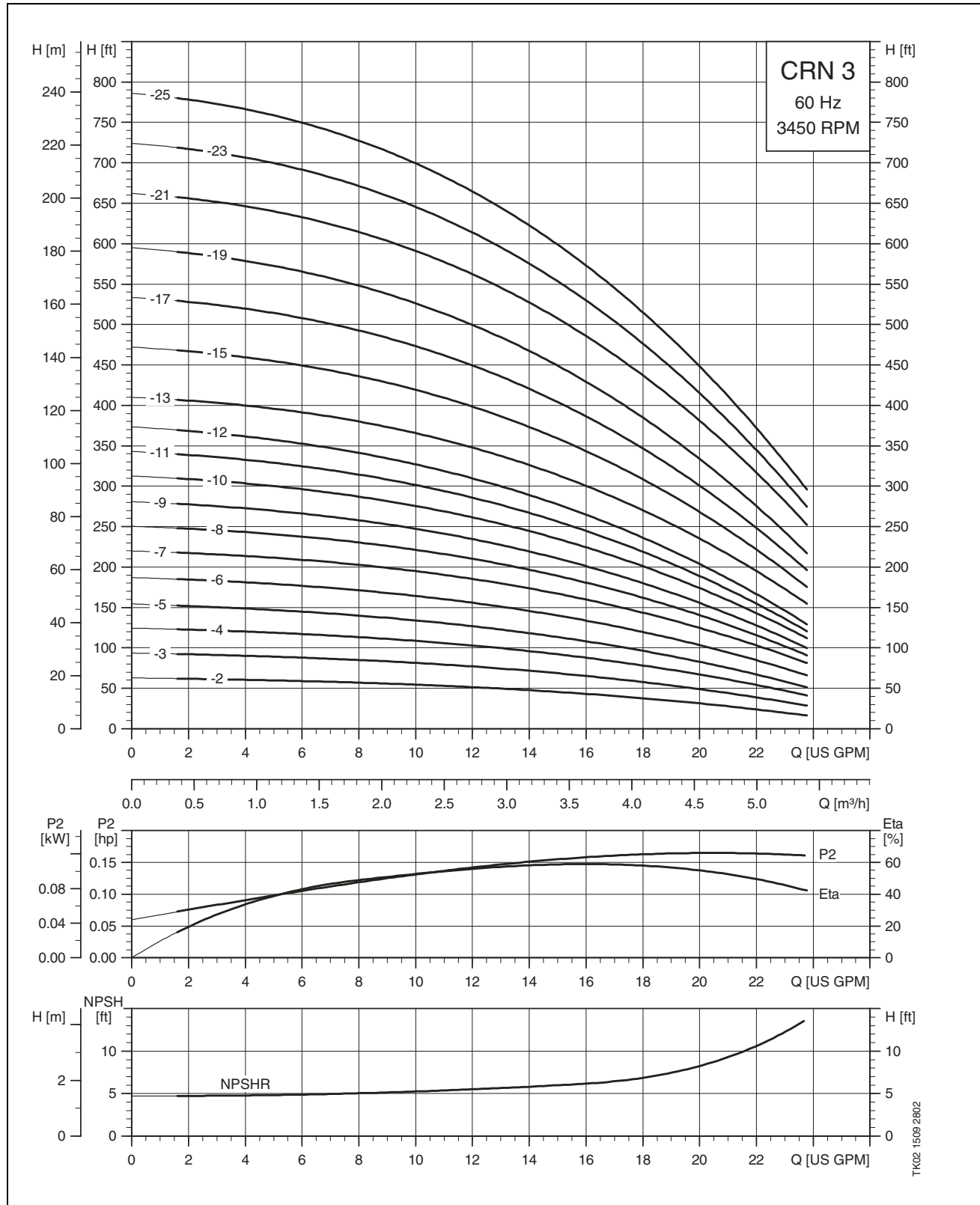


Dimensions and weights

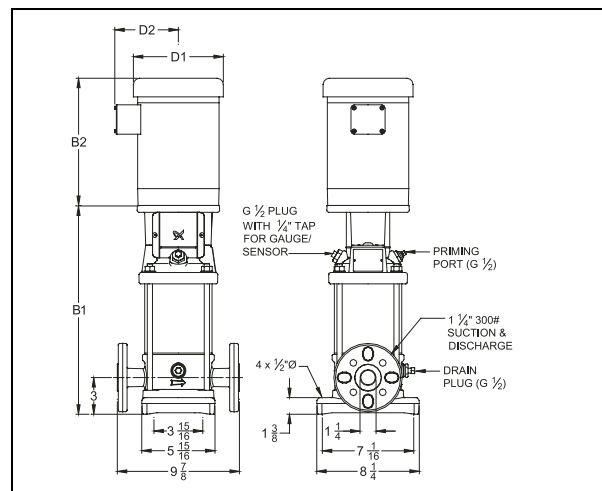
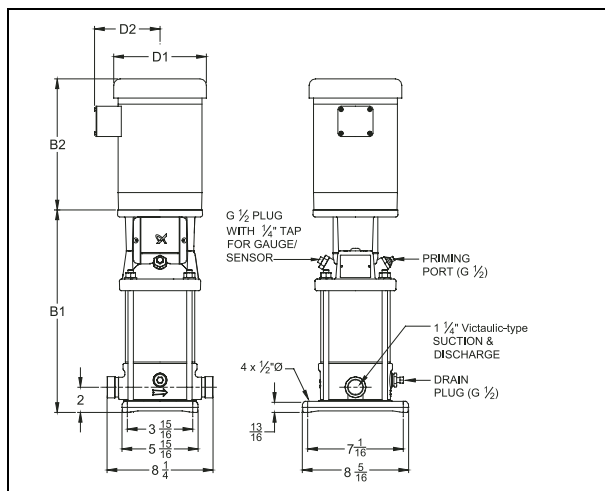
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	Oval B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	Oval ODP B1+B2	Oval TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft ³]	ANSI Ship Vol. ¹ [ft ³]
CRI 3-2	1/3	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.2	54.8	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.2	54.8	1.8	1.8
CRI 3-3	1/2	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	45.3	53.9	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	45.3	53.9	1.8	1.8
CRI 3-4	3/4	1	115/208-230	56C	11 7/8	12 7/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	22 7/8	21 7/8	23 7/8	22 7/8	47.7	56.3	1.8	1.8
		3	208-230/460	56C	11 7/8	12 7/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22 1/8	21 1/4	23 1/8	22 1/4	47.7	56.3	1.8	1.8
CRI 3-5	3/4	1	115/208-230	56C	12 5/8	13 1/2	11	6 1/4	4 1/2	10	6 1/4	4 5/8	23 5/8	22 5/8	24 1/2	23 1/2	48.2	56.8	1.8	1.8
		3	208-230/460	56C	12 5/8	13 1/2	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22 7/8	22	23 3/4	22 7/8	48.2	56.8	1.8	1.8
CRI 3-6	1	1	115/208-230*	56C	13 1/4	14 1/4	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	24 1/2	24 1/2	25 1/2	25 1/2	50.6	59.2	1.8	1.8
		3	208-230/460	56C	13 1/4	14 1/4	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	23 1/2	23 1/2	24 1/2	24 1/2	50.6	59.2	1.8	1.8
CRI 3-7	1 1/2	1	115/208-230	56C	14	15	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	25 3/4	25 3/4	26 3/4	26 3/4	58.1	67.8	1.8	2.1
		3	208-230/460	56C	14	15	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	24 3/4	24 3/4	25 3/4	25 3/4	58.1	67.8	1.8	2.1
CRI 3-8	1 1/2	1	115/208-230	56C	14 3/4	15 5/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	26 1/2	26 1/2	27 3/8	27 3/8	59.8	70.6	1.8	2.7
		3	208-230/460	56C	14 3/4	15 5/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	25 1/2	25 1/2	26 3/8	26 3/8	59.8	70.6	1.8	2.7
CRI 3-9	1 1/2	1	115/208-230	56C	15 3/8	16 3/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	27 1/8	27 1/8	28 1/8	28 1/8	61.8	71.5	2.1	2.7
		3	208-230/460	56C	15 3/8	16 3/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	26 1/8	26 1/8	27 1/8	27 1/8	61.8	71.5	2.1	2.7
CRI 3-10	2	1	115/208-230*	56C	16 1/8	17 1/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	27 7/8	28 3/4	28 7/8	29 3/4	68.6	77.2	2.7	2.7
		3	208-230/460	56C	16 1/8	17 1/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	26 7/8	27 7/8	27 7/8	28 7/8	68.6	77.2	2.7	2.7
CRI 3-11	2	1	115/208-230*	56C	16 7/8	17 3/4	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	28 5/8	29 1/2	29 1/2	30 3/8	69.7	78.3	2.7	2.7
		3	208-230/460	56C	16 7/8	17 3/4	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	27 5/8	28 5/8	28 1/2	29 1/2	69.7	78.3	2.7	2.7
CRI 3-12	2	1	115/208-230*	56C	17 1/2	18 1/2	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	29 1/4	30 1/8	30 1/4	31 1/8	70.8	79.4	2.7	2.7
		3	208-230/460	56C	17 1/2	18 1/2	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	28 1/4	29 1/4	29 1/4	30 1/4	70.8	79.4	2.7	2.7
CRI 3-13	3	1	115/208-230	182TC	19 3/8	20 3/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	33 7/8	33 7/8	34 7/8	34 7/8	87.7	96.3	2.7	2.7
		3	208-230/460	182TC	19 3/8	20 3/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	33 7/8	33 7/8	34 7/8	34 7/8	87.7	96.3	2.7	2.7
CRI 3-15	3	1	115/208-230	182TC	20 3/4	21 3/4	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	35 1/4	35 1/4	36 1/4	36 1/4	88.9	97.5	2.7	2.7
		3	208-230/460	182TC	20 3/4	21 3/4	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	35 1/4	35 1/4	36 1/4	36 1/4	88.9	97.5	2.7	2.7
CRI 3-17	3	1	115/208-230	182TC	22 1/8	23 1/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	36 5/8	36 5/8	37 5/8	37 5/8	90.0	98.6	2.7	2.7
		3	208-230/460	182TC	22 1/8	23 1/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	36 5/8	36 5/8	37 5/8	37 5/8	90.0	98.6	2.7	2.7
CRI 3-19	3	1	115/208-230	182TC		24 5/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6			39 1/8	39 1/8		100.1		2.7
		3	208-230/460	182TC		24 5/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6			39 1/8	39 1/8		100.1		2.7
CRI 3-21	5	1	208-230**	213TC	26	26	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2			41 3/8	41 3/8		109.1		3.8
		3	208-230/460	184TC	26	26	14 1/8	7 1/4	5 1/8	16	8 1/2	6			40 1/8	42		109.1		3.8
CRI 3-23	5	1	208-230**	213TC		27 3/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2			42 3/4	42 3/4		111.0		3.8
		3	208-230/460	184TC		27 3/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6			41 1/2	43 3/8		111.0		3.8
CRI 3-25	5	1	208-230**	213TC		28 7/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2			44 1/4	44 1/4		113.5		3.8
		3	208-230/460	184TC		28 7/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6			43	44 7/8		113.5		3.8

* TEFC voltage is 115/230 (**230)

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

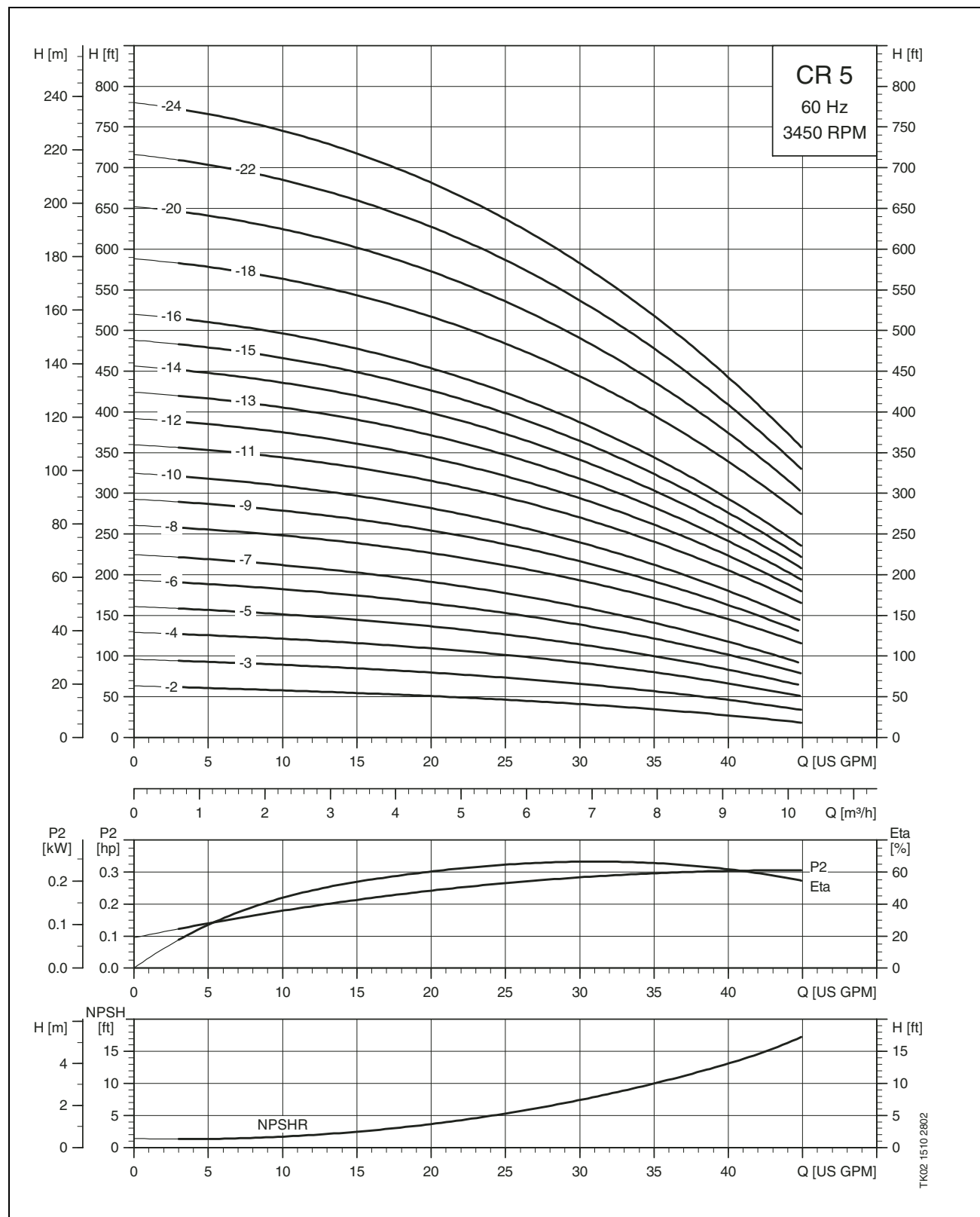


Dimensions and weights

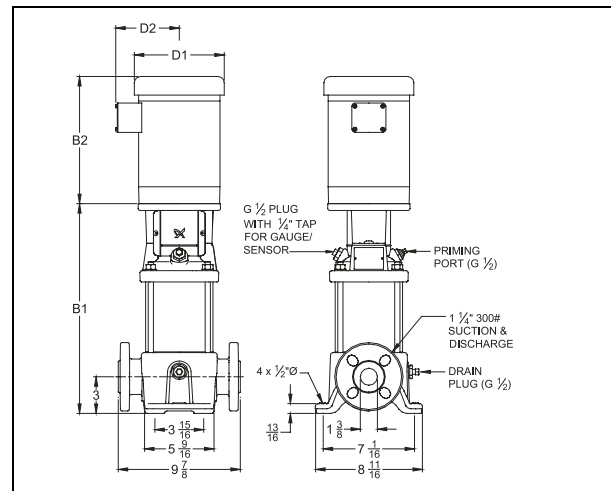
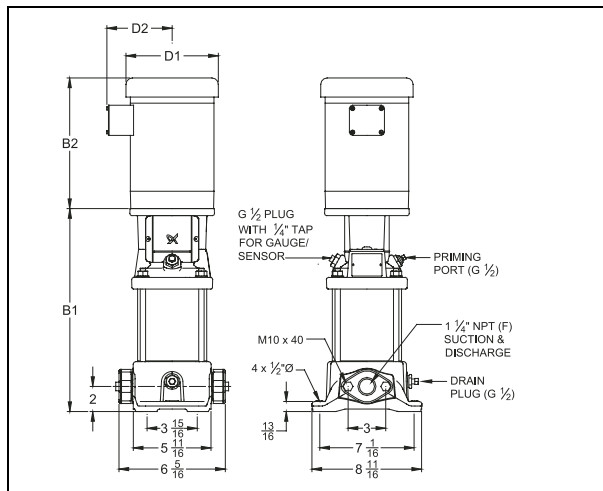
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	P/E B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	P/E ODP B1+B2	P/E TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft ³]	ANSI Ship Vol. ¹ [ft ³]
CRN 3-2	1/3	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.9	54.8	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.9	54.8	1.8	1.8
CRN 3-3	1/2	1	115/230	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.0	53.9	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	9 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	20 3/8	20 1/2	21 3/8	21 1/2	46.0	53.9	1.8	1.8
CRN 3-4	3/4	1	115/208-230	56C	11 7/8	12 7/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	22 7/8	21 7/8	23 7/8	22 7/8	48.3	56.3	1.8	1.8
		3	208-230/460	56C	11 7/8	12 7/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22 1/8	21 1/4	23 1/8	22 1/4	48.3	56.3	1.8	1.8
CRN 3-5	3/4	1	115/208-230	56C	12 5/8	13 1/2	11	6 1/4	4 1/2	10	6 1/4	4 5/8	23 5/8	22 5/8	24 1/2	23 1/2	48.9	56.8	1.8	1.8
		3	208-230/460	56C	12 5/8	13 1/2	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	22 7/8	22	23 3/4	22 7/8	48.9	56.8	1.8	1.8
CRN 3-6	1	1	115/208-230*	56C	13 1/4	14 1/4	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	24 1/2	24 1/2	25 1/2	25 1/2	51.3	59.2	1.8	1.8
		3	208-230/460	56C	13 1/4	14 1/4	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	23 1/2	23 1/2	24 1/2	24 1/2	51.3	59.2	1.8	1.8
CRN 3-7	1 1/2	1	115/208-230	56C	14	15	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	25 3/4	25 3/4	26 3/4	26 3/4	58.7	67.8	1.8	2.1
		3	208-230/460	56C	14	15	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	24 3/4	24 3/4	25 3/4	25 3/4	58.7	67.8	1.8	2.1
CRN 3-8	1 1/2	1	115/208-230	56C	14 3/4	15 5/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	26 1/2	26 1/2	27 3/8	27 3/8	60.5	70.6	1.8	2.7
		3	208-230/460	56C	14 3/4	15 5/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	25 1/2	25 1/2	26 3/8	26 3/8	60.5	70.6	1.8	2.7
CRN 3-9	1 1/2	1	115/208-230	56C	15 3/8	16 3/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	27 1/8	27 1/8	28 1/8	28 1/8	62.5	71.5	2.1	2.7
		3	208-230/460	56C	15 3/8	16 3/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	26 1/8	26 1/8	27 1/8	27 1/8	62.5	71.5	2.1	2.7
CRN 3-10	2	1	115/208-230*	56C	16 1/8	17 1/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	27 7/8	28 3/4	28 7/8	29 3/4	69.3	77.2	2.7	2.7
		3	208-230/460	56C	16 1/8	17 1/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	26 7/8	27 7/8	27 7/8	28 7/8	69.3	77.2	2.7	2.7
CRN 3-11	2	1	115/208-230*	56C	16 7/8	17 3/4	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	28 5/8	29 1/2	29 1/2	30 3/8	70.4	78.3	2.7	2.7
		3	208-230/460	56C	16 7/8	17 3/4	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	27 5/8	28 5/8	28 1/2	29 1/2	70.4	78.3	2.7	2.7
CRN 3-12	2	1	115/208-230*	56C	17 1/2	18 1/2	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	29 1/4	30 1/8	30 1/4	31 1/8	71.5	79.4	2.7	2.7
		3	208-230/460	56C	17 1/2	18 1/2	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	28 1/4	29 1/4	29 1/4	30 1/4	71.5	79.4	2.7	2.7
CRN 3-13	3	1	115/208-230	182TC	19 3/8	20 3/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	33 7/8	33 7/8	34 7/8	34 7/8	88.4	96.3	2.7	2.7
		3	208-230/460	182TC	19 3/8	20 3/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	33 7/8	33 7/8	34 7/8	34 7/8	88.4	96.3	2.7	2.7
CRN 3-15	3	1	115/208-230	182TC	20 3/4	21 3/4	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	35 1/4	35 1/4	36 1/4	36 1/4	89.5	97.5	2.7	2.7
		3	208-230/460	182TC	20 3/4	21 3/4	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	35 1/4	35 1/4	36 1/4	36 1/4	89.5	97.5	2.7	2.7
CRN 3-17	3	1	115/208-230	182TC	22 1/8	23 1/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	36 5/8	36 5/8	37 5/8	37 5/8	90.6	98.6	2.7	2.7
		3	208-230/460	182TC	22 1/8	23 1/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	36 5/8	36 5/8	37 5/8	37 5/8	90.6	98.6	2.7	2.7
CRN 3-19	3	1	115/208-230	182TC	23 5/8	24 5/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	38 1/8	38 1/8	39 1/8	39 1/8	92.2	100.1	2.7	2.7
		3	208-230/460	182TC	23 5/8	24 5/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	38 1/8	38 1/8	39 1/8	39 1/8	92.2	100.1	2.7	2.7
CRN 3-21	5	1	208-230**	213TC	25	26	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	40 3/8	40 3/8	41 3/8	41 3/8	101.2	109.1	3.8	3.8
		3	208-230/460	184TC	25	26	14 1/8	7 1/4	5 1/8	16	8 1/2	6	39 1/8	41	40 1/8	42	101.2	109.1	3.8	3.8
CRN 3-23	5	1	208-230**	213TC	26 3/8	27 3/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	41 3/4	41 3/4	42 3/4	42 3/4	103.1	111.0	3.8	3.8
		3	208-230/460	184TC	26 3/8	27 3/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6	40 1/2	42 3/8	41 1/2	43 3/8	103.1	111.0	3.8	3.8
CRN 3-25	5	1	208-230**	213TC	27 7/8	28 7/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	43 1/4	43 1/4	44 1/4	44 1/4	105.6	113.5	3.8	3.8
		3	208-230/460	184TC	27 7/8	28 7/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6	42	43 7/8	43	44 7/8	105.6	113.5	3.8	3.8

* TEFC voltage is 115/230 (**230)

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

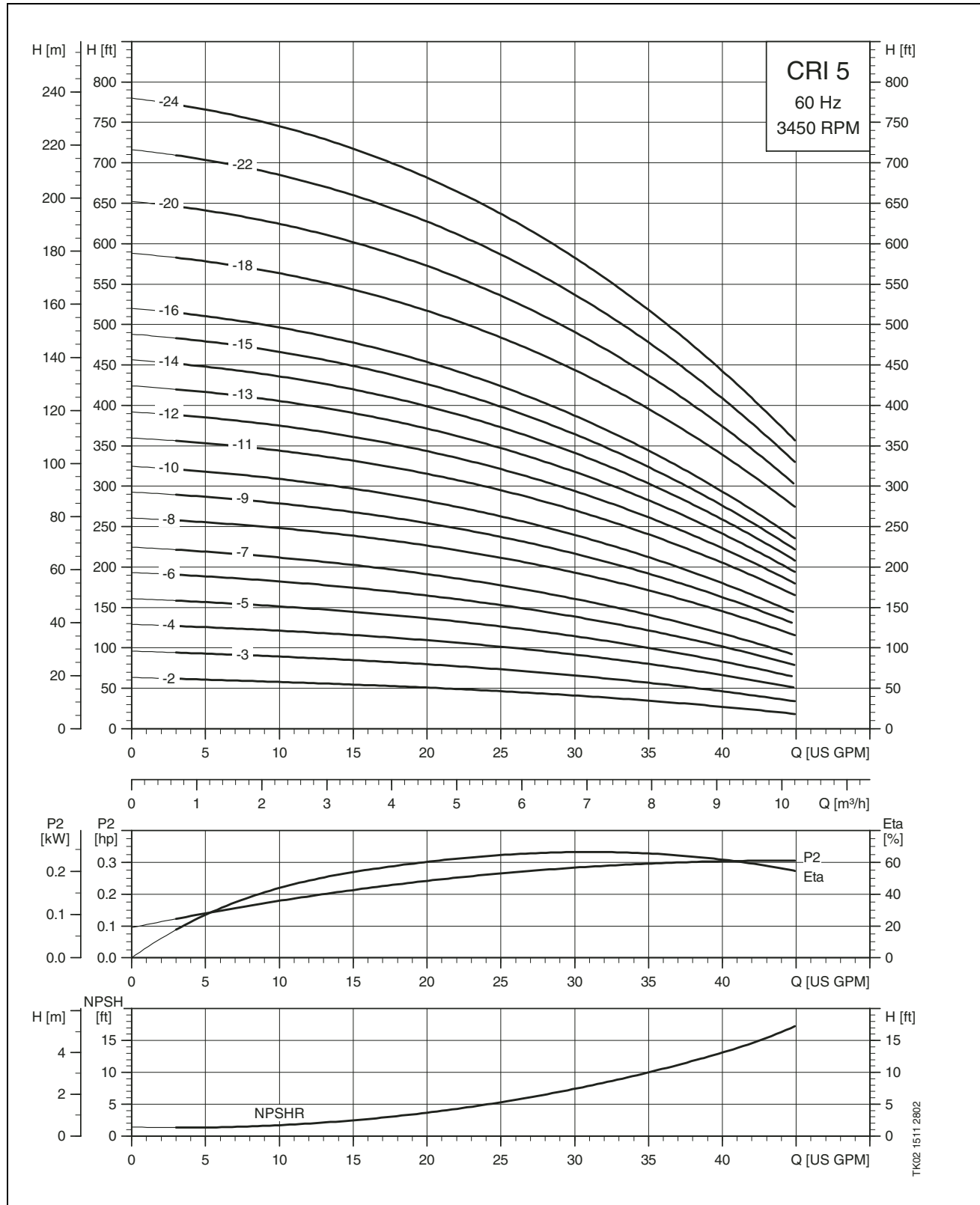


Dimensions and weights

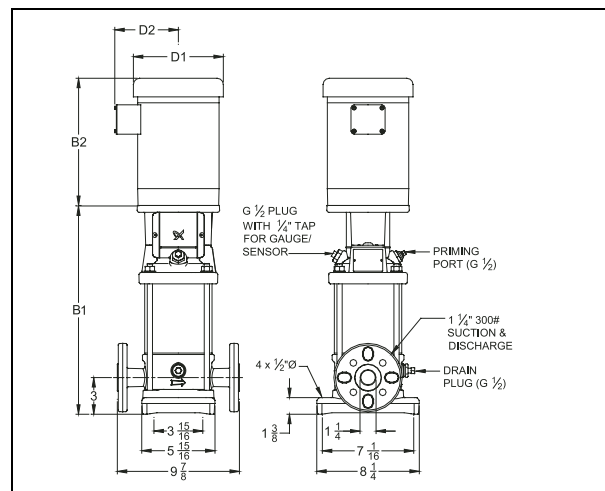
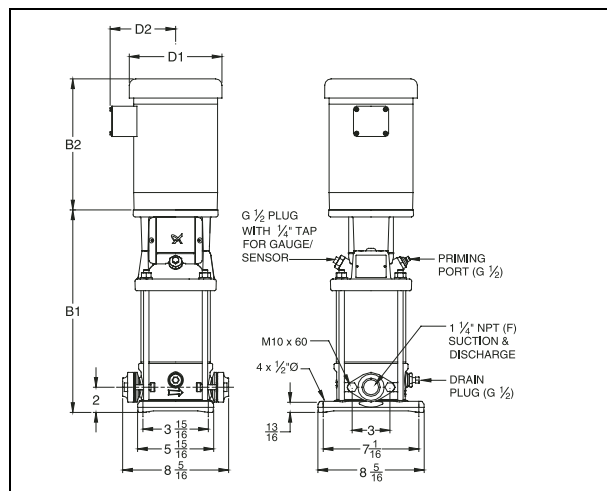
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	Oval B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	Oval ODP B1+B2	Oval TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft ³]	ANSI Ship Vol. ¹ [ft ³]
CR 5-2	3/4	1	115/208-230	56C	11	12	11	6 1/4	4 1/2	10	6 1/4	4 5/8	22	21	23	22	53.9	62.9	1.8	1.8
		3	208-230/460	56C	11	12	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 1/4	20 3/8	22 1/4	21 3/8	53.9	62.9	1.8	1.8
CR 5-3	1	1	115/208-230*	56C	12 1/8	13 1/8	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	23 3/8	23 3/8	24 3/8	24 3/8	56.5	65.6	1.8	1.8
		3	208-230/460	56C	12 1/8	13 1/8	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	22 3/8	22 3/8	23 3/8	23 3/8	56.5	65.6	1.8	1.8
CR 5-4	1 1/2	1	115/208-230	56C	13 1/8	14 1/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	24 7/8	24 7/8	25 7/8	25 7/8	63.6	72.6	1.8	1.8
		3	208-230/460	56C	13 1/8	14 1/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	23 7/8	23 7/8	24 7/8	24 7/8	63.6	72.6	1.8	1.8
CR 5-5	1 1/2	1	115/208-230	56C	14 1/4	15 1/4	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	26	26	27	27	66.2	76.3	1.8	2.1
		3	208-230/460	56C	14 1/4	15 1/4	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	25	25	26	26	66.2	76.3	1.8	2.1
CR 5-6	2	1	115/208-230*	56C	15 1/4	16 1/4	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	27	27 7/8	28	28 7/8	73.3	83.4	2.1	2.7
		3	208-230/460	56C	15 1/4	16 1/4	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	26	27	27	28	73.3	83.4	2.1	2.7
CR 5-7	2	1	115/208-230*	56C	16 3/8	17 3/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	28 1/8	29	29 1/8	30	76.0	85.0	2.7	2.7
		3	208-230/460	56C	16 3/8	17 3/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	27 1/8	28 1/8	28 1/8	29 1/8	76.0	85.0	2.7	2.7
CR 5-8	3	1	115/208-230	182TC	18 1/2	19 1/2	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	33	33	34	34	93.9	103.0	2.7	2.7
		3	208-230/460	182TC	18 1/2	19 1/2	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	33	33	34	34	93.9	103.0	2.7	2.7
CR 5-9	3	1	115/208-230	182TC	19 1/2	20 1/2	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	34	34	35	35	94.8	103.8	2.7	2.7
		3	208-230/460	182TC	19 1/2	20 1/2	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	34	34	35	35	94.8	103.8	2.7	2.7
CR 5-10	3	1	115/208-230	182TC	20 5/8	21 5/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	35 1/8	35 1/8	36 1/8	36 1/8	95.7	104.7	2.7	2.7
		3	208-230/460	182TC	20 5/8	21 5/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	35 1/8	35 1/8	36 1/8	36 1/8	95.7	104.7	2.7	2.7
CR 5-11	5	1	208-230**	213TC	21 5/8	22 5/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	37	37	38	38	102.7	111.7	2.7	2.7
		3	208-230/460	184TC	21 5/8	22 5/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6	35 3/4	37 5/8	36 3/4	38 5/8	102.7	111.7	2.7	2.7
CR 5-12	5	1	208-230**	213TC	22 3/4	23 3/4	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	38 1/8	38 1/8	39 1/8	39 1/8	103.5	112.5	2.7	2.7
		3	208-230/460	184TC	22 3/4	23 3/4	14 1/8	7 1/4	5 1/8	16	8 1/2	6	36 7/8	38 3/4	37 7/8	39 3/4	103.5	112.5	2.7	2.7
CR 5-13	5	1	208-230**	213TC	23 3/4	24 3/4	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	39 1/8	39 1/8	40 1/8	40 1/8	104.9	115.0	2.7	3.8
		3	208-230/460	184TC	23 3/4	24 3/4	14 1/8	7 1/4	5 1/8	16	8 1/2	6	37 7/8	39 3/4	38 7/8	40 3/4	104.9	115.0	2.7	3.8
CR 5-14	5	1	208-230**	213TC	24 7/8	25 7/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	40 1/4	40 1/4	41 1/4	41 1/4	107.4	116.4	3.8	3.8
		3	208-230/460	184TC	24 7/8	25 7/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6	39	40 7/8	40	41 7/8	107.4	116.4	3.8	3.8
CR 5-15	5	1	208-230**	213TC	25 7/8	26 7/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	41 1/4	41 1/4	42 1/4	42 1/4	108.8	117.8	3.8	3.8
		3	208-230/460	184TC	25 7/8	26 7/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6	40	41 7/8	41	42 7/8	108.8	117.8	3.8	3.8
CR 5-16	5	1	208-230**	213TC	27	28	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	42 3/8	42 3/8	43 3/8	43 3/8	110.2	119.2	3.8	3.8
		3	208-230/460	184TC	27	28	14 1/8	7 1/4	5 1/8	16	8 1/2	6	41 1/8	43	42 1/8	44	110.2	119.2	3.8	3.8
CR 5-18	7 1/2	1	208-230	213TC		30 1/2	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2			45 7/8	45 7/8		151.7		3.8
		3	208-230/460	215TC		30 1/2	14 1/2	8 1/2	5 7/8	16	8 1/2	6			45	46 1/2		151.7		3.8
CR 5-20	7 1/2	1	208-230	213TC		32 5/8	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2			48	48		154.4		3.8
		3	208-230/460	215TC		32 5/8	14 1/2	8 1/2	5 7/8	16	8 1/2	6			47 1/8	48 5/8		154.4		3.8
CR 5-22	7 1/2	1	208-230	213TC		34 3/4	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2			50 1/8	50 1/8		156.7		3.8
		3	208-230/460	215TC		34 3/4	14 1/2	8 1/2	5 7/8	16	8 1/2	6			49 1/4	50 3/4		156.7		3.8
CR 5-24	7 1/2	1	208-230	213TC		36 7/8	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2			52 1/4	52 1/4		161.3		3.8
		3	208-230/460	215TC		36 7/8	14 1/2	8 1/2	5 7/8	16	8 1/2	6			51 3/8	52 7/8		161.3		3.8

* TEFC voltage is 115/230 (**230)

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

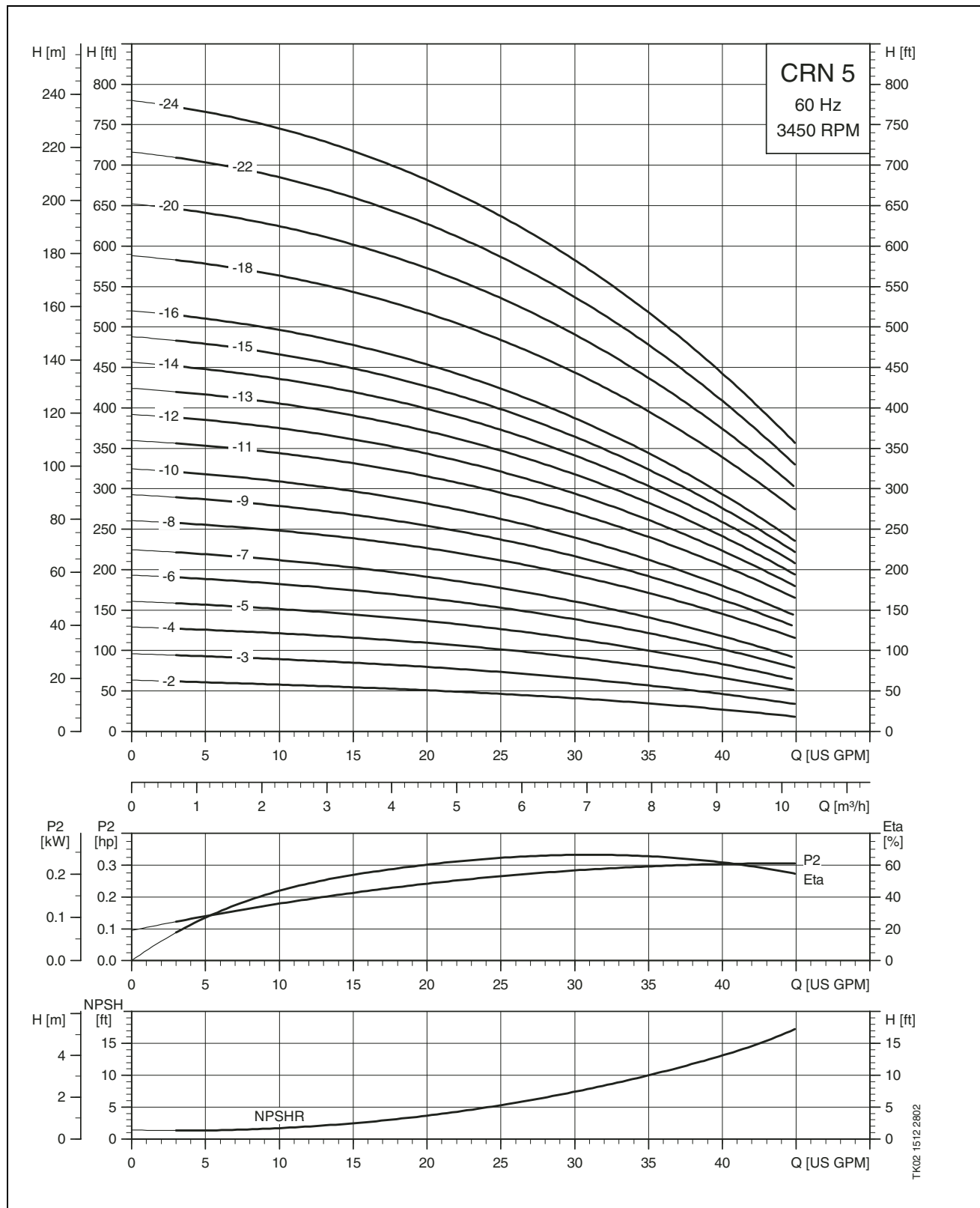


Dimensions and weights

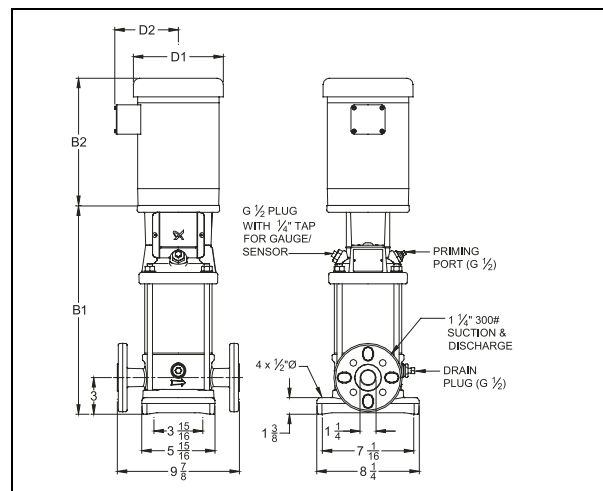
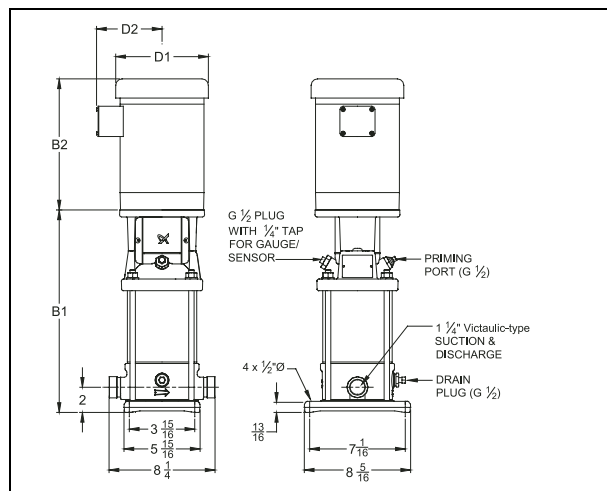
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	Oval B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	Oval ODP B1+B2	Oval TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft ³]	ANSI Ship Vol. ¹ [ft ³]
CRI 5-2	3/4	1	115/208-230	56C	11 1/8	12 1/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	22 1/8	21 1/8	23 1/8	22 1/8	47.1	55.7	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 3/8	20 1/2	22 3/8	21 1/2	47.1	55.7	1.8	1.8
CRI 5-3	1	1	115/208-230*	56C	12 1/4	13 1/4	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	23 1/2	23 1/2	24 1/2	24 1/2	49.7	58.3	1.8	1.8
		3	208-230/460	56C	12 1/4	13 1/4	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	22 1/2	22 1/2	23 1/2	23 1/2	49.7	58.3	1.8	1.8
CRI 5-4	1 1/2	1	115/208-230	56C	13 1/4	14 1/4	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	25	25	26	26	56.8	65.3	1.8	1.8
		3	208-230/460	56C	13 1/4	14 1/4	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	24	24	25	25	56.8	65.3	1.8	1.8
CRI 5-5	1 1/2	1	115/208-230*	56C	14 3/8	15 3/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	26 1/8	26 1/8	27 1/8	27 1/8	59.4	69.1	1.8	2.1
		3	208-230/460	56C	14 3/8	15 3/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	25 1/8	25 1/8	26 1/8	26 1/8	59.4	69.1	1.8	2.1
CRI 5-6	2	1	115/208-230*	56C	15 3/8	16 3/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	27 1/8	28	28 1/8	29	66.4	76.1	2.1	2.7
		3	208-230/460	56C	15 3/8	16 3/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	26 1/8	27 1/8	27 1/8	28 1/8	66.4	76.1	2.1	2.7
CRI 5-7	2	1	115/208-230*	56C	16 1/2	17 1/2	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	28 1/8	29 1/8	29 1/4	30 1/8	69.2	77.8	2.7	2.7
		3	208-230/460	56C	16 1/2	17 1/2	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	27 1/4	28 1/4	28 1/4	29 1/4	69.2	77.8	2.7	2.7
CRI 5-8	3	1	115/208-230	182TC	18 5/8	19 5/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	33 1/8	33 1/8	34 1/8	34 1/8	87.1	95.7	2.7	2.7
		3	208-230/460	182TC	18 5/8	19 5/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	33 1/8	33 1/8	34 1/8	34 1/8	87.1	95.7	2.7	2.7
CRI 5-9	3	1	115/208-230	182TC	19 5/8	20 5/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	34 1/8	34 1/8	35 1/8	35 1/8	88.0	96.6	2.7	2.7
		3	208-230/460	182TC	19 5/8	20 5/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	34 1/8	34 1/8	35 1/8	35 1/8	88.0	96.6	2.7	2.7
CRI 5-10	3	1	115/208-230	182TC	20 3/4	21 3/4	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	35 1/4	35 1/4	36 1/4	36 1/4	88.9	97.5	2.7	2.7
		3	208-230/460	182TC	20 3/4	21 3/4	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	35 1/4	35 1/4	36 1/4	36 1/4	88.9	97.5	2.7	2.7
CRI 5-11	5	1	208-230**	213TC	21 3/4	22 3/4	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	37 1/8	37 1/8	38 1/8	38 1/8	95.9	104.5	2.7	2.7
		3	208-230/460	184TC	21 3/4	22 3/4	14 1/8	7 1/4	5 1/8	16	8 1/2	6	35 7/8	37 3/4	36 7/8	38 3/4	95.9	104.5	2.7	2.7
CRI 5-12	5	1	208-230**	213TC	22 7/8	23 7/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	38 1/4	38 1/4	39 1/4	39 1/4	96.7	105.3	2.7	2.7
		3	208-230/460	184TC	22 7/8	23 7/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6	37	38 7/8	38	39 7/8	96.7	105.3	2.7	2.7
CRI 5-13	5	1	208-230**	213TC	23 7/8	24 7/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	39 1/4	39 1/4	40 1/4	40 1/4	98.1	107.8	2.7	3.8
		3	208-230/460	184TC	23 7/8	24 7/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6	38	39 7/8	39	40 7/8	98.1	107.8	2.7	3.8
CRI 5-14	5	1	208-230**	213TC	25	26	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	40 3/8	40 3/8	41 3/8	41 3/8	100.6	109.1	3.8	3.8
		3	208-230/460	184TC	25	26	14 1/8	7 1/4	5 1/8	16	8 1/2	6	39 1/8	41	40 1/8	42	100.6	109.1	3.8	3.8
CRI 5-15	5	1	208-230**	213TC	26	27	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	41 3/8	41 3/8	42 3/8	42 3/8	101.9	110.5	3.8	3.8
		3	208-230/460	184TC	26	27	14 1/8	7 1/4	5 1/8	16	8 1/2	6	40 1/8	42	41 1/8	43	101.9	110.5	3.8	3.8
CRI 5-16	5	1	208-230**	213TC	27 1/8	28 1/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	42 1/2	42 1/2	43 1/2	43 1/2	103.3	111.9	3.8	3.8
		3	208-230/460	184TC	27 1/8	28 1/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6	41 1/4	43 1/8	42 1/4	44 1/8	103.3	111.9	3.8	3.8
CRI 5-18	7 1/2	1	208-230	213TC		30 5/8	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2	15 3/8	15 3/8	46	46		144.4		3.8
		3	208-230/460	215TC		30 5/8	14 1/2	8 1/2	5 7/8	16	8 1/2	6	14 1/2	16	45 1/8	46 5/8		144.4		3.8
CRI 5-20	7 1/2	1	208-230	213TC		32 3/4	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2	15 3/8	15 3/8	48 1/8	48 1/8		147.2		3.8
		3	208-230/460	215TC		32 3/4	14 1/2	8 1/2	5 7/8	16	8 1/2	6	14 1/2	16	47 1/4	48 3/4		147.2		3.8
CRI 5-22	7 1/2	1	208-230	213TC		34 7/8	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2	15 3/8	15 3/8	50 1/4	50 1/4		149.5		3.8
		3	208-230/460	215TC		34 7/8	14 1/2	8 1/2	5 7/8	16	8 1/2	6	14 1/2	16	49 3/8	50 7/8		149.5		3.8
CRI 5-24	7 1/2	1	208-230	213TC		37	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2	15 3/8	15 3/8	52 3/8	52 3/8		154.1		3.8
		3	208-230/460	215TC		37	14 1/2	8 1/2	5 7/8	16	8 1/2	6	14 1/2	16	51 1/2	53		154.1		3.8

* TEFC voltage is 115/230 (**230)

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

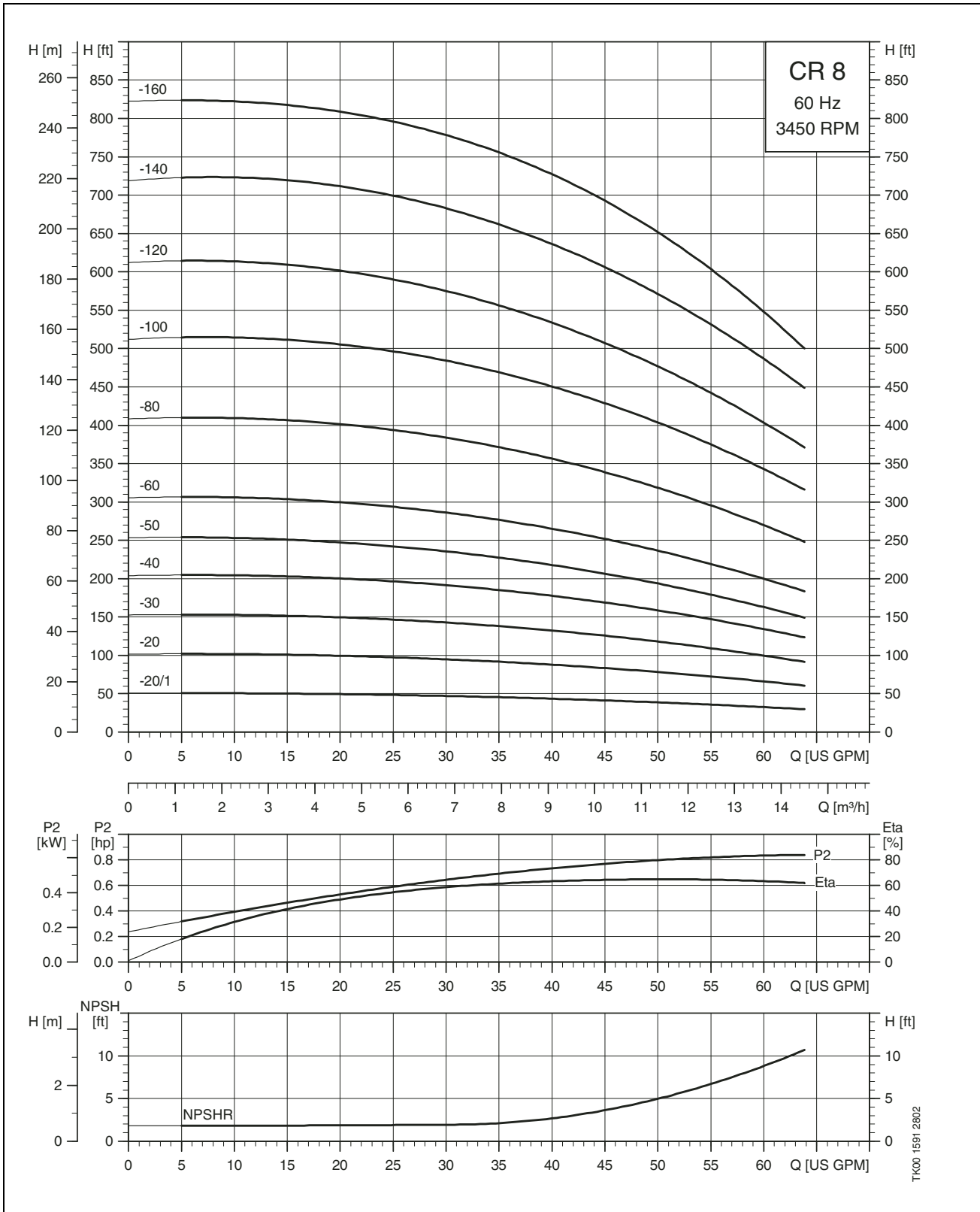


Dimensions and weights

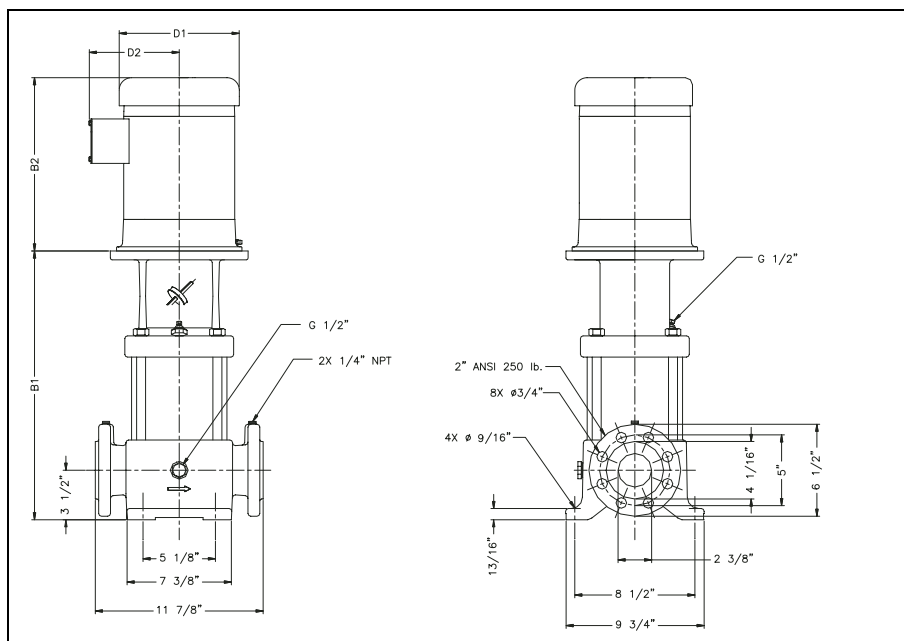
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	PJE B1	ANSI B1	ODP B2	D1	D2	TEFC B2	D1	D2	PJE ODP B1+B2	PJE TEFC B1+B2	ANSI ODP B1+B2	ANSI TEFC B1+B2	Oval Ship Wt. ¹ [lbs.]	ANSI Ship Wt. ¹ [lbs.]	Oval Ship Vol. ¹ [ft³]	ANSI Ship Vol. ¹ [ft³]
CRN 5-2	3/4	1	115/208-230	56C	11 1/8	12 1/8	11	6 1/4	4 1/2	10	6 1/4	4 5/8	22 1/8	21 1/8	23 1/8	22 1/8	47.7	55.7	1.8	1.8
		3	208-230/460	56C	11 1/8	12 1/8	10 1/4	6 1/4	4 1/2	9 3/8	6 1/4	4 5/8	21 3/8	20 1/2	22 3/8	21 1/2	47.7	55.7	1.8	1.8
CRN 5-3	1	1	115/208-230*	56C	12 1/4	13 1/4	11 1/4	6 1/4	4 1/2	11 1/4	7 1/4	5 1/4	23 1/2	23 1/2	24 1/2	24 1/2	50.4	58.3	1.8	1.8
		3	208-230/460	56C	12 1/4	13 1/4	10 1/4	6 1/4	4 1/2	10 1/4	6 1/4	4 5/8	22 1/2	22 1/2	23 1/2	23 1/2	50.4	58.3	1.8	1.8
CRN 5-4	1 1/2	1	115/208-230	56C	13 1/4	14 1/4	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	25	25	26	26	57.4	65.3	1.8	1.8
		3	208-230/460	56C	13 1/4	14 1/4	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	24	24	25	25	57.4	65.3	1.8	1.8
CRN 5-5	1 1/2	1	115/208-230	56C	14 3/8	15 3/8	11 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	26 1/8	26 1/8	27 1/8	27 1/8	60.1	69.1	1.8	2.1
		3	208-230/460	56C	14 3/8	15 3/8	10 3/4	6 1/4	4 1/2	10 3/4	7 1/4	5 1/4	25 1/8	25 1/8	26 1/8	26 1/8	60.1	69.1	1.8	2.1
CRN 5-6	2	1	115/208-230*	56C	15 3/8	16 3/8	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	27 1/8	28	28 1/8	29	67.1	76.1	2.1	2.7
		3	208-230/460	56C	15 3/8	16 3/8	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	26 1/8	27 1/8	28 1/8	28 1/8	67.1	76.1	2.1	2.7
CRN 5-7	2	1	115/208-230*	56C	16 1/2	17 1/2	11 3/4	7 1/4	5 1/8	12 5/8	7 1/4	5 1/4	28 1/4	29 1/8	29 1/4	30 1/8	69.9	77.8	2.7	2.7
		3	208-230/460	56C	16 1/2	17 1/2	10 3/4	7 1/4	5 1/8	11 3/4	7 1/4	5 1/4	27 1/4	28 1/4	28 1/4	29 1/4	69.9	77.8	2.7	2.7
CRN 5-8	3	1	115/208-230	182TC	18 5/8	19 5/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	33 1/8	33 1/8	34 1/8	34 1/8	87.8	95.7	2.7	2.7
		3	208-230/460	182TC	18 5/8	19 5/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	33 1/8	33 1/8	34 1/8	34 1/8	87.8	95.7	2.7	2.7
CRN 5-9	3	1	115/208-230	182TC	19 5/8	20 5/8	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	34 1/8	34 1/8	35 1/8	35 1/8	88.7	96.6	2.7	2.7
		3	208-230/460	182TC	19 5/8	20 5/8	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	34 1/8	34 1/8	35 1/8	35 1/8	88.7	96.6	2.7	2.7
CRN 5-10	3	1	115/208-230	182TC	20 3/4	21 3/4	14 1/2	8 1/2	5 7/8	14 1/2	8 1/2	6	35 1/4	35 1/4	36 1/4	36 1/4	89.5	97.5	2.7	2.7
		3	208-230/460	182TC	20 3/4	21 3/4	14 1/2	7 1/4	5 1/8	14 1/2	8 1/2	6	35 1/4	35 1/4	36 1/4	36 1/4	89.5	97.5	2.7	2.7
CRN 5-11	5	1	208-230**	213TC	21 3/4	22 3/4	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	37 1/8	37 1/8	38 1/8	38 1/8	96.5	104.5	2.7	2.7
		3	208-230/460	184TC	21 3/4	22 3/4	14 1/8	7 1/4	5 1/8	16	8 1/2	6	35 7/8	37 3/4	36 7/8	38 3/4	96.5	104.5	2.7	2.7
CRN 5-12	5	1	208-230**	213TC	22 7/8	23 7/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	38 1/4	38 1/4	39 1/4	39 1/4	97.4	105.3	2.7	2.7
		3	208-230/460	184TC	22 7/8	23 7/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6	37	38 7/8	38	39 7/8	97.4	105.3	2.7	2.7
CRN 5-13	5	1	208-230**	213TC	23 7/8	24 7/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	39 1/4	39 1/4	40 1/4	40 1/4	98.7	107.8	2.7	3.8
		3	208-230/460	184TC	23 7/8	24 7/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6	38	39 7/8	39	40 7/8	98.7	107.8	2.7	3.8
CRN 5-14	5	1	208-230**	213TC	25	26	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	40 3/8	40 3/8	41 3/8	41 3/8	101.2	109.1	3.8	3.8
		3	208-230/460	184TC	25	26	14 1/8	7 1/4	5 1/8	16	8 1/2	6	39 1/8	41	40 1/8	42	101.2	109.1	3.8	3.8
CRN 5-15	5	1	208-230**	213TC	26	27	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	41 3/8	41 3/8	42 3/8	42 3/8	102.6	110.5	3.8	3.8
		3	208-230/460	184TC	26	27	14 1/8	7 1/4	5 1/8	16	8 1/2	6	40 1/8	42	41 1/8	43	102.6	110.5	3.8	3.8
CRN 5-16	5	1	208-230**	213TC	27 1/8	28 1/8	15 3/8	8 1/2	7 3/8	15 3/8	10 5/8	7 1/2	42 1/2	42 1/2	43 1/2	43 1/2	104.0	111.9	3.8	3.8
		3	208-230/460	184TC	27 1/8	28 1/8	14 1/8	7 1/4	5 1/8	16	8 1/2	6	41 1/4	43 1/8	42 1/4	44 1/8	104.0	111.9	3.8	3.8
CRN 5-18	7 1/2	1	208-230	213TC	29 5/8	30 5/8	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2	45	45	46	46	136.5	144.4	3.8	3.8
		3	208-230/460	215TC	29 5/8	30 5/8	14 1/2	8 1/2	5 7/8	16	8 1/2	6	44 1/8	45 5/8	45 1/8	46 5/8	136.5	144.4	3.8	3.8
CRN 5-20	7 1/2	1	208-230	213TC	31 3/4	32 3/4	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2	47 1/8	47 1/8	48 1/8	48 1/8	139.3	147.2	3.8	3.8
		3	208-230/460	215TC	31 3/4	32 3/4	14 1/2	8 1/2	5 7/8	16	8 1/2	6	46 1/4	47 3/4	47 1/4	48 3/4	139.3	147.2	3.8	3.8
CRN 5-22	7 1/2	1	208-230	213TC	33 7/8	34 7/8	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2	49 1/4	49 1/4	50 1/4	50 1/4	141.5	149.5	3.8	3.8
		3	208-230/460	215TC	33 7/8	34 7/8	14 1/2	8 1/2	5 7/8	16	8 1/2	6	48 3/8	49 7/8	49 3/8	50 7/8	141.5	149.5	3.8	3.8
CRN 5-24	7 1/2	1	208-230	213TC	36	37	15 3/8	10 3/8	7 1/2	15 3/8	10 1/4	7 1/2	51 3/8	51 3/8	52 3/8	52 3/8	146.2	154.1	3.8	3.8
		3	208-230/460	215TC	36	37	14 1/2	8 1/2	5 7/8	16	8 1/2	6	50 1/2	52	51 1/2	53	146.2	154.1	3.8	3.8

* TEFC voltage is 115/230 (**230)

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

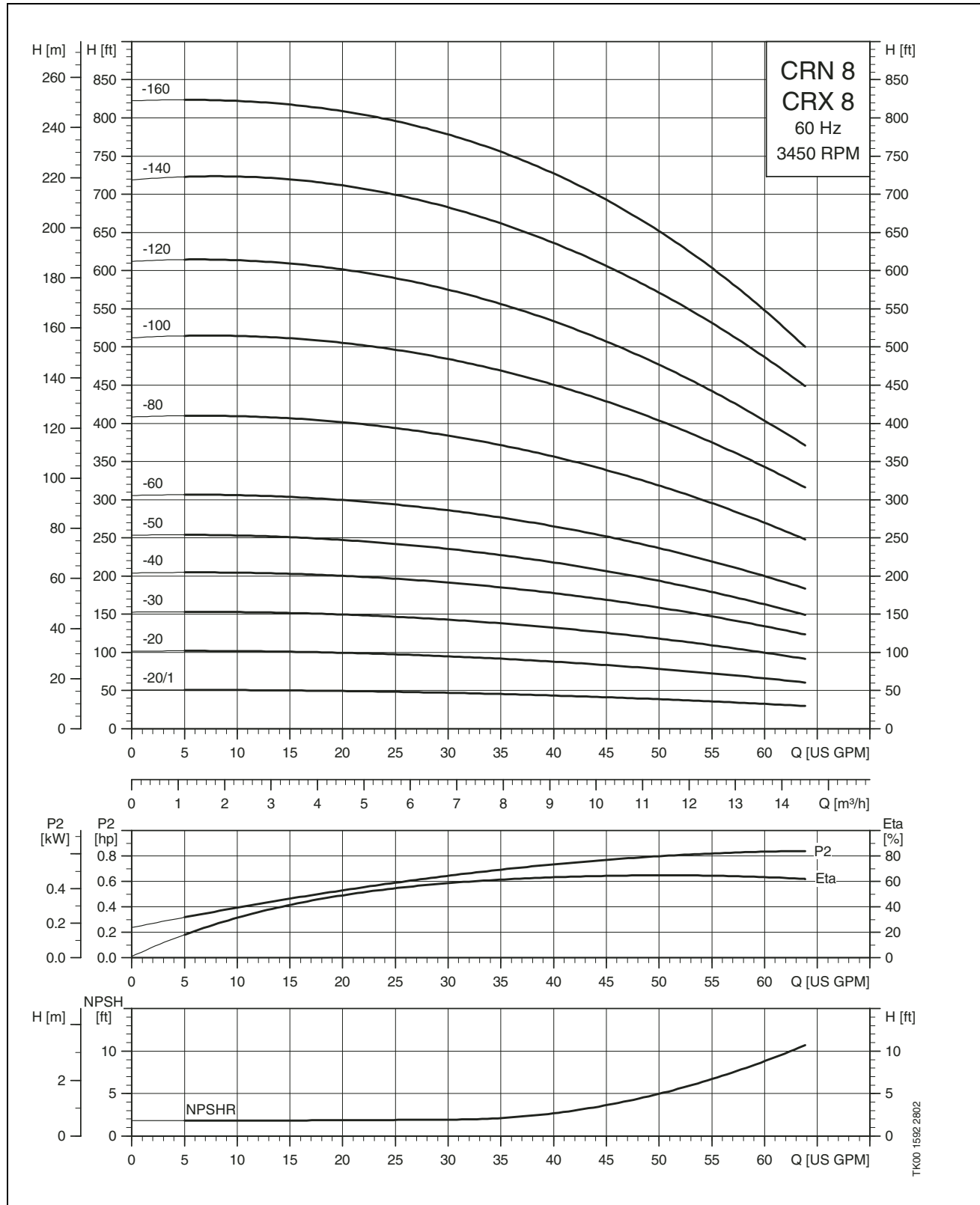


Dimensions and weights

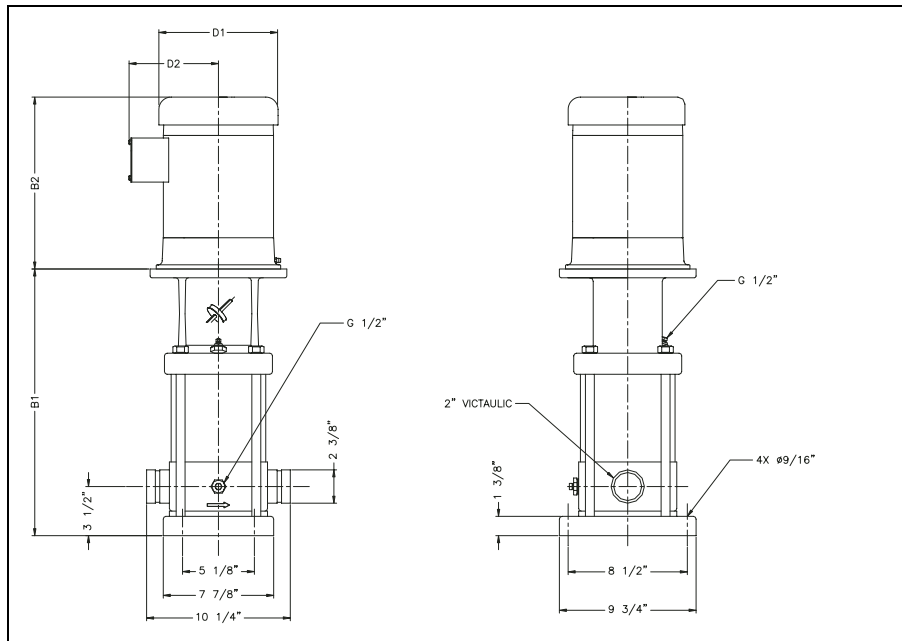
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CR 8-20/1	3/4	1	115/208-230	56C	13 1/4	10 3/4	6 1/4	4 1/2	24	10 3/8	6 1/2	4 3/4	23 5/8	104	4
		3	208-230/460	56C	13 1/4	9 1/4	6 1/4	4 1/2	22 1/2	9 3/4	6 1/2	4 3/4	23	99	4
CR 8-20	1 1/2	1	115/208-230	56C	13 1/2	11 1/4	7 1/4	5 1/8	24 3/4	11 5/8	7 1/2	5 1/2	25 1/8	115	4
		3	208-230/460	56C	13 1/2	10 3/4	6 1/4	4 1/2	24 1/4	10 5/8	7 1/2	5 1/2	24 1/8	110	4
CR 8-30	3	1	115/208-230	182TC	14 5/8	13 3/4	8 1/2	5 7/8	28 3/8	14 1/4	8 7/8	6 1/4	28 7/8	157	4
		3	208-230/460	182TC	14 5/8	11 1/2	7 1/4	5 1/8	26 1/8	12 7/8	8 7/8	6 1/4	27 1/2	150	4
CR 8-40	3	1	115/208-230	182TC	16 3/8	13 3/4	8 1/2	5 7/8	30 1/8	14 1/4	8 7/8	6 1/4	30 5/8	167	4
		3	208-230/460	182TC	16 3/8	11 1/2	7 1/4	5 1/8	27 7/8	12 7/8	8 7/8	6 1/4	29 1/4	146	4
CR 8-50	5	1	208-230*	182TC	17 5/8	15 3/8	8 1/2	7 3/8	33	15 7/8	11 1/8	7 3/4	33 1/2	215	4
		3	208-230/460	182TC	17 5/8	14 1/8	7 1/4	5 1/8	31 3/4	16 1/2	8 7/8	6 1/4	34 1/8	171	4
CR 8-60	5	1	208-230*	182TC	18 3/4	15 3/8	8 1/2	7 3/8	34 1/8	15 7/8	11 1/8	7 3/4	34 5/8	203	4
		3	208-230/460	182TC	18 3/4	14 1/8	7 1/4	5 1/8	32 7/8	16 1/2	8 7/8	6 1/4	35 1/4	184	4
CR 8-80	7 1/2	1	208-230	213TC	21 3/8	15 3/8	10 3/8	7 1/2	36 3/4	15 7/8	10 5/8	7 3/4	37 1/4	250	6
		3	208-230/460	213TC	21 3/8	14 1/2	8 1/2	5 7/8	35 7/8	16 1/2	8 7/8	6 1/4	37 7/8	205	6
CR 8-100	7 1/2	1	208-230	213TC	23 5/8	15 3/8	10 3/8	7 1/2	39	15 7/8	10 5/8	7 3/4	39 1/2	249	6
		3	208-230/460	213TC	23 5/8	14 1/2	8 1/2	5 7/8	38 1/8	16 1/2	8 7/8	6 1/4	40 1/8	209	6
CR 8-120	10	1	230	213TC	26	16 1/2	10 5/8	7 1/2	42 1/2	16 1/2	10 5/8	10 3/4	42 1/2	277	7
		3	208-230/460	213TC	26	15 3/8	10 5/8	7 3/8	41 3/8	15 7/8	10 3/4	7 3/4	41 7/8	223	7
CR 8-140	15	3	208-230/460	254TC	29 1/4	16 1/8	10 5/8	7 3/8	45 3/8	17 1/4	10 3/4	9 1/8	46 1/2	268	7
CR 8-160	15	3	208-230/460	254TC	31 1/2	16 1/8	10 5/8	7 3/8	47 5/8	17 1/4	10 3/4	9 1/8	48 3/4	345	7

* TEFC voltage is 230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

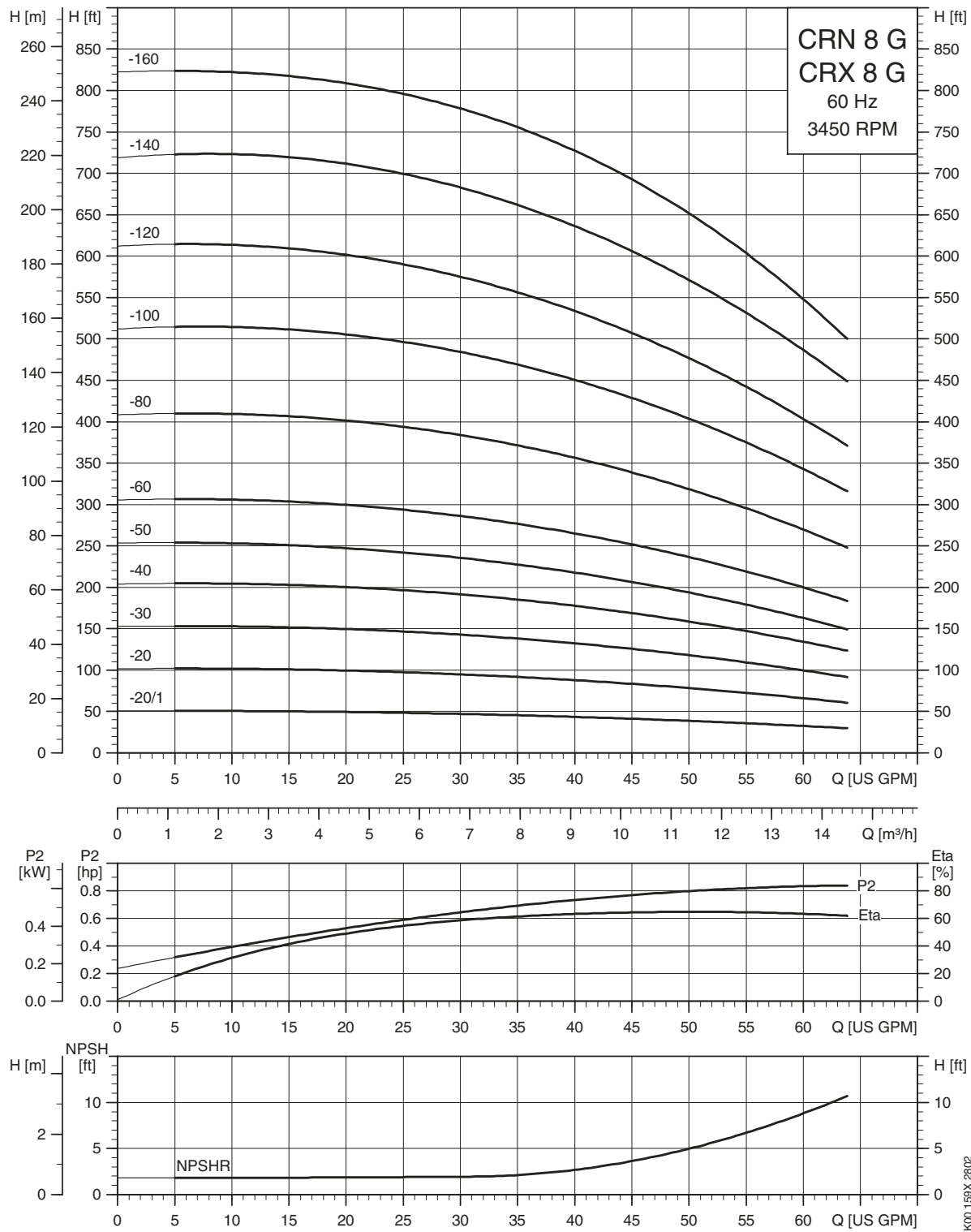


Dimensions and weights

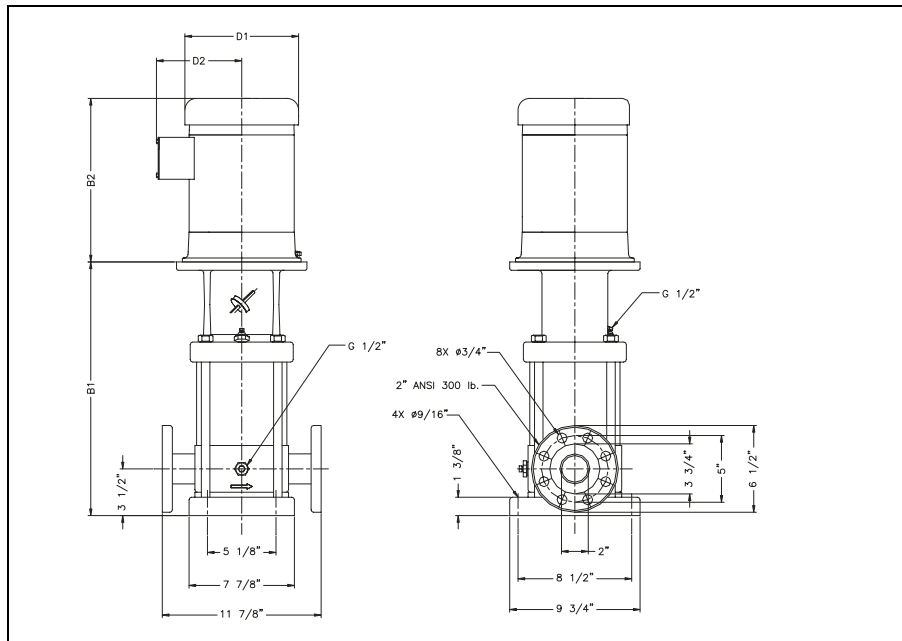
Pump Type	HP	PH	Voltage	NEMA Frame Size	ODP Motors					TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
					B1	B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CRN 8-20/1	3/4	1	115/208-230	56C	13 1/4	10 3/4	6 1/4	4 1/2	24	10 3/8	6 1/2	4 3/4	23 5/8	89	4
		3	208-230/460	56C	13 1/4	9 1/4	6 1/4	4 1/2	22 1/2	9 3/4	6 1/2	4 3/4	23	84	4
CRN 8-20	1 1/2	1	115/208-230	56C	13 1/2	11 1/4	7 1/4	5 1/8	24 3/4	11 5/8	7 1/2	5 1/2	25 1/8	100	4
		3	208-230/460	56C	13 1/2	10 3/4	6 1/4	4 1/2	24 1/4	10 5/8	7 1/2	5 1/2	24 1/8	95	4
CRN 8-30	3	1	115/208-230	182TC	14 5/8	13 3/4	8 1/2	5 7/8	28 3/8	14 1/4	8 7/8	6 1/4	28 7/8	142	4
		3	208-230/460	182TC	14 5/8	11 1/2	7 1/4	5 1/8	26 1/8	12 7/8	8 7/8	6 1/4	27 1/2	135	4
CRN 8-40	3	1	115/208-230	182TC	16 3/8	13 3/4	8 1/2	5 7/8	30 1/8	14 1/4	8 7/8	6 1/4	30 5/8	152	4
		3	208-230/460	182TC	16 3/8	11 1/2	7 1/4	5 1/8	27 7/8	12 7/8	8 7/8	6 1/4	29 1/4	131	4
CRN 8-50	5	1	208-230*	182TC	17 5/8	15 3/8	8 1/2	7 3/8	33	15 7/8	11 1/8	7 3/4	33 1/2	200	4
		3	208-230/460	182TC	17 5/8	14 1/8	7 1/4	5 1/8	31 3/4	16 1/2	8 7/8	6 1/4	34 1/8	156	4
CRN 8-60	5	1	208-230*	182TC	18 3/4	15 3/8	8 1/2	7 3/8	34 1/8	15 7/8	11 1/8	7 3/4	34 5/8	188	4
		3	208-230/460	182TC	18 3/4	14 1/8	7 1/4	5 1/8	32 7/8	16 1/2	8 7/8	6 1/4	35 1/4	169	4
CRN 8-80	7 1/2	1	208-230	213TC	21 3/8	15 3/8	10 3/8	7 1/2	36 3/4	15 7/8	10 5/8	7 3/4	37 1/4	235	6
		3	208-230/460	213TC	21 3/8	14 1/2	8 1/2	5 7/8	35 7/8	16 1/2	8 7/8	6 1/4	37 7/8	190	6
CRN 8-100	7 1/2	1	208-230	213TC	23 5/8	15 3/8	10 3/8	7 1/2	39	15 7/8	10 5/8	7 3/4	39 1/2	234	6
		3	208-230/460	213TC	23 5/8	14 1/2	8 1/2	5 7/8	38 1/8	16 1/2	8 7/8	6 1/4	40 1/8	194	6
CRN 8-120	10	1	230	213TC	26	16 1/2	10 5/8	7 1/2	42 1/2	16 1/2	10 5/8	10 3/4	42 1/2	262	7
		3	208-230/460	213TC	26	15 3/8	10 5/8	7 3/8	41 3/8	15 7/8	10 3/4	7 3/4	41 7/8	208	7
CRN 8-140	15	3	208-230/460	254TC	29 1/4	16 1/8	10 5/8	7 3/8	45 3/8	17 1/4	10 3/4	9 1/8	46 1/2	253	7
CRN 8-160	15	3	208-230/460	254TC	31 1/2	16 1/8	10 5/8	7 3/8	47 5/8	17 1/4	10 3/4	9 1/8	48 3/4	330	7

* TEFC voltage is 230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

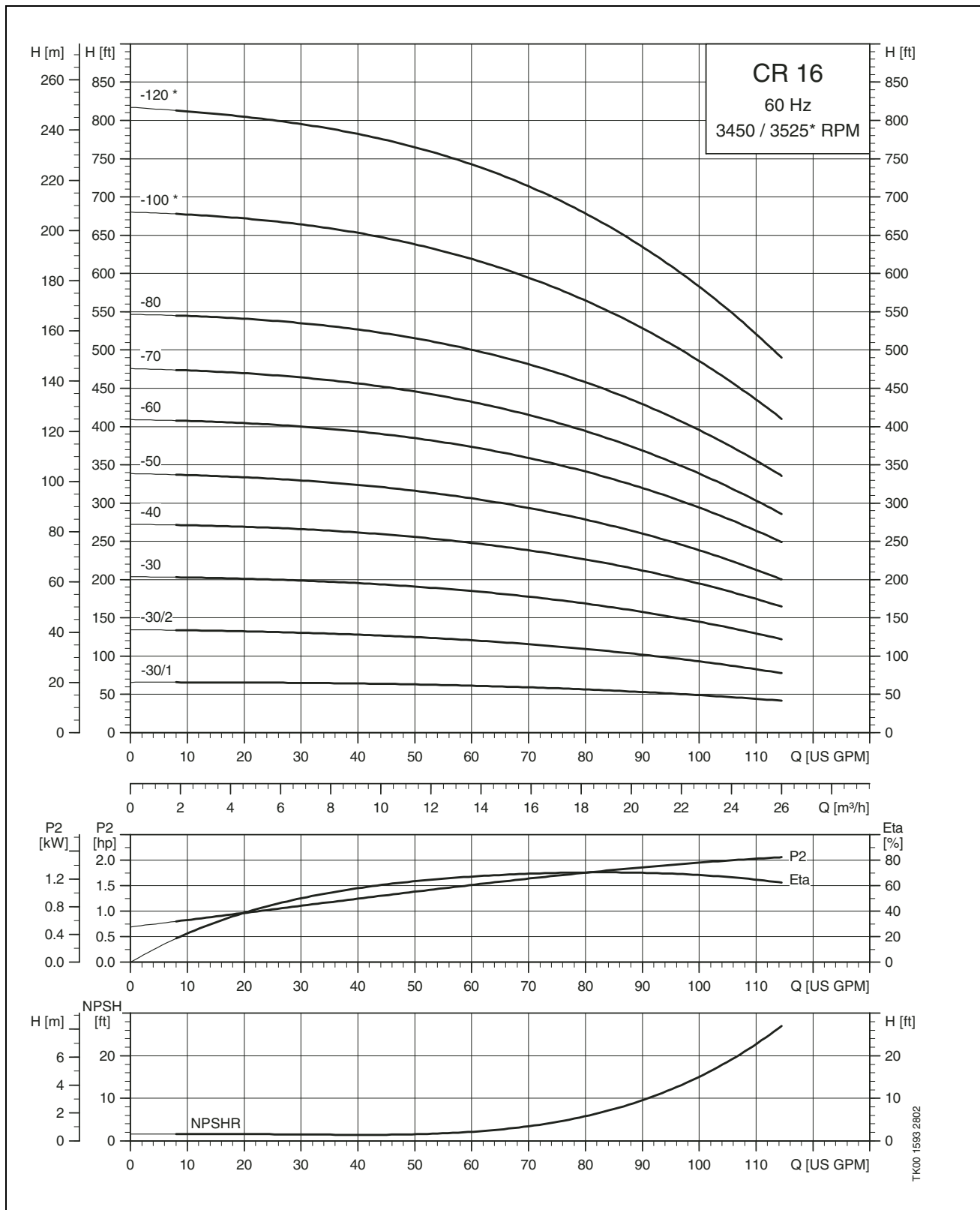


Dimensions and weights

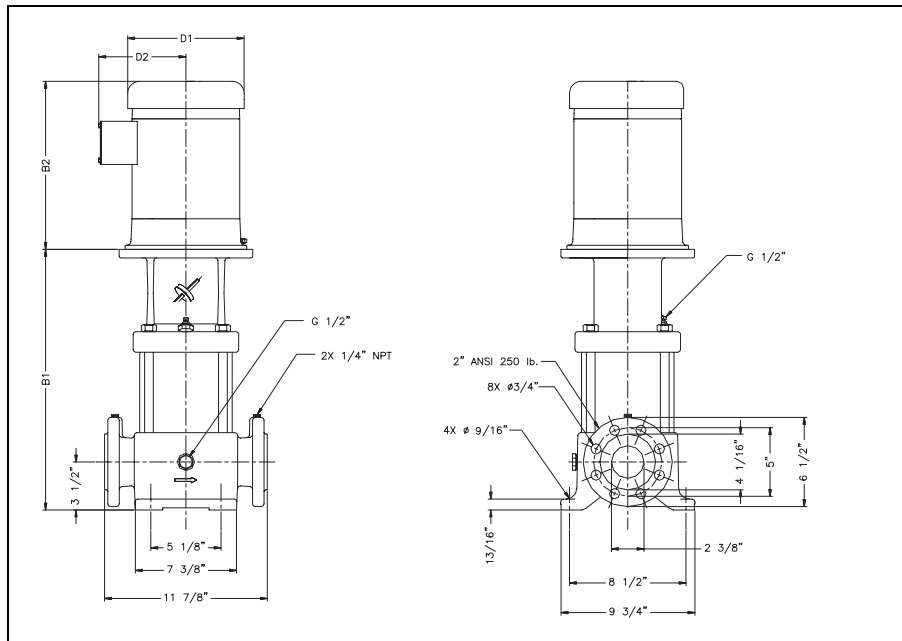
Pump Type	HP	PH	Voltage	NEMA Frame Size	ODP Motors					TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft³]
					B1	B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CRN 8-20/1 G	3/4	1	115/208-230	56C	13 1/4	10 3/4	6 1/4	4 1/2	24	10 3/8	6 1/2	4 3/4	23 5/8	89	4
		3	208-230/460	56C	13 1/4	9 1/4	6 1/4	4 1/2	22 1/2	9 3/4	6 1/2	4 3/4	23	84	4
CRN 8-20 G	1 1/2	1	115/208-230	56C	13 1/2	11 1/4	7 1/4	5 1/8	24 3/4	11 5/8	7 1/2	5 1/2	25 1/8	100	4
		3	208-230/460	56C	13 1/2	10 3/4	6 1/4	4 1/2	24 1/4	10 5/8	7 1/2	5 1/2	24 1/8	95	4
CRN 8-30 G	3	1	115/208-230	182TC	14 5/8	13 3/4	8 1/2	5 7/8	28 3/8	14 1/4	8 7/8	6 1/4	28 7/8	142	4
		3	208-230/460	182TC	14 5/8	11 1/2	7 1/4	5 1/8	26 1/8	12 7/8	8 7/8	6 1/4	27 1/2	135	4
CRN 8-40 G	3	1	115/208-230	182TC	16 3/8	13 3/4	8 1/2	5 7/8	30 1/8	14 1/4	8 7/8	6 1/4	30 5/8	152	4
		3	208-230/460	182TC	16 3/8	11 1/2	7 1/4	5 1/8	27 7/8	12 7/8	8 7/8	6 1/4	29 1/4	131	4
CRN 8-50 G	5	1	208-230*	182TC	17 5/8	15 3/8	8 1/2	7 3/8	33	15 7/8	11 1/8	7 3/4	33 1/2	200	4
		3	208-230/460	182TC	17 5/8	14 1/8	7 1/4	5 1/8	31 3/4	16 1/2	8 7/8	6 1/4	34 1/8	156	4
CRN 8-60 G	5	1	208-230*	182TC	18 3/4	15 3/8	8 1/2	7 3/8	34 1/8	15 7/8	11 1/8	7 3/4	34 5/8	188	4
		3	208-230/460	182TC	18 3/4	14 1/8	7 1/4	5 1/8	32 7/8	16 1/2	8 7/8	6 1/4	35 1/4	169	4
CRN 8-80 G	7 1/2	1	208-230	213TC	21 3/8	15 3/8	10 3/8	7 1/2	36 3/4	15 7/8	10 5/8	7 3/4	37 1/4	235	6
		3	208-230/460	213TC	21 3/8	14 1/2	8 1/2	5 7/8	35 7/8	16 1/2	8 7/8	6 1/4	37 7/8	190	6
CRN 8-100 G	7 1/2	1	208-230	213TC	23 5/8	15 3/8	10 3/8	7 1/2	39	15 7/8	10 5/8	7 3/4	39 1/2	234	6
		3	208-230/460	213TC	23 5/8	14 1/2	8 1/2	5 7/8	38 1/8	16 1/2	8 7/8	6 1/4	40 1/8	194	6
CRN 8-120 G	10	1	230	213TC	26	16 1/2	10 5/8	7 1/2	42 1/2	16 1/2	10 5/8	10 3/4	42 1/2	262	7
		3	208-230/460	213TC	26	15 3/8	10 5/8	7 3/8	41 3/8	15 7/8	10 3/4	7 3/4	41 7/8	208	7
CRN 8-140 G	15	3	208-230/460	254TC	29 1/4	16 1/8	10 5/8	7 3/8	45 3/8	17 1/4	10 3/4	9 1/8	46 1/2	253	7
CRN 8-160 G	15	3	208-230/460	254TC	31 1/2	16 1/8	10 5/8	7 3/8	47 5/8	17 1/4	10 3/4	9 1/8	48 3/4	330	7

* TEFC voltage is 230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

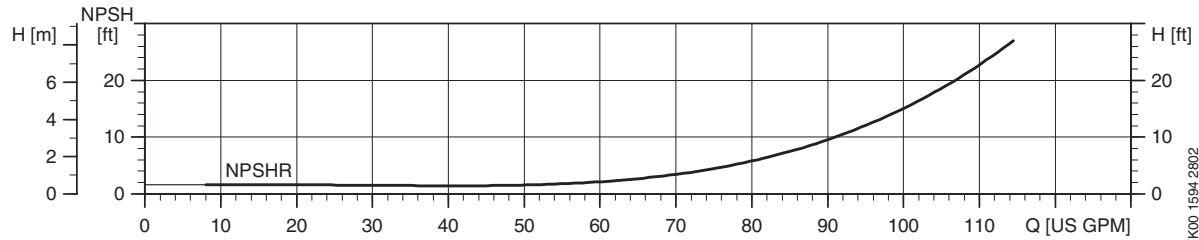
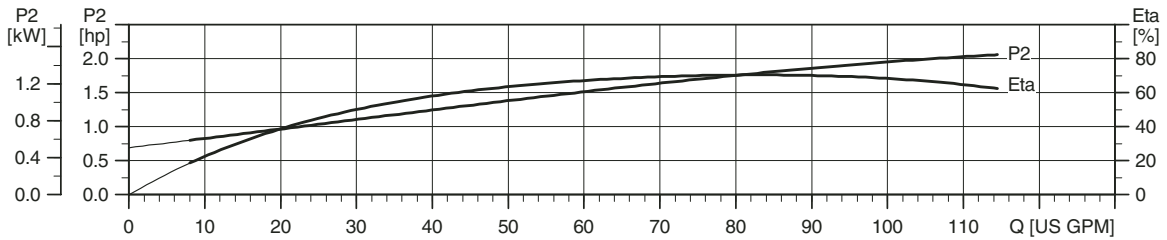
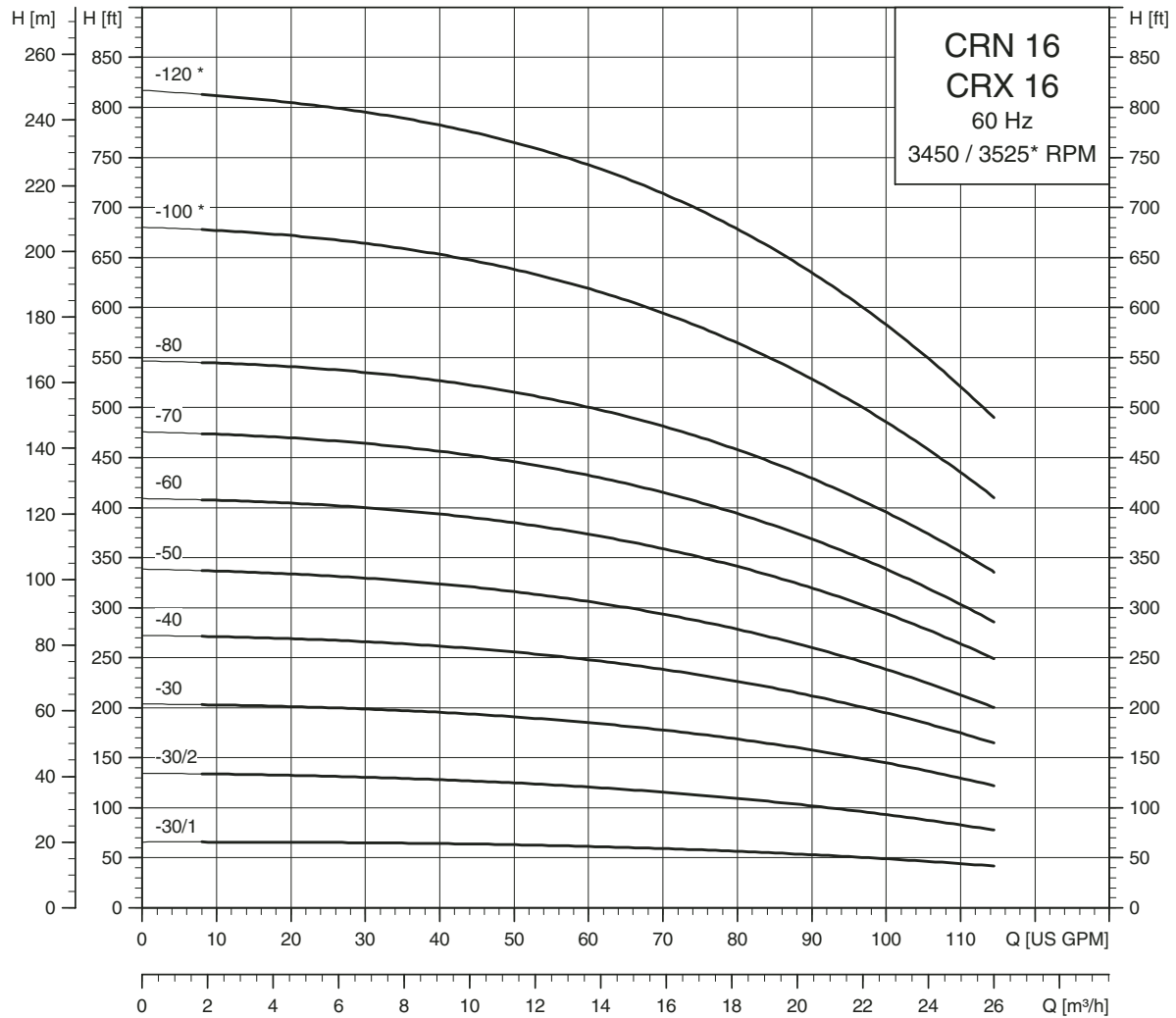


Dimensions and weights

Pump Type	Hp	Ph	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CR 16-30/1	3	1	115/208-230	182TC	18 1/8	13 3/4	8 1/2	5 7/8	31 7/8	14 1/4	8 7/8	6 1/4	32 3/8	162	4
		3	208-230/460	182TC	18 1/8	11 1/2	7 1/4	5 1/8	29 5/8	12 7/8	8 7/8	6 1/4	31	137	4
CR 16-30/2	5	1	208-230*	182TC	18 1/8	15 3/8	8 1/2	7 3/8	33 1/2	15 7/8	11 1/8	7 3/4	34	196	4
		3	208-230/460	182TC	18 1/8	14 1/8	7 1/4	5 1/8	32 1/4	16 1/2	8 7/8	6 1/4	34 5/8	161	4
CR 16-30	7 1/2	1	208-230	213TC	18 1/8	15 3/8	10 3/8	7 1/2	33 1/2	15 7/8	10 5/8	7 3/4	34	225	4
		3	208-230/460	213TC	18 1/8	14 1/2	8 1/2	5 7/8	32 5/8	16 1/2	8 7/8	6 1/4	34 5/8	182	4
CR 16-40	7 1/2	1	208-230	213TC	20	15 3/8	10 3/8	7 1/2	35 3/8	15 7/8	10 5/8	7 3/4	35 7/8	238	4
		3	208-230/460	213TC	20	14 1/2	8 1/2	5 7/8	34 1/2	16 1/2	8 7/8	6 1/4	36 1/2	189	4
CR 16-50	10	1	230	213TC	22 1/2	16 1/2	10 5/8	7 1/2	39	16 1/2	10 5/8	10 3/4	39	259	6
		3	208-230/460	213TC	22 1/2	15 3/8	10 5/8	7 3/8	37 7/8	15 7/8	10 3/4	7 3/4	38 3/8	219	6
CR 16-60	15	3	208-230/460	254TC	24 1/4	16 1/8	10 5/8	7 3/8	40 3/8	17 1/4	10 3/4	9 1/8	41 1/2	254	14
CR 16-70	15	3	208-230/460	254TC	26	16 1/8	10 5/8	7 3/8	42 1/8	17 1/4	10 3/4	9 1/8	43 1/4	247	14
CR 16-80	15	3	208-230/460	254TC	27 7/8	16 1/8	10 5/8	7 3/8	44	17 1/4	10 3/4	9 1/8	45 1/8	248	16
CR 16-100	20	3	230/460	284TSC	32 1/2	21	11 5/8	9	53 1/2	20 1/2	13 1/2	9 7/8	53	366	18
CR 16-120	25	3	230/460	284TSC	36 1/8	21	11 5/8	9	57 1/8	20 1/2	13 1/2	9 7/8	56 5/8	460	20

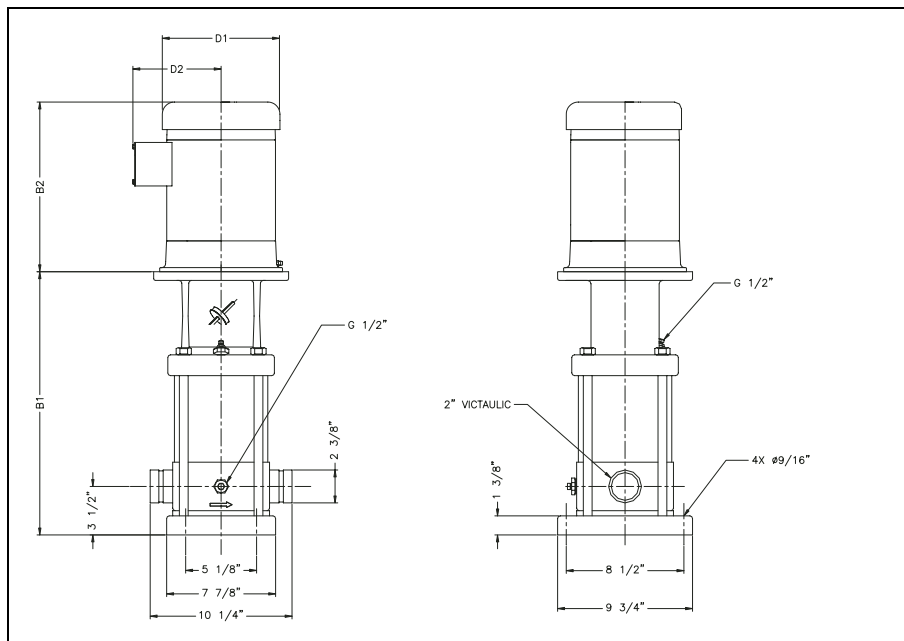
* TEFC voltage is 230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



TK00 1594 2802

Dimensional sketches

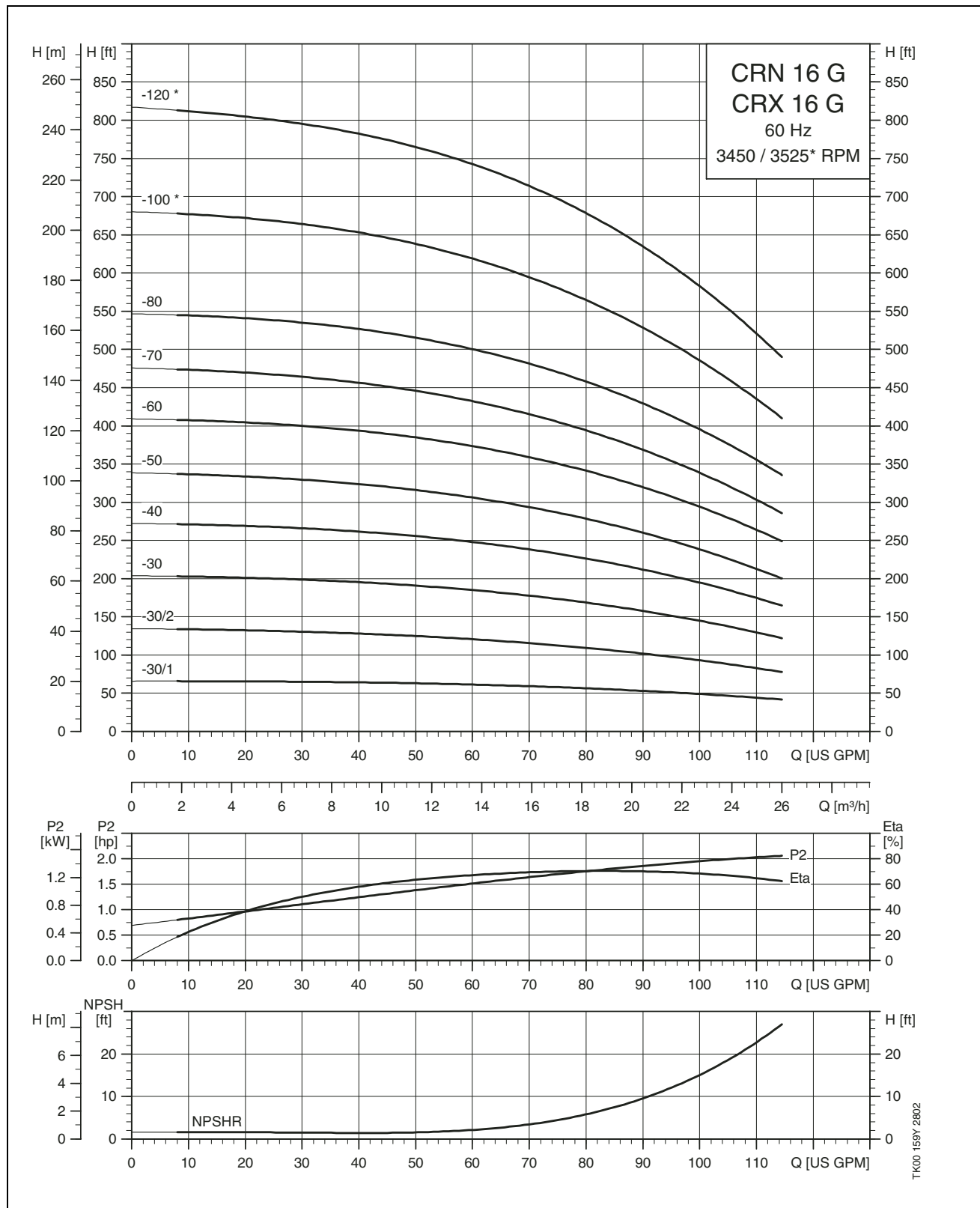


Dimensions and weights

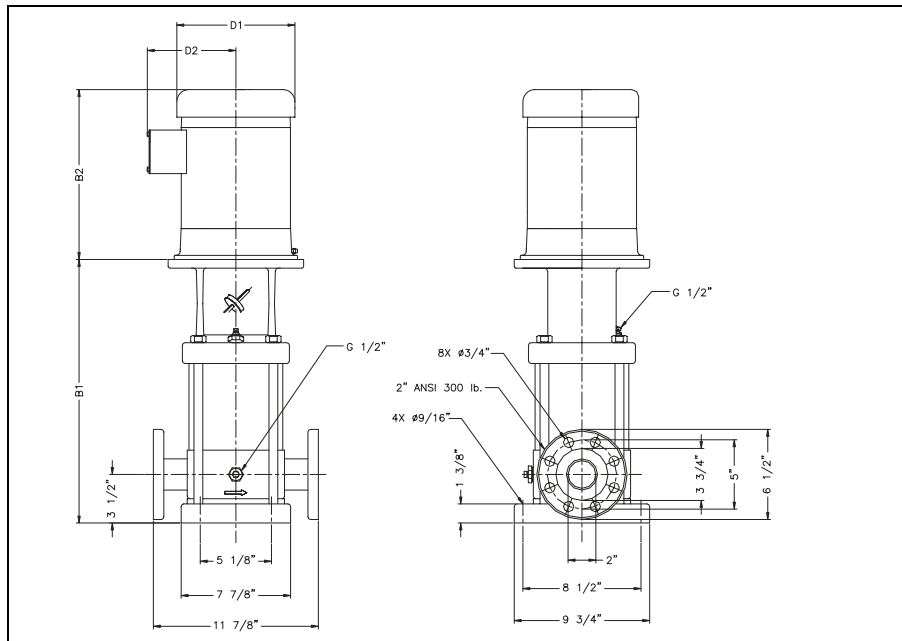
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CRN 16-30/1	3	1	115/208-230	182TC	18 1/8	13 3/4	8 1/2	5 7/8	31 7/8	14 1/4	8 7/8	6 1/4	32 3/8	147	4
		3	208-230/460	182TC	18 1/8	11 1/2	7 1/4	5 1/8	29 5/8	12 7/8	8 7/8	6 1/4	31	122	4
CRN 16-30/2	5	1	208-230*	182TC	18 1/8	15 3/8	8 1/2	7 3/8	33 1/2	15 7/8	11 1/8	7 3/4	34	181	4
		3	208-230/460	182TC	18 1/8	14 1/8	7 1/4	5 1/8	32 1/4	16 1/2	8 7/8	6 1/4	34 5/8	146	4
CRN 16-30	7 1/2	1	208-230	213TC	18 1/8	15 3/8	10 3/8	7 1/2	33 1/2	15 7/8	10 5/8	7 3/4	34	210	4
		3	208-230/460	213TC	18 1/8	14 1/2	8 1/2	5 7/8	32 5/8	16 1/2	8 7/8	6 1/4	34 5/8	167	4
CRN 16-40	7 1/2	1	208-230	213TC	20	15 3/8	10 3/8	7 1/2	35 3/8	15 7/8	10 5/8	7 3/4	35 7/8	223	4
		3	208-230/460	213TC	20	14 1/2	8 1/2	5 7/8	34 1/2	16 1/2	8 7/8	6 1/4	36 1/2	174	4
CRN 16-50	10	1	230	213TC	22 1/2	16 1/2	10 5/8	7 1/2	39	16 1/2	10 5/8	10 3/4	39	244	6
		3	208-230/460	213TC	22 1/2	15 3/8	10 5/8	7 3/8	37 7/8	15 7/8	10 3/4	7 3/4	38 3/8	204	6
CRN 16-60	15	3	208-230/460	254TC	24 1/4	16 1/8	10 5/8	7 3/8	40 3/8	17 1/4	10 3/4	9 1/8	41 1/2	239	14
CRN 16-70	15	3	208-230/460	254TC	26	16 1/8	10 5/8	7 3/8	42 1/8	17 1/4	10 3/4	9 1/8	43 1/4	232	14
CRN 16-80	15	3	208-230/460	254TC	27 7/8	16 1/8	10 5/8	7 3/8	44	17 1/4	10 3/4	9 1/8	45 1/8	233	16
CRN 16-100	20	3	230/460	284TSC	32 1/2	21	11 5/8	9	53 1/2	20 1/2	13 1/2	9 7/8	53	351	18
CRN 16-120	25	3	230/460	284TSC	36 1/8	21	11 5/8	9	57 1/8	20 1/2	13 1/2	9 7/8	56 5/8	445	20

* TEFC voltage is 230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

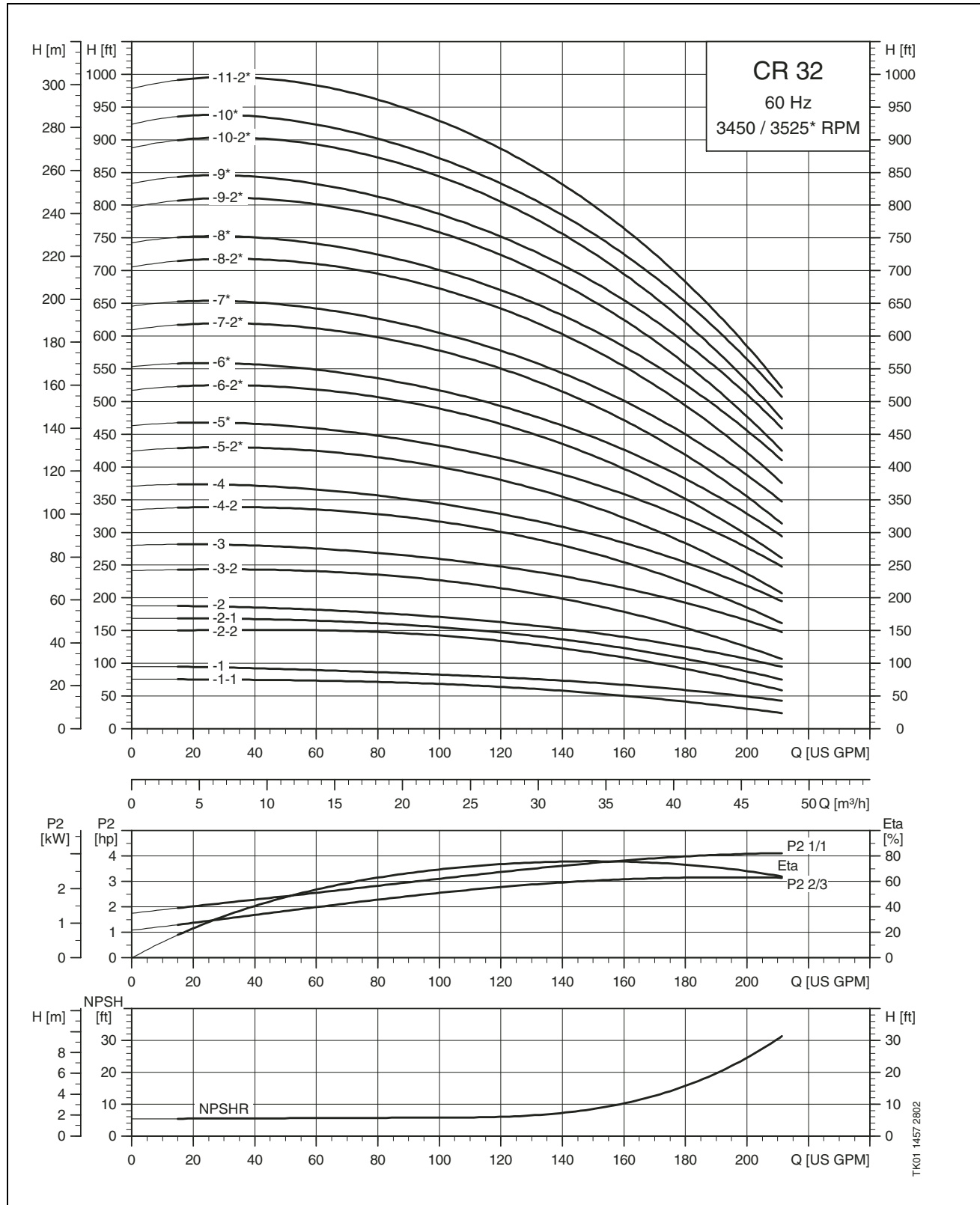


Dimensions and weights

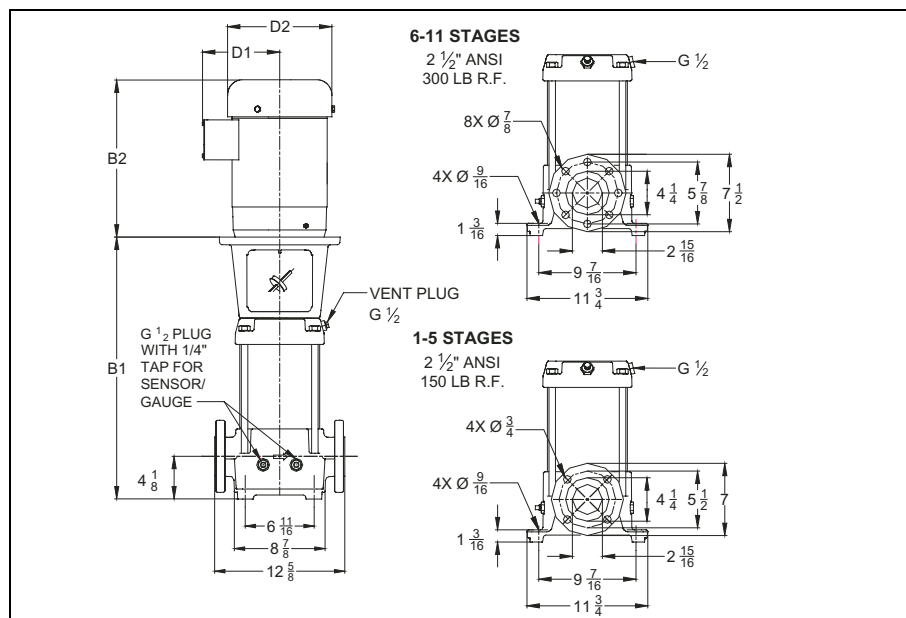
Pump Type	Hp	Pp	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CRN 16-30/1 G	3	1	115/208-230	182TC	18 1/8	13 3/4	8 1/2	5 7/8	31 7/8	14 1/4	8 7/8	6 1/4	32 3/8	147	4
		3	208-230/460	182TC	18 1/8	11 1/2	7 1/4	5 1/8	29 5/8	12 7/8	8 7/8	6 1/4	31	122	4
CRN 16-30/2 G	5	1	208-230*	182TC	18 1/8	15 3/8	8 1/2	7 3/8	33 1/2	15 7/8	11 1/8	7 3/4	34	181	4
		3	208-230/460	182TC	18 1/8	14 1/8	7 1/4	5 1/8	32 1/4	16 1/2	8 7/8	6 1/4	34 5/8	146	4
CRN 16-30 G	7 1/2	1	208-230	213TC	18 1/8	15 3/8	10 3/8	7 1/2	33 1/2	15 7/8	10 5/8	7 3/4	34	210	4
		3	208-230/460	213TC	18 1/8	14 1/2	8 1/2	5 7/8	32 5/8	16 1/2	8 7/8	6 1/4	34 5/8	167	4
CRN 16-40 G	7 1/2	1	208-230	213TC	20	15 3/8	10 3/8	7 1/2	35 3/8	15 7/8	10 5/8	7 3/4	35 7/8	223	4
		3	208-230/460	213TC	20	14 1/2	8 1/2	5 7/8	34 1/2	16 1/2	8 7/8	6 1/4	36 1/2	174	4
CRN 16-50 G	10	1	230	213TC	22 1/2	16 1/2	10 5/8	7 1/2	39	16 1/2	10 5/8	10 3/4	39	244	6
		3	208-230/460	213TC	22 1/2	15 3/8	10 5/8	7 3/8	37 7/8	15 7/8	10 3/4	7 3/4	38 3/8	204	6
CRN 16-60 G	15	3	208-230/460	254TC	24 1/4	16 1/8	10 5/8	7 3/8	40 3/8	17 1/4	10 3/4	9 1/8	41 1/2	239	14
CRN 16-70 G	15	3	208-230/460	254TC	26	16 1/8	10 5/8	7 3/8	42 1/8	17 1/4	10 3/4	9 1/8	43 1/4	232	14
CRN 16-80 G	15	3	208-230/460	254TC	27 7/8	16 1/8	10 5/8	7 3/8	44	17 1/4	10 3/4	9 1/8	45 1/8	233	16
CRN 16-100 G	20	3	230/460	284TSC	32 1/2	21	11 5/8	9	53 1/2	20 1/2	13 1/2	9 7/8	53	351	18
CRN 16-120 G	25	3	230/460	284TSC	36 1/8	21	11 5/8	9	57 1/8	20 1/2	13 1/2	9 7/8	56 5/8	445	20

* TEFC voltage is 230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

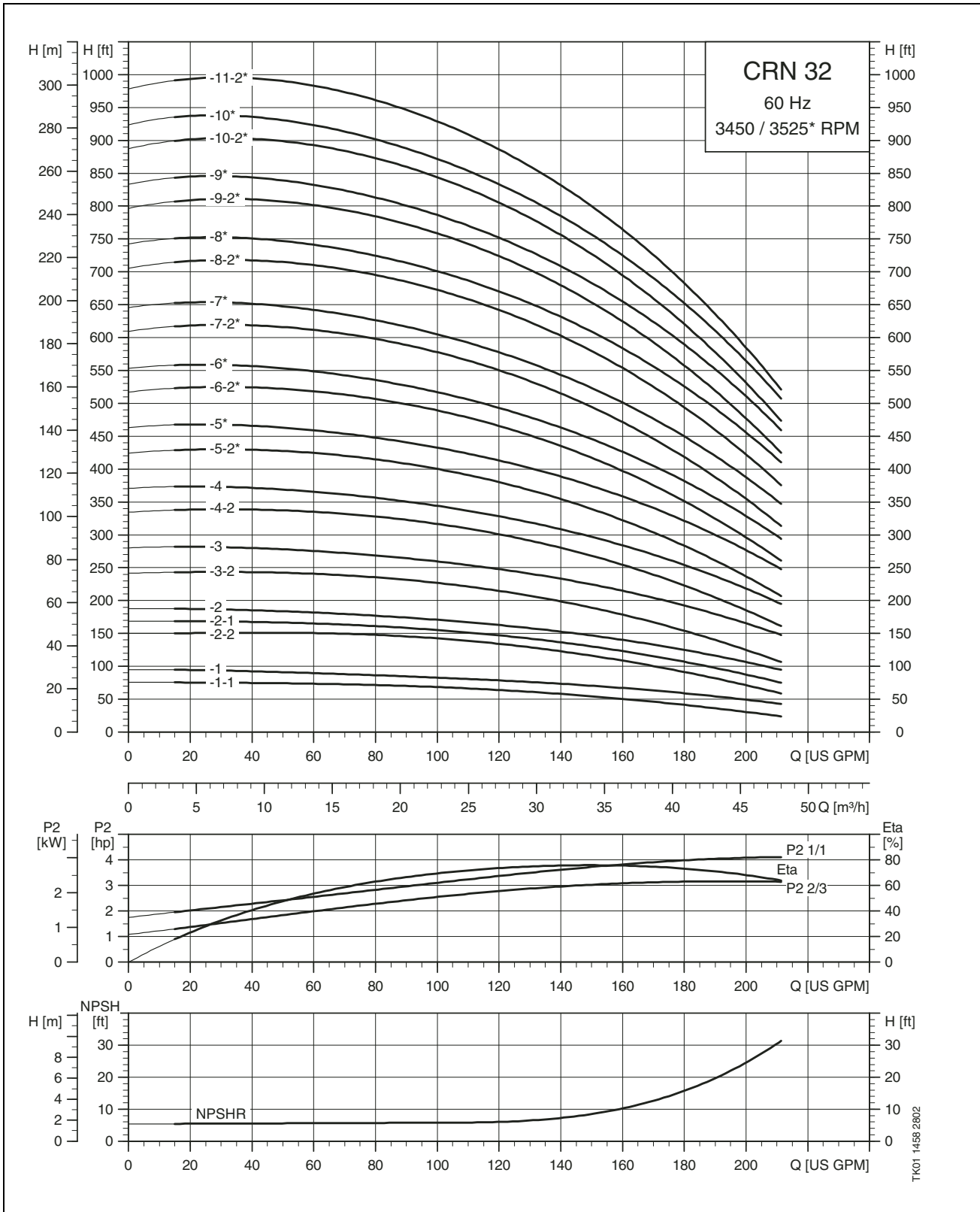


Dimensions and weights

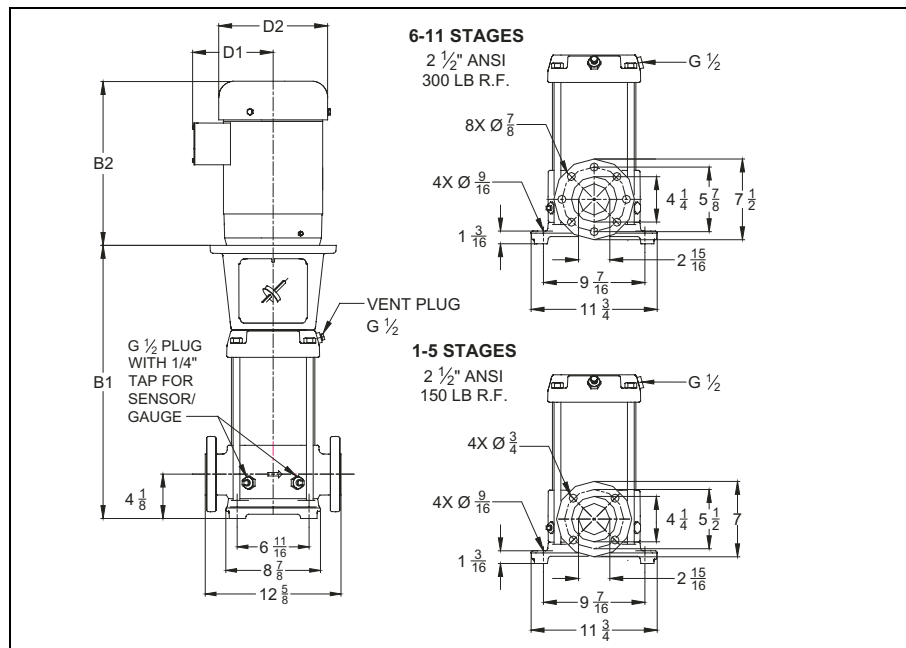
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CR 32-1-1	3	1	115/208-230	182TC	20	13 3/4	8 1/2	5 7/8	33 3/4	14 1/4	8 7/8	6 1/4	34 1/4	232	8.3
		3	208-230/460	182TC	20	11 1/2	7 1/4	5 1/8	31 1/2	12 7/8	8 7/8	6 1/4	32 7/8	207	8.3
CR 32-1	5	1	208-230*	182TC	20	15 3/8	8 1/2	7 3/8	35 3/8	15 7/8	11 1/8	7 3/4	35 7/8	256	8.3
		3	208-230/460	182TC	20	14 1/8	7 1/4	5 1/8	34 1/8	16 1/2	8 7/8	6 1/4	36 1/2	213	8.3
CR 32-2-2	7 1/2	1	208-230	213TC	22 3/4	15 3/8	10 3/8	7 1/2	38 1/8	15 7/8	10 5/8	7 3/4	38 5/8	277	8.3
		3	208-230/460	213TC	22 3/4	14 1/2	8 1/2	5 7/8	37 1/4	16 1/2	8 7/8	6 1/4	39 1/4	255	8.3
CR 32-2-1	7 1/2	1	208-230	213TC	22 3/4	15 3/8	10 3/8	7 1/2	38 1/8	15 7/8	10 5/8	7 3/4	38 5/8	277	8.3
		3	208-230/460	213TC	22 3/4	14 1/2	8 1/2	5 7/8	37 1/4	16 1/2	8 7/8	6 1/4	39 1/4	255	8.3
CR 32-2	7 1/2	1	208-230	213TC	22 3/4	15 3/8	10 3/8	7 1/2	38 1/8	15 7/8	10 5/8	7 3/4	38 5/8	277	8.3
		3	208-230/460	213TC	22 3/4	14 1/2	8 1/2	5 7/8	37 1/4	16 1/2	8 7/8	6 1/4	39 1/4	255	8.3
CR 32-3-2	10	1	230	213TC	25 5/8	16 1/2	10 5/8	7 1/2	42 1/8	16 1/2	10 5/8	10 3/4	42 1/8	334	13.2
		3	208-230/460	213TC	25 5/8	15 3/8	10 5/8	7 3/8	41	15 7/8	10 3/4	7 3/4	41 1/2	290	13.2
CR 32-3	15	3	208-230/460	254TC	29 3/4	16 1/8	10 5/8	7 3/8	45 7/8	17 1/4	10 3/4	9 1/8	47	326	13.2
CR 32-4-2	15	3	208-230/460	254TC	32 1/2	16 1/8	10 5/8	7 3/8	48 5/8	17 1/4	10 3/4	9 1/8	49 3/4	441	28.5
CR 32-4	15	3	208-230/460	254TC	32 1/2	16 1/8	10 5/8	7 3/8	48 5/8	17 1/4	10 3/4	9 1/8	49 3/4	441	28.5
CR 32-5-2	20	3	230/460	254TC	35 1/4	19 1/4	11 1/2	9	54 1/2	17	10 3/4	9	52 1/4	507	28.5
CR 32-5	20	3	230/460	254TC	35 1/4	19 1/4	11 1/2	9	54 1/2	17	10 3/4	9	52 1/4	507	28.5
CR 32-6-2	25	3	230/460	284TSC	38	21	11 5/8	9	59	20 1/2	13 1/2	9 7/8	58 1/2	546	45.6
CR 32-6	25	3	230/460	284TSC	38	21	11 5/8	9	59	20 1/2	13 1/2	9 7/8	58 1/2	546	45.6
CR 32-7-2	25	3	230/460	284TSC	40 3/4	21	11 5/8	9	61 3/4	20 1/2	13 1/2	9 7/8	61 1/4	555	45.6
CR 32-7	30	3	230/460	284TSC	40 3/4	19 3/4	12 1/2	9	60 1/2	23 7/8	16 1/4	13 5/8	64 5/8	601	45.6
CR 32-8-2	30	3	230/460	284TSC	43 5/8	19 3/4	12 1/2	9	63 3/8	23 7/8	16 1/4	13 5/8	67 1/2	610	45.6
CR 32-8	30	3	230/460	284TSC	43 5/8	19 3/4	12 1/2	9	63 3/8	23 7/8	16 1/4	13 5/8	67 1/2	610	45.6
CR 32-9-2	40	3	230/460	286TSC	46 3/8	21	13 3/8	12 1/4	67 3/8	23 7/8	16 1/4	13 5/8	70 1/4	696	45.6
CR 32-9	40	3	230/460	286TSC	46 3/8	21	13 3/8	12 1/4	67 3/8	23 7/8	16 1/4	13 5/8	70 1/4	696	45.6
CR 32-10-2	40	3	230/460	286TSC	49 1/8	21	13 3/8	12 1/4	70 1/8	23 7/8	16 1/4	13 5/8	73	705	45.6
CR 32-10	40	3	230/460	286TSC	49 1/8	21	13 3/8	12 1/4	70 1/8	23 7/8	16 1/4	13 5/8	73	705	56.1
CR 32-11-2	40	3	230/460	286TSC	51 7/8	21	13 3/8	12 1/4	72 7/8	23 7/8	16 1/4	13 5/8	75 3/4	731	56.1

*TEFC voltage is 230V

¹Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches

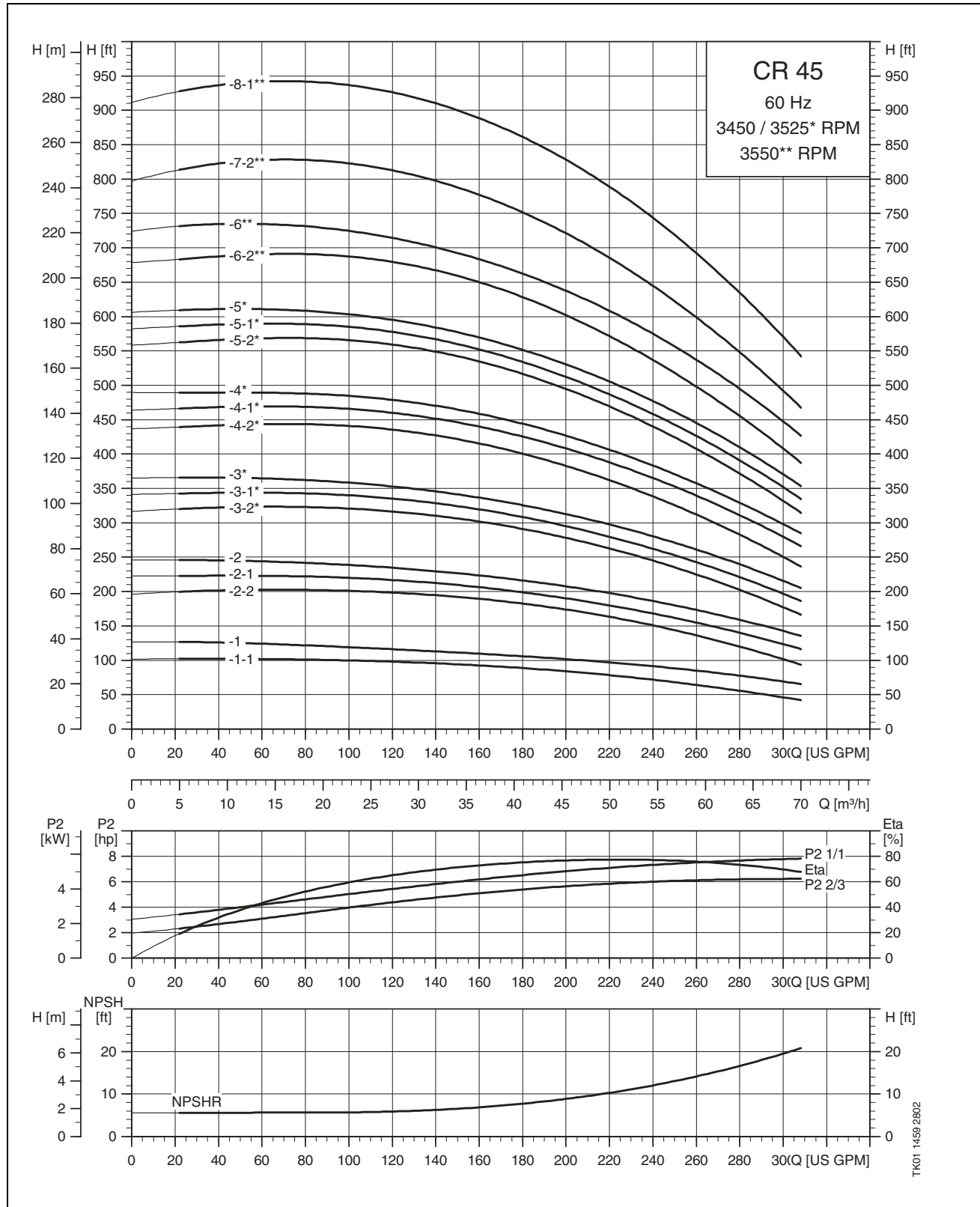


Dimensions and weights

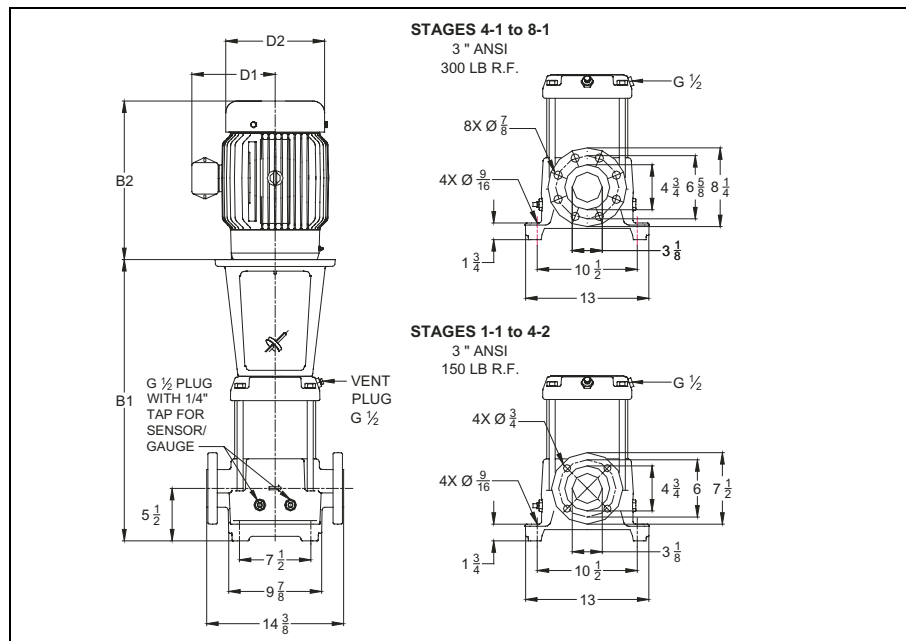
Pump Type	Hp	Ph	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CRN 32-1-1	3	1	115/208-230	182TC	20	13 3/4	8 1/2	5 7/8	33 3/4	14 1/4	8 7/8	6 1/4	34 1/4	232	8.3
		3	208-230/460	182TC	20	11 1/2	7 1/4	5 1/8	31 1/2	12 7/8	8 7/8	6 1/4	32 7/8	207	8.3
CRN 32-1	5	1	208-230*	182TC	20	15 3/8	8 1/2	7 3/8	35 3/8	15 7/8	11 1/8	7 3/4	35 7/8	256	8.3
		3	208-230/460	182TC	20	14 1/8	7 1/4	5 1/8	34 1/8	16 1/2	8 7/8	6 1/4	36 1/2	213	8.3
CRN 32-2-2	7 1/2	1	208-230	213TC	22 3/4	15 3/8	10 3/8	7 1/2	38 1/8	15 7/8	10 5/8	7 3/4	38 5/8	277	8.3
		3	208-230/460	213TC	22 3/4	14 1/2	8 1/2	5 7/8	37 1/4	16 1/2	8 7/8	6 1/4	39 1/4	255	8.3
CRN 32-2-1	7 1/2	1	208-230	213TC	22 3/4	15 3/8	10 3/8	7 1/2	38 1/8	15 7/8	10 5/8	7 3/4	38 5/8	277	8.3
		3	208-230/460	213TC	22 3/4	14 1/2	8 1/2	5 7/8	37 1/4	16 1/2	8 7/8	6 1/4	39 1/4	255	8.3
CRN 32-2	7 1/2	1	208-230	213TC	22 3/4	15 3/8	10 3/8	7 1/2	38 1/8	15 7/8	10 5/8	7 3/4	38 5/8	277	8.3
		3	208-230/460	213TC	22 3/4	14 1/2	8 1/2	5 7/8	37 1/4	16 1/2	8 7/8	6 1/4	39 1/4	255	8.3
CRN 32-3-2	10	1	230	213TC	25 5/8	16 1/2	10 5/8	7 1/2	42 1/8	16 1/2	10 5/8	10 3/4	42 1/8	334	13.2
		3	208-230/460	213TC	25 5/8	15 3/8	10 5/8	7 3/8	41	15 7/8	10 3/4	7 3/4	41 1/2	290	13.2
CRN 32-3	15	3	208-230/460	254TC	29 3/4	16 1/8	10 5/8	7 3/8	45 7/8	17 1/4	10 3/4	9 1/8	47	326	13.2
CRN 32-4-2	15	3	208-230/460	254TC	32 1/2	16 1/8	10 5/8	7 3/8	48 5/8	17 1/4	10 3/4	9 1/8	49 3/4	441	28.5
CRN 32-4	15	3	208-230/460	254TC	32 1/2	16 1/8	10 5/8	7 3/8	48 5/8	17 1/4	10 3/4	9 1/8	49 3/4	441	28.5
CRN 32-5-2	20	3	230/460	254TC	35 1/4	19 1/4	11 1/2	9	54 1/2	17	10 3/4	9	52 1/4	507	28.5
CRN 32-5	20	3	230/460	254TC	35 1/4	19 1/4	11 1/2	9	54 1/2	17	10 3/4	9	52 1/4	507	28.5
CRN 32-6-2	25	3	230/460	284TSC	38	21	11 5/8	9	59	20 1/2	13 1/2	9 7/8	58 1/2	546	45.6
CRN 32-6	25	3	230/460	284TSC	38	21	11 5/8	9	59	20 1/2	13 1/2	9 7/8	58 1/2	546	45.6
CRN 32-7-2	25	3	230/460	284TSC	40 3/4	21	11 5/8	9	61 3/4	20 1/2	13 1/2	9 7/8	61 1/4	555	45.6
CRN 32-7	30	3	230/460	284TSC	40 3/4	19 3/4	12 1/2	9	60 1/2	23 7/8	16 1/4	13 5/8	64 5/8	601	45.6
CRN 32-8-2	30	3	230/460	284TSC	43 5/8	19 3/4	12 1/2	9	63 3/8	23 7/8	16 1/4	13 5/8	67 1/2	610	45.6
CRN 32-8	30	3	230/460	284TSC	43 5/8	19 3/4	12 1/2	9	63 3/8	23 7/8	16 1/4	13 5/8	67 1/2	610	45.6
CRN 32-9-2	40	3	230/460	286TSC	46 3/8	21	13 3/8	12 1/4	67 3/8	23 7/8	16 1/4	13 5/8	70 1/4	696	45.6
CRN 32-9	40	3	230/460	286TSC	46 3/8	21	13 3/8	12 1/4	67 3/8	23 7/8	16 1/4	13 5/8	70 1/4	696	45.6
CRN 32-10-2	40	3	230/460	286TSC	49 1/8	21	13 3/8	12 1/4	70 1/8	23 7/8	16 1/4	13 5/8	73	705	45.6
CRN 32-10	40	3	230/460	286TSC	49 1/8	21	13 3/8	12 1/4	70 1/8	23 7/8	16 1/4	13 5/8	73	705	56.1
CRN 32-11-2	40	3	230/460	286TSC	51 7/8	21	13 3/8	12 1/4	72 7/8	23 7/8	16 1/4	13 5/8	75 3/4	731	56.1

* TEFC voltage is 230

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



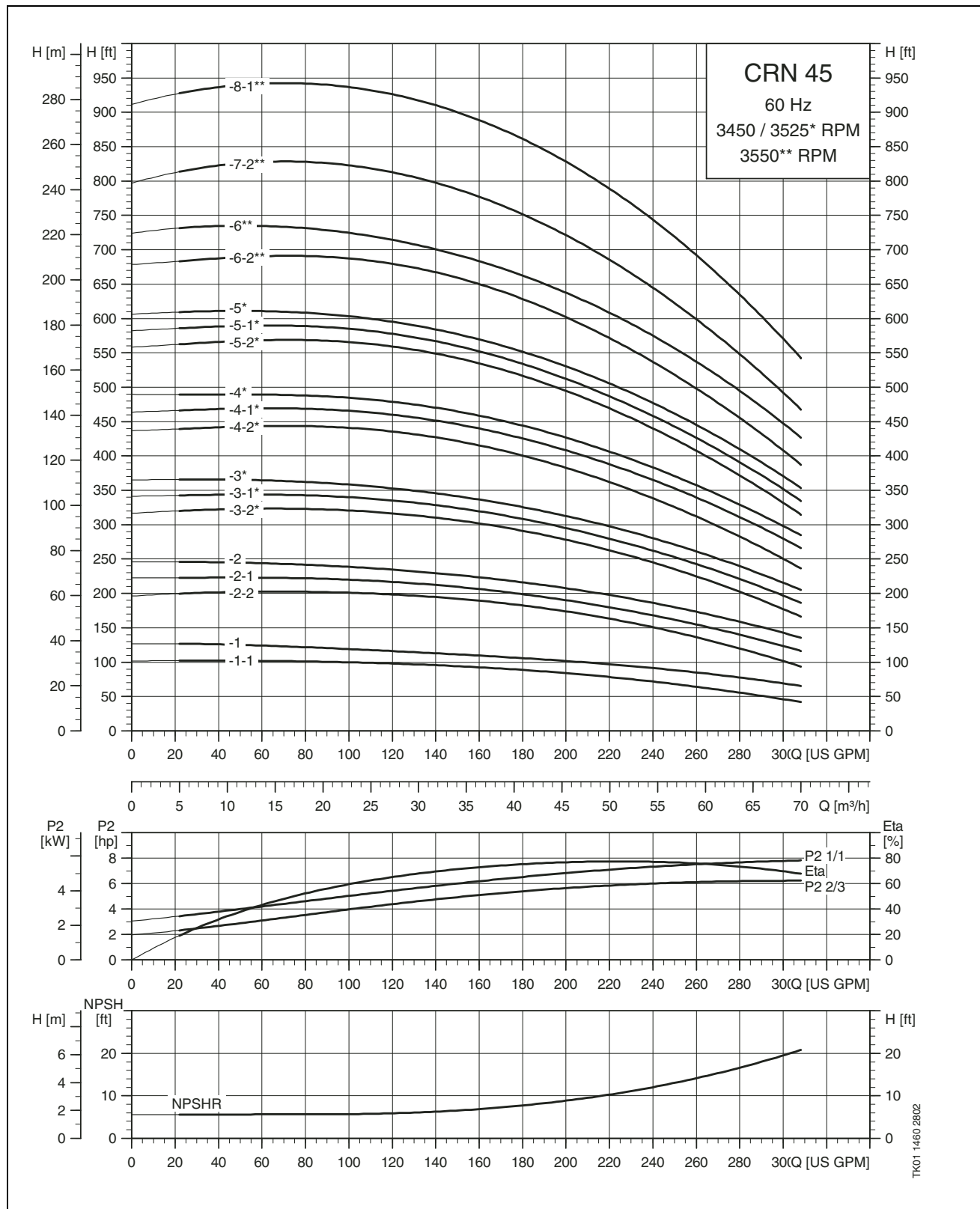
Dimensional sketches



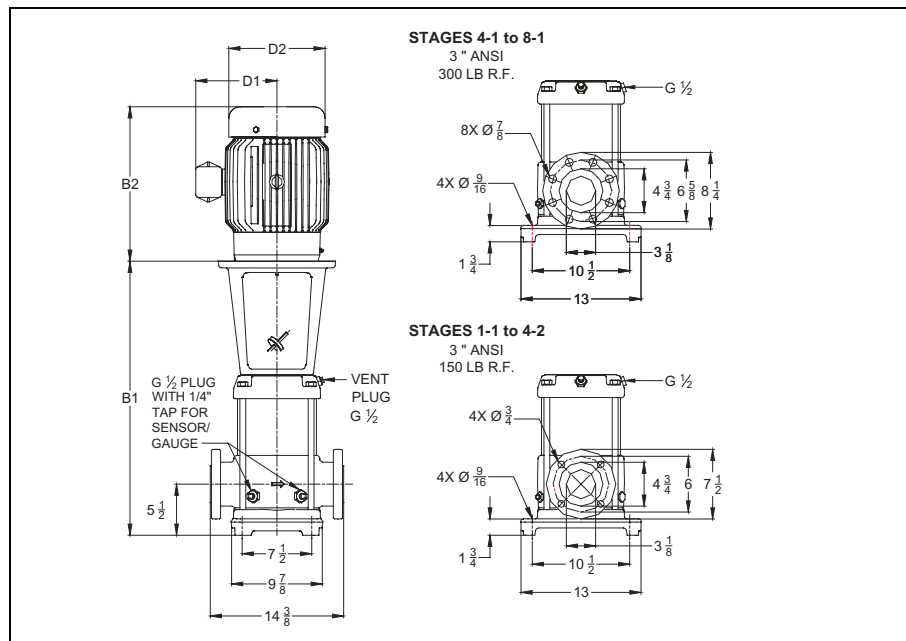
Dimensions and weights

Pump Type	Hp	Ph	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CR 45-1-1	7 1/2	1	208-230	213TC	22	15 3/8	10 3/8	7 1/2	37 3/8	15 7/8	10 5/8	7 3/4	37 7/8	301	8.3
		3	208-230/460	213TC	22	14 1/2	8 1/2	5 7/8	36 1/2	16 1/2	8 7/8	6 1/4	38 1/2	281	8.3
CR 45-1	7 1/2	1	208-230	213TC	22	15 3/8	10 3/8	7 1/2	37 3/8	15 7/8	10 5/8	7 3/4	37 7/8	301	8.3
		3	208-230/460	213TC	22	14 1/2	8 1/2	5 7/8	36 1/2	16 1/2	8 7/8	6 1/4	38 1/2	281	8.3
CR 45-2-2	15	3	208-230/460	254TC	29 1/2	16 1/8	10 5/8	7 3/8	45 5/8	17 1/4	10 3/4	9 1/8	46 3/4	387	13.2
CR 45-2-1	15	3	208-230/460	254TC	29 1/2	16 1/8	10 5/8	7 3/8	45 5/8	17 1/4	10 3/4	9 1/8	46 3/4	387	13.2
CR 45-2	15	3	208-230/460	254TC	29 1/2	16 1/8	10 5/8	7 3/8	45 5/8	17 1/4	10 3/4	9 1/8	46 3/4	387	13.2
CR 45-3-2	20	3	230/460	254TC	32 5/8	19 1/4	11 1/2	9	51 7/8	17	10 3/4	9	49 5/8	569	28.5
CR 45-3-1	25	3	230/460	284TSC	32 5/8	21	11 5/8	9	53 5/8	20 1/2	13 1/2	9 7/8	53 1/8	622	28.5
CR 45-3	25	3	230/460	284TSC	32 5/8	21	11 5/8	9	53 5/8	20 1/2	13 1/2	9 7/8	53 1/8	622	28.5
CR 45-4-2	30	3	230/460	284TSC	35 3/4	19 3/4	12 1/2	9	55 1/2	23 7/8	16 1/4	13 5/8	59 5/8	809	28.5
CR 45-4-1	30	3	230/460	284TSC	35 3/4	19 3/4	12 1/2	9	55 1/2	23 7/8	16 1/4	13 5/8	59 5/8	809	28.5
CR 45-4	30	3	230/460	284TSC	35 3/4	19 3/4	12 1/2	9	55 1/2	23 7/8	16 1/4	13 5/8	59 5/8	809	28.5
CR 45-5-2	40	3	230/460	286TSC	39	21	13 3/8	12 1/4	60	23 7/8	16 1/4	13 5/8	62 7/8	863	45.6
CR 45-5-1	40	3	230/460	286TSC	39	21	13 3/8	12 1/4	60	23 7/8	16 1/4	13 5/8	62 7/8	863	45.6
CR 45-5	40	3	230/460	286TSC	39	21	13 3/8	12 1/4	60	23 7/8	16 1/4	13 5/8	62 7/8	863	45.6
CR 45-6-2	50	3	230/460	324TSC	42 1/8	24	13 7/8	12 1/4	66 1/8	28 5/8	18	14 3/4	70 3/4	929	45.6
CR 45-6	50	3	230/460	324TSC	42 1/8	24	13 7/8	12 1/4	66 1/8	28 5/8	18	14 3/4	70 3/4	929	45.6
CR 45-7-2	50	3	230/460	324TSC	45 1/4	24	13 7/8	12 1/4	69 1/4	28 5/8	18	14 3/4	73 7/8	938	45.6
CR 45-8-1	60	3	230/460	364TSC	48 3/8	28 5/8	15 1/8	13 1/4	77	31 3/4	20	15 1/2	80 1/8	1113	45.6

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



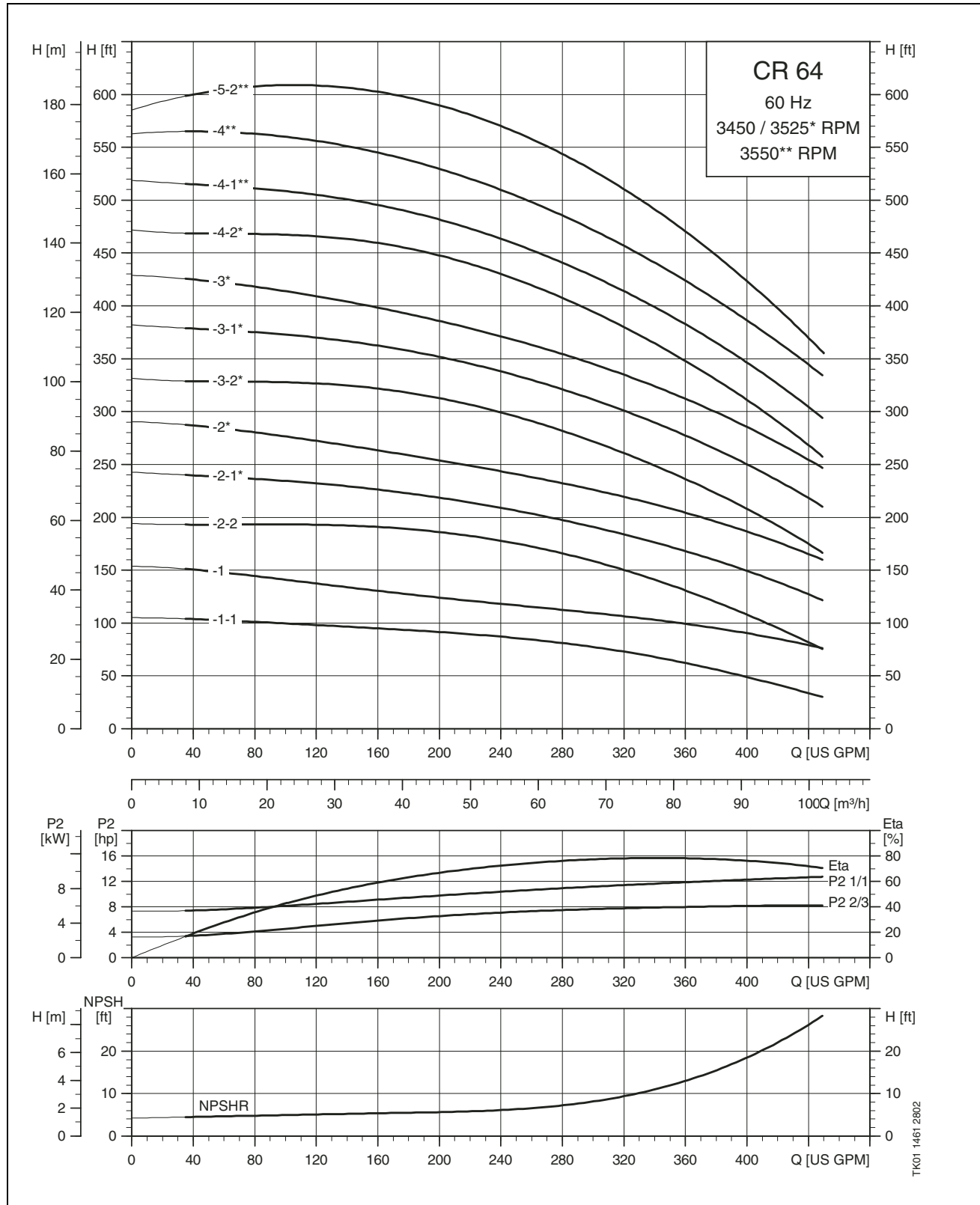
Dimensional sketches



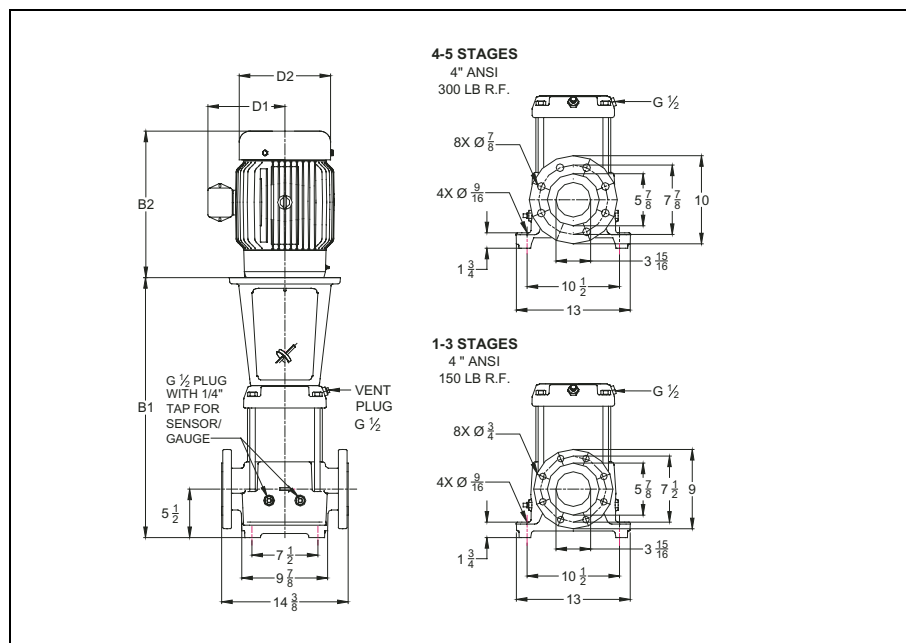
Dimensions and weights

Pump Type	Hp	Ph	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CRN 45-1-1	7 1/2	1	208-230	213TC	22	15 3/8	10 3/8	7 1/2	37 3/8	15 7/8	10 5/8	7 3/4	37 7/8	301	8.3
		3	208-230/460	213TC	22	14 1/2	8 1/2	5 7/8	36 1/2	16 1/2	8 7/8	6 1/4	38 1/2	281	8.3
CRN 45-1	7 1/2	1	208-230	213TC	22	15 3/8	10 3/8	7 1/2	37 3/8	15 7/8	10 5/8	7 3/4	37 7/8	301	8.3
		3	208-230/460	213TC	22	14 1/2	8 1/2	5 7/8	36 1/2	16 1/2	8 7/8	6 1/4	38 1/2	281	8.3
CRN 45-2-2	15	3	208-230/460	254TC	29 1/2	16 1/8	10 5/8	7 3/8	45 5/8	17 1/4	10 3/4	9 1/8	46 3/4	387	13.2
CRN 45-2-1	15	3	208-230/460	254TC	29 1/2	16 1/8	10 5/8	7 3/8	45 5/8	17 1/4	10 3/4	9 1/8	46 3/4	387	13.2
CRN 45-2	15	3	208-230/460	254TC	29 1/2	16 1/8	10 5/8	7 3/8	45 5/8	17 1/4	10 3/4	9 1/8	46 3/4	387	13.2
CRN 45-3-2	20	3	230/460	254TC	32 5/8	19 1/4	11 1/2	9	51 7/8	17	10 3/4	9	49 5/8	569	28.5
CRN 45-3-1	25	3	230/460	284TSC	32 5/8	21	11 5/8	9	53 5/8	20 1/2	13 1/2	9 7/8	53 1/8	622	28.5
CRN 45-3	25	3	230/460	284TSC	32 5/8	21	11 5/8	9	53 5/8	20 1/2	13 1/2	9 7/8	53 1/8	622	28.5
CRN 45-4-2	30	3	230/460	284TSC	35 3/4	19 3/4	12 1/2	9	55 1/2	23 7/8	16 1/4	13 5/8	59 5/8	809	28.5
CRN 45-4-1	30	3	230/460	284TSC	35 3/4	19 3/4	12 1/2	9	55 1/2	23 7/8	16 1/4	13 5/8	59 5/8	809	28.5
CRN 45-4	30	3	230/460	284TSC	35 3/4	19 3/4	12 1/2	9	55 1/2	23 7/8	16 1/4	13 5/8	59 5/8	809	28.5
CRN 45-5-2	40	3	230/460	286TSC	39	21	13 3/8	12 1/4	60	23 7/8	16 1/4	13 5/8	62 7/8	863	45.6
CRN 45-5-1	40	3	230/460	286TSC	39	21	13 3/8	12 1/4	60	23 7/8	16 1/4	13 5/8	62 7/8	863	45.6
CRN 45-5	40	3	230/460	286TSC	39	21	13 3/8	12 1/4	60	23 7/8	16 1/4	13 5/8	62 7/8	863	45.6
CRN 45-6-2	50	3	230/460	324TSC	42 1/8	24	13 7/8	12 1/4	66 1/8	28 5/8	18	14 3/4	70 3/4	929	45.6
CRN 45-6	50	3	230/460	324TSC	42 1/8	24	13 7/8	12 1/4	66 1/8	28 5/8	18	14 3/4	70 3/4	929	45.6
CRN 45-7-2	50	3	230/460	324TSC	45 1/4	24	13 7/8	12 1/4	69 1/4	28 5/8	18	14 3/4	73 7/8	938	45.6
CRN 45-8-1	60	3	230/460	364TSC	48 3/8	28 5/8	15 1/8	13 1/4	77	31 3/4	20	15 1/2	80 1/8	1113	45.6

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



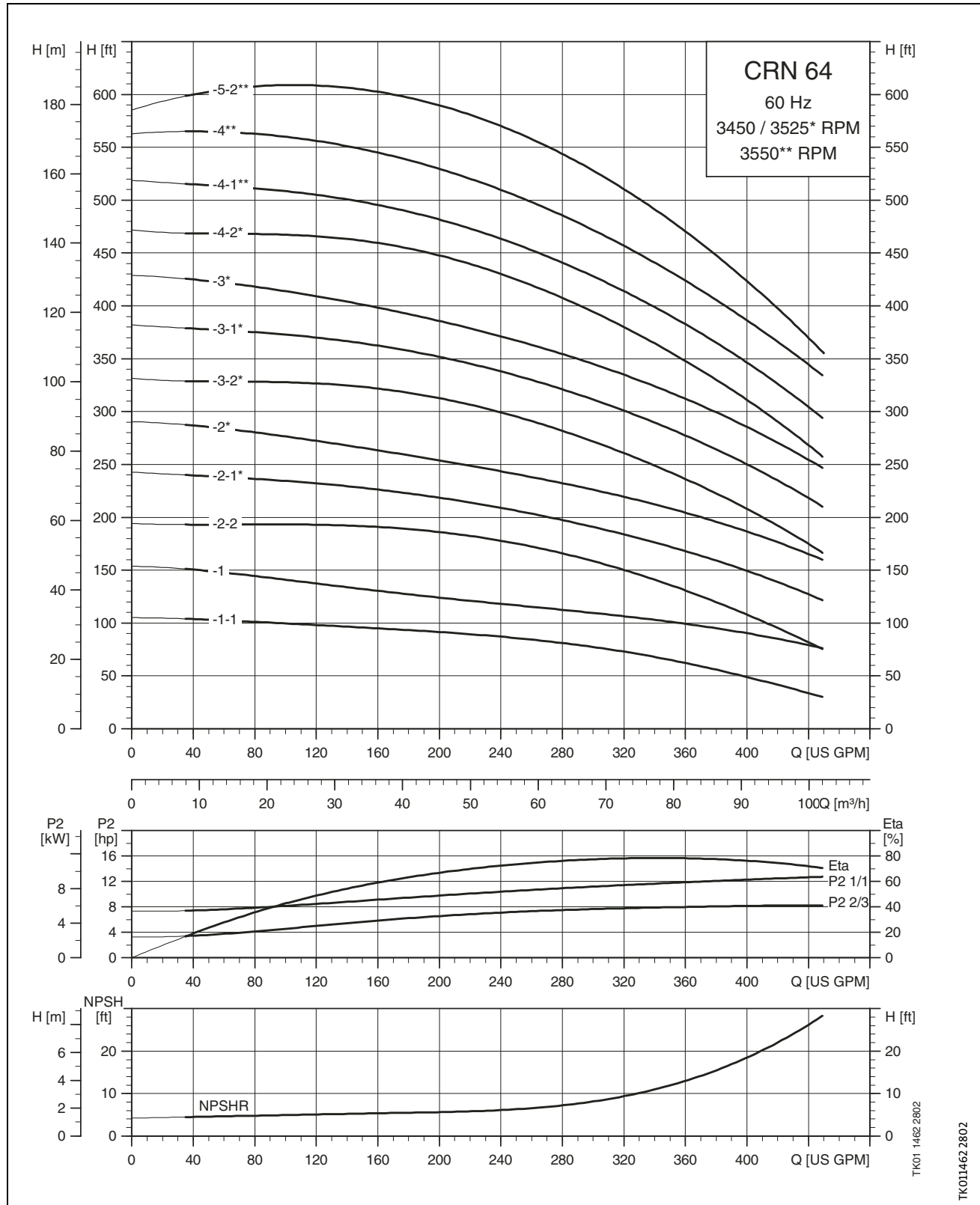
Dimensional sketches



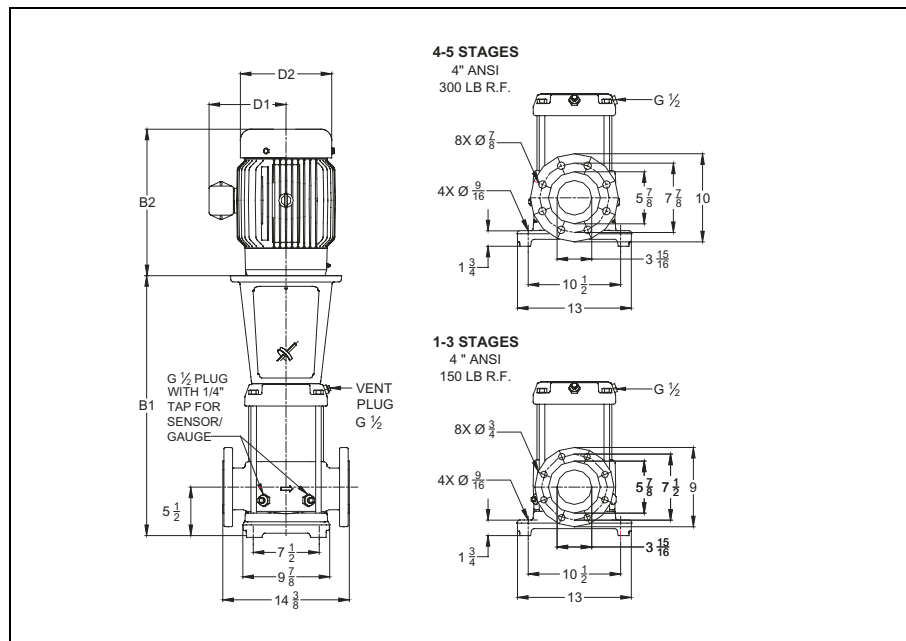
Dimensions and weights

Pump Type	Hp	Ph	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CR 64-1-1	7 1/2	1	208-230	213TC	22 1/8	15 3/8	10 3/8	7 1/2	37 1/2	15 7/8	10 5/8	7 3/4	38	299	8.3
		3	208-230/460	213TC	22 1/8	14 1/2	8 1/2	5 7/8	36 5/8	16 1/2	8 7/8	6 1/4	38 5/8	277	8.3
CR 64-1	15	3	208-230/460	254TC	26 1/2	16 1/8	10 5/8	7 3/8	42 5/8	17 1/4	10 3/4	9 1/8	43 3/4	339	13.2
CR 64-2-2	15	3	208-230/460	254TC	29 3/4	16 1/8	10 5/8	7 3/8	45 7/8	17 1/4	10 3/4	9 1/8	47	348	13.2
CR 64-2-1	20	3	230/460	254TC	29 3/4	19 1/4	11 1/2	9	49	17	10 3/4	9	46 3/4	391	13.2
CR 64-2	25	3	230/460	284TSC	29 3/4	21	11 5/8	9	50 3/4	20 1/2	13 1/2	9 7/8	50 1/4	514	28.5
CR 64-3-2	30	3	230/460	284TSC	33	19 3/4	12 1/2	9	52 3/4	23 7/8	16 1/4	13 5/8	56 7/8	569	28.5
CR 64-3-1	40	3	230/460	286TSC	33	21	13 3/8	12 1/4	54	23 7/8	16 1/4	13 5/8	56 7/8	647	28.5
CR 64-3	40	3	230/460	286TSC	33	21	13 3/8	12 1/4	54	23 7/8	16 1/4	13 5/8	56 7/8	647	28.5
CR 64-4-2	40	3	230/460	286TSC	36 1/4	21	13 3/8	12 1/4	57 1/4	23 7/8	16 1/4	13 5/8	60 1/8	684	28.5
CR 64-4-1	50	3	230/460	324TSC	36 1/4	24	13 7/8	12 1/4	60 1/4	28 5/8	18	14 3/4	64 7/8	748	45.6
CR 64-4	50	3	230/460	324TSC	36 1/4	24	13 7/8	12 1/4	60 1/4	28 5/8	18	14 3/4	64 7/8	748	45.6
CR 64-5-2	60	3	230/460	364TSC	39 1/2	28 5/8	15 1/8	13 1/4	68 1/8	31 3/4	20	15 1/2	71 1/4	923	45.6

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



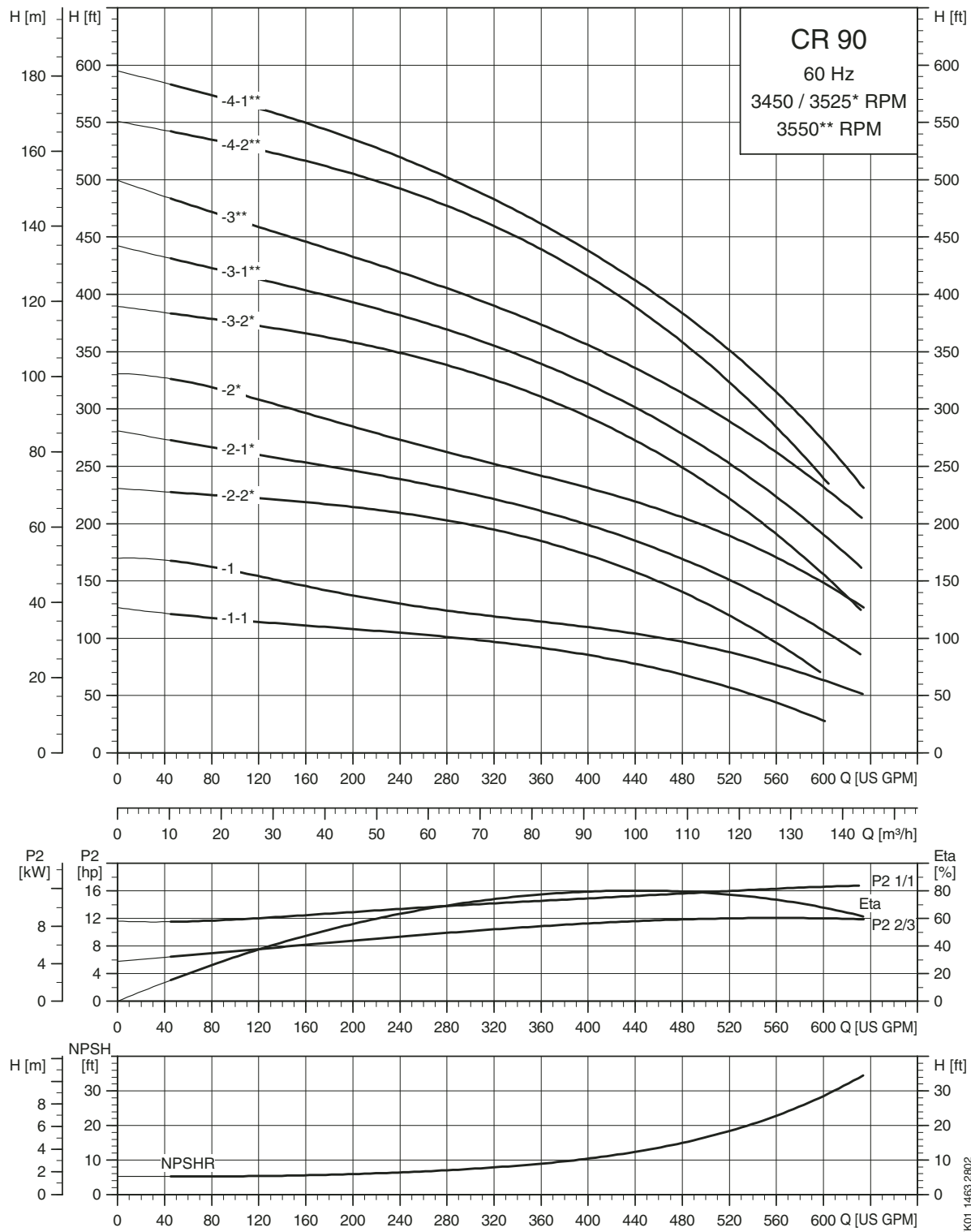
Dimensional sketches



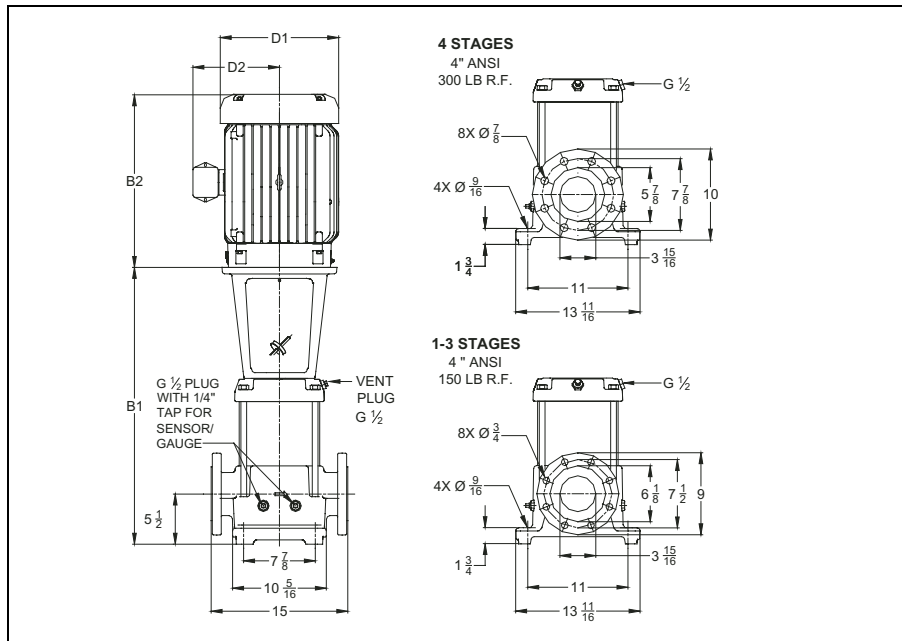
Dimensions and weights

Pump Type	Hp	Ph	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CRN 64-1-1	7 1/2	1	208-230	213TC	22 1/8	15 3/8	10 3/8	7 1/2	37 1/2	15 7/8	10 5/8	7 3/4	38	299	8.3
		3	208-230/460	213TC	22 1/8	14 1/2	8 1/2	5 7/8	36 5/8	16 1/2	8 7/8	6 1/4	38 5/8	277	8.3
CRN 64-1	15	3	208-230/460	254TC	26 1/2	16 1/8	10 5/8	7 3/8	42 5/8	17 1/4	10 3/4	9 1/8	43 3/4	339	13.2
CRN 64-2-2	15	3	208-230/460	254TC	29 3/4	16 1/8	10 5/8	7 3/8	45 7/8	17 1/4	10 3/4	9 1/8	47	348	13.2
CRN 64-2-1	20	3	230/460	254TC	29 3/4	19 1/4	11 1/2	9	49	17	10 3/4	9	46 3/4	391	13.2
CRN 64-2	25	3	230/460	284TSC	29 3/4	21	11 5/8	9	50 3/4	20 1/2	13 1/2	9 7/8	50 1/4	514	28.5
CRN 64-3-2	30	3	230/460	284TSC	33	19 3/4	12 1/2	9	52 3/4	23 7/8	16 1/4	13 5/8	56 7/8	569	28.5
CRN 64-3-1	40	3	230/460	286TSC	33	21	13 3/8	12 1/4	54	23 7/8	16 1/4	13 5/8	56 7/8	647	28.5
CRN 64-3	40	3	230/460	286TSC	33	21	13 3/8	12 1/4	54	23 7/8	16 1/4	13 5/8	56 7/8	647	28.5
CRN 64-4-2	40	3	230/460	286TSC	36 1/4	21	13 3/8	12 1/4	57 1/4	23 7/8	16 1/4	13 5/8	60 1/8	684	28.5
CRN 64-4-1	50	3	230/460	324TSC	36 1/4	24	13 7/8	12 1/4	60 1/4	28 5/8	18	14 3/4	64 7/8	748	45.6
CRN 64-4	50	3	230/460	324TSC	36 1/4	24	13 7/8	12 1/4	60 1/4	28 5/8	18	14 3/4	64 7/8	748	45.6
CRN 64-5-2	60	3	230/460	364TSC	39 1/2	28 5/8	15 1/8	13 1/4	68 1/8	31 3/4	20	15 1/2	71 1/4	923	45.6

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



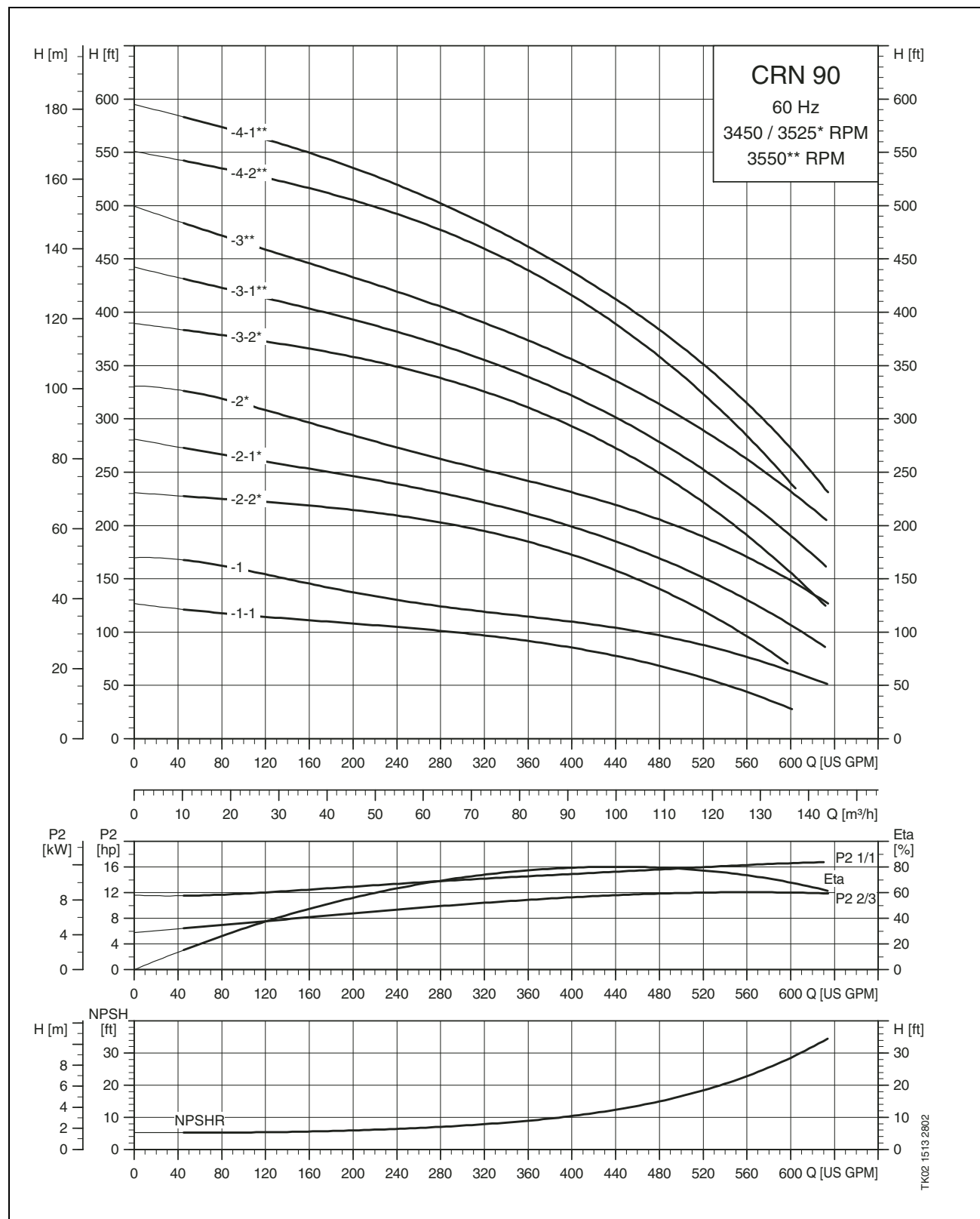
Dimensional sketches



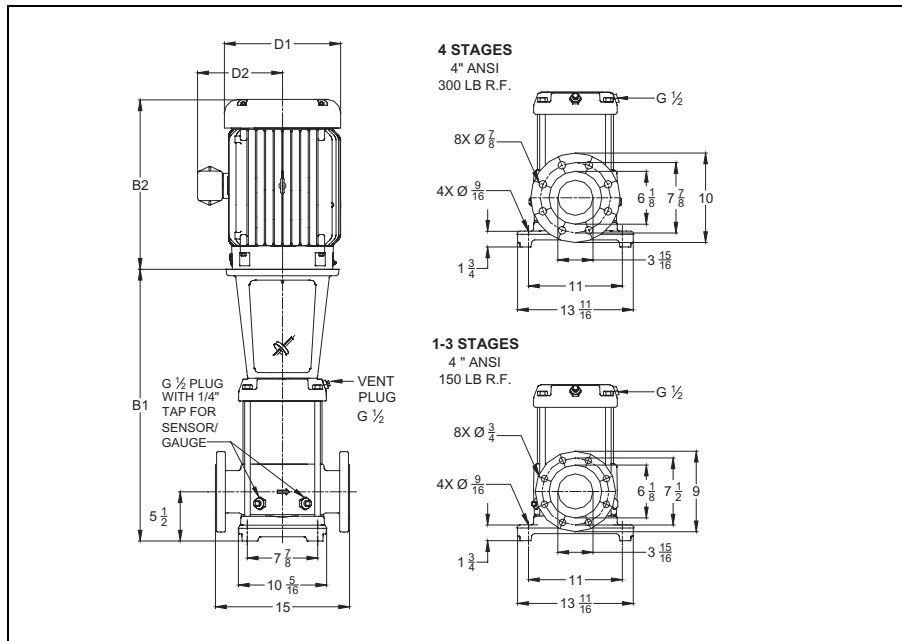
Dimensions and weights

Pump Type	Hp	Ph	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. [lbs.]	Ship Vol. [ft³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CR 90-1-1	15	3	208-230/460	254TC	26 7/8	16 1/8	10 5/8	7 3/8	43	17 1/4	10 3/4	9 1/8	44 1/8	351	13.2
CR 90-1	15	3	208-230/460	254TC	26 7/8	16 1/8	10 5/8	7 3/8	43	17 1/4	10 3/4	9 1/8	44 1/8	351	13.2
CR 90-2-2	25	3	230/460	284TSC	30 1/2	21	11 5/8	9	51 1/2	20 1/2	13 1/2	9 7/8	51	527	28.5
CR 90-2-1	30	3	230/460	284TSC	30 1/2	19 3/4	12 1/2	9	50 1/4	23 7/8	16 1/4	13 5/8	54 3/8	573	28.5
CR 90-2	40	3	230/460	286TSC	30 1/2	21	13 3/8	12 1/4	51 1/2	23 7/8	16 1/4	13 5/8	54 3/8	650	28.5
CR 90-3-2	40	3	230/460	286TSC	34 1/8	21	13 3/8	12 1/4	55 1/8	23 7/8	16 1/4	13 5/8	58	660	45.6
CR 90-3-1	50	3	230/460	324TSC	34 1/8	24	13 7/8	12 1/4	58 1/8	28 5/8	18	14 3/4	62 3/4	724	45.6
CR 90-3	50	3	230/460	324TSC	34 1/8	24	13 7/8	12 1/4	58 1/8	28 5/8	18	14 3/4	62 3/4	752	45.6
CR 90-4-2	60	3	230/460	364TSC	37 3/4	28 5/8	15 1/8	13 1/4	66 3/8	31 3/4	20	15 1/2	69 1/2	870	45.6
CR 90-4-1	60	3	230/460	364TSC	37 3/4	28 5/8	15 1/8	13 1/4	66 3/8	31 3/4	20	15 1/2	69 1/2	870	45.6

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)



Dimensional sketches



Dimensions and weights

Pump Type	Hp	Ph	Voltage	NEMA Frame Size	B1	ODP Motors				TEFC Motors				Ship Wt. ¹ [lbs.]	Ship Vol. ¹ [ft ³]
						B2	D1	D2	B1+B2	B2	D1	D2	B1+B2		
CRN 90-1-1	15	3	208-230/460	254TC	26 7/8	16 1/8	10 5/8	7 3/8	43	17 1/4	10 3/4	9 1/8	44 1/8	351	13.2
CRN 90-1	15	3	208-230/460	254TC	26 7/8	16 1/8	10 5/8	7 3/8	43	17 1/4	10 3/4	9 1/8	44 1/8	351	13.2
CRN 90-2-2	25	3	230/460	284TSC	30 1/2	21	11 5/8	9	51 1/2	20 1/2	13 1/2	9 7/8	51	527	28.5
CRN 90-2-1	30	3	230/460	284TSC	30 1/2	19 3/4	12 1/2	9	50 1/4	23 7/8	16 1/4	13 5/8	54 3/8	573	28.5
CRN 90-2	40	3	230/460	286TSC	30 1/2	21	13 3/8	12 1/4	51 1/2	23 7/8	16 1/4	13 5/8	54 3/8	650	28.5
CRN 90-3-2	40	3	230/460	286TSC	34 1/8	21	13 3/8	12 1/4	55 1/8	23 7/8	16 1/4	13 5/8	58	660	45.6
CRN 90-3-1	50	3	230/460	324TSC	34 1/8	24	13 7/8	12 1/4	58 1/8	28 5/8	18	14 3/4	62 3/4	724	45.6
CRN 90-3	50	3	230/460	324TSC	34 1/8	24	13 7/8	12 1/4	58 1/8	28 5/8	18	14 3/4	62 3/4	752	45.6
CRN 90-4-2	60	3	230/460	364TSC	37 3/4	28 5/8	15 1/8	13 1/4	66 3/8	31 3/4	20	15 1/2	69 1/2	870	45.6
CRN 90-4-1	60	3	230/460	364TSC	37 3/4	28 5/8	15 1/8	13 1/4	66 3/8	31 3/4	20	15 1/2	69 1/2	870	45.6

¹ Weights and Volumes based on Pump with 3-phase ODP Motor (see price list for individual weights)

ODP Motors

HP	PH	ODP Frame	ODP S.F.	ODP Voltage	ODP Mtr. Eff. %	ODP Insul. Class	ODP KVA Code	ODP Full Load Current	ODP Service Factor Current	ODP Start Current
1/3	1	56C	1.35	115/230	58	F	K	6.0/3.0	6.8/3.4	28/14
	3	56C	1.35	208-230/460	70	F	J	1.5-1.4/0.7	1.7-1.6/0.8	11-10/5.0
	3	56C	1.35	575	71	F	J			
1/2	1	56C	1.25	115/208-230	66	F	H	7.2/4.0-3.6	8.2/4.5-4.1	30/16.5-15
	3	56C	1.25	208-230/460	68	F	J	2.1-2.0/1.0	2.6-2.4/1.2	13.3-12/6.0
	3	56C	1.25	575	68	F	J	0.8	1	4.8
3/4	1	56C	1.25	115/208-230	68	F	K	9.6/5.3-4.8	11.4/6.3-5.7	56/31-28
	3	56C	1.25	208-230/460	75	F	K	2.7-2.6/1.3	3.1-3.0/1.5	16.8-15.2/7.6
	3	56C	1.25	575	75	F	K	0.96	1.2	6.1
1	1	56C	1.25	115/208-230	69	F	L	14/7.3-7.0	16.2/8.9-8.1	92/50.9-46
	3	56C	1.25	208-230/460	77	F	H	3.7-3.6/1.8	4.2-3.8/1.9	24.3-22/11
	3	56C	1.25	575	77	F	H	1.4	1.5	8.8
1 1/2	1	56C	1.15	115/208-230	75	F	H	10/9.9-9.0	19.6/10.8-9.8	120.8/66.8-60.4
	3	56C	1.15	208-230/460	82	F	K	4.9-4.6/2.3	5.3-5.0/2.5	40.7-36.8/18.4
	3	56C	1.15	575	75	F	G	1.8	2.2	12.8
2	1	56C	1.15	115/208-230	70	F	G	24/13.2-12	27.5/15-13.7	160/88.5-80
	3	56C	1.15	208-230/460	81	F	H	5.9-5.6/2.8	6.7-6.4/3.2	77.4-70.4/35.2
	3	56C	1.15	575	81	F	H	2.3	2.6	28.2
3	1	182TC	1.15	115/208-230	78	F	G	28/16-14	33.5/19-16.7	148/81.8-74
	3	182TC	1.15	208-230/460	83	F	H	8.4-8.0/4.0	9.2-8.7/4.4	66.3-60/30
	3	182TC	1.15	575	82	F	K	3.1	3.5	28
5	1	182TC	1.15	208-230	81	F	G	28-26	31.9-29.6	167.2-152
	3	182TC	1.15	208-230/460	87	F	L	13-12/6.0	14.7-13.6/6.8	137.8-124.6/62.3
	3	182TC	1.15	575	84	F	H	4.8	5.6	38.4
7 1/2	1	213TC	1.15	208-230	81	F	G	38-37	43.9-42.9	212.3-192
	3	213TC	1.15	208-230/460	86	F	J	19-18/9.0	21.2-20.2/10.1	168.1-152/76
	3	213TC	1.15	575	86	F	J	7.6	8.8	53.6
10	1	213TC	1.15	208-230	83	F	G	48-46	53.6-51.6	309.7-280
	3	213TC	1.15	208-230/460	85.5	F	H	27-25/12.5	30-27.8/13.9	195.5-176.8/88.4
	3	213TC	1.15	575	85.5	F	H	10	11.6	70.7
15	3	254TC	1.15	208-230/460	85.5	F	G	38-36/18	43.8-41.8/20.9	289.7-262/131
	3	254TC	1.15	575	85.5	F	G	14.5	16.7	105
	3	254TC	1.15	230/460	91.7	F	F	47/23.5	54/27	278/139
20	3	284TSC	1.15	230/460	88.5	F	G	49/24.5	55/27.5	306/153
	3	284TSC	1.15	575	88.5	F	G	19.2	21.9	119
	3	284TSC	1.15	230/460	92.4	F	G	59/29.5	67.8/33.9	372/186
25	3	284TSC	1.15	575	91	F	H	24.8	28.1	159
	3	284TSC	1.15	230/460	91	F	H	70/35	80.1/40.1	480/240
	3	284TSC	1.15	575		F				
40	3	286TSC	1.15	230/460	90.2	F	F	100/50	114/57	540/270
	3	324TSC	1.15	575		F				
	3	324TSC	1.15	230/460	92.4	F	F	114/57	132/66	674/336
50	3	324TSC	1.15	575		F				
	3	364TSC	1.15	230/460	91.7	F	G	140/70	161/80.5	914/457
	3	364TSC	1.15	575		F				



Notes:

- The information in this chart applies to **Grundfos' specified Baldor® motors**. Grundfos CR pumps are supplied with heavy-duty 2-pole, NEMA C-frame motors built or selected to our rigid specifications. All CR pump motors have heavy-duty bearings in them for maximum thrust requirements.
It is not recommended that an off-the-shelf standard Baldor motor be used on a Grundfos pump. Ideally, the best motor choice would be the Grundfos specified motor.
- Other motor types are available (i.e., Explosion proof, Mill and Chem duty, High Efficiency, etc.), consult local Grundfos company for more information.
- Pumps supplied by Grundfos Canada are normally supplied with motors from other manufacturers. 575 volt motors meet EPart/NRC efficiency standards. Dimensions and data will vary, contact local Grundfos company for more information.
- All values are subject to change without notice.

TEFC Motors

HP	PH	TEFC Frame	TEFC S.F.	TEFC Voltage	TEFC Mtr. Eff. %	TEFC Insul. Class	TEFC KVA Code	TEFC Full Load Current	TEFC Service Factor Current	TEFC Start Current
1/3	1	56C	1.35	115/208-230	58	F	K	6.0/3.0	6.8/3.4	28/14
	3	56C	1.35	208-230/460	70	F	J	1.5-1.4/0.7	1.7-1.6/0.8	11-10/5.0
	3	56C	1.35	575	71	F	J			
1/2	1	56C	1.6	115/208-230	64	F	K	7.4/4.1-3.7	9.1/4.9-4.6	39/21.7-19.9
	3	56C	1.25	208-230/460	68	F	J	2.1-2.0/1.0	2.6-2.4/1.2	13.3-12/6.0
	3	56C	1.25	575	68	F	J	0.8	0.96	4.8
3/4	1	56C	1.25	115/208-230	68	F	K	9.6/5.3-4.8	11.4/6.3-5.7	56/31-28
	3	56C	1.25	208-230/460	75	F	K	2.7-2.6/1.3	3.1-3.0/1.5	16.8-15.2/7.6
	3	56C	1.25	575	75	F	K	0.96	1.2	6.1
1	1	56C	1.25	115/230	69	F	K	12/6.0	13.6/6.8	77/38.5
	3	56C	1.25	208-230/460	77	F	H	3.7-3.6/1.8	4.2-3.8/1.9	24.3-22/11
	3	56C	1.25	575	77	F	H	1.4	1.5	8.8
1 1/2	1	56C	1.3	115/208-230	71	F	K	17/9.5-8.6	20.4/11.3-10.2	79.8/43.8-39.9
	3	56C	1.15	208-230/460	75	F	G	5.0-4.6/2.3	5.7-5.4/2.7	35.4-32/16
	3	56C	1.15	575	75	F	G	1.8	2.2	12.8
2	1	56C	1.15	115/208-230	74	F	K	23/11.5	25.8/12.9	156/78
	3	56C	1.15	208-230/460	80	F	H	5.7-5.4/2.7	6.5-6.2/3.1	38.7-35/17.5
	3	56C	1.15	575	80	F	H	2.2	2.5	14
3	1	182TC	1.15	115/208-230	75	F	H	29/16-14.5	32.8/18-16.4	170/93.5-85
	3	182TC	1.15	208-230/460	82	F	K	8.2-7.8/3.9	9.2-8.8/4.4	77.4-70/35
	3	182TC	1.15	575	82	F	K	3.1	3.5	28
5	1	182TC	1.15	230	80	F	J	22	25	170
	3	182TC	1.15	208-230/460	85	F	K	13.2-12/6.0	15-13.6/6.8	103.9-94/47
	3	182TC	1.15	575	85	F	K	4.8	5.4	38
7 1/2	1	213TC	1.15	208-230	82	F	F	34.3-31	39.3-35.5	240-217
	3	213TC	1.15	208-230/460	87	F	L	19-17.2/8.6	21.7-19.6/9.8	168.1-152/76
	3	213TC	1.15	575	87	F	L	6.9	8.5	61
10	1	213TC	1.15	230	88.5	F	F	40	46	233.5
	3	213TC	1.15	208-230/460	85.5	F	J	25-24/12	28.7-27.6/13.8	232.2-210/105
	3	213TC	1.15	575	85.5	F	J	9.6	11	84
15	3	254TC	1.15	208-230/460	86.5	F	L	38-34/17	43.6-40/20	376-340/170
	3	254TC	1.15	575	86.5	F	L	13.6	16	136
	3	254TC	1.15	230/460	88.5	F	K	46/23	52.4/26.2	420/210
20	3	284TSC	1.15	230/460	90.2	F	H	47/23.5	53.4/26.7	354/177
	3	284TSC	1.15	575	90.2	F	H	19	21.4	138
	3	284TSC	1.15	230/460	88.5	F	J	58/29	69.4/34.7	496/248
25	3	284TSC	1.15	575	88.5	F	J	23.7	27.8	198.4
	3	286TSC	1.15	230/460	91.7	F	G	66/33	77.2/38.6	448/224
	3	284TSC	1.15	575	91	F	G	27.5	31.5	172
40	3	284TSC	1.15	230/460	90.2	F	G	94/47	105.2/52.6	580/290
	3	326TSC	1.15	575		F				
	3	326TSC	1.15	230/460	93	F	G	110/55	128/64	746/393
60	3	364TSC	1.15	230/460	93	F	G	132/66	157.4/78.7	812/406
	3	364TSC	1.15	575		F				
	3	364TSC	1.15	575		F				



Notes:

- The information in this chart applies to **Grundfos' specified Baldor® motors**. Grundfos CR pumps are supplied with heavy-duty 2-pole, NEMA C-frame motors built or selected to our rigid specifications. All CR pump motors have heavy-duty bearings in them for maximum thrust requirements. **It is not recommended that an off-the-shelf standard Baldor motor be used on a Grundfos pump. Ideally, the best motor choice would be the Grundfos specified motor.**
- Other motor types are available (i.e., Explosion proof, Mill and Chem duty, High Efficiency, etc.), consult local Grundfos company for more information.
- Pumps supplied by Grundfos Canada are normally supplied with motors from other manufacturers. 575 volt motors meet EPAct/NRC efficiency standards. Dimensions and data will vary, contact local Grundfos company for more information.
- All values are subject to change without notice.

Pumped Liquids

Thin, non-explosive liquids, not containing solid particles or fibers. The liquid must not chemically attack the pump materials.

When pumping liquids with a density and/or viscosity higher than that of water, oversized motors must be used, if required.

Whether a pump is suitable for a particular liquid depends on a number of factors of which the most important are the chloride content, pH value, temperature and content of chemicals, oils, etc.

Please note that aggressive liquids (e.g. sea water and some acids) may attack or dissolve the protective oxide film of the stainless steel and thus cause corrosion.

The CR, CRI, CRN pump types are suitable for the following liquids:

CR, CRI, CRX

- Non-corrosive liquids.

For liquid transfer, circulation and pressure boosting of cold or hot clean water.

CRN

- Industrial liquids.

In systems where all parts in contact with the liquid must be made of high-grade stainless steel.

CRT

- Saline liquids.
- Hypochlorites.

For saline or chloride-containing liquids such as sea water or oxidizing agents such as hypochlorites, CRT pumps of titanium are available. See separate data booklet on CRT.

List of pumped liquids

A number of typical liquids are listed below.

Other pump versions may be applicable, but those stated in the list are considered to be the best choices.

The table is intended as a general guide only, and cannot replace actual testing of the pumped liquids and pump materials under specific working conditions.

The list should be applied with some caution as factors such as concentration of the pumped liquid, liquid temperature or pressure may affect the chemical resistance of a specific pump version.

Notes

D	Often with additives.
E	Density and/or viscosity differ from that of water. Allow for this when calculating motor output and pump performance.
F	Pump selection depends on many factors. Please contact Grundfos.
H	Risk of crystallization/precipitation in shaft seal
2	Corrosion. The pumped liquid attacks all standard metals. Use a shaft seal with no metal components in contact with the pumped liquid.
4	Poor lubricating properties. The pumped liquid has so poor lubricating properties that dry running should be avoided.
7	The pumped liquid is easily ignited.
8	The pumped liquid is flammable.
9	Insoluble in water.

Pumped Liquids	Notes	Additional Information	Shaft Seal Materials	
			best ++, suitable +, sometimes suitable -, (x = seal type: H, B, K)	
			CR	CRN
Acetic Acid, CH ₃ COOH		5%, 68°F		xQQE++, xQBE+, xUUE-, xUBE-
Acetone, CH ₃ COCH ₃	4, 7	100%, 68°F	xQBE++, xUBE++	
Alkaline degreasing agent	D, F			xQQE++, xUUE++, xQBE+, xUBE+
Ammonium bicarbonate, NH ₄ HCO ₃	E	20%, 86°F		xQQE++, xUUE++, xQBE+, xUBE+
Ammonium hydroxide, NH ₄ OH		20%, 104°F	xQQE++, xQBE++, xUUE++, xUBE++	
Aviation turbine fuel	7, 9	100%, 68°F	xQBV++, xUBV++	
Benzoic acid, C ₆ H ₅ COOH	H	0.5%, 68°F		xQQV++, xBQV+, xUUV+, xUBV+
Boiler feed water		< 248°F	xUBE++, xQBE-,	
Calcareous water		< 194°F	xQQE++, xUUE++	
Calcium acetate, Ca(CH ₃ COO) ₂	D, E	30%, 122°F		xQQE++, xUUE++
Calcium hydroxide, Ca(OH) ₂	E, H	Saturated solution, 122°F		xQQE++, xUUE++, xQBE+, xUBE+
Chlorine containing water (w/o salt)		max. 5 ppm, 86°F		xQQE++, xQBE++, xUUE++, xUBE++
Chromic acid, H ₂ CrO ₄	H	1%, 68°F		xQQE++, xQQV++, xQBE+, xQBV+
Citric acid, HOC(CH ₂ CO ₂ H) ₂ COOH	H	5%, 104°F		xQQE++, xQQV++, xUUE+, xUUV+

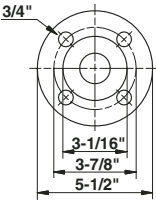
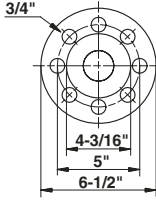
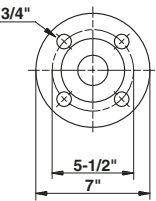
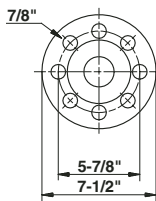
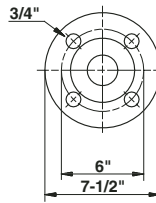
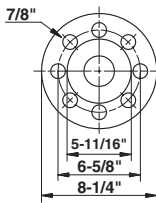
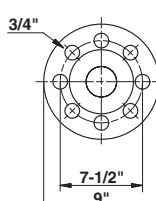
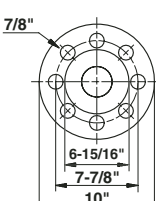
Pumped Liquids	Notes	Additional Information	Shaft Seal Materials	
			best ++, suitable +, sometimes suitable -, (x = seal type: H, B, K)	
			CR	CRN
Completely desalinated water (demineralized)		< 194°F		xUBE++, xUUE+
Completely desalinated water (demineralized)		194° F - 248°F		xUBE++, xQBE-
Condensate		< 194° F	xQBE++, xUBE++	
Copper sulfate, CuSO ₄	E	10%, 122°F		xQQE++, xQQV++, xUUE+, xUUUV+
Corn oil	D, E, 9	100%, 176°F	xQQV++, xUUUV++, xQBV-, xUBV-	
Diesel oil	8, 9	100%, 68°F	xQBV++, xUBV++	
Domestic hot water (potable water)		< 194°F	xQBE++, xUBE++, xQQE+, xUUE+	
Domestic hot water (potable water)		194° F - 248°F	xQBE++, xUBE++	
Domestic hot water (potable water)	F	248°F - 284°F	xQBE++, xUBE++	
Ethanol (ethyl alcohol), C ₂ H ₅ OH	1, 7	100%, 68°F	xQBE++, xUBE++	
Ethylene glycol, HOCH ₂ CH ₂ OH	D, E	50%, 122°F	xQQE++, xUUE++, xQQV-, xUUUV-	
Formic acid, HCOOH		5%, 68°F		xQQE++, xQBE+, xUUE-, xUBE-
Glycerine (glycerol), OHCH ₂ CH(OH)CH ₂ OH	D, E	50%, 122°F	xQQE++, xUUE++, xQQV+, xUUUV+	
Hydraulic oil (mineral)	E, 9	100%, 212°F	xQBV++, xUBV++, xQQV+, xUUUV+	
Hydraulic oil (synthetic)	E, 9	100%, 212°F	xQBV++, xUBV++, xQQV+, xUUUV+	
Isopropyl alcohol, CH ₃ CHOHCH ₃	7	100%, 68°F	xQBV++, xUBV++, xQQV+, xUUUV+	
Lactic acid, CH ₃ CH(OH)COOH	E, H	10%, 68°F		xQQE++, xQQV++, xQBE+, xQBV+
Linoleic acid, C ₁₇ H ₃₁ COOH	E, 9	100%, 68°F	xUUUV++	
Methanol (methyl alcohol), CH ₃ OH	4, 7	100%, 68°F	xQBE++, xUBE++	
Motor oil	E, 9	100%, 176°F	xQBV++, xUBV++, xQQV++, xUUUV+	
Naphtalene, C ₁₀ H ₈	E, H	100%, 177°F - 248°F	xQQV++, xUUUV++, xQBV+, xUBV+	
Nitric acid, HNO ₃	F	1%, 68°F		xQQE++, xQBE++, xQQV+, xQBV+
Oil-containing water		< 212°F	xQBV++, xUBV++, xQQV+, xUUUV+	
Olive oil	D, E, 9	100%, 176°F	xQQV++, xUUUV++, xQBV-, xUBV-	
Oxalic acid, (COOH) ₂	H	1%, 68°F		xQQE++, xQQV++, xQBE+, xQBV+
Ozone-containing water, (O ₃)		< 212°F		xQQE++, xQBE++, xUUE++, xUBE++
Peanut oil	D, E, 9	100%, 176°F	xQQV++, xUUUV++, xQBV-, xUBV-	
Petrol	7, 9	100%, 68°F	xQBV++, xUBV++	
Phosphoric acid, H ₃ PO ₄	E	20%, 68°F		xQQV++, xQBV+, xQQE+, xQBE+
Potassium carbonate, K ₂ CO ₃	E	20%, 122°F		xQQE++, xUUE++
Potassium formate (as coolant), KOOCH	D, E	30%, 122°F	xUUE++	
Potassium hydroxide, KOH	E	20%, 122°F		xQQE++, xUUE++
Potassium permanganate, KMnO ₄		5%, 68°F	xQQE++, xQBE+	
Propanol, C ₃ H ₇ OH	7	100%, 68°F	xQBV++, xUBV++, xQQE+, xQBE+	
Propylene glycol, CH ₃ CH(OH)CH ₂ OH	D, E	50%, 194° F	xQQE++, xUUE++, xQQV+, xUUUV+	
Rape seed oil	D, E, 9	100%, 176°F	xQQV++, xUUUV++, xQBV-, xUBV-	
Salicylic acid, C ₆ H ₄ (OH)COOH	H	0.1%, 68°F		xQQE++, xQBE+, xUUE+, xUBE+
Silicone oil	E, 9	100%	xQBV++, xUBV++, xQQE+, xUUE+	
Sodium bicarbonate, NaHCO ₃	E	10%, 140°F		xQQE++, xUUE++, xQBE+, UBE+
Sodium chloride (as coolant), NaCl	D, E	30%, < 41°F, pH > 8	xQQE++, xUUE++, xQQV+, xUUUV+	
Sodium hydroxide, NaOH	E	20%, 122°F		xQQE++, xUUE++
Sodium hypochlorite, NaOCl	F	0.1%, 68°F		xQQE-, xQQV-
Sodium nitrate, NaNO ₃	E	10%, 140°F		xQQE++, xUUE++, xQBE+, UBE+
Sodium phosphate, Na ₃ SO ₄	E, H	10%, 140°F	xQQE++, xUUE++, xQQV+, xUUUV+	
Sodium sulfate, Na ₂ SO ₄	E, H	10%, 140°F		xQQE++, xUUE++, xQBE+, UBE+
Softened water		< 194°F		xQBE++, xUBE++, xQQE+, xUUE+
Softened water		194° F - 248°F		xQBE++, xUBE++
Soya bean oil	D, E, 9	100%, 176°F	xQQV++, xUUUV++, xQBV-, xUBV-	
Sulfuric acid, H ₂ SO ₄	F	1%, 68°F		xQQV++, xQBV++, xQQE+, xQBE+
Sulphurous acid, H ₂ SO ₃		1%, 68°F		xQQE+, xQBE+, xUUE-, xUBE-

Pipework connection

For pipework connection, various sets of counter flanges and couplings are available.

CR counter flanges

A set consists of two counter flanges, two gaskets, bolts and nuts.

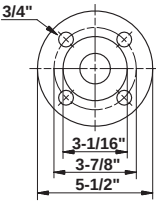
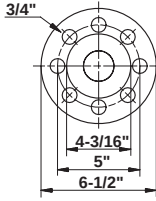
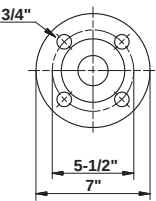
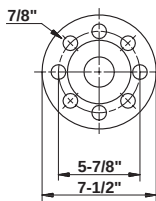
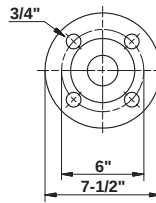
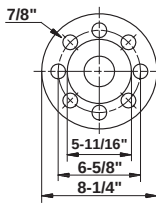
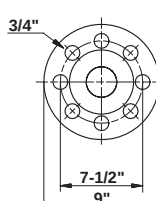
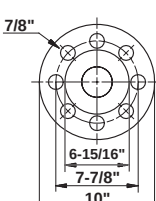
Counter flange	Pump type	Description	Pressure Class	Pipework connection	Product number
	CR 1s CR 1 CR 3 CR 5	Threaded	ANSI 250 lb.	1½" NPT	91122260
	CR 8 CR 16	Threaded	ANSI 250 lb.	2" NPT	335021
ANSI 125 LB. 	CR 32	Threaded	ANSI 125 lb.	2½" NPT	559601
ANSI 250 LB. 		Threaded	ANSI 250 lb.	2½" NPT	345050
	CR 45	Threaded	ANSI 125 lb.	3" NPT	569601
		Threaded	ANSI 250 lb.	3" NPT	91121952
	CR 64 CR 90	Threaded	ANSI 125 lb.	4" NPT	579801
		Threaded	ANSI 250 lb.	4" NPT	3600028

Pipework connection

For pipework connection, various sets of counter flanges and couplings are available.

CR counter flanges

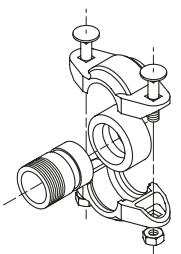
A set consists of two counter flanges, two gaskets, bolts and nuts.

Counter flange	Pump type	Description	Pressure Class	Pipework connection	Product number
	CR 1s CR 1 CR 3 CR 5	Threaded	ANSI 250 lb.	1½" NPT	91122260
	CR 8 CR 16	Threaded	ANSI 250 lb.	2" NPT	335021
ANSI 150 LB. 	CR 32	Threaded	ANSI 125 lb.	2½" NPT	559601
ANSI 300 LB. 		Threaded	ANSI 250 lb.	2½" NPT	345050
	CR 45	Threaded	ANSI 125 lb.	3" NPT	569601
		Threaded	ANSI 250 lb.	3" NPT	91121952
	CR 64 CR 90	Threaded	ANSI 125 lb.	4" NPT	579801
		Threaded	ANSI 250 lb.	4" NPT	3600028

PJE couplings

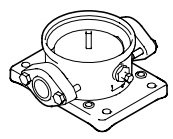
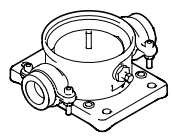
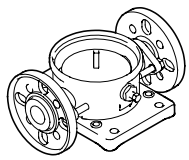
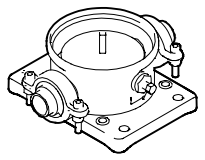
Couplings for CRN pumps are made of stainless steel according to AISI 316.

A set consists of two couplings, two gaskets, two Threaded pipe stubs and bolts and nuts.

Couplings	Pump type	Pipe stub	Rated Pressure	Pipework connection	Rubber parts	Product number
	CRI, CRN 1s, 1, 3 and 5	Threaded	80 bar	1½" NPT	EPDM	4013010
					FKM	01D00118
	CRX 8, CRX 16, CRN 8, CRN 16	Threaded	70 bar	2" NPT	EPDM	331301
					FKM	01D00128

FlexiClamp base connections

All sets comprise the necessary number of bolts and nuts as well as a gasket/O-ring.

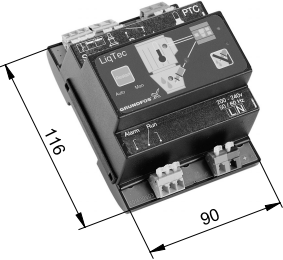
Base connections	Pump type	Connection	Pipework connection	Rubber parts	Product number
	CRI, CRN 1s, 1, 3 and 5	Oval (cast iron)	1" NPT	Klingersil	96468491
			1½" NPT	Klingersil	96470781
		Oval (stainless steel)	1" NPT	Klingersil	96480850
			1½" NPT	Klingersil	96480851
	CRI, CRN 1s, 1, 3 and 5	Union	2" NPT	EPDM	96480852
				FKM	96480853
	CRI, CRN 1s, 1, 3 and 5	ANSI (FGJ) (stainless steel)	1½" NPT	EPDM	96480858
				FKM	96480859
	CRI, CRN 1s, 1, 3 and 5	Clamp, threaded pipe stub	1" NPT	EPDM	96480854 96480855
			1½" NPT	FKM	96480856 96480857

LiqTec

A dry-running protection device, the LiqTec protects pump and process against dry running. Connected to the motor PTC sensor, LiqTec also monitors motor temperature.

LiqTec is prepared for DIN rail mounting in control cabinet.

Enclosure class: IP X0.

Dry-running protection	Pump type	LiqTec	Sensor ¼"	Cable 16.4 ft (5 m)	Extension cable 49.2 ft (15 m)	Voltage	Product number
 TM02 1731 2001	CR CRI CRN	•	•	•		115V	96 46 39 12
		•	•	•		230V	96 44 36 74
					•		96 44 36 76

Lists of variants - on request

Although the Grundfos CR, CRI, CRN product range offers a number of pumps for different applications, customers require specific pump solutions to satisfy their needs.

Below please find the range of options available for customizing the CR pumps to meet the customers' demands.

Contact Grundfos for further information or for requests other than the ones mentioned below.

Motors

Variant	Description
Explosion-proof motor EExe and EExd	For operation in hazardous atmospheres, explosion-proof or dust-ignition-proof motors may be required.
Oversized motor	Ambient temperatures above -40°F or installation at altitudes of more than 3281 ft above sea level require the use of an oversized motor (i.e. derating).

Shaft seals

Variant	Description
High-pressure shaft seal	Recommended for applications involving pressures between 363 and 580 psi.
Air-cooled shaft seal system	Recommended for applications involving extremely high temperatures. No conventional mechanical shaft seal can withstand liquid temperatures of up to 356°F for any length of time. For that type of application, Grundfos' unique air-cooled shaft seal system is recommended. In order to ensure a low liquid temperature around the standard shaft seal, the pump is fitted with a special air-cooled shaft seal chamber. No separate cooling is required.
Double shaft seal with pressure chamber	Recommended for applications involving poisonous or explosive liquids. Protects the surrounding environment and the people working in the vicinity of the pump. Consists of two seals mounted in a "back-to-back" arrangement inside a separate pressure seal chamber. As the pressure in the chamber is higher than the pump pressure, leakage is prevented. A dosing pump or a special pressure-intensifier generates the seal chamber pressure.
CR MAGdrive	Magnetically driven pumps for industrial applications. Key applications are industrial processes involving the handling of aggressive, environmental, dangerous or volatile liquids, e.g. organic compounds, solvents, etc.

Pumps

Variant	Description
Horizontally mounted pump	For safety reasons, certain applications, for instance on ships, require the pump to be mounted in the horizontal position. For easy installation the pump is equipped with brackets that support motor and pump.
Low-temperature pump down to -40°F	Exposed to temperatures down to -40°F, coolant pumps may require neck-rings with a different diameter in order to prevent impeller drag. Gaskets are made of vulcanised rubber.
High-speed pump up to 682 psi	For high-pressure applications, a unique pump capable of generating up to 682 psi pressure is available. The pump is equipped with a high-speed motor, type MGE. The direction of rotation is the opposite of that of standard pumps, and the chamber stack is turned upside-down, as a result of which the pumped liquid flows in the opposite direction.
High-pressure pump up to 638 psi	For high-pressure applications, a unique double pump system capable of generating up to 638 psi pressure is available.
Low-NPSH pump (improved suction)	Recommended for boiler-feed applications where cavitation may occur due to poor inlet conditions.
Pump with bearing flange	Recommended for standard motors. The bearing flange increases the life of motor bearings. The bearing flange is also suitable for applications where the inlet pressure is higher than the maximum pressure recommended.
Belt-driven pumps	Belt-driven pumps are designed to operate in places with limited space or where electrical power is not available.

Connections and other variants

Variant	Description
Flange connections	In addition to the wide range of standard flange connections, a 232 psi ANSI standard clamping flange is available. Customized flanges are available according to specifications.
Pickled and passivated pumps	The objective of pickling is to enhance the corrosion resistance of the stainless steel. This is achieved by removing weld discoloration and impurities such as iron or inclusions from the surface of the steel by means of a mixture of nitric acid and hydrofluoric acid (pickling solution). After pickling, the stainless steel is passivated in nitric acid. The pickling and passivating process ensures a completely clean metal surface.

Submittal Data Sheet

CR, CRI(X), CRN

Vertical Multistage Centrifugal Pumps

Prepared by: _____
 Phone number: () - _____
 Fax number: () - _____
 Date: _____ Page 1 of: _____
 Quote number: _____

Client Information	
Project title: _____	Client name: _____
Reference number: _____	Client number: _____
Client contact: _____	Client phone no: () - _____

Location Information	
For: _____	Unit: _____
Site: _____	Service: _____
Address: _____	City: _____ State: _____ Zip Code: _____

Application Information			
Operating Conditions		Pumped Fluid	
	max. norm. min.	Fluid type: _____	
Capacity (gpm)		rated max. norm.	
Suction Pressure (psig)		Fluid Temperature (°F)	
Discharge Pressure (psig)		at designated temperature	
Differential Head (ft)		Specific Gravity	
Hydraulic Power (hp)		Vapor Pressure (psia)	
at designated capacity		Viscosity (cp)	
NPSH Available (ft)		Fluid ph: _____ Chlorides (ppm): _____	
Service		Hazardous: _____ Flammable: _____	
Continuous: _____	Intermittent (starts/day): _____	Other: _____	
		Corrosion/Errrosion caused by: _____	
		% Solids: _____ Max. particle size (in): _____	

Pump Information	
Model Information from Type Key and Codes: _____	
Quantity Required: _____	Example: CR 5-10 U-FGJ-A-E-HQQE
Minimum required flow: _____	NPSH required at duty point: _____
Product Guide additional information pages	
Materials page number: _____	Performance curve page number: _____
Technical data page number: _____	Motor data page number: _____

Motor Information			
HP: _____	Phase: _____	Voltage: _____	Enclosure: _____

Custom-built pump information (optional): _____

Additional Information

Quotation Text

CR, CRI, CRX, CRN

Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.

The pump has the following characteristics:

- Impellers and intermediate chambers are made of _____.
- Pump head and base are made of _____.
- Power transmission is via cast iron split coupling.
- Pipework connection is via _____ flanges.

The motor is a _____-phase AC motor.

Technical:

Rated flow: _____ GPM
Rated head: _____ Feet
Minimum liquid temperature: _____ °F
Maximum liquid temperature: _____ °F
Type of shaft seal: _____

Materials:

Material, pump housing: _____
Material, shaft: _____ Stainless Steel
Material, impeller: _____ Stainless Steel
Material, sleeve: _____ Stainless Steel
Material, seal metal: _____ Stainless Steel
- seal face: _____
- seal face: _____
- seal elastomer: _____

Installation:

Maximum ambient temperature: _____ °F
Max pressure at stated temp: _____ PSI/°F
Standard, pipe connection: _____
Size, pipe connection: _____
Rated pressure, pipe connection: _____ PSI
Frame size for motor: _____ NEMA

Electrical data:

Motor type: _____
Rated power (P2): _____ HP
Frequency: _____ Hz
Rated voltage: _____ V
Rated current: _____ A
Service factor: _____
Starting current: _____ A
Rated speed: _____ RPM
Full load motor efficiency: _____ %
Insulation class: _____

Additional:

Gross weight: _____ Lbs.
Shipping volume: _____
Model: _____

L-CR-PG-001	9/02
PRINTED IN USA	

Subject to alterations.

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Fax: +1-913 227 3500
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