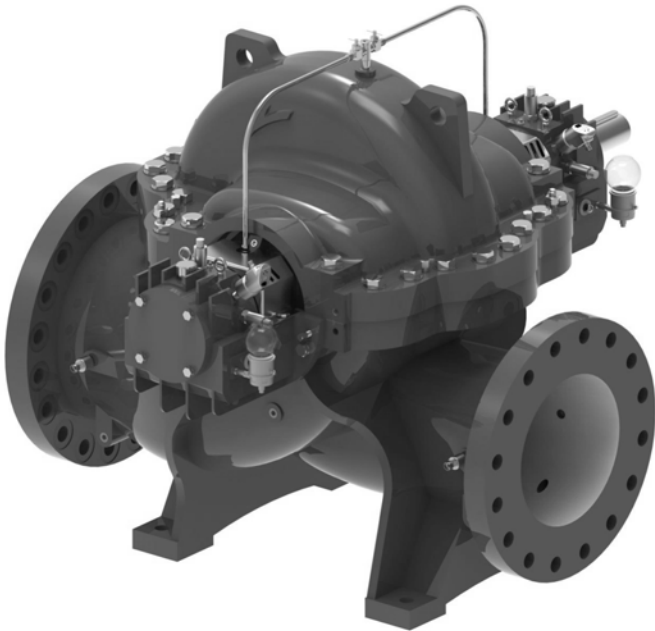




Series e-XC

DOUBLE SUCTION CENTRIFUGAL PUMPS - 60 HZ

TECHNICAL DATA & PERFORMANCE CURVES

TABLE OF CONTENTS

Pump Selection and Technical Overview	3
List of Models and Pole Compatibility	4
Model Nomenclature – Product Identification	6
Family Performance Range	7
2-Pole	7
4-Pole	7
6-Pole	8
8-Pole	8
e-XC Pump Casing Data	9
e-XC Pump Casing Variants	11
e-XC Pump Exploded View and Seal Chamber Interchangeability	12
Exploded View	12
Seal Chamber Interchangeability Tables	14
Materials of Construction	21
Sealing Options and Information	22
Coupling, Motor, and Accessory Overview	24
e-XC Pump Dimensional Data	26
3 in. Discharge	27
4 in. Discharge	28
5 in. Discharge	30
6 in. Discharge	32
8 in. Discharge	34
10 in. Discharge	36
12 in. Discharge	38
14 in. Discharge	40
16 in. Discharge	42
18 in. Discharge	44
20 in. Discharge	45
24 in. Discharge	46
28 in. Discharge	48
32 in. Discharge	50
Flange Dimensions	51
125# ANSI/AWWA Class D Drilling Dimensions	51
250# ANSI/AWWA Class F Drilling Dimensions	52
DIN/PN16 Drilling Dimensions	53
DIN/PN25 Drilling Dimensions	54
DIN/PN40 Drilling Dimensions	55

Shared Flange Dimensions (Flange Thickness)	56
Forces and Moments at Pump Flanges	58
Max Solid Sphere Data	59
Hydraulic Performances (2-Pole)	61
3 in. Discharge	62
4 in. Discharge	63
5 in. Discharge	65
6 in. Discharge	67
Hydraulic Performances (4-Pole)	68
3 in. Discharge	69
4 in. Discharge	69
5 in. Discharge	70
6 in. Discharge	72
8 in. Discharge	74
10 in. Discharge	77
12 in. Discharge	79
14 in. Discharge	82
16 in. Discharge	85
18 in. Discharge	86
20 in. Discharge	87
Hydraulic Performances (6-Pole)	88
10 in. Discharge	89
14 in. Discharge	90
16 in. Discharge	91
20 in. Discharge	92
24 in. Discharge	94
28 in. Discharge	95
32 in. Discharge	97
Hydraulic Performances (8-Pole)	98
14 in. Discharge	99
16 in. Discharge	99
24 in. Discharge	100
28 in. Discharge	101

Xylem e-XC split case pumps provide a powerful and efficient solution for a wide range of industries including oil & gas, power generation, water utilities, general industry, leisure and mining. It is a configurable single-stage horizontal split-case pump with extensive flow and head coverage and a common in-line configuration for easier installation of new and retrofit pumping systems. Applications include: water intake, water transfer & circulation, pressure boosting, process cooling and heating, industrial building cooling and heating, industrial fluid transfer & transport, produced water transfer & boosting, boiler feed booster and water park applications. Pumped fluids include: groundwater, potable water, process water, gray/used water, seawater, brackish water, industrial fluids, heat transfer fluids, produced water and solvents/oil.

Pump Selection

Using Xylem's Intellitronic X selection software for pump selection will save you time due to its easy to use platform and selection flexibility. With ability to be designed and configured in a multitude of ways, the Xylem e-XC single stage, double suction centrifugal pump is available in a variety of sizes, models and materials which allow you to perfectly configure it for your system requirements.

Technical Overview

Hydraulic Specifications¹

Maximum flow: 57,061 GPM [12,960 m³/hr]

Maximum head: 873 ft. [266 m]

Fluid Temperature Range

Standard: 0 to 250°F [-18 to 121°C]

Casing Operating Pressure

Cast Iron: 175 psi [12 bar]

Ductile Iron: 400 and 450 psi [28 and 31 bar]²

Flange Drilling Specifications

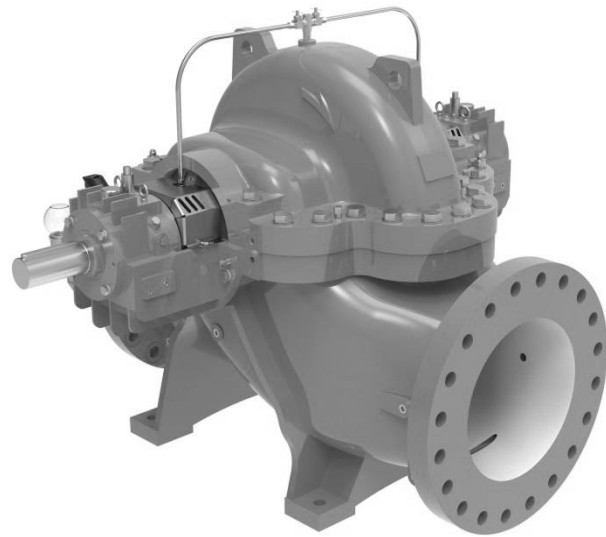
125# and 250#, ASME/ANSI B16.1

DIN 16/25/40, EN 1092-1³

AWWA Class D, Class F³

Assembly Configurations

1. Mechanical seal on shaft sleeve⁴
2. Cartridge seal on shaft sleeve
3. Packing on shaft sleeve
4. Mechanical seal on shaft
5. Cartridge seal on shaft



¹Hydraulic performances compliant with ANSI/HI 14.6 and ISO 9906:2012 (Grade 2B)

²A select few ductile iron casings are restricted to the 175 psi [12 bar] working pressure classification

³Optional drilling specifications

⁴Standard configuration

List of Models and Pole Compatibility (60Hz)

No.	e-XC Pump Model		2-Pole	4-Pole	6-Pole	8-Pole
1	3X5X8.5	3X5X8	•			
2	3X5X11	3X5X10.5	•			
3	3X5X12.5	3X5X12	•			
4	3X5X13.5	3X5X13		•		
5	4X5X6.5	4X5X6	•			
6	4X6X10	4X6X9.5	•			
7	4X6X13	4X6X12	•			
8	4X6X14.5	4X6X13.5		•		
9	4X6X16	4X6X15.5		•	•	
10	5X6X7.5	5X6X7	•			
11	5X6X9	5X6X8.5		•		
12	5X8X9.5	5X8X9	•			
13	5X8X12	5X8X11	•			
14	5X8X14	5X8X13.5	•			
15	5X8X15.5	5X8X14.5		•		
16	5X8X19	5X8X18		•		
17	6X8X6.5	6X8X6		•		
18	6X8X12	6X8X11		•		
19	6X8X14	6X8X13.5		•		
20	6X8X18	6X8X17		•		
21	6X8X22	6X8X21		•		
22	6X10X11	6X10X10.5	•			
23	8X8X8	8X8X7.5		•		
24	8X10X10	8X10X9.5		•		
25	8X10X13.5	8X10X13		•		
26	8X10X17	8X10X16		•		
27	8X10X21	8X10X20		•		
28	8X10X26	8X10X25		•		
29	10X10X8	10X10X7.5		•		
30	10X12X15.5	10X12X14.5		•		
31	10X12X19	10X12X18		•		
32	10X12X24	10X12X23		•		
33	10X12X30	10X12X28.5			•	
34	12X12X9	12X12X8.5		•		
35	12X12X10	12X12X9.5		•		
36	12X14X13	12X14X12.5		•		
37	12X16X18	12X16X17		•		
38	12X16X22	12X16X21		•		
39	12X16X28	12X16X27		•		
40	14X14X12	14X14X11		•		
41	14X16X15	14X16X14.5		•		

List of Models and Pole Compatibility (60Hz – Cont.)

No.	e-XC Pump Model		2-Pole	4-Pole	6-Pole	8-Pole
42	14X16X27.5	14X16X26		•		
43	14X16X30.5	14X16X29			•	
44	14X18X18	14X18X17		•		
45	14X18X21	14X18X20		•		
46	14X20X26.5	14X20X25.5			•	
47	14X20X33	14X20X31.5				•
48	16X16X13.5	16X16X13		•		
49	16X20X20.5	16X20X19.5		•		
50	16X20X21	16X20X20			•	
51	16X20X23	16X20X22		•		
52	16X24X31.5	16X24X29.5			•	
53	16X24X38	16X24X34				•
54	18X20X15.5	18X20X14.5		•		
55	20X24X18	20X24X17		•		
56	20X24X20.5	20X24X19.5			•	
57	20X24X24.5	20X24X23.5			•	
58	20X28X28	20X28X27			•	
59	20X28X36	20X28X34			•	
60	24X28X22.5	24X28X21			•	
61	24X28X24	24X28X23			•	
62	24X32X31.5	24X32X30			•	
63	24X32X39	24X32X37				•
64	24X32X43.5	24X32X41.5				•
65	28X28X21	28X28X19.5			•	
66	28X32X23.5	28X32X23			•	
67	28X32X26	28X32X25			•	
68	28X32X30.5	28X32X28.5				•
69	28X32X34	28X32X32.5				•
70	28X36X39	28X36X37				•
71	32X32X23	32X32X22			•	

Shorthand Model Nomenclature

Model Name	Discharge Diameter	Suction Diameter	Impeller Diameter ¹
3X5X8.5	3 in.	5 in.	8.5 in.

¹Impeller diameter roughly correlates to the basic non-trimmed impeller diameter.

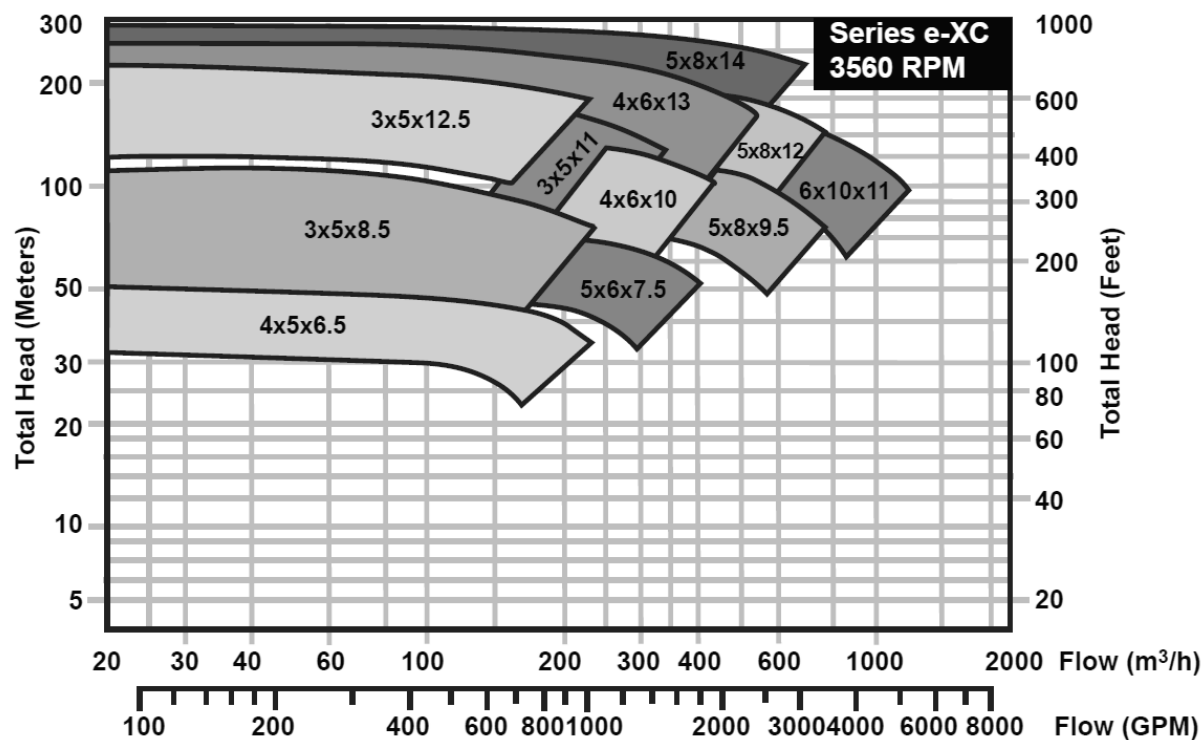
Model Nomenclature – Product Identification

Pump Series			Pump Size												Motor Power					Voltage		Poles	Pump Rotation	Coupling	Enclosure	Motor Frame		Flange Class		Pump materials				Drive	For special config.	Open
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
e	X	C		2	4	X	3	2	X	4	3	5	/		2	0	0	K	5	T	4	W	S	T	5	0	A	1	C	B	4	A	1	X		

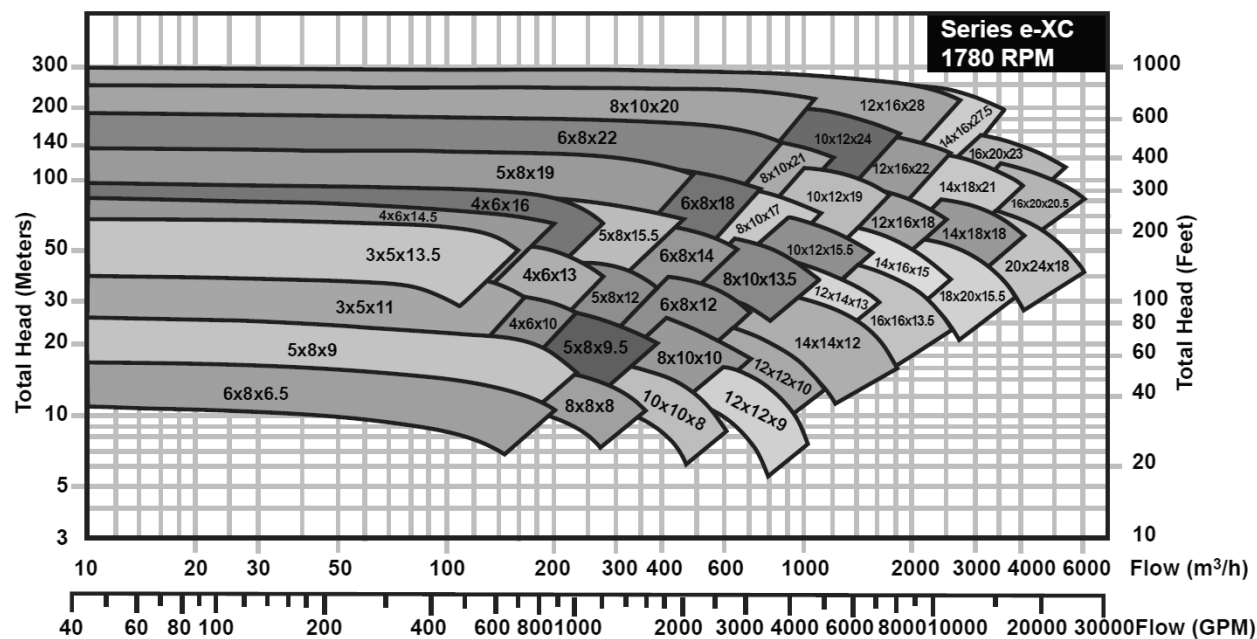
Legend

No.	Description
1	Pump series name field
2	
3	
4	Pump model name field
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	Separator
15	Motor power value
16	
17	
18	Motor power unit (hp/kW)
19	
20	Frequency, phase, and voltage code
21	
22	Number of poles (2/4/6/8)
23	Pump rotation direction (CW/CCW)
24	Coupling type (spacer/non-spacer)
25	Motor enclosure type (ODP/TEFC)
26	Motor frame code
27	
28	Flange design (ANSI/DIN)
29	Flange class (16/25/40/125#/250#)
30	Casing material code
31	Impeller material code
32	Mechanical seal material code
33	Bearing lubrication (grease/oil)
34	Drive code
35	Special configuration code
36	Open field

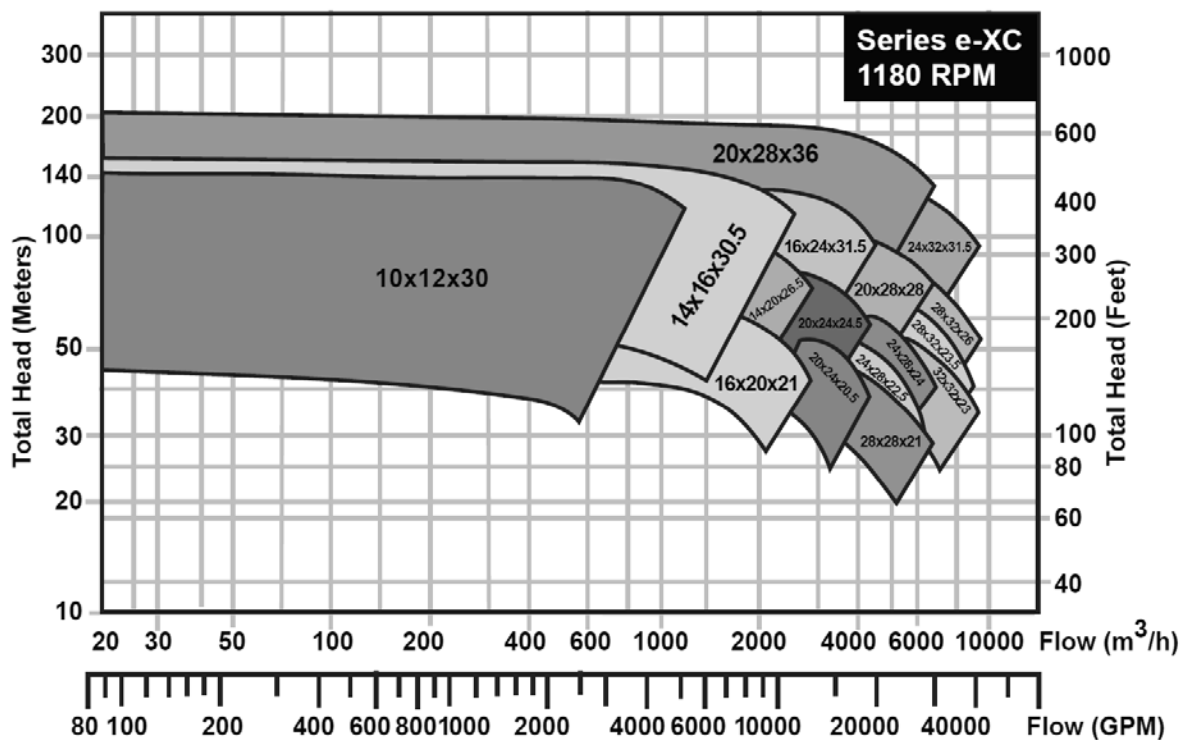
60 Cycle Performance Range – 2 Pole



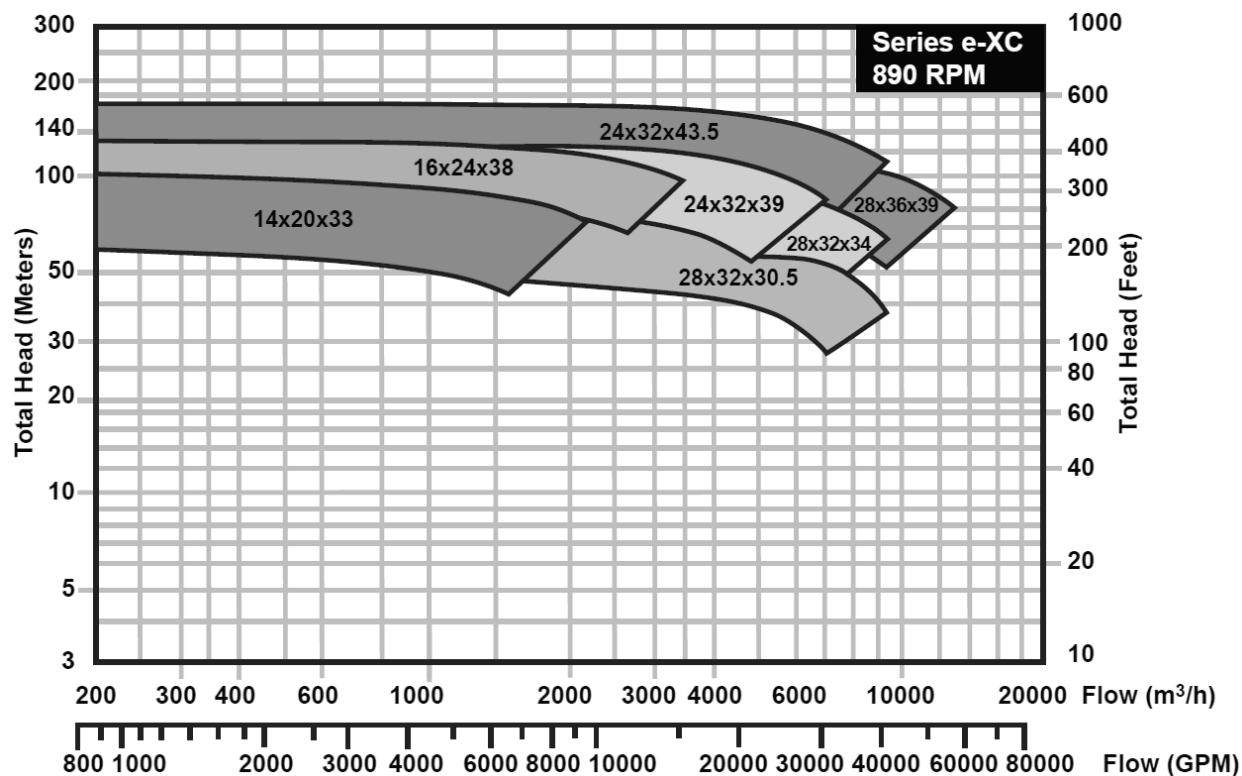
60 Cycle Performance Range – 4 Pole



60 Cycle Performance Range – 6 Pole



60 Cycle Performance Range – 8 Pole



e-XC Pump Casing Data (60Hz)

Pump casing designs and characteristics vary within the e-XC pump family. The table below outlines casing properties by pump model. Cast iron is the standard casing material option in instances where both cast iron and ductile iron casings are available for the same pump model. Pressure ratings indicate max working pressure of the pump. For details regarding drop-in and integrated seal chamber designs, see 'e-XC Pump Casing Variants'.

No.	e-XC Pump Model		Seal Chamber Type	Volute Type	Cast Iron (175 psi)	Ductile Iron (175 psi)	Ductile Iron (400 psi)	Ductile Iron (450 psi)
1	3X5X8.5	3X5X8	Drop-in	Single	•		•	
2	3X5X11	3X5X10.5	Drop-in	Single	•		•	
3	3X5X12.5	3X5X12	Drop-in	Single			•	
4	3X5X13.5	3X5X13	Drop-in	Single	•		•	
5	4X5X6.5	4X5X6	Drop-in	Single	•		•	
6	4X6X10	4X6X9.5	Drop-in	Single	•		•	
7	4X6X13	4X6X12	Drop-in	Single	•			•
8	4X6X14.5	4X6X13.5	Drop-in	Single	•		•	
9	4X6X16	4X6X15.5	Drop-in	Single	•		•	
10	5X6X7.5	5X6X7	Drop-in	Single	•		•	
11	5X6X9	5X6X8.5	Drop-in	Single	•		•	
12	5X8X9.5	5X8X9	Drop-in	Single	•		•	
13	5X8X12	5X8X11	Drop-in	Single	•		•	
14	5X8X14	5X8X13.5	Drop-in	Single	•			•
15	5X8X15.5	5X8X14.5	Drop-in	Single	•		•	
16	5X8X19	5X8X18	Drop-in	Single	•		•	
17	6X8X6.5	6X8X6	Drop-in	Single	•		•	
18	6X8X12	6X8X11	Drop-in	Single	•		•	
19	6X8X14	6X8X13.5	Drop-in	Single	•		•	
20	6X8X18	6X8X17	Drop-in	Single	•		•	
21	6X8X22	6X8X21	Drop-in	Dual			•	
22	6X10X11	6X10X10.5	Drop-in	Single			•	
23	8X8X8	8X8X7.5	Drop-in	Single	•		•	
24	8X10X10	8X10X9.5	Drop-in	Single	•		•	
25	8X10X13.5	8X10X13	Drop-in	Single	•		•	
26	8X10X17	8X10X16	Drop-in	Single	•		•	
27	8X10X21	8X10X20	Drop-in	Dual			•	
28	8X10X26	8X10X25	Drop-in	Dual				•
29	10X10X8	10X10X7.5	Drop-in	Dual	•		•	
30	10X12X15.5	10X12X14.5	Drop-in	Single	•		•	
31	10X12X19	10X12X18	Drop-in	Single	•		•	
32	10X12X24	10X12X23	Drop-in	Dual			•	
33	10X12X30	10X12X28.5	Drop-in	Dual			•	
34	12X12X9	12X12X8.5	Drop-in	Dual	•		•	
35	12X12X10	12X12X9.5	Drop-in	Dual	•		•	
36	12X14X13	12X14X12.5	Drop-in	Single	•		•	
37	12X16X18	12X16X17	Drop-in	Single	•		•	
38	12X16X22	12X16X21	Drop-in	Single			•	
39	12X16X28	12X16X27	Drop-in	Dual				•
40	14X14X12	14X14X11	Drop-in	Dual	•		•	
41	14X16X15	14X16X14.5	Drop-in	Single	•		•	

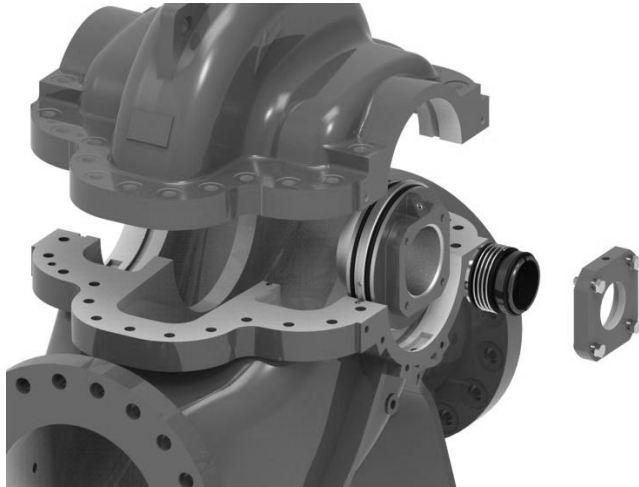
e-XC Pump Casing Data Continued (60Hz)

No.	e-XC Pump Model		Seal Chamber Type	Volute Type	Cast Iron (175 psi)	Ductile Iron (175 psi)	Ductile Iron (400 psi)	Ductile Iron (450 psi)
42	14X16X27.5	14X16X26	Drop-in	Dual				•
43	14X16X30.5	14X16X29	Integrated	Dual	•		•	
44	14X18X18	14X18X17	Drop-in	Dual	•		•	
45	14X18X21	14X18X20	Drop-in	Dual	•		•	
46	14X20X26.5	14X20X25.5	Integrated	Dual		•		
47	14X20X33	14X20X31.5	Integrated	Dual			•	
48	16X16X13.5	16X16X13	Drop-in	Dual	•		•	
49	16X20X20.5	16X20X19.5	Drop-in	Dual			•	
50	16X20X21	16X20X20	Drop-in	Single	•	•		
51	16X20X23	16X20X22	Drop-in	Dual			•	
52	16X24X31.5	16X24X29.5	Integrated	Dual			•	
53	16X24X38	16X24X34	Integrated	Dual			•	
54	18X20X15.5	18X20X14.5	Drop-in	Dual	•		•	
55	20X24X18	20X24X17	Drop-in	Dual	•		•	
56	20X24X20.5	20X24X19.5	Integrated	Dual		•		
57	20X24X24.5	20X24X23.5	Integrated	Dual		•		
58	20X28X28	20X28X27	Integrated	Dual			•	
59	20X28X36	20X28X34	Integrated	Dual			•	
60	24X28X22.5	24X28X21	Integrated	Dual		•		
61	24X28X24	24X28X23	Integrated	Dual		•		
62	24X32X31.5	24X32X30	Integrated	Dual		•		
63	24X32X39	24X32X37	Integrated	Dual			•	
64	24X32X43.5	24X32X41.5	Integrated	Dual			•	
65	28X28X21	28X28X19.5	Integrated	Dual			•	
66	28X32X23.5	28X32X23	Integrated	Dual			•	
67	28X32X26	28X32X25	Integrated	Dual			•	
68	28X32X30.5	28X32X28.5	Integrated	Dual			•	
69	28X32X34	28X32X32.5	Integrated	Dual			•	
70	28X36X39	28X36X37	Integrated	Dual			•	
71	32X32X23	32X32X22	Integrated	Dual			•	

e-XC Pump Casing Variants

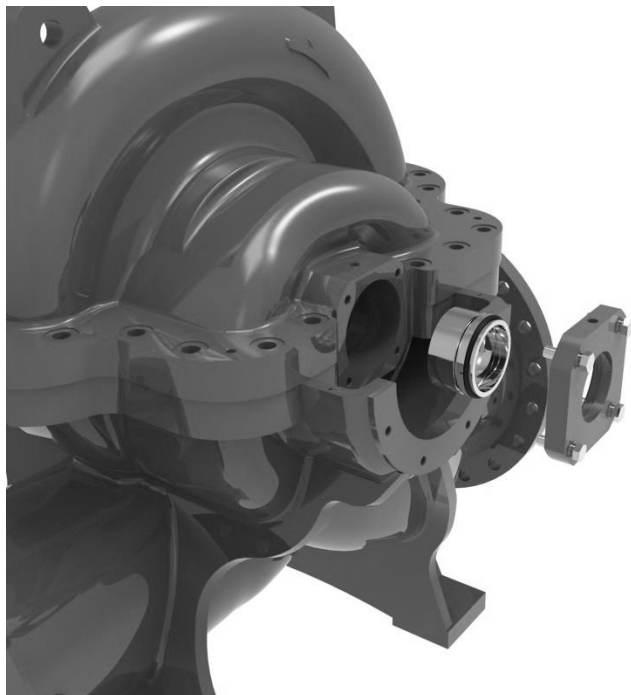
Drop-in Stuffing Box Design (Drop-in Seal Chamber)

The drop-in stuffing box design utilizes a removable stuffing box. This design allows a pre-assembled rotating assembly to be installed into the lower casing. Seal gland, cartridge seals, and packing glands are affixed to the stuffing box in for this design variant. Flush lines connect to seal gland or stuffing box ports for all sealing configurations.



Integrated Stuffing Box Design (Integrated Seal Chamber)

The integrated stuffing box design omits the need for a separate stuffing box. Instead, the upper and lower casing halves form a seal chamber when the pump is assembled. Seal gland, cartridge seals, and packing glands are fastened directly to the pump casing. Flush lines connect to seal gland ports for mechanical and cartridge seal configurations. Flush lines connect to ports located on top of the upper casing for the packing seal configuration.



Exploded View Legend¹

Drop-in Stuffing Box Design

No.	Description
1	External flush line
2	Upper casing
3	Gasket (parting flange)
4	Outboard end cap
5	Gasket (bearing gland)
6	Bearing housing
7	Shaft guard
8	Locknut and tab washer (outboard bearing only)
9	Deep groove ball bearing (single row)
10	Shoulder ring (outboard bearing only)
11	Bearing gland
12	Bearing seal ring (labyrinth seal)
13	Seal gland
14	O-ring (seal gland)
15	Stuffing box with O-rings
16	Mechanical seal
17	Drive ring
18	Shaft sleeve nut
19	Tab washer (shaft sleeve nut)
20	Shaft sleeve
21	O-ring (shaft sleeve)
22	Impeller hub sleeve
23	Gasket (impeller hub sleeve)
24	Casing wear ring
25	O-ring (casing wear ring)
26	Impeller wear ring
27	Impeller
28	Impeller Key
29	Shaft
30	Heterotype key (shaft sleeve)
31	Coupling key
32	Lower casing

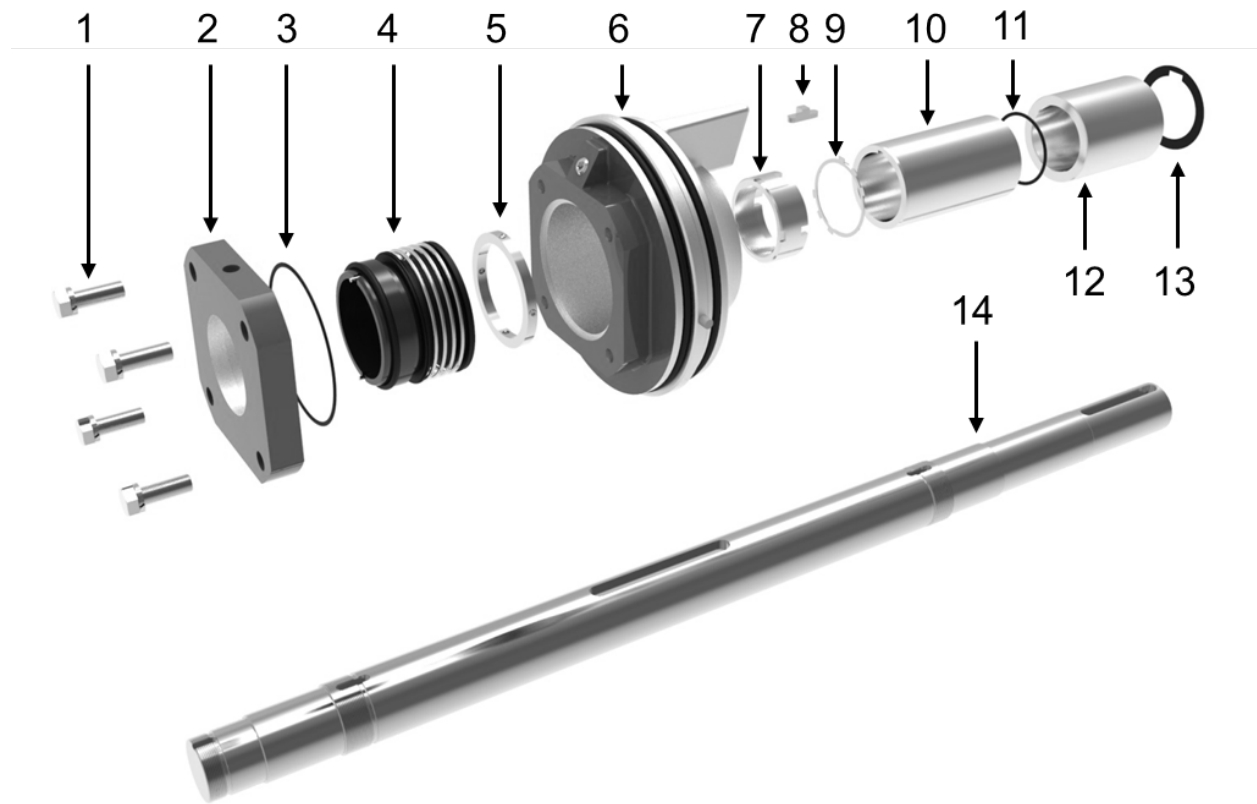
¹The integrated stuffing box design assembly is identical to the drop-in assembly with the exception of items related to the stuffing box (item 15).

Seal Chamber Interchangeability Charts

The diagrams below show the seal chamber components required for each seal configuration. The interchangeability tables map out how to switch from the standard seal configuration to any other configuration. These tables only map out how to change from a dry to wet shaft configuration between the standard seal configurations for each shaft type. Consult the factory for information regarding seal interchangeabilities not outlined in this document. The diagrams below depict seal configurations for the drop-in stuffing box casing design. For integrated stuffing box casing designs, simply omit the stuffing box and its related components.

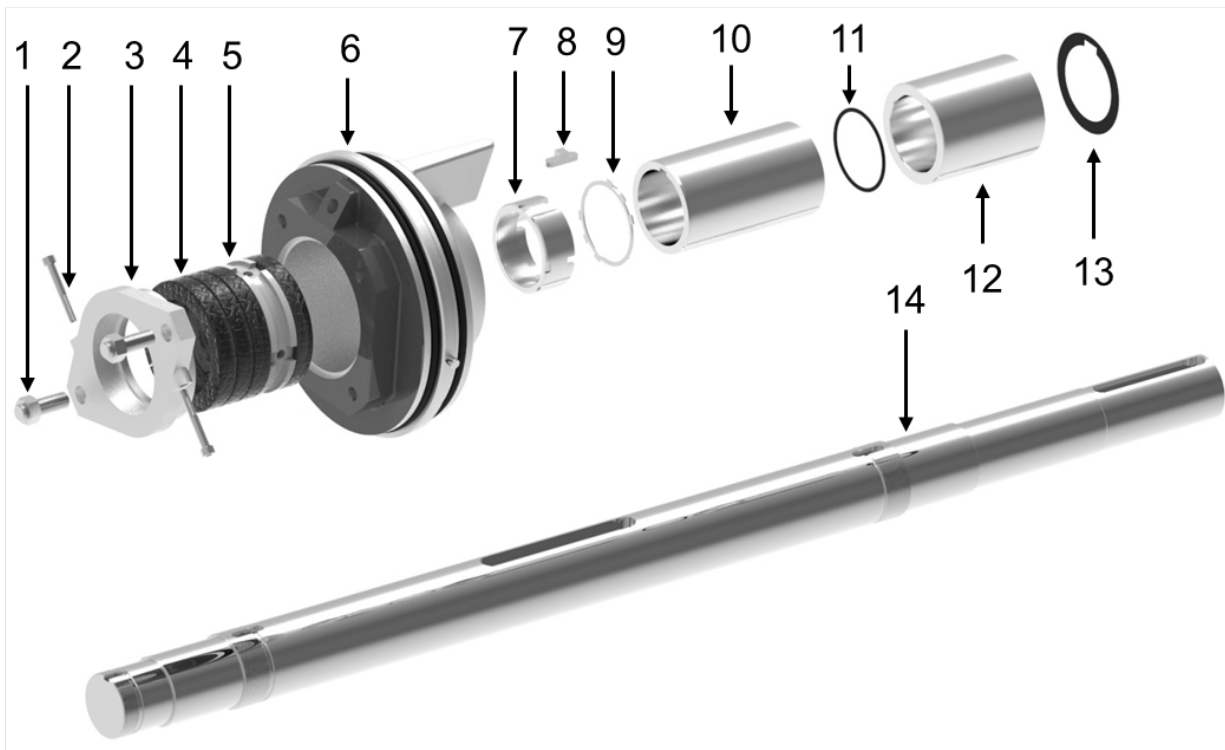
Dry Shaft Configurations (Seal on Sleeve)

MR4 Mechanical Seal (Standard Configuration)



No.	Description	No.	Description
1	Seal gland fasteners (bolt and washer)	8	Heterotype key (shaft sleeve)
2	Seal gland	9	Tab washer (shaft sleeve nut)
3	O-ring (seal gland)	10	Shaft sleeve
4	MR4 mechanical seal	11	O-ring (shaft sleeve)
5	Drive ring	12	Impeller hub sleeve
6	Stuffing box (with pin, O-rings, and plug)	13	Gasket (impeller hub sleeve)
7	Sleeve nut	14	Shaft

Packing¹



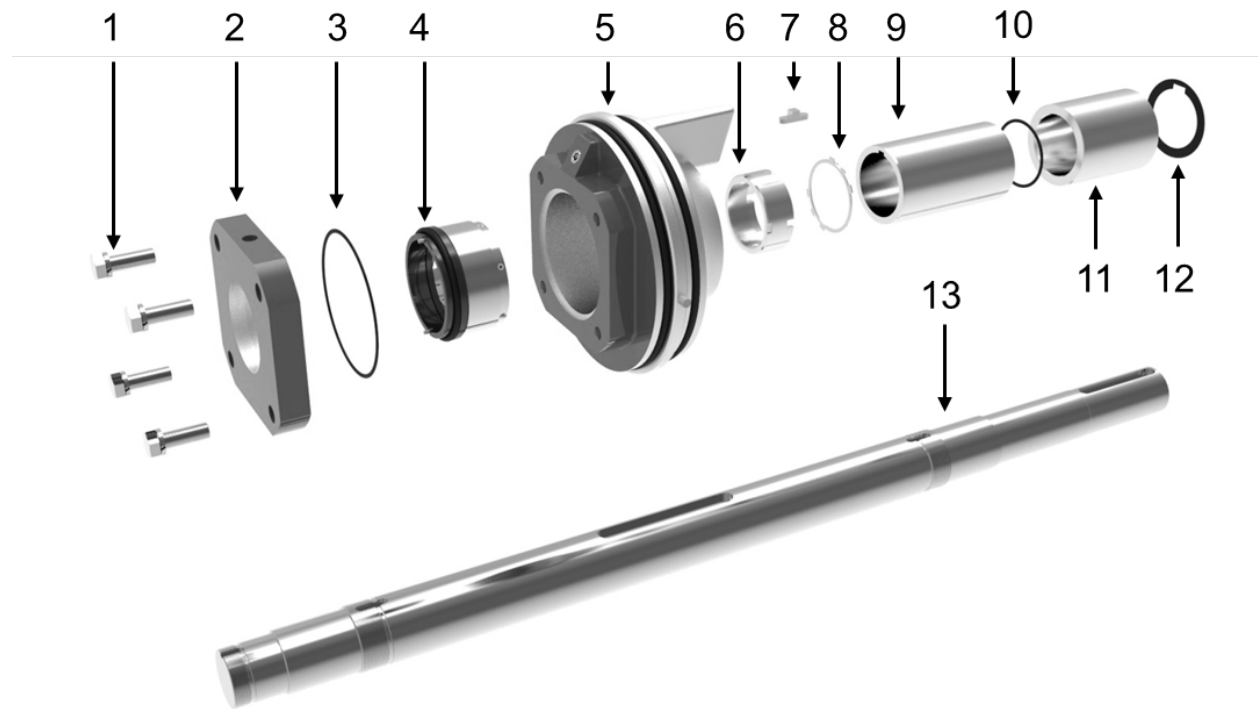
No.	Description	No.	Description
1	Packing gland fasteners (stud and nut)	8	Heterotype key (shaft sleeve)
2	Threaded bolt (joins gland halves)	9	Tab washer (shaft sleeve nut)
3	Packing gland	10	Shaft sleeve
4	Packing	11	O-ring (shaft sleeve)
5	Lantern ring	12	Impeller hub sleeve
6	Stuffing box (with pin and O-rings)	13	Gasket (impeller hub sleeve)
7	Sleeve nut	14	Shaft

Interchangeability Table (Dry Shaft)

Remove from standard MR4 configuration							Add from packing configuration						
Item No.	1	2	3	4	5	10	Item No.	1	2	3	4	5	10

¹Switching to or from a packing configuration also requires a different shaft guard (item 7 within the e-XC pump exploded view).

MR3 Mechanical Seal

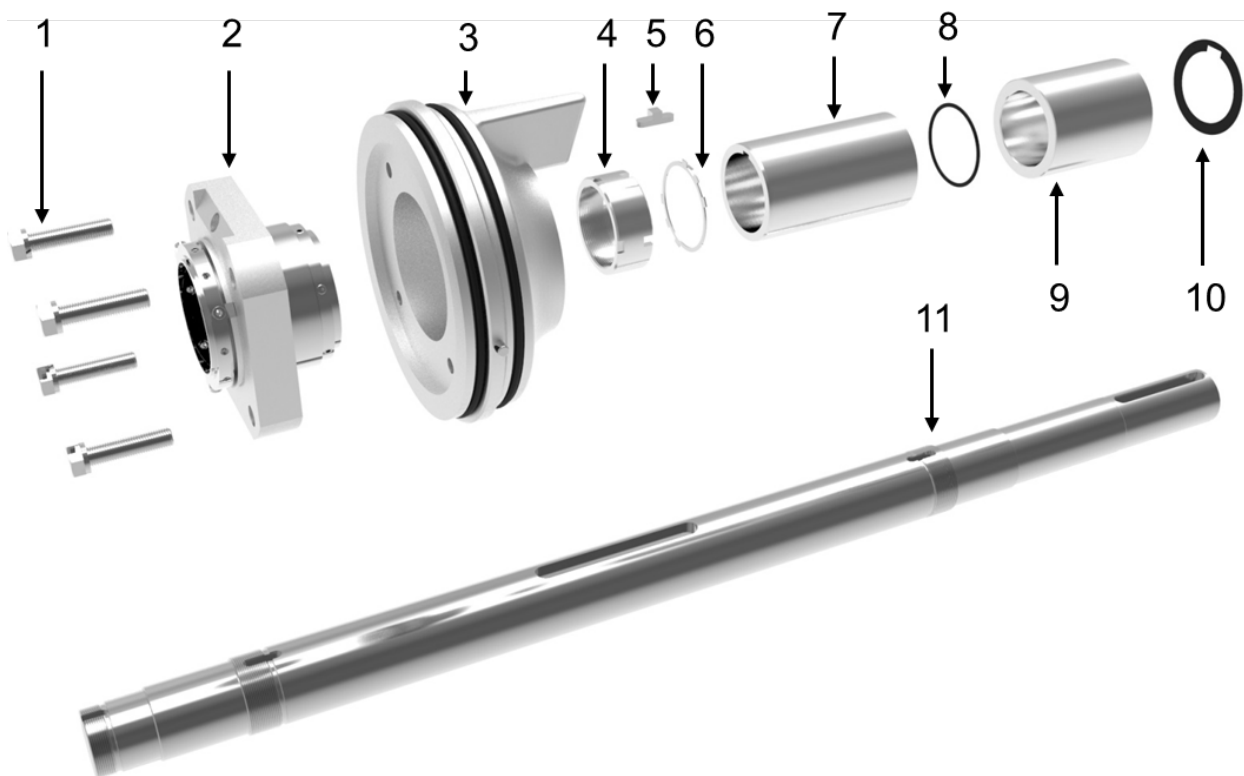


No.	Description	No.	Description
1	Seal gland fasteners (bolt and washer)	8	Tab washer (shaft sleeve nut)
2	Seal gland	9	Shaft sleeve
3	O-ring (seal gland)	10	O-ring (shaft sleeve)
4	MR3 mechanical seal	11	Impeller hub sleeve
5	Stuffing box (with pin, O-rings, and plug)	12	Gasket (impeller hub sleeve)
6	Sleeve nut	13	Shaft
7	Heterotype key (shaft sleeve)		

Interchangeability Table (Dry Shaft)

Remove from standard MR4 configuration			Add from MR3 configuration	
Item No.	4	5	Item No.	4

MR8 Cartridge Seal



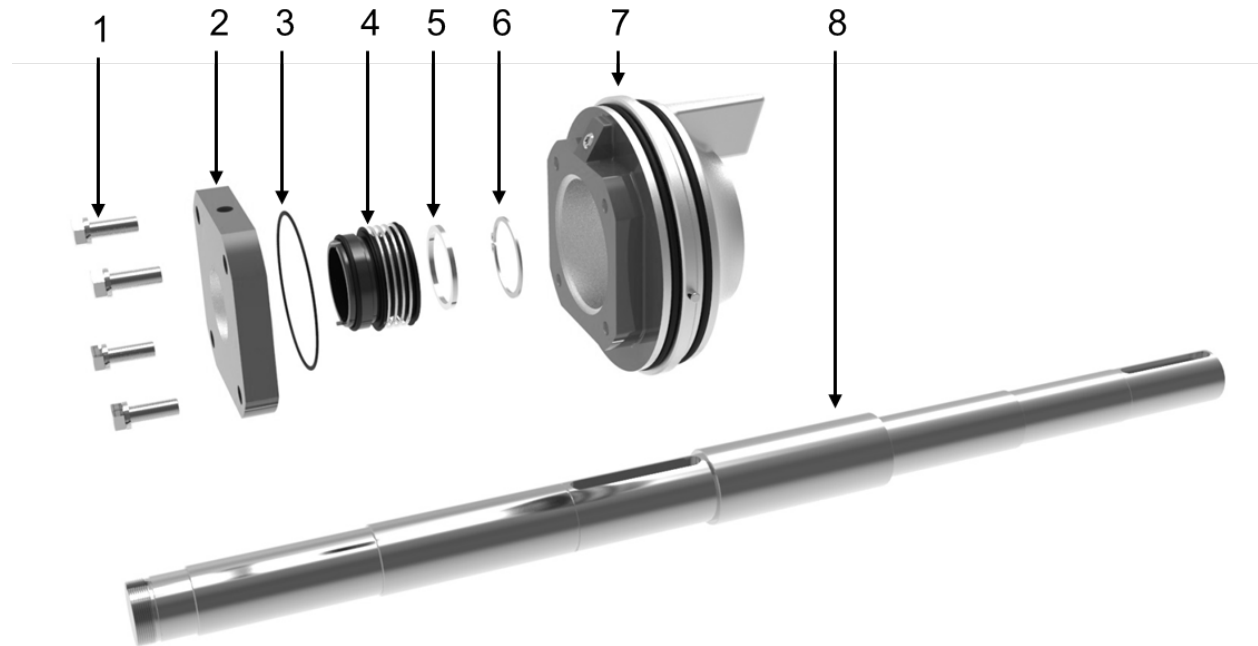
No.	Description	No.	Description
1	Seal gland fasteners (bolt and washer)	8	O-ring (shaft sleeve)
2	MR8 cartridge seal	9	Impeller hub sleeve
3	Stuffing box (with pin and O-rings)	10	Gasket (impeller hub sleeve)
4	Sleeve nut	11	Shaft
5	Heterotype key (shaft sleeve)		
6	Tab washer (shaft sleeve nut)		
7	Shaft sleeve		

Interchangeability Table (Dry Shaft)

Remove from standard MR4 configuration							Add from MR8 configuration			
Item No.	1	2	3	4	5	6	Item No.	1	2	3

Wet Shaft Configurations (Seal on Shaft)

MR4 Mechanical Seal (Standard Configuration)



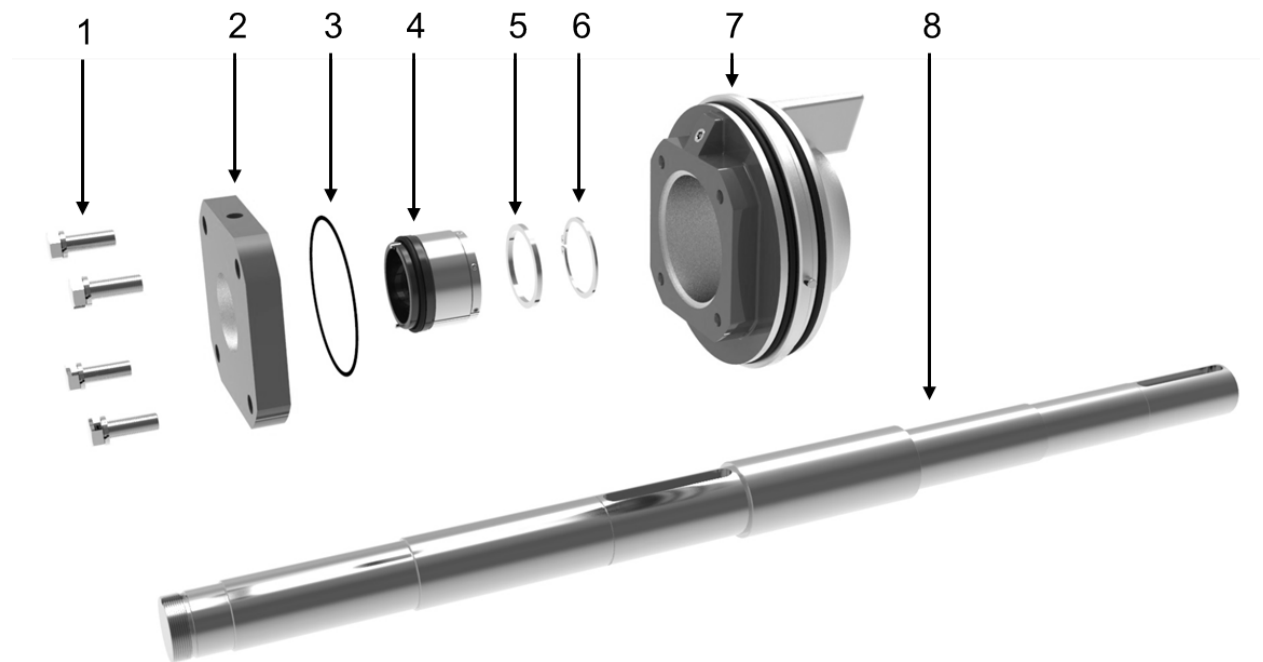
No.	Description
1	Seal gland fasteners (bolt and washer)
2	Seal gland
3	O-ring (seal gland)
4	MR4 mechanical seal
5	Shoulder ring (outboard end only)
6	Impeller snap ring (outboard end only)
7	Stuffing box (with pin, O-rings, and plug)
8	Shaft

Interchangeability Table (Dry to Wet Shaft)¹

Remove from std. dry shaft MR4 configuration					Add from std. wet shaft MR4 configuration					
Item No.	2	4	5	7-14	Item No.	2	4	5	6	8

¹Impeller key may change when switching from dry to wet shaft configuration.

MR3 Mechanical Seal

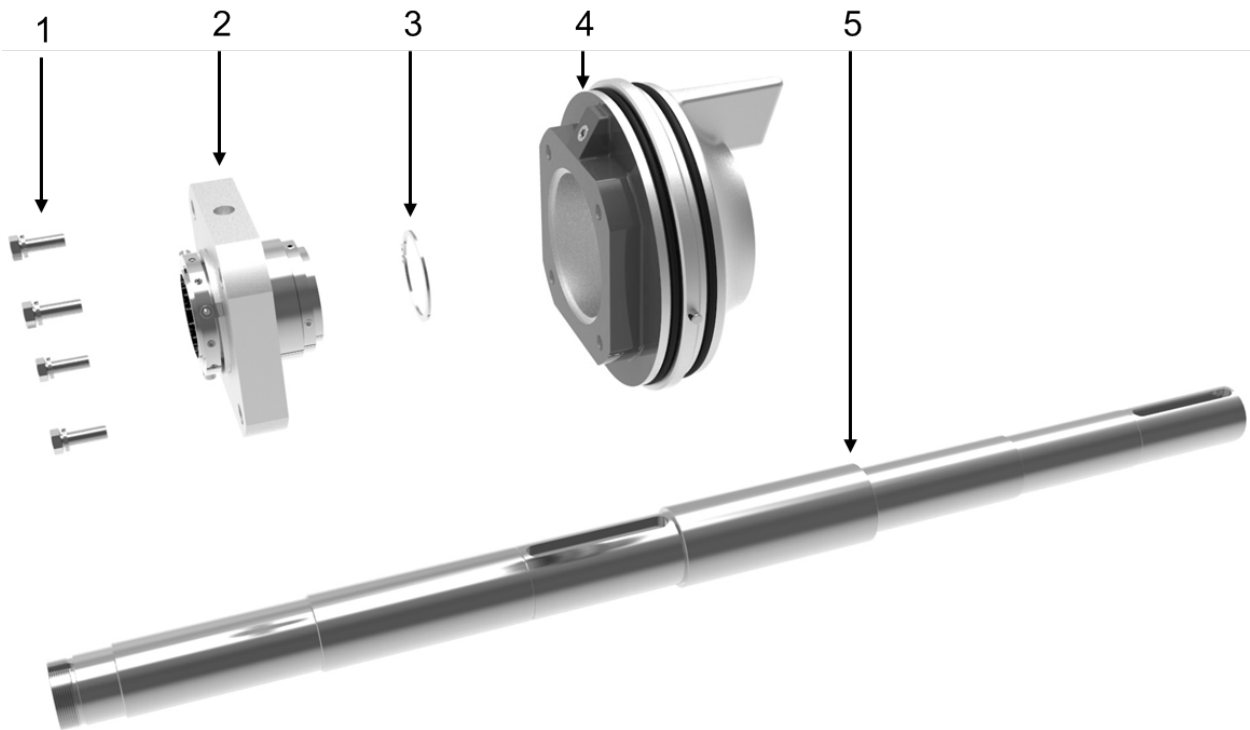


No.	Description
1	Seal gland fasteners (bolt and washer)
2	Seal gland
3	O-ring (seal gland)
4	MR3 mechanical seal
5	Shoulder ring (outboard end only)
6	Impeller snap ring (outboard end only)
7	Stuffing box (with pin, O-rings, and plug)
8	Shaft

Interchangeability Table (Wet Shaft)

Remove from standard MR4 configuration		Add from MR3 configuration	
Item No.	4	Item No.	4

MR6 Cartridge Seal



No.	Description
1	Seal gland fasteners (bolt and washer)
2	MR6 cartridge seal
3	Impeller snap ring (outboard end only)
4	Stuffing box (with pin, O-rings, and plug)
5	Shaft

Interchangeability Table (Wet Shaft)

Remove from standard MR4 configuration						Add from MR6 configuration		
Item No.	1	2	3	4	5	Item No.	1	2

Materials of Construction¹

COMPONENT	STANDARD OPTION ¹	OTHER AVAILABLE OPTIONS ¹				
Casing²	Cast Iron NO.35 Ductile Iron 65-45-12	316 SS		Duplex SS		Super Duplex
Shaft (seal on shaft)³	SS 420			Duplex SS		
Shaft (seal on sleeve)	5140			4135		
Impeller²	304 SS	316 SS		Duplex SS		Super Duplex
Casing wear rings	Bronze C90300	304 SS	316 SS	Duplex SS	Super Duplex	Nitronic 60
Imp. wear rings²	304 SS	316 SS		Duplex SS		Super Duplex
Shaft sleeves	304 SS	316 SS			Duplex SS	
Shaft sleeve nuts	304 SS	316 SS			Duplex SS	
Packing³	Style 608D Graphite			-		
Lantern ring³	PTFE			Cast Iron		
Seal flush lines	304 SS 316 SS			Nylon		
Mechanical seal type⁴	MR3 MR4		MR6			MR8
Other casted components²	Cast Iron NO.30			-		
Bearings	Steel			-		
Bolts	Steel			-		
Pipe Plugs	Steel			-		
O-Rings	Rubber (FKM)			-		
Gaskets	Aramid Fiber			-		
Retaining ring	304 SS			-		
Shoulder rings	Steel			-		
Protective Guard	304 SS			-		

¹For information regarding NSF/ANSI 61 and NSF/ANSI 372 certified configurations, see page 102.

²Specified according to ASTM A48, A536, or A743 standards

³Optional component with a standard material configuration

⁴For mechanical seal material configuration details, see 'Mechanical Seals' section

Packing

Attributes

- Style 608D graphite packing with PTFE lantern ring
- Pressure: up to 300 psi [20.7 bar]
- Temperature: 0 to 250°F [-18 to 121°C]
- Shaft speed: 4000 FPM [20 m/s]
- Optional sealing configuration
- Available only for dry shaft configuration



Mechanical Seals – MR4

Attributes

- Unbalanced unitized rubber bellow seal
- Pressure: up to 175 psi [12 bar]
- Temperature: 0 to 250°F [-18 to 121°C]
- Standard for casing pressures below 175 psi [12 bar]
- Available for shaft sizes up to 4"
- Available for wet and dry shaft configurations

Material Configurations

1. Carbon/Silicon Carbide/EPDM¹

¹Standard material configuration



Mechanical Seals – MR3

Attributes

- Balanced high pressure metal pusher seal
- Pressure: up to 450 psi [31 bar]
- Temperature: 0 to 250°F [-18 to 121°C]
- Standard for casing pressures above 175 psi [12 bar]
- Available for all shaft sizes
- Available for wet and dry shaft configurations

Material Configurations

1. Carbon/Silicon Carbide/EPDM¹
2. Silicon Carbide/Silicon Carbide/EPDM
3. Carbon/Silicon Carbide/FKM
4. Silicon Carbide/Silicon Carbide/FKM

¹Standard material configuration



Mechanical Seals – MR6

Attributes

- Balanced high pressure metal pusher cartridge seal
- Pressure: up to 450 psi [31 bar]
- Temperature: 0 to 250°F [-18 to 121°C]
- Optional sealing configuration
- Available for all shaft sizes
- Available only for wet shaft configuration

Material Configurations

1. Carbon/Silicon Carbide/EPDM¹
2. Silicon Carbide/Silicon Carbide/EPDM
3. Carbon/Silicon Carbide/FKM
4. Silicon Carbide/Silicon Carbide/FKM

¹Standard material configuration



Mechanical Seals – MR8

Attributes

- Balanced high pressure metal pusher cartridge seal
- Pressure: up to 450 psi [31 bar]
- Temperature: 0 to 250°F [-18 to 121°C]
- Optional sealing configuration
- Available for all shaft sizes
- Available only for dry shaft configuration

Material Configurations

1. Carbon/Silicon Carbide/EPDM¹
2. Silicon Carbide/Silicon Carbide/EPDM
3. Carbon/Silicon Carbide/FKM
4. Silicon Carbide/Silicon Carbide/FKM

¹Standard material configuration



Coupling, Motor and Accessory Overview

Couplings

COUPLING TYPE	STANDARD	OPTIONAL
Spacer	N/A	Duraflex® Falk Steelflex® Falk Gear Type
Non-Spacer	Duraflex® Falk Steelflex® ¹	Falk Steelflex® Falk Gear Type

¹Standard only if Duraflex® coupling size is not available

Motors

ITEM	STANDARD	OPTIONAL
Motor Type	Premium Efficiency ¹	-
Voltage	3 x 460/575 V	-
Power	0-1000 hp	1000+ hp
Poles	2/4/6/8	-
Enclosure ²	Open Drip Proof (ODP) Totally Enclosed Fan Cooled (TEFC)	-
Service Factor	1.15	-
Insulation	Class F	-
Inverter Ready	Yes	-
Alignment ³	Jacking Screws (8)	-

¹Based upon EISA 2010 standards

²Max 3-phase ambient temperature of 104°F [40°C]

³Standard after 215 frame size, two per motor corner.

Standard Accessories

ITEM	DESCRIPTION	Attributes
Coupling Guard¹	Safety enclosure for protection against rotating components	ANSI/OSHA compliant, powder coated safety orange
External Flushing	Plan 11 external flushing of seals	Stainless steel flush lines
Baseplate	Grouted baseplate	Formed steel

¹Powder coated guard cannot be considered non-sparking

Optional Accessories

ITEM	DESCRIPTION	Attributes
Vibration Monitoring¹	PCB Piezotronics Industrial Velocity Transmitter	Dual-axis, 3 to 1k Hz
Temperature Monitoring²	Prosense ETS Series Digital Temperature Sensor	-58 to 302°F [-50 to 150°C]
Pressure Monitoring³	American Sensor Technologies Pressure Sensor	0 to 300 psi [0 to 20.7 bar]
Drip Pan	Rectangular inboard-to-outboard drip pan	Galvanized steel
Oil Lubrication Kit	Oil lubrication kit for bearings	4 oz. oiler assembly, breather vent and sight glass included
VFD	Aquavar® IPC	See specifications through the Intellitronic X selection software
Motor Monitoring	PTC/RTD Sensors	Consult factory for information

¹Output: 4 to 20 mA, 0 to 1 in/sec pk, 2-pin connection

²Outputs 1 and 2: Switch PNP, N.O./N.C. selectable or 4 to 20 mA, 4-digit display

³Output: 4 to 20 mA

FRONT VIEW (VIEWED FROM DRIVER END)

Dimensions: X, YY, SF-T, Z, S, DF-T, A, B, C, D, E, F, G, H, I, J, K, L, M, N.

Labels: DISCHARGE, SUCTION, CLOCKWISE ROTATION VIEWED FROM DRIVER END, 2 X 1/2 NPT (GAUGE), 2 X 1/2 NPT (DRAIN), 2 X 1/4 NPT (TEMPERATURE SENSOR AT DRIVING & NON-DRIVING END), 2 X 1/4-20 UNF (VIBRATION SENSOR AT DRIVING & NON-DRIVING END), 1/4 NPT (TEMPERATURE SENSOR AT DRIVING & NON-DRIVING END), 2 X 1/4 NPT (TRICO OLIER AT DRIVING & NON-DRIVING END FOR OIL LUBRICATION) OPTIONAL, 2 X 1/2 NPT (OL SIGHT GLASS AT DRIVING & NON-DRIVING END FOR OIL LUBRICATION) OPTIONAL, 4-ØK.

SECTION A-A SCALE 0.750

PUMP FOOT DIMENSIONS VIEWED FROM P

Dimensions: B, B1, B2, A2, A1, A.

DISCHARGE FLANGE (ANSI / AWWA COMPATIBLE DP-FC) ØF-HD HOLES EVENLY SPACED

SUCTION FLANGE (ANSI / AWWA COMPATIBLE SF-FC) SF-HQ HOLES EVENLY SPACED

3D ISOMETRIC VIEW

TITLE: E-XC PUMP END ONLY CWR

DATE: 03/19

SCALE: 1/8" = 1'-0"

REVISION

DATE

BY

CHK

APP.

REVISION

DATE

BY

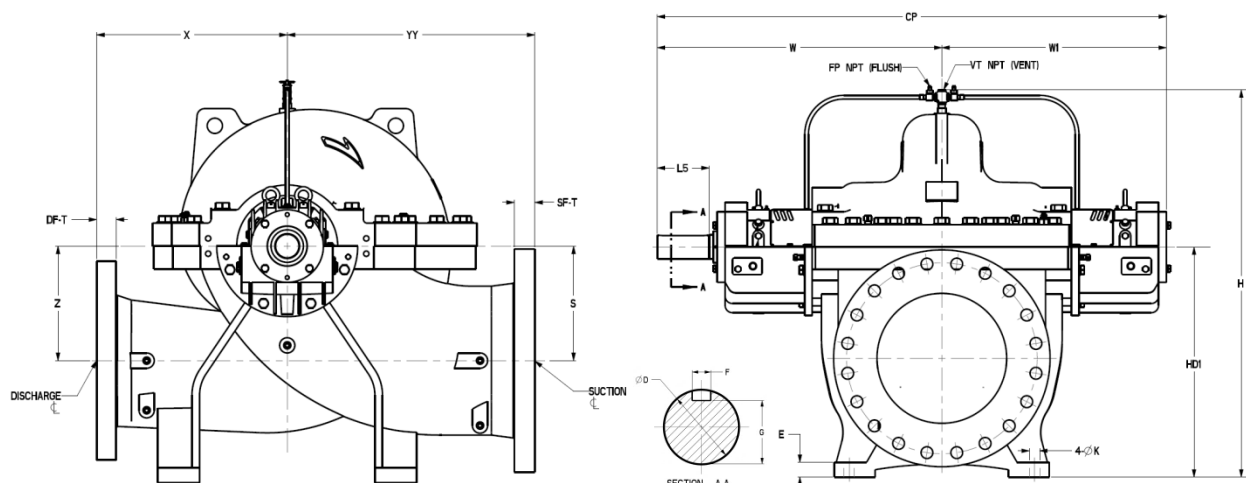
CHK

APP.

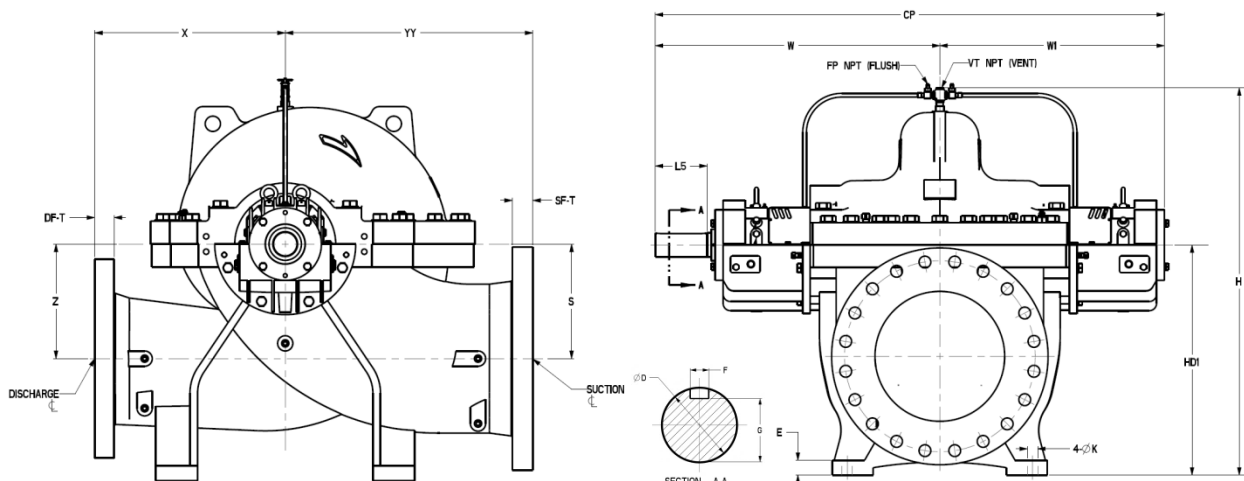
TOLERANCES UNLESS OTHERWISE SPECIFIED:

3/16" ± 0.005 1/8" ± 0.005 1/4" ± 0.005 3/8" ± 0.005 1/2" ± 0.005 3/4" ± 0.005 1" ± 0.005 1 1/2" ± 0.005 2" ± 0.005 3" ± 0.005 4" ± 0.005 6" ± 0.005 8" ± 0.005 10" ± 0.005 12" ± 0.005 14" ± 0.005 16" ± 0.005 18" ± 0.005 20" ± 0.005 22" ± 0.005 24" ± 0.005 26" ± 0.005 28" ± 0.005 30" ± 0.005 32" ± 0.005 34" ± 0.005 36" ± 0.005 38" ± 0.005 40" ± 0.005 42" ± 0.005 44" ± 0.005 46" ± 0.005 48" ± 0.005 50" ± 0.005 52" ± 0.005 54" ± 0.005 56" ± 0.005 58" ± 0.005 60" ± 0.005 62" ± 0.005 64" ± 0.005 66" ± 0.005 68" ± 0.005 70" ± 0.005 72" ± 0.005 74" ± 0.005 76" ± 0.005 78" ± 0.005 80" ± 0.005 82" ± 0.005 84" ± 0.005 86" ± 0.005 88" ± 0.005 90" ± 0.005 92" ± 0.005 94" ± 0.005 96" ± 0.005 98" ± 0.005 100" ± 0.005 102" ± 0.005 104" ± 0.005 106" ± 0.005 108" ± 0.005 110" ± 0.005 112" ± 0.005 114" ± 0.005 116" ± 0.005 118" ± 0.005 120" ± 0.005 122" ± 0.005 124" ± 0.005 126" ± 0.005 128" ± 0.005 130" ± 0.005 132" ± 0.005 134" ± 0.005 136" ± 0.005 138" ± 0.005 140" ± 0.005 142" ± 0.005 144" ± 0.005 146" ± 0.005 148" ± 0.005 150" ± 0.005 152" ± 0.005 154" ± 0.005 156" ± 0.005 158" ± 0.005 160" ± 0.005 162" ± 0.005 164" ± 0.005 166" ± 0.005 168" ± 0.005 170" ± 0.005 172" ± 0.005 174" ± 0.005 176" ± 0.005 178" ± 0.005 180" ± 0.005 182" ± 0.005 184" ± 0.005 186" ± 0.005 188" ± 0.005 190" ± 0.005 192" ± 0.005 194" ± 0.005 196" ± 0.005 198" ± 0.005 200" ± 0.005 202" ± 0.005 204" ± 0.005 206" ± 0.005 208" ± 0.005 210" ± 0.005 212" ± 0.005 214" ± 0.005 216" ± 0.005 218" ± 0.005 220" ± 0.005 222" ± 0.005 224" ± 0.005 226" ± 0.005 228" ± 0.005 230" ± 0.005 232" ± 0.005 234" ± 0.005 236" ± 0.005 238" ± 0.005 240" ± 0.005 242" ± 0.005 244" ± 0.005 246" ± 0.005 248" ± 0.005 250" ± 0.005 252" ± 0.005 254" ± 0.005 256" ± 0.005 258" ± 0.005 260" ± 0.005 262" ± 0.005 264" ± 0.005 266" ± 0.005 268" ± 0.005 270" ± 0.005 272" ± 0.005 274" ± 0.005 276" ± 0.005 278" ± 0.005 280" ± 0.005 282" ± 0.005 284" ± 0.005 286" ± 0.005 288" ± 0.005 290" ± 0.005 292" ± 0.005 294" ± 0.005 296" ± 0.005 298" ± 0.005 300" ± 0.005 302" ± 0.005 304" ± 0.005 306" ± 0.005 308" ± 0.005 310" ± 0.005 312" ± 0.005 314" ± 0.005 316" ± 0.005 318" ± 0.005 320" ± 0.005 322" ± 0.005 324" ± 0.005 326" ± 0.005 328" ± 0.005 330" ± 0.005 332" ± 0.005 334" ± 0.005 336" ± 0.005 338" ± 0.005 340" ± 0.005 342" ± 0.005 344" ± 0.005 346" ± 0.005 348" ± 0.005 350" ± 0.005 352" ± 0.005 354" ± 0.005 356" ± 0.005 358" ± 0.005 360" ± 0.005 362" ± 0.005 364" ± 0.005 366" ± 0.005 368" ± 0.005 370" ± 0.005 372" ± 0.005 374" ± 0.005 376" ± 0.005 378" ± 0.005 380" ± 0.005 382" ± 0.005 384" ± 0.005 386" ± 0.005 388" ± 0.005 390" ± 0.005 392" ± 0.005 394" ± 0.005 396" ± 0.005 398" ± 0.005 400" ± 0.005 402" ± 0.005 404" ± 0.005 406" ± 0.005 408" ± 0.005 410" ± 0.005 412" ± 0.005 414" ± 0.005 416" ± 0.005 418" ± 0.005 420" ± 0.005 422" ± 0.005 424" ± 0.005 426" ± 0.005 428" ± 0.005 430" ± 0.005 432" ± 0.005 434" ± 0.005 436" ± 0.005 438" ± 0.005 440" ± 0.005 442" ± 0.005 444" ± 0.005 446" ± 0.005 448" ± 0.005 450" ± 0.005 452" ± 0.005 454" ± 0.005 456" ± 0.005 458" ± 0.005 460" ± 0.005 462" ± 0.005 464" ± 0.005 466" ± 0.005 468" ± 0.005 470" ± 0.005 472" ± 0.005 474" ± 0.005 476" ± 0.005 478" ± 0.005 480" ± 0.005 482" ± 0.005 484" ± 0.005 486" ± 0.005 488" ± 0.005 490" ± 0.005 492" ± 0.005 494" ± 0.005 496" ± 0.005 498" ± 0.005 500" ± 0.005 502" ± 0.005 504" ± 0.005 506" ± 0.005 508" ± 0.005 510" ± 0.005 512" ± 0.005 514" ± 0.005 516" ± 0.005 518" ± 0.005 520" ± 0.005 522" ± 0.005 524" ± 0.005 526" ± 0.005 528" ± 0.005 530" ± 0.005 532" ± 0.005 534" ± 0.005 536" ± 0.005 538" ± 0.005 540" ± 0.005 542" ± 0.005 544" ± 0.005 546" ± 0.005 548" ± 0.005 550" ± 0.005 552" ± 0.005 554" ± 0.005 556" ± 0.005 558" ± 0.005 560" ± 0.005 562" ±

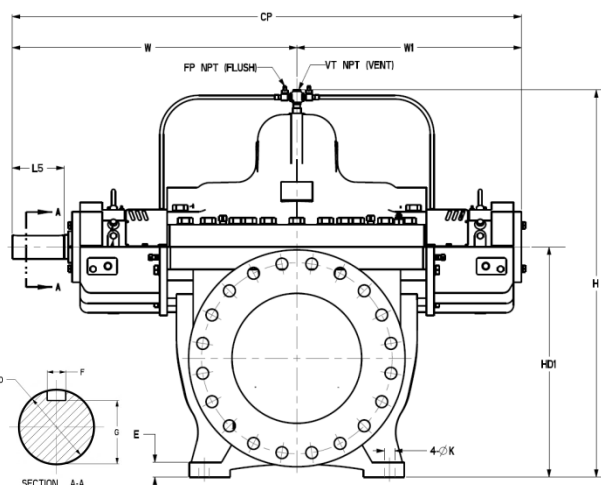
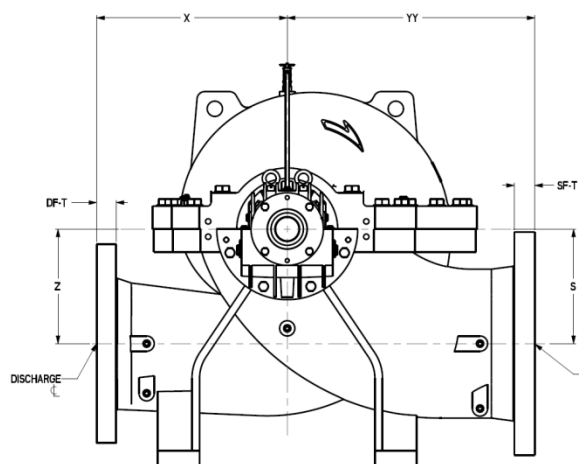
Model	3X5X8.5		Model	3X5X11		Model	3X5X12.5	
	3X5X8			3X5X10.5			3X5X12	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	11.81	300	YY	13.78	350	YY	14.57	370
X	11.81	300	X	11.81	300	X	11.81	300
H	22.05	560	H	22.24	565	H	26.38	670
HD1	12.60	320	HD1	12.60	320	HD1	14.57	370
Z	6.30	160	Z	6.30	160	Z	8.27	210
S	6.30	160	S	6.30	160	S	8.27	210
B	13.78	350	B	13.78	350	B	13.78	350
B1	11.81	300	B1	11.81	300	B1	11.81	300
B2	8.27	210	B2	8.27	210	B2	8.27	210
W1	17.83	453	W1	17.83	453	W1	17.83	453
W	21.38	543	W	21.38	543	W	21.38	543
CP	39.21	996	CP	39.21	996	CP	39.21	996
L5	3.15	80	L5	3.15	80	L5	3.15	80
D	1.38	35	D	1.38	35	D	1.38	35
A	13.78	350	A	13.78	350	A	13.78	350
A1	11.81	300	A1	11.81	300	A1	11.81	300
A2	8.27	210	A2	8.27	210	A2	8.27	210
E	0.33	30	E	0.33	30	E	0.33	30
K	0.73	18.5	K	0.73	18.5	K	0.73	18.5
G	1.18	30	G	1.18	30	G	1.18	30
F	0.39	10	F	0.39	10	F	0.39	10
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	539	245		650	295		605	275



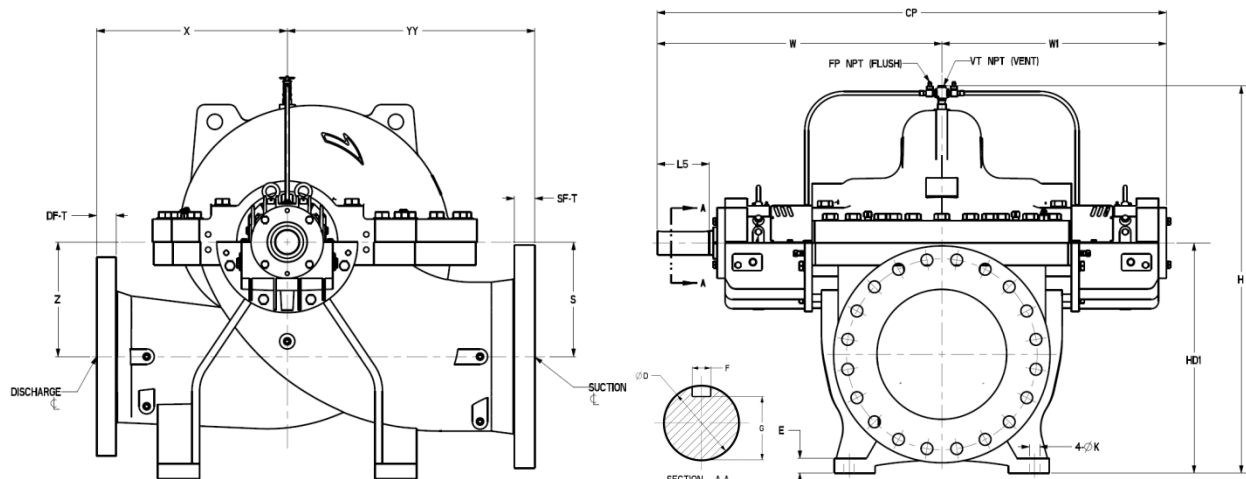
Model	3X5X13.5		Model	4X5X6.5		Model	4X6X10	
	3X5X13			4X5X6			4X6X9.5	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	14.96	380	YY	11.81	300	YY	13.78	350
X	13.78	350	X	11.81	300	X	12.99	330
H	23.43	595	H	22.05	560	H	24.21	615
HD1	12.60	320	HD1	12.60	320	HD1	13.78	350
Z	6.30	160	Z	6.30	160	Z	6.69	170
S	6.30	160	S	6.30	160	S	6.69	170
B	13.78	350	B	13.78	350	B	13.78	350
B1	11.81	300	B1	11.81	300	B1	11.81	300
B2	8.27	210	B2	8.27	210	B2	8.27	210
W1	17.83	453	W1	17.83	453	W1	17.83	453
W	21.38	543	W	21.38	543	W	21.38	543
CP	39.21	996	CP	39.21	996	CP	39.21	996
L5	3.15	80	L5	3.15	80	L5	3.15	80
D	1.38	35	D	1.38	35	D	1.38	35
A	13.78	350	A	13.78	350	A	13.78	350
A1	11.81	300	A1	11.81	300	A1	11.81	300
A2	8.27	210	A2	8.27	210	A2	8.27	210
E	0.33	30	E	0.33	30	E	0.33	30
K	0.73	18.5	K	0.73	18.5	K	0.73	18.5
G	1.18	30	G	1.18	30	G	1.18	30
F	0.39	10	F	0.39	10	F	0.39	10
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	650	295		539	245		594	270



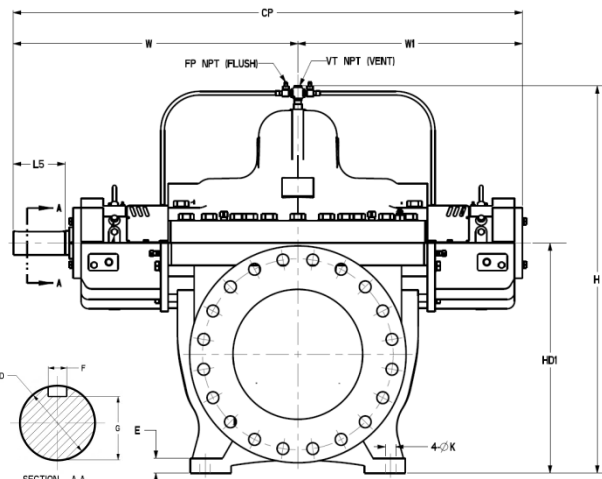
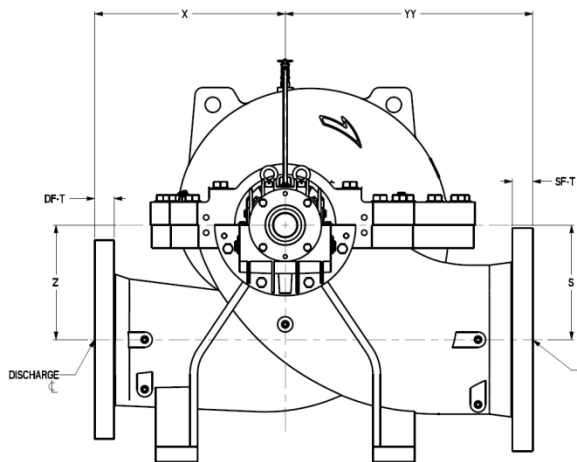
Model	4X6X13		Model	4X6X14.5		Model	4X6X16	
	4X6X12			4X6X13.5			4X6X15.5	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	15.75	400	YY	17.72	450	YY	16.93	430
X	13.78	350	X	14.57	370	X	15.75	400
H	25.20	640	H	26.38	670	H	26.77	680
HD1	13.78	350	HD1	13.78	350	HD1	13.78	350
Z	6.69	170	Z	6.69	170	Z	6.69	170
S	6.69	170	S	6.69	170	S	6.69	170
B	13.78	350	B	13.78	350	B	18.50	470
B1	11.81	300	B1	11.81	300	B1	15.75	400
B2	8.27	210	B2	8.27	210	B2	11.42	290
W1	17.72	450	W1	18.11	460	W1	17.83	453
W	22.36	568	W	22.76	578	W	21.38	543
CP	40.08	1018	CP	40.87	1038	CP	39.21	996
L5	4.33	110	L5	4.33	110	L5	3.15	80
D	1.77	45	D	1.77	45	D	1.38	35
A	13.78	350	A	13.78	350	A	16.54	420
A1	11.81	300	A1	11.81	300	A1	13.78	350
A2	8.27	210	A2	8.27	210	A2	9.45	240
E	0.33	30	E	0.33	30	E	0.37	35
K	0.73	18.5	K	0.73	18.5	K	0.94	24
G	1.56	39.5	G	1.56	39.5	G	1.18	30
F	0.55	14	F	0.55	14	F	0.39	10
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	716	325		770	350		759	345



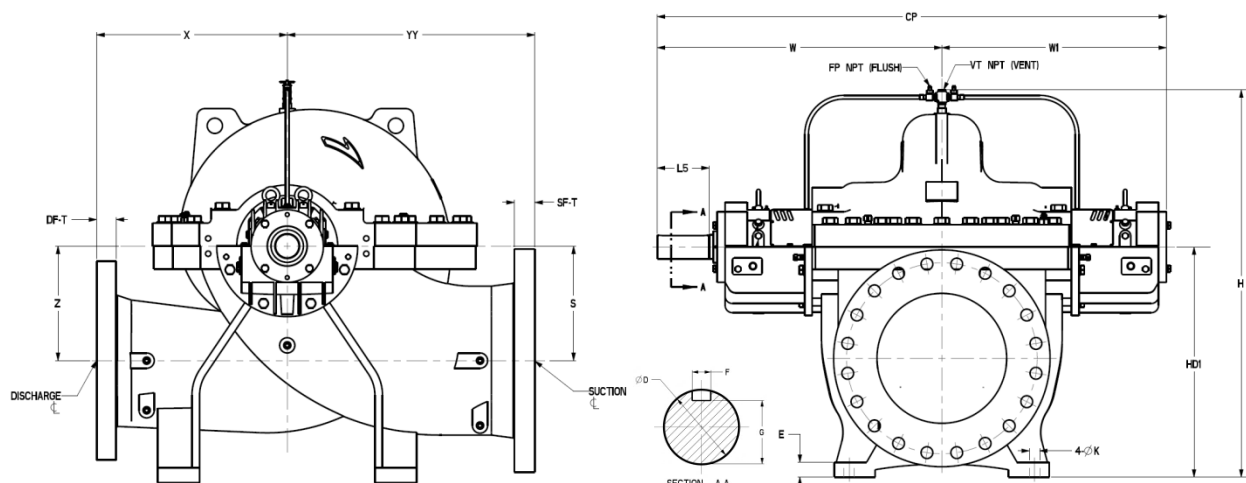
Model	5X6X7.5		Model	5X6X9		Model	5X8X9.5	
	5X6X7			5X6X8.5			5X8X9	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	13.78	350	YY	14.17	360	YY	15.75	400
X	11.81	300	X	11.81	300	X	13.78	350
H	23.54	598	H	23.82	605	H	26.57	675
HD1	13.78	350	HD1	13.78	350	HD1	16.54	420
Z	6.69	170	Z	6.69	170	Z	7.87	200
S	6.69	170	S	6.69	170	S	7.87	200
B	13.78	350	B	13.78	350	B	18.50	470
B1	11.81	300	B1	11.81	300	B1	15.75	400
B2	8.27	210	B2	8.27	210	B2	11.42	290
W1	17.83	453	W1	17.83	453	W1	19.49	495
W	21.38	543	W	21.38	543	W	24.13	613
CP	39.21	996	CP	39.21	996	CP	43.62	1108
L5	3.15	80	L5	3.15	80	L5	4.33	110
D	1.38	35	D	1.38	35	D	1.77	45
A	13.78	350	A	13.78	350	A	16.54	420
A1	11.81	300	A1	11.81	300	A1	13.78	350
A2	8.27	210	A2	8.27	210	A2	9.45	240
E	0.33	30	E	0.33	30	E	0.37	35
K	0.73	18.5	K	0.73	18.5	K	0.94	24
G	1.18	30	G	1.18	30	G	1.56	39.5
F	0.39	10	F	0.39	10	F	0.55	14
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	616	280		769	345		794	360



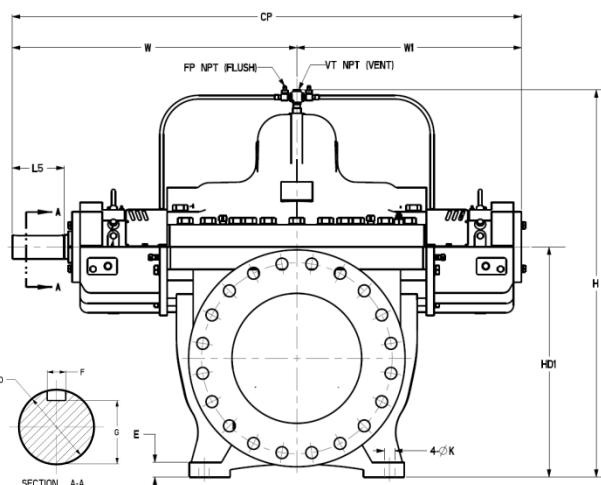
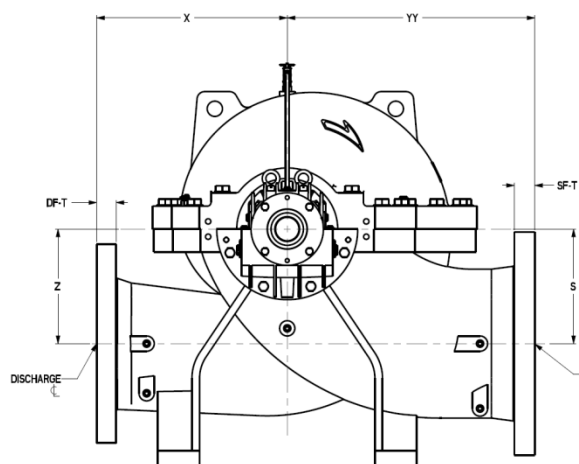
Model	5X8X12		Model	5X8X14		Model	5X8X15.5	
	5X8X11			5X8X13.5			5X8X14.5	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	15.75	400	YY	15.75	400	YY	17.72	450
X	13.78	350	X	13.78	350	X	15.75	400
H	27.56	700	H	29.13	740	H	28.94	735
HD1	16.54	420	HD1	17.72	450	HD1	16.54	420
Z	7.87	200	Z	9.06	230	Z	7.87	200
S	7.87	200	S	9.06	230	S	7.87	200
B	18.50	470	B	18.50	470	B	18.50	470
B1	15.75	400	B1	15.75	400	B1	15.75	400
B2	11.42	290	B2	11.42	290	B2	11.42	290
W1	19.49	495	W1	20.75	527	W1	19.49	495
W	24.13	613	W	25.51	648	W	24.13	613
CP	43.62	1108	CP	46.26	1175	CP	43.62	1108
L5	4.33	110	L5	4.33	110	L5	4.33	110
D	1.77	45	D	2.17	55	D	1.77	45
A	16.54	420	A	16.54	420	A	16.54	420
A1	13.78	350	A1	13.78	350	A1	13.78	350
A2	9.45	240	A2	9.45	240	A2	9.45	240
E	0.37	35	E	0.37	35	E	0.37	35
K	0.94	24	K	0.94	24	K	0.94	24
G	1.56	39.5	G	1.93	49	G	1.56	39.5
F	0.55	14	F	0.63	16	F	0.55	14
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	528	240		1331	605		937	425



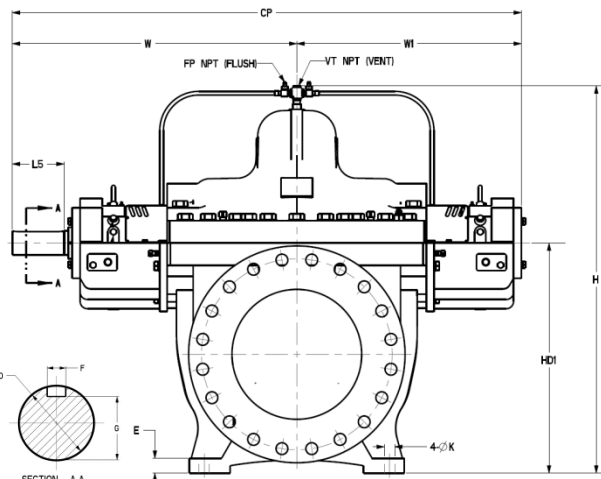
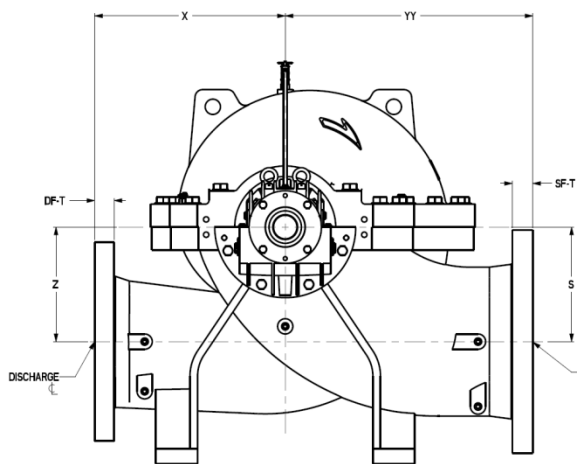
Model	5X8X19		Model	6X8X6.5		Model	6X8X12	
	5X8X18			6X8X6			6X8X11	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	19.69	500	YY	15.75	400	YY	17.72	450
X	17.72	450	X	15.75	400	X	15.75	400
H	30.51	775	H	24.02	610	H	30.04	763
HD1	16.54	420	HD1	14.96	380	HD1	17.72	450
Z	7.87	200	Z	6.30	160	Z	9.06	230
S	7.87	200	S	6.30	160	S	9.06	230
B	20.47	520	B	18.50	470	B	18.50	470
B1	17.72	450	B1	15.75	400	B1	15.75	400
B2	13.39	340	B2	11.42	290	B2	11.42	290
W1	19.49	495	W1	17.83	453	W1	20.87	530
W	24.13	613	W	21.38	543	W	25.51	648
CP	43.62	1108	CP	39.21	996	CP	46.38	1178
L5	4.33	110	L5	3.15	80	L5	4.33	110
D	1.77	45	D	1.38	35	D	1.77	45
A	20.47	520	A	16.54	420	A	16.54	420
A1	17.72	450	A1	13.78	350	A1	13.78	350
A2	13.39	340	A2	9.45	240	A2	9.45	240
E	0.53	35	E	0.37	35	E	0.37	35
K	0.94	24	K	0.94	24	K	0.94	24
G	1.56	39.5	G	1.18	30	G	1.56	39.5
F	0.55	14	F	0.39	10	F	0.55	14
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	1047	475		661	300		992	450



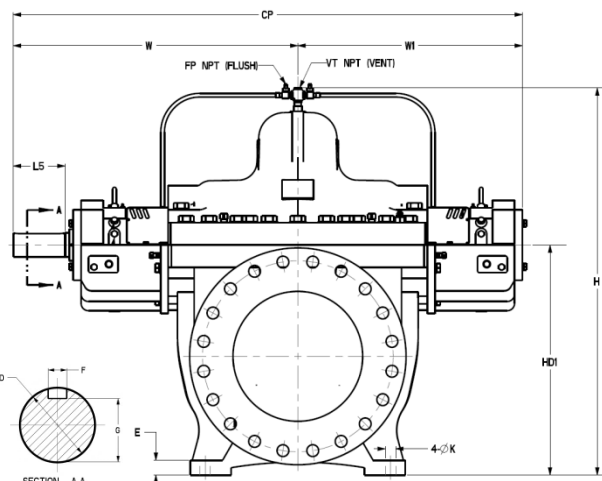
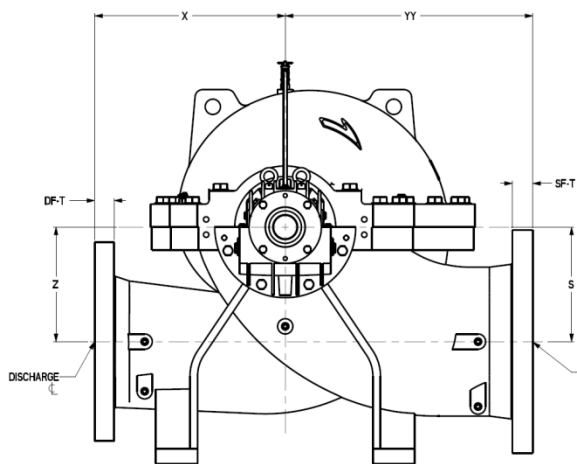
Model	6X8X14		Model	6X8X18		Model	6X8X22	
	6X8X13.5			6X8X17			6X8X21	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	17.72	450	YY	19.69	500	YY	23.62	600
X	15.75	400	X	17.72	450	X	19.69	500
H	30.31	770	H	31.54	801	H	37.52	953
HD1	17.72	450	HD1	17.72	450	HD1	20.47	520
Z	9.06	230	Z	9.06	230	Z	11.81	300
S	9.06	230	S	9.06	230	S	11.81	300
B	18.50	470	B	18.50	470	B	26.77	680
B1	15.75	400	B1	15.75	400	B1	23.62	600
B2	11.42	290	B2	11.42	290	B2	18.11	460
W1	20.87	530	W1	21.93	557	W1	23.29	592
W	25.51	648	W	26.69	678	W	29.25	743
CP	46.38	1178	CP	48.62	1235	CP	52.54	1335
L5	4.33	110	L5	4.33	110	L5	5.51	140
D	1.77	45	D	2.17	55	D	2.56	65
A	16.54	420	A	16.54	420	A	22.83	580
A1	13.78	350	A1	13.78	350	A1	19.69	500
A2	9.45	240	A2	9.45	240	A2	14.17	360
E	0.37	35	E	0.37	35	E	0.56	40
K	0.94	24	K	0.94	24	K	1.10	28
G	1.56	39.5	G	1.93	49	G	2.28	58
F	0.55	14	F	0.63	16	F	0.71	18
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	1025	465		1397	635		1914	870



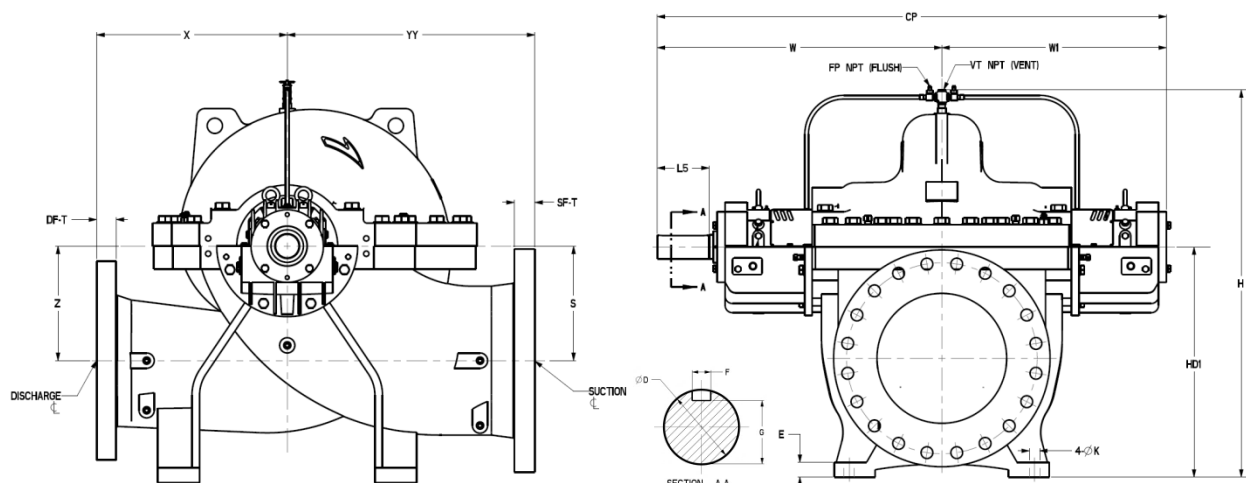
Model	6X10X11		Model	8X8X8		Model	8X10X10	
	6X10X10.5			8X8X7.5			8X10X9.5	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	17.72	450	YY	17.72	450	YY	19.69	500
X	15.75	400	X	15.75	400	X	15.75	400
H	30.12	765	H	28.35	720	H	32.40	823
HD1	18.90	480	HD1	16.54	420	HD1	18.90	480
Z	9.06	230	Z	7.87	200	Z	9.06	230
S	9.06	230	S	7.87	200	S	9.06	230
B	20.47	520	B	18.50	470	B	20.47	520
B1	17.72	450	B1	15.75	400	B1	17.72	450
B2	13.39	340	B2	11.42	290	B2	13.39	340
W1	21.91	557	W1	19.02	483	W1	20.87	530
W	26.69	678	W	22.56	573	W	25.51	648
CP	48.61	1235	CP	41.57	1056	CP	46.38	1178
L5	4.33	110	L5	3.15	80	L5	4.33	110
D	2.17	55	D	1.38	35	D	1.77	45
A	20.47	520	A	16.54	420	A	20.47	520
A1	17.72	450	A1	13.78	350	A1	17.72	450
A2	13.39	340	A2	9.45	240	A2	13.39	340
E	0.53	35	E	0.37	35	E	0.53	35
K	0.94	24	K	0.94	24	K	0.94	24
G	1.93	49	G	1.18	30	G	1.16	29.5
F	0.63	16	F	0.39	10	F	0.55	14
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	1221	555		880	400		1257	570



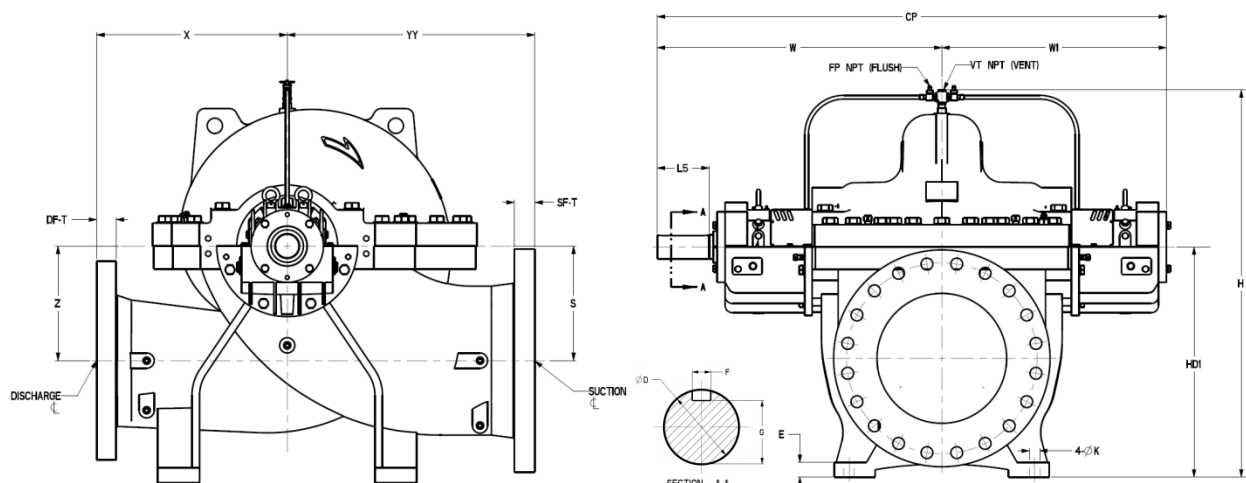
Model	8X10X13.5		Model	8X10X17		Model	8X10X21	
	8X10X13			8X10X16			8X10X20	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	19.69	500	YY	21.65	550	YY	21.65	550
X	15.75	400	X	19.69	500	X	19.69	500
H	33.39	848	H	34.88	886	H	38.74	984
HD1	20.47	520	HD1	20.47	520	HD1	21.65	550
Z	10.63	270	Z	10.63	270	Z	11.81	300
S	10.63	270	S	10.63	270	S	11.81	300
B	20.47	520	B	20.47	520	B	26.77	680
B1	17.72	450	B1	17.72	450	B1	23.62	600
B2	13.39	340	B2	13.39	340	B2	18.11	460
W1	21.93	557	W1	24.09	612	W1	23.29	592
W	26.69	678	W	28.86	733	W	29.25	743
CP	48.62	1235	CP	52.95	1345	CP	52.54	1335
L5	4.33	110	L5	4.33	110	L5	5.51	140
D	2.125	55	D	2.17	55	D	2.56	65
A	20.47	520	A	20.47	520	A	22.83	580
A1	17.72	450	A1	17.72	450	A1	19.69	500
A2	13.39	340	A2	13.39	340	A2	14.17	360
E	0.53	35	E	0.53	35	E	0.56	40
K	0.94	24	K	0.94	24	K	1.10	28
G	1.93	49	G	1.93	49	G	2.28	58
F	0.63	16	F	0.63	16	F	0.71	18
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	1430	650		1632	742		2090	950



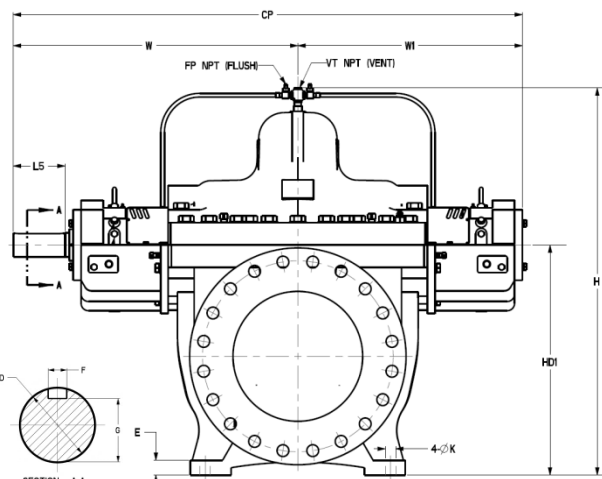
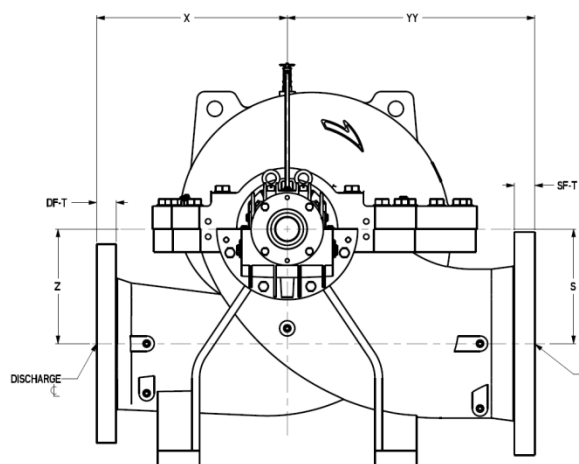
Model	8X10X26		Model	10X10X8		Model	10X12X15.5	
	8X10X25			10X10X7.5			10X12X14.5	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	25.59	650	YY	19.69	500	YY	21.65	550
X	23.62	600	X	17.72	450	X	19.69	500
H	43.70	1110	H	31.89	810	H	37.95	964
HD1	24.41	620	HD1	18.90	480	HD1	22.83	580
Z	13.78	350	Z	8.66	220	Z	11.81	300
S	13.78	350	S	8.66	220	S	11.81	300
B	26.77	680	B	20.47	520	B	26.77	680
B1	23.62	600	B1	17.72	450	B1	23.62	600
B2	18.11	460	B2	13.39	340	B2	18.11	460
W1	23.43	595	W1	20.00	508	W1	24.29	617
W	29.45	748	W	23.54	598	W	30.24	768
CP	52.87	1343	CP	43.54	1106	CP	54.53	1385
L5	5.51	140	L5	3.15	80	L5	5.51	140
D	2.95	75	D	1.38	35	D	2.56	65
A	22.83	580	A	20.47	520	A	22.83	580
A1	19.69	500	A1	17.72	450	A1	19.69	500
A2	14.17	360	A2	13.39	340	A2	14.17	360
E	0.56	40	E	0.53	35	E	0.56	40
K	1.10	28	K	0.94	24	K	1.10	28
G	2.66	67.5	G	1.18	30	G	2.28	58
F	0.79	20	F	0.39	10	F	0.71	18
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	2733	1240		957	435		1841	835



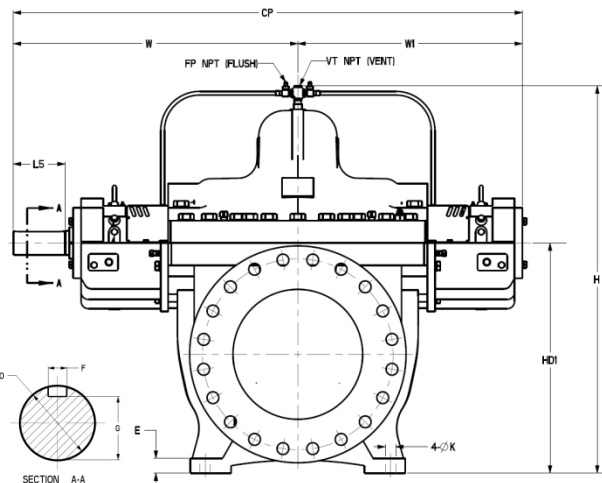
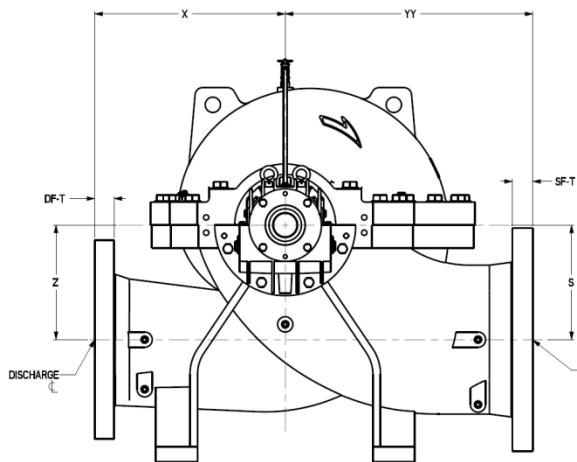
Model	10X12X19		Model	10X12X24		Model	10X12X30	
	10X12X18			10X12X23			10X12X28.5	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	23.62	600	YY	25.59	650	YY	31.50	800
X	21.65	550	X	21.65	550	X	25.59	650
H	39.76	1010	H	43.31	1100	H	52.76	1340
HD1	22.83	580	HD1	24.80	630	HD1	31.50	800
Z	11.81	300	Z	13.78	350	Z	19.69	500
S	11.81	300	S	13.78	350	S	19.69	500
B	26.77	680	B	26.77	680	B	30.71	780
B1	23.62	600	B1	23.62	600	B1	27.56	700
B2	18.11	460	B2	18.11	460	B2	20.47	520
W1	25.87	657	W1	25.79	655	W1	25.43	646
W	31.81	808	W	32.99	838	W	32.99	838
CP	57.68	1465	CP	58.78	1493	CP	58.43	1484
L5	5.51	140	L5	6.69	170	L5	6.69	170
D	2.56	65	D	3.35	85	D	3.35	85
A	22.83	580	A	22.83	580	A	24.80	630
A1	19.69	500	A1	19.69	500	A1	21.65	550
A2	14.17	360	A2	14.17	360	A2	15.35	390
E	0.56	40	E	0.56	40	E	0.60	40
K	1.10	28	K	1.10	28	K	1.10	28
G	2.28	58	G	2.99	76	G	2.99	76
F	0.71	18	F	0.87	22	F	0.87	22
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	2128	965		3008	1365		3748	1700



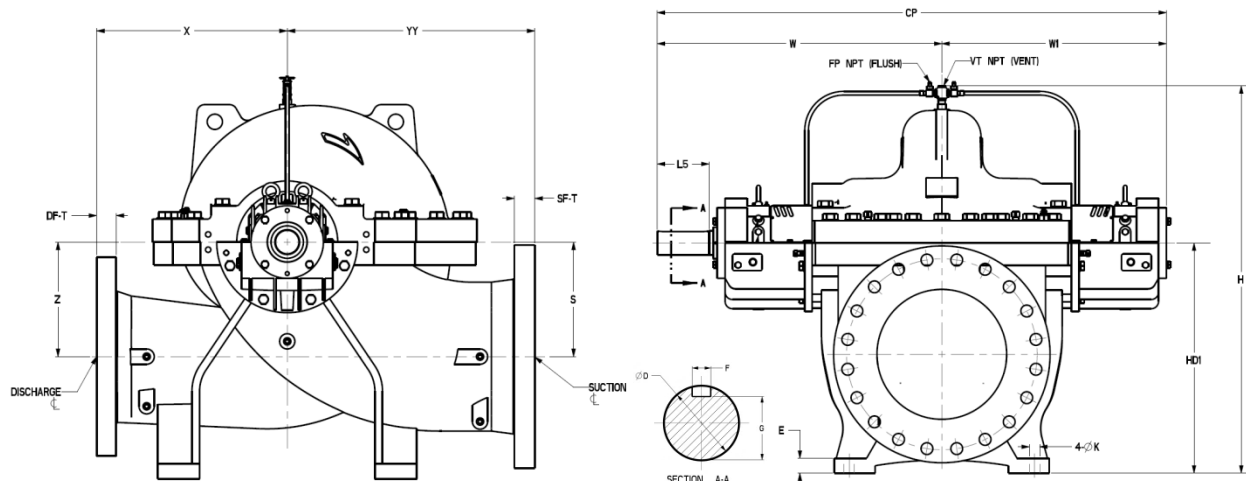
Model	12X12X9		Model	12X12X10		Model	12X14X13	
	12X12X8.5			12X12X9.5			12X14X12.5	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	21.65	550	YY	23.62	600	YY	25.59	650
X	17.72	450	X	19.69	500	X	19.69	500
H	35.63	905	H	36.81	935	H	41.50	1054
HD1	21.65	550	HD1	21.65	550	HD1	24.41	620
Z	10.63	270	Z	10.63	270	Z	11.81	300
S	10.63	270	S	10.63	270	S	11.81	300
B	20.47	520	B	20.47	520	B	26.77	680
B1	17.72	450	B1	17.72	450	B1	23.62	600
B2	13.39	340	B2	13.39	340	B2	18.11	460
W1	23.23	590	W1	17.72	450	W1	24.29	617
W	27.87	708	W	26.30	668	W	30.24	768
CP	51.10	1298	CP	44.02	1118	CP	54.53	1385
L5	4.33	110	L5	4.33	110	L5	5.51	140
D	1.77	45	D	1.77	45	D	2.56	65
A	20.47	520	A	20.47	520	A	22.83	580
A1	17.72	450	A1	17.72	450	A1	19.69	500
A2	13.39	340	A2	13.39	340	A2	14.17	360
E	0.53	35	E	0.53	35	E	0.56	40
K	0.94	24	K	0.94	24	K	1.10	28
G	1.56	39.5	G	1.56	39.5	G	2.28	58
F	0.55	14	F	0.55	14	F	0.71	18
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	1727	785		1652	751		2222	1010



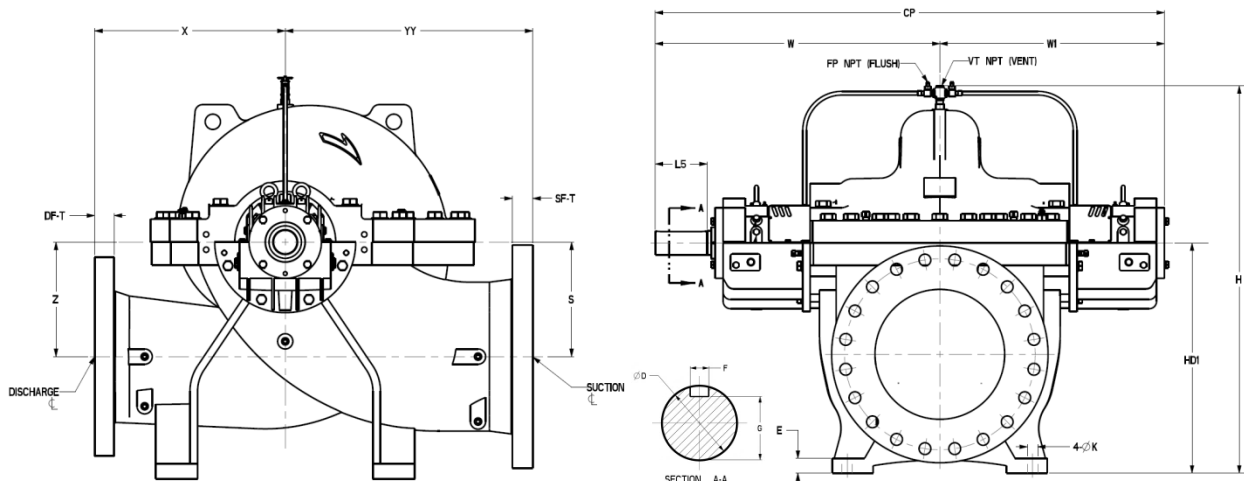
Model	12X16X18		Model	12X16X22		Model	12X16X28	
	12X16X17			12X16X21			12X16X27	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	25.59	650	YY	25.59	650	YY	31.50	800
X	23.62	600	X	23.62	600	X	25.59	650
H	44.69	1135	H	46.46	1180	H	51.34	1304
HD1	27.56	700	HD1	27.56	700	HD1	29.53	750
Z	13.78	350	Z	13.78	350	Z	15.75	400
S	13.78	350	S	13.78	350	S	15.75	400
B	30.71	780	B	30.71	780	B	35.83	910
B1	27.56	700	B1	27.56	700	B1	31.50	800
B2	20.47	520	B2	20.47	520	B2	23.23	590
W1	25.26	642	W1	29.53	750	W1	28.21	717
W	31.22	793	W	35.75	908	W	35.35	898
CP	56.48	1435	CP	65.28	1658	CP	63.57	1615
L5	5.51	140	L5	6.69	170	L5	6.69	170
D	2.95	75	D	3.35	85	D	3.74	95
A	24.80	630	A	24.80	630	A	29.92	760
A1	21.65	550	A1	21.65	550	A1	25.59	650
A2	15.35	390	A2	15.35	390	A2	18.90	480
E	0.60	40	E	0.60	40	E	0.74	45
K	1.10	28	K	1.10	28	K	1.38	35
G	2.66	67.5	G	2.99	76	G	3.39	86
F	0.79	20	F	0.87	22	F	0.98	25
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	2266	1030		3278	1490		4290	1950



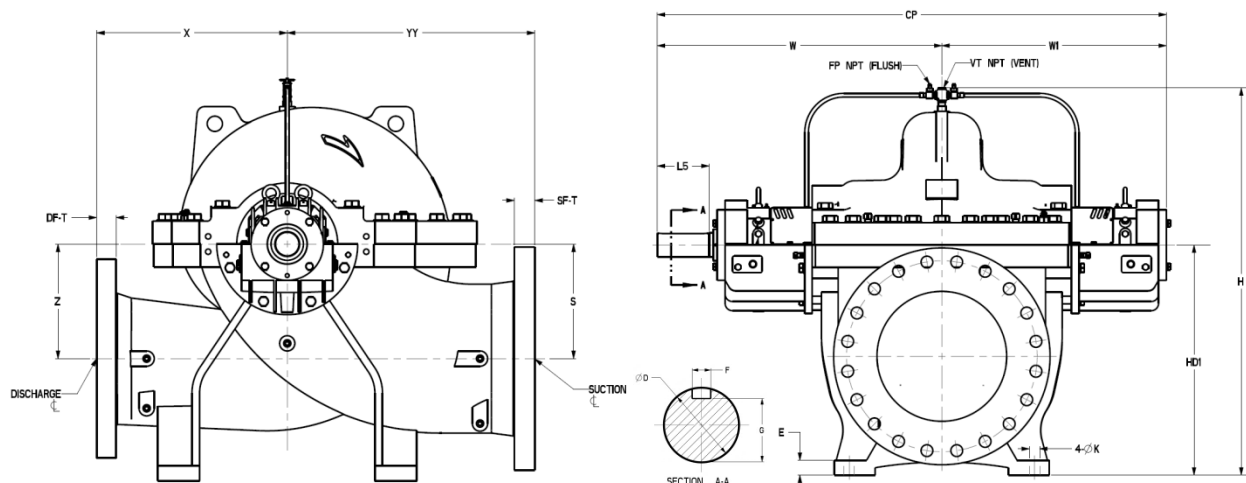
Model	14X14X12		Model	14X16X15		Model	14X16X27.5	
	14X14X11			14X16X14.5			14X16X26	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	25.59	650	YY	27.56	700	YY	35.43	900
X	19.69	500	X	21.65	550	X	29.53	750
H	41.06	1043	H	46.46	1180	H	56.65	1439
HD1	24.41	620	HD1	27.56	700	HD1	33.07	840
Z	11.81	300	Z	13.78	350	Z	18.90	480
S	11.81	300	S	13.78	350	S	18.90	480
B	26.77	680	B	30.71	780	B	43.31	1100
B1	23.62	600	B1	27.56	700	B1	39.37	1000
B2	18.11	460	B2	20.47	520	B2	29.53	750
W1	23.23	590	W1	25.26	642	W1	29.98	762
W	27.87	708	W	31.22	793	W	38.70	983
CP	51.10	1298	CP	56.48	1435	CP	68.69	1745
L5	4.33	110	L5	5.51	140	L5	8.27	210
D	1.77	45	D	2.95	75	D	4.13	105
A	22.83	580	A	24.80	630	A	33.86	860
A1	19.69	500	A1	21.65	550	A1	29.53	750
A2	14.17	360	A2	15.35	390	A2	21.26	540
E	0.56	40	E	0.60	40	E	0.84	45
K	1.10	28	K	1.10	28	K	1.38	35
G	1.56	39.5	G	2.66	67.5	G	3.74	95
F	0.55	14	F	0.79	20	F	1.10	28
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	2051	930		2860	1300		5887	2670



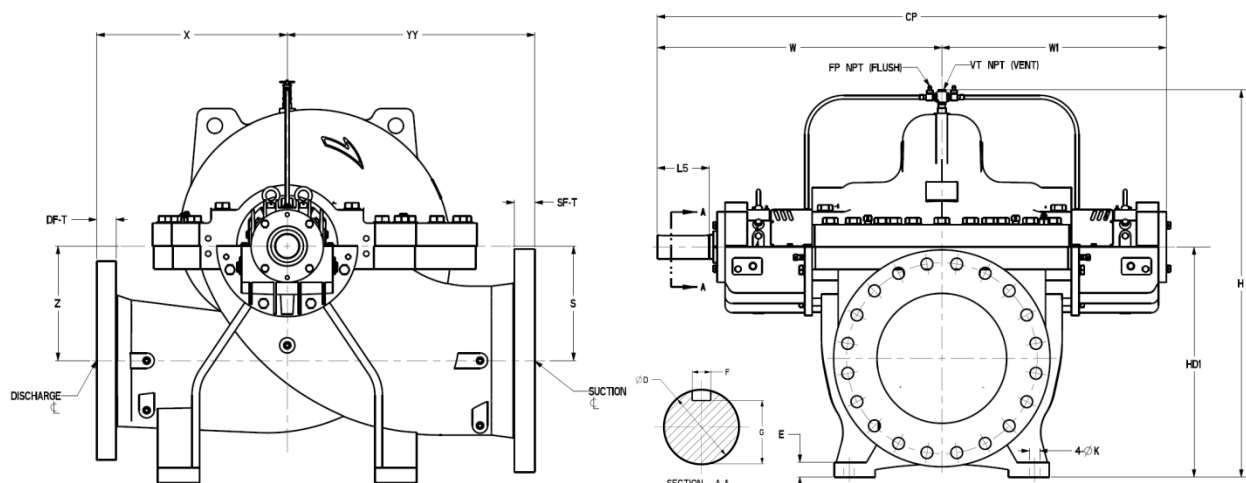
Model	14X16X30.5		Model	14X18X18		Model	14X18X21	
	14X16X29			14X18X17			14X18X20	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	35.43	900	YY	31.50	800	YY	27.56	700
X	29.53	750	X	25.59	650	X	25.59	650
H	55.16	1401	H	52.36	1330	H	50.00	1270
HD1	31.50	800	HD1	30.71	780	HD1	30.71	780
Z	17.72	450	Z	15.75	400	Z	15.75	400
S	17.72	450	S	15.75	400	S	15.75	400
B	43.70	1110	B	35.83	910	B	35.83	910
B1	39.37	1000	B1	31.50	800	B1	31.50	800
B2	29.53	750	B2	23.23	590	B2	23.23	590
W1	34.25	870	W1	28.58	726	W1	28.61	727
W	43.03	1093	W	35.75	908	W	35.75	908
CP	77.28	1963	CP	64.33	1634	CP	64.35	1635
L5	8.27	210	L5	6.69	170	L5	6.69	170
D	4.72	120	D	3.35	85	D	3.35	85
A	33.86	860	A	29.92	760	A	29.92	760
A1	29.53	750	A1	25.59	650	A1	25.59	650
A2	21.26	540	A2	18.90	480	A2	18.90	480
E	0.84	45	E	0.74	45	E	0.74	45
K	1.38	35	K	1.38	35	K	1.38	35
G	4.29	109	G	2.99	76	G	2.99	76
F	1.26	32	F	0.87	22	F	0.87	22
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	5623	2550		3278	1490		3660	1660



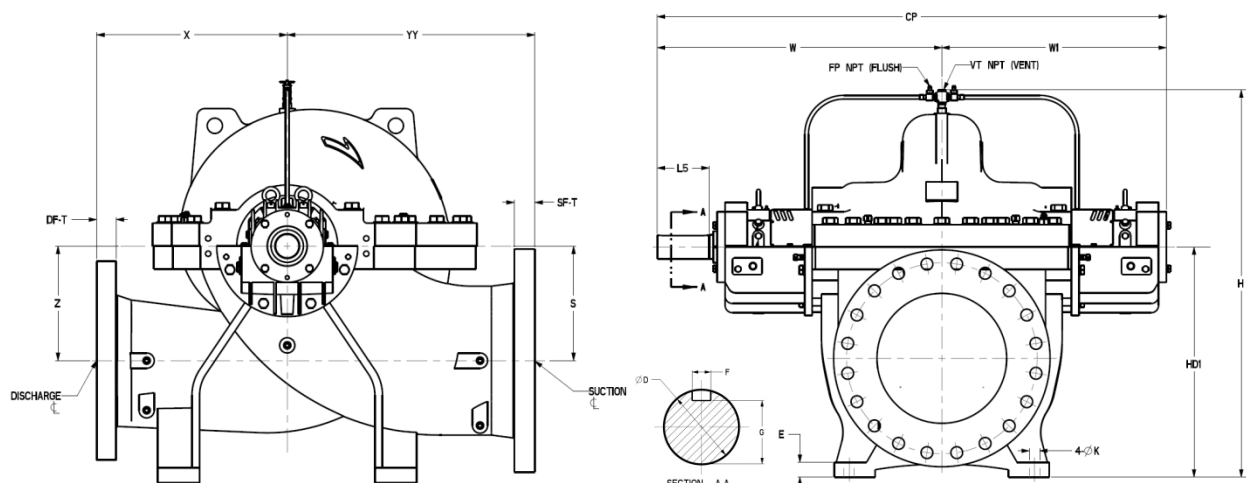
Model	14X20X26.5		Model	14X20X33		Model	16X16X13.5	
	14X20X25.5			14X20X31.5			16X16X13	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	31.50	800	YY	33.46	850	YY	29.53	750
X	27.56	700	X	29.53	750	X	23.62	600
H	54.13	1375	H	58.39	1483	H	45.47	1155
HD1	32.28	820	HD1	33.46	850	HD1	27.56	700
Z	16.54	420	Z	17.72	450	Z	13.78	350
S	16.54	420	S	17.72	450	S	13.78	350
B	35.83	910	B	35.83	910	B	30.71	780
B1	31.50	800	B1	31.50	800	B1	27.56	700
B2	23.23	590	B2	23.23	590	B2	20.47	520
W1	31.10	790	W1	32.35	822	W1	26.46	672
W	39.09	993	W	39.49	1003	W	31.22	793
CP	70.20	1783	CP	71.83	1825	CP	57.68	1465
L5	6.69	170	L5	6.69	170	L5	4.33	110
D	3.35	85	D	3.74	95	D	2.17	55
A	29.92	760	A	29.92	760	A	24.80	630
A1	25.59	650	A1	25.59	650	A1	21.65	550
A2	18.90	480	A2	18.90	480	A2	15.35	390
E	0.74	45	E	0.74	45	E	0.60	40
K	1.38	35	K	2.56	65	K	1.10	28
G	2.99	76	G	3.39	86	G	1.93	49
F	0.87	22	F	0.98	25	F	0.63	16
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	4100	1860		5402	2450		2922	1325



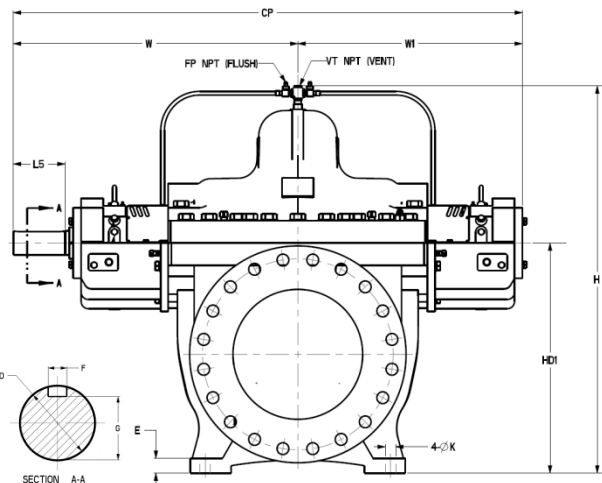
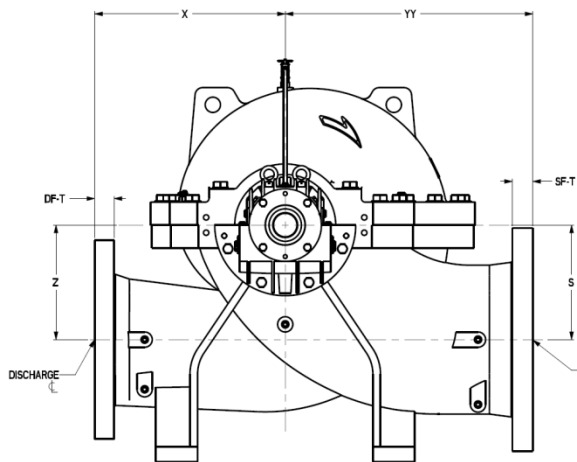
Model	16X20X20.5		Model	16X20X21		Model	16X20X23	
	16X20X19.5			16X20X20			16X20X22	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	31.50	800	YY	31.50	800	YY	31.50	800
X	27.56	700	X	25.59	650	X	27.56	700
H	58.41	1483.5	H	55.12	1400	H	55.66	1413.7
HD1	35.43	900	HD1	33.46	850	HD1	34.25	870
Z	18.90	480	Z	17.72	450	Z	17.72	450
S	18.90	480	S	17.72	450	S	17.72	450
B	35.83	910	B	35.83	910	B	35.83	910
B1	31.50	800	B1	31.50	800	B1	31.50	800
B2	23.23	590	B2	23.23	590	B2	23.23	590
W1	31.95	812	W1	27.17	690	W1	31.76	807
W	39.09	993	W	33.19	843	W	40.47	1028
CP	71.05	1805	CP	60.35	1533	CP	72.23	1835
L5	6.69	170	L5	5.51	140	L5	8.27	210
D	3.74	95	D	2.95	75	D	4.13	105
A	29.92	760	A	29.92	760	A	29.92	760
A1	25.59	650	A1	25.59	650	A1	25.59	650
A2	18.90	480	A2	18.90	480	A2	18.90	480
E	0.74	45	E	0.74	45	E	0.74	45
K	1.38	35	K	1.38	35	K	1.38	35
G	3.39	86	G	2.66	67.5	G	3.74	95
F	0.98	25	F	0.79	20	F	1.10	28
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	4807	2180		3970	1800		5148	2340



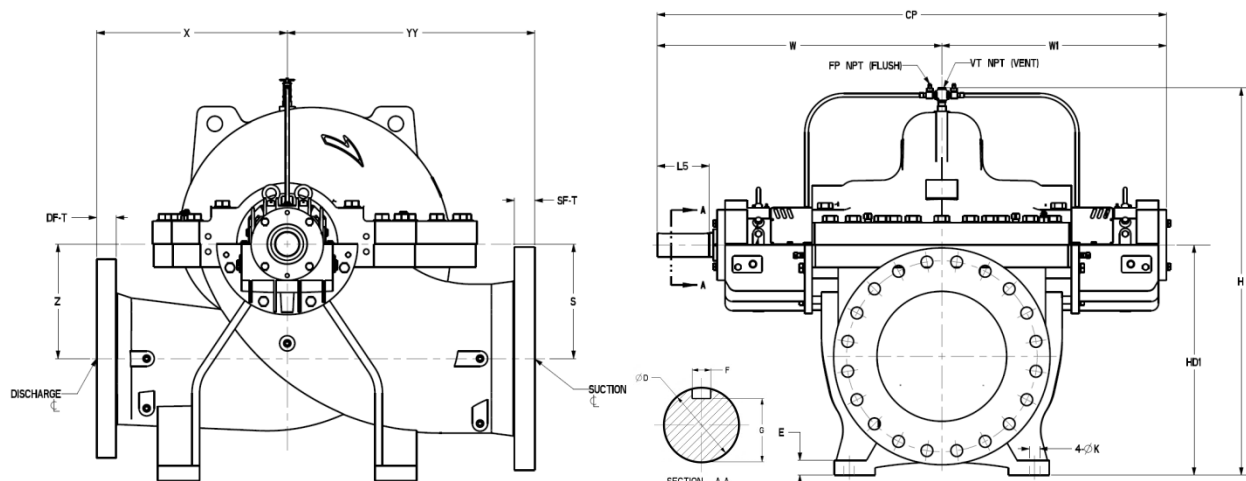
Model	16X24X31.5		Model	16X24X38		Model	18X20X15.5	
	16X24X29.5			16X24X34			18X20X14.5	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	35.43	900	YY	39.37	1000	YY	33.46	850
X	31.50	800	X	35.43	900	X	25.59	650
H	64.88	1648	H	69.69	1770	H	53.15	1350
HD1	39.37	1000	HD1	41.34	1050	HD1	32.28	820
Z	19.69	500	Z	21.65	550	Z	15.75	400
S	19.69	500	S	21.65	550	S	15.75	400
B	43.70	1110	B	48.03	1220	B	35.83	910
B1	39.37	1000	B1	43.31	1100	B1	31.50	800
B2	29.53	750	B2	32.28	820	B2	23.23	590
W1	34.51	877	W1	37.99	965	W1	28.21	717
W	43.23	1098	W	46.77	1188	W	34.17	868
CP	77.74	1975	CP	84.76	2153	CP	62.39	1585
L5	8.27	210	L5	8.27	210	L5	5.51	140
D	4.13	105	D	4.72	120	D	2.56	65
A	33.86	860	A	38.19	970	A	29.92	760
A1	29.53	750	A1	33.46	850	A1	25.59	650
A2	21.26	540	A2	24.02	610	A2	18.90	480
E	0.84	45	E	0.95	50	E	0.74	45
K	1.38	35	K	1.65	42	K	1.38	35
G	3.74	95	G	4.29	109	G	2.28	58
F	1.10	28	F	1.26	32	F	0.71	18
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	6836	3100		8158	3700		3814	1730



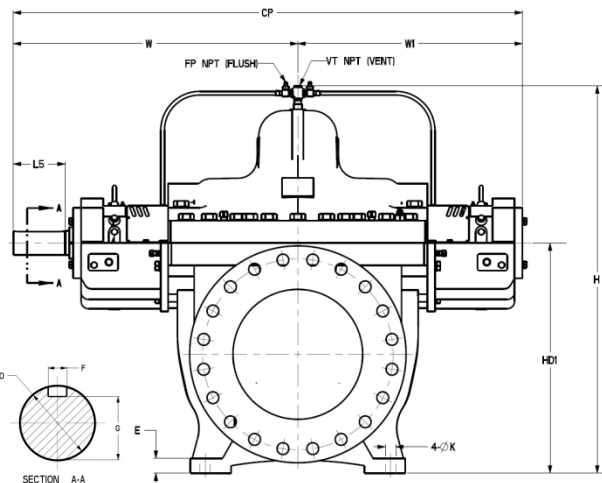
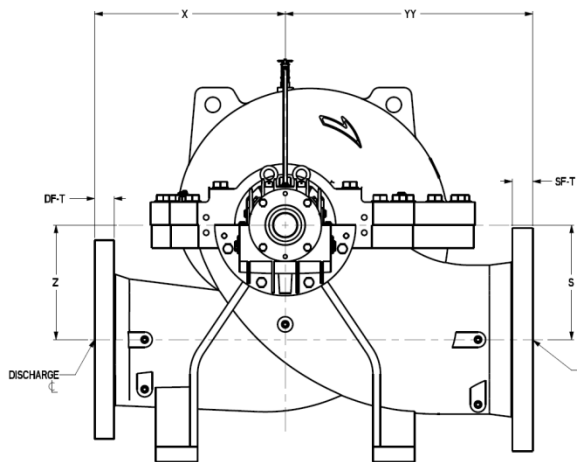
Model	20X24X18		Model	20X24X20.5		Model	20X24X24.5	
	20X24X17			20X24X19.5			20X24X23.5	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	39.37	1000	YY	35.43	900	YY	39.37	1000
X	29.53	750	X	31.50	800	X	29.53	750
H	61.02	1550	H	61.81	1570	H	63.78	1620
HD1	37.40	950	HD1	37.40	950	HD1	38.19	970
Z	18.90	480	Z	19.69	500	Z	20.47	520
S	18.90	480	S	19.69	500	S	20.47	520
B	43.70	1110	B	43.70	1110	B	43.70	1110
B1	39.37	1000	B1	39.37	1000	B1	39.37	1000
B2	29.53	750	B2	29.53	750	B2	29.53	750
W1	31.36	797	W1	29.53	750	W1	30.38	772
W	38.50	978	W	36.73	933	W	37.52	953
CP	69.87	1775	CP	66.26	1683	CP	67.90	1725
L5	6.69	170	L5	6.69	170	L5	6.69	170
D	3.35	85	D	3.35	85	D	3.74	95
A	33.86	860	A	33.86	860	A	33.86	860
A1	29.53	750	A1	29.53	750	A1	29.53	750
A2	21.26	540	A2	21.26	540	A2	21.26	540
E	0.84	45	E	0.84	45	E	0.84	45
K	1.38	35	K	1.38	35	K	1.38	35
G	2.99	76	G	2.99	76	G	3.39	86
F	0.87	22	F	0.87	22	F	0.98	25
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	5412	2460		5160	2340		6758	3065



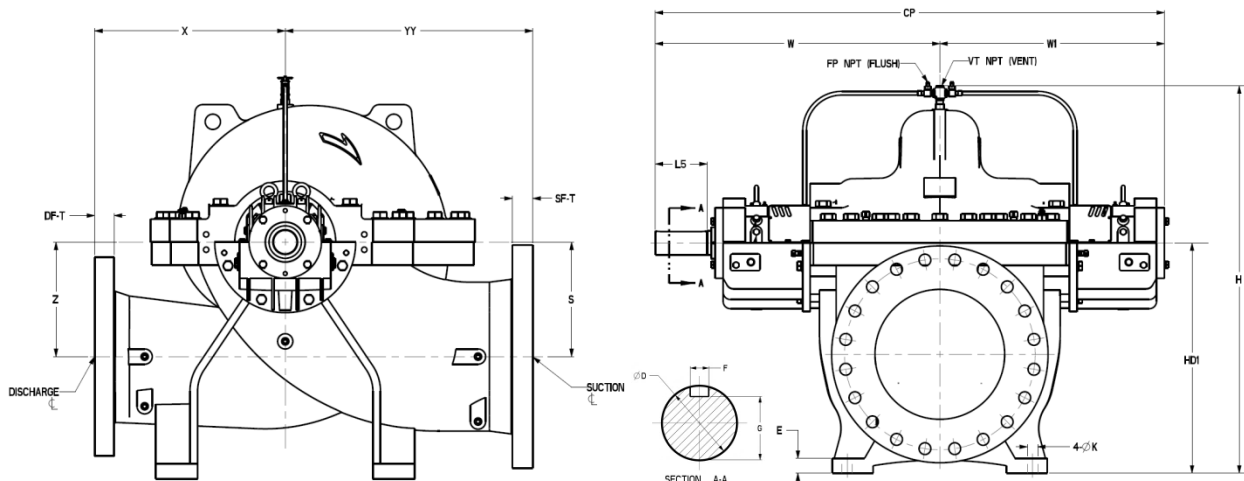
Model	20X28X28		Model	20X28X36		Model	24X28X22.5	
	20X28X27			20X28X34			24X28X21	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	41.34	1050	YY	41.34	1050	YY	41.34	1050
X	33.46	850	X	37.40	950	X	35.43	900
H	72.44	1840	H	73.46	1866	H	68.70	1745
HD1	45.28	1150	HD1	45.28	1150	HD1	41.34	1050
Z	23.62	600	Z	23.62	600	Z	21.65	550
S	23.62	600	S	23.62	600	S	21.65	550
B	48.03	1220	B	48.03	1220	B	48.03	1220
B1	43.31	1100	B1	43.31	1100	B1	43.31	1100
B2	32.28	820	B2	32.28	820	B2	32.28	820
W1	35.04	890	W1	40.31	1024	W1	34.45	875
W	43.82	1113	W	50.71	1288	W	43.23	1098
CP	78.86	2003	CP	91.02	2312	CP	77.68	1973
L5	8.27	210	L5	9.84	250	L5	8.27	210
D	4.72	120	D	5.51	140	D	4.13	105
A	38.19	970	A	38.19	970	A	38.19	970
A1	33.46	850	A1	33.46	850	A1	33.46	850
A2	24.02	610	A2	24.02	610	A2	24.02	610
E	0.95	50	E	0.95	50	E	0.95	50
K	1.65	42	K	1.65	42	K	1.65	42
G	4.29	109	G	5.04	128	G	3.74	95
F	1.26	32	F	1.42	36	F	1.10	28
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	8820	4000		9856	4470		6835	3100



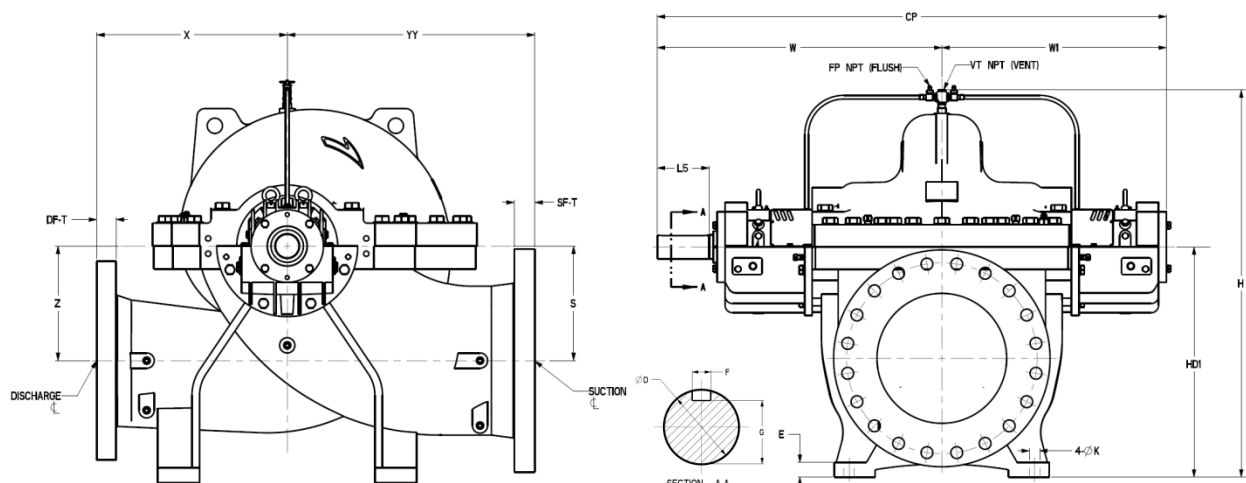
Model	24X28X24		Model	24X32X31.5		Model	24X32X39	
	24X28X23			24X32X30			24X32X37	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	41.34	1050	YY	47.24	1200	YY	47.24	1200
X	35.43	900	X	39.37	1000	X	45.28	1150
H	65.55	1665	H	81.89	2080	H	79.37	2016
HD1	40.55	1030	HD1	51.18	1300	HD1	49.21	1250
Z	20.87	530	Z	27.56	700	Z	25.59	650
S	20.87	530	S	27.56	700	S	25.59	650
B	48.03	1220	B	52.76	1340	B	62.99	1600
B1	43.31	1100	B1	47.24	1200	B1	51.18	1300
B2	32.28	820	B2	33.86	860	B2	39.37	1000
W1	33.13	842	W1	39.37	1000	W1	47.01	1194
W	40.28	1023	W	49.72	1263	W	54.84	1393
CP	73.41	1865	CP	89.09	2263	CP	101.85	2587
L5	6.69	170	L5	9.84	250	L5	9.84	250
D	3.74	95	D	5.51	140	D	5.91	150
A	38.19	970	A	44.88	1140	A	53.15	1350
A1	33.46	850	A1	39.37	1000	A1	43.31	1100
A2	24.02	610	A2	27.56	700	A2	33.46	850
E	0.95	50	E	1.09	50	E	1.32	70
K	1.65	42	K	1.65	42	K	1.65	42
G	3.39	86	G	5.04	128	G	5.43	138
F	0.98	25	F	1.42	36	F	1.42	36
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	7497	3400		14443	6550		12899	5850



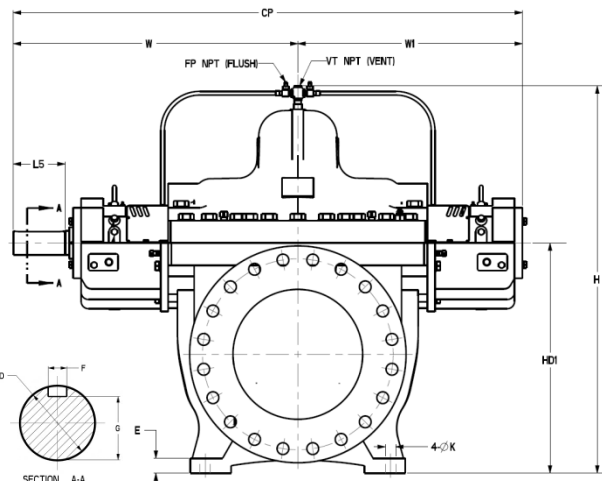
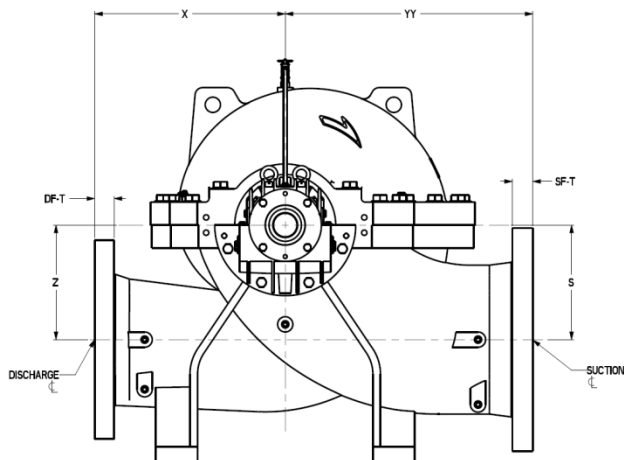
Model	24X32X43.5		Model	28X28X21		Model	28X32X26	
	24X32X41.5			28X28X19.5			28X32X25	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	51.18	1300	YY	43.31	1100	YY	47.24	1200
X	49.21	1250	X	35.43	900	X	39.37	1000
H	84.49	2146	H	75.39	1915	H	77.36	1965
HD1	51.18	1300	HD1	43.70	1110	HD1	47.24	1200
Z	27.56	700	Z	24.02	610	Z	25.59	650
S	27.56	700	S	24.02	610	S	25.59	650
B	62.99	1600	B	48.03	1220	B	52.76	1340
B1	51.18	1300	B1	43.31	1100	B1	47.24	1200
B2	39.37	1000	B2	32.28	820	B2	33.86	860
W1	48.98	1244	W1	35.83	910	W1	37.99	965
W	56.81	1443	W	43.03	1093	W	46.77	1188
CP	105.79	2687	CP	78.86	2003	CP	84.76	2153
L5	9.84	250	L5	6.69	170	L5	8.27	210
D	5.91	150	D	3.35	85	D	4.72	120
A	53.15	1350	A	38.19	970	A	44.88	1140
A1	43.31	1100	A1	33.46	850	A1	39.37	1000
A2	33.46	850	A2	24.02	610	A2	27.56	700
E	1.32	70	E	0.95	50	E	1.09	50
K	1.65	42	K	1.65	42	K	1.65	42
G	5.43	138	G	2.99	76	G	4.29	109
F	1.42	36	F	0.87	22	F	1.26	32
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	16979	7700		11594	5270		10364	4700



Model	28X32X23.5		Model	28X32X30.5		Model	28X32X34	
	28X32X23			28X32X28.5			28X32X32.5	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	45.28	1150	YY	51.18	1300	YY	51.18	1300
X	37.40	950	X	43.31	1100	X	41.34	1050
H	72.64	1845	H	82.48	2095	H	84.45	2145
HD1	45.28	1150	HD1	49.21	1250	HD1	51.18	1300
Z	23.62	600	Z	27.56	700	Z	29.53	750
S	23.62	600	S	27.56	700	S	29.53	750
B	52.76	1340	B	52.76	1340	B	52.76	1340
B1	47.24	1200	B1	47.24	1200	B1	47.24	1200
B2	33.31	846	B2	33.86	860	B2	33.86	860
W1	37.99	965	W1	40.35	1025	W1	41.34	1050
W	46.77	1188	W	49.13	1248	W	51.69	1313
CP	84.76	2153	CP	89.49	2273	CP	93.03	2363
L5	8.27	210	L5	8.27	210	L5	9.84	250
D	4.72	120	D	4.72	120	D	5.51	140
A	44.88	1140	A	44.88	1140	A	44.88	1140
A1	39.37	1000	A1	39.37	1000	A1	39.37	1000
A2	27.56	700	A2	27.56	700	A2	27.56	700
E	1.09	50	E	1.09	50	E	1.09	50
K	1.65	42	K	1.65	42	K	1.65	42
G	4.29	109	G	4.29	109	G	5.04	128
F	1.26	32	F	1.26	32	F	1.42	36
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	11576	5250		13120	5950		16979	7700



Model	28X36X39		Model	32X32X23	
	28X36X37			32X32X22	
Dims.	Value (in.)	Value (mm)	Dims.	Value (in.)	Value (mm)
YY	59.06	1500	YY	47.24	1200
X	47.24	1200	X	39.37	1000
H	95.31	2421	H	83.27	2115
HD1	59.06	1500	HD1	48.43	1230
Z	33.46	850	Z	26.77	680
S	33.46	850	S	26.77	680
B	62.99	1600	B	52.76	1340
B1	51.18	1300	B1	47.24	1200
B2	39.37	1000	B2	33.86	860
W1	46.54	1182	W1	39.76	1010
W	56.02	1423	W	48.54	1233
CP	102.56	2605	CP	88.31	2243
L5	11.81	300	L5	8.27	210
D	6.30	160	D	4.13	105
A	53.15	1350	A	44.88	1140
A1	43.31	1100	A1	39.37	1000
A2	33.46	850	A2	27.56	700
E	1.32	70	E	1.09	50
K	1.65	42	K	1.65	42
G	5.79	147	G	3.74	95
F	1.57	40	F	1.10	28
Weight	(lb.)	(kg)	Weight	(lb.)	(kg)
	23605	10720		15202	6910



Suction Flange Dimensions (125# ANSI & AWWA Class D)

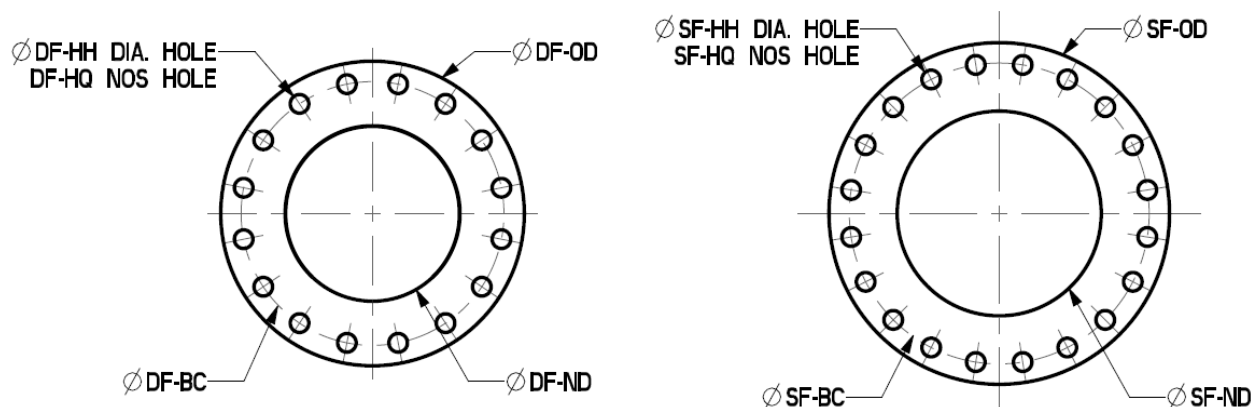
SF-ND ¹	SF-BC	SF-OD	SF-HQ	SF-HH
inch [mm]	inch [mm]	inch [mm]	No. Holes	inch [mm]
5 [125]	8.5 [216]	10 [254]	8	0.875 [22]
6 [150]	9.5 [241]	11 [279]	8	0.875 [22]
8 [200]	11.75 [298]	13.5 [343]	8	0.875 [22]
10 [250]	14.25 [362]	16 [406]	12	1 [25]
12 [300]	17 [432]	19 [483]	12	1 [25]
14 [350]	18.75 [476]	21 [533]	12	1.125 [29]
16 [400]	21.25 [540]	23.5 [597]	16	1 [25]
18 [450]	22.75 [578]	25 [635]	16	1.25 [32]
20 [500]	25 [635]	27.5 [699]	20	1.25 [32]
24 [600]	29.5 [749]	32 [813]	20	1.375 [35]
28 [700]	34 [864]	36.5 [927]	28	1.375 [35]
32 [800]	38.5 [978]	41.75 [1060]	24	1.625 [41]
36 [900]	42.75 [1085]	46 [1168]	32	1.625 [41]

¹Dimensions follow AWWA Class D (175 psi) for nominal diameters 28" and above.

Discharge Flange Dimensions (125# ANSI & AWWA Class D)

DF-ND ¹	DF-BC	DF-OD	DF-HQ	DF-HH
inch [mm]	inch [mm]	inch [mm]	No. Holes	inch [mm]
3 [80]	6 [152]	7.5 [191]	4	0.75 [19]
4 [100]	7.5 [191]	9 [229]	8	0.75 [19]
5 [125]	8.5 [216]	10 [254]	8	0.875 [22]
6 [150]	9.5 [241]	11 [279]	8	0.875 [22]
8 [200]	11.75 [298]	13.5 [343]	8	0.875 [22]
10 [250]	14.25 [362]	16 [406]	12	1 [25]
12 [300]	17 [432]	19 [483]	12	1 [25]
14 [350]	18.75 [476]	21 [533]	12	1.125 [29]
16 [400]	29.5 [749]	32 [813]	20	1.375 [35]
18 [450]	22.75 [578]	25 [635]	16	1.25 [32]
20 [500]	25 [635]	27.5 [699]	20	1.25 [32]
24 [600]	29.5 [749]	32 [813]	20	1.375 [35]
28 [700]	34 [864]	36.5 [927]	28	1.375 [35]

¹Dimensions follow AWWA Class D (175 psi) for nominal diameters 28" and above.



Suction Flange Dimensions (250# ANSI & AWWA Class F)

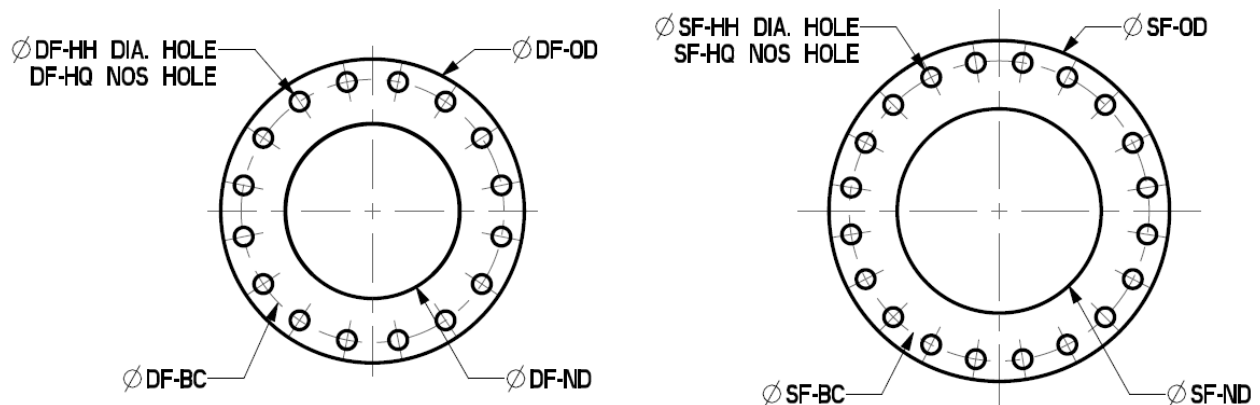
SF-ND ¹	SF-BC	SF-OD	SF-HQ	SF-HH
inch [mm]	inch [mm]	inch [mm]	No. Holes	inch [mm]
5 [125]	9.25 [235]	11 [279]	8	0.875 [22]
6 [150]	10.625 [270]	12.5 [318]	12	0.875 [22]
8 [200]	13 [330]	15 [381]	12	1 [25]
10 [250]	15.25 [387]	17.5 [445]	16	1.125 [29]
12 [300]	17.75 [451]	20.5 [521]	16	1.25 [32]
14 [350]	20.25 [514]	23 [584]	20	1.25 [32]
16 [400]	22.5 [572]	25.5 [648]	20	1.375 [35]
18 [450]	24.75 [629]	28 [711]	24	1.375 [35]
20 [500]	27 [686]	30.5 [775]	24	1.375 [35]
24 [600]	32 [813]	36 [914]	24	1.625 [41]
28 [700]	37 [940]	40.75 [1035]	28	1.875 [48]
32 [800]	41.5 [1054]	45.25 [1149]	28	1.875 [48]
36 [900]	46 [1168]	50 [1270]	32	2 [51]

¹Dimensions follow AWWA Class F (300 psi) for nominal diameters 28" and above.

Discharge Flange Dimensions (250# ANSI & AWWA Class F)

DF-ND ¹	DF-BC	DF-OD	DF-HQ	DF-HH
inch [mm]	inch [mm]	inch [mm]	No. Holes	inch [mm]
3 [80]	6.625 [168]	8.25 [210]	8	0.875 [22]
4 [100]	7.875 [200]	10 [254]	8	0.875 [22]
5 [125]	9.25 [235]	11 [279]	8	0.875 [22]
6 [150]	10.625 [270]	12.5 [318]	12	0.875 [22]
8 [200]	13 [330]	15 [381]	12	1 [25]
10 [250]	15.25 [387]	17.5 [445]	16	1.125 [29]
12 [300]	17.75 [451]	20.5 [521]	16	1.25 [32]
14 [350]	20.25 [514]	23 [584]	20	1.25 [32]
16 [400]	22.5 [572]	25.5 [648]	20	1.375 [35]
18 [450]	24.75 [629]	28 [711]	24	1.375 [35]
20 [500]	27 [686]	30.5 [775]	24	1.375 [35]
24 [600]	32 [813]	36 [914]	24	1.625 [41]
28 [700]	37 [940]	40.75 [1035]	28	1.875 [48]

¹Dimensions follow AWWA Class F (300 psi) for nominal diameters 28" and above.

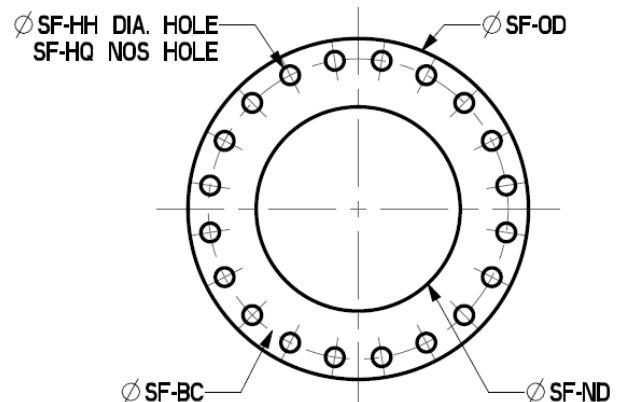
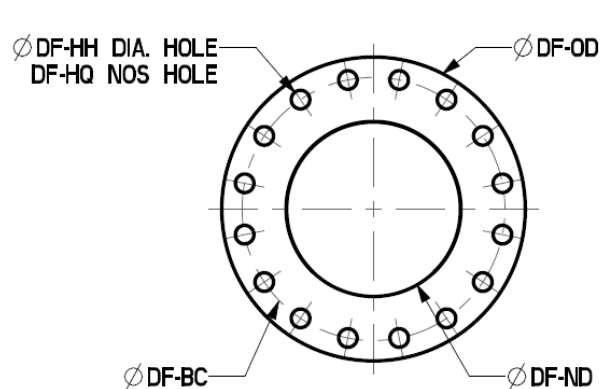


Suction Flange Dimensions (DIN/PN16)

SF-ND	SF-BC	SF-OD	SF-HQ	SF-HH
inch [mm]	mm	mm	No. Holes	mm
5 [125]	210	250	8	18
6 [150]	240	285	8	22
8 [200]	295	340	12	22
10 [250]	355	405	12	26
12 [300]	410	460	12	26
14 [350]	470	520	16	26
16 [400]	525	580	16	30
18 [450]	585	640	20	30
20 [500]	650	715	20	33
24 [600]	770	840	20	36
28 [700]	840	910	24	36
32 [800]	950	1025	24	39
36 [900]	1050	1125	28	39

Discharge Flange Dimensions (DIN/PN16)

DF-ND	DF-BC	DF-OD	DF-HQ	DF-HH
inch [mm]	mm	mm	No. Holes	mm
3 [80]	160	200	8	18
4 [100]	180	220	8	18
5 [125]	210	250	8	18
6 [150]	240	285	8	22
8 [200]	295	340	12	22
10 [250]	355	405	12	26
12 [300]	410	460	12	26
14 [350]	470	520	16	26
16 [400]	525	580	16	30
18 [450]	585	640	20	30
20 [500]	650	715	20	33
24 [600]	770	840	20	36
28 [700]	840	910	24	36
32 [800]	950	1025	24	39

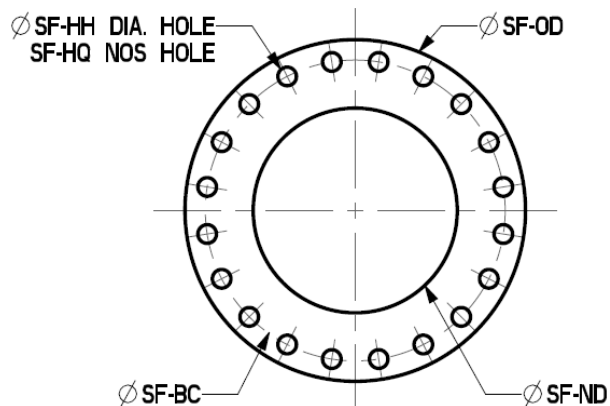
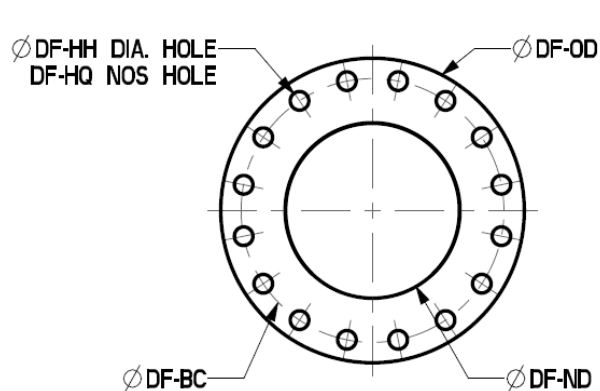


Suction Flange Dimensions (DIN/PN25)

SF-ND	SF-BC	SF-OD	SF-HQ	SF-HH
inch [mm]	mm	mm	No. Holes	mm
5 [125]	Use DIN/PN40 Dimensions			
6 [150]				
8 [200]	310	360	12	26
10 [250]	370	425	12	30
12 [300]	430	485	16	30
14 [350]	490	555	16	33
16 [400]	550	620	16	36
18 [450]	600	670	20	36
20 [500]	660	730	20	36
24 [600]	770	845	20	39
28 [700]	875	960	24	42
32 [800]	990	1085	24	48
36 [900]	1090	1158	28	48

Discharge Flange Dimensions (DIN/PN25)

DF-ND	DF-BC	DF-OD	DF-HQ	DF-HH
inch [mm]	mm	mm	No. Holes	mm
3 [80]	Use DIN/PN40 Dimensions			
4 [100]				
5 [125]				
6 [150]				
8 [200]	310	360	12	26
10 [250]	370	425	12	30
12 [300]	430	485	16	30
14 [350]	490	555	16	33
16 [400]	550	620	16	36
18 [450]	600	670	20	36
20 [500]	660	730	20	36
24 [600]	770	845	20	39
28 [700]	875	960	24	42
32 [800]	990	1085	24	48

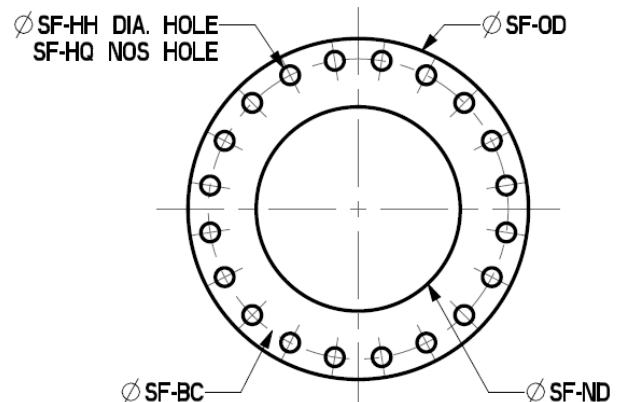
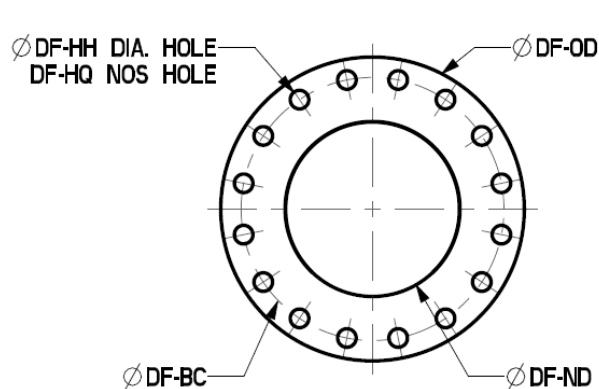


Suction Flange Dimensions (DIN/PN40)

SF-ND	SF-BC	SF-OD	SF-HQ	SF-HH
inch [mm]	mm	mm	No. Holes	mm
5 [125]	220	270	8	26
6 [150]	250	300	8	26
8 [200]	320	375	12	30
10 [250]	385	450	12	33
12 [300]	450	515	16	33
14 [350]	510	580	16	36
16 [400]	585	660	16	39
18 [450]	610	685	20	39
20 [500]	670	755	20	42
24 [600]	795	890	20	48
28 [700]				
32 [800]	Not Available			
36 [900]				

Discharge Flange Dimensions (DIN/PN40)

DF-ND	DF-BC	DF-OD	DF-HQ	DF-HH
inch [mm]	mm	mm	No. Holes	mm
3 [80]	160	200	8	18
4 [100]	190	235	8	22
5 [125]	220	270	8	26
6 [150]	250	300	8	26
8 [200]	320	375	12	30
10 [250]	385	450	12	33
12 [300]	450	515	16	33
14 [350]	510	580	16	36
16 [400]	585	660	16	39
18 [450]	610	685	20	39
20 [500]	670	755	20	42
24 [600]	795	890	20	48
28 [700]				
32 [800]	Not Available			



Flange Thickness Dimensions

Model		Suction Flange (SF-T) in. [mm]	Discharge Flange (DF-T) in. [mm]
3X5X8.5	3X5X8	1.37 [34.9]	1.13 [28.6]
3X5X11	3X5X10.5	1.37 [34.9]	1.13 [28.6]
3X5X12.5	3X5X12	1.37 [34.9]	1.13 [28.6]
3X5X13.5	3X5X13	1.37 [34.9]	1.13 [28.6]
4X5X6.5	4X5X6	1.37 [34.9]	1.25 [31.8]
4X6X10	4X6X9.5	1.44 [36.5]	1.25 [31.8]
4X6X13	4X6X12	1.44 [36.5]	1.25 [31.8]
4X6X14.5	4X6X13.5	1.44 [36.5]	1.25 [31.8]
4X6X16	4X6X15.5	1.44 [36.5]	1.25 [31.8]
5X6X7.5	5X6X7	1.44 [36.5]	1.37 [34.9]
5X6X9	5X6X8.5	1.44 [36.5]	1.37 [34.9]
5X8X9.5	5X8X9	1.61 [41]	1.37 [34.9]
5X8X12	5X8X11	1.63 [41.3]	1.37 [34.9]
5X8X14	5X8X13.5	1.63 [41.3]	1.37 [34.9]
5X8X15.5	5X8X14.5	1.63 [41.3]	1.37 [34.9]
5X8X19	5X8X18	1.61 [41]	1.37 [34.9]
6X8X6.5	6X8X6	1.63 [41.3]	1.44 [36.5]
6X8X12	6X8X11	1.63 [41.3]	1.44 [36.5]
6X8X14	6X8X13.5	1.63 [41.3]	1.44 [36.5]
6X8X18	6X8X17	1.63 [41.3]	1.44 [36.5]
6X8X22	6X8X21	1.61 [41]	1.44 [36.5]
6X10X11	6X10X10.5	1.89 [48]	1.46 [37]
8X8X8	8X8X7.5	1.63 [41.3]	1.63 [41.3]
8X10X10	8X10X9.5	1.87 [47.6]	1.63 [41.3]
8X10X13.5	8X10X13	1.89 [48]	1.61 [41]
8X10X17	8X10X16	1.89 [48]	1.61 [41]
8X10X21	8X10X20	1.87 [47.6]	1.63 [41.3]
8X10X26	8X10X25	1.89 [48]	1.61 [41]
10X10X8	10X10X7.5	1.89 [48]	1.89 [48]
10X12X15.5	10X12X14.5	2.01 [51]	1.89 [48]
10X12X19	10X12X18	2.01 [51]	1.89 [48]
10X12X24	10X12X23	2 [50.8]	1.87 [47.6]
10X12X30	10X12X28.5	2 [50.8]	1.87 [47.6]
12X12X9	12X12X8.5	2 [50.8]	2 [50.8]
12X12X10	12X12X9.5	2 [50.8]	2 [50.8]
12X14X13	12X14X12.5	2.13 [54]	2.01 [51]
12X16X18	12X16X17	2.25 [57.2]	2 [50.8]
12X16X22	12X16X21	2.24 [57]	2.01 [51]
12X16X28	12X16X27	2.25 [57.2]	2 [50.8]
14X14X12	14X14X11	2.13 [54]	2.13 [54]
14X16X15	14X16X14.5	2.24 [57]	2.13 [54]

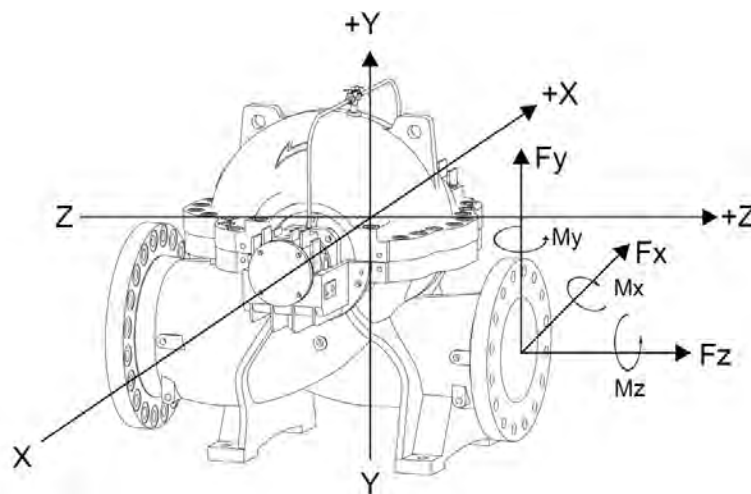
Flange Thickness Dimensions

Model	Suction Flange (SF-T) in. [mm]	Discharge Flange (DF-T) in. [mm]
14X16X27.5 14X16X26	2.25 [57.2]	2.13 [54]
14X16X30.5 14X16X29	2.25 [57.2]	2.13 [54]
14X18X18 14X18X17	2.36 [60]	2.13 [54]
14X18X21 14X18X20	2.36 [60]	2.13 [54]
14X20X26.5 14X20X25.5	1.69 [42.9]	1.42 [36]
14X20X33 14X20X31.5	2.5 [63.5]	2.13 [54]
16X16X13.5 16X16X13	2.25 [57.2]	2.25 [57.2]
16X20X20.5 16X20X19.5	2.5 [63.6]	2.25 [57.2]
16X20X21 16X20X20	1.69 [42.9]	1.5 [38]
16X20X23 16X20X22	2.5 [63.5]	2.25 [57.2]
16X24X31.5 16X24X29.5	2.75 [69.9]	2.25 [57.2]
16X24X38 16X24X34	2.75 [69.9]	2.25 [57.2]
18X20X15.5 18X20X14.5	2.52 [64]	2.36 [60]
20X24X18 20X24X17	2.75 [69.9]	2.5 [63.5]
20X24X20.5 20X24X19.5	1.89 [48]	1.69 [42.9]
20X24X24.5 20X24X23.5	1.89 [48]	1.69 [42.9]
20X28X28 20X28X27	3.13 [79.5]	2.5 [63.5]
20X28X36 20X28X34	3.13 [79.5]	2.5 [63.5]
24X28X22.5 24X28X21	2.13 [54]	1.89 [48]
24X28X24 24X28X23	2.13 [54]	1.89 [48]
24X32X31.5 24X32X30	3.25 [82.6]	2.75 [69.9]
24X32X39 24X32X37	3.25 [82.6]	2.75 [69.9]
24X32X43.5 24X32X41.5	3.25 [82.6]	2.75 [69.9]
28X28X21 28X28X19.5	2.13 [54]	2.13 [54]
28X32X26 28X32X25	2.28 [58]	2.13 [54]
28X32X23.5 28X32X23	2.28 [58]	2.13 [54]
28X32X30.5 28X32X28.5	2.28 [58]	2.13 [54]
28X32X34 28X32X32.5	2.28 [58]	2.13 [54]
28X36X39 28X36X37	1.56 [39.7]	1.37 [34.9]
32X32X23 32X32X22	2.28 [58]	2.28 [58]

Forces and Moments at Pump Flanges

Flange Loading Ratings

Dia. in. [mm]	Force lbf [N]				Moment lbf·ft [N·m]			
	F _x	F _y	F _z	ΣF	M _x	M _y	M _z	ΣM
2.5 [65]	166 [740]	189 [840]	153 [680]	297 [1320]	332 [450]	243 [330]	266 [360]	487 [660]
3 [80]	202 [900]	225 [1000]	184 [820]	355 [1580]	354 [480]	254 [345]	288 [390]	520 [705]
4 [100]	270 [1200]	301 [1340]	243 [1080]	472 [2100]	376 [510]	277 [375]	321 [435]	575 [780]
5 [125]	319 [1420]	355 [1580]	288 [1280]	558 [2480]	465 [630]	332 [450]	420 [570]	675 [915]
6 [150]	405 [1800]	450 [2000]	364 [1620]	706 [3140]	553 [750]	387 [525]	454 [615]	808 [1095]
8 [200]	540 [2400]	602 [2680]	486 [2160]	940 [4180]	719 [975]	509 [690]	586 [795]	1062 [1440]
10 [250]	670 [2980]	751 [3340]	607 [2700]	1174 [5220]	985 [1335]	697 [945]	808 [1095]	1449 [1965]
12 [300]	805 [3580]	899 [4000]	724 [3220]	1407 [6260]	1339 [1815]	951 [1290]	1095 [1485]	1969 [2670]
14 [350]	940 [4180]	1048 [4660]	845 [3760]	1641 [7300]	1715 [2325]	1217 [1650]	1405 [1905]	2522 [3420]
16 [400]	1075 [4780]	1196 [5320]	967 [4300]	1875 [8340]	2146 [2910]	1538 [2085]	1759 [2385]	3164 [4290]
18 [450]	1209 [5380]	1344 [5980]	1088 [4840]	2109 [9380]	2644 [3585]	1881 [2550]	2168 [2940]	3894 [5280]
20 [500]	1344 [5980]	1493 [6640]	1209 [5380]	2343 [10420]	3197 [4335]	2268 [3075]	2611 [3540]	4713 [6390]
22 [550]	1479 [6580]	1641 [7300]	1331 [5920]	2576 [11460]	3784 [5130]	2699 [3660]	3109 [4215]	5598 [7590]
24 [600]	1614 [7180]	1789 [7960]	1448 [6440]	2810 [12500]	4470 [6060]	3186 [4320]	3673 [4980]	6616 [8970]
28 [700]	1879 [8360]	2095 [9320]	1691 [7520]	3282 [14600]	5140 [6950]	3640 [4940]	4210 [5710]	7690 [10500]
32 [800]	2149 [9560]	2392 [10640]	1933 [8600]	3750 [16680]	5820 [7920]	4170 [5640]	4770 [6480]	8580 [11640]
36 [900]	2419 [10760]	2689 [11960]	2176 [9680]	4217 [18760]	6580 [8940]	4620 [6250]	5280 [7190]	9580 [13060]



Max Solid Sphere Data

No.	Model	Max Dia. inch [mm]	No.	Model	Max Dia. inch [mm]
1	3X5X8.5	0.35 [9]	41	6X8X22	0.73 [18.5]
2	3X5X8	0.33 [8.5]	42	6X8X21	0.69 [17.5]
3	3X5X11	0.37 [9.5]	43	6X10X11	0.63 [16]
4	3X5X10.5	0.34 [8.75]	44	6X10X10.5	0.6 [15.25]
5	3X5X12.5	0.37 [9.5]	45	8X8X8	0.68 [17.25]
6	3X5X12	0.35 [9]	46	8X8X7.5	0.63 [16]
7	3X5X13.5	0.46 [11.75]	47	8X10X10	0.79 [20]
8	3X5X13	0.44 [11.25]	48	8X10X9.5	0.75 [19]
9	4X5X6.5	0.33 [8.5]	49	8X10X13.5	0.85 [21.5]
10	4X5X6	0.31 [8]	50	8X10X13	0.81 [20.5]
11	4X6X10	0.41 [10.5]	51	8X10X17	0.85 [21.5]
12	4X6X9.5	0.39 [10]	52	8X10X16	0.81 [20.5]
13	4X6X13	0.41 [10.5]	53	8X10X21	0.83 [21]
14	4X6X12	0.39 [10]	54	8X10X20	0.79 [20]
15	4X6X14.5	0.40 [10.5]	55	8X10X26	0.83 [21]
16	4X6X13.5	0.40 [10.5]	56	8X10X25	0.79 [20]
17	4X6X16	0.55 [14]	57	10X10X8	0.79 [20]
18	4X6X15.5	0.53 [13.5]	58	10X10X7.5	0.75 [19]
19	5X6X7.5	0.45 [11.5]	59	10X12X15.5	0.96 [24.5]
20	5X6X7	0.40 [10.5]	60	10X12X14.5	0.92 [23.25]
21	5X6X9	0.51 [13]	61	10X12X19	0.94 [24]
22	5X6X8.5	0.48 [12.25]	62	10X12X18	0.91 [23]
23	5X8X9.5	0.62 [15.75]	63	10X12X24	0.94 [24]
24	5X8X9	0.56 [14.25]	64	10X12X23	0.91 [23]
25	5X8X12	0.63 [16]	65	10X12X30	1.34 [34]
26	5X8X11	0.59 [15]	66	10X12X28.5	1.30 [33]
27	5X8X14	0.70 [18]	67	12X12X9	1.26 [32]
28	5X8X13.5	0.67 [17]	68	12X12X8.5	1.2 [30.5]
29	5X8X15.5	0.62 [15.75]	69	12X12X10	0.96 [24.5]
30	5X8X14.5	0.59 [15]	70	12X12X9.5	0.91 [23]
31	5X8X19	0.63 [16]	71	12X14X13	1.08 [27.5]
32	5X8X18	0.61 [15.5]	72	12X14X12.5	1.03 [26.25]
33	6X8X6.5	0.47 [12]	73	12X16X18	1.08 [27.5]
34	6X8X6	0.44 [11.25]	74	12X16X17	1.02 [26]
35	6X8X12	0.74 [18.75]	75	12X16X22	1.1 [28]
36	6X8X11	0.71 [18]	76	12X16X21	1.06 [27]
37	6X8X14	0.73 [18.5]	77	12X16X28	1.04 [26.5]
38	6X8X13.5	0.7 [17.75]	78	12X16X27	0.98 [25]
39	6X8X18	0.71 [18]	79	14X14X12	1.08 [27.5]
40	6X8X17	0.67 [17]	80	14X14X11	1.03 [26.25]

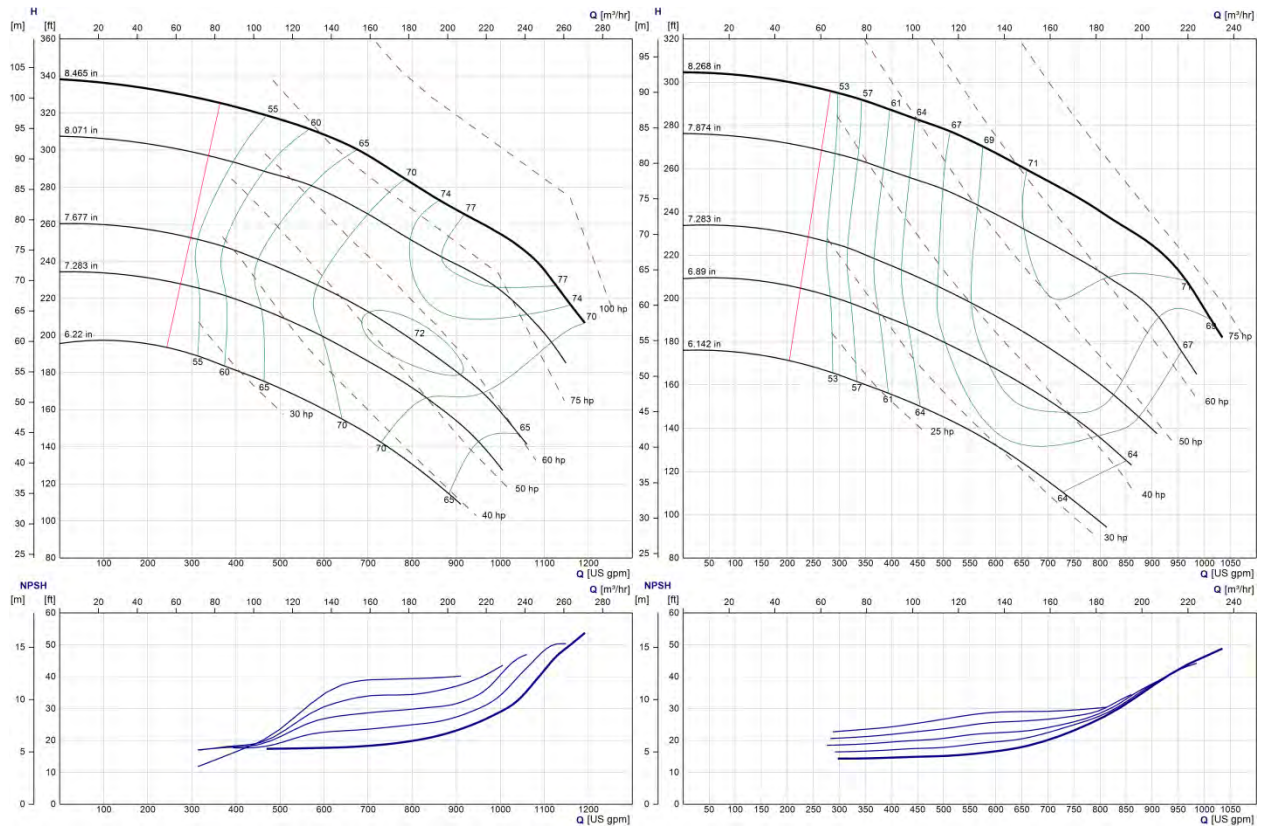
Max Solid Sphere Data

No.	Model	Max Dia. inch [mm]	No.	Model	Max Dia. inch [mm]
81	14X16X15	1.22 [31]	113	20X24X24.5	*
82	14X16X14.5	1.16 [29.5]	114	20X24X23.5	*
83	14X16X27.5	1.17 [29.7]	115	20X28X28	*
84	14X16X26	1.10 [28]	116	20X28X27	*
85	14X16X30.5	*	117	20X28X36	*
86	14X16X29	*	118	20X28X34	*
87	14X18X18	1.42 [36]	119	24X28X22.5	*
88	14X18X17	1.36 [34.5]	120	24X28X21	*
89	14X18X21	1.28 [32.5]	121	24X28X24	*
90	14X18X20	1.22 [31]	122	24X28X23	*
91	14X20X26.5	1.1 [28]	123	24X32X31.5	*
92	14X20X25.5	1.05 [26.75]	124	24X32X30	*
93	14X20X33	*	125	24X32X39	*
94	14X20X31.5	*	126	24X32X37	*
95	16X16X13.5	1.28 [32.5]	127	24X32X43.5	*
96	16X16X13	1.22 [31]	128	24X32X41.5	*
97	16X20X20.5	1.34 [34]	129	28X28X21	*
98	16X20X19.5	1.28 [32.5]	130	28X28X19.5	*
99	16X20X21	*	131	28X32X23.5	*
100	16X20X20	*	132	28X32X23	*
101	16X20X23	1.42 [36]	133	28X32X26	*
102	16X20X22	1.35 [34.25]	134	28X32X25	*
103	16X24X31.5	*	135	28X32X30.5	*
104	16X24X29.5	*	136	28X32X28.5	*
105	16X24X38	*	137	28X32X34	*
106	16X24X34	*	138	28X32X32.5	*
107	18X20X15.5	1.44 [36.5]	139	28X36X39	*
108	18X20X14.5	1.38 [35]	140	28X36X37	*
109	20X24X18	1.69 [43]	141	32X32X23	*
110	20X24X17	1.61 [41]	142	32X32X22	*
111	20X24X20.5	*			
112	20X24X19.5	*			

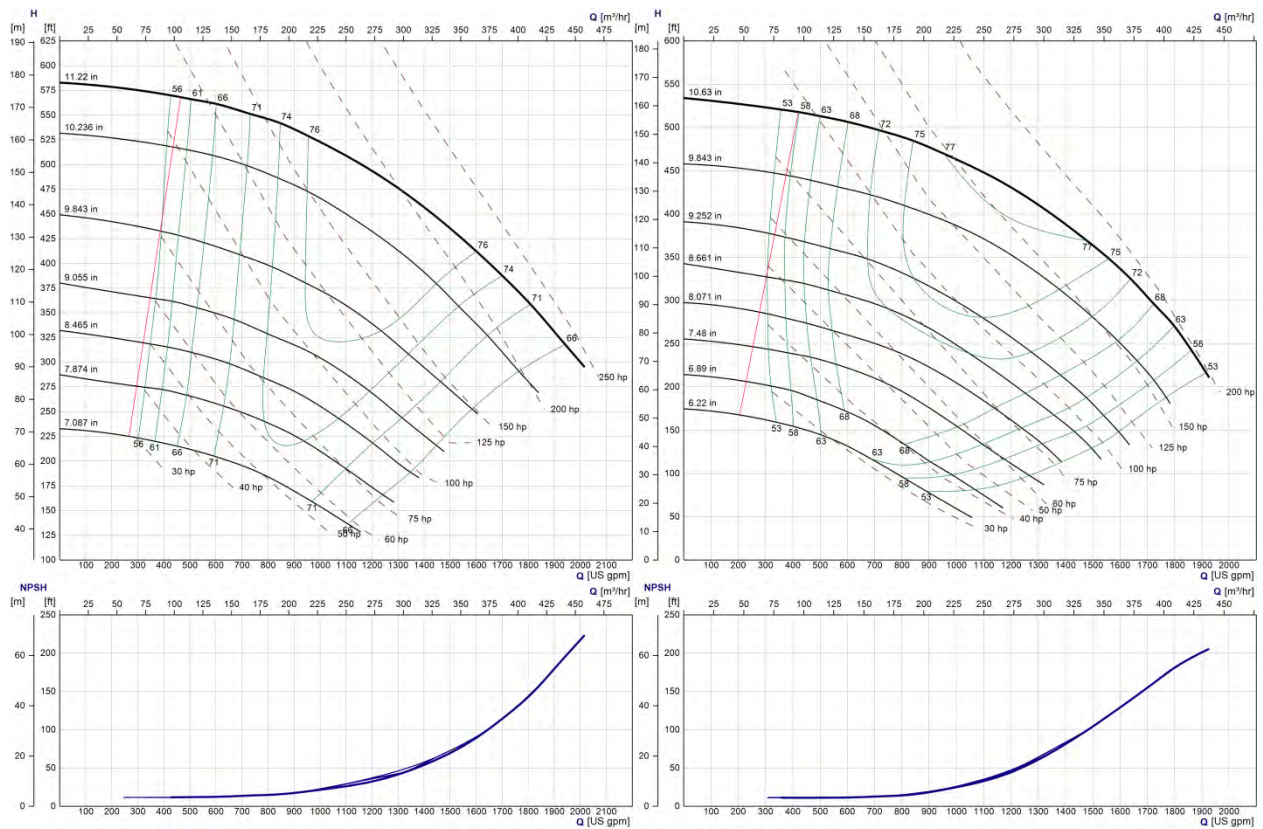
*Consult factory for information

e-XC Pumps
Individual Performance Curves (60Hz)
2-Pole (3560 RPM)

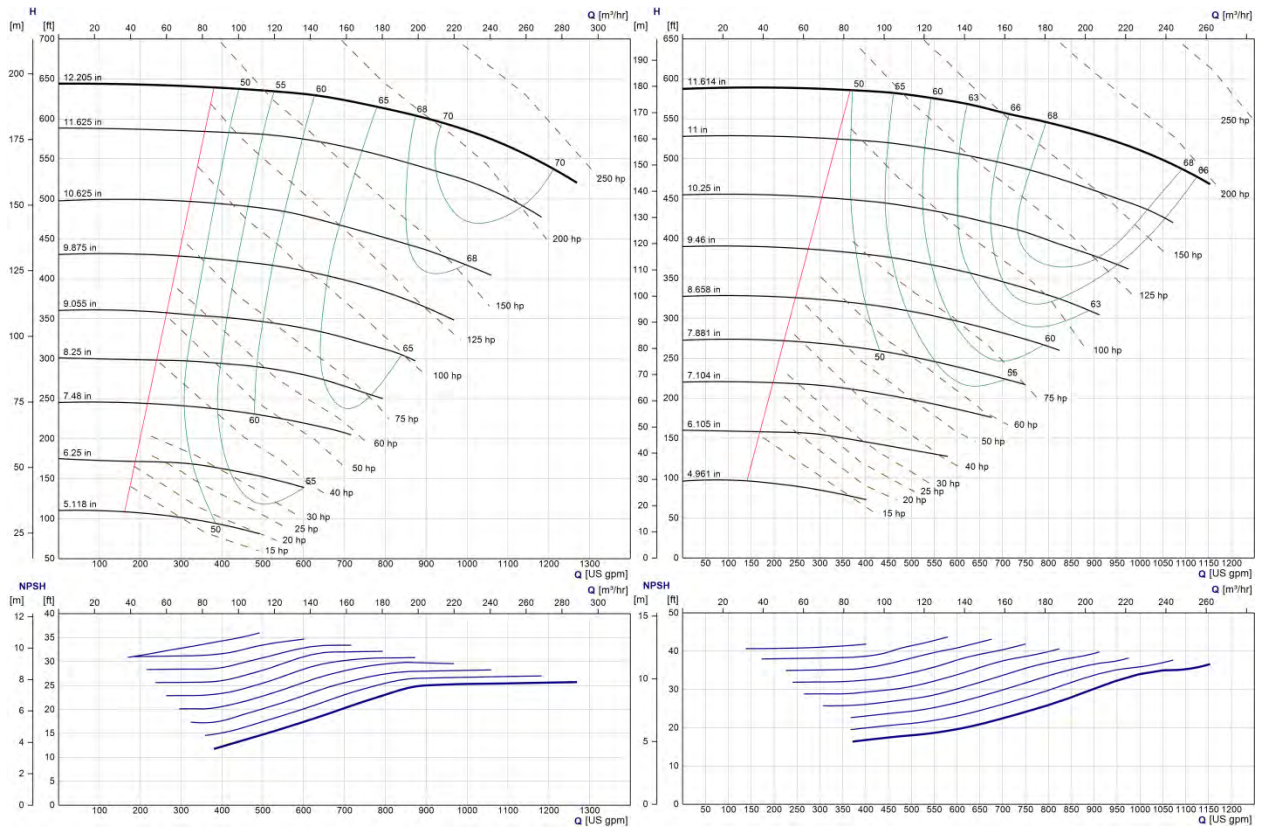
3x5x8.5 & 3x5x8 (3560 RPM)



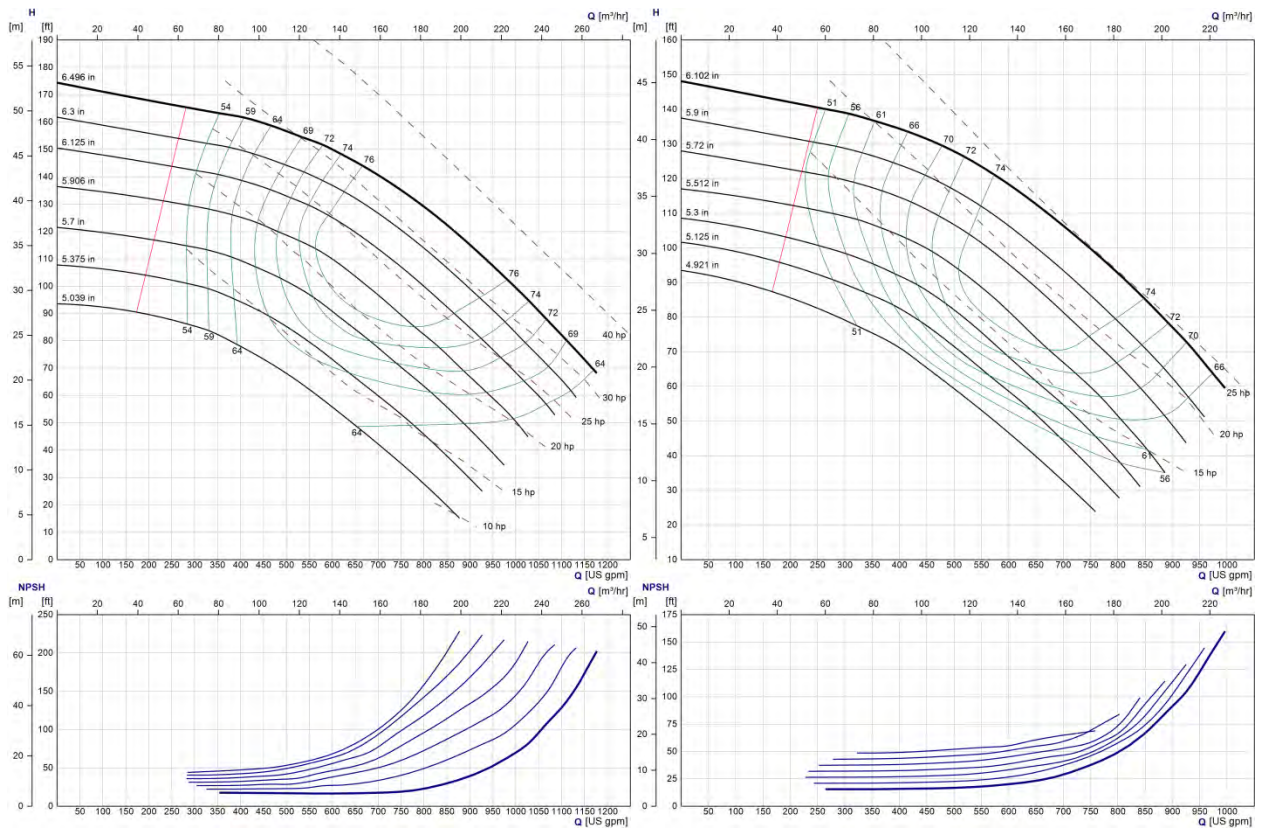
3x5x11 & 3x5x10.5 (3560 RPM)



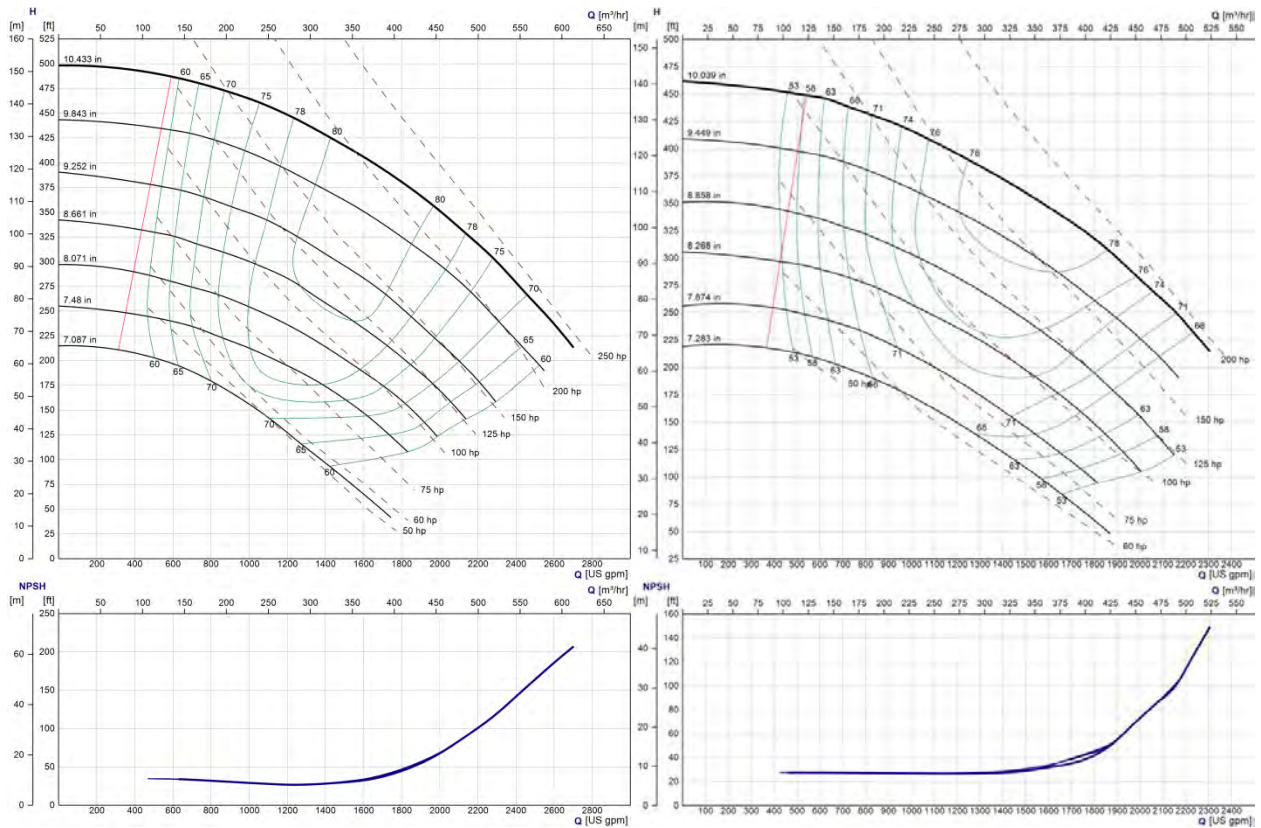
3x5x12.5 & 3x5x12 (3560 RPM)



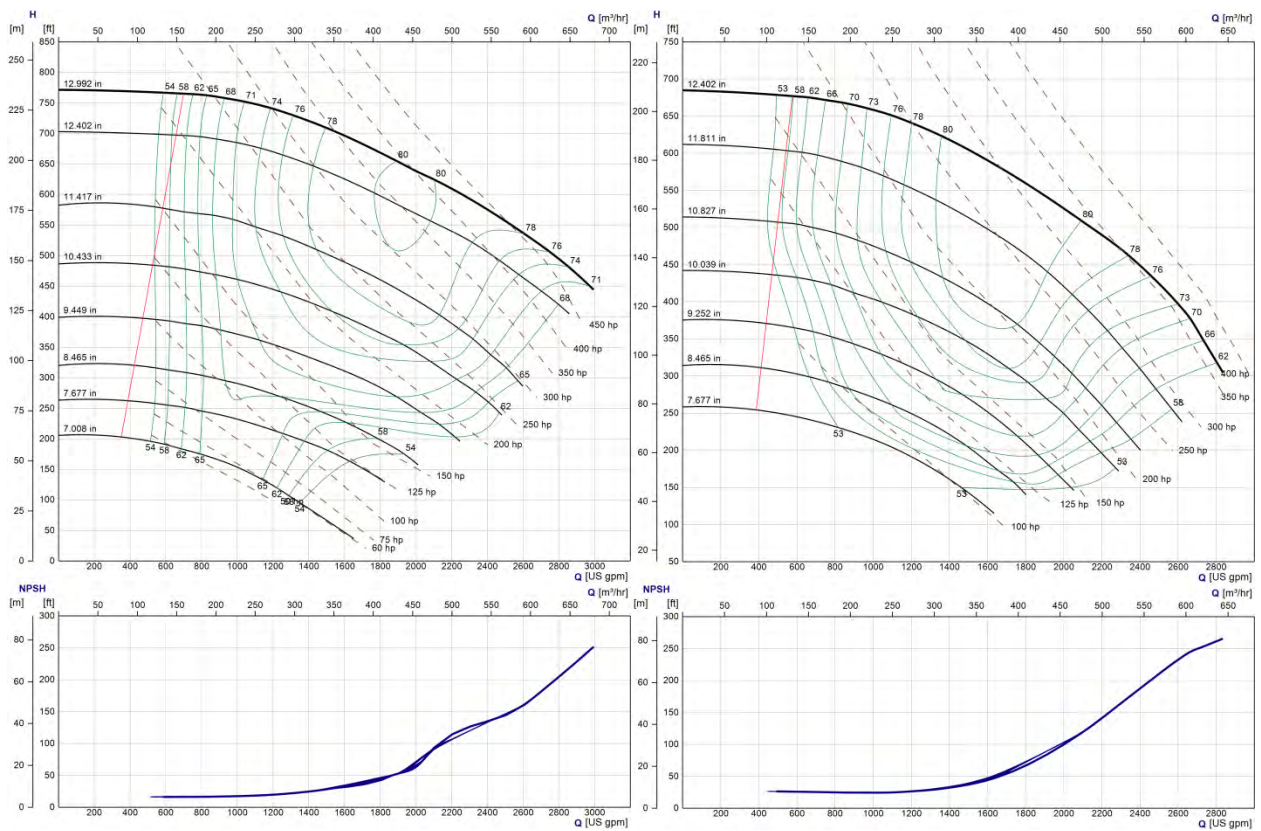
4x5x6.5 & 4x5x6 (3560 RPM)



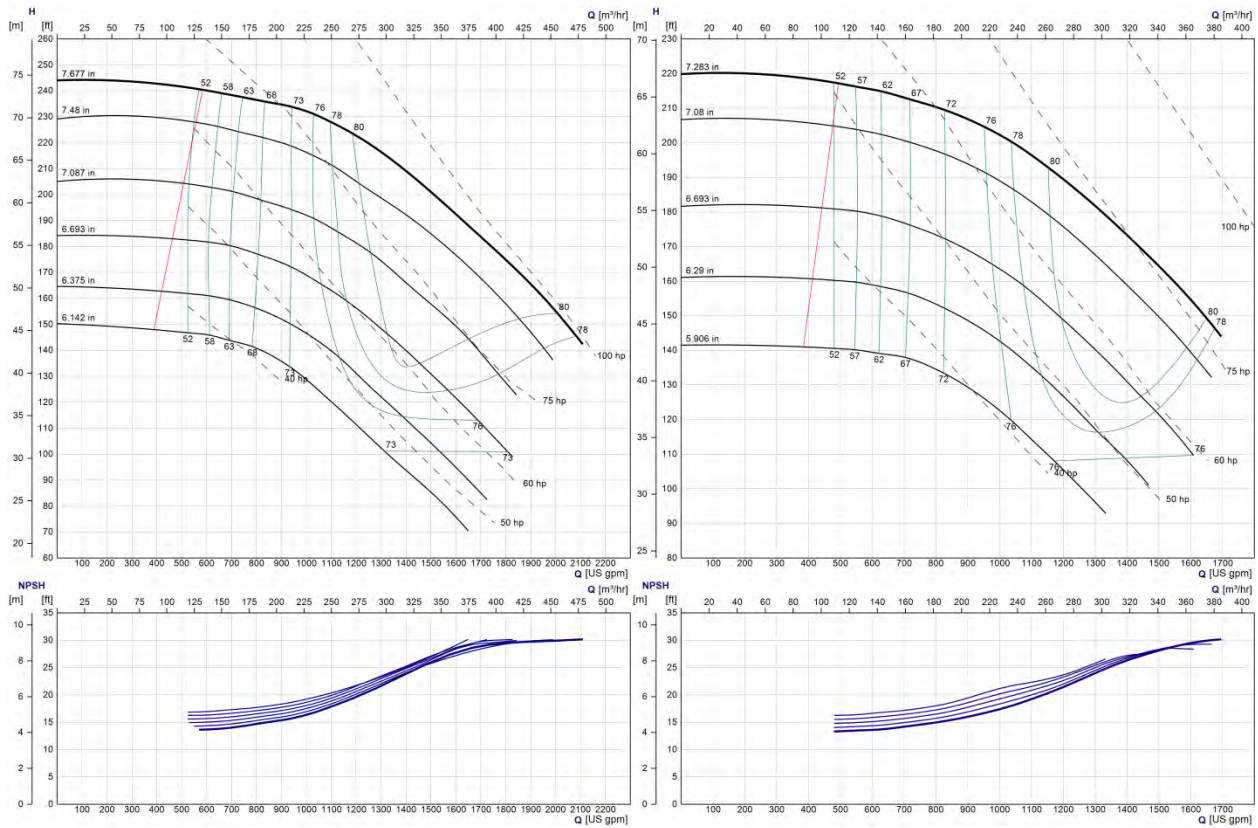
4x6x10 & 4x6x9.5 (3560 RPM)



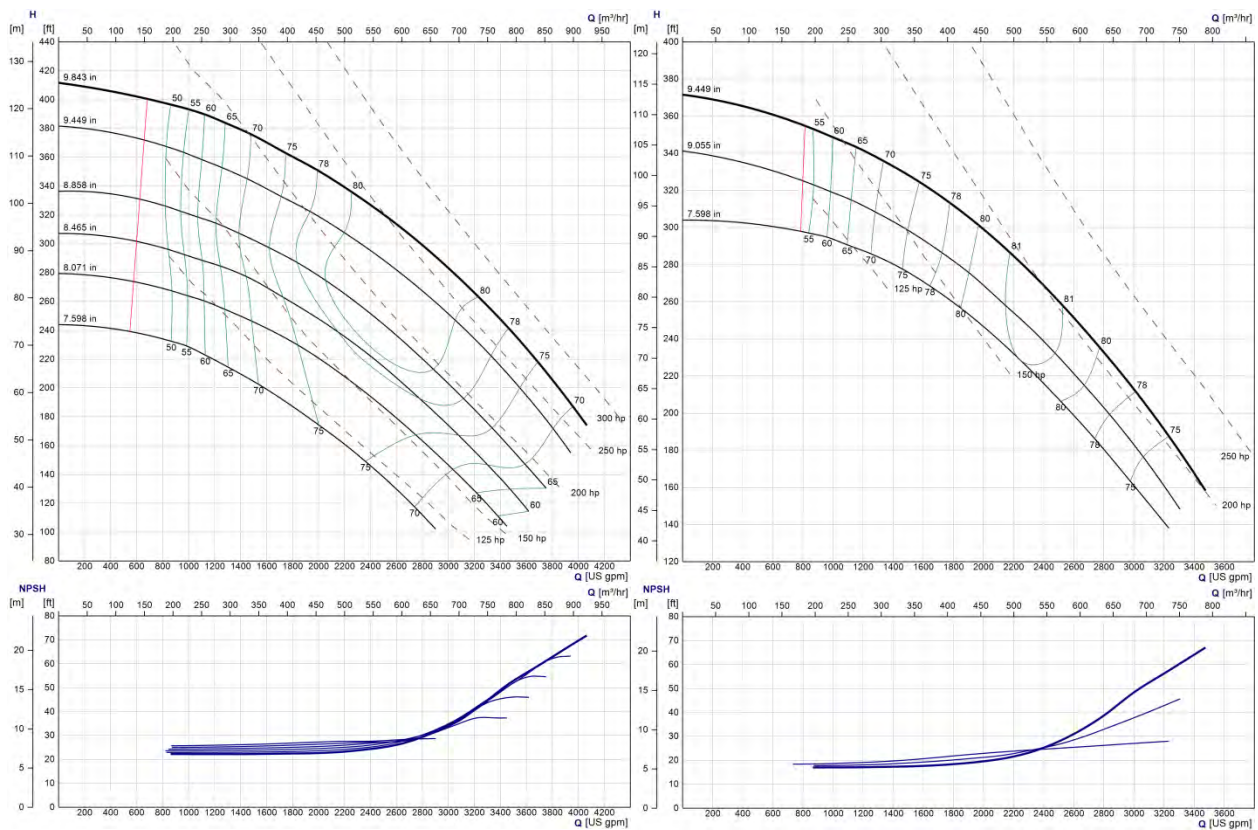
4x6x13 & 4x6x12 (3560 RPM)



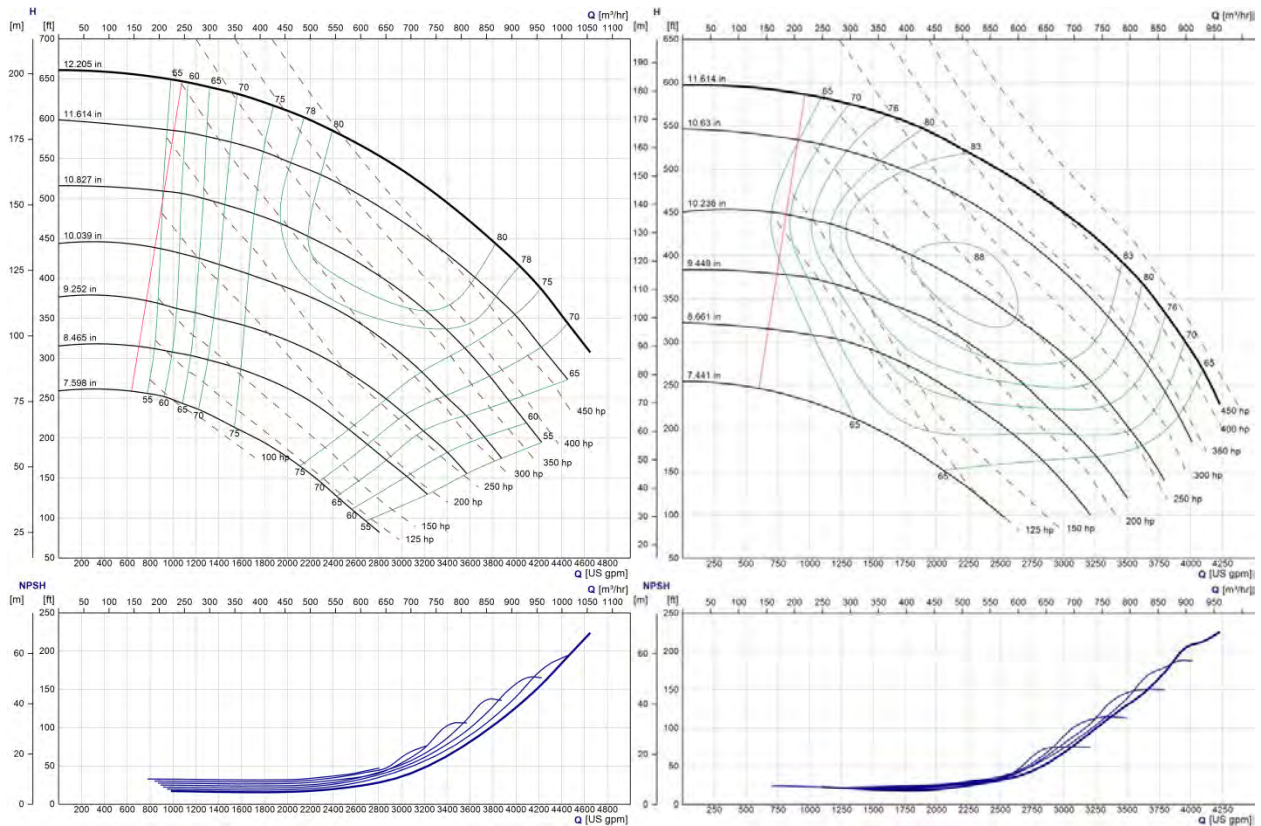
5x6x7.5 & 5x6x7 (3560 RPM)



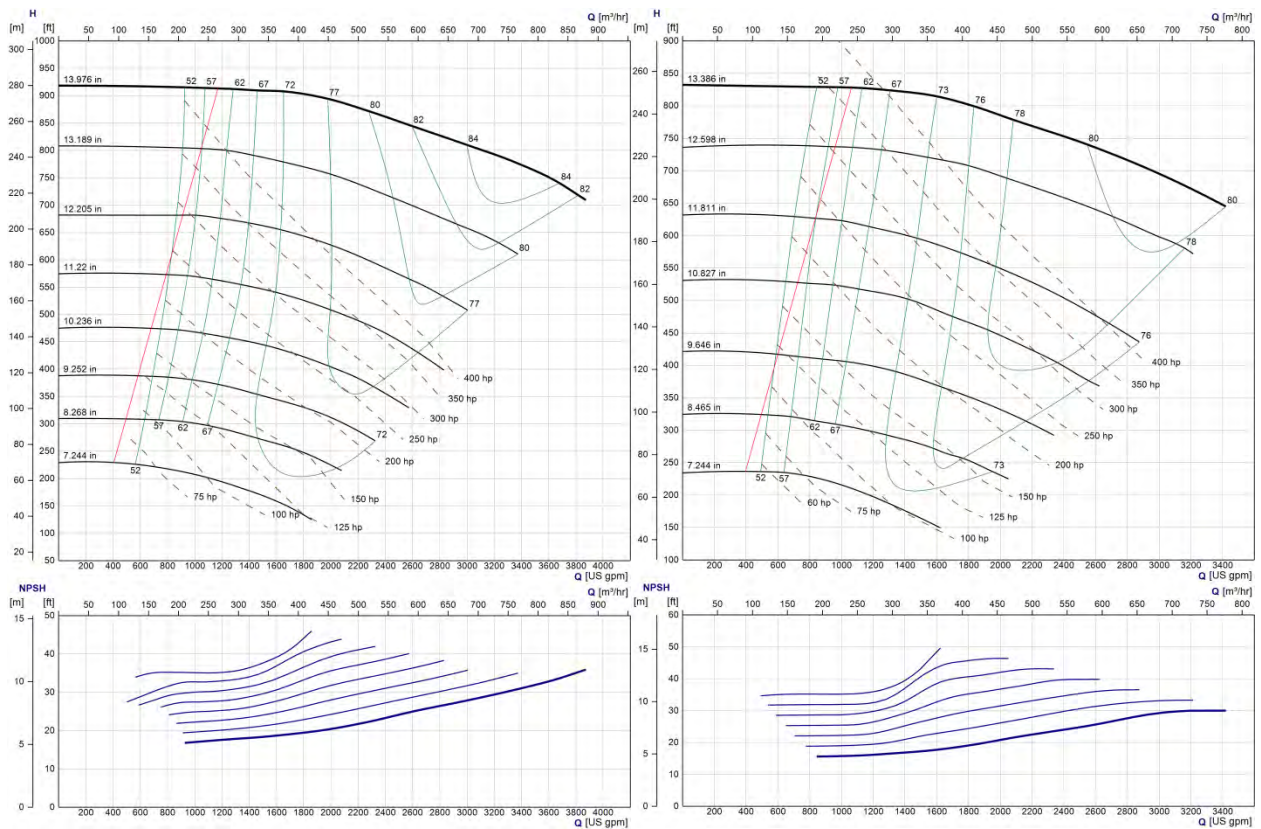
5x8x9.5 & 5x8x9 (3560 RPM)



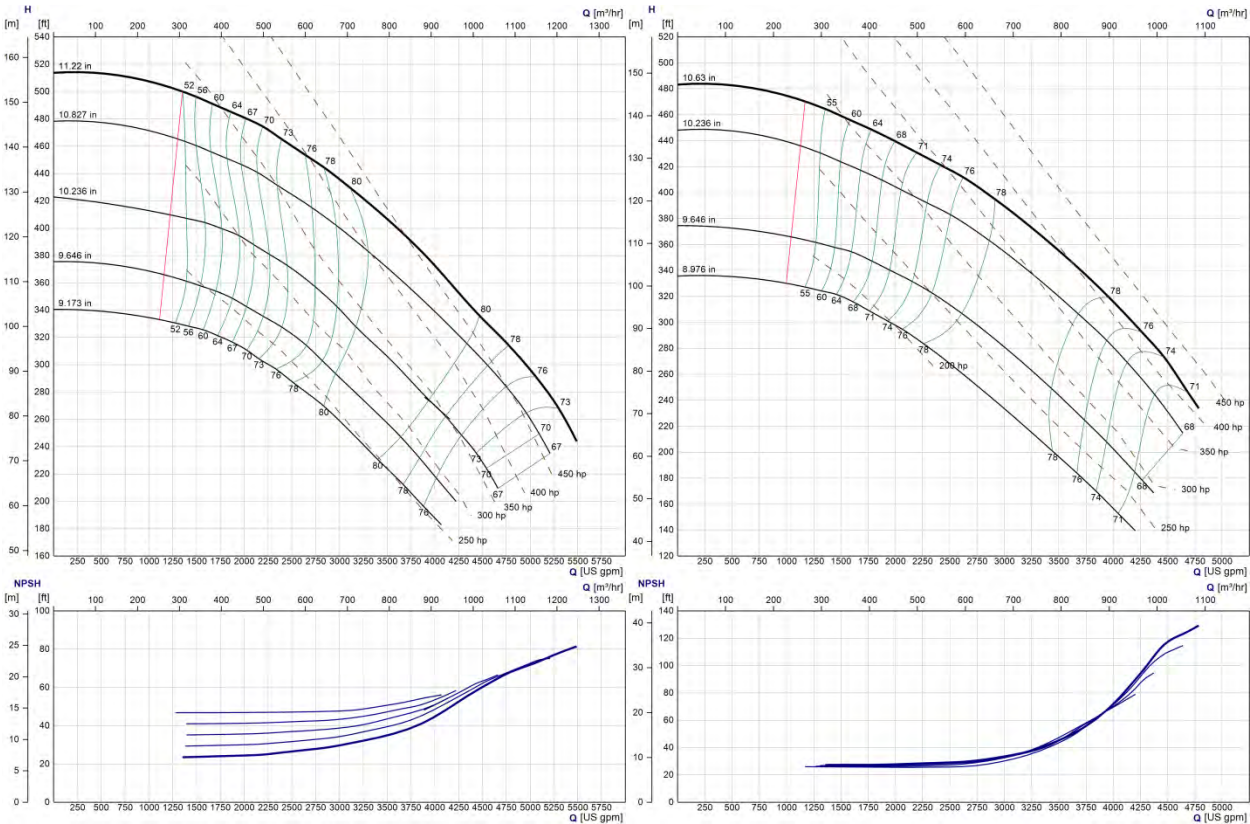
5x8x12 & 5x8x11 (3560 RPM)



5x8x14 & 5x8x13.5 (3560 RPM)

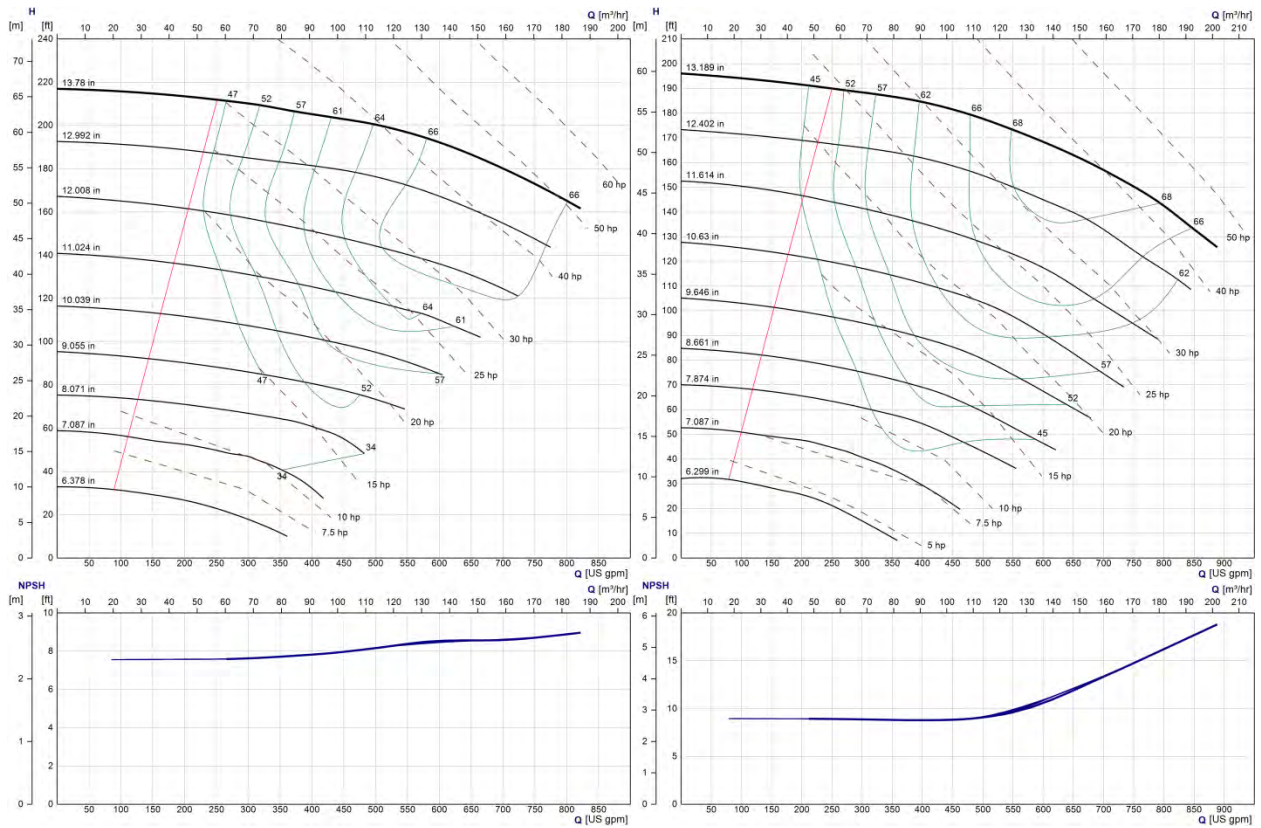


6x10x11 & 6x10x10.5 (3560 RPM)

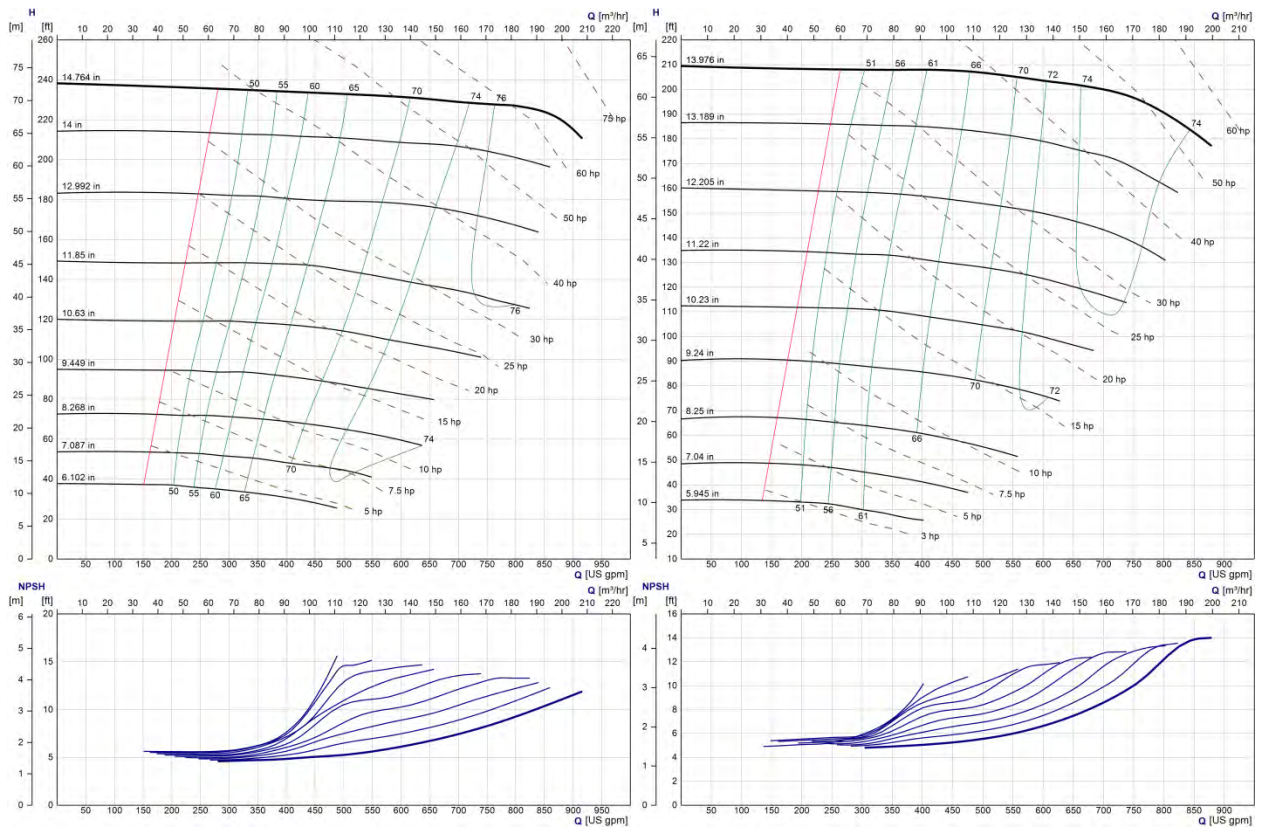


e-XC Pumps
Individual Performance Curves (60Hz)
4-Pole (1780 RPM)

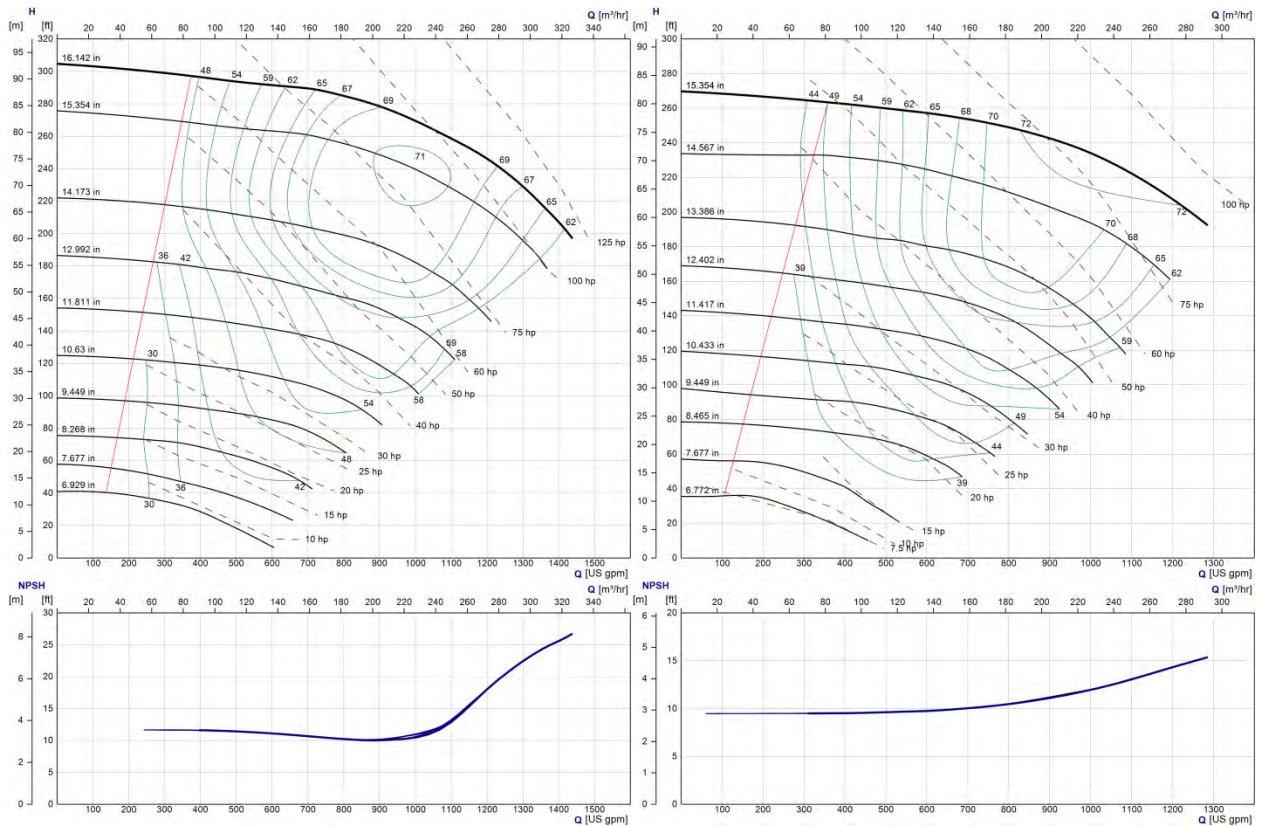
3x5x13.5 & 3x5x13 (1780 RPM)



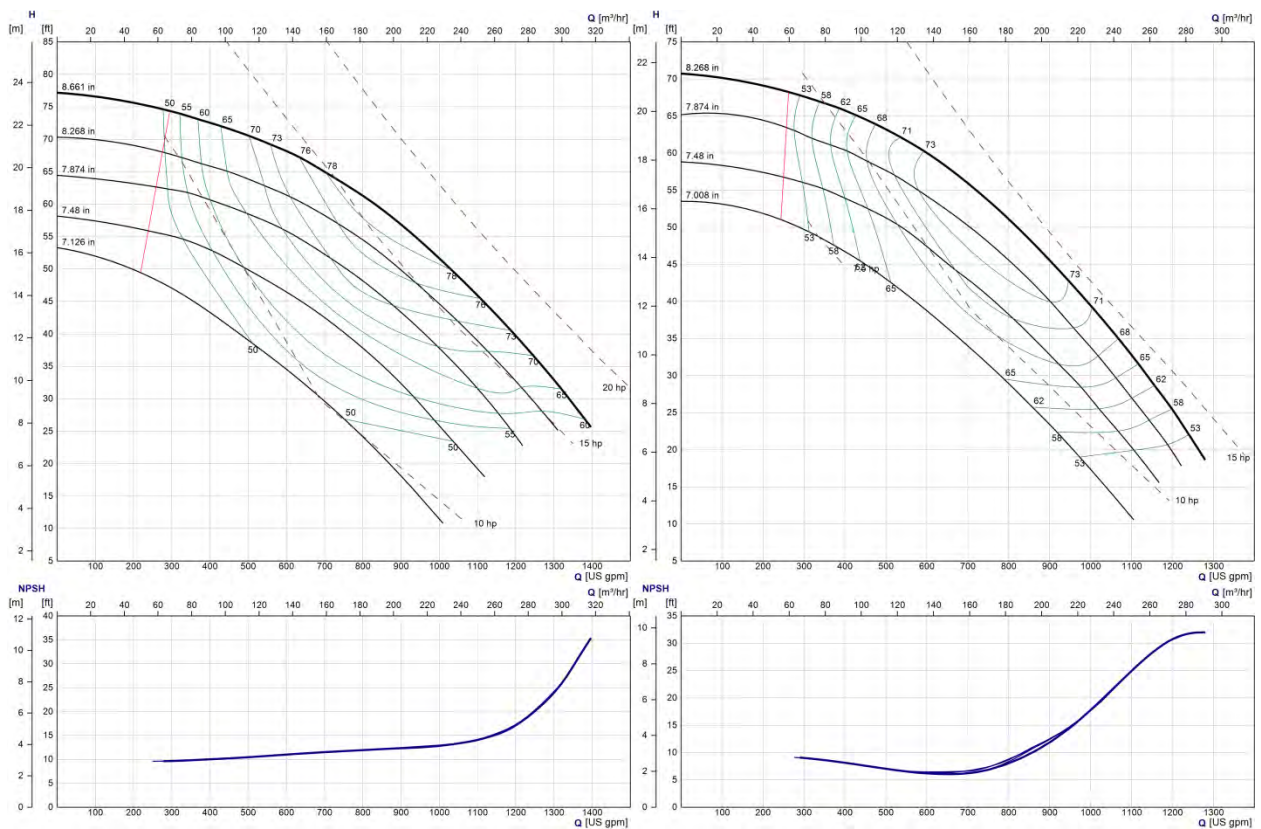
4x6x14.5 & 4x6x13.5 (1780 RPM)



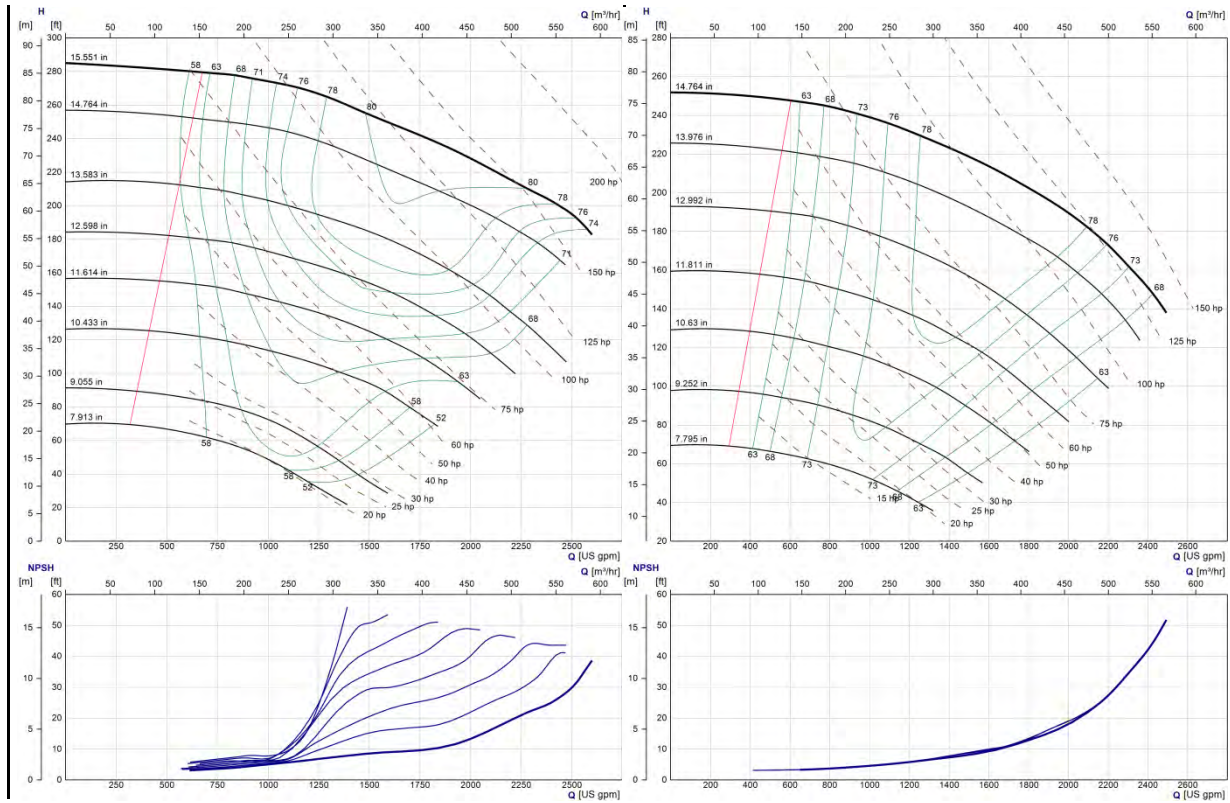
4x6x16 & 4x6x15.5 (1780 RPM)



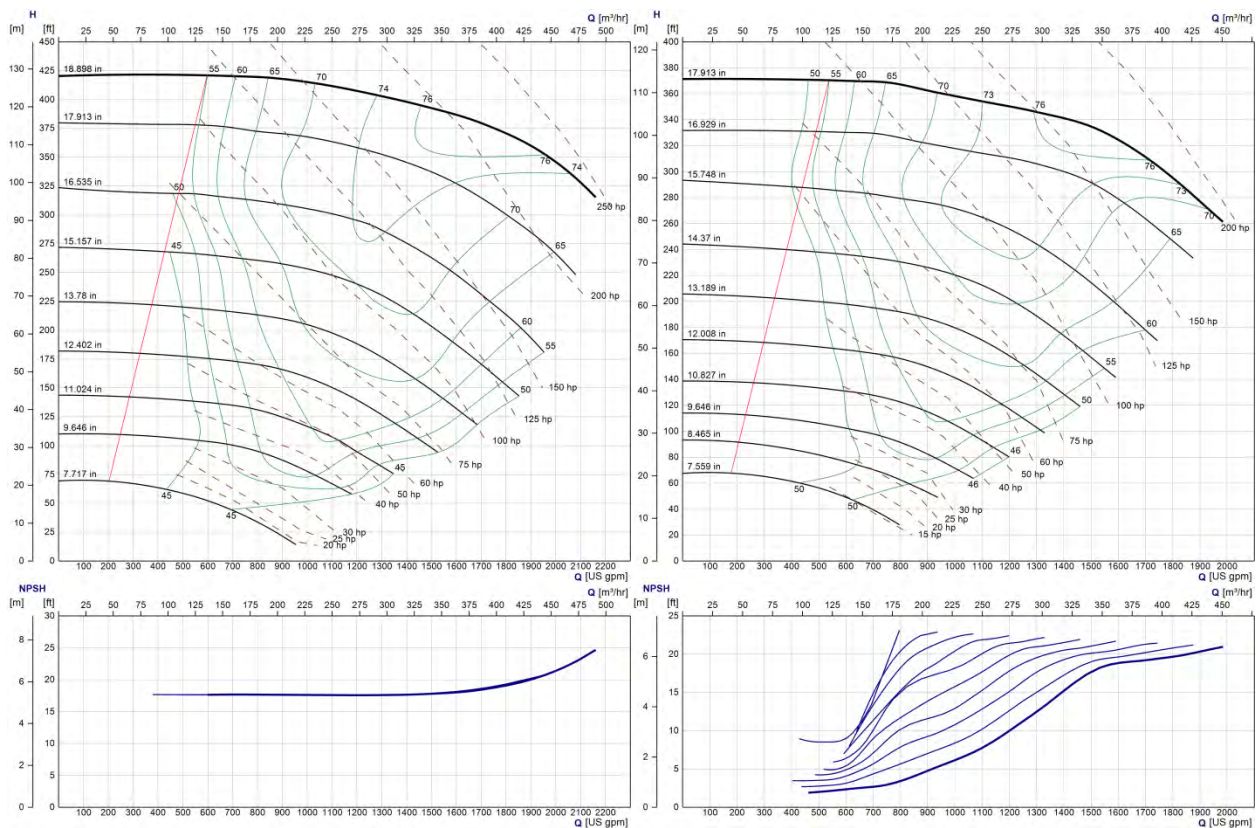
5x6x9 & 5x6x8.5 (1780 RPM)



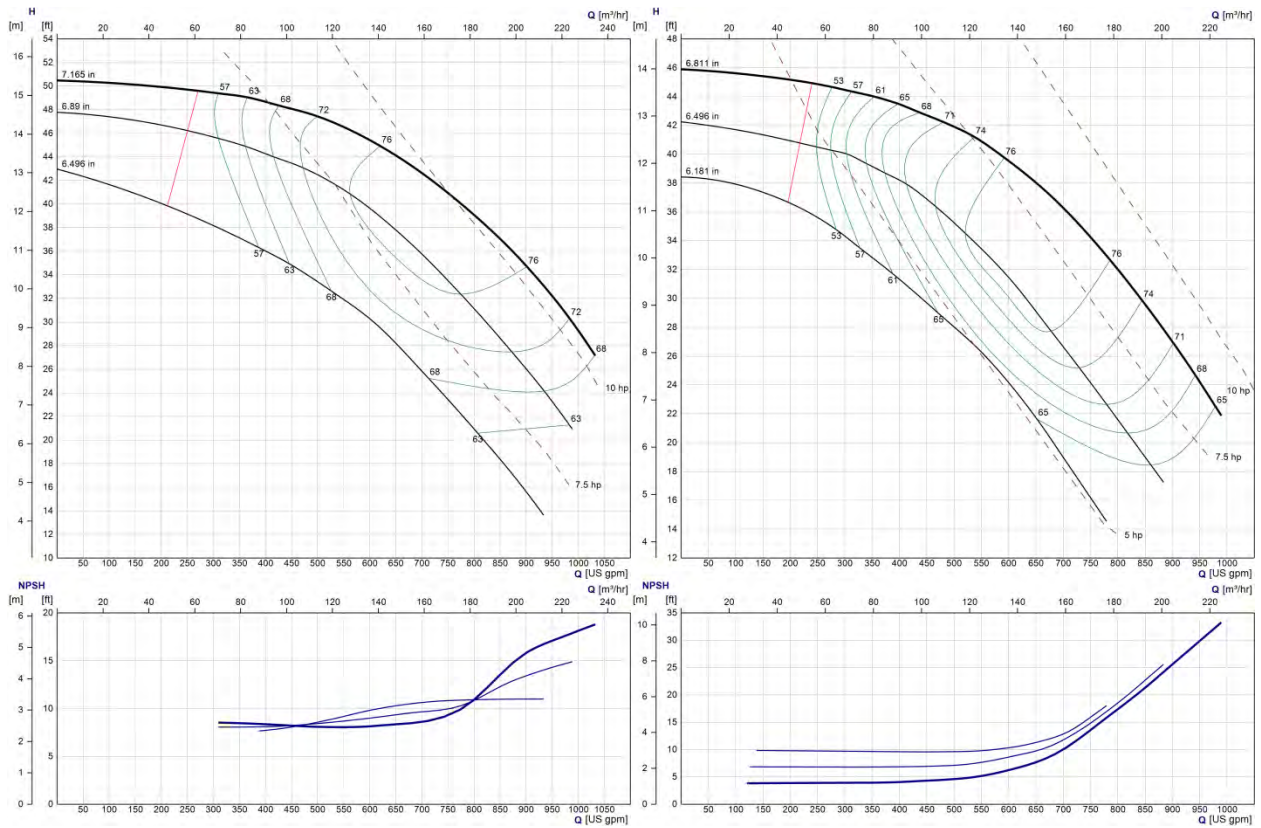
5x8x15.5 & 5x8x14.5 (1780 RPM)



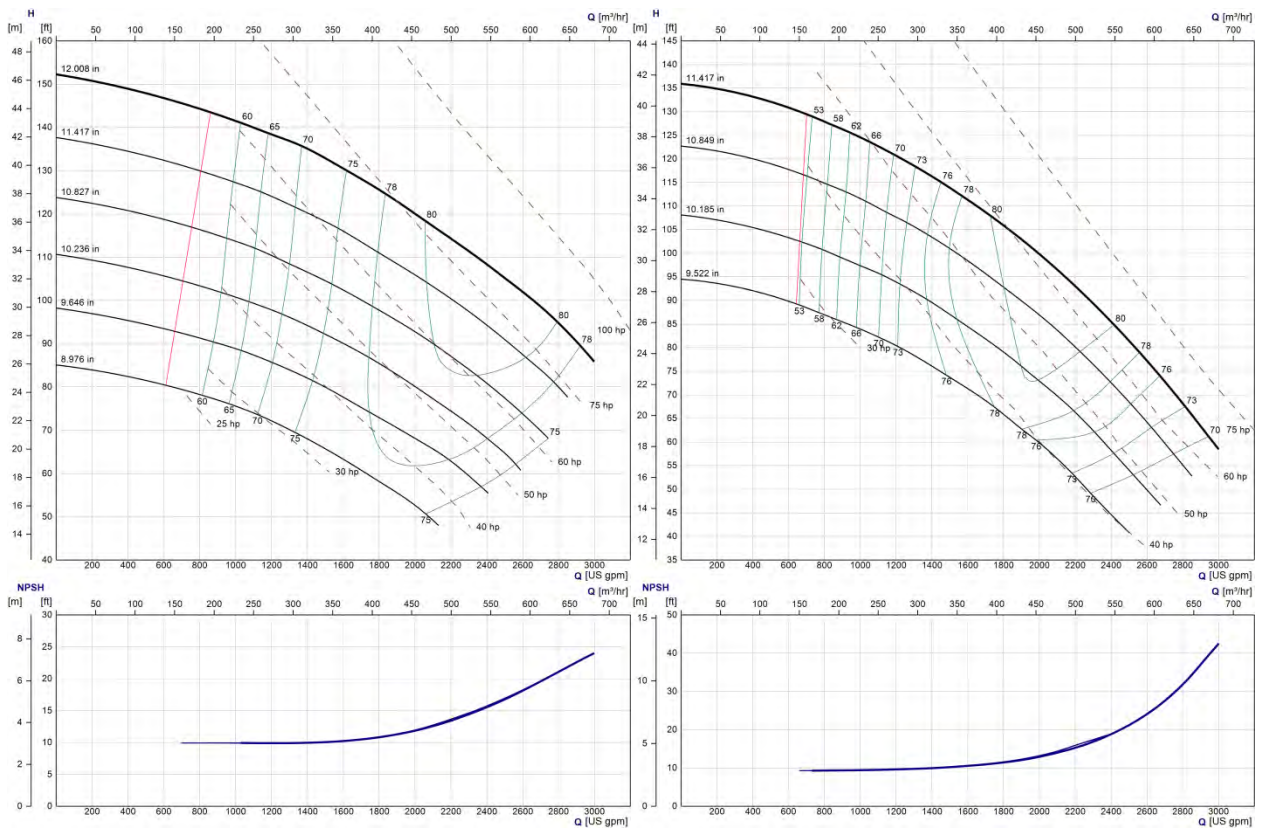
5x8x19 & 5x8x18 (1780 RPM)



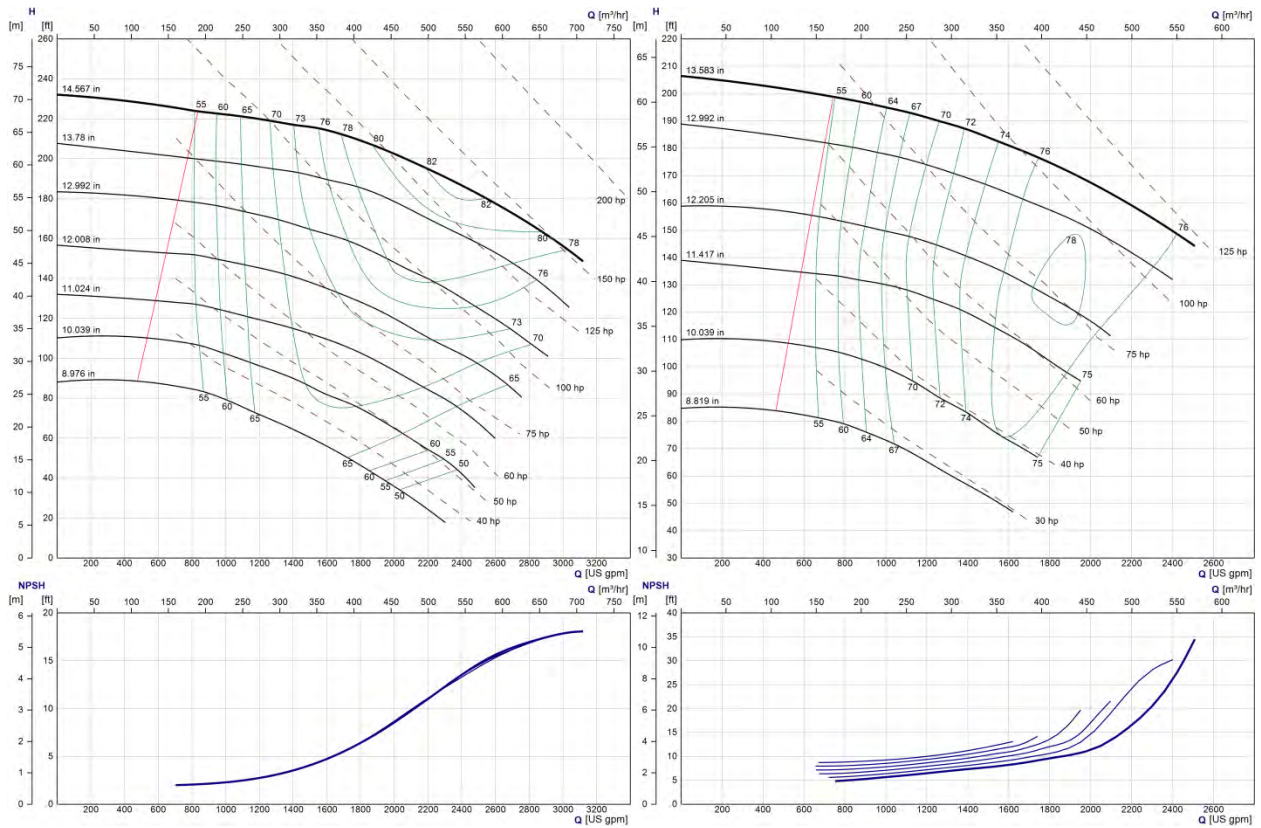
6x8x6.5 & 6x8x6 (1780 RPM)



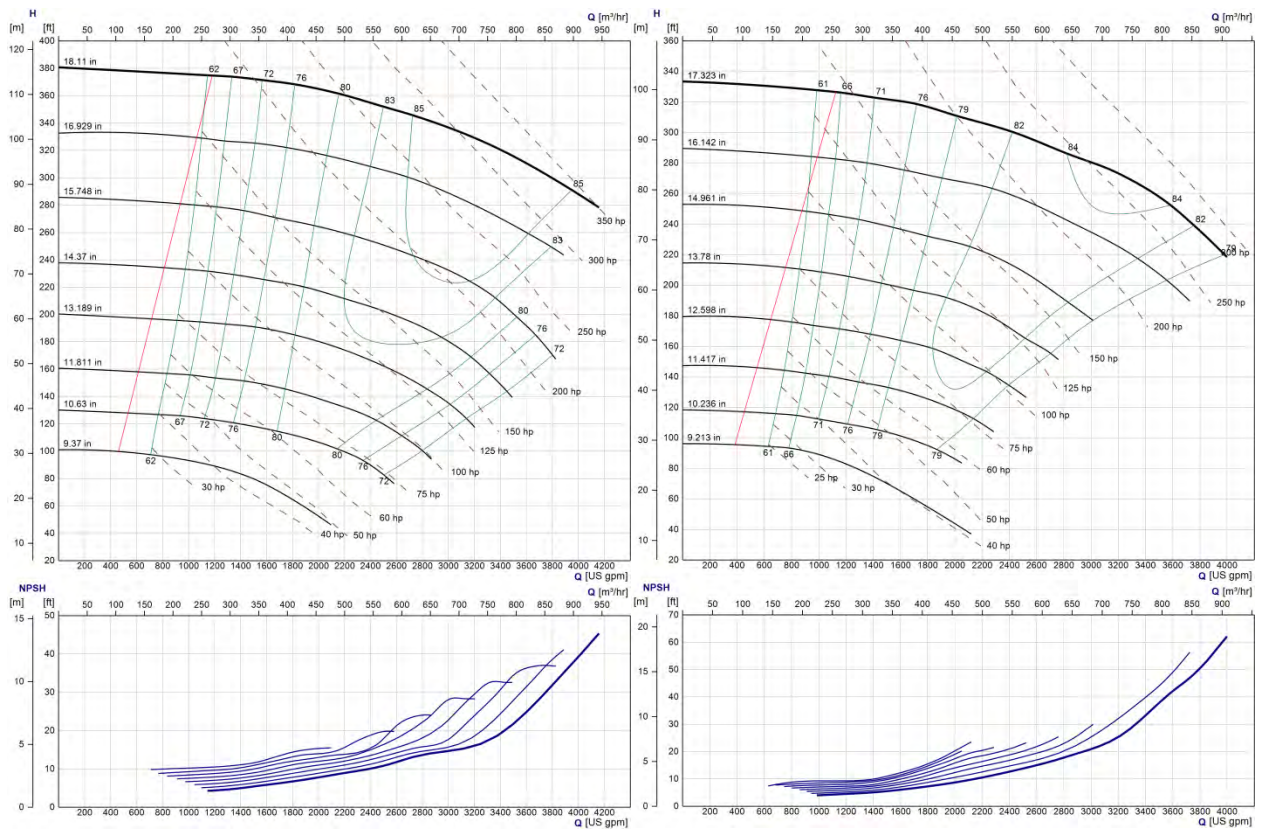
6x8x12 & 6x8x11 (1780 RPM)



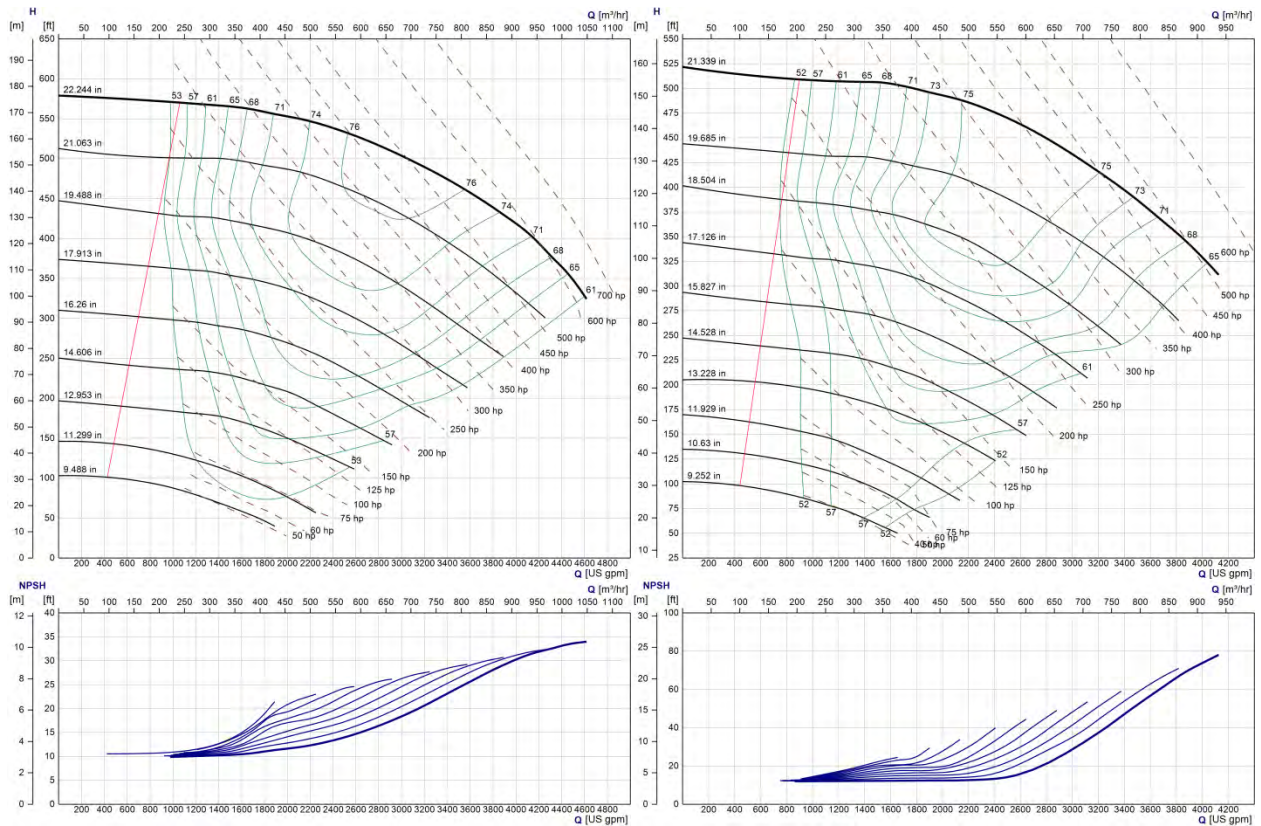
6x8x14 & 6x8x13.5 (1780 RPM)



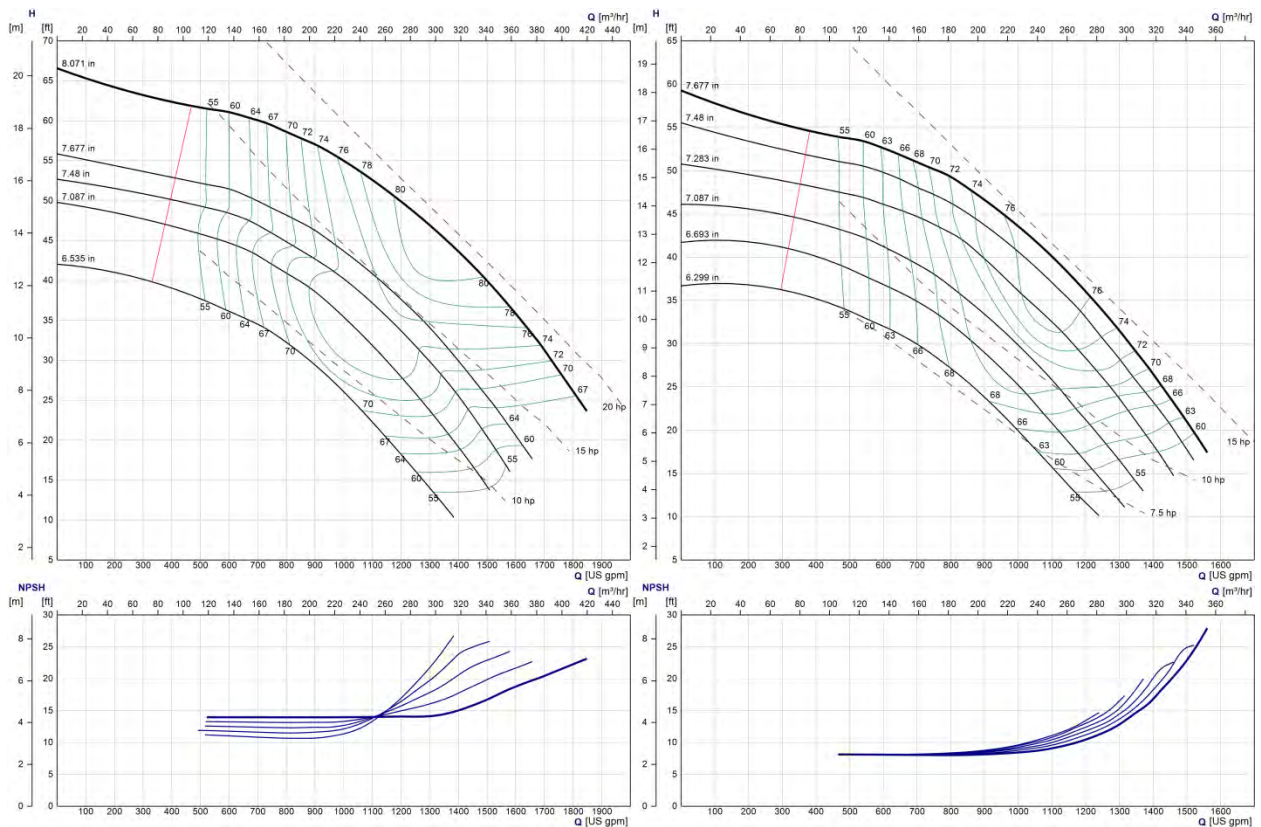
6x8x18 & 6x8x17 (1780 RPM)



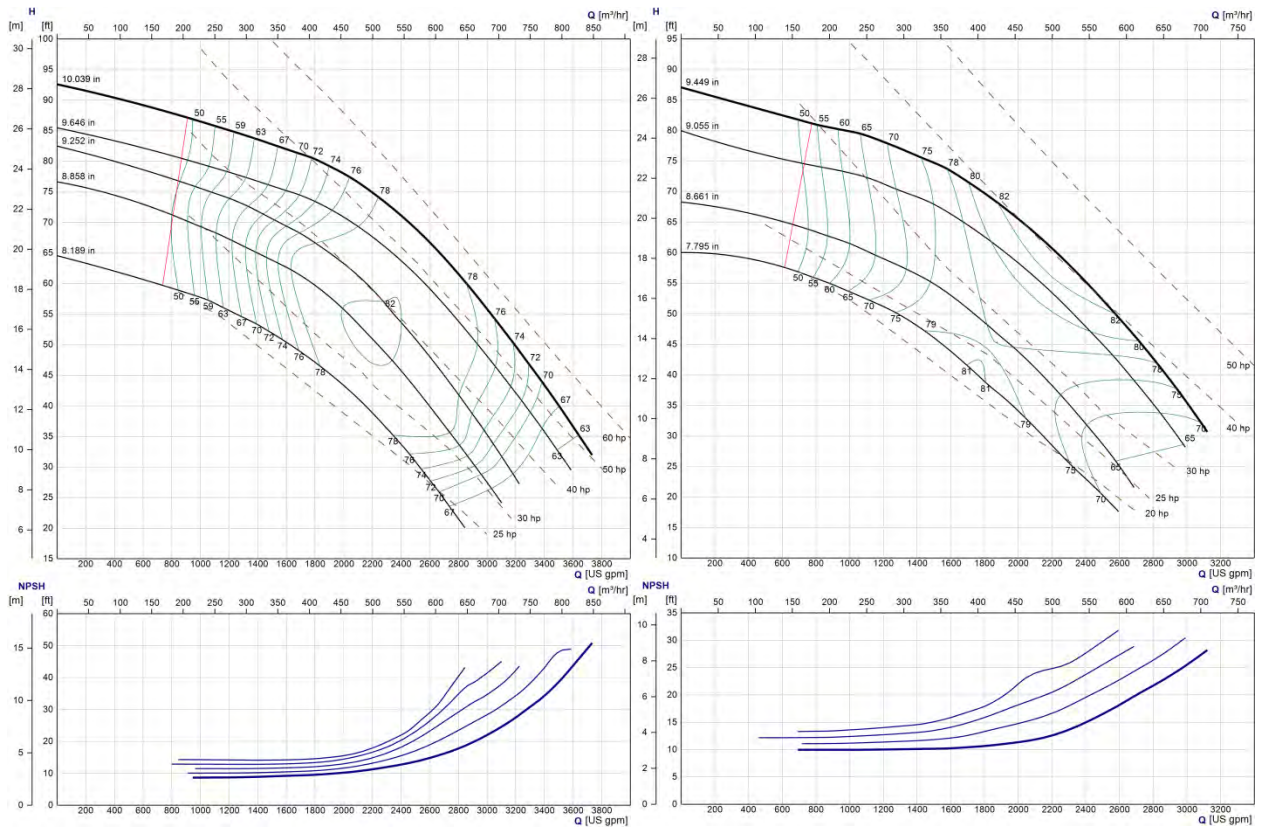
6x8x22 & 6x8x21 (1780 RPM)



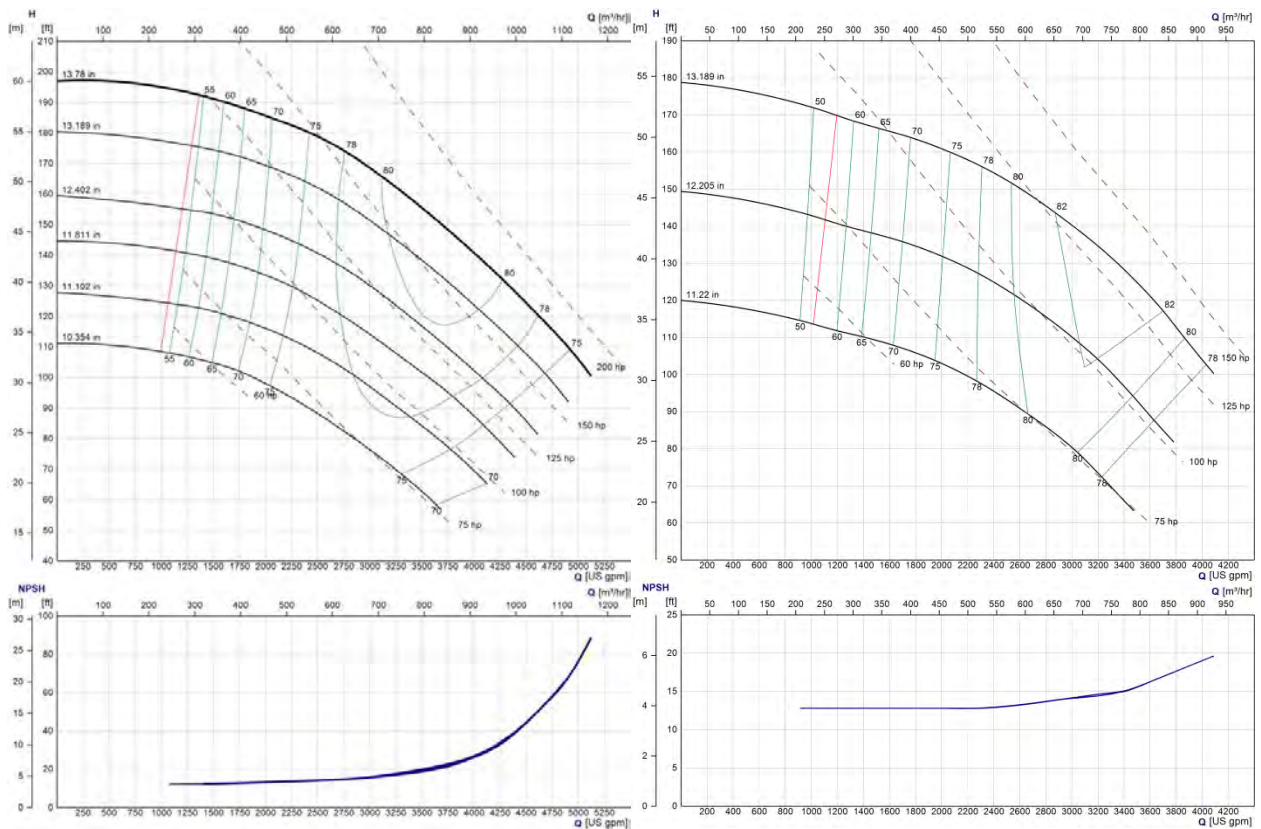
8x8x8 & 8x8x7.5 (1780 RPM)



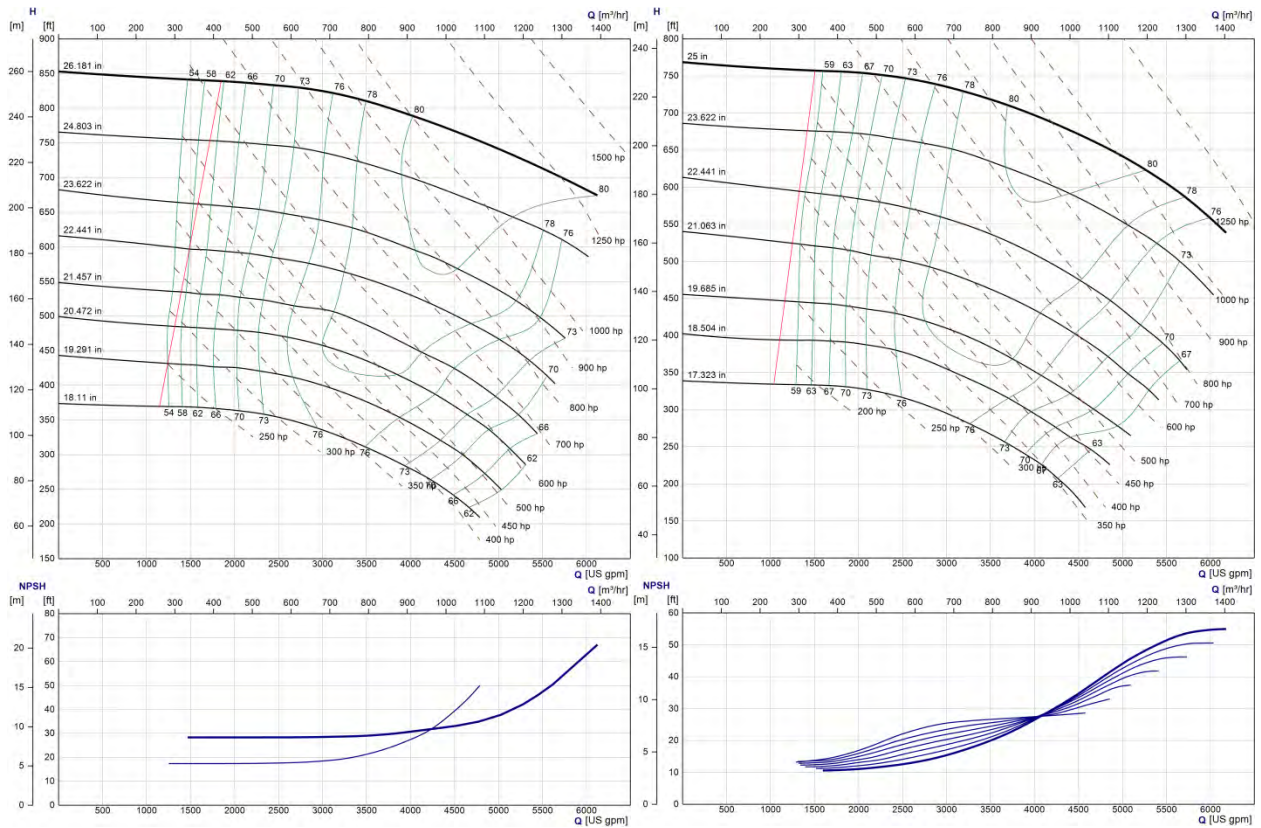
8x10x10 & 8x10x9.5 (1780 RPM)



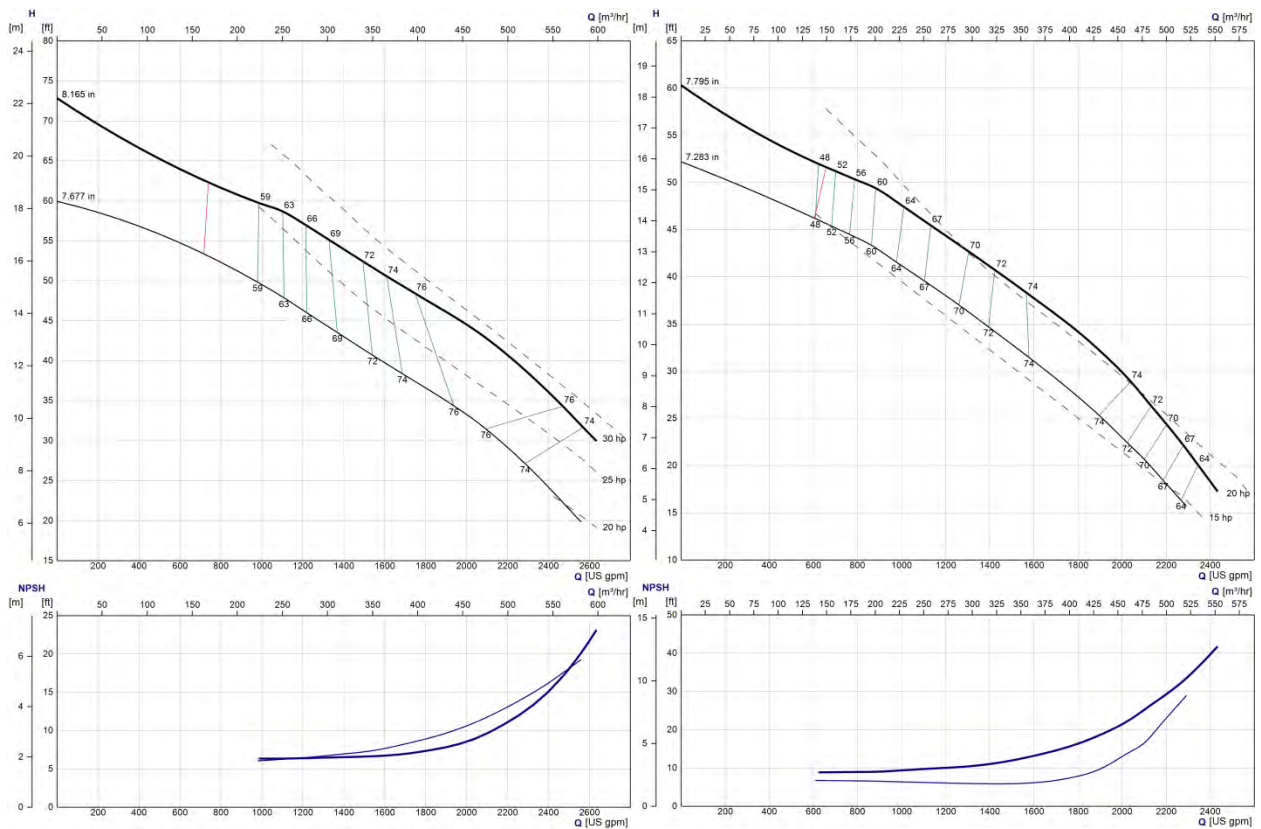
8x10x13.5 & 8x10x13 (1780 RPM)



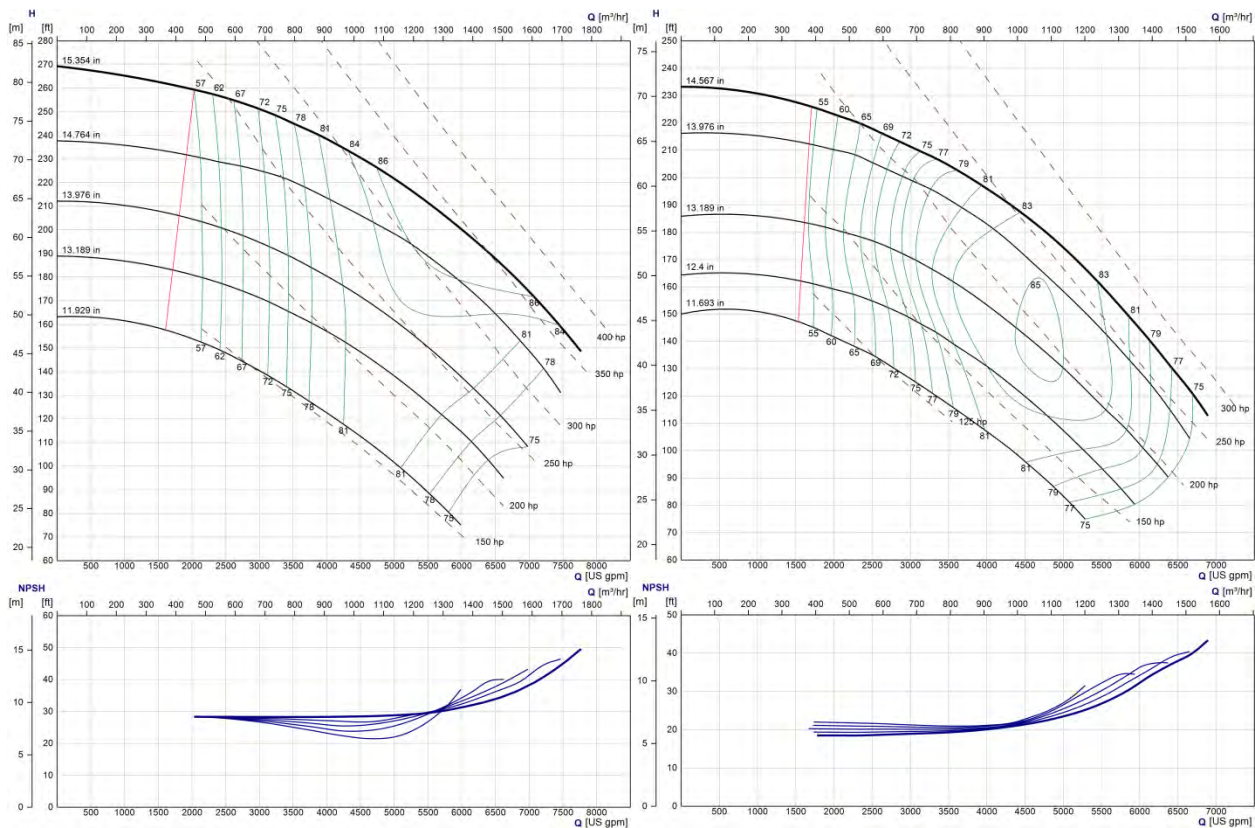
8x10x26 & 8x10x25 (1780 RPM)



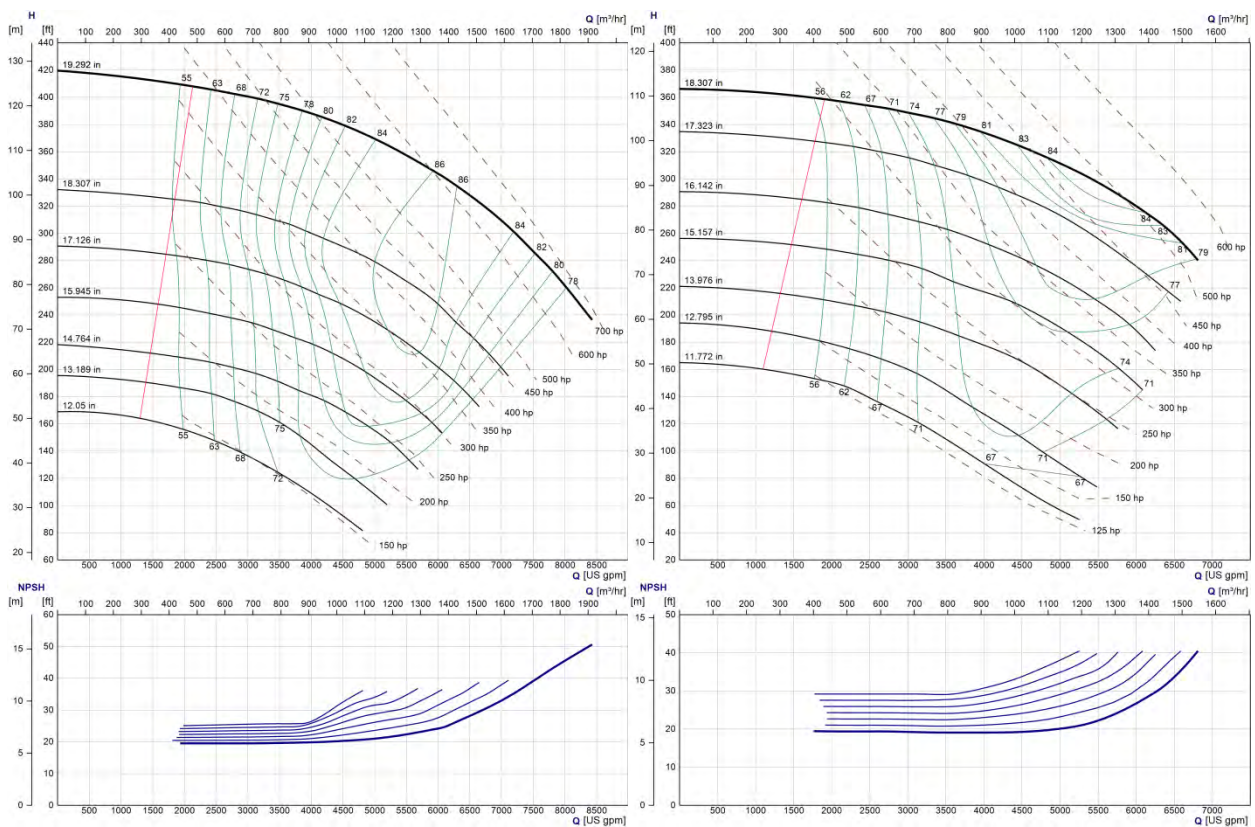
10x10x8 & 10x10x7.5 (1780 RPM)



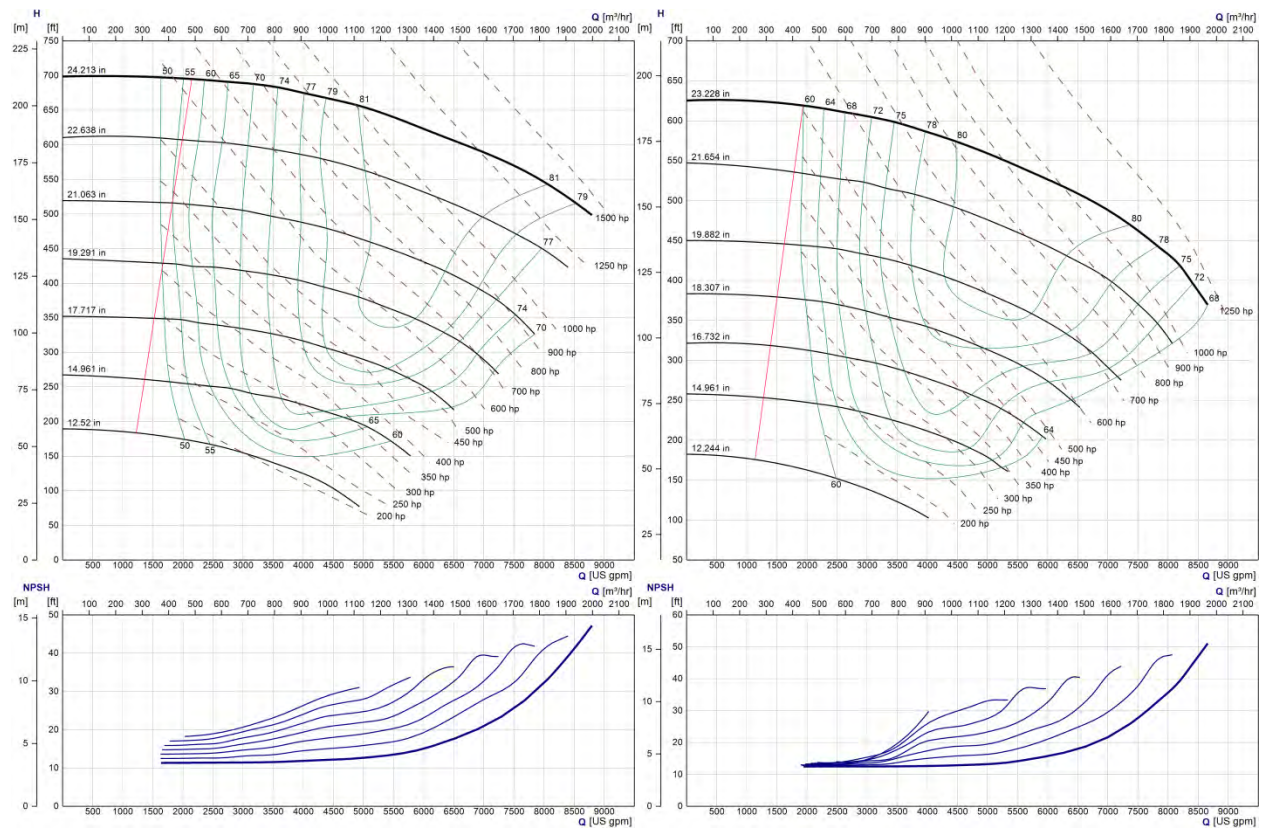
10x12x15.5 & 10x12x14.5 (1780 RPM)



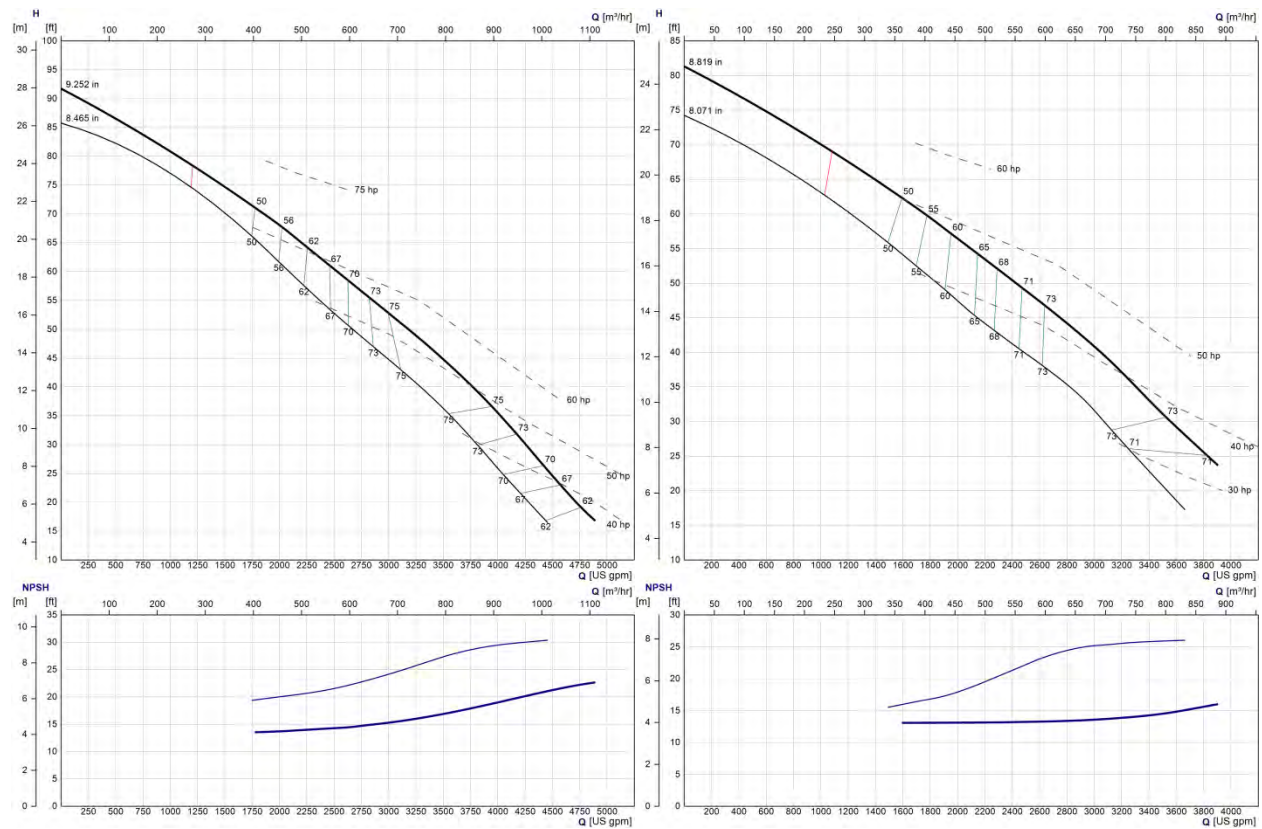
10x12x19 & 10x12x18 (1780 RPM)



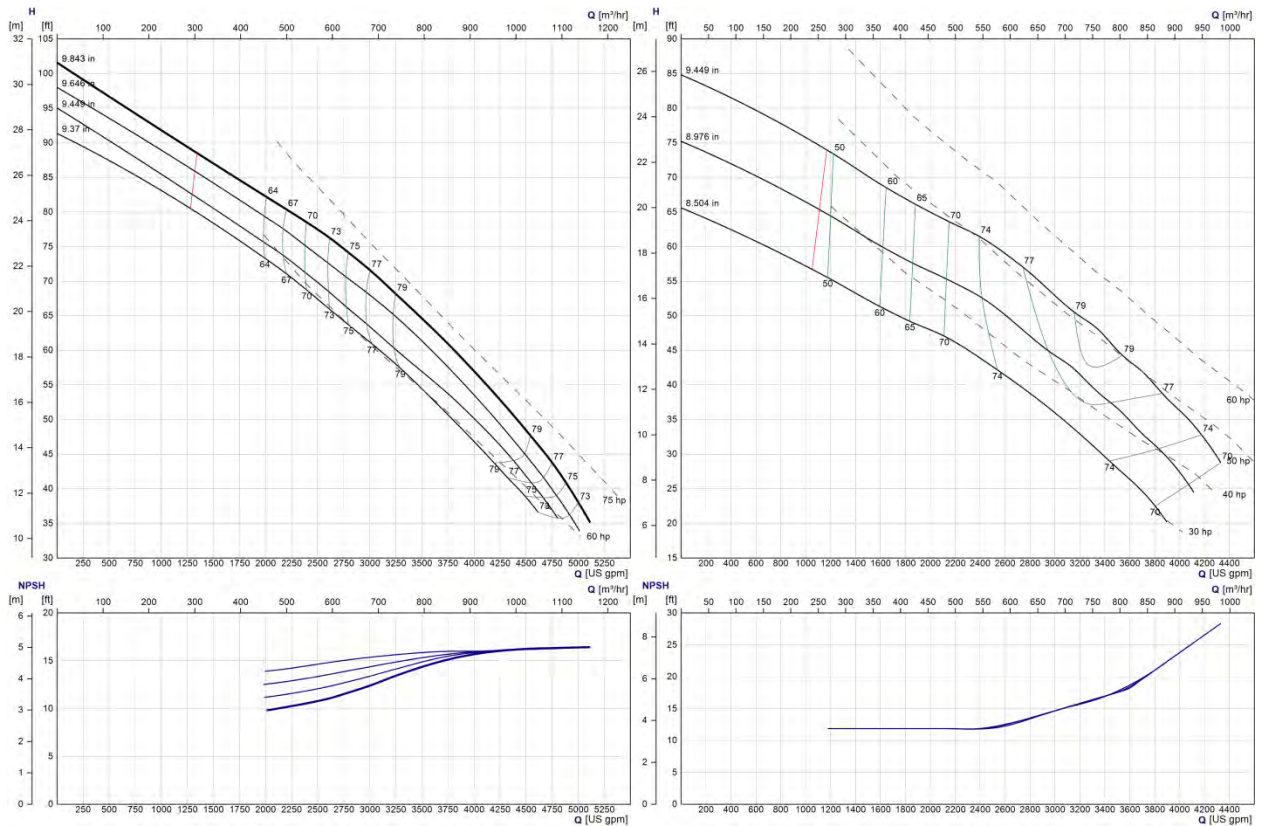
10x12x24 & 10x12x23 (1780 RPM)



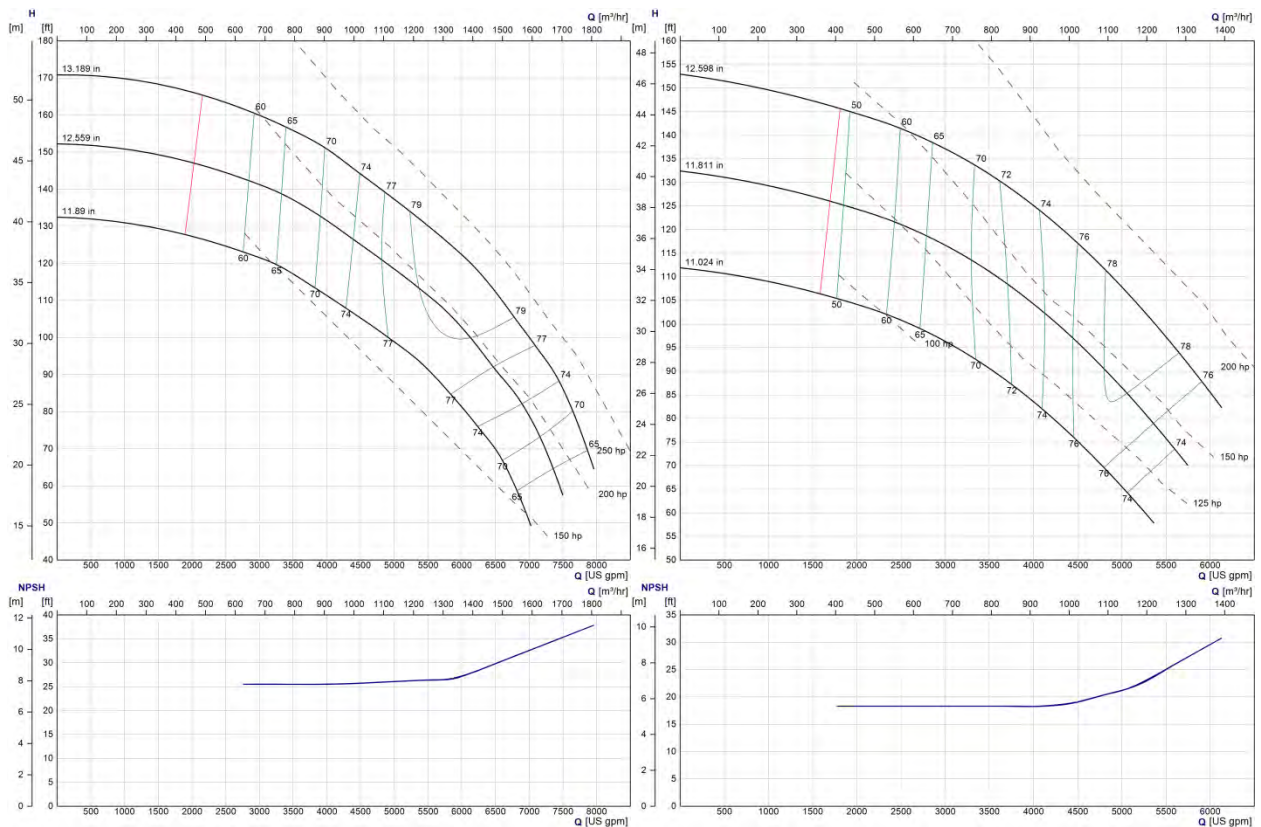
12x12x9 & 12x12x8.5 (1780 RPM)



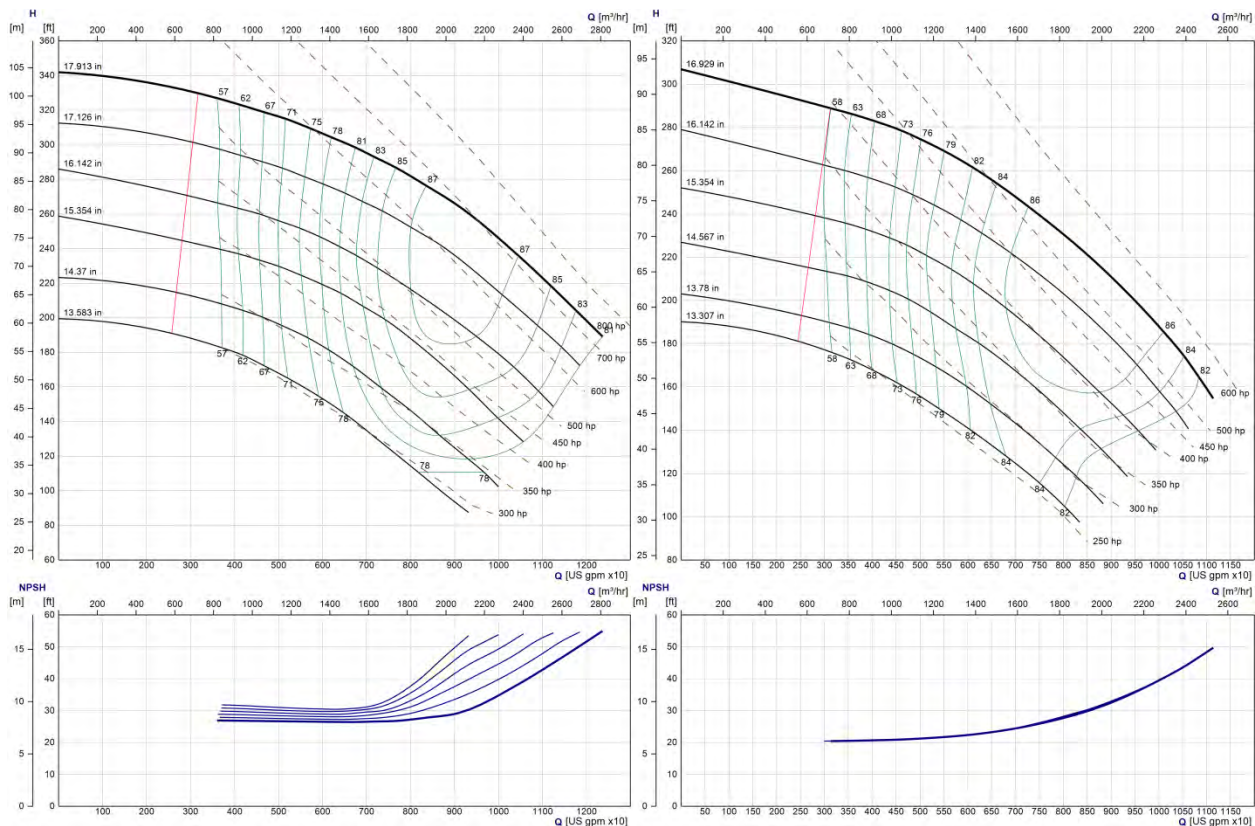
12x12x10 & 12x12x9.5 (1780 RPM)



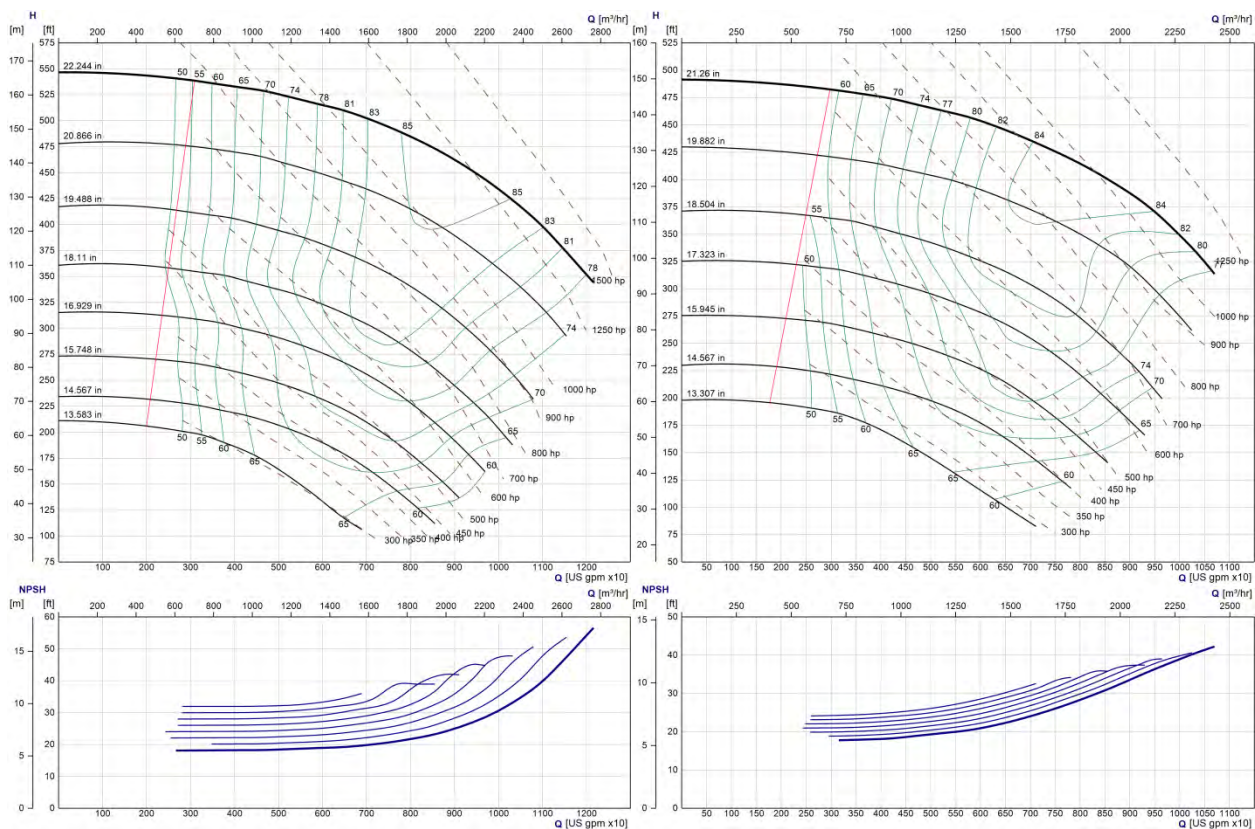
12x14x13 & 12x14x12.5 (1780 RPM)



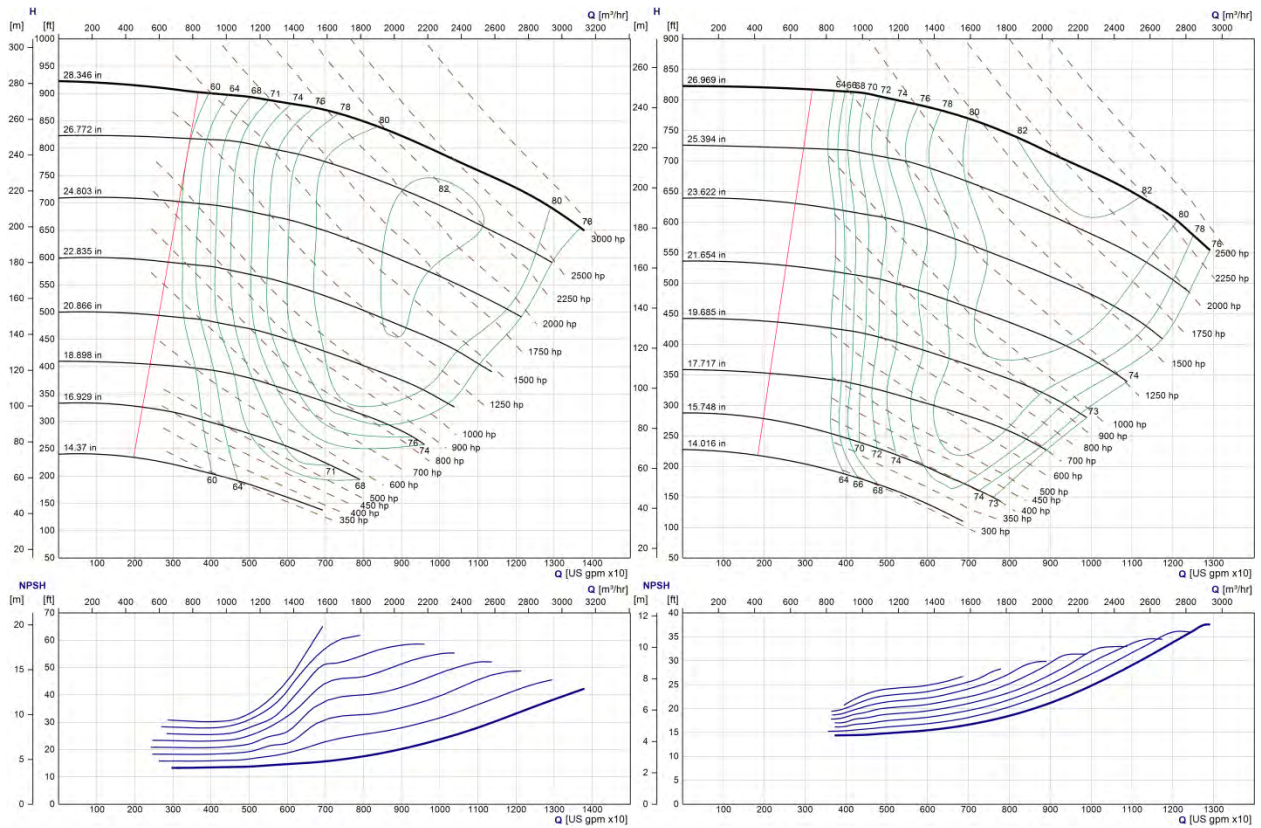
12x16x18 & 12x16x17 (1780 RPM)



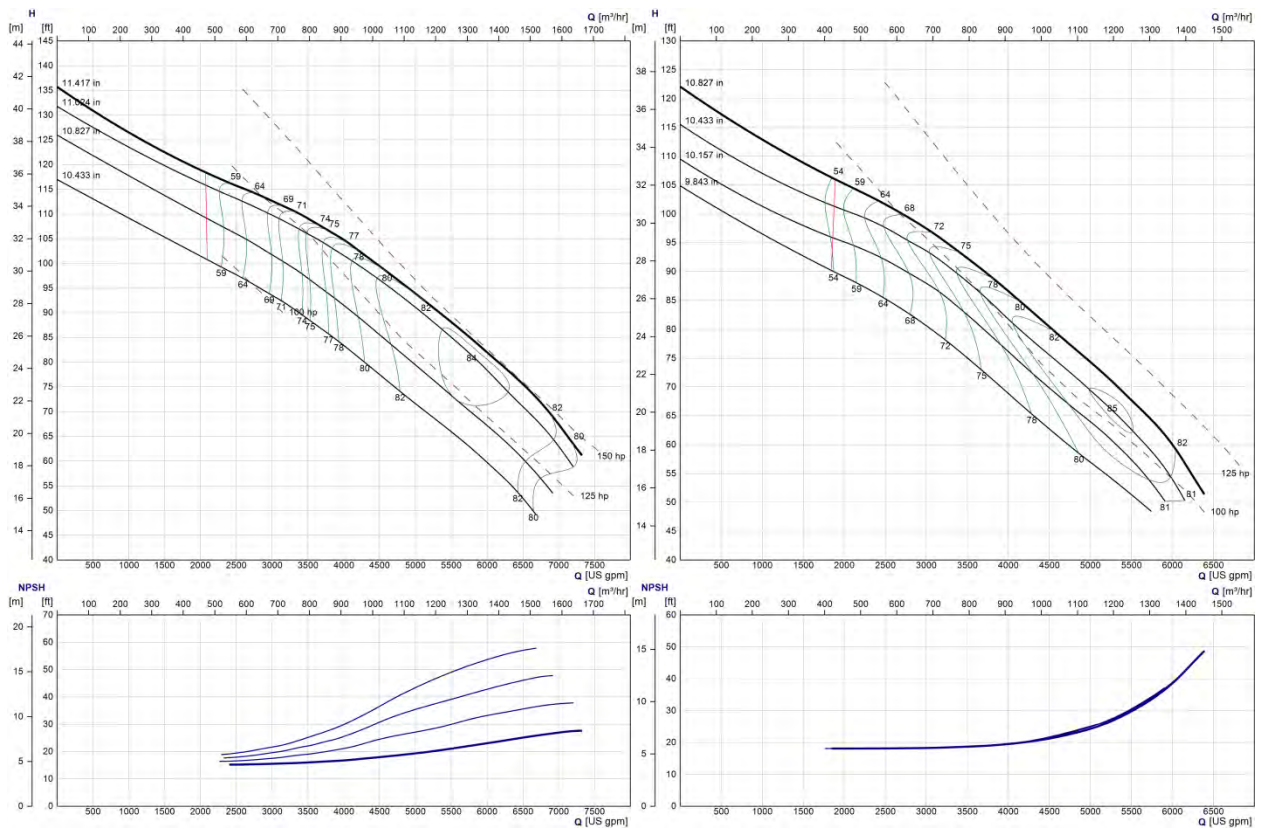
12x16x22 & 12x16x21 (1780 RPM)



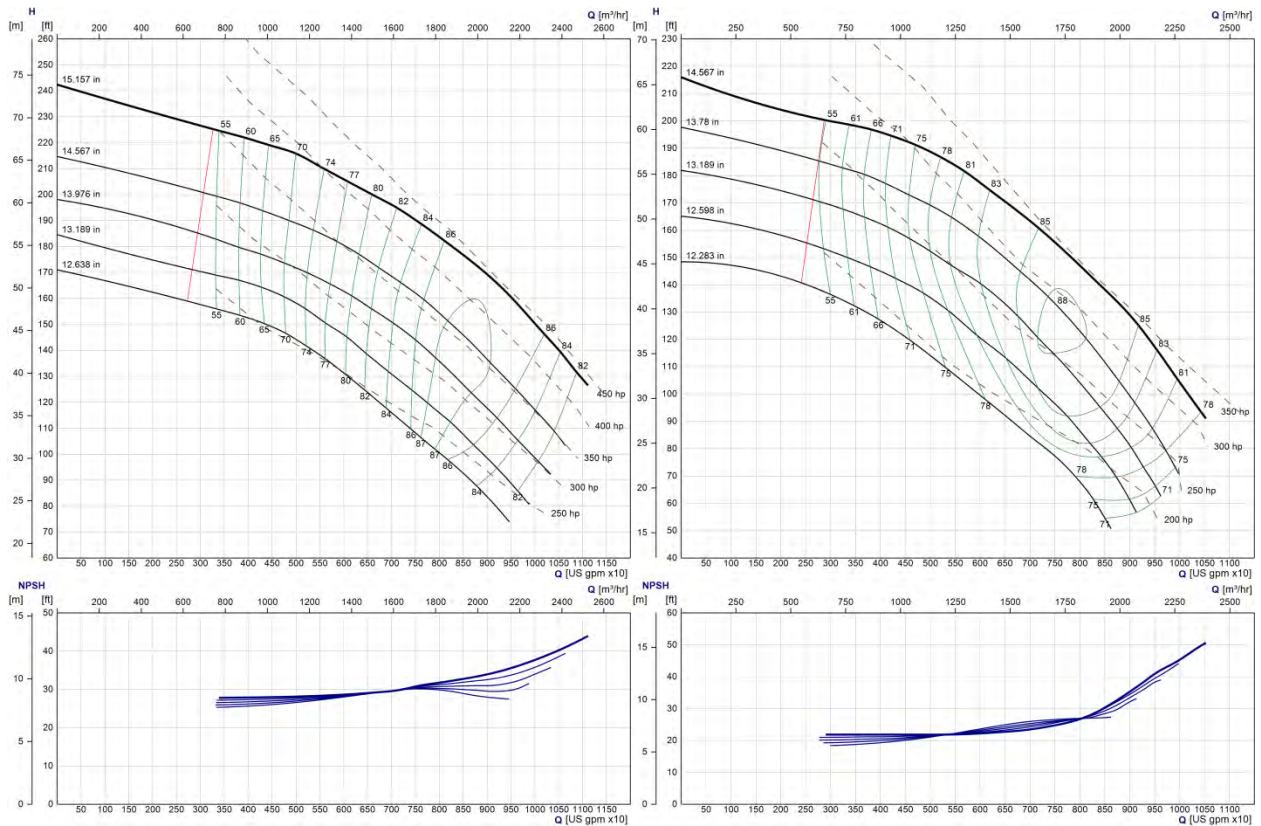
12x16x28 & 12x16x27 (1780 RPM)



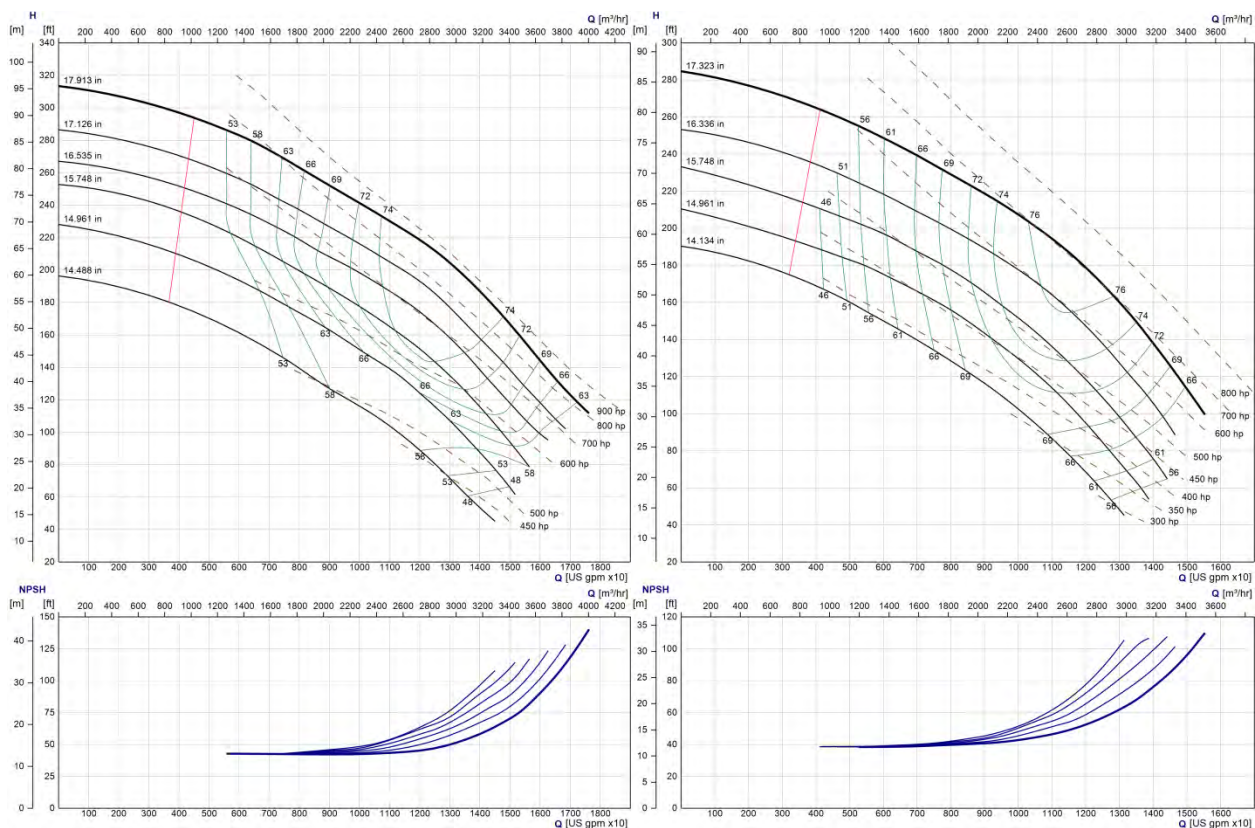
14x14x12 & 14x14x11 (1780 RPM)



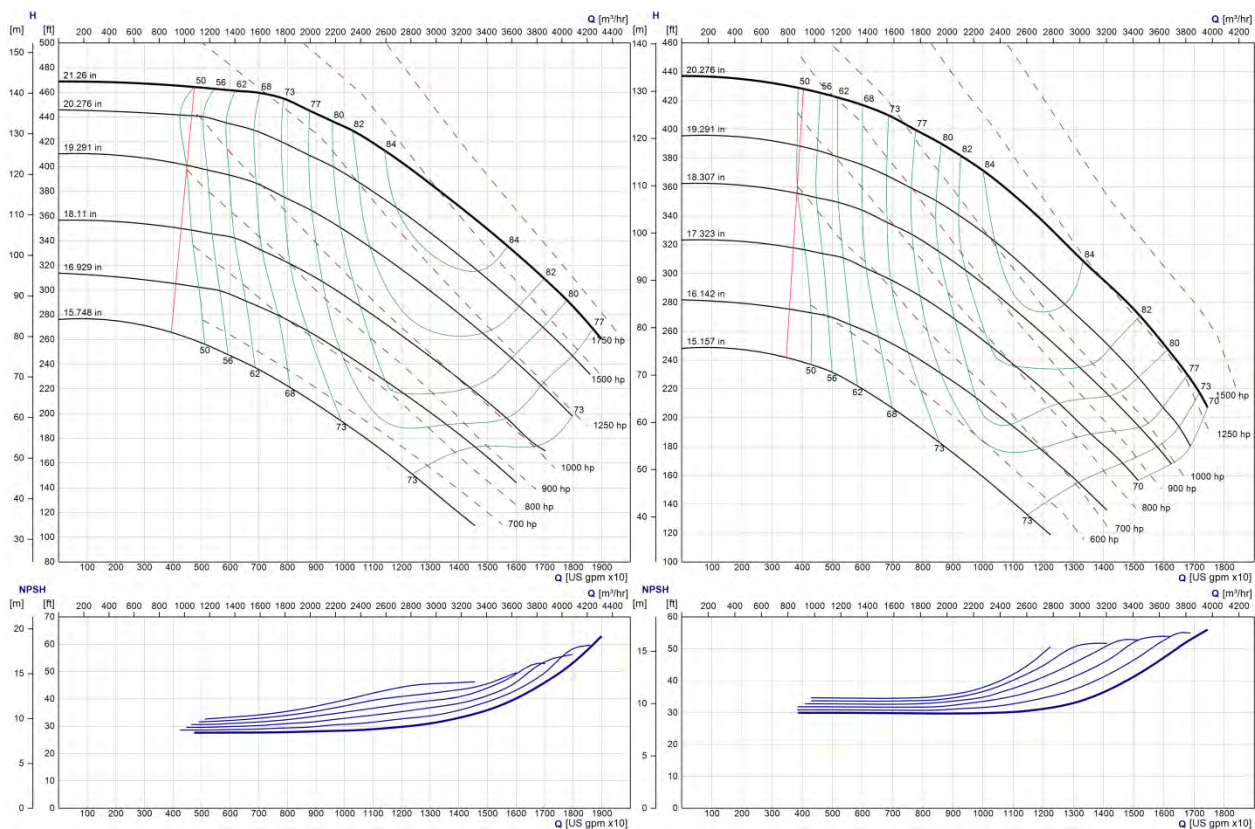
14x16x15 & 14x16x14.5 (1780 RPM)



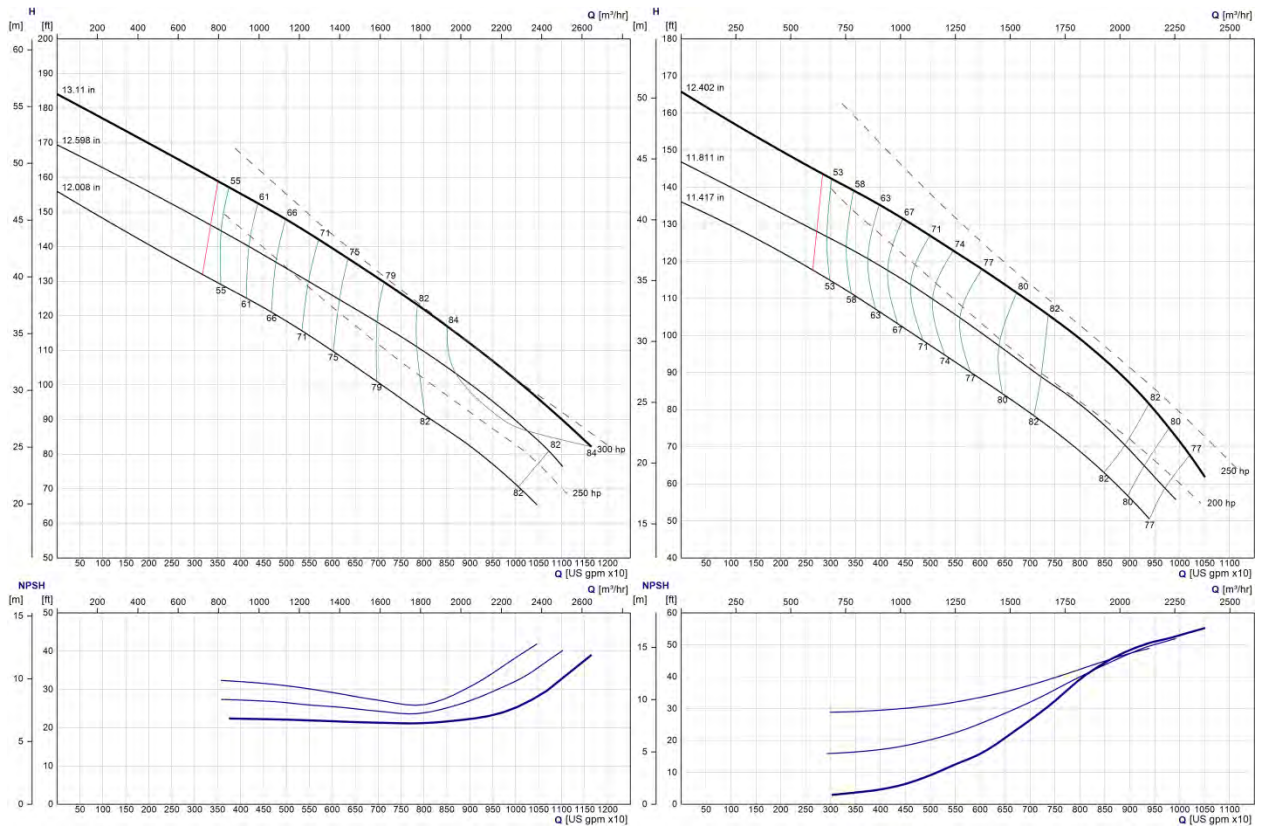
14x18x18 & 14x18x17 (1780 RPM)



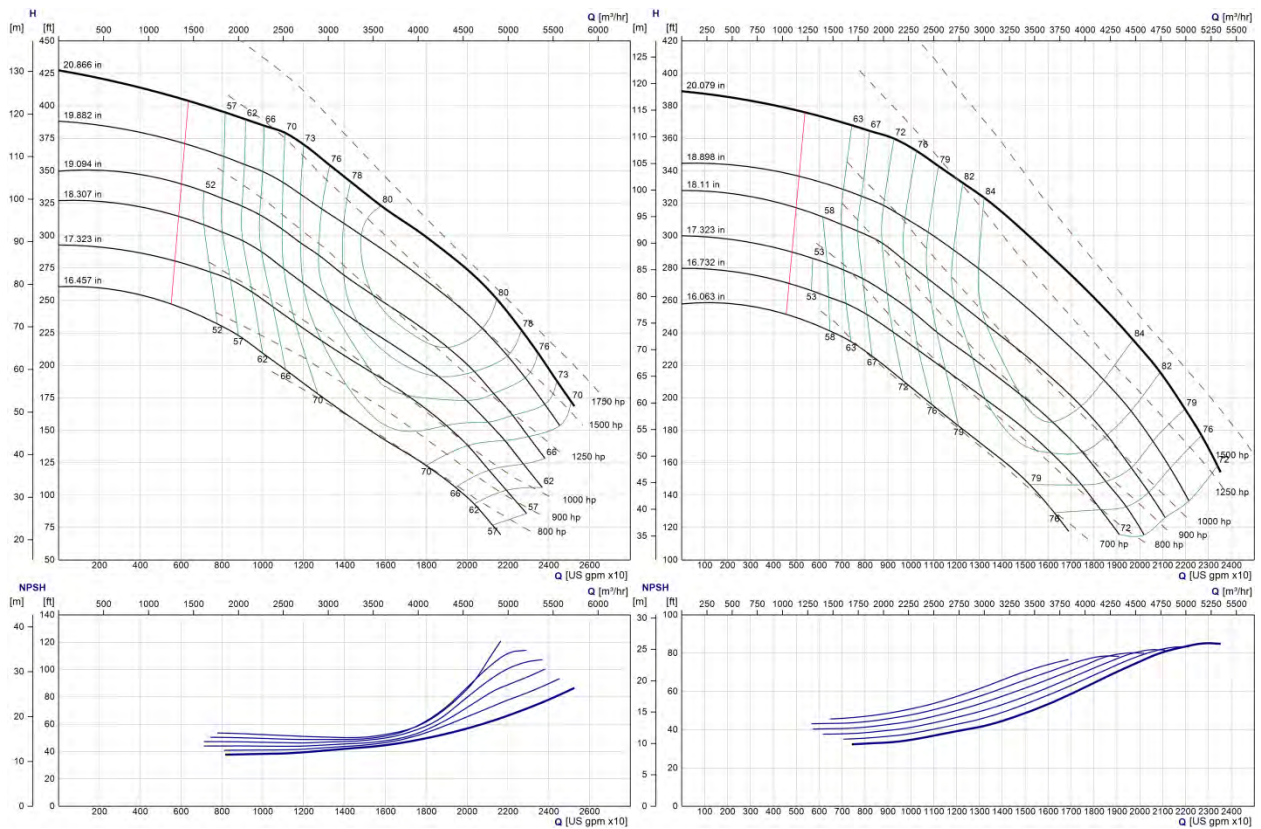
14x18x21 & 14x18x20 (1780 RPM)



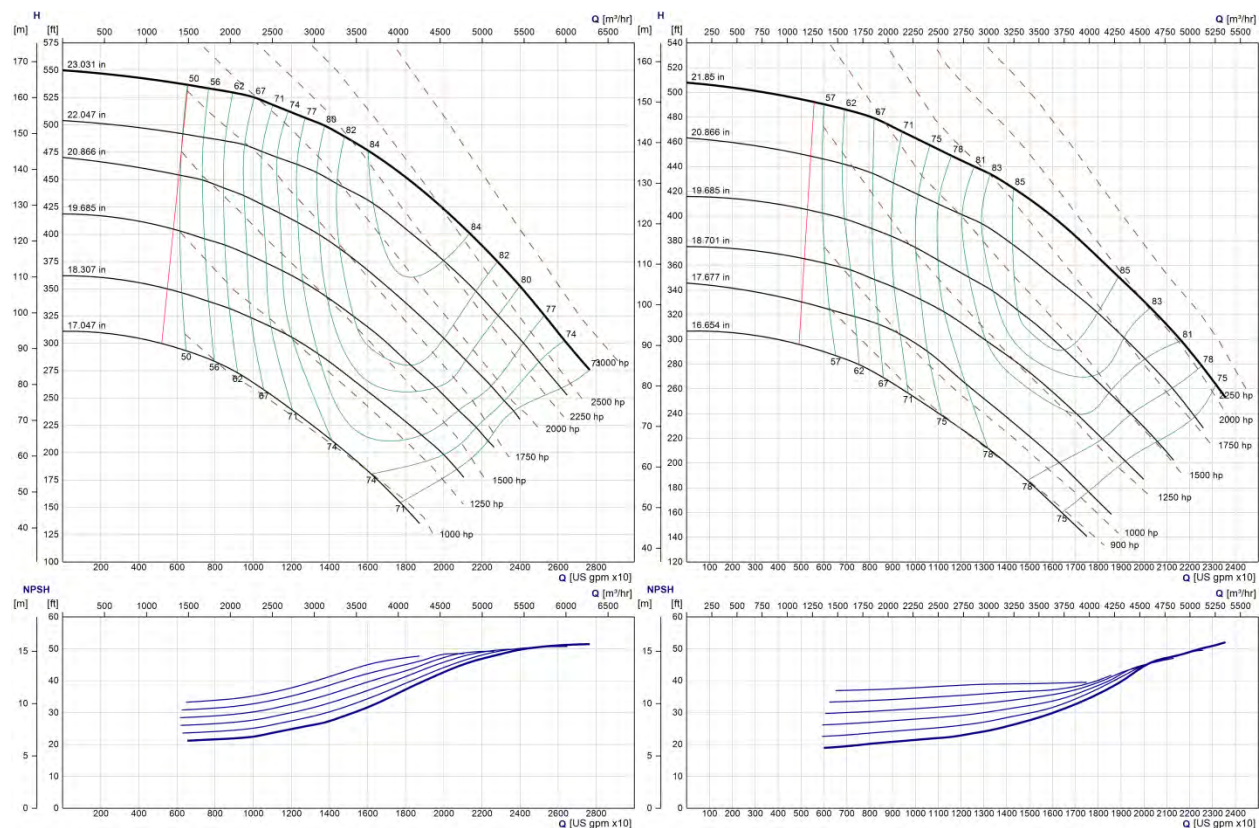
16x16x13.5 & 16x16x13 (1780 RPM)



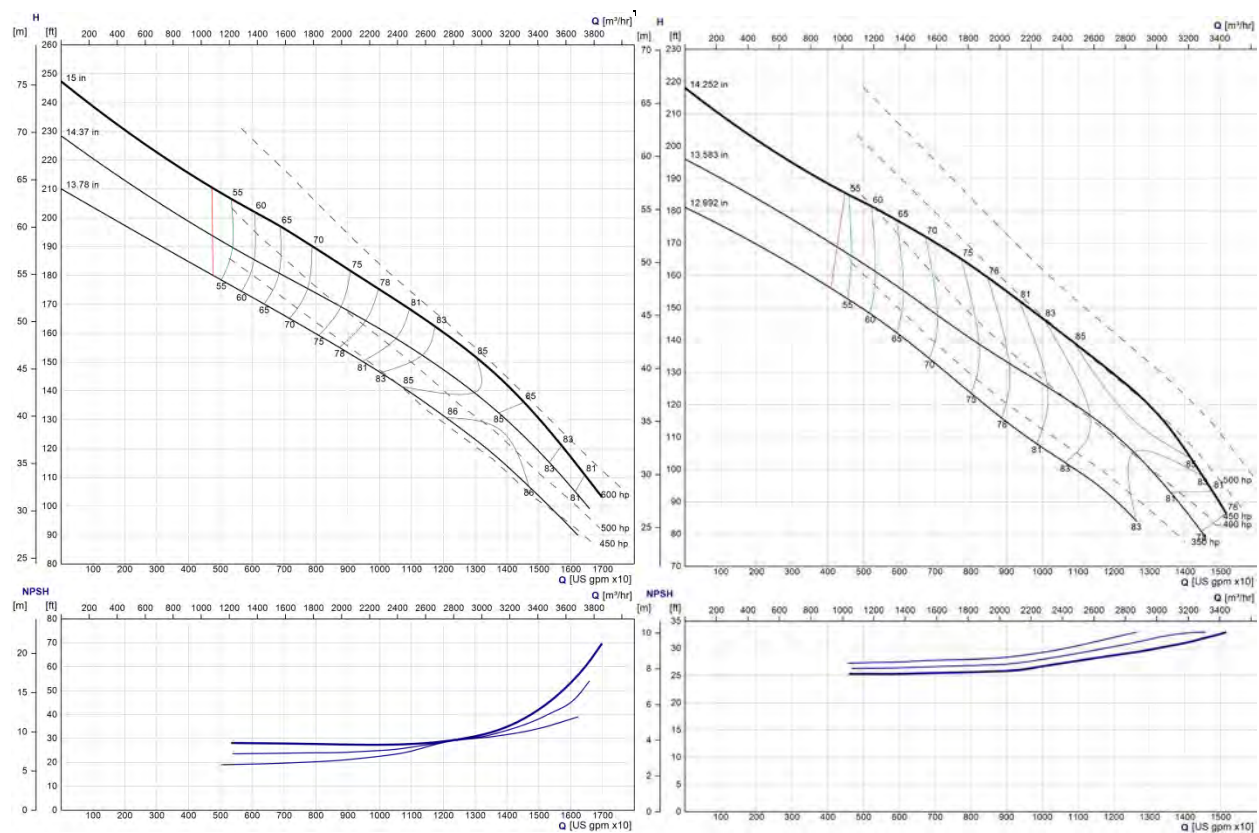
16x20x20.5 & 16x20x19.5 (1780 RPM)



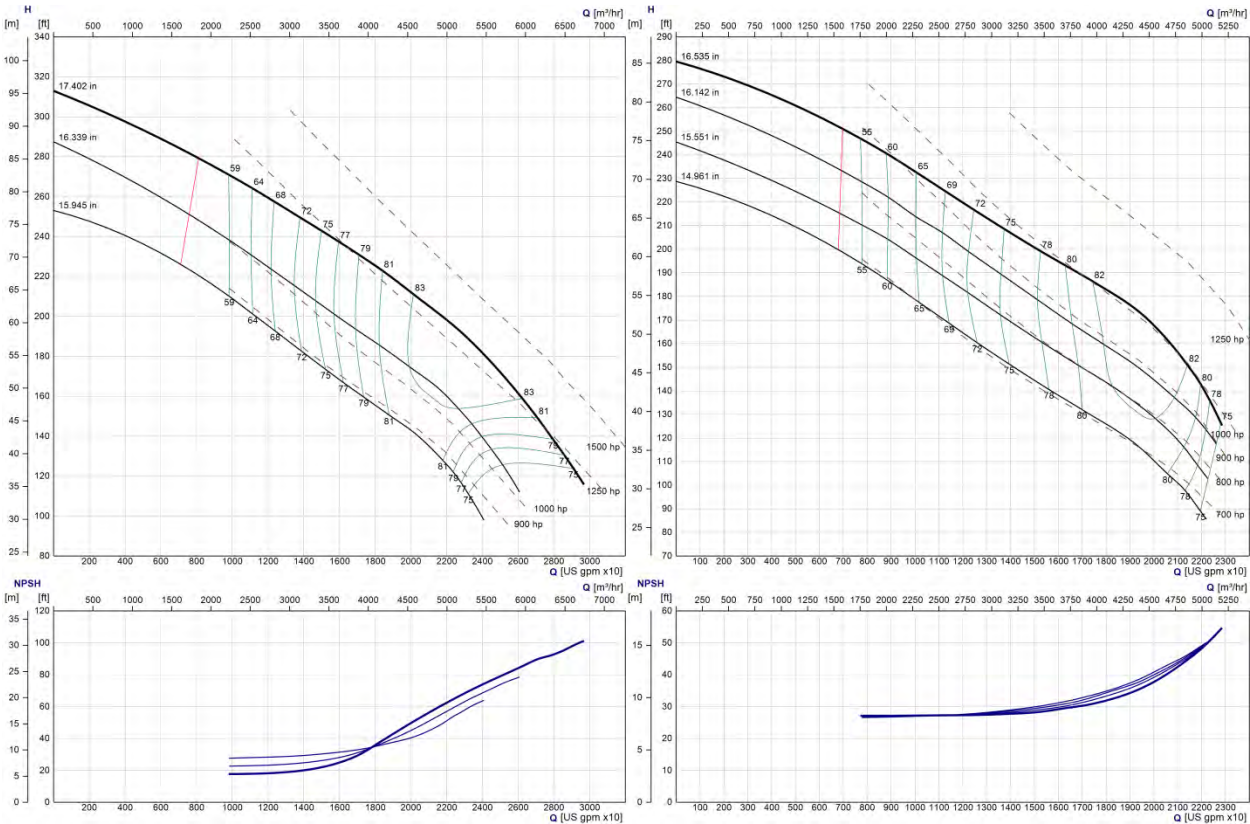
16x20x23 & 16x20x22 (1780 RPM)



18x20x15.5 & 18x20x14.5 (1780 RPM)

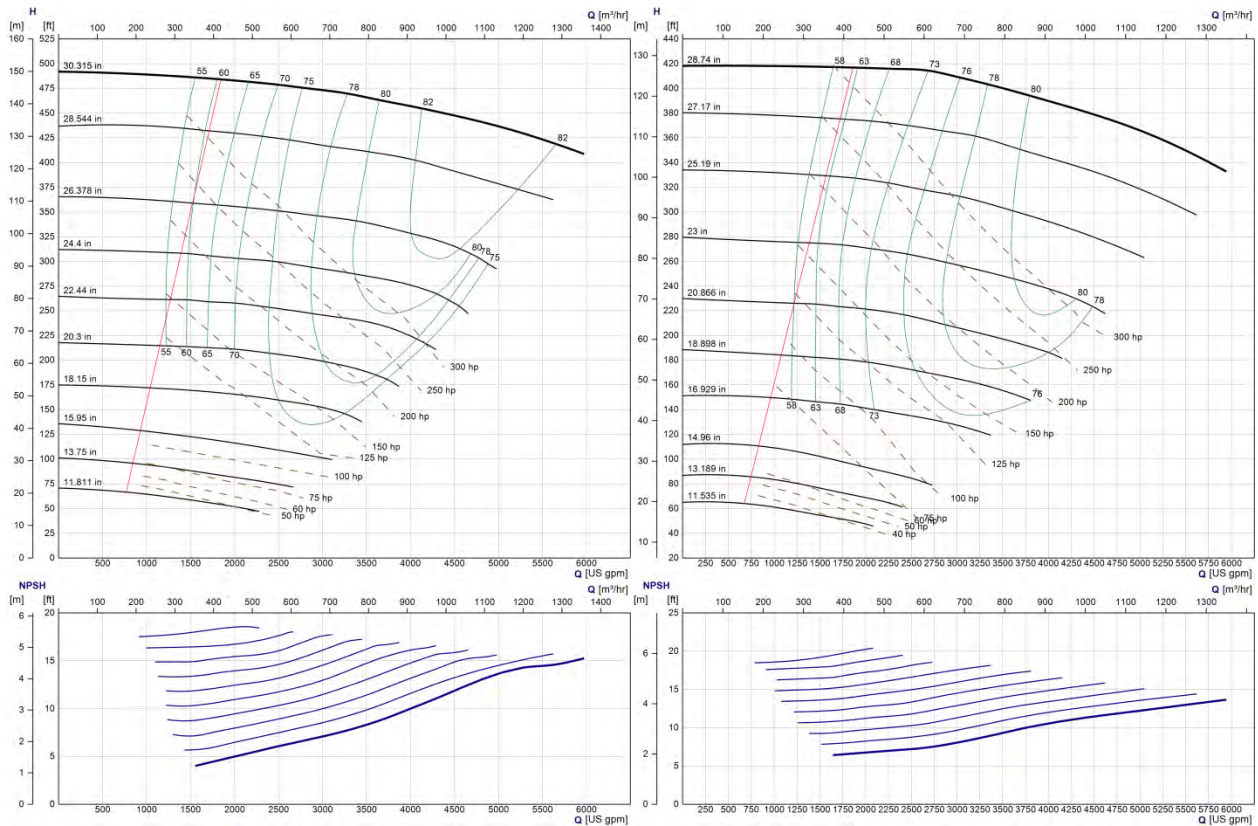


20x24x18 & 20x24x17 (1780 RPM)

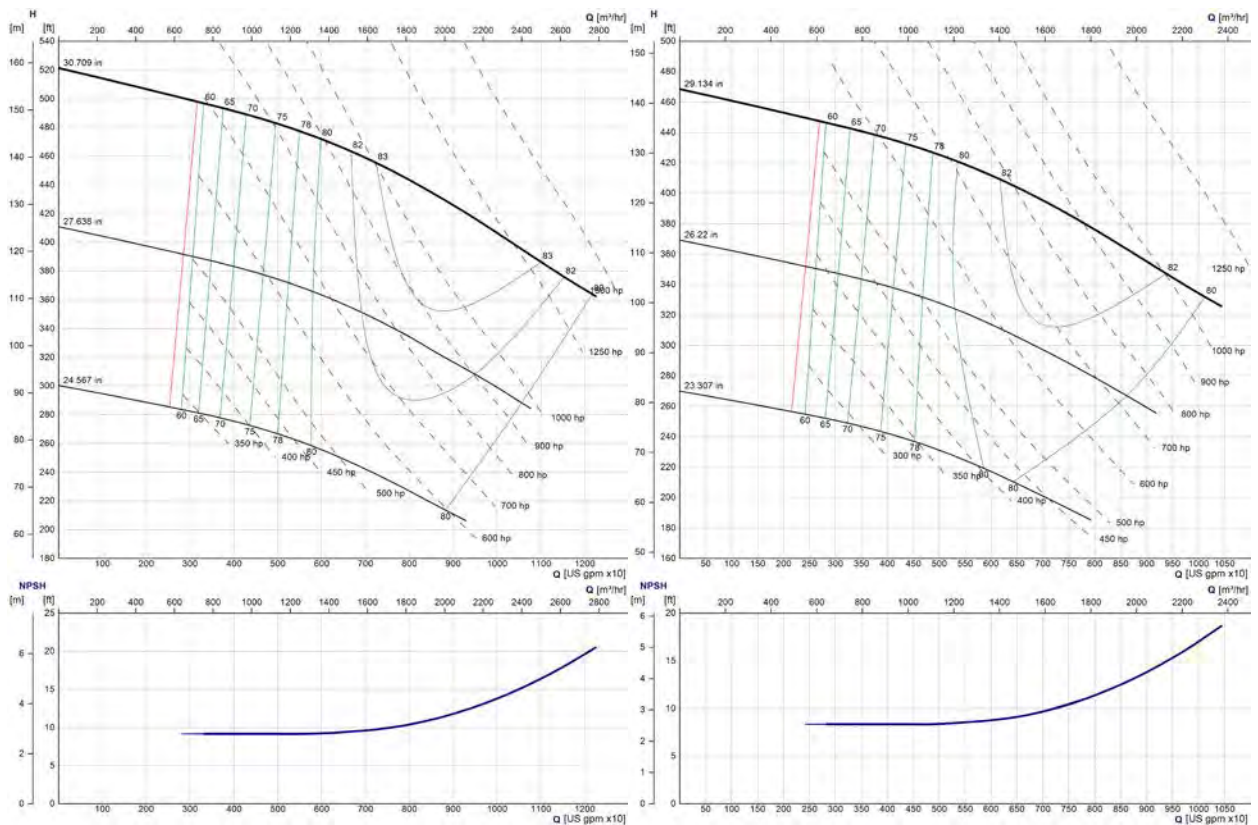


e-XC Pumps
Individual Performance Curves (60Hz)
6-Pole (1180 RPM)

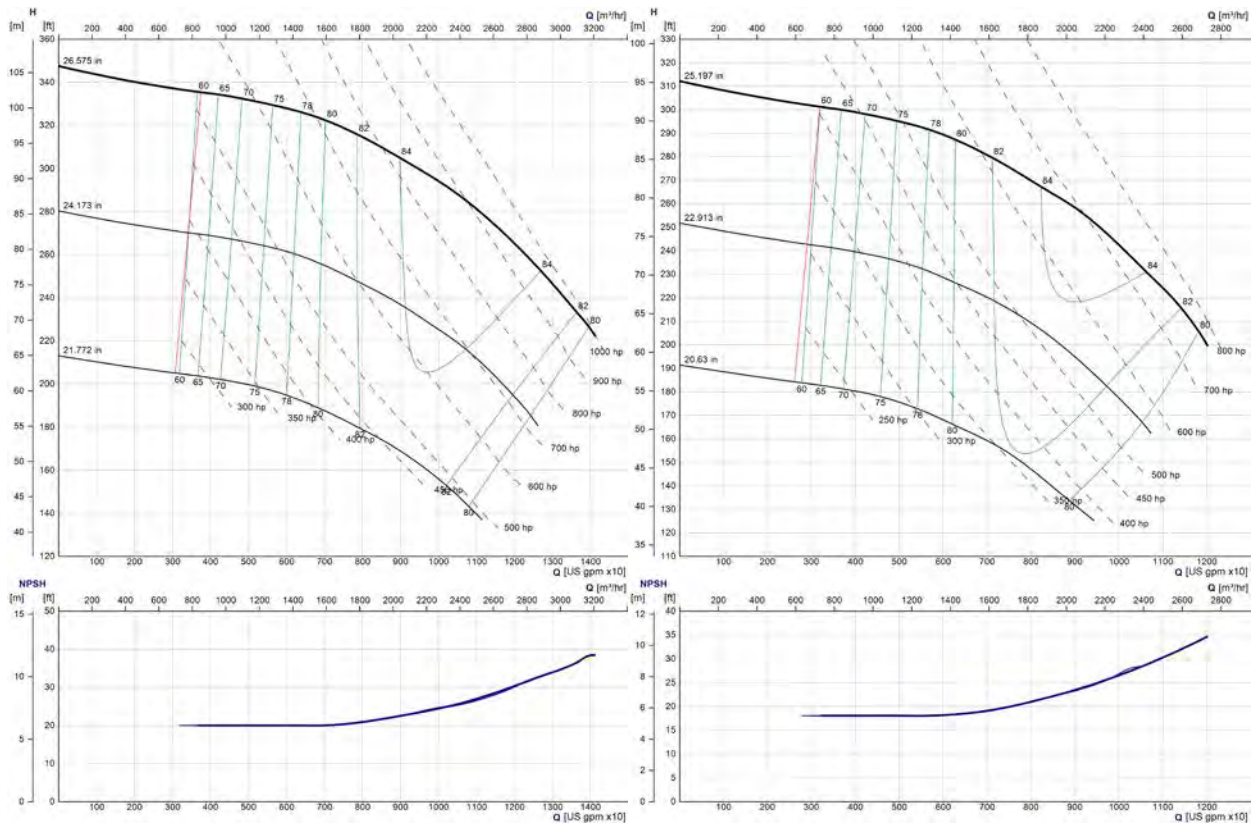
10x12x30 & 10x12x28.5 (1180 RPM)



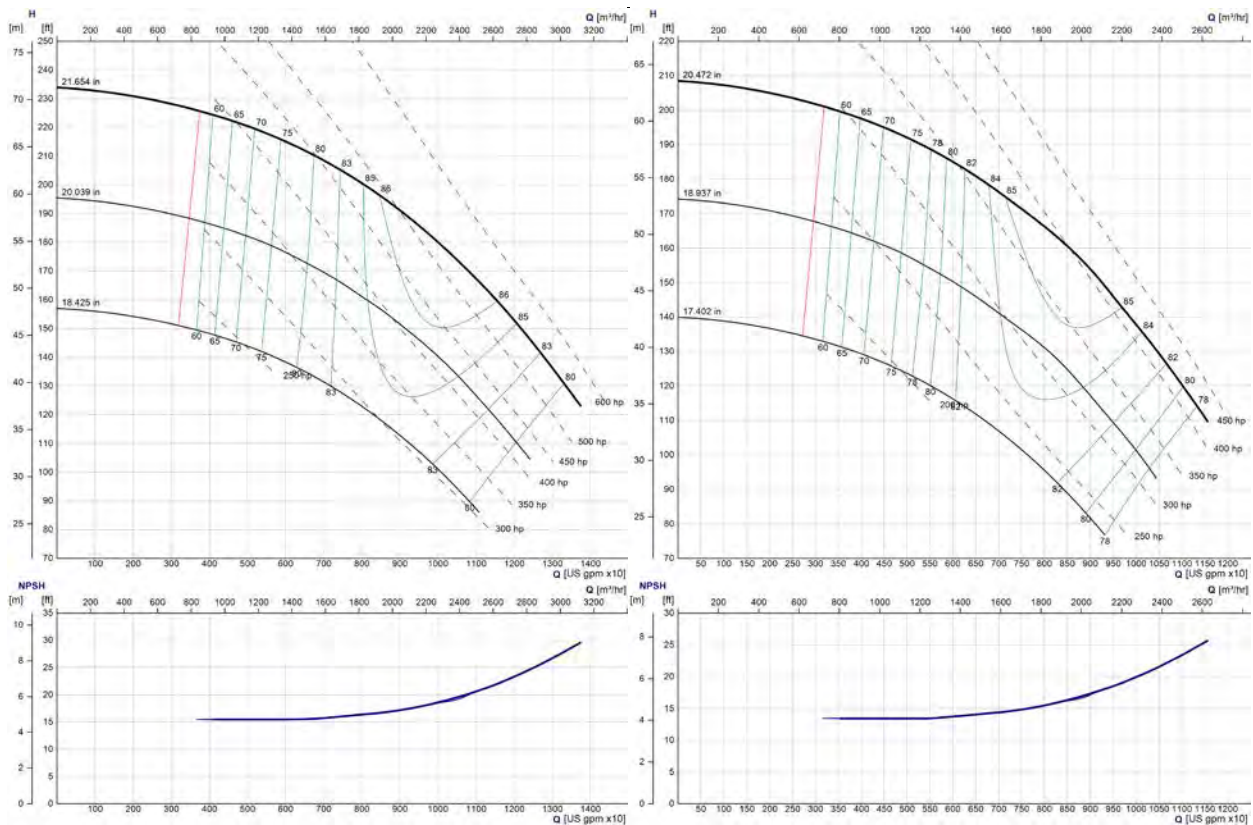
14x16x30.5 & 14x16x29 (1180 RPM)



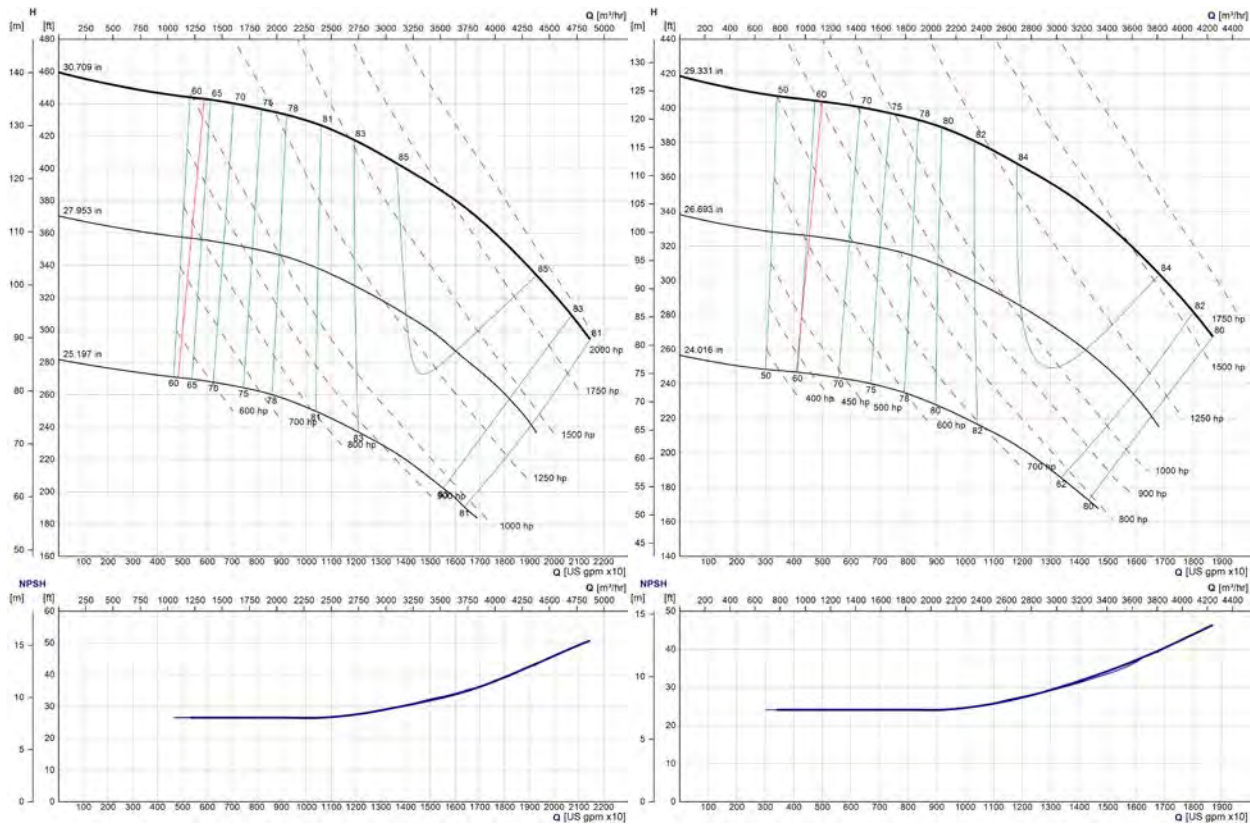
14x20x26.5 & 14x20x25.5 (1180 RPM)



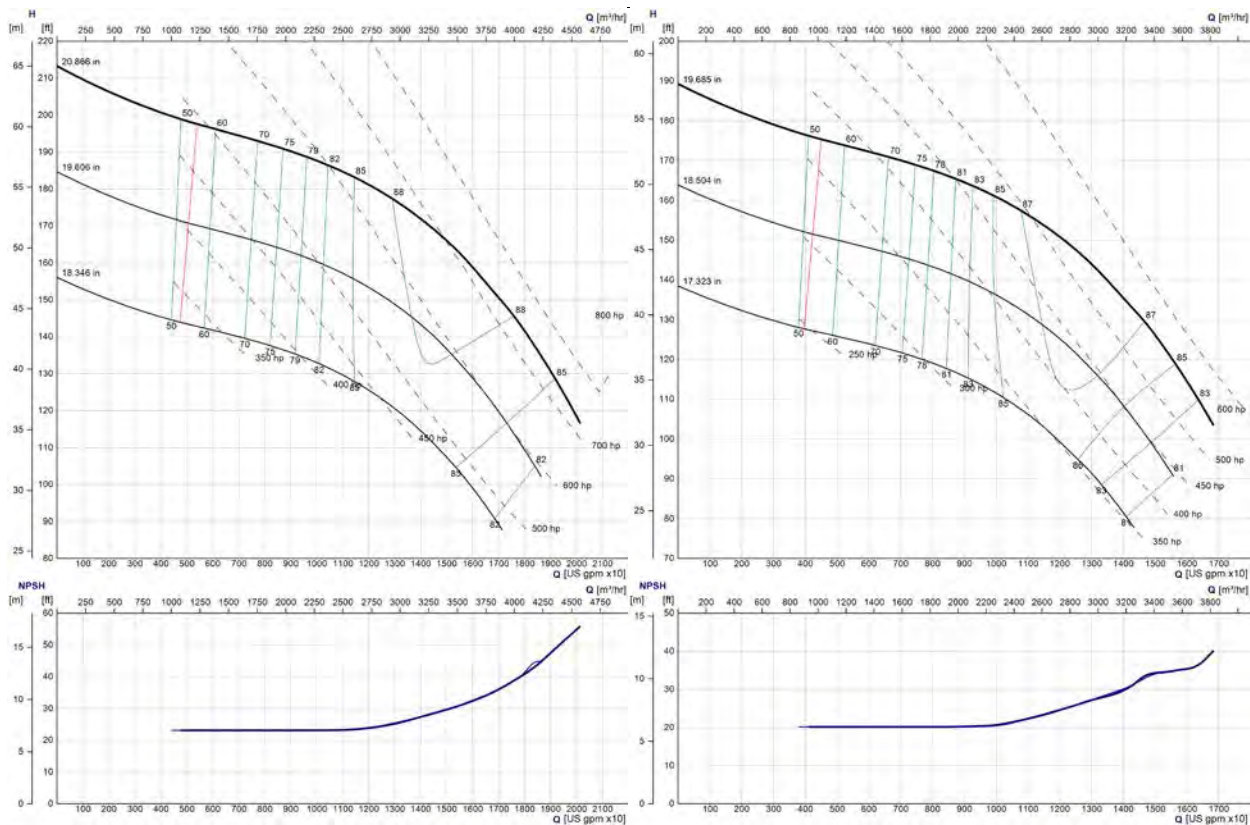
16x20x21 & 16x20x20 (1180 RPM)



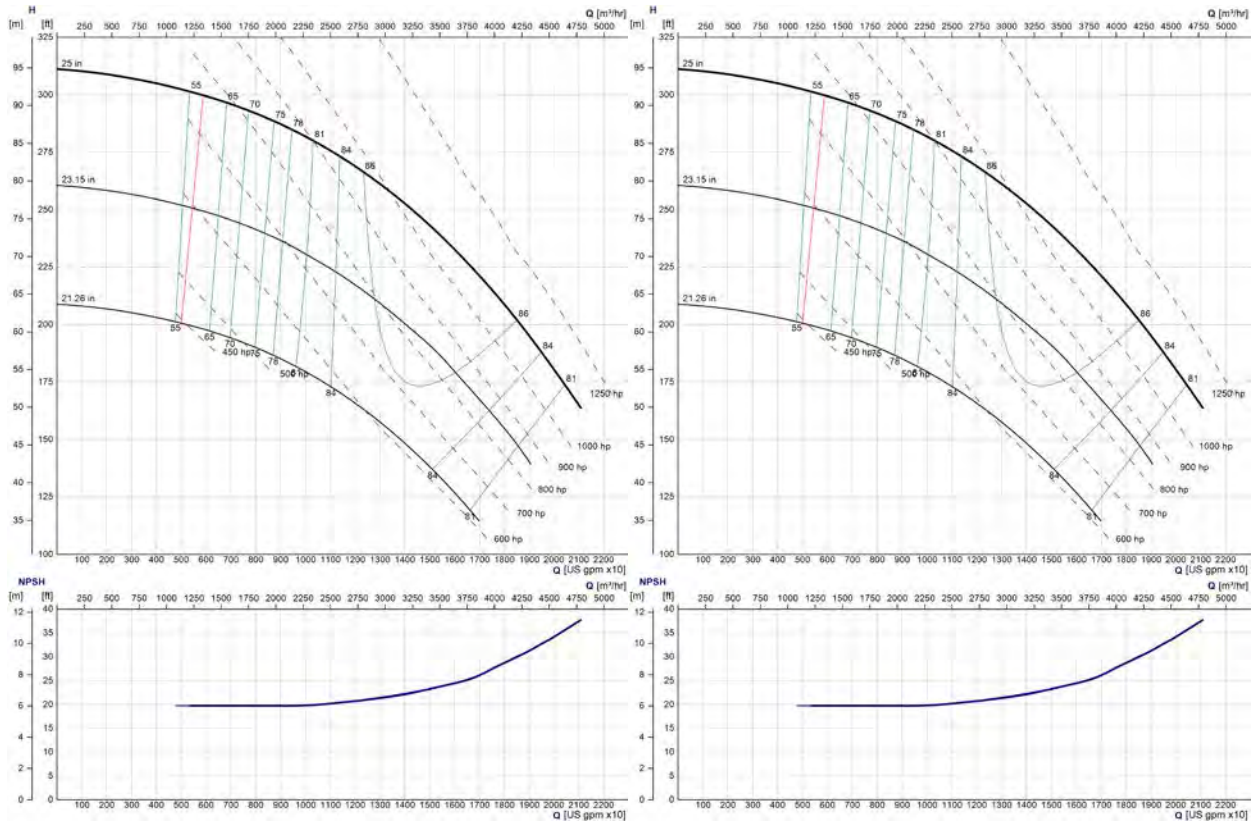
16x24x31.5 & 16x24x29.5 (1180 RPM)



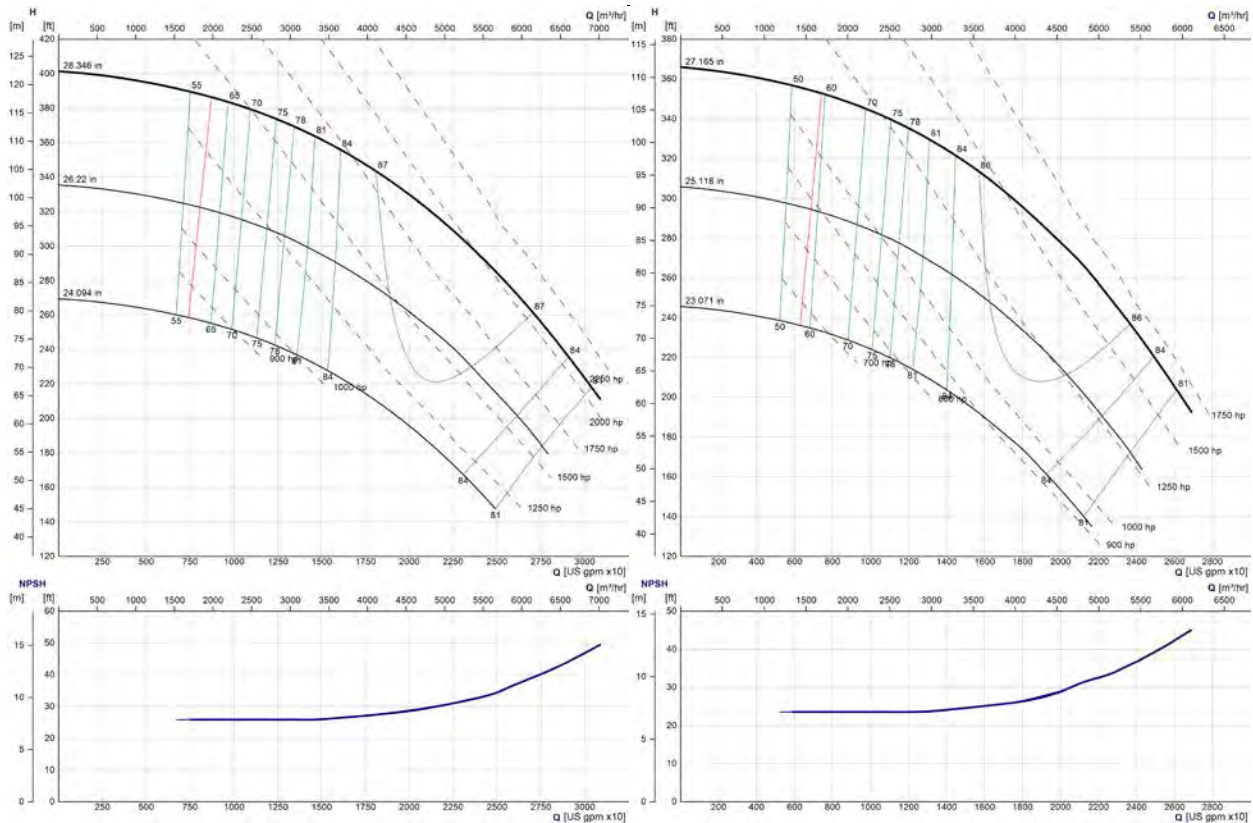
20x24x20.5 & 20x24x19.5 (1180 RPM)



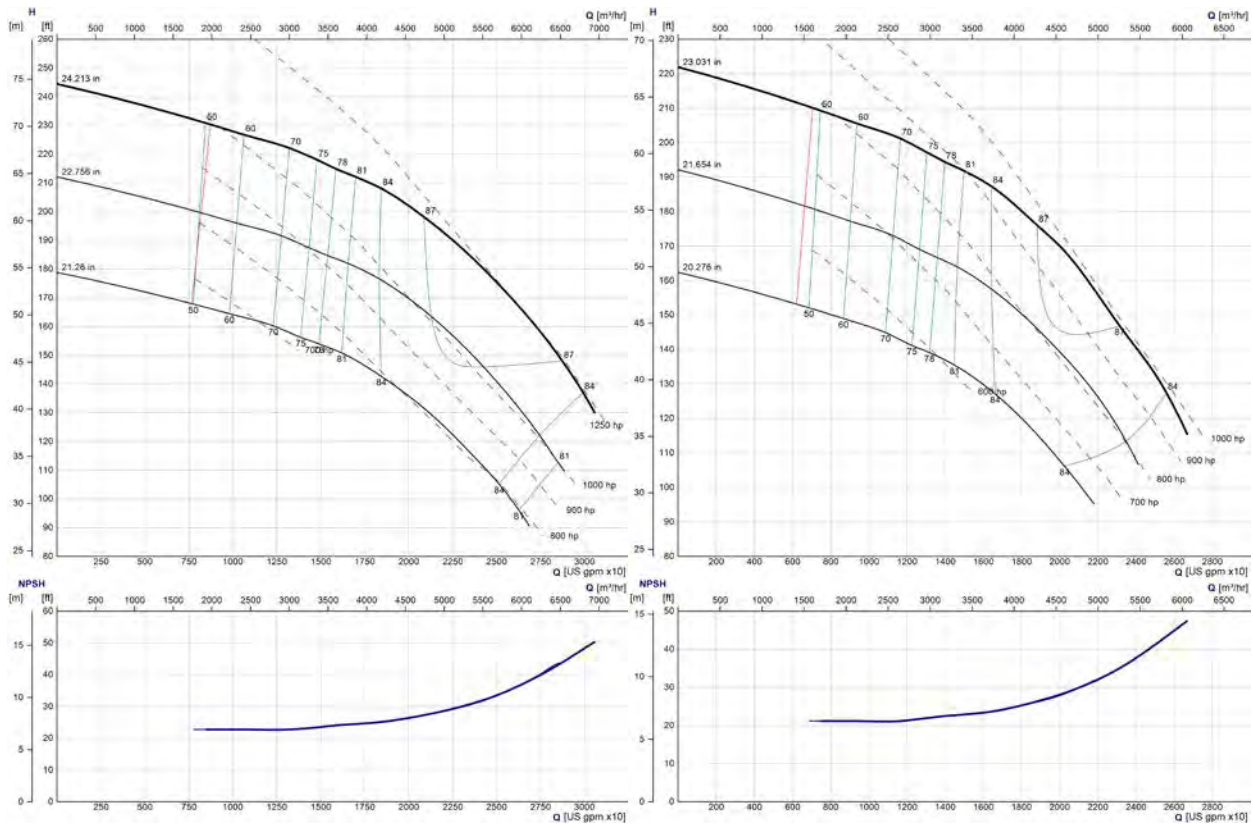
20x24x24.5 & 20x24x23.5 (1180 RPM)



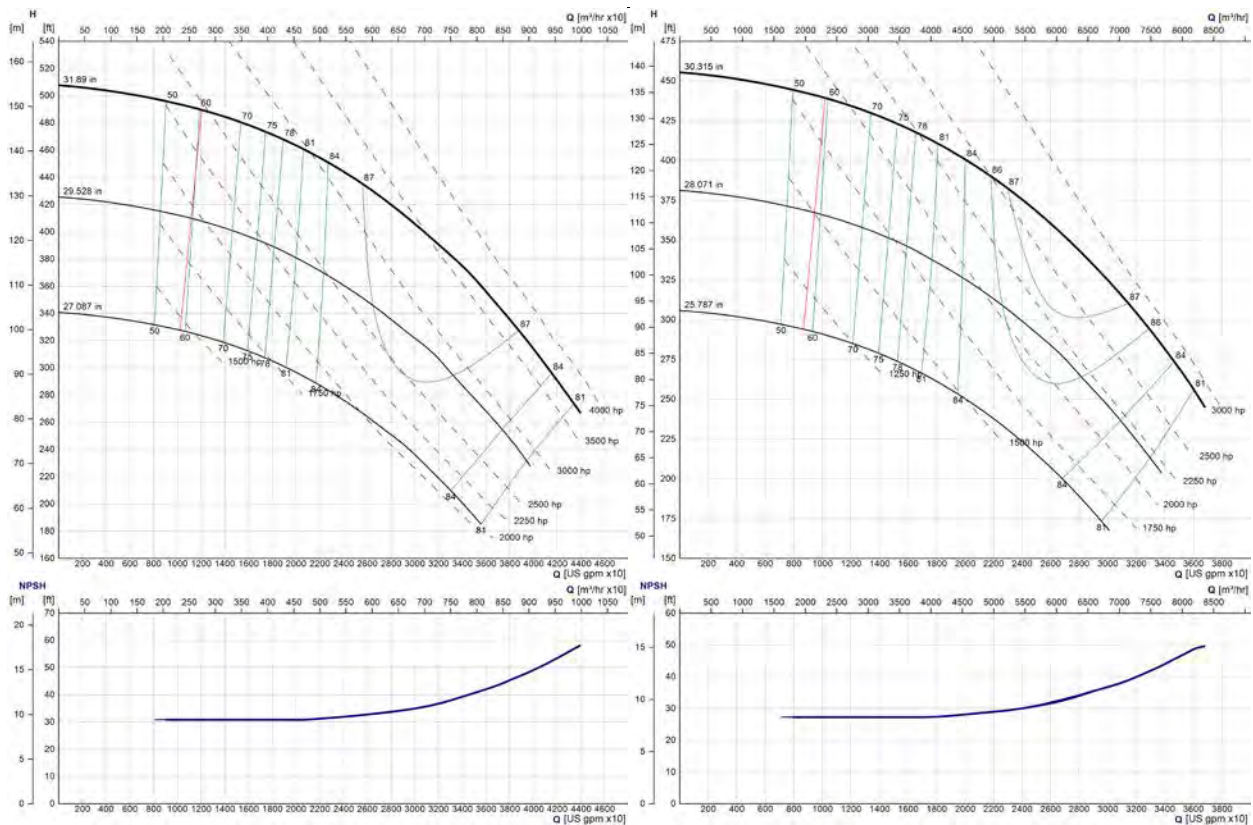
20x28x28 & 20x28x27 (1180 RPM)



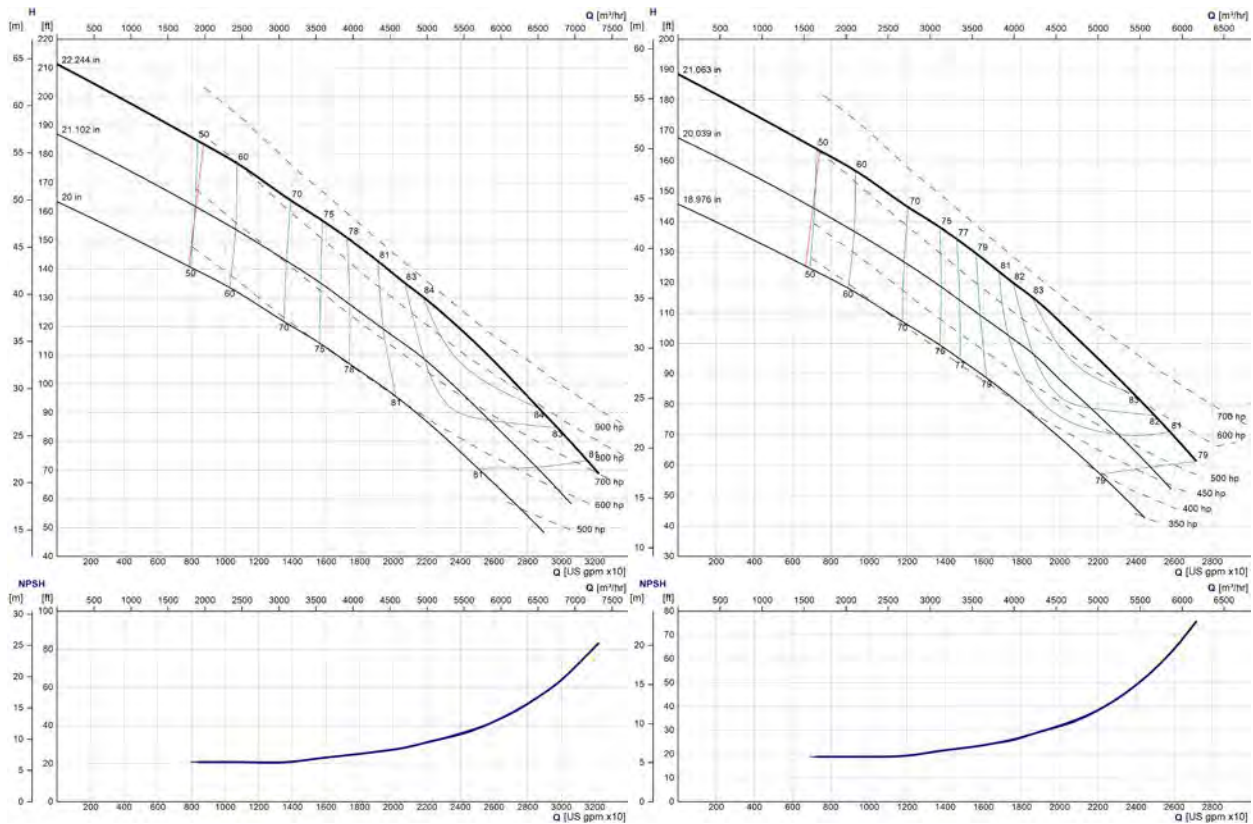
24x28x24 & 24x28x23 (1180 RPM)



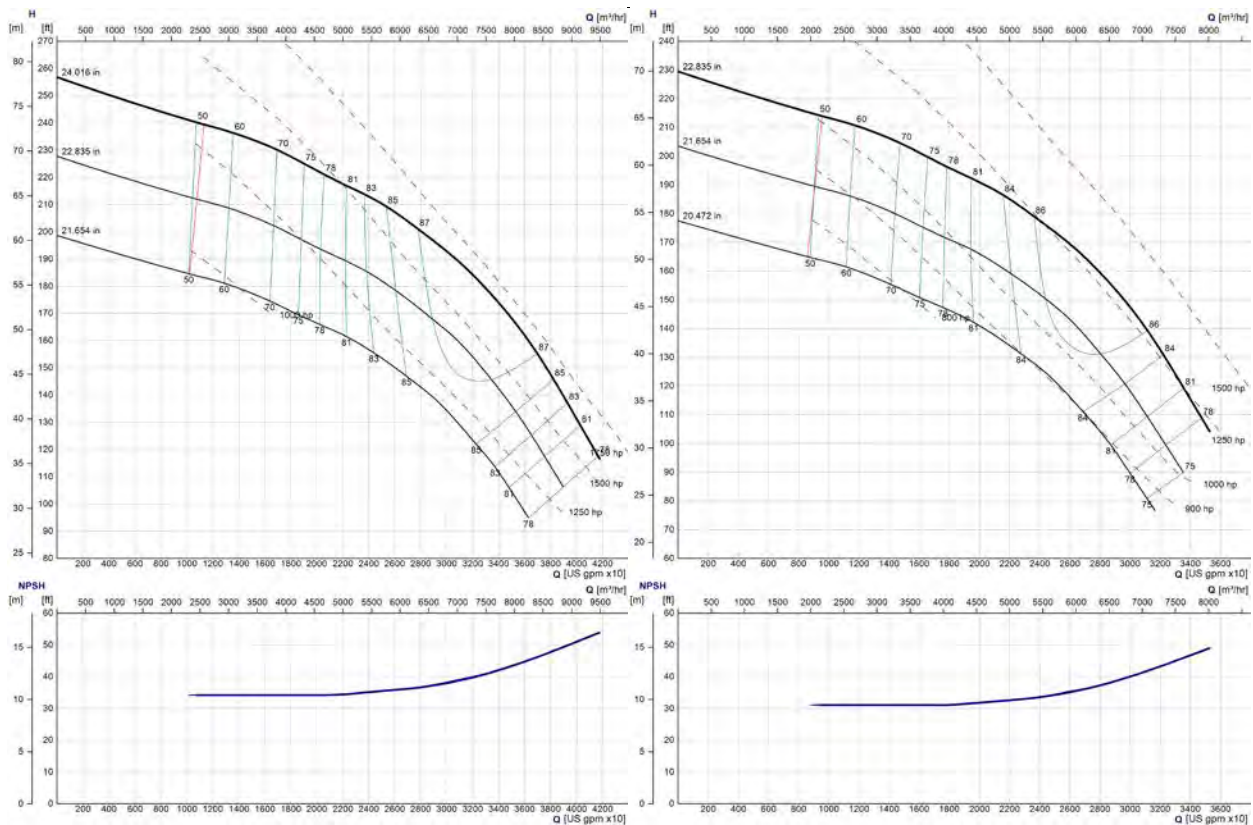
24x32x31.5 & 24x32x30 (1180 RPM)



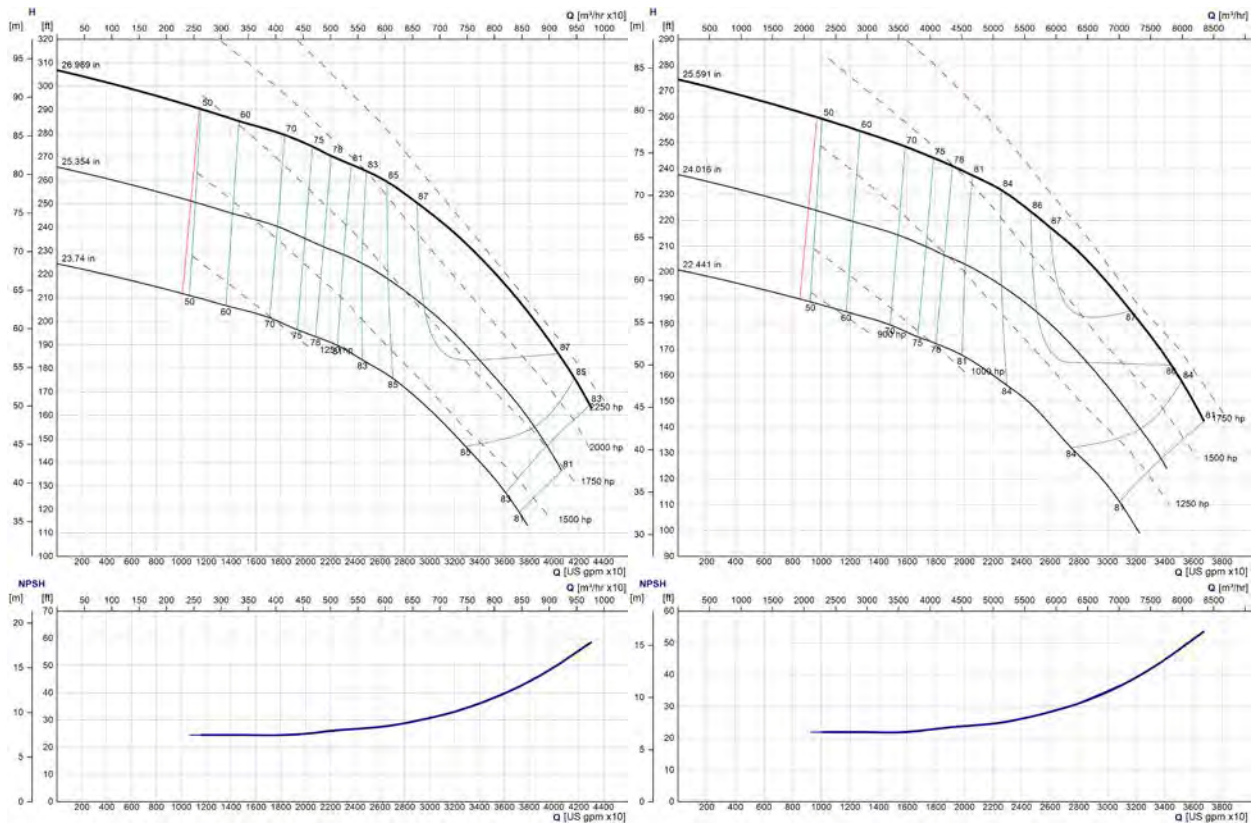
28x28x21 & 28x28x19.5 (1180 RPM)



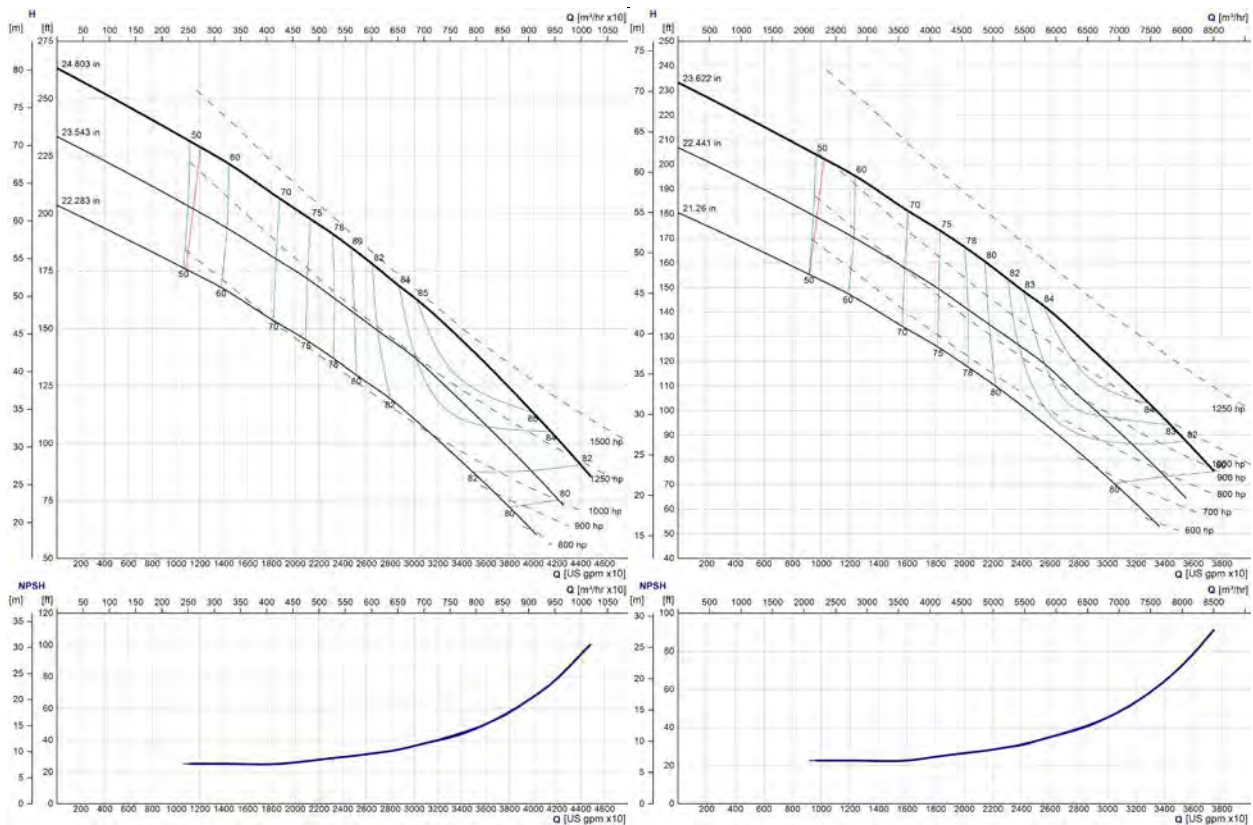
28x32x23.5 & 28x32x23 (1180 RPM)



28x32x26 & 28x32x25 (1180 RPM)

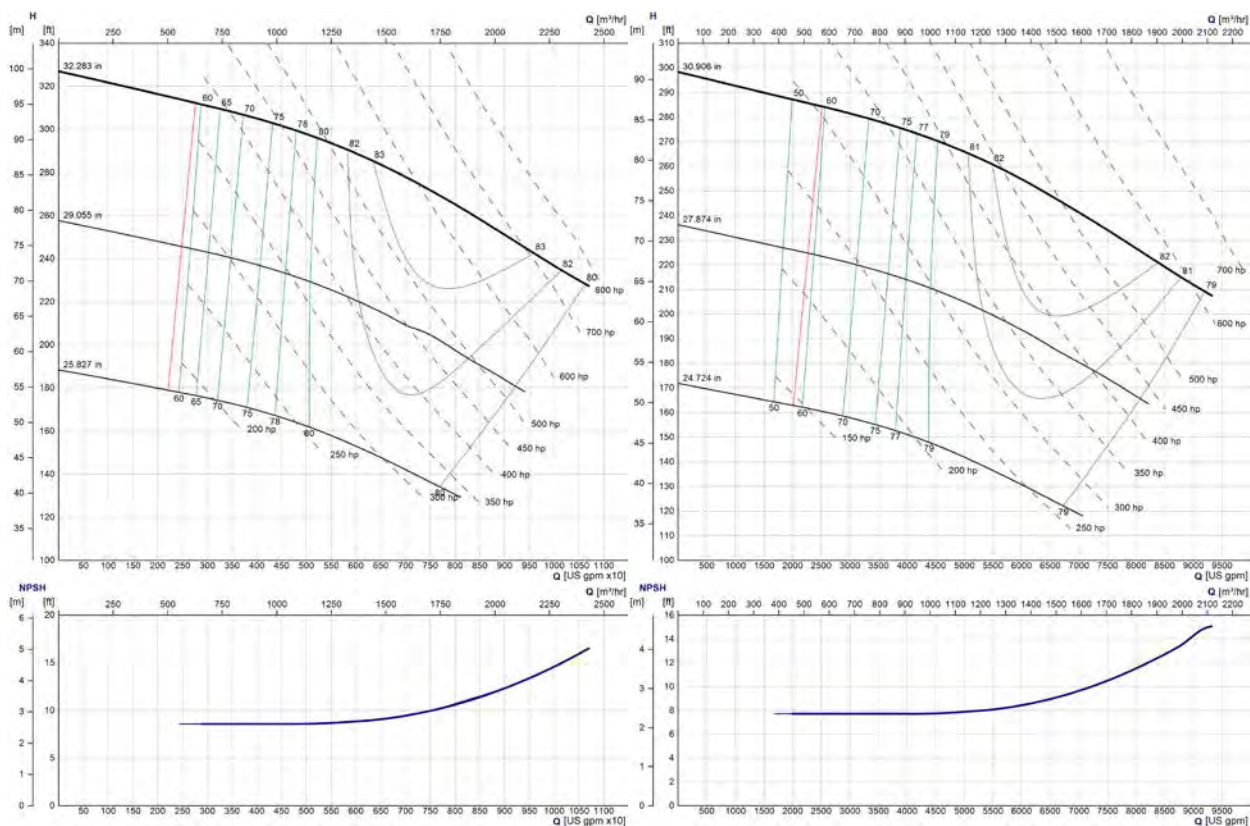


32x32x23 & 32x32x22 (1180 RPM)

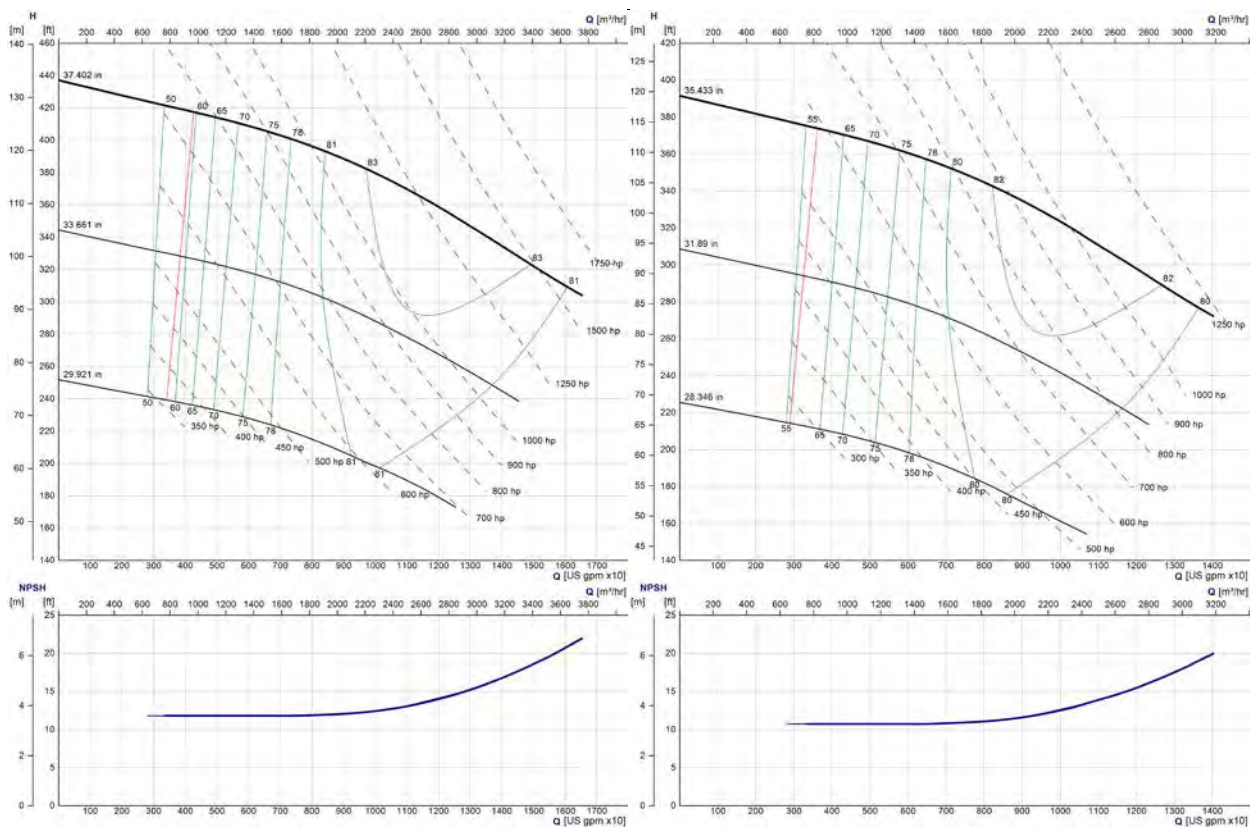


e-XC Pumps
Individual Performance Curves (60Hz)
8-Pole (890 RPM)

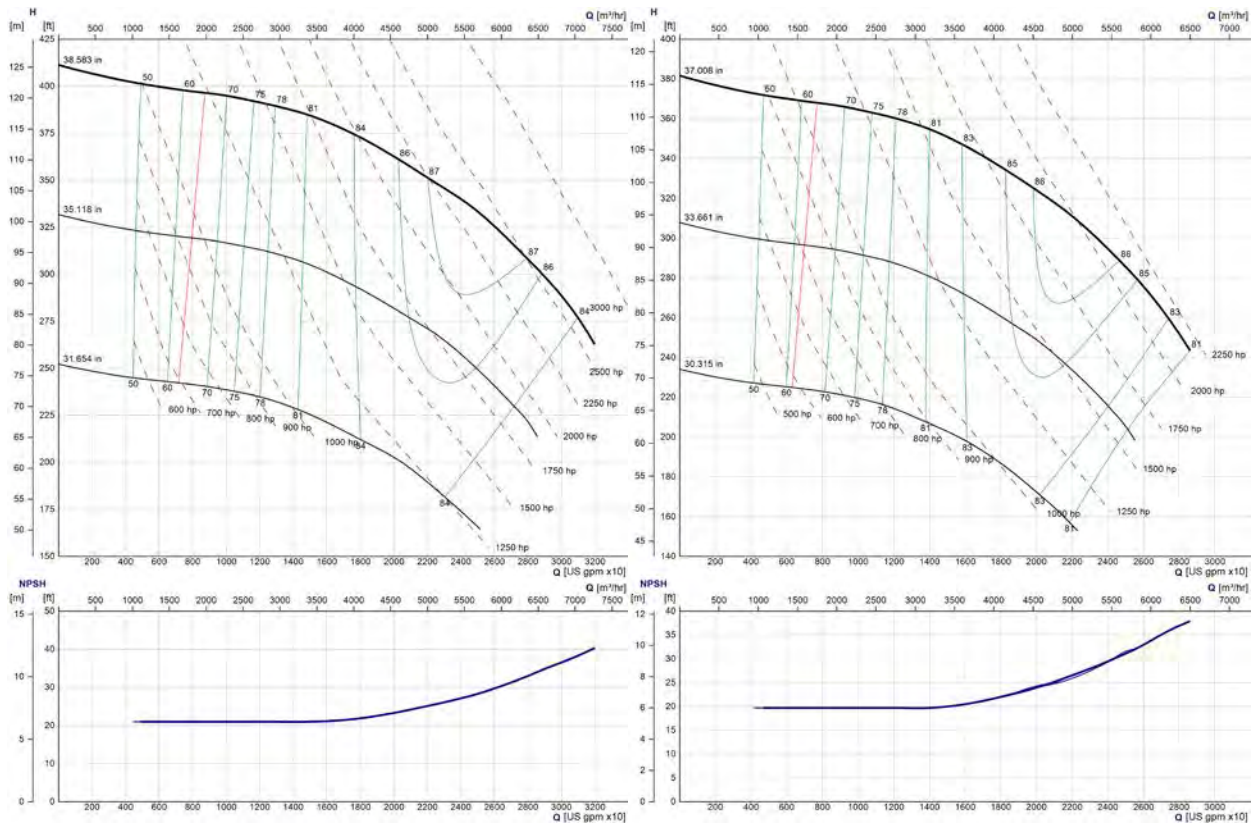
14x20x33 & 14x20x31.5 (890 RPM)



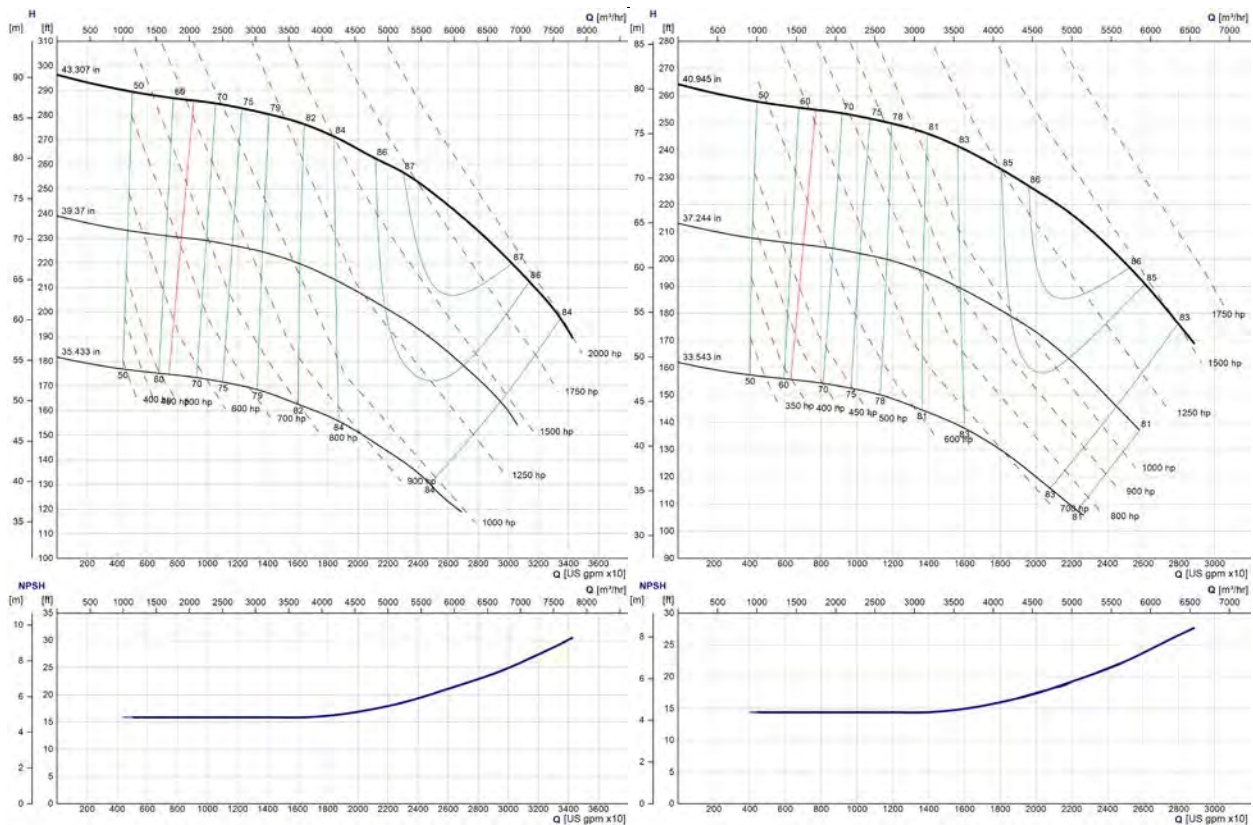
16x24x38 & 16x24x34 (890 RPM)



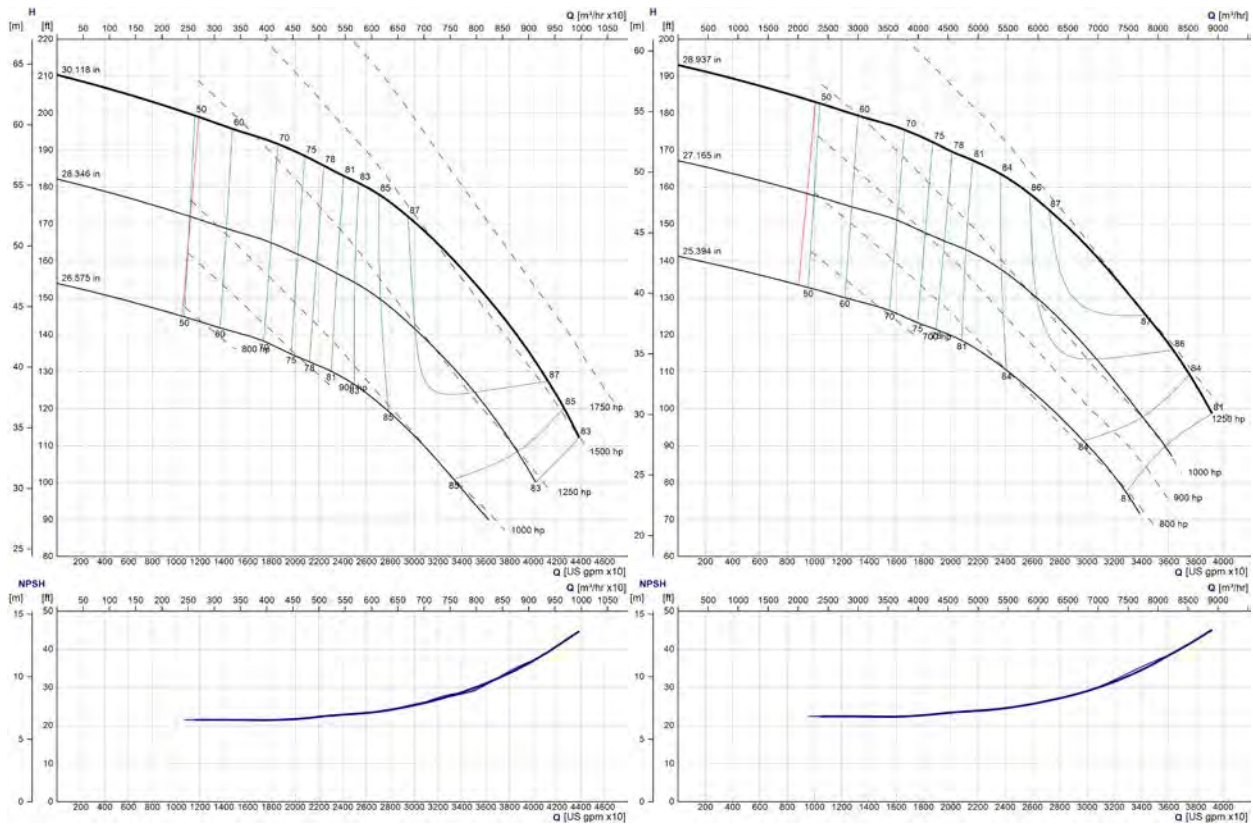
24x32x39 & 24x32x37 (890 RPM)



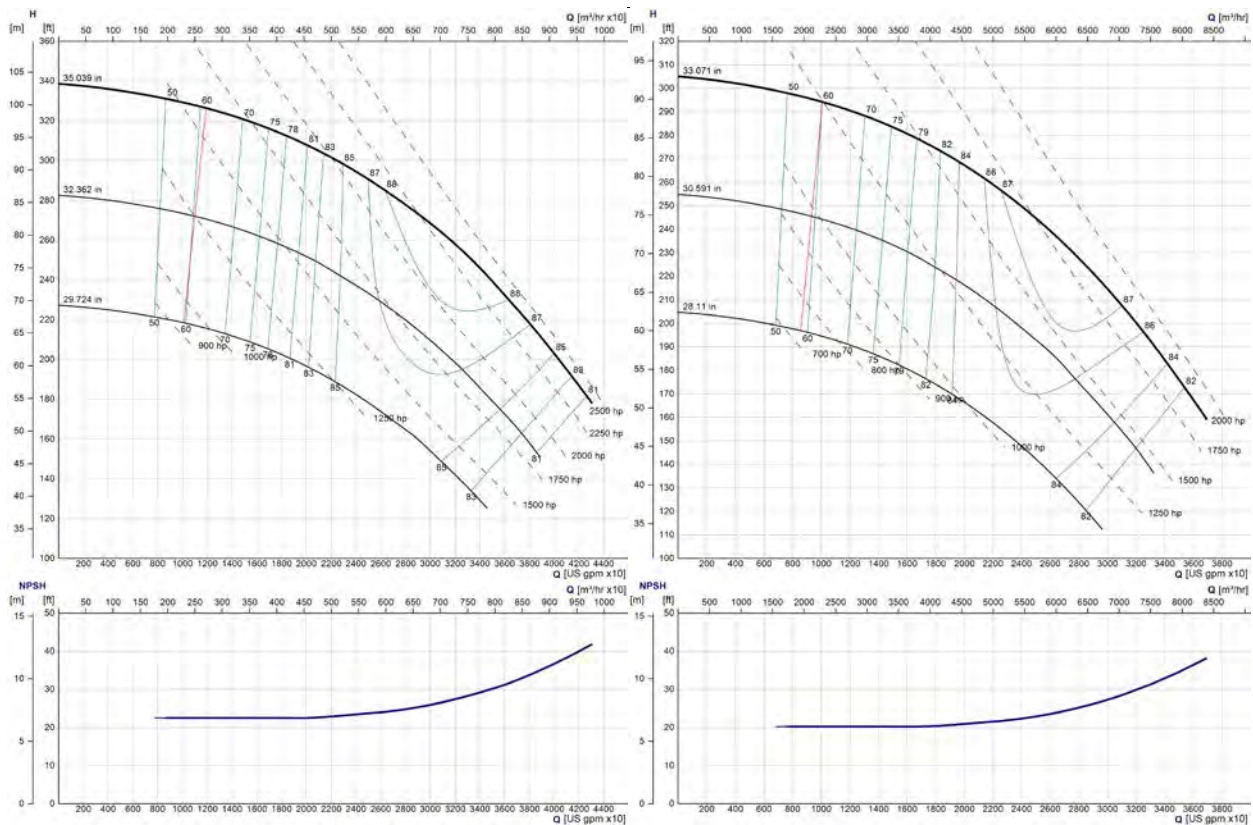
24x32x43.5 & 24x32x41.5 (890 RPM)



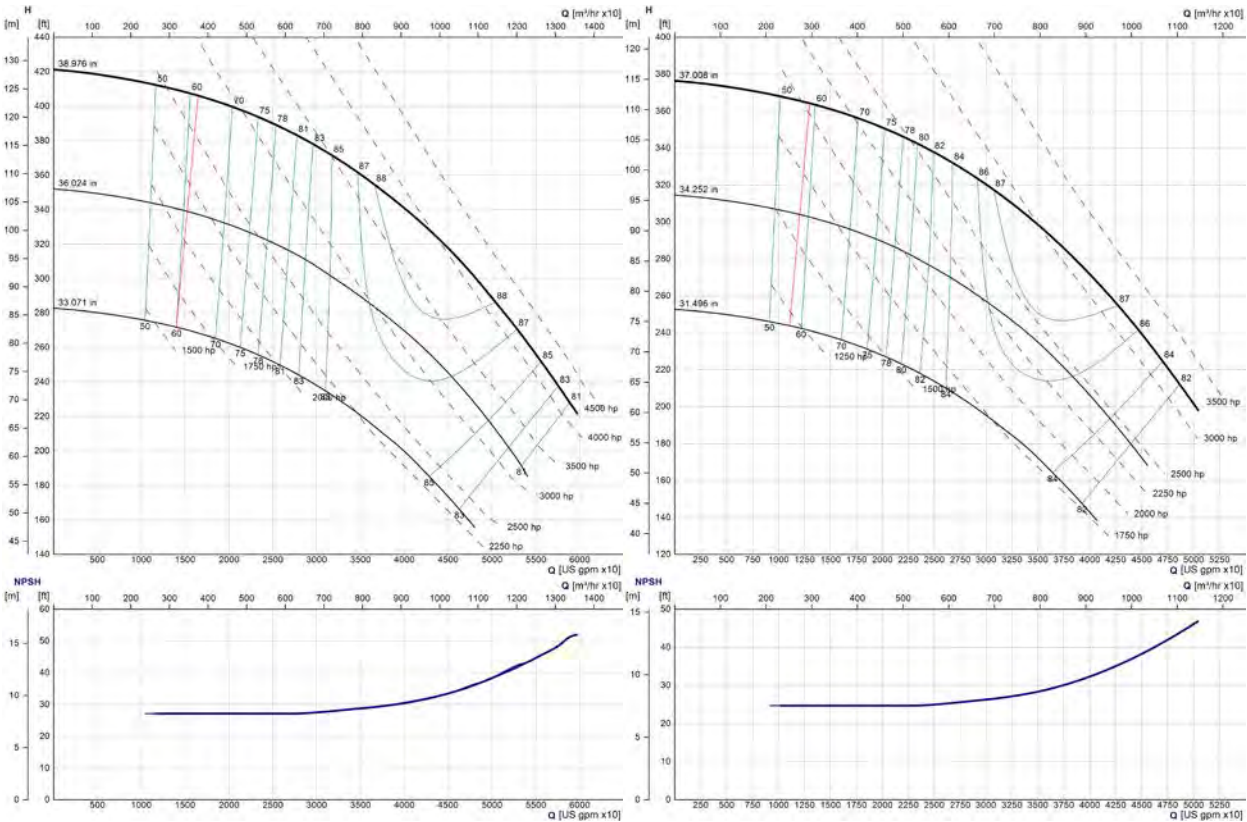
28x32x30.5 & 28x32x28.5 (890 RPM)



28x32x34 & 28x32x32.5 (890 RPM)



28x36x39 & 28x36x37 (890 RPM)



NSF/ANSI 61 & NSF/ANSI 372 – CSA Group Certified¹

1. NSF/ANSI/CAN 61 (Drinking Water System Components – Health Effects) are certification standards for products that come into contact with drinking water which ensure a product is safe for potable water applications.
 - a. CSA Group File Number: 009553_0_000
 - b. CSA Group Class Number: 6861-08
2. NSF/ANSI/CAN 372 (*Drinking Water System Components — Lead Content*) verifies the lead content within drinking water products to ensure they are safe as defined by the Safe Drinking Water Act. These requirements are based on EPA and Health Canada requirements.
 - a. CSA Group File Number: 009553_0_000
 - b. CSA Group Class Number: 6853-01

Certified Materials of Construction

Standard construction (dry shaft) cast iron, ductile iron or CF8 (316 SS) enclosed e-XC pumps, fitted with either CF8 (304 SS) or CF8M (316 SS) impeller and impeller wear rings, and bronze or 2205 (duplex) SS casing wear rings are certified to both NSF/ANSI/CAN 61 and 372 standards. Standard construction pumps are certified for use with either MR3 (C/SiC/EPDM or SiC/SiC/EPDM) metal pusher and MR4 (C/SiC/EPDM) rubber bellow mechanical seals.

- c. Optional wet shaft construction e-XC pumps with either 420 SS shaft with the same casing, impeller assembly, and mechanical seal configurations listed above are also certified to NSF/ANSI/CAN 61 and 372 standards.
- d. Although not required, an optional epoxy coating (Epoxyline 22) is available.

¹For the official certification listing, please visit www.csagroup.org and enter the file and class numbers on the CSA Group Product Listing page.

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com



Xylem Inc.
Phone: (866) 673-0428
Fax: (888) 322-5877
www.xyleminc.com

All other trademarks or registered trademarks are property of their respective owners.
© 2021 Xylem Inc. BeXC R3 July 2021