



EBARA

Ahead Beyond

EBARA NFPA20 UL/FM* HSC FIRE PUMPS

PUMPSET DATA INFORMATIONS BOOK

**CNPAX SINGLE/MULTI STAGE
ELECTRIC MOTOR & DIESEL ENGIN DRIVEN
FIRE-FIGHTING PUMP SYSTEM**



* FM certification is expected to be obtained in the first half of 2025

Over a century of challenges and continuous innovation.

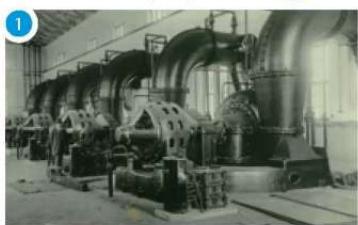
With the goal of providing excellent products based on the spiral pump theory of world-renowned Dr. Ariya Inokutty, EBARA's founder—Issey Hatakeyama—founded the Inokutty Type Machinery Office in 1912.

In 1920, the company's name was changed, and EBARA CORPORATION was born.

Since then, the EBARA Group has dedicated itself to discovering new ways to create a better world for the future.

1910s

- 1912 Inokutty Type Machinery Office founded
- 1915 Order for record-breaking large-scale pump at Tokyo 's Asakusa Tamachi pump station ①



Tokyo's Asakusa Tamachi pump station

1920s

- 1920 EBARA CORPORATION established
- 1921 First blower (a centrifugal blower) manufactured
- 1924 Japan 's first axial pump manufactured
- 1925 EBARA lends its talents to domestic production of water pumps ② ③



Axial pump
(400 mm diameter)



Water pumps

1930s

- 1930 Japan 's first centrifugal chiller produced ④
- 1931 Japan 's first quick water filtration device produced



Centrifugal chillers

1910

1920

1930

1940

1950

1960

1970

1980

1950s

- 1955 Standard pump business begins following standardization and mass production of small size pumps

1960s

- 1961 Entered the waste treatment business with delivery of the first stoker-type waste incinerator
- 1965 Fujisawa Plant opened as the first facility in Japan to mass-produce standard pumps ⑤



Fujisawa Plant upon completion

1970s

- 1975 Sodegaura Plant is established with the goal of expanding EBARA 's compressor and turbine business
- 1978 First fluidized-bed incinerator designed for municipal waste delivered
- 1979 Seawater desalination plant pump delivered to Jubail, Saudi Arabia ⑥



Seawater desalination pump for Saudi Arabia

1980s

- 1985 New projects initiated in the semiconductor industry with the start of the precision machinery business
- 1986 First roots-type dry vacuum pumps delivered
- 1989 First internally circulating fluidized-bed boiler (ICFB) delivered



HISTORY OF EBARA

1990s

- 1990 First bump plating device delivered
- 1992 First CMP system delivered

2000s

- 2008 Number of cumulative standard pumps produced at the Fujisawa Plant reaches 15 million
- 2009 World's most advanced ultra-high-efficiency centrifugal chillers released 



Centrifugal chillers

1990

2000

2010

Ahead > Beyond

2010s

- 2010 Futtsu Plant established, taking over transferred functions of the Haneda Plant
- 2012 100th anniversary celebration
- 2014 New CMP system announced
- 2015 One of the world's largest high-pressure pumps delivered to a seawater desalination plant in San Diego, USA
- 2016 New dry vacuum pump for the semiconductor industry launched
- 2017 Submersible motor pump with one of the world's highest output capability delivered to a pumping station delivering public water to Las Vegas, USA 
- 2018 Number of cumulative dry vacuum pumps delivered from the Fujisawa Plant reaches 150 thousands 



Las Vegas underwater motor pump



Sales of 150 thousands dry vacuum pumps

Group Network

Affiliated Companies

[Fluid Machinery and Systems Company]

EBARA DENSEN LTD.
EBARA FAN & BLOWER CO., LTD.
Ebara Byron Jackson Co., Ltd.
E-Square Co., Ltd.
EBARA REFRIGERATION EQUIPMENT & SYSTEMS CO., LTD.
Elliott Group Holdings, Inc.
Elliott Ebara Turbomachinery Corporation
EBARA REFRIGERATION EQUIPMENT&SYSTEMS(CHINA)CO.,LTD.
EBARA BOMBAS AMÉRICA DO SUL LTDA.
EBARA VIETNAM PUMP COMPANY LIMITED
EBARA PUMPS EUROPE S.p.A.
EBARA PUMPS IBERIA, S.A.
SUMOTO s.r.l.

Ebara-Densan Taiwan Manufacturing Co., Ltd.

EBARA PUMPS PHILIPPINES, INC.
EBARA ENGINEERING SINGAPORE PTE. LTD.

PT. EBARA INDONESIA

EBARA (THAILAND) LIMITED
Ebara Machinery (China) Co., Ltd.

Ebara Pumps Malaysia Sdn. Bhd.

EBARA GREAT PUMPS CO., LTD.

EBARA PUMPS MIDDLE EAST FZE.

EBARA INTERNATIONAL CORPORATION

ELLIOTT COMPANY

EBARA DENSEN (KUNSHAN) CO., LTD

EBARA DENSEN (SAMOA) MFG. CO., LTD.

EBARA MACHINERY ZIBO CO., LTD.

Ebara Pompy Polska sp. z o.o.

HOOD-EIC, LLC

EBARA Pumps RUS Limited Liability Company

EBARA PUMPS SOUTH AFRICA (PTY) LTD

EBARA PUMPS AMERICAS CORPORATION

Ebara Thermal Systems (Thailand) Co.,Ltd.

EBARA PUMPS AUSTRALIA PTY. LTD.

EBARA DENSEN (QINGDAO) TECHNOLOGY CO., LTD.

EBARA FLUID MACHINERY KOREA CO., LTD.

PT. Ebara Turbomachinery Services Indonesia

EBARA PUMPS SAUDI ARABIA LLC

EBARA BOMBAS COLOMBIA S.A.S.

EBARA MACHINERY INDIA PRIVATE LIMITED

[Environmental Engineering Company]

Ebara Environmental Plant Co., Ltd.

Chubu Recycle Co., Ltd.

Swing Corporation

EBARA QINGDAO CO., LTD.

[Precision Machinery Company]

EBARA FIELD TECH. CORPORATION

EBARA Precision Machinery Europe GmbH

EBARA PRECISION MACHINERY KOREA INCORPORATED

Ebara Precision Machinery Taiwan Incorporated

SHANGHAI EBARA PRECISION MACHINERY CO., LTD.

EBARA TECHNOLOGIES INCORPORATED

[Administrative Subsidiaries]

EBARA AGENCY CO., LTD.

Ebara Shohnan Sports Center Inc.

EBARA MEISTER CO., LTD.

ECE Co., Ltd.

EBARA EARNEST Co., Ltd.

Ebara America Corporation



OVERVIEW - NFPA 20

NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

FIRE PUMPS

Fire Pumps are used to supply water for automatic sprinkler systems, standpipes or fire hydrants.

NFPA 20 classifies fire pumps as split case, vertical turbine, end suction or In-Line design.

All fire pumps are rated at 40 psi or more of boost.

Fire Pumps of the type described shall meet the following basic requirements:

1. Each pump is to be tested hydrostatically for not less than 5 minutes. The test pressure is to be not less than 1.5 times the maximum working pressure of the pump, but in no case less than 250 psi (1724 kPa).
2. A pump shall develop not less than 65 percent of rated total head when discharging at 1.5 times rated capacity. The maximum net pressure for a fire pump shall not exceed 140 percent of rated head.
3. The maximum pump brake horsepower shall not exceed the HP rating its driver, including service factor.

CONTROLLERS

Listed below are NFPA 20 minimum requirements for fire pump controllers:

MOTOR CONTROLLERS:

The motor control panel equipment shall be factory assembled, wired, tested, and specifically approved for fire pump service.

Combined manual and automatic type to incorporate the following:

- a. Isolating switch
- b. Externally operable, quick breaking disconnect
- c. Time delay Locked Rotor Over current protection set at 600% of motor full load current for 20 seconds
- d. Pressure switch with high and low pressure setting
- e. Motor Starter of the magnetic type
- f. Pilot lamp to indicate circuit breaker closed and power available
- g. Phase Reversal visible indicator pilot lamp

ENGINE CONTROLLERS:

Automatic engine controllers shall be assembled, wired assembled at the factory and specifically approved for fire pump service.

The following minimum features shall be incorporated:

- a. Pilot lamps to indicate controller in automatic position

- b. Alarm bell and pilot lamp to indicate low oil pressure, high jacket water temp, failure to start, shutdown for over speed, battery failure and battery charger failure
- c. Pressure recorder
- d. Battery charger
- e. Pressure switch with high and low settings
- f. Weekly Test Timer

Most control panels now supplied are manual stop. Automatic shutdown upon cancellation of all start signals can be supplied as an option. Engine controllers are supplied with as standard, equipment contacts to operate auxiliary equipment such as remote alarms, louvers etc.

DRIVERS

MOTORS:

NFPA 20 requires all fire pump motor drives to be rated for continuous duty and shall not be used at voltages in excess of 110% of rated voltage. At rated voltage and frequency, the full load ampere rating shall not be exceed (except as allowed by the service factor on motor nameplate)under any pumping condition.

ENGINES:

NFPA 20 requires that the engine shall have HP rating listed by a testing laboratories, (UL/FM) or be not less than 10% greater than the maximum brake HP required by the pump.

A deduction of 3% of the power shall be made for each 1000 feet rise in altitude above 300 ft. and 1% for each 10 degrees F. Above 77 degrees F. Ambient temp.

Minimum instrumentation and control shall include: adjustable speed governor, over speed shutdown device set approx. 20% above rated engine speed, tachometer with hour meter, oil pressure gauge and temperature gauge.

JOCKEY PUMPS

Jockey Pumps are used when it is desirable to maintain a uniform pressure on the fire system. Normally they are supplied at a capacity of 1% main pump and at a pressure slightly above design pressure. A centrifugal type is preferred, but a turbine vane pump or a positive displacement pump can be used. Where these latter types are used, a suitable relief valve shall be installed to prevent damage to the fire system.

CNPAX SINGLE-STAGE HSC CENTRIFUGAL FIRE PUMPSET FEATURE PROTECTION APPLICATIONS

COMMERCIAL FIRE FIGHTING	INDUSTRIAL FIRE FIGHTING
Airports, Metro Stations, Museum, Hotels, Hospitals, Schools, Shopping Malls, Warehouses & etc.	Industrial enterprises, Petrochemical, Power Plant & etc.

RANGE OF RATED CERTIFIED PARAMETER FOR SINGLE-STAGE HSC FIRE PUMP

FLOW CAPACITY(usgpm):							
300	400	450	500	750	1000	1250	
1500	2000	2500	3000	3500	4000	4500	
5000	5500	6000	6500	7000	7500	8000	
PRESSURE HEAD(psi): 40 to 367							

DRIVER SPEED(rpm):
50Hz, 2/4 Pole Speed Electric Motor: 3000/1500 Diesel Engine: 3000
60Hz, 2/4 Pole Speed Electric Motor: 3600/1800 Diesel Engine: 1800
Other Speed Diesel Engine: 2000/2100/2350/2600

VOLUTE CASING

- radial loads on impeller & shafting are reduced with the double volute design which could also prolong the bearing life
- user friendly & self-aligning make easy removal/installation for upper casing
- heavy duty casing and 250psi flange rating design for the high working pressure application
- efficiencies and NPSH is improved with the aid of CFD analysis & optimum design

BEARING UNITS

- both bearing at CP/CCP side can be easily maintained/replaced without completely disassembly the pump
- 6300 series single row deep groove ball bearings are simple, versatile and robust design, low friction high-speed capability accommodate radial and axial loads in both directions and require little maintenance
- grease purging lubrication feature according to the design specification is a practice of forcing grease completely through the bearing housing and bearing until old grease is removed and new grease shows at the grease relief plug

DRAIN SUM POINT
Centralised drain point for both the CP/CCP side stuffing box cooling water

Your Life, our Quality. Worldwide.

CASING WEAR RING

- Stationary on the casing
- Provide close running clearance minimizes pressure leakage between suction and discharge chambers of the casing
- maximizes efficiency
- Easily replaceable

REVOLVING PUMP SHAFT MODULE

- clockwise rotation is for both engine & motor driver, counter-clockwise rotation is possible for motor driver with similar components.
- minimum stocking of service components made possible due to the modular design which maximizes sharing of common parts
- double suction cast sus304 stainless steel impeller
- better corrosion prevention with the sus304 steel for shaft sleeves and gland packing module
- non fluid submerged design of shaft sleeve nut at far-side of fluid compartment could provide easy service access

PUMP SHAFT MODULE

- heavy duty quenched & tempered high chrome steel
- precision-machined and balanced to reduce vibration
- replaceable shaft protecting sleeves
- short distance between shaft bearing support at CP/CCP side

IMPELLER
with the aid of CFD analysis & optimum design the required BHP is the lowest which inline along the excellent hydraulic characteristics of the impeller

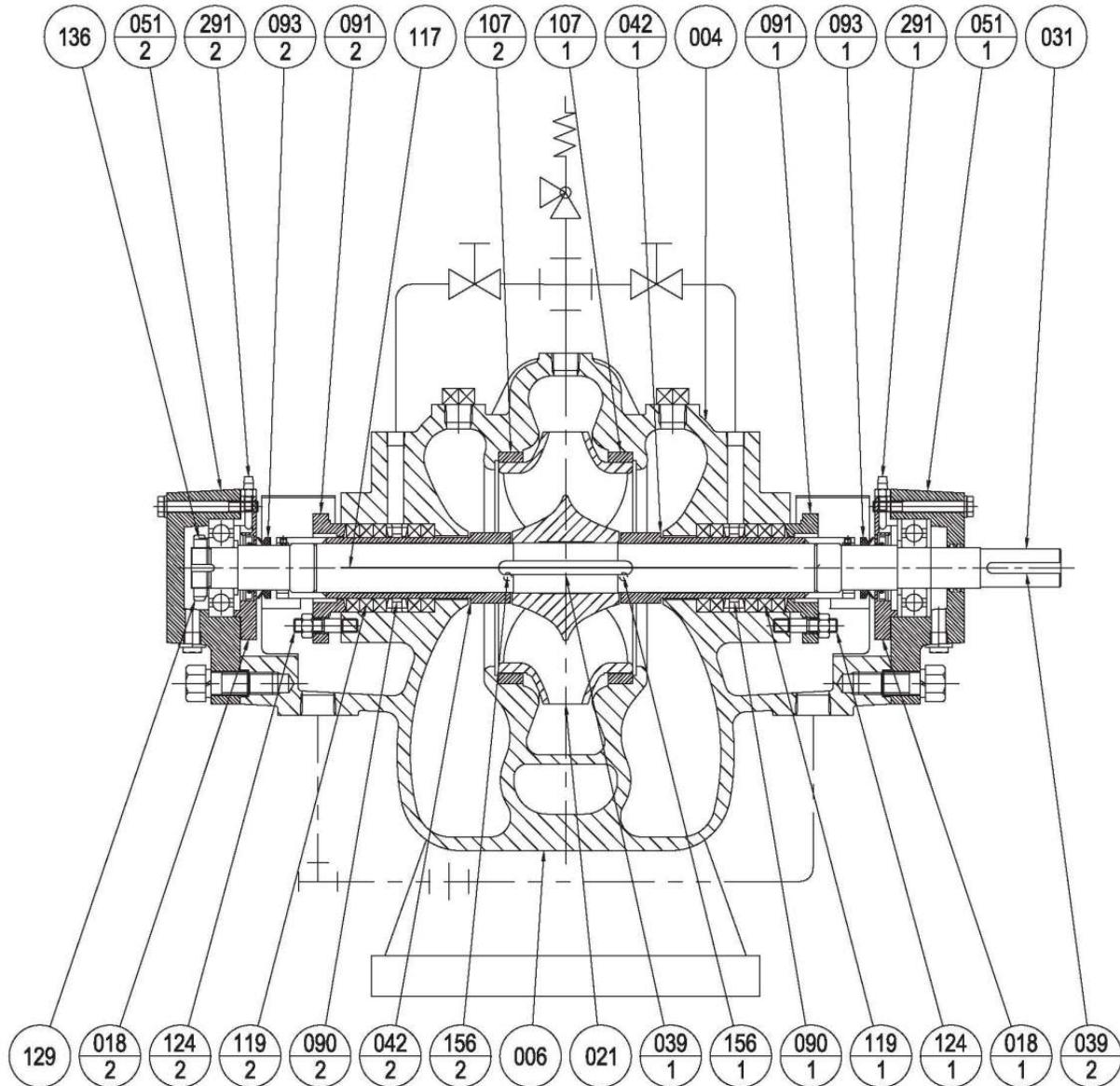
Looking ahead, going beyond expectations

Ahead Beyond



SECTIONAL VIEW - CNPAX

SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL FIRE PUMP



No.	Part Name	Material	Qty	No.	Part Name	Material	Qty
091-1	Gland (CP side)	Bronze	1	291	Grease Nipple	Steel	2
090-2	Lantern Ring (CCP side)	Stainless Steel / Duplex Stainless Steel	1	156-2	Lock Pin, Case Wearing (CCP side)	Stainless Steel / Duplex Stainless Steel	1
090-1	Lantern Ring (CP side)	Stainless Steel / Duplex Stainless Steel	1	156-1	Lock Pin, Case Wearing (CP side)	Stainless Steel / Duplex Stainless Steel	1
051-2	Bearing Cover (CCP side)	Cast Iron	1	136	Bearing Lock Washer	Steel	1
051-1	Bearing Cover (CP side)	Cast Iron	1	129	Bearing Lock Nut	Steel	1
042-2	Shaft Sleeve (CCP side)	Stainless Steel / Duplex Stainless Steel	1	124-2	Gland bolt & Nut (CCP side)	Stainless Steel / Duplex Stainless Steel	2
042-1	Shaft Sleeve (CP side)	Stainless Steel / Duplex Stainless Steel	1	124-1	Gland bolt & Nut (CP side)	Stainless Steel / Duplex Stainless Steel	2
039-2	Coupling Key	Stainless Steel / Duplex Stainless Steel	1	119-2	Gland Packing (CCP side)	Set(6 Rings)Teflon	1
039-1	Impeller Key	Stainless Steel / Duplex Stainless Steel	1	119-1	Gland Packing (CP side)	Set(6 Rings)Teflon	1
031	Shaft	Stainless Steel / Duplex Stainless Steel	1	117	Casing Gasket	Fiber	1
021	Impeller	Ductile Cast Iron / Duplex Stainless Steel	1	107-2	Casing Wearing (CCP side)	Bronze	1
018-2	Bearing Support (CCP side)	Ductile Cast Iron / Duplex Stainless Steel	1	107-1	Casing Wearing (CP side)	Bronze	1
018-1	Bearing Support (CP side)	Ductile Cast Iron / Duplex Stainless Steel	1	093-2	Deflector (CCP side)	Rubber	1
006	Casing Lower Half	Ductile Cast Iron / Duplex Stainless Steel	1	093-1	Deflector (CP side)	Rubber	1
004	Casing Upper Half	Ductile Cast Iron / Duplex Stainless Steel	1	091-2	Gland (CCP side)	Bronze	1

CNPAX MULTI-STAGE HSC CENTRIFUGAL FIRE PUMPSET FEATURE

PROTECTION APPLICATIONS

COMMERCIAL FIRE FIGHTING	INDUSTRIAL FIRE FIGHTING
Airports, Metro Stations, Museum, Hotels, Hospitals, Schools, Shopping Malls, Warehouses & etc.	Industrial enterprises, Petrochemical, Power Plant & etc.

RANGE OF RATED CERTIFIED PARAMETER FOR MULTI-STAGE HSC FIRE PUMP

FLOW CAPACITY(usgpm):				
500	750	1000	1250	1500
PRESSURE HEAD(psi): 236 to 616				

DRIVER SPEED(rpm):
50Hz, 2 Pole Speed Electric Motor: 3000 Diesel Engine: 3000
60Hz, 2/4 Pole Speed Electric Motor: 3600/1800 Diesel Engine: 1800

TWO STAGE VOLUTE CASING

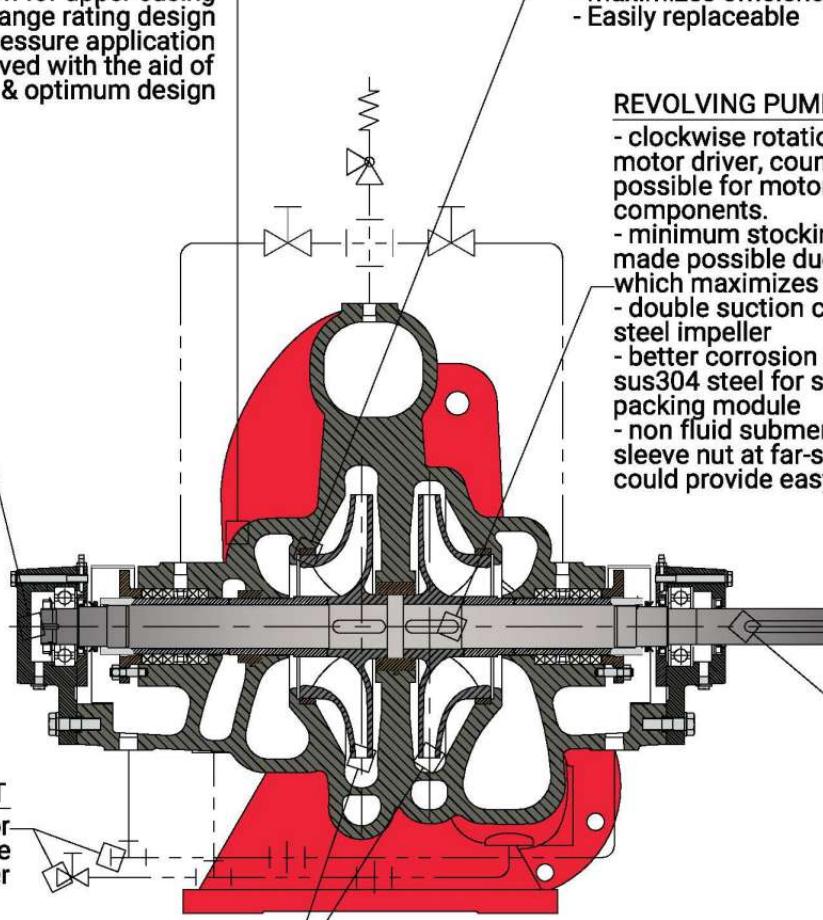
- radial loads on impeller & shafting are reduced with the double volute design which could also prolong the bearing life
 - user friendly & self-aligning make easy removal/installation for upper casing
- heavy duty casing and 250psi flange rating design for the high working pressure application
- efficiencies and NPSH is improved with the aid of CFD analysis & optimum design

BEARING UNITS

- both bearing at CP/CCP side can be easily maintained/replaced without completely disassembly the pump
 - 6300 series single row deep groove ball bearings are simple, versatile and robust design, low friction high-speed capability accommodate radial and axial loads in both directions and require little maintenance
- grease purging lubrication feature according to the design specification is a practice of forcing grease completely through the bearing housing and bearing until old grease is removed and new grease shows at the grease relief plug

DRAIN SUM POINT

Centralised drain point for both the CP/CCP side stuffing box cooling water



with the aid of CFD analysis & optimum design the required BHP is the lowest which inline along the excellent hydraulic characteristics of the impeller

CASING WEAR RING

- Stationary on the casing
- Provide close running clearance minimizes pressure leakage between suction and discharge chambers of the casing
- maximizes efficiency
- Easily replaceable

REVOLVING PUMP SHAFT MODULE

- clockwise rotation is for both engine & motor driver, counter-clockwise rotation is possible for motor driver with similar components.
- minimum stocking of service components made possible due to the modular design which maximizes sharing of common parts
- double suction cast sus304 stainless steel impeller
- better corrosion prevention with the sus304 steel for shaft sleeves and gland packing module
- non fluid submerged design of shaft sleeve nut at far-side of fluid compartment could provide easy service access

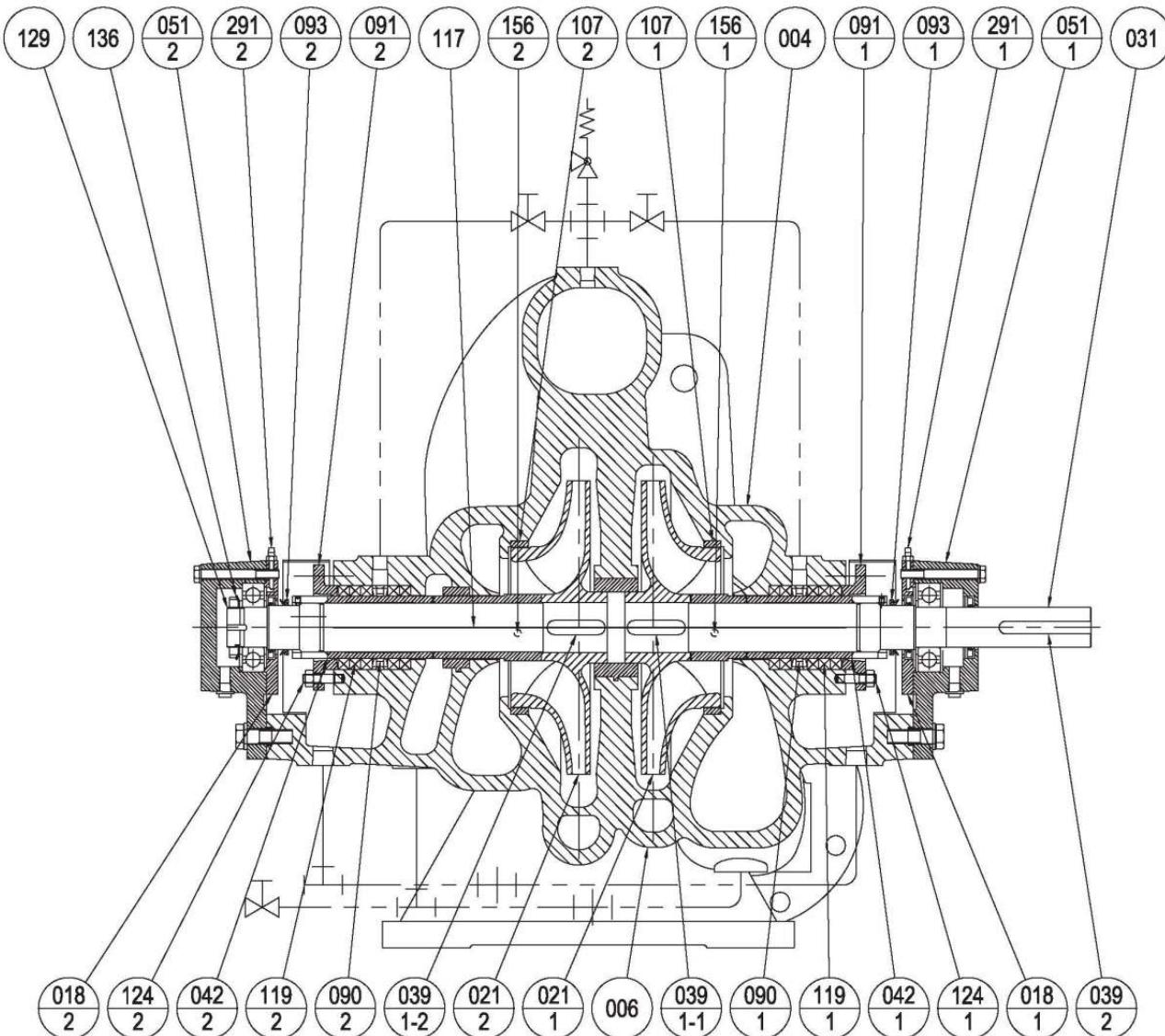
PUMP SHAFT MODULE

- heavy duty quenched & tempered high chrome steel
- precision-machined and balanced to reduce vibration
- replaceable shaft protecting sleeves
- short distance between shaft bearing support at CP/CCP side



SECTIONAL VIEW - CNPAX

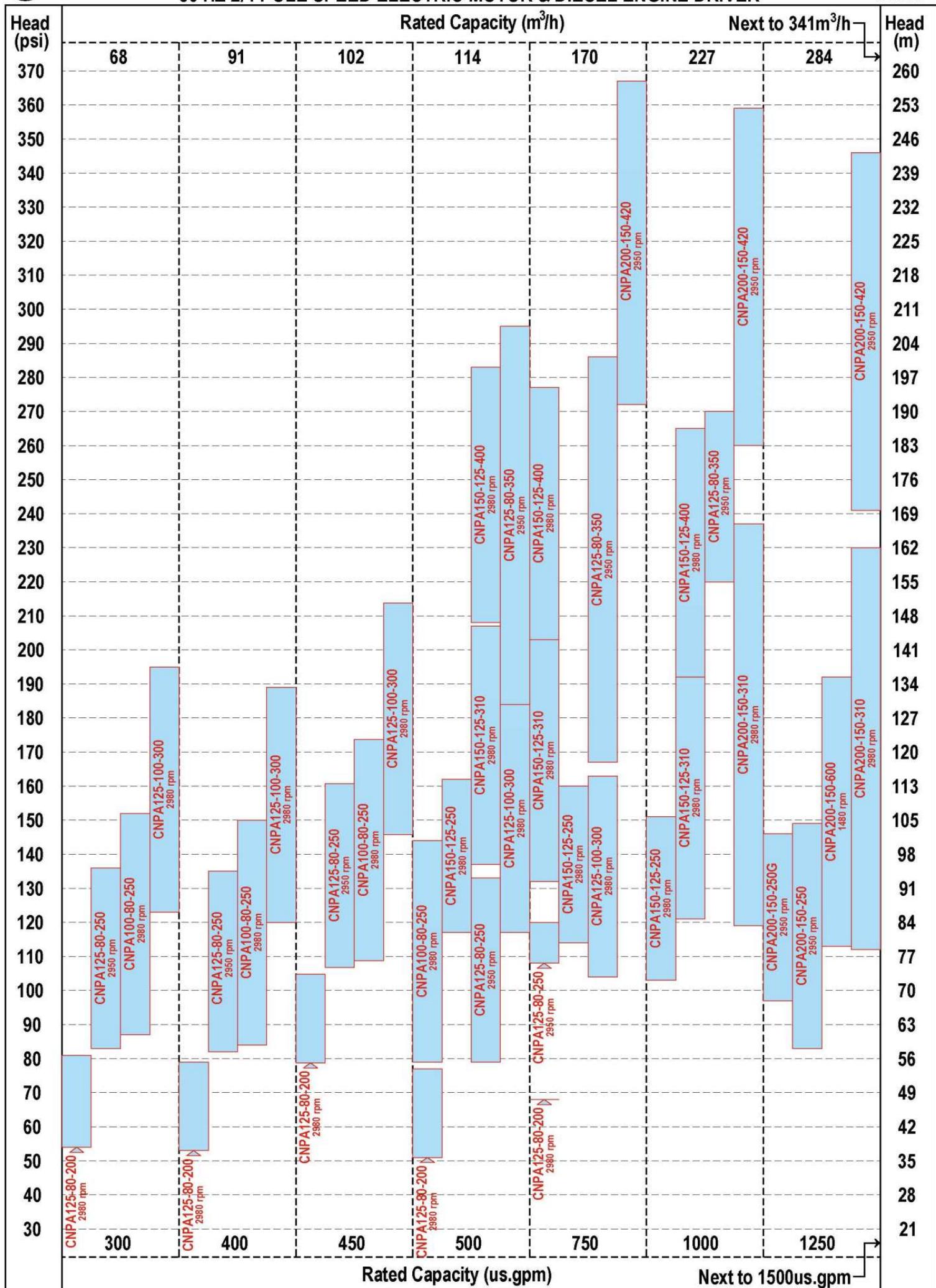
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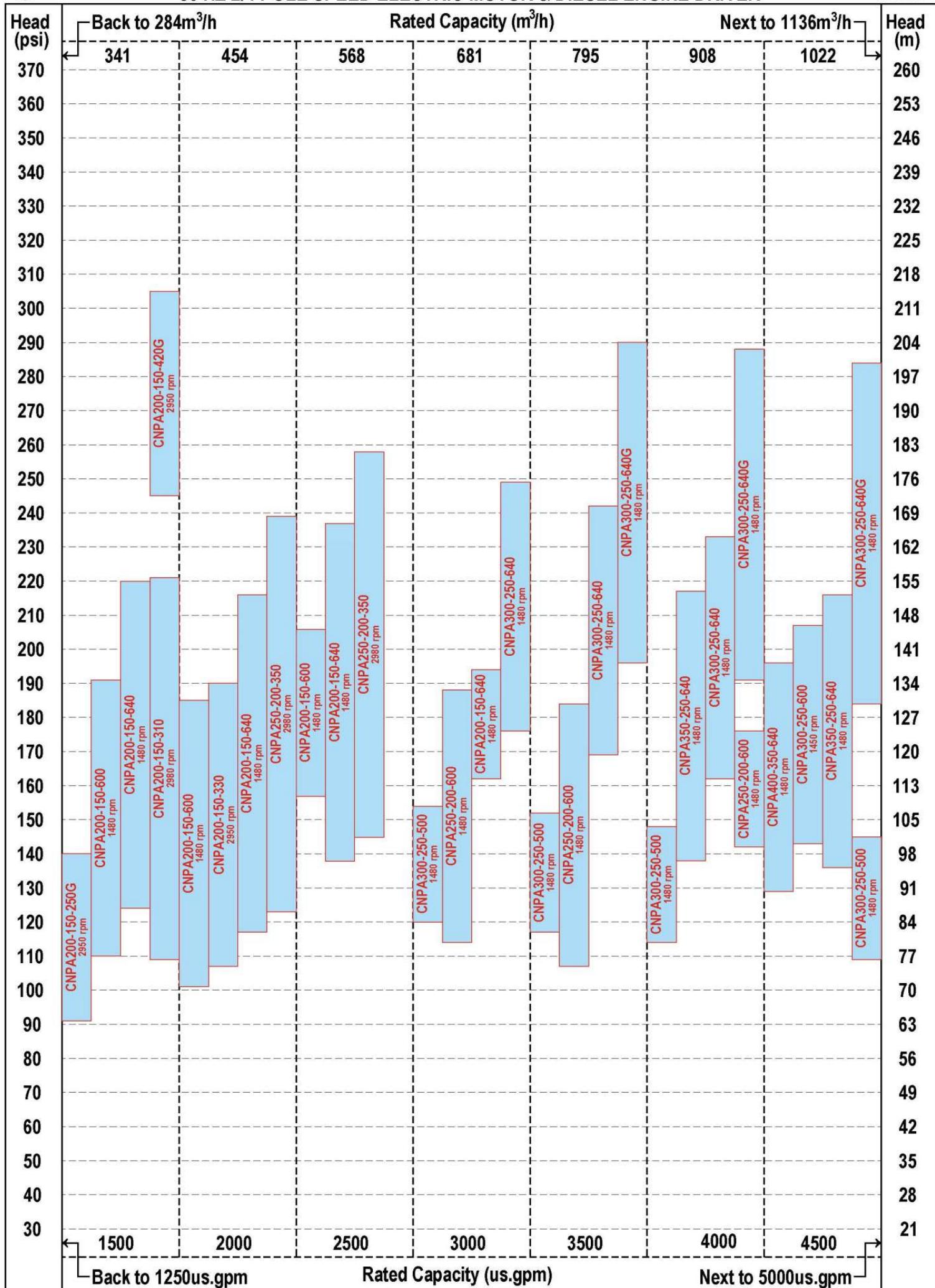
**SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS SELECTION CHART FOR
50 Hz 2/4 POLE SPEED ELECTRIC MOTOR & DIESEL ENGINE DRIVER**



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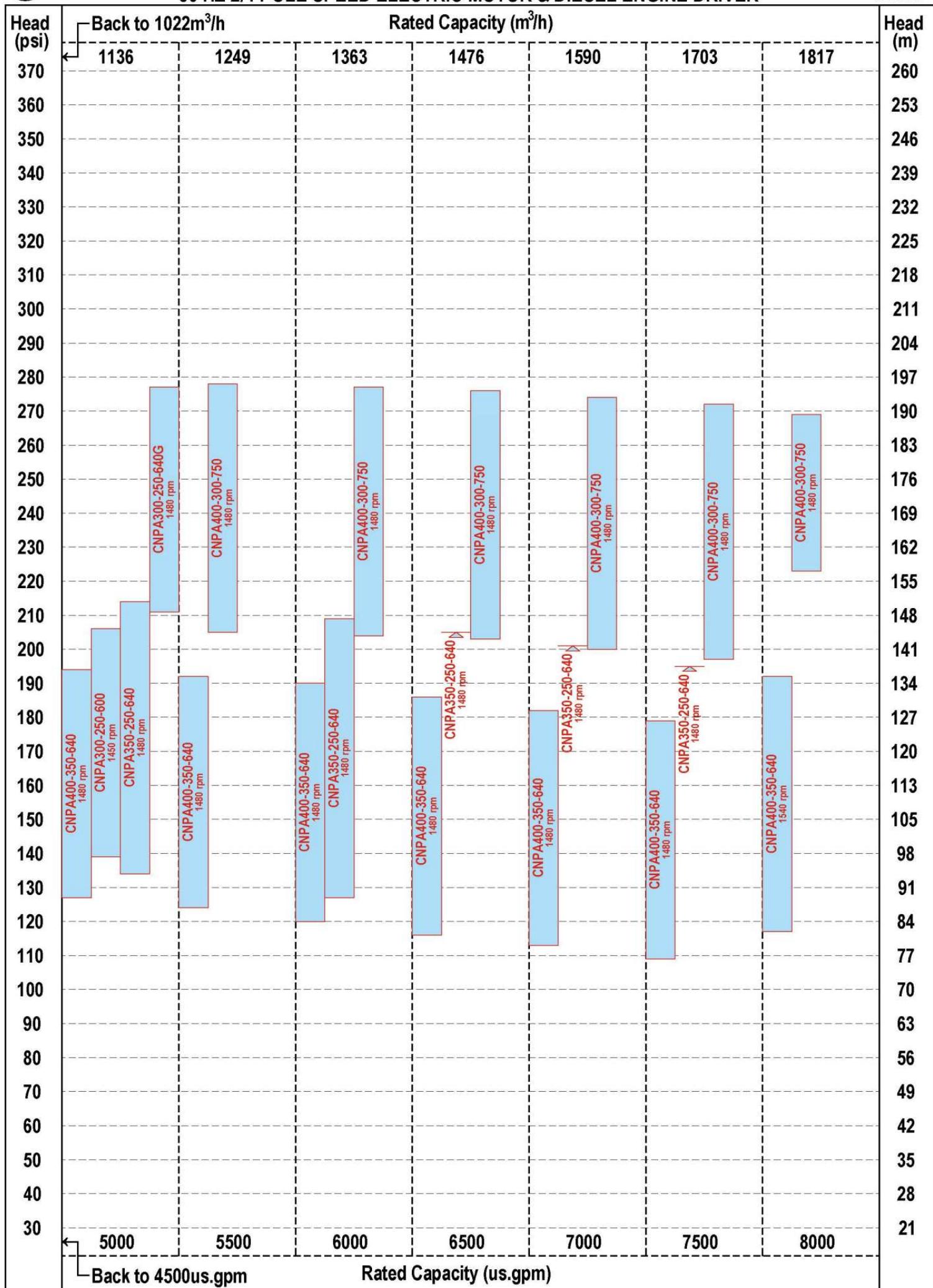
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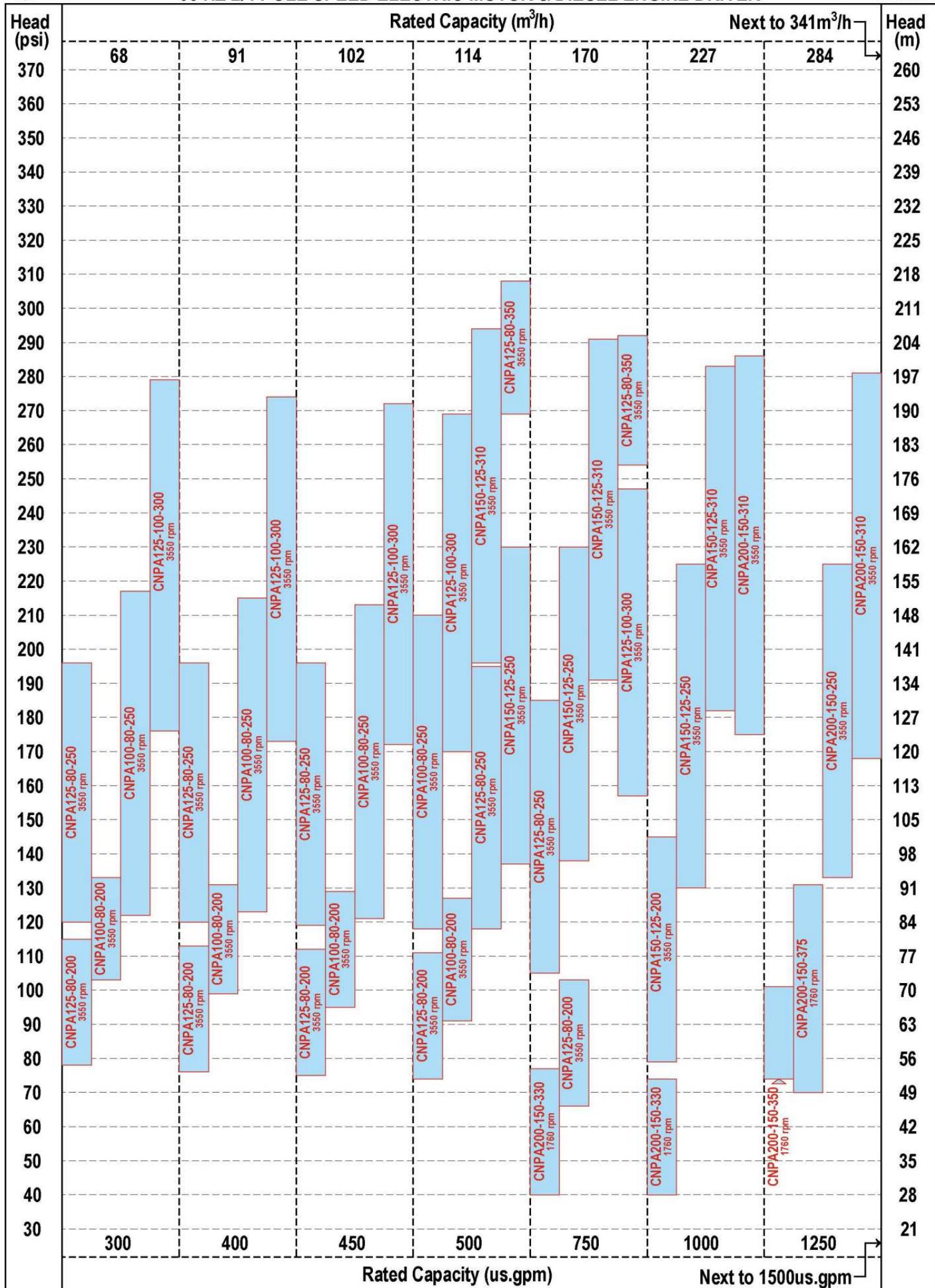
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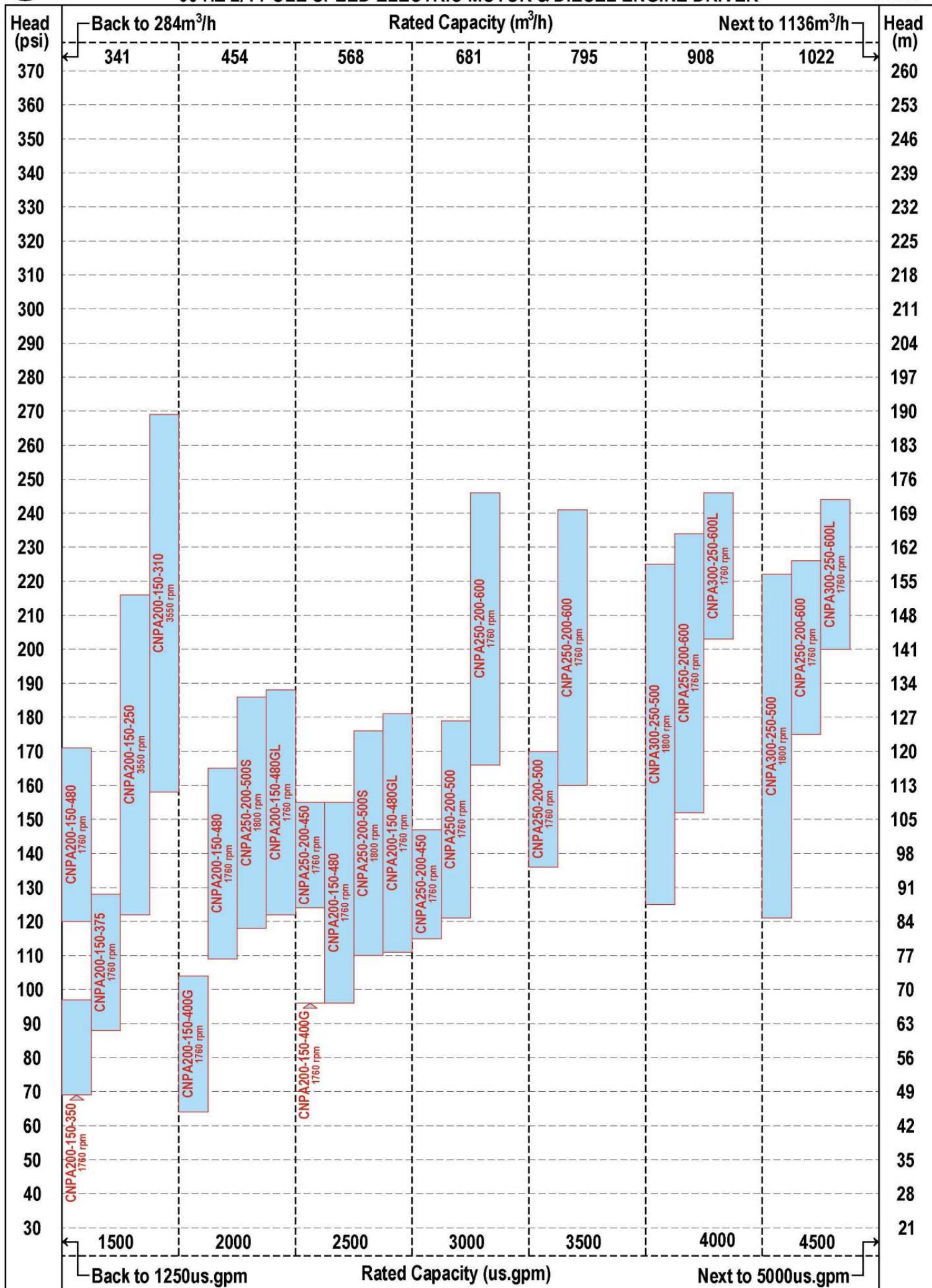
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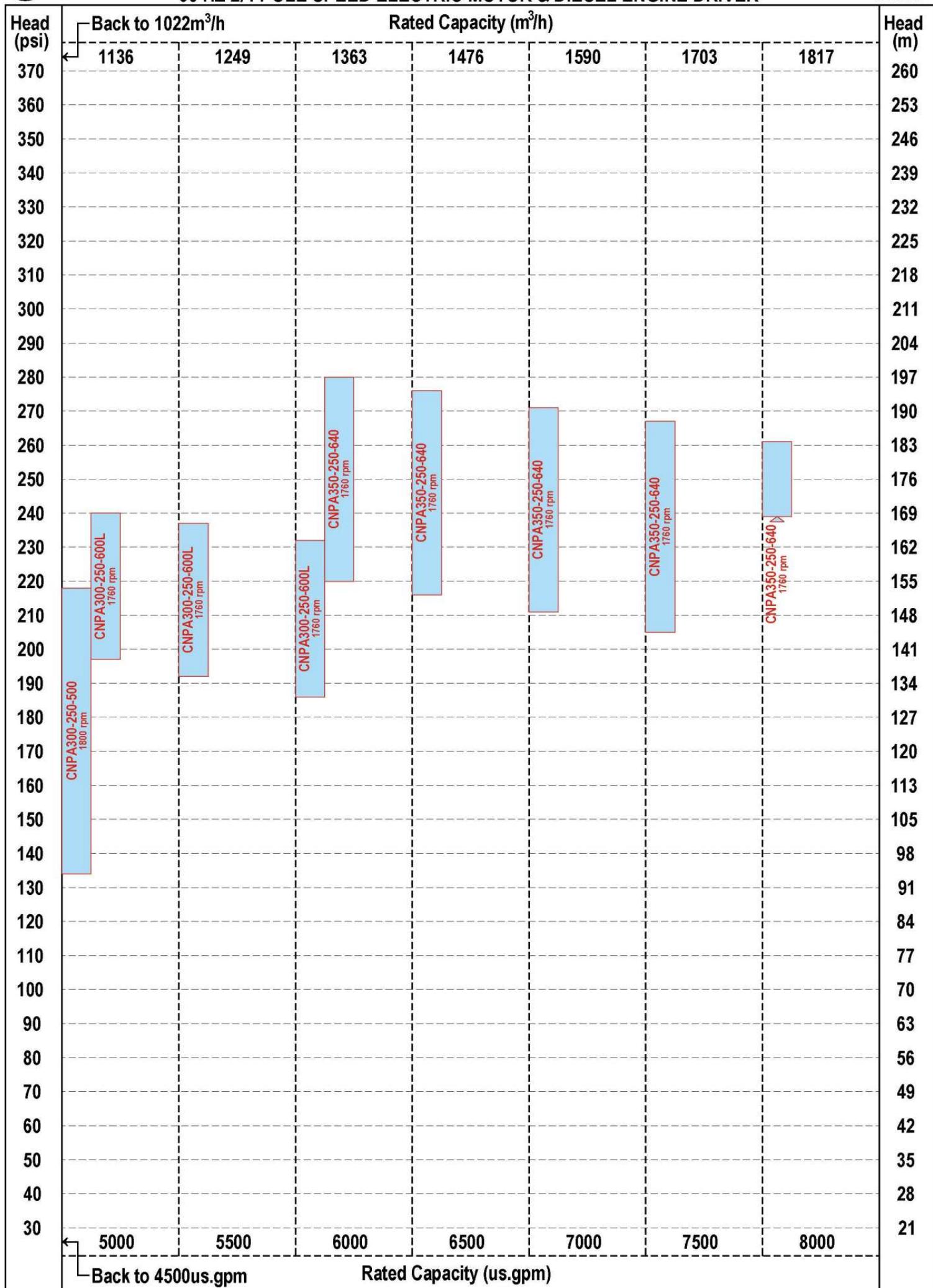
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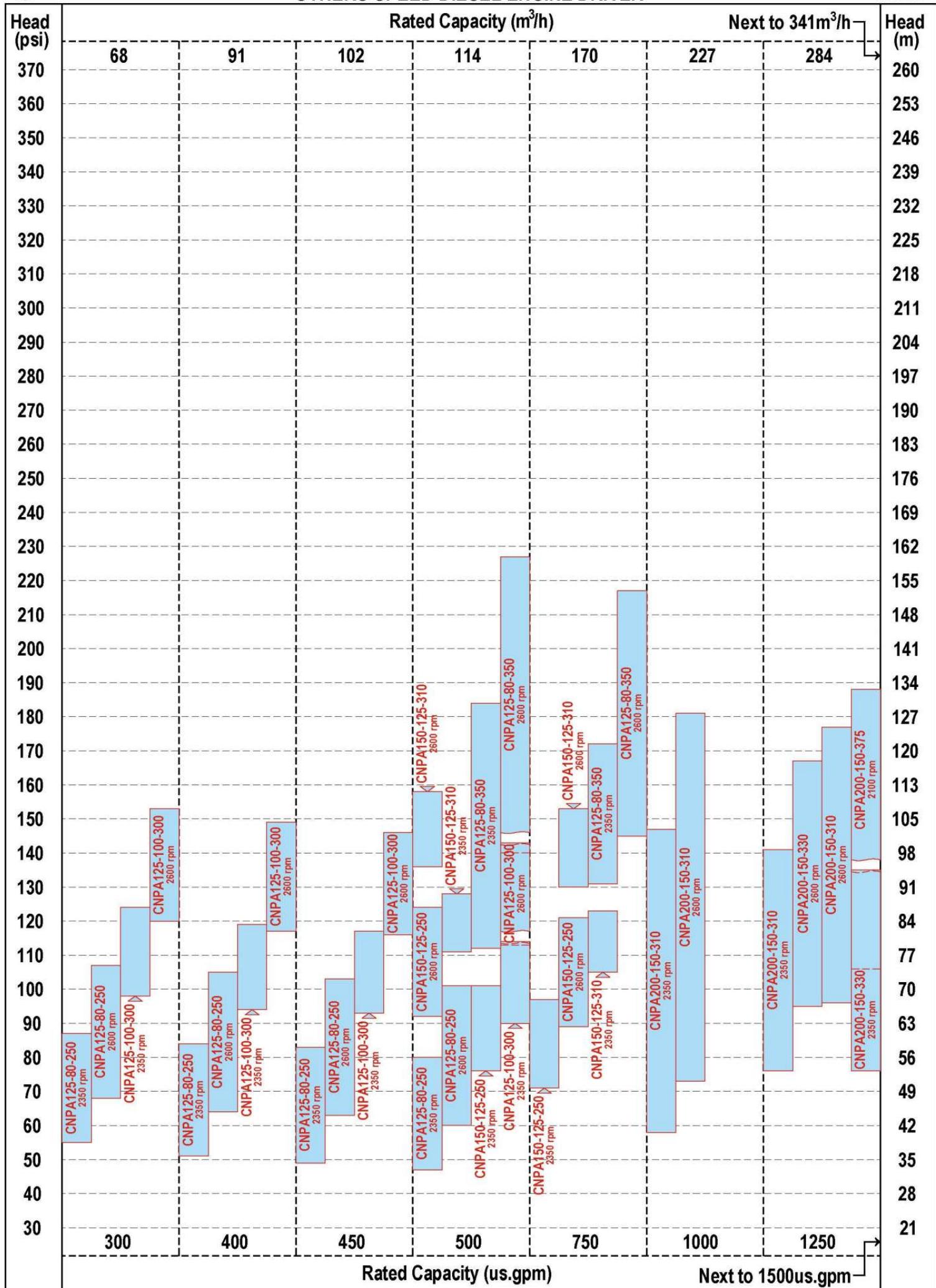
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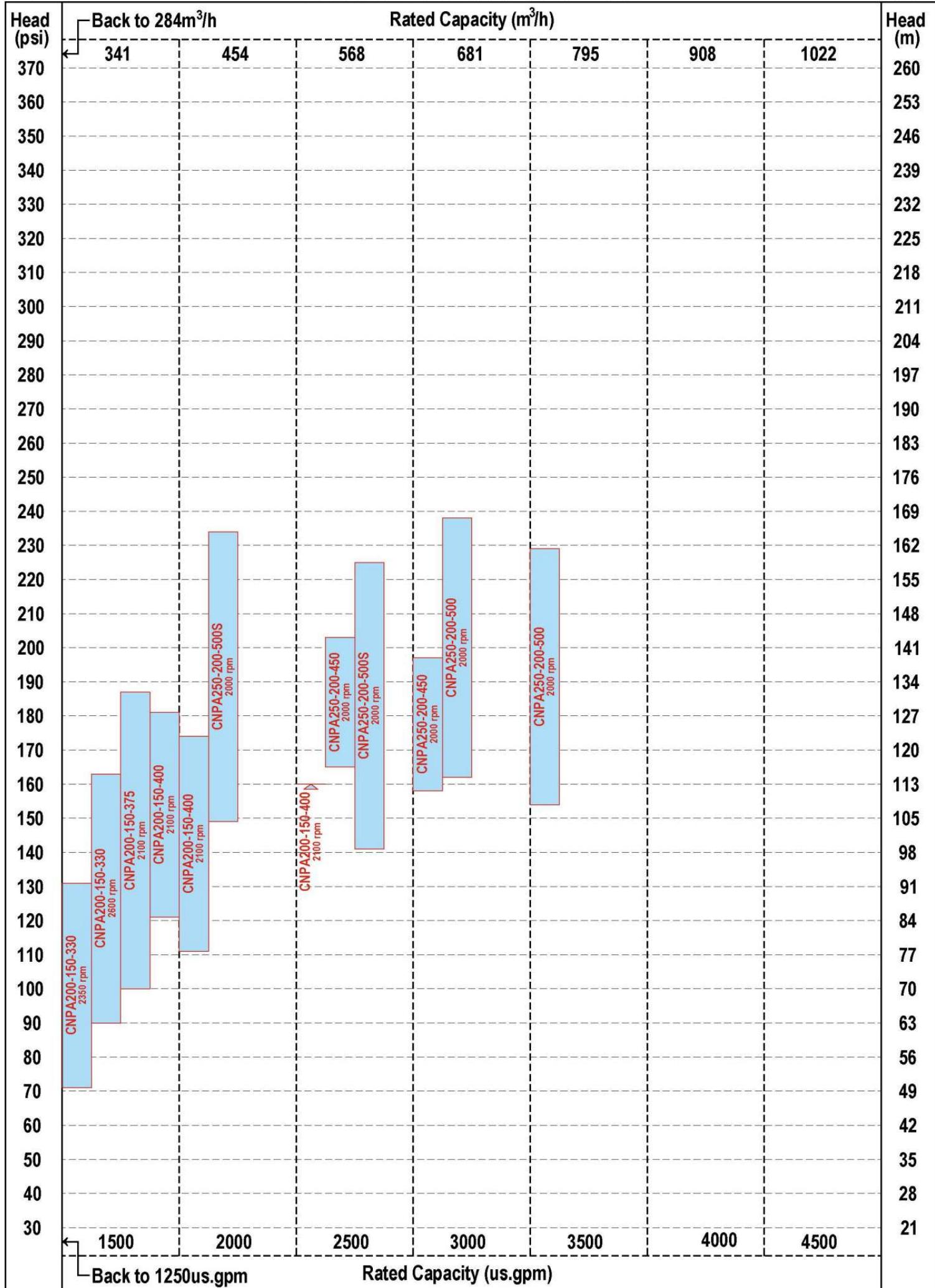
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OTHERS SPEED DIESEL ENGINE DRIVER**



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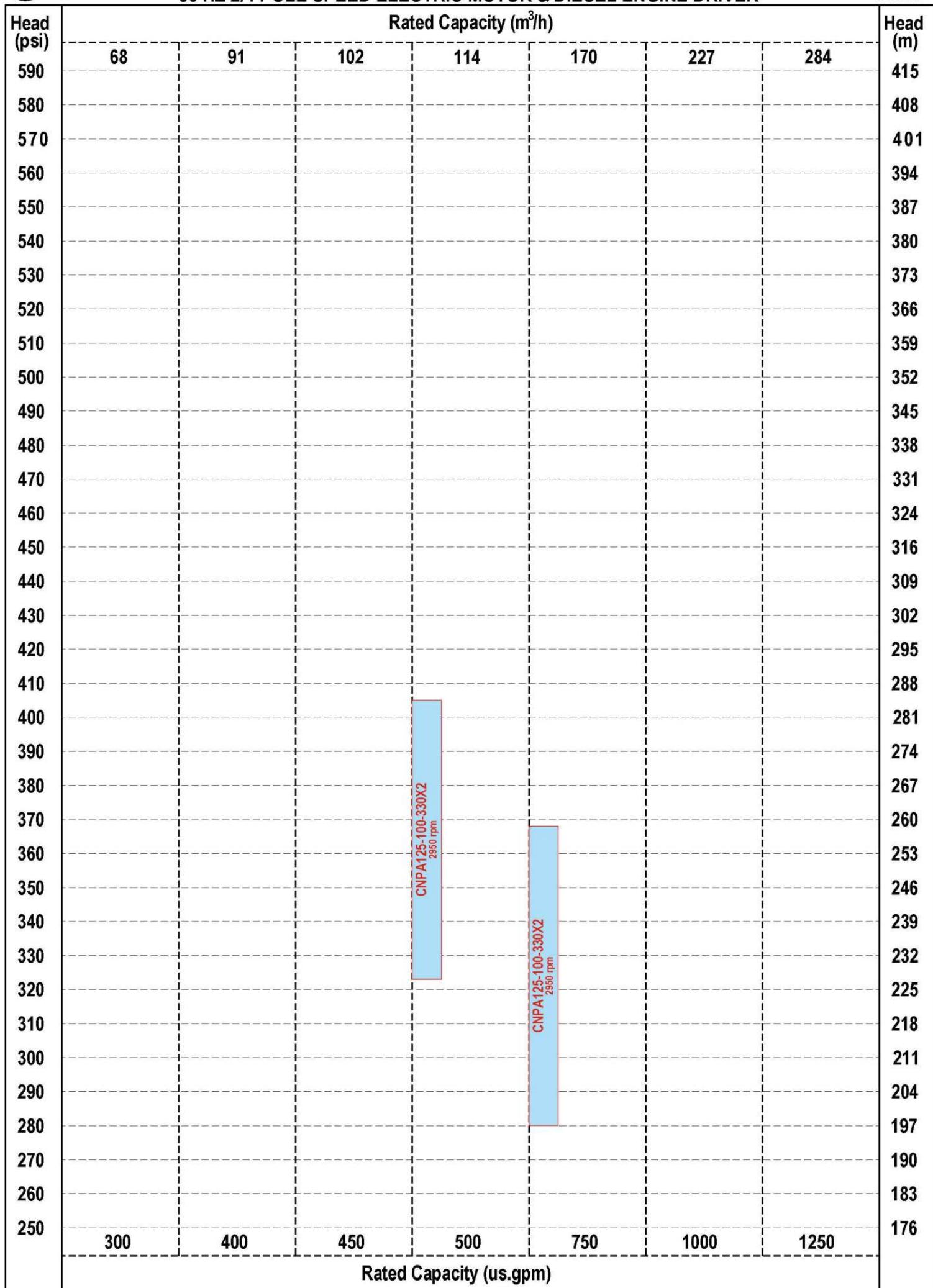
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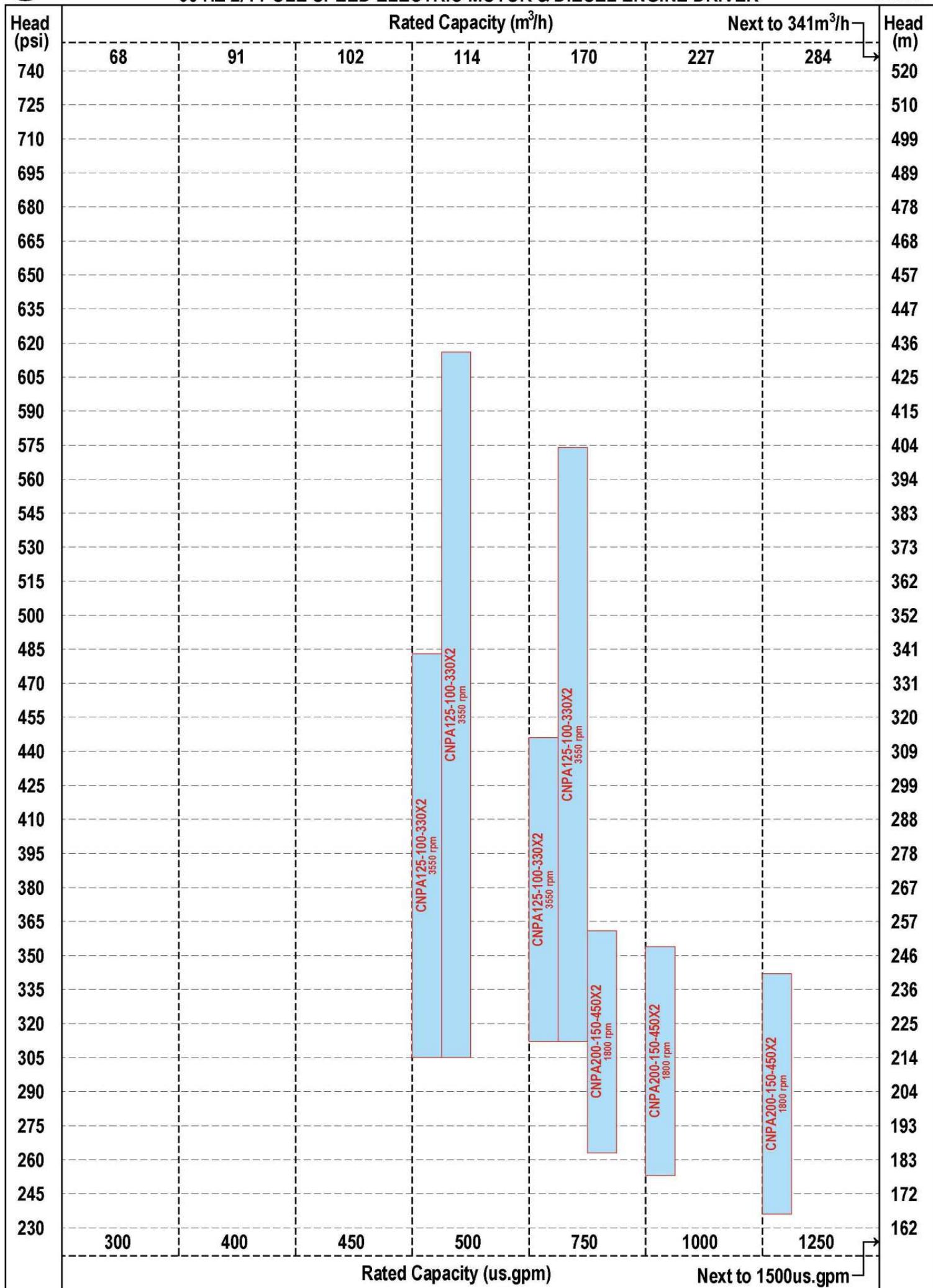
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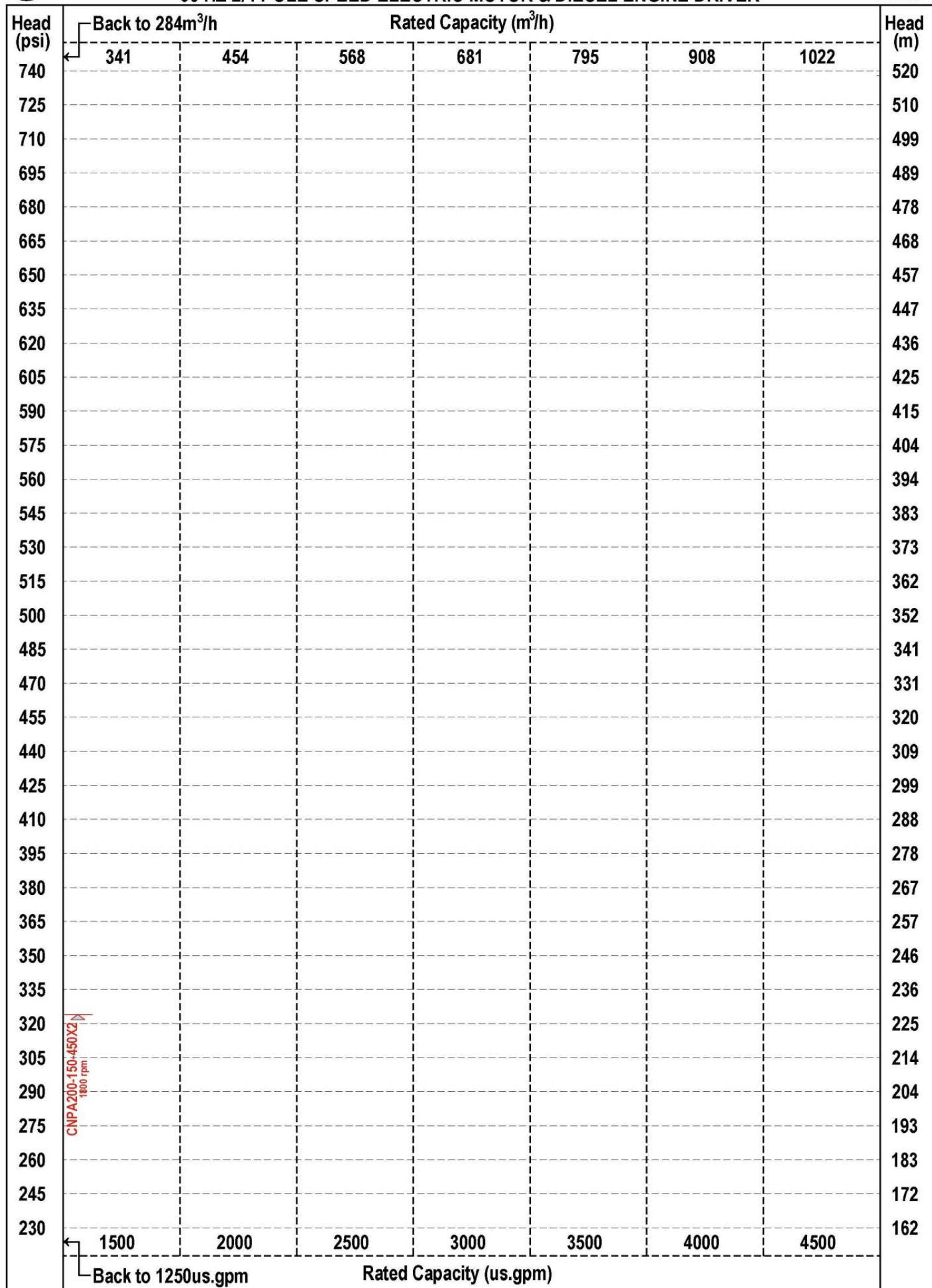
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CNPAB200-150-450X2
1800 rpm

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**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 300us.gpm(68m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
54	38	Min.206mm	CNPA125-80-250 UL:55~87psi FM:54~86psi	2350	20	X									
60	42				23	X									
65	46				25	X									
70	49				27	X									
75	53				30	X									
80	56				32	X									
85	60				35	X									
87	61	Max.253mm			36	X									
98	69	Min.280mm	CNPA125-100-300 UL:98~124psi FM:98~123psi	2350	47	X									
100	70				48	X									
105	74				50	X									
110	77				52	X									
115	81				54	X									
120	84				56	X									
124	87	Max.315mm			57	X									
68	48	Min.206mm	CNPA125-80-250 UL:68~107psi FM:66~105psi	2600	27	X									
70	49				28	X									
75	53				30	X									
80	56				33	X									
85	60				36	X									
90	63				38	X									
95	67				41	X									
100	70				44	X									
105	74				47	X									
107	75	Max.253mm			48	X									
120	84	Min.280mm	CNPA125-100-300 UL:120~153psi FM:120~152psi	2600	62	X									
125	88				64	X									
130	91				67	X									
135	95				69	X									
140	98				72	X									
145	102				74	X									
150	106				76	X									
153	108	Max.315mm			78	X									
53	37	Min.163mm	CNPA125-80-200 UL:54~81psi FM:53~80psi	2980	25	F-TDC286TS30U2B /F-TXC286TS30U2B		30	NM4-90C	40	NM4-90				
55	39				26	F-TDC286TS30U2B /F-TXC286TS30U2B									
60	42				29	F-TDC286TS30U2B /F-TXC286TS30U2B									
65	46				32	F-TDC286TS30U2B /F-TXC286TS30U2B									
70	49				35	F-TDC286TS30U2B /F-TXC286TS30U2B									
75	53				38	F-TDC286TS30U2B /F-TXC286TS30U2B									
80	56	Max.204mm			41	F-TDC286TS30U2B /F-TXC286TS30U2B									
83	58	Min.200mm	CNPA125-80-250	2950	39	F-TDC286TS30U2B /F-TXC286TS30U2B		40	NM4-90C	40	NM4-90				
86	60	Max.253mm			40	F-TDC286TS30U2B /F-TXC286TS30U2B									
87	61	Min.210mm	CNPA100-80-250 UL:87~152psi FM:87~153psi	2980	39	F-TDC286TS30U2B /F-TXC286TS30U2B		40	NM4-90C	40	NM4-90				
90	63				40	F-TDC286TS30U2B /F-TXC286TS30U2B									
95	67				41	F-TDC286TS30U2B /F-TXC286TS30U2B									
100	70				43	F-TDC286TS30U2B /F-TXC286TS30U2B									
105	74				44	F-TDC286TS30U2B /F-TXC286TS30U2B									
110	77				46	F-TDC286TS30U2B /F-TXC286TS30U2B									
115	81				48	F-TDC324TS40U2B /F-TXC324TS40U2B		50	NM4-90B	61	NM4-105				
120	84				50	F-TDC324TS40U2B /F-TXC324TS40U2B									
125	88				52	F-TDC324TS40U2B /F-TXC324TS40U2B									
130	91				54	F-TDC324TS40U2B /F-TXC324TS40U2B									
135	95				57	F-TDC324TS40U2B /F-TXC324TS40U2B									
140	98				59	F-TDC326TS60U2B /F-TXC326TS60U2B		60	NM4-102C	75	NM4-105				
145	102				62	F-TDC326TS60U2B /F-TXC326TS60U2B									
150	106				65	F-TDC326TS60U2B /F-TXC326TS60U2B									
153	108	Max.280mm			67	F-TDC326TS60U2B /F-TXC326TS60U2B									



EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE



← PREV

RATED FLOW: 300us.gpm(68m³/h)

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
154	108	Min.250mm	CNPA125-100-300 UL:123~195psi FM:123~195psi	2980	88	F-TDC365TS100U2B /F-TXC405TS100U2B	100	NM4-102B	95	NM4-108	94				
160	113				91										
165	116				94										
170	120				96										
175	123				99										
180	127				101										
185	130				103										
190	134				105										
195	137	Max.315mm			107										
200	141	UL: - psi			111										
205	144	FM: - psi			116										
209	147	Max.326mm			120										
77	54	Min.163mm	CNPA125-80-200 UL:78~115psi FM:77~115psi	3550	42	F-TDC286TS40U2B /F-TXC324TS40U2B	40	NM4-108B	117	NM4-108B	121				
80	56				44										
85	60				48										
90	63				52										
95	67				55										
100	70				59										
101	71	Max.204mm			60										
102	72	Min.192mm	CNPA100-80-200 UL:103~133psi FM:102~132psi	3550	39	F-TDC286TS40U2B /F-TXC324TS40U2B	40								
105	74				40										
110	77				44										
115	81				47	F-TDC324TS50U2B /F-TXC326TS50U2B	50								
120	84				50										
125	88				53										
130	91				57										
132	93	Max.215mm	CNPA100-80-250 UL:122~217psi FM:124~218psi	3550	58	F-TDC326TS60U2B /F-TXC364TS60U2B	60								
133	94	Min.210mm			66										
135	95				67										
140	98				69										
145	102				71	F-TDC365TS75U2B /F-TXC365TS75U2B	75								
150	106				73										
155	109				75										
160	113				77										
165	116				80										
170	120				82										
175	123				85										
180	127				88										
185	130				91										
190	134				93										
195	137				97	F-TDC365TS100U2B /F-TXC405TS100U2B	100								
200	141				100										
205	144				104										
210	148				107										
215	151				111										
217	153	Max.280mm			113										
218	153	Min.250mm	CNPA125-100-300 UL:176~279psi FM:176~279psi	3550	148	F-TDC405TS150U2B /F-TXC445TS150U2B	150								
220	155				149										
225	158				152										
230	162				155										
235	165				158										
240	169				160										
245	172				163										
250	176				166										
255	179				169										
260	183				171										
265	186				174	F-TDC444TS200U2B /F-TXC447TS200U2B	200								
270	190				176										
275	193				179										
279	196	Max.315mm			181										



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 400us.gpm(91m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)								
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp					
50	35	Min.206mm	CNPA125-80-250 UL:55~87psi FM:54~86psi	2350	20	X										
55	39				22	X										
60	42				24	X										
65	46				27	X										
70	49				29	X										
75	53				31	X										
80	56				34	X										
84	59	Max.253mm			36	X										
94	66	Min.280mm	CNPA125-100-300 UL:94~119psi FM:94~118psi	2350	47	X										
100	70				50	X										
105	74				52	X										
110	77				53	X										
115	81				55	X										
119	84	Max.315mm			57	X										
63	44	Min.206mm	CNPA125-80-250 UL:64~105psi FM:63~103psi	2600	26	X										
65	46				27	X										
70	49				29	X										
75	53				32	X										
80	56				35	X										
85	60				37	X										
90	63				40	X										
95	67				42	X										
100	70				45	X										
104	73	Max.253mm			47	X										
118	83	Min.280mm	CNPA125-100-300 UL:117~149psi FM:117~147psi	2600	63	X										
120	84				64	X										
125	88				66	X										
130	91				69	X										
135	95				71	X										
140	98				74	X										
145	102				76	X										
148	104	Max.315mm			78	X										
52	37	Min.163mm	CNPA125-80-200 UL:53~79psi FM:52~79psi	2980	25	F-TDC286TS30U2B /F-TXC286TS30U2B		30	NM4-90C	40	NM4-90					
55	39				27	F-TDC286TS30U2B /F-TXC286TS30U2B										
60	42				30	F-TDC286TS30U2B /F-TXC286TS30U2B										
65	46				33	F-TDC286TS30U2B /F-TXC286TS30U2B										
70	49				36	F-TDC286TS40U2B /F-TXC324TS40U2B		40	NM4-90B	61						
75	53				39	F-TDC286TS40U2B /F-TXC324TS40U2B										
79	56	Max.204mm			41	F-TDC286TS40U2B /F-TXC324TS40U2B										
83	58	Min.210mm	CNPA100-80-250 UL:84~150psi FM:83~149psi	2980	39	F-TDC286TS40U2B /F-TXC324TS40U2B		40	NM4-90C	40	NM4-90					
85	60				40	F-TDC286TS40U2B /F-TXC324TS40U2B										
90	63				41	F-TDC286TS40U2B /F-TXC324TS40U2B										
95	67				42	F-TDC286TS40U2B /F-TXC324TS40U2B										
100	70				44	F-TDC286TS40U2B /F-TXC324TS40U2B										
105	74				46	F-TDC286TS40U2B /F-TXC324TS40U2B										
110	77				48	F-TDC324TS50U2B /F-TXC326TS50U2B		50	NM4-90B	61						
115	81				49	F-TDC324TS50U2B /F-TXC326TS50U2B										
120	84				52	F-TDC324TS50U2B /F-TXC326TS50U2B										
125	88				54	F-TDC324TS50U2B /F-TXC326TS50U2B										
130	91				56	F-TDC324TS50U2B /F-TXC326TS50U2B										
135	95				59	F-TDC326TS60U2B /F-TXC364TS60U2B		60	NM4-102C	75						
140	98				61	F-TDC326TS60U2B /F-TXC364TS60U2B										
145	102				64	F-TDC326TS60U2B /F-TXC364TS60U2B										
149	105	Max.280mm			66	F-TDC326TS60U2B /F-TXC364TS60U2B										



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



◀ PREV

RATED FLOW: 400us.gpm(91m³/h)

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)									
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp						
150	106	Min.250mm	CNPA125-100-300	2980	88	F-TDC365TS100U2B /F-TXC405TS100U2B	100	NM4-102B	95	NM4-108	94						
155	109	UL:120~189psi FM:120~189psi			91												
160	113				93												
165	116				96												
170	120				98												
175	123				101			NM4-108B	117	NM4-108B	121						
180	127				103												
185	130	Max.315mm			105												
190	134	UL: - psi FM: - psi			108												
195	137				112												
200	141	Max.326mm	CNPA125-80-200	3550	116	F-TDC404TS125U2B /F-TXC444TS125U2B	125	NM6-110B	148	NM6-110B	148						
204	143				120												
76	53	Min.163mm			42	F-TDC286TS40U2B /F-TXC324TS40U2B	40										
80	56	UL:76~113psi FM:76~113psi			46												
85	60				49	F-TDC324TS50U2B /F-TXC326TS50U2B	50										
90	63				53												
95	67				57												
97	68	Max.204mm			58	F-TDC326TS60U2B /F-TXC364TS60U2B	60										
98	69	Min.192mm			39	F-TDC286TS40U2B /F-TXC324TS40U2B	40										
100	70	UL:99~131psi FM:98~130psi	CNPA100-80-200	3550	40												
105	74				43												
110	77				46												
115	81				49	F-TDC324TS50U2B /F-TXC326TS50U2B	50										
120	84				52												
125	88				55												
130	91	Max.215mm			58	F-TDC326TS60U2B /F-TXC364TS60U2B	60										
131	92	Min.210mm	CNPA100-80-250	3550	66	F-TDC326TS60U2B /F-TXC364TS60U2B	60										
135	95	67															
140	98	69															
145	102	72			F-TDC365TS75U2B /F-TXC365TS75U2B	75											
150	106	74															
155	109	76															
160	113	79															
165	116	81															
170	120	84															
175	123	86															
180	127	UL:123~215psi FM:122~215psi			89	F-TDC365TS100U2B /F-TXC405TS100U2B	100										
185	130				92												
190	134				96												
195	137				99												
200	141				102												
205	144				106												
210	148				110												
215	151	Max.280mm			114												
216	152	Min.250mm	CNPA125-100-300	3550	149	F-TDC405TS150U2B /F-TXC445TS150U2B	150										
220	155	151															
225	158	154															
230	162	157															
235	165	160															
240	169	163															
245	172	165															
250	176	168															
255	179	171															
260	183	173			F-TDC444TS200U2B /F-TXC447TS200U2B	200											
265	186	176															
270	190	179															
274	193	Max.315mm										181					

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**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 450us.gpm(102m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)				
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp	
48	34	Min.206mm	CNPA125-80-250 UL:55~87psi FM:54~86psi	2350	20	X						
50	35				21	X						
55	39				23	X						
60	42				25	X						
65	46				28	X						
70	49				30	X						
75	53				32	X						
80	56	Max.253mm			35	X						
92	65	Min.280mm	CNPA125-100-300 UL:93~117psi FM:92~115psi	2350	47	X						
95	67				48	X						
100	70				50	X						
105	74				52	X						
110	77				54	X						
115	81				56	X						
117	82	Max.315mm			57	X						
61	43	Min.206mm	CNPA125-80-250 UL:63~103psi FM:61~101psi	2600	26	X						
65	46				28	X						
70	49				30	X						
75	53				33	X						
80	56				35	X						
85	60				38	X						
90	63				41	X						
95	67				44	X						
100	70				46	X						
103	72	Max.253mm			48	X						
115	81	Min.280mm	CNPA125-100-300 UL:116~146psi FM:114~145psi	2600	62	X						
120	84				65	X						
125	88				67	X						
130	91				70	X						
135	95				73	X						
140	98				75	X						
145	102	Max.315mm			77	X						
51	36	Min.163mm	CNPA125-80-200 UL:52~78psi FM:51~78psi	2980	25	F-TDC286TS30U2B /F-TXC286TS30U2B		30	NM4-90C		NM4-90	
55	39				27							
60	42				30							
65	46				33							
70	49				36							
75	53				39	F-TDC286TS40U2B /F-TXC324TS40U2B			NM4-90B		NM4-105	
78	55	Max.204mm			41							
80	56	Min.210mm	CNPA100-80-250 UL:82~147psi FM:80~146psi	2980	39						86	
85	60				40							
90	63				42							
95	67				43							
100	70				45							
105	74				47							
110	77				49							
115	81				51							
120	84				53							
125	88				55							
130	91				58							
135	95				60							
140	98				63							
146	103	Max.280mm			66							



EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
147	103	Min.250mm	CNPA125-100-300 UL:119~187psi FM:119~187psi	2980	88	F-TDC365TS100U2B /F-TXC405TS100U2B	100	NM4-102B	95	NM4-108	94				
150	106				89										
155	109				92										
160	113				94										
165	116				97										
170	120				99										
175	123				102										
180	127				104										
185	130	Max.315mm			106										
190	134				109										
195	137	UL: - psi FM: - psi			114										
200	141				119										
201	141	Max.326mm			120										
75	53	Min.163mm	CNPA125-80-200 UL:75~112psi FM:75~112psi	3550	42	F-TDC286TS40U2B /F-TXC324TS40U2B	40	F-TDC286TS40U2B /F-TXC324TS40U2B	40	F-TDC286TS40U2B /F-TXC324TS40U2B	40				
80	56				46										
85	60				50										
90	63				53										
94	66	Max.204mm			57										
95	67	Min.192mm	CNPA100-80-200 UL:95~129psi FM:94~127psi	3550	39	F-TDC286TS40U2B /F-TXC324TS40U2B	40								
100	70				42										
105	74				45										
110	77				48										
115	81				50										
120	84				53										
125	88				56										
127	89	Max.215mm			58										
128	90	Min.210mm	CNPA100-80-250 UL:121~213psi FM:120~213psi	3550	66	F-TDC326TS60U2B /F-TXC364TS60U2B	60								
130	91				66										
135	95				68										
140	98				70										
145	102				72										
150	106				75										
155	109				77										
160	113				79										
165	116				82										
170	120				85										
175	123				87										
180	127				90										
185	130				93										
190	134				97										
195	137				100										
200	141				104										
205	144				107										
210	148				111										
213	150	Max.280mm			114										
214	151	Min.250mm	CNPA125-100-300 UL:172~272psi FM:172~272psi	3550	149	F-TDC405TS150U2B /F-TXC445TS150U2B	150								
220	155				153										
225	158				155										
230	162				158										
235	165				161										
240	169				164										
245	172				167										
250	176				169										
255	179				172										
260	183				175										
265	186				177										
270	190				180										
272	191	Max.315mm			181										



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 500us.gpm(114m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
45	32	Min.206mm	CNPA125-80-250 UL:55~87psi FM:54~86psi	2350	20	X					
50	35				22	X					
55	39				25	X					
60	42				27	X					
65	46				29	X					
70	49				31	X					
75	53				34	X					
80	56	Max.253mm			36	X					
89	63	Min.280mm	CNPA125-100-300 UL:90~114psi FM:89~111psi	2350	47	X					
95	67				50	X					
100	70				52	X					
105	74				53	X					
110	77				55	X					
114	80	Max.307mm			57	X					
115	81	Min.320mm	CNPA125-80-350 UL:112~184psi FM:116~191psi	UL:2350 FM:2380	57	X					
120	84				62	X					
125	88				66	X					
130	91				70	X					
135	95				75	X					
140	98				79	X					
145	102				84	X					
150	106				88	X					
155	109				93	X					
160	113				97	X					
165	116		CNPA125-80-250 UL:60~101psi FM:58~98psi	2600	102	X					
170	120				107	X					
175	123				112	X					
180	127				117	X					
185	130				122	X					
191	134	Max.395mm			128	X					
58	41	Min.206mm	CNPA125-80-250 UL:60~101psi FM:58~98psi	2600	26	X					
60	42				27	X					
65	46				29	X					
70	49				32	X					
75	53				34	X					
80	56				37	X					
85	60				39	X					
90	63				42	X					
95	67				45	X					
101	71	Max.253mm			48	X					
112	79	Min.280mm	CNPA125-100-300 UL:113~143psi FM:112~141psi	2600	62	X					
115	81				64	X					
120	84				66	X					
125	88				69	X					
130	91				71	X					
135	95				74	X					
140	98				76	X					
141	99	Max.307mm			77	X					

CFP5E-F10 104

NM4-101C-EC 130



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
142	100	Min.320mm	CNPA125-80-350 UL:140~227psi FM:142~230psi	2600	75	X					
145	102				77	X					
150	106				82	X					
155	109				86	X					
160	113				91	X					
165	116				95	X					
170	120				100	X					
175	123				104	X					
180	127				109	X					
185	130				114	X					
190	134				120	X					
195	137				126	X					
200	141				133	X					
205	144				139	X					
210	148				144	X					
215	151				149	X					
220	155				154	X					
225	158				159	X					
230	162	Max.395mm			163	X					
50	35	Min.163mm	CNPA125-80-200 UL: 51~77psi FM:50~77psi	2980	25	F-TDC286TS30U2B /F-TXC286TS30U2B	30	NM4-90C	40	NM4-90	51
55	39				28						
60	42				31						
65	46				34						
70	49				37	F-TDC286TS40U2B /F-TXC324TS40U2B	40	NM4-90B	61	NM4-90	51
75	53				40						
77	54	Max.204mm			41						
78	55	Min.210mm	CNPA100-80-250 UL:79~144psi FM:78~142psi	2980	39	F-TDC286TS40U2B /F-TXC324TS40U2B	40	NM4-90C	40	NM4-90	51
80	56				40						
85	60				41						
90	63				43						
95	67				44						
100	70				46						
105	74				48	F-TDC324TS50U2B /F-TXC326TS50U2B	50	NM4-90B	61	NM4-105	86
110	77				50						
115	81				52						
120	84				54						
125	88				57						
130	91				59	F-TDC326TS60U2B /F-TXC364TS60U2B	60	NM4-102C	75	NM4-108	94
135	95				62						
140	98				65						
144	101	Max.280mm			67						
145	102	Min.250mm	CNPA125-100-300 UL: 117~184psi FM:117~184psi	2980	88	F-TDC365TS100U2B /F-TXC405TS100U2B	100	NM4-102B	95	NM4-108B	121
150	106				91						
155	109				93						
160	113				96						
165	116				98						
170	120				101						
175	123				103						
180	127				105						
184	129	Max.326mm			107						



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
185	130	Min.320mm	UL:184~295psi FM:180~291psi	2950	111	F-TDC365TS100U2B /F-TXC405TS100U2B	100	NM4-108B	117	NM4-108B	121				
190	134				115										
195	137				119	F-TDC404TS125U2B /F-TXC444TS125U2B	125	NM6-110B	148	NM6-110B	153				
200	141				123										
205	144				128										
210	148				133										
215	151				138										
220	155				143										
225	158				148	F-TDC405TS150U2B /F-TXC445TS150U2B	150								
230	162				154										
235	165				160										
240	169				167										
245	172				173										
250	176				180										
255	179				187										
260	183		UL:323~405psi FM:324~408psi	2950	195	F-TDC444TS200U2B /F-TXC447TS200U2B	200	NM6-110E	192	NM6-110E	192				
265	186				203										
270	190				211										
275	193				220										
280	197				228										
285	200				238	F-TDC449TS250U2B /F-TXC449TS250U2B	250	NM6-108E	335	NM6-108E	335				
290	204				247										
295	208	Max.395mm			256										
323	227	Min.300mm	UL:323~405psi FM:324~408psi	2950	181	F-TDC444TS200U2B /F-TXC447TS200U2B	200	NM6-110D	239	NM6-110D	268				
325	229				182										
330	232				185										
335	236				188										
340	239				192										
345	243				195										
350	246				199										
355	250		CNPA125-100-330X2	3550	203										
360	253				207	F-TDC444TS200U2B /F-TXC447TS200U2B	250	NM6-108E	335	NM6-108E	335				
365	257				211										
370	260				215										
375	264				219										
380	267				223										
385	271				228										
390	274				232	F-TDC449TS250U2B /F-TXC449TS250U2B	250								
395	278				237										
400	281				242										
405	285	Max.334mm			247										
73	51	Min.163mm	CNPA125-80-200	3550	42	F-TDC286TS40U2B /F-TXC324TS40U2B	40	NM6-108E	335	NM6-108E	335				
75	53				44										
80	56	UL:74~111psi FM:73~111psi			48	F-TDC324TS50U2B /F-TXC326TS50U2B	50								
85	60				51										
89	63	Max.204mm			55										
90	63	Min.192mm	CNPA100-80-200	3550	39	F-TDC286TS40U2B /F-TXC324TS40U2B	40								
95	67				42										
100	70				44										
105	74	UL: 91~127psi FM:89~125psi			47	F-TDC324TS50U2B /F-TXC326TS50U2B	50								
110	77				49										
115	81				52										
120	84				55										
125	88	Max.215mm			58	F-TDC326TS60U2B /F-TXC364TS60U2B	60								



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
126	89	Min.210mm	CNPA100-80-250 UL:118~210psi FM:116~210psi	3550	66	F-TDC326TS60U2B /F-TXC364TS60U2B	60								
130	91				67										
135	95				69										
140	98				71										
145	102				74										
150	106				76										
155	109				79										
160	113				81										
165	116				84										
170	120				86										
175	123				89										
180	127				92										
185	130				95										
190	134				99	F-TDC365TS100U2B /F-TXC405TS100U2B	100								
195	137				102										
200	141				106										
205	144				110										
210	148	Max.280mm			114										
211	148	Min.250mm	CNPA125-100-300 UL:170~269psi FM:170~269psi	3550	149	F-TDC405TS150U2B /F-TXC445TS150U2B	150								
215	151				151										
220	155				154										
225	158				157										
230	162				160										
235	165				163										
240	169				165										
245	172				169										
250	176				171										
255	179				174	F-TDC444TS200U2B /F-TXC447TS200U2B	200								
260	183				176										
265	186				179										
269	189	Max.315mm			181										
270	190	Min.320mm	CNPA125-80-350 UL: 269~308psi FM:266~305psi	3550	201										
275	193				205										
280	197				209										
285	200				212	F-TDC444TS200U2B /F-TXC447TS200U2B	200								
290	204				216										
295	208				220										
300	211				224										
305	215				227										
308	217	Max.342mm			230										



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
350	246	Min.260mm	CNPA125-100-330X2 UL: 350~616psi FM:352~600psi	3550	218	F-TDC444TS200U2B /F-TXC447TS200U2B	200	F-TDC449TS250U2B /F-TXC449TS250U2B	250	F-TDC447TS300U2B /F-TXC449TS300U2B	300				
355	250				221										
360	253				224										
365	257				227										
370	260				230										
375	264				234										
380	267				237										
385	271				240										
390	274				243										
395	278				247										
400	281				250										
405	285				254										
410	288				257	F-TDC449TS250U2B /F-TXC449TS250U2B	250								
415	292				261										
420	295				264										
425	299				268										
430	302				272										
435	306				276										
440	310				279										
445	313				283										
450	317				287										
455	320				291										
460	324				295										
465	327				299										
470	331				303										
475	334				307										
480	338				312	F-TDC447TS300U2B /F-TXC449TS300U2B	300								
485	341				316										
490	345				321										
495	348				324										
500	352				329										
505	355				334										
510	359				338										
515	362				343										
520	366				348										
525	369				353										
530	373				357										
535	376				362										
540	380				367	F-TDC449TS350U2B /F-TXC586/7TS350U2B	350								
545	383				372										
550	387				378										
555	390				382										
560	394				388										
565	397				393										
570	401				398										
575	404				404										
580	408				409										
585	412				415										
590	415				421										
595	419				426	F-TXC586/7TS400U2B	400								
600	422				432										
605	426				438										
610	429				444										
616	433	Max.334mm			451										



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 750us.gpm(170m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
69	49	Min.248mm	CNPA150-125-250 UL:55~87psi FM:54~86psi	2350	45	NM4-101C-EC	130	NM6-101-EC	201	NM6-108F-EC	265
75	53				49						
80	56				53						
85	60				57						
90	63				61						
95	67				65						
98	69	Max.285mm			68						
105	74	Min.302mm	CNPA150-125-310 UL:105~123psi FM:105~122psi	2350	77	NM4-101C-EC	130	NM6-101-EC	201	NM6-108F-EC	265
110	77				81						
115	81				84						
120	84				88						
122	86	Max.326mm			90						
131	92	Min.360mm	CNPA125-80-350 UL:131~172psi FM:132~179psi	UL:2350 FM:2380	83	NM4-101C-EC	130	NM6-101-EC	201	NM6-108F-EC	265
135	95				86						
140	98				91						
145	102				95						
150	106				100						
155	109				104						
160	113				109						
165	116				114						
170	120				119						
175	123				124						
179	126	Max.395mm			128						
180	126	Min.290mm	CNPA150-125-370X2 UL: - psi FM: - psi	2350	123	NM4-101C-EC	130	NM6-101-EC	201	NM6-108F-EC	265
185	130				127						
190	133				130						
195	137				134						
200	140				138						
205	144				142						
210	147				146						
215	151				150						
220	155				154						
225	158				158						
230	162				162						
235	165				166						
240	169				171						
245	172				175						
250	176				179						
255	179				183						
260	183				187						
265	186				192						
270	190				196						
275	193				200						
280	197				204						
285	200				208						
290	204				213						
295	207				217						
300	211				222						
305	214				226						
310	218	Max.370mm			230						



EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)				
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp	
89	63	Min.248mm	CNPA150-125-250 UL:89~121psi FM:89~123psi	2600	61	/						
90	63				62	/						
95	67				66	/						
100	70				71	/						
105	74				75	/						
110	77				80	/						
115	81				84	/						
120	84				89	/						
123	87	Max.285mm			92	/						
130	91	Min.302mm			103	/						
135	95	UL:130~153psi	CNPA150-125-310 FM:132~152psi	2600	107	/						
140	98	FM:132~152psi			112	/						
144	101	Max.326mm			116	/						
145	102	Min.342mm			91	/						
145	102		CNPA125-80-350 UL:145~217psi FM:146~219psi	2600	91	/						
150	106				95	/						
155	109				100	/						
160	113				104	/						
165	116				109	/						
170	120				114	/						
175	123				119	/						
180	127				125	/						
185	130				131	/						
190	134				137	/						
195	137				142	/						
200	141				147	/						
205	144				151	/						
210	148				156	/						
215	151				160	/						
219	154	Max.395mm			163	/						
57	40	Min.177mm	CNPA150-125-200 UL: - psi FM: - psi	2950	50	F-TDC324TS50U2B /F-TXC326TS50U2B		50	NM4-90B	61	NM4-90	51
60	42				52	F-TDC326TS60U2B /F-TXC364TS60U2B		60				
65	46				56	F-TDC365TS75U2B /F-TXC365TS75U2B		75	NM4-102C	75	NM4-105	86
70	49				60	F-TDC365TS100U2B /F-TXC405TS100U2B		100				
75	53				64	F-TDC365TS100U2B /F-TXC405TS100U2B		100	NM4-102B	95	NM4-108B	121
80	56				69	F-TDC365TS100U2B /F-TXC405TS100U2B		100				
85	60				73	F-TDC365TS100U2B /F-TXC405TS100U2B		100				
90	63				77	F-TDC365TS100U2B /F-TXC405TS100U2B		100				
95	67				81	F-TDC365TS100U2B /F-TXC405TS100U2B		100				
100	70				86	F-TDC365TS100U2B /F-TXC405TS100U2B		100				
105	74	Max.230mm			90	F-TDC365TS100U2B /F-TXC405TS100U2B		100				
106	75	Min.245mm	CNPA125-80-250 UL:108~120psi FM:106~118psi	2950	64	F-TDC326TS60U2B /F-TXC364TS60U2B		60	NM4-102C	75	NM4-105	86
110	77	UL:108~120psi			67	F-TDC365TS75U2B /F-TXC365TS75U2B		75				
115	81	FM:106~118psi			70	F-TDC365TS75U2B /F-TXC365TS75U2B		100	NM4-108B	117	NM4-108B	121
120	84	Max.253mm			73	F-TDC365TS75U2B /F-TXC365TS75U2B		100				
121	85	Min.250mm	CNPA125-100-300 UL:104~163psi FM:104~163psi	2980	83	F-TDC365TS75U2B /F-TXC365TS75U2B		75	NM4-102B	95	NM4-105	86
125	88				86	F-TDC365TS75U2B /F-TXC365TS75U2B		100				
130	91				89	F-TDC365TS75U2B /F-TXC365TS75U2B		100				
135	95				92	F-TDC365TS75U2B /F-TXC365TS75U2B		100				
140	98				95	F-TDC365TS75U2B /F-TXC365TS75U2B		100				
145	102				98	F-TDC365TS75U2B /F-TXC365TS75U2B		100				
150	106				101	F-TDC365TS75U2B /F-TXC365TS75U2B		100				
155	109				103	F-TDC365TS75U2B /F-TXC365TS75U2B		100				
160	113				106	F-TDC365TS75U2B /F-TXC365TS75U2B		100				
163	115	Max.326mm			107	F-TDC365TS75U2B /F-TXC365TS75U2B		100				



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



PREV		RATED FLOW: 750us.gpm(170m³/h)							NEXT		
HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
164	115	Min.320mm	UL:167~286psi FM:164~283psi	2950	108	F-TDC365TS100U2B /F-TXC405TS100U2B	100	NM4-108B	117	NM4-108B	121
170	120				112						
175	123				116	F-TDC404TS125U2B /F-TXC444TS125U2B	125	NM6-110B	148	NM6-110B	153
180	127				120						
185	130				125						
190	134				129						
195	137				134						
200	141				139						
205	144				143						
210	148				149	F-TDC405TS150U2B /F-TXC445TS150U2B	150	NM6-110E	192	NM6-110E	192
215	151				154						
220	155				160						
225	158				166						
230	162				172						
235	165				178	F-TDC444TS200U2B /F-TXC447TS200U2B	200	NM6-110D	239	NM6-110D	268
240	169				185						
245	172				192						
250	176				199						
255	179				206						
260	183				213						
265	186				221						
270	190				229						
275	193				237	F-TDC449TS250U2B /F-TXC449TS250U2B	250	NM6-108E	335	NM6-108E	335
280	197				246						
285	200				255						
286	201	Max.395mm			257						
287	202	Min.300mm	UL:280~368psi FM:282~373psi	2950	184	F-TDC444TS200U2B /F-TXC447TS200U2B	200	NM6-110D	239	NM6-110D	268
290	204				186						
295	208				189						
300	211				192						
305	215				195						
310	218				198						
315	222				202						
320	225				205						
325	229				209						
330	232				213						
335	236				217						
340	239				220	F-TDC449TS250U2B /F-TXC449TS250U2B	250	NM6-108E	335	NM6-108E	335
345	243				224						
350	246				229						
355	250				233						
360	253				237						
365	257				242						
370	260				247						
373	262	Max.334mm			250						

The contents of this publication must not be regarded as binding. EBARA E NGINEERING SINGAPORE PTE. LTD. reserves the right to effect any modification it deems necessary, without prior notice.



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)				
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp	
374	263	Min.310mm	UL: - psi FM: - psi CNPA150-125-370X2	2950	297	F-TDC447TS300U2B /F-TXC449TS300U2B	300	NM6-108E	335	NM6-108E	335	
375	264				298							
380	267				304							
385	271				309							
390	274				315							
395	278				321							
400	281				326							
405	285				332							
410	288				338							
415	292				344							
420	295				350		F-TDC449TS350U2B /F-TXC586/7TS350U2B	350	NM6-108E	335	NM6-108E	335
425	299				355							
430	302				361							
435	306				367							
440	310				373							
445	313				379							
450	317				385							
455	320				391							
460	324				397							
465	327				403							
470	331				409							
475	334				415							
480	338				421		F-TDC449TS400U2B /F-TXC586/7TS400U2B	400	NM6-108E	335	NM6-108E	335
485	341				428							
490	345				434							
495	348				440							
500	352				446							
505	355				453							
510	359				459							
515	362	Max.370mm			465		F-TDC449TS450U2B /F-TXC586/7TS450U2B	450	NM6-108E	335	NM6-108E	335
40	28	Min.244mm	UL:40~77psi FM:40~78psi	1760	34							
45	32				39							
50	35				45							
55	39				51							
60	42				57							
65	46				64							
70	49				71		F-TDC364T75U4B /F-TXC364T75U4B	75	NM6-108E	335	NM6-108E	335
75	53				78							
80	56				81							
85	60				43		F-TDC286T30U4B /F-TXC286T30U4B	40	NM6-105B	204	NM6-101-EC	180
90	63				46							
95	67				51							
100	70				55							
103	72	Max.339mm	UL:66~103psi FM:66~103psi	3550	58							
66	46	Min.163mm			62							
70	49				65							
75	53				68							
80	56				70							
85	60											
90	63											
95	67											
100	70											
103	72	Max.204mm										



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
104	73	Min.200mm	UL:105~185psi FM:105~183psi	3550	64	F-TDC326TS60U2B /F-TXC364TS60U2B	60	F-TDC365TS75U2B /F-TXC365TS75U2B	100	F-TDC404TS125U2B /F-TXC444TS125U2B	125
105	74				64						
110	77				67						
115	81				71						
120	84				74						
125	88				78						
130	91				82						
135	95				86						
140	98				89						
145	102				93						
150	106				97						
155	109				101						
160	113				105						
165	116				109						
170	120				113						
175	123				117						
180	127				122						
183	129	Max.253mm			124						
184	129	Min.250mm	UL:157~247psi FM:157~247psi	3550	142	F-TDC405TS150U2B /F-TXC445TS150U2B	150	F-TDC444TS200U2B /F-TXC447TS200U2B	200	F-TDC444TS200U2B /F-TXC447TS200U2B	200
190	134				146						
195	137				149						
200	141				153						
205	144				156						
210	148				159						
215	151				162						
220	155				165						
225	158				168						
230	162				171						
235	165				174						
240	169				177						
245	172				180						
247	174	Max.315mm			181						
251	177	Min.320mm	UL:254~292psi FM:251~289psi	3550	198	F-TDC444TS200U2B /F-TXC447TS200U2B	200	F-TDC444TS200U2B /F-TXC447TS200U2B	200	F-TDC444TS200U2B /F-TXC447TS200U2B	200
255	179				201						
260	183				205						
265	186				209						
270	190				213						
275	193				216						
280	197				220						
285	200				224						
290	204				228						
292	205	Max.342mm			230						



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
312	219	Min.260mm	CNPA125-100-330X2 UL:312~574psi FM:313~564psi	3550	218	F-TDC444TS200U2B /F-TXC447TS200U2B	200	F-TDC449TS250U2B /F-TXC449TS250U2B	250	F-TDC447TS300U2B /F-TXC449TS300U2B	300				
315	222				220										
320	225				223										
325	229				226										
330	232				229										
335	236				233										
340	239				236										
345	243				239										
350	246				243										
355	250				246										
360	253				249										
365	257				253										
370	260				256	F-TDC449TS250U2B /F-TXC449TS250U2B	250								
375	264				260										
380	267				264										
385	271				268										
390	274				271										
395	278				275										
400	281				279										
405	285				283										
410	288				286										
415	292				290										
420	295				294										
425	299				298										
430	302				303										
435	306				307										
440	310				311	F-TDC447TS300U2B /F-TXC449TS300U2B	300								
445	313				315										
450	317				320										
455	320				324										
460	324				329										
465	327				334										
470	331				338										
475	334				343										
480	338				348										
485	341				353										
490	345				358										
495	348				363										
500	352				367	F-TDC449TS350U2B /F-TXC586/7TS350U2B	350								
505	355				373										
510	359				378										
515	362				383										
520	366				389										
525	369				394										
530	373				400										
535	376				405										
540	380				411										
545	383				416										
550	387				423										
555	390				428	F-TXC586/7TS400U2B	400								
560	394				435										
565	397				440										
570	401				446										
574	404	Max.334mm			451										



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



← PREV

RATED FLOW: 750us.gpm(170m³/h)

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
263	185	Min.430mm	CNPA200-150-450x2 UL:263~361psi FM:263~361psi	1800	265	F-TDC447T250U4B /F-TXC449T250U4B	250	NM6-114B	280	NM6-108G-EC	296
265	186				268			NM6-114D	296		
270	190				277						
275	193				285						
280	197				293	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-135B	338	NM6-132-EC	435
285	200				301			NM6-135	375		
290	204				309						
295	208				317						
300	211				324	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-128B	396		
305	215				331						
310	218				338						
315	222				345						
320	225				351						
325	229				357						
330	232				363						
335	236				368						
340	239				374						
345	243				379						
350	246				384						
355	250				389						
361	254	Max.500mm			395						



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 1000us.gpm(227m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
57	40	Min.220mm	CNPA200-150-310	2350	55	X					
60	42				58	X					
65	46				62	X					
70	49				67	X					
75	53				71	X					
80	56				76	X					
85	60				81	X					
90	63				86	X					
95	67				91	X					
100	70				96	X					
105	74				101	X					
110	77				106	X					
115	81				111	X					
120	84				117	X					
125	88				122	X					
130	91				128	X					
135	95				135	X					
140	98				143	X					
145	102				150	X					
147	103	Max.335mm			154	X					
72	51	Min.220mm	CNPA200-150-310	2600	69	X					
75	53				72	X					
80	56				78	X					
85	60				84	X					
90	63				90	X					
95	67				96	X					
100	70				102	X					
105	74				108	X					
110	77				113	X					
115	81				119	X					
120	84				125	X					
125	88				130	X					
130	91				136	X					
135	95				141	X					
140	98				147	X					
145	102				153	X					
150	106				160	X					
155	109				167	X					
160	113				174	X					
165	116				182	X					
170	120				190	X					
175	123				198	X					
180	127				208	X					
181	127	Max.335mm			211	X					
70	49	Min.200mm	CNPA150-125-200	2950	65	F-TDC326TS60U2B /F-TXC364TS60U2B	60	NM4-102C	75	NM4-105	86
75	53				69						
80	56				73						
85	60	UL: - psi FM: - psi			77	F-TDC365TS75U2B /F-TXC365TS75U2B	75				
90	63				81						
95	67				85						
98	69	Max.230mm			87	F-TDC365TS100U2B /F-TXC405TS100U2B	100			NM4-108B	121



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



PREV		RATED FLOW: 1000us.gpm(227m³/h)								NEXT	
HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
99	70	Min.245mm	CNPA150-125-250 UL:103~151psi FM:99~148psi	UL: 2980 FM: 2950	82	F-TDC365TS75U2B /F-TXC365TS75U2B	75	NM4-102B	95	NM4-105	86
100	70				83					NM4-108	94
105	74				88						
110	77				93	F-TDC365TS100U2B /F-TXC405TS100U2B	100				
115	81				99						
120	84				104						
125	88				110						
130	91				116						
135	95				122						
140	98				128						
145	102				134						
148	104	Max.285mm			138						
149	105	Min.280mm	CNPA150-125-310 UL:121~192psi FM:138~187psi	UL: 2980 FM: 2950	135	F-TDC404TS125U2B /F-TXC444TS125U2B	125	NM6-110B	148	NM6-110B	153
155	109				141						
160	113				146						
165	116				150						
170	120				155						
175	123				159						
180	127				163						
185	130				167						
188	132	Max.325mm			169						
189	133	Min.340mm	CNPA150-125-400 UL:192~265psi FM:189~257psi	UL: 2980 FM: 2950	162	F-TDC405TS150U2B /F-TXC445TS150U2B	150	NM6-110E	192	NM6-110E	192
195	137				168						
200	141				174						
205	144				180						
210	148				186						
216	152	Max.396mm			193						
217	153	Min.370mm	CNPA125-80-350 UL:220~270psi FM:217~265psi	2950	180			NM6-110D	239	NM6-110D	268
220	155				183						
225	158				190						
230	162				196						
235	165				203						
240	169				210						
245	172				217						
250	176				225						
255	179				233						
260	183				241						
265	186				249						
270	190	Max.395mm			257						
271	191	Min.385mm	CNPA200-150-420 UL:260~359psi FM:259~358psi	2950	271			NM6-108E	335	NM6-108E	335
275	193				278						
280	197				287						
285	200				296						
290	204				305						
295	208				314						
300	211				323						
304	214	Max.440mm			329						

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EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
305	215	Min.310mm	CNPA150-125-370X2	2950	261	F-TDC449TS250U2B /F-TXC449TS250U2B	250	NM6-108E	335	NM6-110D	268				
310	218				264										
315	222				269										
320	225				274										
325	229				279										
330	232				284										
335	236				290										
340	239				295										
345	243				300										
350	246				306										
355	250				311										
360	253				317										
365	257				322										
370	260				328										
375	264				334										
380	267				339										
385	271				345										
390	274				351										
395	278				356										
400	281				362										
405	285				368										
410	288				374										
415	292				380										
420	295				385										
425	299				391										
430	302				397										
435	306				403										
440	310				409										
445	313				415										
450	317				422										
455	320				428										
460	324				434										
465	327				440										
470	331				446										
475	334				453										
480	338				459										
485	341	Max.370mm			465										
40	28	Min.244mm	CNPA200-150-330	1760	37	F-TDC324T40U4B /F-TXC324T40U4B	40	NM6-105B	204	NM6-101-EC	180				
45	32				43										
50	35				49	F-TDC326T50U4B /F-TXC326T50U4B	50								
55	39				55										
60	42				62	F-TDC364T60U4B /F-TXC364T60U4B	60								
65	46				68										
70	49				75	F-TDC365T75U4B /F-TXC365T75U4B	75								
75	53	Max.339mm			82										
79	56	Min.177mm	CNPA150-125-200	3550	79	F-TDC365TS75U2B /F-TXC365TS75U2B	75	NM6-105B	204	NM6-101-EC	180				
80	56				80										
85	60				86										
90	63				91	F-TDC365TS100U2B /F-TXC405TS100U2B	100								
95	67				96										
100	70				101										
105	74				106										
110	77				110										
115	81				114										
120	84				117	F-TDC404TS125U2B /F-TXC444TS125U2B	125								
125	88				123										
129	91	Max.230mm			128										



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
130	91	Min.220mm	CNPA150-125-250 UL:130~225psi FM:130~223psi	3550	118	F-TDC404TS125U2B /F-TXC444TS125U2B	125	NM6-114B	280	NM6-108G-EC	296				
135	95				123										
140	98				129										
145	102				135										
150	106				140										
155	109				146	F-TDC405TS150U2B /F-TXC445TS150U2B	150								
160	113				152										
165	116				157										
170	120				164										
175	123				170										
180	127				176	F-TDC444TS200U2B /F-TXC447TS200U2B	200								
185	130				182										
190	134				188										
195	137				194										
200	141				200										
205	144		CNPA150-125-310 UL:182~283psi FM:211~283psi	3550	206	F-TDC449TS250U2B /F-TXC449TS250U2B	250								
210	148				212										
215	151				218										
220	155				224										
223	157	Max.285mm			227										
224	158	Min.280mm			234	F-TDC449TS250U2B /F-TXC449TS250U2B	250								
230	162				241										
235	165				247										
240	169				253										
245	172				259										
250	176				265	F-TDC447TS300U2B /F-TXC447TS300U2B	300								
255	179				270										
260	183				275										
265	186				279										
270	190				283										
275	193		CNPA200-150-450x2 UL:253~354psi FM:253~354psi	1800	287	F-TDC449T300U4B /F-TXC449T300U4B	300								
280	197				292										
283	199	Max.325mm			296										
253	178	Min.430mm			265	F-TDC447T250U4B /F-TXC449T250U4B	250								
255	179				268										
260	183				276										
265	186				284										
270	190				292										
275	193				300	F-TDC449T300U4B /F-TXC449T300U4B	300								
280	197				307										
285	200				315										
290	204				322										
295	208				329										
300	211				336	F-TDC449T350U4B /F-TXC587T350U4B	350								
305	215				343										
310	218				349										
315	222				355										
320	225				361										
325	229				367										
330	232				372										
335	236				377										
340	239				382										
345	243				387										
350	246				391										
354	249	Max.500mm			395										



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 1250us.gpm(284m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)				
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp	
74	52	Min.256mm	UL:55~87psi FM:54~86psi	CNPA200-150-310	2350	78	X					
80	56					83	X					
85	60					88	X					
90	63					93	X					
95	67					98	X					
100	70					103	X					
105	74					108	X					
110	77					114	X					
115	81					120	X					
120	84					126	X					
125	88					132	X					
130	91					139	X					
135	95					146	X					
141	99	Max.335mm				154	X					
95	67	Min.256mm	UL:96~177psi FM:95~172psi	CNPA200-150-310	2600	104	X					
100	70					110	X					
105	74					116	X					
110	77					121	X					
115	81					127	X					
120	84					132	X					
125	88					138	X					
130	91					143	X					
135	95					150	X					
140	98					156	X					
145	102					162	X					
150	106					169	X					
155	109					176	X					
160	113					182	X					
165	116					190	X					
170	120					198	X					
175	123					207	X					
177	125	Max.335mm				211	X					
113	79	Min.500/488mm	UL:113~192psi FM:114~193psi	CNPA200-150-600	1480	171	F-TDC445T200U4B /F-TXC447T200U4B	200	NM6-105B	188	NM6-105B	188
115	81					175						
120	84					184						
125	88					194						
130	91					204						
135	95					214	F-TDC447T250U4B /F-TXC449T250U4B	250	NM6-114B	244	NM6-114B	244
140	98					224						
145	102					235						
150	106					245						
155	109					256						
160	113					268	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-135B	340	NM6-135B	340
165	116					279						
170	120					293						
175	123					308						
180	127					324						
185	130		F-TDC449T350U4B /F-TXC586/7T350U4B	342	350	342	NM6-128B	346	NM6-128B	346	NM6-159C	
190	134					361						
193	136	Max.628mm				373						



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
83	58	Min.233mm	UL:83-149psi FM:83-149psi	CNPA200-150-250	84	F-TDC365TS75U2B /F-TXC365TS75U2B	75	NM4-102B	95	NM4-105	86				
85	60				86					NM4-108	94				
90	63				92	F-TDC365TS100U2B /F-TXC405TS100U2B	100	NM4-108B	117	NM4-108B	121				
95	67				98										
100	70				104	F-TDC404TS125U2B /F-TXC444TS125U2B	125								
105	74				110										
110	77				116	F-TDC404TS125U2B /F-TXC444TS125U2B	125	NM6-110B	148	NM6-110B	153				
115	81				122										
120	84				129	F-TDC405TS150U2B /F-TXC445TS150U2B	150	NM6-110E	192	NM6-110E	192				
125	88				135										
130	91				142	F-TDC405TS150U2B /F-TXC445TS150U2B	150								
135	95				149										
140	98	Max.300mm			155										
141	99	Min.240mm	UL:112-230psi FM:112-232psi	CNPA200-150-310	163	F-TDC405TS150U2B /F-TXC445TS150U2B	150	NM6-110E	192	NM6-110E	192				
145	102				167										
150	106				174	F-TDC444TS200U2B /F-TXC447TS200U2B	200	NM6-110D	239	NM6-110D	268				
155	109				180										
160	113				189	F-TDC444TS200U2B /F-TXC447TS200U2B	200								
165	116				196										
170	120				204	F-TDC449TS250U2B /F-TXC449TS250U2B	250	NM6-108E	335	NM6-108E	335				
175	123				212										
180	127				221	F-TDC449TS250U2B /F-TXC449TS250U2B	250								
185	130				230										
190	134				237	F-TDC449TS250U2B /F-TXC449TS250U2B	250	NM6-108E	335	NM6-108E	335				
195	137				244										
200	141				251	F-TDC447TS300U2B /F-TXC447TS300U2B	300								
205	144				258										
210	148				265	F-TDC447TS300U2B /F-TXC447TS300U2B	300								
215	151				272										
220	155				279	F-TDC447TS300U2B /F-TXC447TS300U2B	300								
225	158				285										
230	162				292	F-TDC447TS300U2B /F-TXC447TS300U2B	300								
232	163	Max.335mm			295										
240	169	Min.385mm	UL:241-346psi FM:240-345psi	CNPA200-150-420	252	F-TDC449TS250U2B /F-TXC449TS250U2B	250	NM6-108E	335	NM6-108E	335				
245	172				260										
250	176				267										
255	179				275	F-TDC447TS300U2B /F-TXC447TS300U2B	300								
260	183				284										
265	186				292	F-TDC447TS300U2B /F-TXC447TS300U2B	300								
270	190				300										
275	193				309	F-TDC447TS300U2B /F-TXC447TS300U2B	300								
280	197				317										
285	200				325	F-TDC447TS300U2B /F-TXC447TS300U2B	300								
290	204				334										
295	208				343	F-TDC447TS300U2B /F-TXC447TS300U2B	300								
300	211				351										
305	215				360	F-TDC447TS350U2B /F-TXC586/7TS350U2B	350								
310	218				368										
315	222				377	F-TDC449TS400U2B /F-TXC586/7TS400U2B	400								
320	225				386										
325	229				395	F-TDC449TS400U2B /F-TXC586/7TS400U2B	400								
330	232				403										
335	236				413	F-TDC449TS400U2B /F-TXC586/7TS400U2B	400								
340	239				421										
346	243	Max.440mm			432										

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**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)					
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp		
105	74	Min.202mm	CNPA200-150-250G UL:133-225psi FM:133-224psi	3550	154	F-TDC405TS150U2B /F-TXC445TS150U2B	150	X					
112	79	UL: - psi FM: - psi			156			X					
120	84				168			X					
127	89	Max.225mm			177	F-TDC444TS200U2B /F-TXC447TS200U2B	200	X					
132	95				185			X					
133	94	Min.233mm			145	F-TDC405TS150U2B /F-TXC445TS150U2B	150	X					
135	95	UL:133-225psi FM:133-224psi			148			X					
140	98				155			X					
145	102				162			X					
150	106				169			X					
155	109				177	F-TDC444TS200U2B /F-TXC447TS200U2B	200	X					
160	113				185			X					
165	116				193			X					
170	120				200			X					
175	123				208			X					
180	127	UL:168-281psi FM:168-247psi			217			X					
185	130				225			X					
190	134				233	F-TDC449TS250U2B /F-TXC449TS250U2B	250	X					
195	137				242			X					
200	141				250			X					
205	144				259			X					
210	148				268			X					
215	151				277			X					
220	155	Max.300mm			287			X					
221	155	Min.240mm	CNPA200-150-310 UL:168-281psi FM:168-247psi	3550	280	F-TDC449TS250U2B /F-TXC449TS250U2B	250	X					
225	158	285			X								
230	162	291			X								
235	165	297			X								
240	169	303			X								
245	172	309			X								
247	174	311			X								
248	174	312			X								
250	176	314			X								
255	179	320			X								
260	183	UL:70-131psi FM:70-131psi			324	F-TDC447TS300U2B /F-TXC449TS300U2B	300	X					
265	186				329			X					
270	190				334			X					
275	193				339			X					
280	197				344			X					
281	198	Max.310mm			345			X					
70	49	Min.326mm	CNPA200-150-375 UL:70-131psi FM:70-131psi	1760	74	F-TDC365T75U4B /F-TXC365T75U4B	75	X					
75	53	79			X								
80	56	85			X								
85	60	91			F-TDC405T100U4B /F-TXC405T100U4B	100	X						
90	63	99					X						
95	67	107					X						
100	70	115					X						
105	74	124			F-TDC405T125U4B /F-TXC444T125U4B	125	X						
110	77	134					X						
115	81	145					X						
120	84	157					X						
125	88	174			F-TDC444T150U4B /F-TXC445T150U4B	150	X						
131	92	Max.416mm					200	X					



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
106	75	Min.326mm	UL:106-188psi FM:106-187psi	CNPA200-150-375	125	2100	NM6-105B	208	NM6-101-EC	196	
110	77				131						
115	81				140						
120	84				148						
125	88				157						
130	91				166						
135	95				176						
140	98				185						
145	102				195						
150	106				205						
155	109				215						
160	113				225						
165	116				236						
170	120				247						
175	123				258						
180	127				269						
185	130				280						
187	132				285						
188	132	Max.416mm			288						
236	166	Min.430mm	UL:236-342psi FM:236-342psi	CNPA200-150-450x2	265	F-TDC447T250U4B /F-TXC449T250U4B	250	NM6-114B	280	NM6-108G-EC	296
240	169				270						
245	172				278						
250	176				285						
256	180				292	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-114D	298	NM6-132-EC	435
260	183				298						
265	186				305						
270	190				312						
275	193				319						
280	197				325						
285	200				332						
290	204				338						
295	208				345						
300	211				351	F-TDC449T350U4B /F-TXC586/7T350U4B	350	NM6-135	375	NM6-128B	396
305	215				357						
310	218				363						
315	222				368						
320	225				373						
325	229				379						
330	232				384						
335	236				388						
340	239				393						
342	241	Max.500mm			395						



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 1500us.gpm(341m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
71	50	Min.260mm	CNPA200-150-330 UL:55~87psi FM:54~86psi	2350	91	X					
75	53				97	X					
80	56				106	X					
85	60				114	X					
90	63				123	X					
95	67				132	X					
100	70				141	X					
105	74				151	X					
110	77				161	X					
115	81				171	X					
120	84				181	X					
125	88				192	X					
131	92	Max.339mm			205	X					
90	63	Min.260mm	CNPA200-150-330 UL:90~163psi	2600	122	X					
95	67				130	X					
100	70				138	X					
105	74				147	X					
110	77				156	X					
115	81				165	X					
120	84				174	X					
125	88				183	X					
130	91				192	X					
135	95				202	X					
140	98				211	X					
145	102				221	X					
150	106				231	X					
155	109				241	X					
160	113				252	X					
163	115	Max.339mm			258	X					
110	77	Min.500/488mm	CNPA200-150-600 UL:110~191psi FM:111~191psi	1480	171	F-TDC445T200U4B /F-TXC447T200U4B					
115	81				181	F-TDC445T200U4B /F-TXC447T200U4B					
120	84				191	F-TDC445T200U4B /F-TXC447T200U4B					
125	88				201	F-TDC445T200U4B /F-TXC447T200U4B					
130	91				211	F-TDC445T200U4B /F-TXC447T200U4B					
135	95				221	F-TDC445T200U4B /F-TXC447T200U4B					
140	98				231	F-TDC447T250U4B /F-TXC449T250U4B					
145	102				242	F-TDC447T250U4B /F-TXC449T250U4B					
150	106				252	F-TDC447T250U4B /F-TXC449T250U4B					
155	109				263	F-TDC447T250U4B /F-TXC449T250U4B					
160	113				274	F-TDC447T250U4B /F-TXC449T250U4B					
165	116				286	F-TDC449T300U4B /F-TXC449T300U4B					
170	120				300	F-TDC449T300U4B /F-TXC449T300U4B					
175	123				315	F-TDC449T300U4B /F-TXC449T300U4B					
180	127				332	F-TDC449T300U4B /F-TXC449T300U4B					
185	130				349	F-TDC449T350U4B /F-TXC586/7T350U4B					
190	134				369	F-TDC449T350U4B /F-TXC586/7T350U4B					
191	134	Max.628mm			373	F-TDC449T350U4B /F-TXC586/7T350U4B					
192	135	Min.500mm	CNPA200-150-640 UL:124~220psi FM:125~222psi	1480	393	F-TDC449T400U4B /F-TXC586/7T400U4B					
195	137				405	F-TDC449T400U4B /F-TXC586/7T400U4B					
200	141				426	F-TDC449T400U4B /F-TXC586/7T400U4B					
205	144				447	F-TDC449T400U4B /F-TXC586/7T400U4B					
210	148				466	F-TXC586/7T450U4B					
215	151				482	F-TXC586/7T450U4B					
220	155				494	F-TXC586/7T450U4B					
222	156	Max.664mm			497	F-TXC586/7T450U4B					

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**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)					
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp		
91	64	Min.235mm	CNPA200-150-250G UL:91-140psi FM:91-139psi	2950	114	F-TDC365TS100U2B /F-TXC405TS100U2B	100	NM4-108B	117	NM4-108B	121		
95	67	Max.286mm			120	F-TDC404TS125U2B /F-TXC444TS125U2B	125	NM6-110B	148	NM6-110B	153		
100	70				128								
105	74				135								
110	77				143	F-TDC405TS150U2B /F-TXC445TS150U2B	150	NM6-110E	192	NM6-110E	192		
115	81				151								
120	84				160								
125	88				168								
127	89				171								
128	90	Min.256mm	CNPA200-150-310 UL:109-221psi FM:123-222psi	2980	157	F-TDC405TS150U2B /F-TXC445TS150U2B	150	NM6-110E	192	NM6-110E	192		
130	91	159											
135	95	165											
140	98	172											
145	102	179			F-TDC444TS200U2B /F-TXC447TS200U2B	200	NM6-110D	239	NM6-110D	268			
150	106	186											
155	109	193											
160	113	201											
165	116	Max.335mm			209	F-TDC449TS250U2B /F-TXC449TS250U2B	250	NM6-108E	335	NM6-108E	335		
170	120				217								
175	123				226								
180	127				234								
185	130				241	F-TDC449TS250U2B /F-TXC449TS250U2B	300	NM6-108E	335	NM6-108E	335		
190	134				248								
195	137				256								
200	141				263								
205	144	CNPA200-150-420G UL:245-305psi FM:244-304psi			270	F-TDC447TS300U2B /F-TXC449TS300U2B	300	NM6-108E	335	NM6-108E	335		
210	148				277								
215	151				284								
220	155				292								
222	156				295	F-TDC447TS300U2B /F-TXC449TS300U2B	350						
244	172	Min.395mm	CNPA200-150-420G UL:245-305psi FM:244-304psi	2950	291	F-TDC447TS300U2B /F-TXC449TS300U2B	300	NM6-108E	335	NM6-108E	335		
250	176	299											
255	179	305											
260	183	312											
265	186	318			F-TDC447TS350U2B /F-TXC586/7TS350U2B	350	NM6-108E	335	NM6-108E	335			
270	190	325											
275	193	332											
280	197	339											
285	200	Max.426mm			346	F-TDC447TS350U2B /F-TXC586/7TS350U2B	350	NM6-108E	335	NM6-108E	335		
290	204				353								
295	208				360								
300	211				367								
305	215				374								
100	70	Min.202mm	CNPA200-150-250G UL: - psi FM: - psi	3550	154	F-TDC405TS150U2B /F-TXC445TS150U2B	150	NM6-108E	335	NM6-108E	335		
105	74	155											
110	77	162											
115	81	169											
120	84	176			F-TDC444TS200U2B /F-TXC447TS200U2B	200							
121	88	Max.225mm			178								



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
122	86	Min.233mm	UL:122-216psi FM:122-215psi	3550	145	F-TDC405TS150U2B /F-TXC445TS150U2B	150	NM6-105B	204	NM6-101-EC	180				
125	88				149										
130	91				156										
135	95				163										
140	98				170										
145	102				177										
150	106				185										
155	109				192										
160	113				200										
165	116				208										
170	120				216										
175	123				224										
180	127				232										
185	130				241										
190	134				249										
195	137				258										
200	141				267										
205	144				275										
210	148	Max.300mm			284										
211	148	Min.240mm	UL:158~269psi FM:159~237psi	3550	279	F-TDC449TS250U2B /F-TXC449TS250U2B	250								
215	151				284										
220	155				292										
225	158				297										
230	162				303										
235	165				308										
237	167				311										
238	167				312										
240	169				314										
245	172				320										
250	176				326										
255	179				331										
260	183				336										
265	186				341										
269	189	Max.310mm			345										
69	49	Min.335/325mm	UL:69-97psi FM:69-96psi	1760	94	F-TDC405T100U4B /F-TXC405T100U4B	100	NM6-105B	204	NM6-101-EC	180				
70	49				95										
75	53				102										
80	56				109										
85	60				117	F-TDC405T125U4B /F-TXC444T125U4B	125								
87	61	Min.378mm			120										
88	62	Min.372mm	UL:88-128psi FM:88-128psi	1760	105	F-TDC405T100U4B /F-TXC405T100U4B	100	NM6-105B	204	NM6-101-EC	180				
90	63				108										
95	67				116										
100	70				124	F-TDC405T125U4B /F-TXC444T125U4B	125								
105	74				134										
110	77				143										
115	81				154	F-TDC444T150U4B /F-TXC445T150U4B	150								
121	85	Max.416mm			172										



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
122	86	Min.415mm	UL:120-171psi FM:122-171psi	CNPA200-150-480	181	F-TDC445T200U4B /F-TXC447T200U4B	200	NM6-105B	204	NM6-108F-EC	241
125	88				188			NM6-114C	221		
130	91				201			NM6-114B	280		
135	95				213			NM6-114D	298		
140	98				227			NM6-135B	338		
145	102				240	F-TDC447T250U4B /F-TXC449T250U4B	250	NM6-108G-EC	296		
150	106				254			NM6-132-EC	435		
155	109				268						
160	113				283						
165	116				297	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-101-EC	196		
170	120				312			NM6-108F-EC	260		
171	120	Max.482mm			315			NM6-108G-EC	326		
100	70	Min.372mm	UL:100-187psi FM:100-186psi	CNPA200-150-375	125			NM6-105B	208		
105	74				133			NM6-114C	248		
110	77				140			NM6-114B NM6-114D	305		
115	81				148			NM6-114D	329		
120	84				157			NM6-108G-EC	326		
125	88				165						
130	91				174						
135	95				183						
140	98				192						
145	102				201						
150	106				211						
155	109				221						
160	113				231						
165	116				240						
170	120				251						
175	123				261						
180	127				272						
186	131				285						
187	132	Max.416mm			288						

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**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 2000us.gpm(454m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
82	58	Min.430mm	CNPA200-150-480 UL:55~87psi FM:54~86psi	1480	132	F-TDC405T125U4B /F-TXC444T125U4B	125	NM6-105B	188	NM6-105B	188
85	60				138						
90	63				148	F-TDC444T150U4B /F-TXC445T150U4B	150				
95	67				159						
100	70				170						
105	74				181	F-TDC445T200U4B /F-TXC447T200U4B	200	NM6-114B NM6-114D	244	NM6-114B NM6-114D	244
110	77				193				250		250
115	81				205						
119	84	Max.490mm			216						
120	84	Min.500/488mm	CNPA200-150-600 UL:101~185psi FM:102~186psi	1480	208	F-TDC445T200U4B /F-TXC447T200U4B	200	NM6-114B NM6-114D	244	NM6-114B NM6-114D	244
125	88				218				250		250
130	91				228	F-TDC447T250U4B /F-TXC449T250U4B	250				
135	95				239						
140	98				249						
145	102				260						
150	106				271						
155	109				281						
160	113				294	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-135B NM6-135	340	NM6-135B NM6-135	340
165	116				307				340		340
170	120				321						
175	123				336	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-127	436	NM6-127	436
180	127				352						
186	131	Max.628mm			373						
187	132	Min.500mm	CNPA200-150-640 UL:117~216psi FM:119~218psi	1480	396	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-127	436	NM6-127	436
190	134				408	F-TDC449T400U4B /F-TXC587T400U4B	400				
195	137				427						
200	141				447			NM6-159C	450	NM6-159C	450
205	144				463						
210	148				478	F-TXC586/7T450U4B	450	NM6-159	577	NM6-159 NM6-150	577
215	151				492				577		719
218	153	Max.664mm			497						
107	75	Min.260mm	CNPA200-150-330 UL:107~190psi FM:107~177psi	2950	173	F-TDC444TS200U2B /F-TXC447TS200U2B	200	NM6-110E	192	NM6-110E	192
110	77				179						
115	81				188						
120	84				198						
125	88				207			NM6-110D	239	NM6-110D	268
130	91				217						
135	95				226	F-TDC449TS250U2B /F-TXC449TS250U2B	250	NM6-108E	335	NM6-108E	335
140	98				236						
145	102				246						
150	106				255						
155	109				266						
160	113				276						
165	116				286	F-TDC447TS300U2B /F-TXC449TS300U2B	300	NM6-108E	335	NM6-108E	335
170	120				297						
175	123				307						
177	125				311						
180	127				319						
185	130				332						
190	134	Max.339mm			345						
64	45	Min.330mm	CNPA200-150-400G	1760	119	F-TDC405T125U4B /F-TXC444T125U4B	125	NM6-105B	204	NM6-101-EC	180
70	49	UL:64~104psi FM:64~104psi			131						
71	50	Max.412mm			133						
72	51	Min.358mm	CNPA200-150-395	1760	116	F-TDC405T125U4B /F-TXC444T125U4B	125	NM6-105B	204	NM6-101-EC	180
75	53				122						
80	56				131						
85	60				141						
90	63				151	F-TDC444T150U4B /F-TXC445T150U4B	150				
95	67	Max.400mm			162						



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 2000us.gpm(454m³/h)															
HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
95	67	Min.390mm	CNPAX200-150-400 UL:94-115psi FM:95-116psi	1760	153	F-TDC444T150U4B /F-TXC445T150U4B	150	NM6-105B	204	NM6-101-EC	180				
100	70	UL:94-115psi FM:95-116psi			160										
105	74				169										
110	77	Max.420mm			179										
116	82				191										
117	82	Min.415mm			191	F-TDC445T200U4B /F-TXC447T200U4B	200	NM6-105B	204	NM6-108F-EC	241				
120	84	UL:109-165psi FM:114-166psi			198										
125	88				210			NM6-114C	221						
130	91				222										
135	95				234	F-TDC447T250U4B /F-TXC449T250U4B	250	NM6-114B	280	NM6-108G-EC	296				
140	98				246										
145	102				260										
150	106				272			NM6-114D	298						
155	109	Max.482mm			285										
160	113				299	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-135B	338	NM6-132-EC	435				
165	116				313										
166	117				315										
167	117	Min.430mm	CNPAX200-150-480GL UL:122-188psi FM:122-188psi	1760	343	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-135	375	NM6-132-EC	435				
170	120	351													
175	123	365													
180	127	377			NM6-128B			396							
185	130	389													
188	132	Max.505mm										395			
111	78	Min.345mm	CNPAX200-150-400 UL:111-174psi FM:111-175psi	2100	182	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-105B	208	NM6-101-EC	196				
115	81	188													
120	84	196													
125	88	204			NM6-114C			248	NM6-108F-EC	260					
130	91	212													
135	95	221			NM6-114B			305	NM6-108G-EC	326					
140	98	231													
145	102	241			NM6-114D			329							
150	106	252													
155	109	Max.420mm			264	F-TDC449T400U4B /F-TXC587T400U4B	400	NM6-114B	375	NM6-132-EC	435				
160	113				278										
165	116				292										
170	120				308			NM6-128B	407						
175	123				326										
146	103	Min.415mm	CNPAX200-150-480 UL: - psi FM: - psi	2000	263	F-TDC449T400U4B /F-TXC587T400U4B	400	NM6-114B	298	NM6-114B	298				
150	106	274													
155	109	288			NM6-114D			320							
160	113	303													
165	116	318			NM6-128B			407	NM6-128B	407					
170	120	333													
175	123	348			NM6-127B			529							
180	127	364													
185	130	Max.490mm			380	F-TDC449T500S /F-TXC587T500S	500	NM6-127B	529	NM6-127B	529				
190	134				397										
195	137				413										
200	141				430			NM6-127B	529						
205	144				447										
210	148				465			NM6-127B	529						
215	151				483										
220	155				500										
224	158	Max.490mm			515										
225	158	Min.410mm	CNPAX250-200-500S	2000	478	F-TDC449T500S /F-TXC587T500S	500	NM6-127B	529	NM6-127B	529				
230	162	UL:149-234psi			489										
235	165	FM:152-240psi			500			NM6-127B	529						
240	169	Max.515mm			510										

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**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 2500us.gpm(568m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)						
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp			
84	59	Min.420mm	CNPA250-200-500 UL:55~87psi FM:54~86psi	1480	175	F-TDC445T200U4B /F-TXC447T200U4B	200	NM6-114B NM6-114D	244 250	NM6-114B NM6-114D	244 250			
85	60				177									
90	63				187									
95	67				197									
100	70				207									
105	74				218									
110	77				229									
115	81				240	F-TDC447T250U4B /F-TXC449T250U4B	250	NM6-135B	340	NM6-135B	340			
120	84				252									
125	88	Max.505mm			265									
126	89	Min.570mm	CNPA200-150-600 UL:126-175psi FM:128-176psi	1480	244	F-TDC447T250U4B /F-TXC449T250U4B	250	NM6-114B NM6-114D	244 250	NM6-114B NM6-114D	244 250			
130	91				252									
135	95				264									
140	98				275									
145	102				286									
150	106				298	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-135B	340	NM6-135B	340			
155	109				311									
160	113				325									
165	116				339									
170	120				353	F-TDC449T350U4B /F-TXC586/7T350U4B	350	NM6-127	436	NM6-127	436			
176	124	Max.628mm			373									
177	125	Min.500mm	CNPA200-150-640 UL:107~206psi FM:111~211psi	1480	393	F-TDC449T350U4B /F-TXC586/7T350U4B	350	NM6-127	436	NM6-127	436			
180	127				402									
185	130				423	F-TDC449T400U4B /F-TXC586/7T400U4B	400	NM6-159C	450	NM6-159C	450			
190	134				441									
195	137				456									
200	141				474	F-TXC586/7T450U4B	450	NM6-159	577	NM6-159	577			
205	144				487									
206	145				489									
207	146				491									
211	148	Max.664mm			497									
212	149	360mm	CNPA250-200-350	2980	511	F-TXC586/7T450U4B	450	X						
215	151				518			X						
220	155	UL:114-227psi FM:115-227psi			533			X						
225	158				548			X						
227	160	370mm			554			X						
62	44	Min.330mm	CNPA200-150-370	1760	134	F-TDC405T125U4B /F-TXC444T125U4B	125	NM6-105B	204	NM6-101-EC	180			
65	46				138									
70	49				150									
75	53				162									
80	56				174									
85	60				189	F-TDC445T200U4B /F-TXC447T200U4B	200	NM6-114B NM6-114D	280 298	NM6-108F-EC	241			
90	63				204									
95	67				225									
98	69	Max.375mm			239									
85	60	Min.330mm	CNPA200-150-370	2000	189									
90	63				203									
95	67				219									
100	70				236									
105	74				256									
110	77				275									
115	81				295									
120	84				316									
125	88				336									
127	89	Max.375mm			345									



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)						
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp			
111	78	Min.430mm	UL:111~181psi FM:111~180psi	CNPA200-150-480GL	218	F-TDC445T200U4B /F-TXC447T200U4B	200	NM6-114C	221	NM6-108F-EC	241			
115	81				228									
120	84				241	F-TDC447T250U4B /F-TXC449T250U4B	250	NM6-114B	280		NM6-108G-EC	296		
125	88				254									
130	91				267									
135	95				280									
140	98				293	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-114D	298					
145	102				305			NM6-135B	338					
150	106				318					NM6-132-EC	435			
155	109				331									
160	113				344	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-135	375					
165	116				356			NM6-128B	396					
170	120				369									
173	122	Max.505mm			376									
174	122	Min.560mm	UL: - psi FM: - psi	CNPA200-150-600S	354	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-135	375	NM6-132-EC	435			
175	123				356			NM6-128B	396					
180	127				369									
185	130				383					NM8-132-EC NM6-127B	625 512			
190	134				396	F-TDC449T400U4B /F-TXC587T400U4B	400	NM6-127	469					
195	137				410									
200	141				425									
205	144				440									
210	148				455	F-TDC449T450U4B /F-TXC586T7T450U4B	450	NM6-159C	546	NM8-132-EC NM6-127B	625 512			
215	151				471									
220	155				487									
225	158				503									
229	161	Max.605mm			516					NM6-114B NM6-114D NM6-128B NM6-127B	625			
135	95	Min.415mm	UL: - psi FM: - psi	CNPA200-150-480	263	X								
140	98				275	X								
145	102				288	X								
150	106				302	X								
155	109				316	X								
160	113				330	X								
165	116				344	X								
170	120				359	X								
175	123				373	X								
180	127				389	X								
185	130				404	X								
190	134				420	X								
195	137				435	X								
200	141				452	X								
205	144				468	X								
210	148				485	X								
215	151				502	X								
219	154	Max.490mm			515	X								
220	155	Min.410mm	UL:141~225psi FM:144~232psi	CNPA250-200-500S	485	X								
225	158				496	X								
230	162				506	X								
232	163	Max.515mm			510	X								



EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE



RATED FLOW: 3000us.gpm(681m³/h)

NEXT

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)				
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp	
95	67	Min.460mm	CNPA250-200-500 UL:55~87psi FM:54~86psi	1480	215	F-TDC445T200U4B /F-TXC447T200U4B	200	NM6-114B	244	NM6-114B	244	
100	70				226			NM6-114D	250	NM6-114D	250	
105	74				238							
110	77				250							
115	81				262			NM6-135B	340	NM6-135B	340	
119	84	Max.505mm			273			NM6-135	340	NM6-135	340	
120	84	Min.490mm			301	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-135B	340	NM6-135B	340	
125	88				315							
130	91				329							
135	95				344							
140	98				358	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-127	436	NM6-127	436	
145	102		CNPA250-200-600S UL: - psi FM: - psi	1480	373			NM6-159C	450	NM6-159C	450	
150	106				388							
155	109				402							
160	113				417	F-TDC449TS400U4B /F-TXC587T400U4B	400	NM6-159C	450	NM6-159	577	
161	113	Max.575mm			420			NM6-159	577	NM6-159	577	
162	114	Min.628mm	CNPA200-150-640 UL:162~194psi FM:166~200psi	1480	385	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-127	436	NM6-127	436	
165	116				396							
166	117				400							
170	120				414	F-TDC449T400U4B /F-TXC587T400U4B	400	NM6-159C	450	NM6-159	577	
175	123				431			NM6-159	577	NM6-159	577	
180	127				449			NM6-159	577	NM6-159	577	
185	130				466	F-TXC586/7T450U4B	450	NM6-159	577	NM6-159	577	
190	134				479			NM6-159	577	NM6-159	577	
194	136				488			NM6-159	577	NM6-159	577	
195	137				490			NM6-159	577	NM6-159	577	
200	141	Max.664mm			497			NM6-159	577	NM6-159	577	
201	141	Min.585mm	CNPA300-250-640 UL:176~249psi FM:176~243psi	1480	604	X		NM6-159B	680	NM6-159B	680	
205	144				617	X		NM6-150B	780	NM6-150B	780	
210	148				634	X						
215	151				650	X						
220	155				667	X						
225	158				684	X						
230	162				701	X						
235	165				718	X						
240	169				735	X						
243	171				745	X						
245	172				752	X						
249	175	Max.688mm			765	X						
115	81	Min.425mm	CNPA250-200-450 UL:115~147psi FM:119~148psi	1760	261	F-TDC447T250U4B /F-TXC449T250U4B	250	NM6-114B	280	NM6-108G-EC	296	
120	84				273			NM6-114D	298			
125	88				286							
130	91				300	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-135B	338			
135	95				313							
140	98				327							
145	102				341							
148	104	Max.469mm			347			NM6-135	375			
149	105	Min.445mm	CNPA250-200-500D UL: - psi FM: - psi	1760	352	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-135	375	NM6-132-EC	435	
150	106				355							
155	109				369							
160	113				384							
165	116				400							
170	120				416	F-TDC449T400U4B /F-TXC587T400U4B	400	NM6-128B	396			
175	123				432							
180	127				450							
183	129	Max.512mm			460							



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)					
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp		
184	129	Min.490mm	UL: - psi FM: - psi CNPA250-200-600S	1760	496	F-TDC449T450U4B /F-TXC586/7T450U4B	450	NM6-159C	546	NM8-132-EC	625		
185	130				501					NM6-127B	512		
190	134				516					NM8-132-EC	625		
195	137				532					NM6-159C	546		
200	141				548	F-TXC586/7T500U4B	500			NM8-132-EC	625		
205	144				565					NM6-159	673		
210	148				582					NM6-159	673		
215	151				601					NM6-159B	783		
220	155				620					NM6-150	771		
225	158				641					NM6-150B	858		
230	162				663					NM6-150B	858		
235	165				688					NM6-159B	783		
238	167	Max.575mm			703					NM6-150	771		
239	168	Min.485mm	CNPA250-200-600	1760	820					NM6-159B	783		
240	169	UL:166~246psi			824					NM6-150B	858		
245	172	FM:169~246psi			849					NM6-150B	858		
246	173	Max.580mm			853					NM6-150B	858		
158	111	Min.425mm	UL:158~197psi FM:159~198psi	2000	386					NM6-128B	407		
160	113				389					NM6-132-EC	472		
165	116				404					NM6-128B	407		
170	120				420					NM6-132-EC	472		
175	123				435					NM6-128	492		
180	127				451					NM6-127B	529		
185	130				467					NM8-132-EC	667		
190	134				484					NM6-127B	529		
195	137				501					NM10-128	611		
198	139	Max.469mm			511					NM10-128	611		
199	140	Min.445mm	UL: - psi FM: - psi CNPA250-200-500D	2000	492					NM8-128	492		
200	141				495					NM8-132-EC	667		
205	144				511					NM6-127B	529		
210	148				527					NM8-132-EC	667		
215	151				545					NM6-127B	529		
220	155				563					NM8-132-EC	667		
225	158				581					NM6-127B	529		
230	162				601					NM8-132-EC	667		
235	165				622					NM6-127B	529		
240	169				644					NM12-128	754		
244	172	Max.512mm			662					NM12-128	754		

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**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 3500us.gpm(795m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
107	75	Min.485mm	UL:55~87psi FM:54~86psi	1480	303	F-TDC449T300U4B /F-TXC449T300U4B	300	NM6-135B	340	NM6-135B	340
110	77				309						
115	81				322						
120	84				335						
125	88				350	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-127 NM6-159C	436 450	NM6-127 NM6-159C	436 450
130	91				366						
135	95				383						
140	98				400						
145	102				418	F-TDC449T400U4B /F-TXC587T400U4B	400	NM6-159	577	NM6-159 NM6-150	577 771
150	106				435						
155	109				452						
160	113				469						
165	116		CNPA250-200-600	1480	484	F-TXC586/7T450U4B	450	NM6-159	577	NM6-159 NM6-150	577 771
170	120				499						
175	123				514						
180	127				528						
184	129	Max.605mm			540						
185	130	Min.585mm	CNPA300-250-640	1480	579	X	NM6-159B	680	NM6-159B NM6-150	680 719	
190	134				595						
195	137				611						
200	141				627						
205	144				643						
210	148				659						
215	151				676						
220	155				692						
225	158				709						
230	162				725						
235	165				742						
240	169				759						
242	170	Max.688mm			766						
135	95	Min.460mm	CNPA250-200-500	1760	345	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-135	375	NM6-132-EC	435
140	98				359						
145	102				372						
150	106				385						
155	109				398						
160	113				412						
165	116				425	F-TDC449T400U4B /F-TXC587T400U4B	400	NM6-127	469	NM8-132-EC	625
170	120	Max.505mm			439						
171	120	Min.490mm	CNPA250-200-600S	1760	488						
175	123				500						
180	127				516	F-TXC586/7T450U4B	450	NM6-127B NM6-159C	512 546	NM8-132-EC NM6-127B	625 512
185	130				532						
190	134				548						
195	137				564						
200	141				581						
205	144				599						
210	148				617	TXC586/7T500U4B	500	NM6-159C	546	NM8-132-EC NM6-159	625 673
215	151				637						
220	155				657						
225	158				680						
230	162	Max.575mm			703						



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



◀ PREV

RATED FLOW: 3500us.gpm(795m³/h)

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
231	162	Min.485mm	CNPAX250-200-600	1760	801	X		NM6-150B	858	NM6-150B	858				
235	165	UL:160~241psi FM:163~242psi			820	X									
240	169	FM:163~242psi			843	X									
242	170	Max.580mm			853	X									
153	108	Min.420mm	CNPAX250-200-500	2000	448	X		NM8-128	492	NM6-132-EC NM6-127B	472 529				
155	109	UL:154~229psi			453	X									
160	113	FM:153~230psi			468	X									
164	115	Max.505mm			478	X									
165	116	Min.445mm	UL: - psi FM: - psi	2000	432	X		NM8-128	492	NM6-132-EC NM6-127B	472 529				
170	120				445	X									
175	123				459	X									
180	127				473	X									
185	130				488	X		NM8-132-EC NM6-127B	667 529	NM8-132-EC NM6-127B	667 529				
190	134				503	X									
195	137				519	X									
200	141				536	X		NM10-128	611	NM8-132-EC	667				
205	144				553	X									
210	148				570	X									
215	151				589	X									
220	155				607	X									
225	158				627	X									
230	162				648	X									
234	165	Max.512mm			662	X									



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 4000us.gpm(908m³/h)

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)									
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp						
115	81	Min.505mm	CNPA300-250-500	1480	365	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-127	436	NM6-127	436						
120	84	UL:55~87psi FM:54~86psi			385												
125	88				405	F-TDC449T400U4B /F-TXC587T400U4B	400	NM6-159C	450	NM6-159C	450						
130	91	UL:55~87psi FM:54~86psi			425												
135	95				446												
141	99	Max.569mm			471	F-TXC586/7T450U4B	450	NM6-159	577	NM6-159C	450						
142	100	Min.550mm	CNPA250-200-600	1480	439	F-TDC449T400U4B /F-TXC587T400U4B	400	NM6-159C	450	NM6-159C	450						
145	102	UL:142~176psi FM:142~176psi			450												
150	106				470	F-TXC586/7T450U4B	450	NM6-159	577	NM6-159	577						
155	109	UL:142~176psi FM:142~176psi			486												
160	113				502												
165	116	Max.605mm			515	F-TXC586/7T500U4B	500										
170	120				527												
176	124				540												
177	125	Min.585mm	CNPA300-250-640	1480	585	X	NM6-159B	680	NM6-159B	680							
180	127	UL:162~242psi FM:156~233psi			595												
185	130				610												
190	134				626												
195	137				643												
200	141				658												
205	144				675												
210	148				691												
215	151	Max.688mm			707	X	NM6-150B	780	NM6-150	719							
220	155				723												
225	158				739												
230	162				756												
233	164				766												
114	80	Min.430mm	CNPA300-250-500S	1760	357	X	NM6-135	375	NM6-132-EC	435							
115	81	UL:-psi FM:-psi			361												
120	84				377												
125	88				394												
130	91				411												
135	95				428												
140	98				446												
145	102				463												
150	106	Max.530mm			481	X	NM6-127	469	NM8-132-EC	625							
155	109				500												
160	113				520												
165	116				541												
170	120				562												
175	123				585												
179	126				605												
180	127	Min.485mm	CNPA250-200-600	1760	612	X	NM6-159	671	NM6-150	771							
185	130	UL:152~234psi FM:156~236psi			634												
190	134				656												
195	137				678												
200	141				699												
205	144				721												
210	148				742												
215	151	Max.580mm			763												
220	155				784	X	NM6-159B	778	NM6-150B	858							
225	158				805												
230	162				826												
234	165				844												
235	165	Min.540mm	CNPA300-250-600L	1760	1035	X	NM12-159B	1080	NM12-159B	1080							
240	169	UL:203~246psi			1067												
245	172	FM:203~245psi			1101												
246	173	Max.594mm			1108												

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**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 4500us.gpm(1022m³/h)

NEXT →

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
111	78	Min.505mm	CNPA300-250-500 UL:55~87psi FM:54~86psi	1480	366	F-TDC449T350U4B /F-TXC587T350U4B	350	NM6-127	436	NM6-127	436
115	81				381						
120	84				401						
125	88				421	F-TDC449T400U4B	400	NM6-159C	450	NM6-159C	450
130	91				441	/F-TXC587T400U4B					
135	95				462	F-TXC586/7T450U4B	450	NM6-159	577	NM6-159	577
140	98				482						
144	101	Max.569mm			499						
145	102	Min.565mm	CNPA300-250-600 UL:143~207psi FM:143~207psi	1450	535	F-TXC586/7T500U4B	500	NM6-159B	680	NM6-159B	680
150	106				561						
155	109				588						
160	113				616						
165	116				646						
170	120				676						
175	123				709						
180	127				743						
185	130				779						
190	134				815						
195	137				853						
200	141				893						
205	144	Max.660mm			935						
207	146				952						
200	141	Min.605mm	CNPA300-250-640G UL:184~284psi FM:184~283psi	1480	793						
205	144				820						
210	148				848						
215	151				876						
220	155				905						
225	158				935						
230	162				965						
235	165				995						
240	169				1027						
245	172				1057						
250	176				1091						
255	179				1126						
260	183				1162						
265	186				1198						
270	190				1232						
275	193				1267						
280	197				1298						
283	199	Max.710mm			1318						
118	83	Min.420mm	CNPA300-250-500 UL:121~222psi FM:118~220psi	1800	418	F-TDC449T400U4B /F-TXC587T400U4B	400	NM6-127	469	NM6-132-EC	435
120	84				426						
125	88				449						
130	91				472	F-TDC449T450U4B	450	NM6-127B	512	NM8-132-EC	625
135	95				496	/F-TXC586/7T450U4B				NM6-127B	512
140	98				519	TXC586/7T500U4B	500	NM6-159C	546	NM8-132-EC	625
145	102				543					NM6-159C	546
150	106				566						
155	109				589						
160	113				612						
165	116				635						
170	120				658						
174	122	Max.569mm			677						



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)					
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp		
175	123	Min.520mm	UL:175~226psi FM:177~228psi	CNPA250-200-600	624	X		NM6-159	671	NM8-132-EC	625		
180	127				645	X				NM6-159	673		
185	130				667	X							
190	134				690	X							
195	137				713	X							
200	141				735	X							
205	144				757	X							
210	148				779	X							
215	151				800	X							
220	155				820	X							
225	158				841	X							
228	160	Max.580mm			854	X							
229	161	Min.540mm	CNPA300-250-600L	1760	1010	X		NM12-159B	1080	NM12-159B	1080		
230	162	UL: - psi			1016	X				NM12-150	1100		
238	167	FM: - psi			1068	X							
244	172	Max.594mm			1108	X				NM12-159	1187		



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 5000us.gpm(1136m³/h)															
HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)							
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp				
131	92	Min.520mm	CNPA350-250-640 UL:139~206psi FM:139~206psi	1480	599	X		NM6-159B	680	NM6-159B	680				
135	95	UL:55~87psi FM:54~86psi			622	X									
138	97	Max.660mm			640	X									
139	98	Min.565mm			525	TXC586/7T500U4B		NM6-159B	680	NM6-159B	680				
145	102				555	500									
150	106				581	X		NM6-150B	780	NM6-150	719				
155	109				608	X									
160	113				637	X		NM6-150B	780	NM6-150B	780				
165	116				666	X									
170	120		CNPA300-250-600 UL:139~206psi FM:139~206psi	1450	696	X		NM12-159B	909	NM12-159B	909				
175	123				729	X									
180	127				762	X		NM12-150	980	NM12-150	980				
185	130				796	X									
190	134				832	X		NM12-150	980	NM12-150	980				
195	137				868	X									
200	141				907	X		NM12-150	980	NM12-150	980				
206	145	Max.660mm			956	X									
211	148	Min.645mm	CNPA300-250-640G UL:211~277psi FM:211~277psi	1480	896	X		NM12-150	980	NM12-150	980				
215	151				919	X									
220	155				948	X		NM12-150	980	NM12-150	980				
225	158				978	X									
230	162				1008	X		NM12-150	980	NM12-150	980				
235	165				1039	X									
240	169				1072	X		NM12-150	980	NM12-150	980				
245	172				1105	X									
250	176		CNPA300-250-640G UL:211~277psi FM:211~277psi	1480	1141	X		NM12-150	980	NM12-150	980				
255	179				1177	X									
260	183				1211	X		NM12-150	980	NM12-150	980				
265	186				1247	X									
270	190				1279	X		NM12-150	980	NM12-150	980				
277	195	Max.710mm			1326	X									
132	93	Min.450mm	CNPA300-250-500 UL:134~218psi FM:132~217psi	1800	504	X		NM8-159C	546	NM8-132-EC	625				
135	95				518	TXC586/7T500U4B				NM8-132-EC	625				
140	98				542	500				NM6-159C	546				
145	102				565	X		NM6-159	671	NM8-132-EC	625				
150	106				589	X				NM6-159	673				
155	109				612	X		NM6-159B	778	NM6-159B	773				
160	113				636	X				NM6-150B	858				
165	116				659	X		NM6-150B	858	NM6-150B	858				
170	120				682	X									
175	123		CNPA300-250-600L UL:197~240psi FM:197~241psi	1760	706	X		NM12-159B	1080	NM12-159B	1080				
180	127				729	X									
185	130				752	X		NM12-150	1100	NM12-150	1100				
190	134				774	X									
195	137				797	X		NM12-159	1187	NM12-159	1207				
200	141				821	X									
205	144		CNPA300-250-600L UL:197~240psi FM:197~241psi	1760	844	X		NM12-159B	1080	NM12-159B	1080				
210	148	Max.569mm			868	X									
211	148	Min.540mm			919	X		NM12-159B	1080	NM12-159B	1080				
215	151				946	X									
220	155		CNPA300-250-600L UL:197~240psi FM:197~241psi	1760	973	X		NM12-150	1100	NM12-150	1100				
228	160				1023	X									
235	165				1068	X		NM12-159	1187	NM12-159	1207				
241	170	Max.594mm			1108	X									



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 5500us.gpm(1249m ³ /h)												
HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)				
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp	
124	87	Min.540mm	CNPAX400-350-640 UL:55~87psi FM:54~86psi	1480	627	X		NM6-159B	680	NM6-159B	680	
130	91				662	X		NM6-150B	780	NM6-150	719	
135	95				693	X				NM6-150B	780	
140	98				725	X		NM12-159B NM12-150	909 980	NM12-159B NM12-150	909 980	
145	102				756	X				NM12-150	980	
150	106				789	X		NM12-159 NM12-150	1036	NM12-159	1036	
155	109				821	X						
160	113				854	X		NM12-150	980	NM12-150	980	
165	116				888	X						
170	120				922	X		NM12-150	980	NM12-150	980	
175	123				956	X						
180	127				990	X		NM12-159	1036	NM12-159	1036	
185	130				1025	X						
190	134				1061	X		NM12-159	1036	NM12-159	1036	
192	135	Max.655mm			1075	X						
205	144	Min.650mm	CNPAX400-300-750 UL:205~278psi	1480	1245	X		NM6-150B NM12-159B NM12-150	858	NM6-150B	858	
210	148				1275	X						
215	151				1310	X						
220	155				1346	X						
225	158				1384	X						
230	162				1424	X						
235	165				1467	X						
240	169				1512	X						
245	172				1559	X						
250	176				1608	X						
255	179				1659	X						
260	183				1713	X						
265	186				1770	X						
270	190				1830	X						
275	193				1893	X						
278	196	Max.758mm			1933	X		NM6-150B NM12-159B NM12-150	1080	NM12-150	1080	
191	134	Min.540mm	CNPAX300-250-600L UL:192~237psi FM:192~237psi	1760	835	X			1100	NM12-150	1100	
195	137				850	X			1100	NM12-150	1100	
200	141				878	X						
205	144				907	X						
210	148				937	X						
215	151				967	X						
220	155				997	X						
225	158				1028	X						
230	162				1060	X						
235	165				1092	X						
237	167	Max.594mm			1105	X						
238	167	Min.560mm	CNPAX350-250-640	1760	1237	X		NM12-150 NM12-159	1187	NM12-150 NM12-159	1187	
240	169	FM:223~243psi			1252	X						
243	171	Max.585mm			1276	X						



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 6000us.gpm(1363m³/h)

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)								
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp					
124	87	Min.520mm	UL:55~87psi FM:54~86psi	CNPA350-250-640	1480	599	X		NM6-159B	680	NM6-159B	680				
130	91					635	X									
135	95					665	X		NM6-150B	780	NM6-150	719				
140	98					695	X									
145	102					725	X		NM12-159B	909	NM12-159B	909				
150	106					755	X									
155	109					785	X		NM12-150	980	NM12-150	980				
160	113					815	X									
165	116					844	X		NM12-150	980	NM12-150	980				
170	120					872	X									
175	123					901	X		NM12-159	1036	NM12-159	1036				
180	127					929	X									
185	130		UL:204~277psi	CNPA400-300-750	1480	957	X									
190	134					985	X		NM12-150	980	NM12-150	980				
195	137					1012	X									
200	141					1036	X		NM12-159	1036	NM12-159	1036				
205	144					1065	X									
209	147	Max.660mm				1087	X									
210	148	Min.650mm				1285	X		CNPA400-300-750	1480	1760	1760				
215	151					1320	X									
220	155					1357	X									
225	158					1397	X									
230	162					1438	X									
235	165					1481	X									
240	169					1526	X									
245	172					1573	X									
250	176					1622	X									
255	179					1673	X									
260	183					1729	X									
265	186					1784	X									
270	190					1845	X									
275	193					1907	X									
277	195	Max.758mm				1933	X									
185	130	Min.540mm	UL:186~232psi FM:187~233psi	CNPA300-250-600L	1760	835	X		NM6-150B	858	NM6-150B	858				
190	134					855	X									
195	137					883	X									
200	141					911	X		NM12-159B	1080	NM12-159B	1080				
205	144					939	X									
210	148					968	X		NM12-150	1100	NM12-150	1100				
215	151					997	X									
220	155					1027	X									
225	158					1058	X									
233	164	Max.594mm				1108	X		NM12-159	1187	NM12-159	1207				
234	165	Min.560mm				1239	X									
240	169		UL:220~280psi FM:219~239psi	CNPA350-250-640	1760	1283	X									
245	172					1319	X									
250	176					1354	X									
255	179					1389	X									
260	183					1425	X									
265	186					1463	X									
270	190					1503	X									
275	193					1545	X									
280	197	Max.630mm				1588	X									

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**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 6500us.gpm(1476m ³ /h)											
HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
116	82	Min.540mm	CNPAX400-350-640 UL:55~87psi FM:54~86psi	1480	627	X		NM6-159B	680	NM6-159B	680
120	84				647	X		NM6-150B	780	NM6-150	719
125	88				677	X		NM6-150B	780	NM6-150B	780
130	91				708	X		NM12-159B	909	NM12-159B	909
135	95				739	X		NM12-150	980	NM12-150	980
140	98				770	X		NM12-150	980	NM12-150	980
145	102				802	X		NM12-159	1036	NM12-159	1036
150	106				834	X					
155	109				867	X					
160	113				900	X					
165	116				933	X					
170	120				967	X					
175	123				1002	X					
180	127				1036	X					
186	131	Max.655mm			1079	X					
203	143	660mm UL:205psi FM:203psi	CNPAX350-250-640	1480	1074	X					
205	144	Min.650mm	CNPAX400-300-750 UL:203~276psi	1480	1265	X					
210	148				1299	X					
215	151				1335	X					
220	155				1373	X					
225	158				1413	X					
230	162				1454	X					
235	165				1498	X					
240	169				1544	X					
245	172				1592	X					
250	176				1641	X					
255	179				1692	X					
260	183				1745	X					
265	186				1801	X					
270	190				1859	X					
275	193				1921	X					
276	194	Max.758mm			1933	X					
216	152	Min.560mm	CNPAX350-250-640 UL:216~276psi FM:215~235psi	1760	1131	X		NM12-159	1187	NM12-159	1207
220	155				1163	X					
225	158				1202	X					
230	162				1240	X					
235	165				1276	X					
240	169				1312	X					
245	172				1347	X					
250	176				1381	X					
255	179				1414	X					
260	183				1452	X					
265	186				1492	X					
270	190				1534	X					
275	193				1578	X					
276	194	Max.630mm			1588	X					



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 7000us.gpm(1590m ³ /h)												
HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)				
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp	
112	79	Min.540mm	UL:55~87psi FM:54~86psi	CNPA400-350-640	1480	627	X		NM6-159B	680	NM6-159B	680
115	81					642	X		NM6-150B	780	NM6-150	719
120	84					672	X		NM6-150B		NM6-150B	780
125	88					702	X		NM12-159B	909	NM12-159B	909
130	91					733	X		NM12-150	980	NM12-150	980
135	95					764	X		NM12-150	980	NM12-150	980
140	98					795	X		NM12-159	1036	NM12-159	1036
145	102					827	X					
150	106					859	X					
155	109					892	X					
160	113					925	X					
165	116					959	X					
170	120					993	X					
175	123					1027	X					
182	128	Max.655mm				1076	X					
200	141	660mm UL: 201psi FM:200psi	CNPA350-250-640	1480	1081	X						
200	141		UL:200~274psi	CNPA400-300-750	1480	1245	X					
205	144					1279	X					
210	148					1314	X					
215	151					1352	X					
220	155					1391	X					
225	158					1432	X					
230	162					1474	X					
235	165					1519	X					
240	169					1565	X					
245	172					1613	X					
250	176					1663	X					
255	179					1714	X					
260	183					1769	X					
265	186					1825	X					
270	190					1884	X					
274	193	Max.758mm				1933	X					
210	148	Min.560mm	UL:211~271psi FM:210~230psi	CNPA350-250-640	1760	1125	X		NM12-159	1187	NM12-159	1207
215	151					1165	X					
220	155					1204	X					
225	158					1241	X					
230	162					1276	X					
235	165					1311	X					
240	169					1345	X					
245	172					1377	X					
250	176					1408	X					
255	179					1446	X					
260	183					1485	X					
265	186					1528	X					
270	190					1571	X					
271	191	Max.630mm				1581	X					



**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 7500us.gpm(1703m³/h)

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)				
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp	
109	77	Min.540mm	UL:55~87psi FM:54~86psi	CNPA400-350-640	1480	627	X		NM6-159B	680	NM6-159B	680
115	81					664	X		NM6-150B	780	NM6-150	719
120	84					695	X		NM6-150B		NM6-150B	780
125	88					727	X		NM12-159B	909	NM12-159B	909
130	91					759	X		NM12-150	980	NM12-150	980
135	95					791	X		NM12-150	980	NM12-150	980
140	98					822	X		NM12-159	1036	NM12-159	1036
145	102					854	X					
150	106					886	X					
155	109					920	X					
160	113					953	X					
165	116					986	X					
170	120					1020	X					
175	123					1055	X					
179	126	Max.655mm				1082	X					
193	136	Max.600mm UL:40Epsi	CNPA350-250-640	1480	1074	X						
197	139	Min.650mm	UL:197~272psi	CNPA400-300-750	1480	1247	X					
200	141					1266	X					
205	144					1299	X					
210	148					1335	X					
215	151					1373	X					
220	155					1413	X					
225	158					1455	X					
230	162					1499	X					
235	165					1544	X					
240	169					1591	X					
245	172					1640	X					
250	176					1690	X					
255	179					1741	X					
260	183					1795	X					
265	186					1851	X					
270	190					1909	X					
272	191	Max.758mm				1933	X					
204	144	Min.560mm	UL:205~267psi FM:205~224psi	CNPA350-250-640	1760	1129	X		NM12-159	1187	NM12-159	1207
210	148					1172	X					
215	151					1211	X					
220	155					1248	X					
225	158					1284	X					
230	162					1317	X					
235	165					1348	X					
240	169					1379	X					
245	172					1408	X					
250	176					1445	X					
255	179					1483	X					
260	183					1524	X					
265	186					1569	X					
267	188	Max.630mm	CNPA350-250-640	1760	1588	X						

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**EBARA CNPAX DOUBLE SUCTION HORIZONTAL SPLIT CASE CENTRIFUGAL
UL LISTED/FM APPROVED FIRE PUMPS DRIVE SELECTION TABLE**



RATED FLOW: 8000us.gpm(1817m³/h)

HEAD (UL&FM)		IMPELLER	PUMP (UL&FM)	SPEED	MAX SHAFT POWER	MOTOR DRIVER (UL)		DIESEL ENGINE DRIVER (UL/FM/T3)			
psi	meter	Dia.mm	MODEL CNPAX	rpm	hp	MODEL NEMA SF:1.15 ODP/TEFC	hp	MODEL (UL&FM)	hp	MODEL (UL/T3)	hp
223	157	Min.695mm	UL:55~87psi FM:54~86psi	CNPA400-300-750	1480	1464	X				
225	158					1482	X				
230	162					1526	X				
235	165					1573	X				
240	169					1621	X				
245	172					1671	X				
250	176					1723	X				
255	179					1776	X				
260	183					1830	X				
265	186					1887	X				
269	189	Max.758mm				1933	X				
117	82	Min.540mm	UL:117~192psi	CNPA400-350-640	1540	705	X				
120	84					723	X				
125	88					755	X				
130	91					788	X				
135	95					821	X				
140	98					854	X				
145	102					888	X				
150	106					923	X				
155	109					957	X				
160	113					992	X				
165	116					1027	X				
170	120					1063	X				
175	123					1098	X				
180	127					1133	X				
185	130					1169	X				
192	135	Max.655mm				1220	X				
239	168	Min.560mm	FM:239~261psi	CNPA350-250-640	1760	1409	X				
240	169					1415	X				
245	172					1450	X				
250	176					1489	X				
255	179					1532	X				
260	183					1578	X				
261	184	Max.630mm				1588	X				

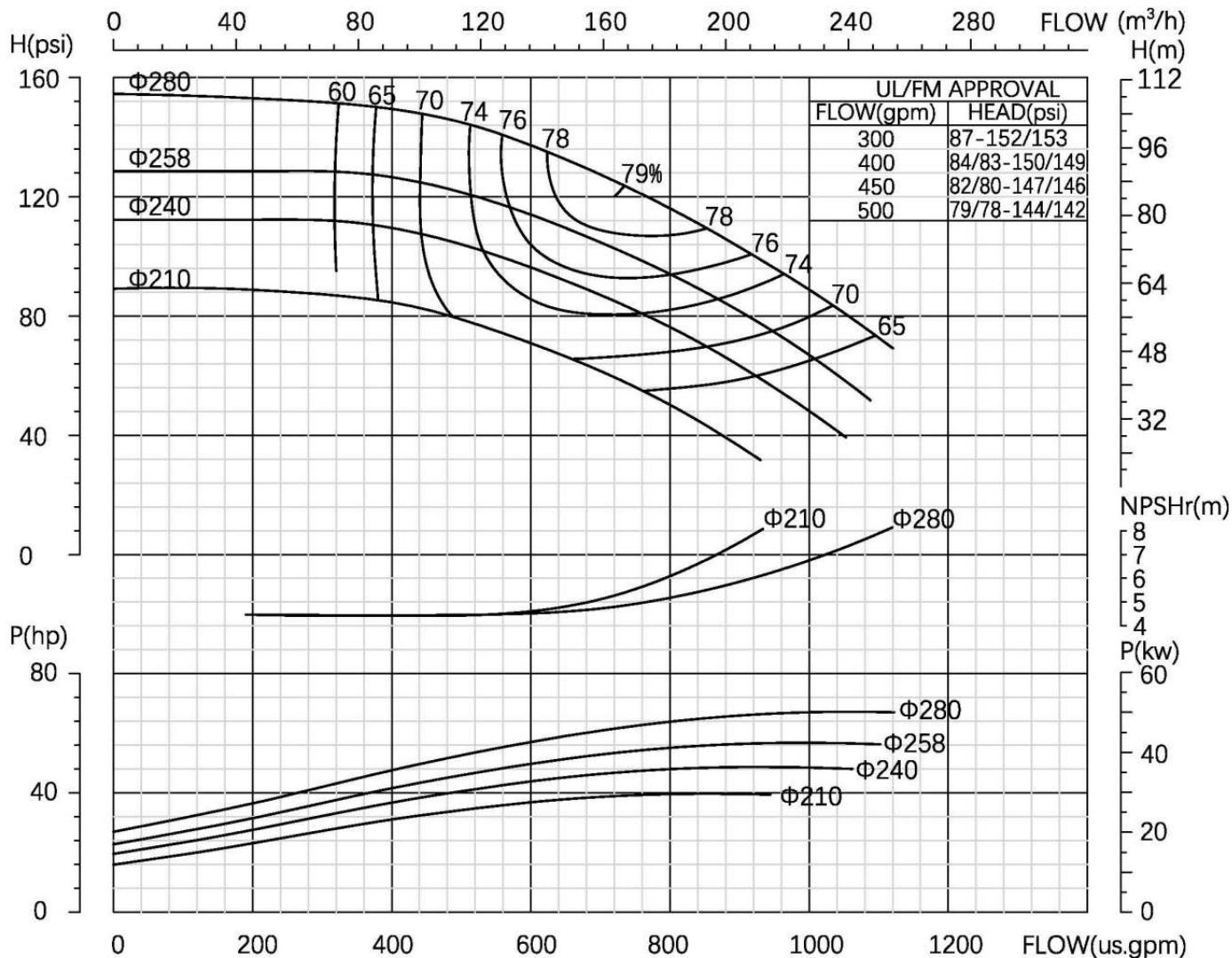
ATTENTION:

- 1: A deduction of 3% from engine horsepower rating at standard SAE conditions shall be made for diesel engines for each 1000ft.(305m) altitude above 300ft.(91.4m).
- 2: A deduction of 1 percent from engine horsepower rating as corrected to standard SAE conditions shall be made for diesel engines for every 10°F(5.6°C) above 77°F(25°C) ambient temperature.
- 3: NM-XXX-EC,T3,NMFIRE
- 4: CFP-F,T3,CUMMINS FIRE



PERFORMANCE CURVES - CNPAx

CNPA100-80-250



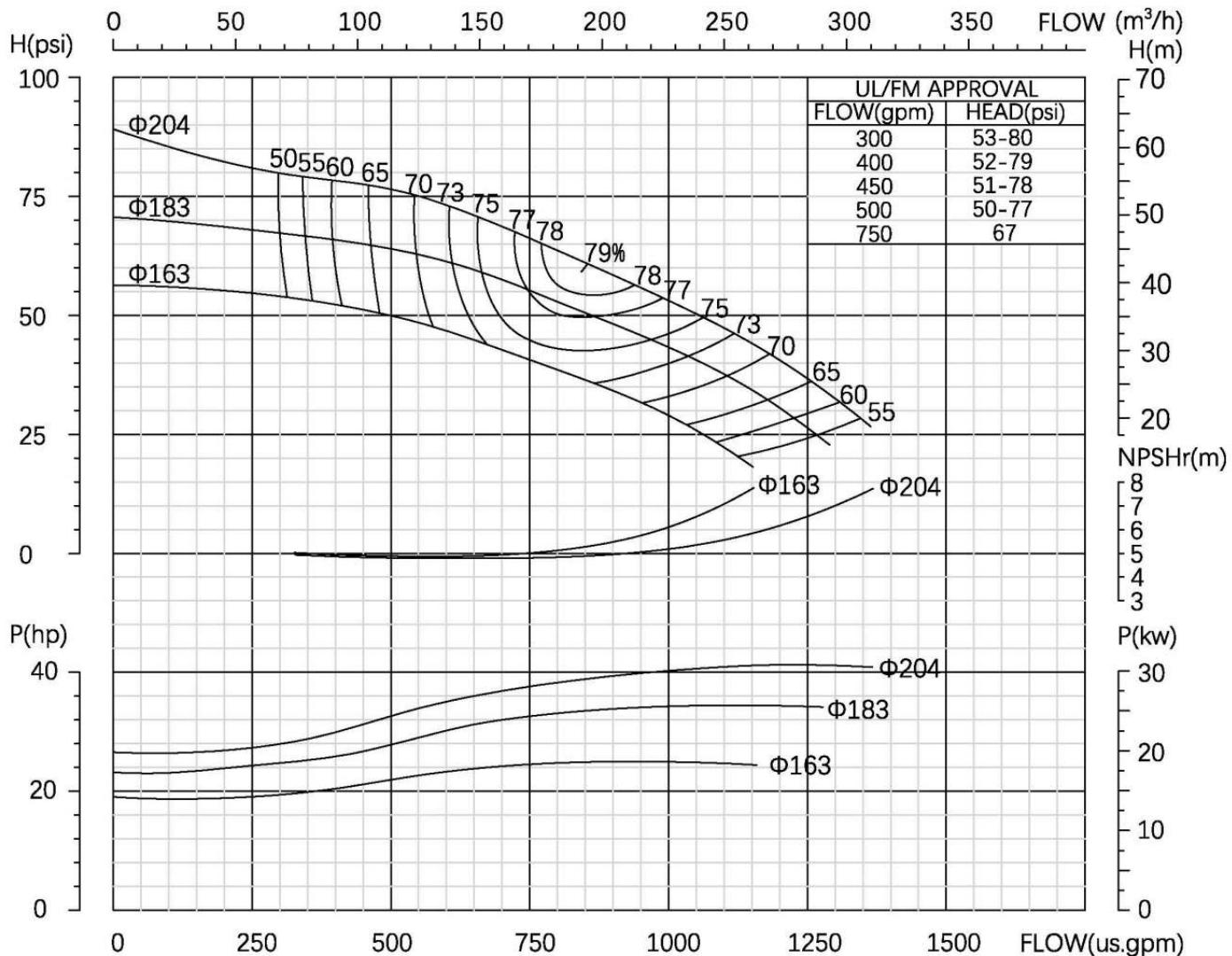
Flange rating(suction/discharge) : class 250, RF
Size : 4x3inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2980rpm
Max working pressure,allowable : 305psi
Max suction pressure,allowable : 75psi
Max brake horse power : 39~67hp

Curve No.: CNPA235001@CNPA100-80-250@2980rpm@300→500usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-80-200



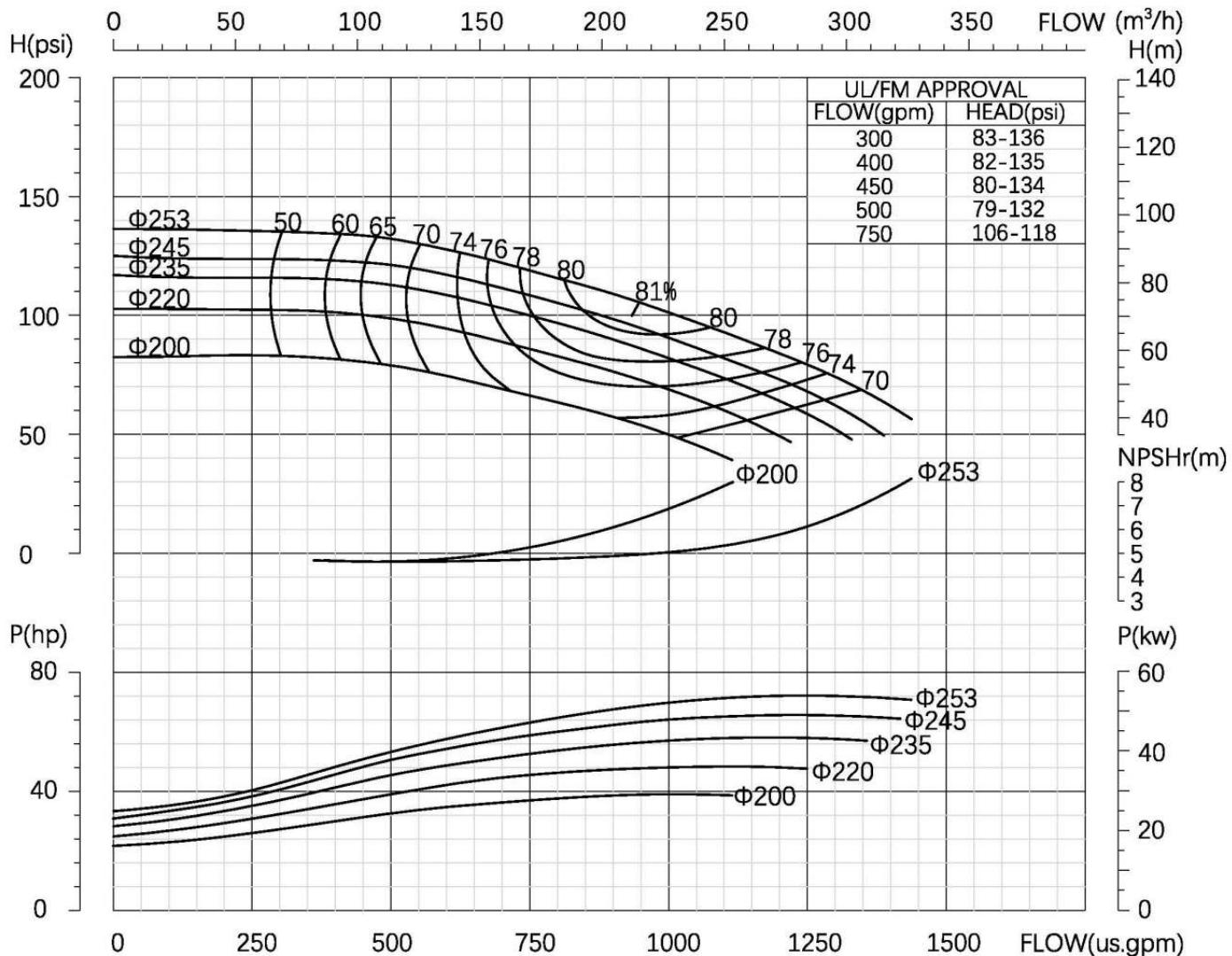
Flange rating(suction/discharge) : class 250, RF
Size : 5x3inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2980rpm
Max working pressure,allowable : 200psi
Max suction pressure,allowable : 75psi
Max brake horse power : 25~41hp

Curve No.: CNPA205001@CNPA125-80-200@2980RPM@300→750usGPM



PERFORMANCE CURVES - CNPAx

CNPA125-80-250



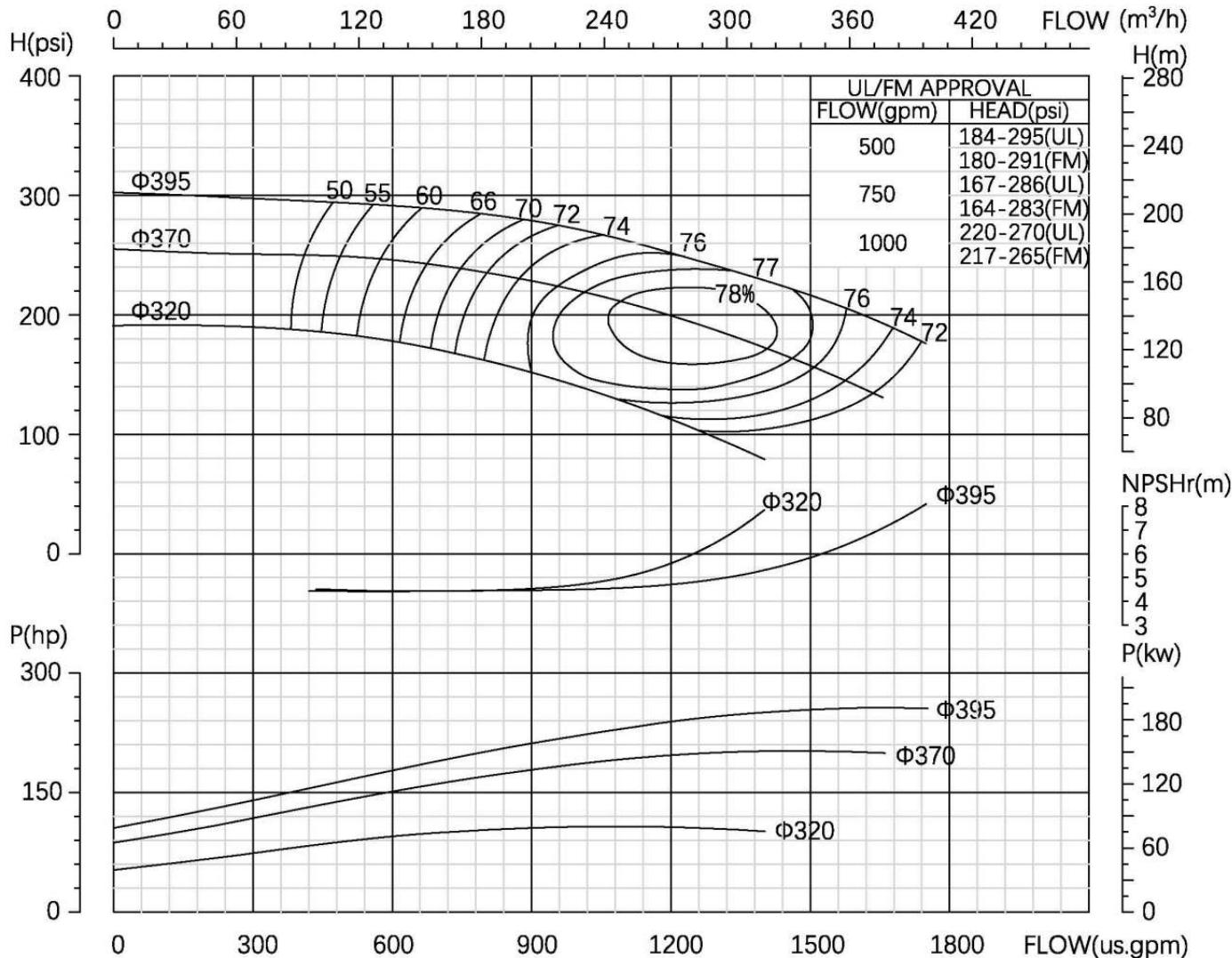
Flange rating(suction/discharge) : class 250, RF
Size : 5x3inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2950rpm
Max working pressure,allowable : 280psi
Max suction pressure,allowable : 75psi
Max brake horse power : 39~72hp

Curve No.: CNPA205002@CNPA125-80-250@2950rpm@300→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-80-350



Flange rating(suction/discharge) : class 250, RF

Size : 5x3inch

Stages : 1

Frequency : 50Hz

Speed,rated : 2950rpm

Max working pressure,allowable : 380psi

Max suction pressure,allowable : 75psi

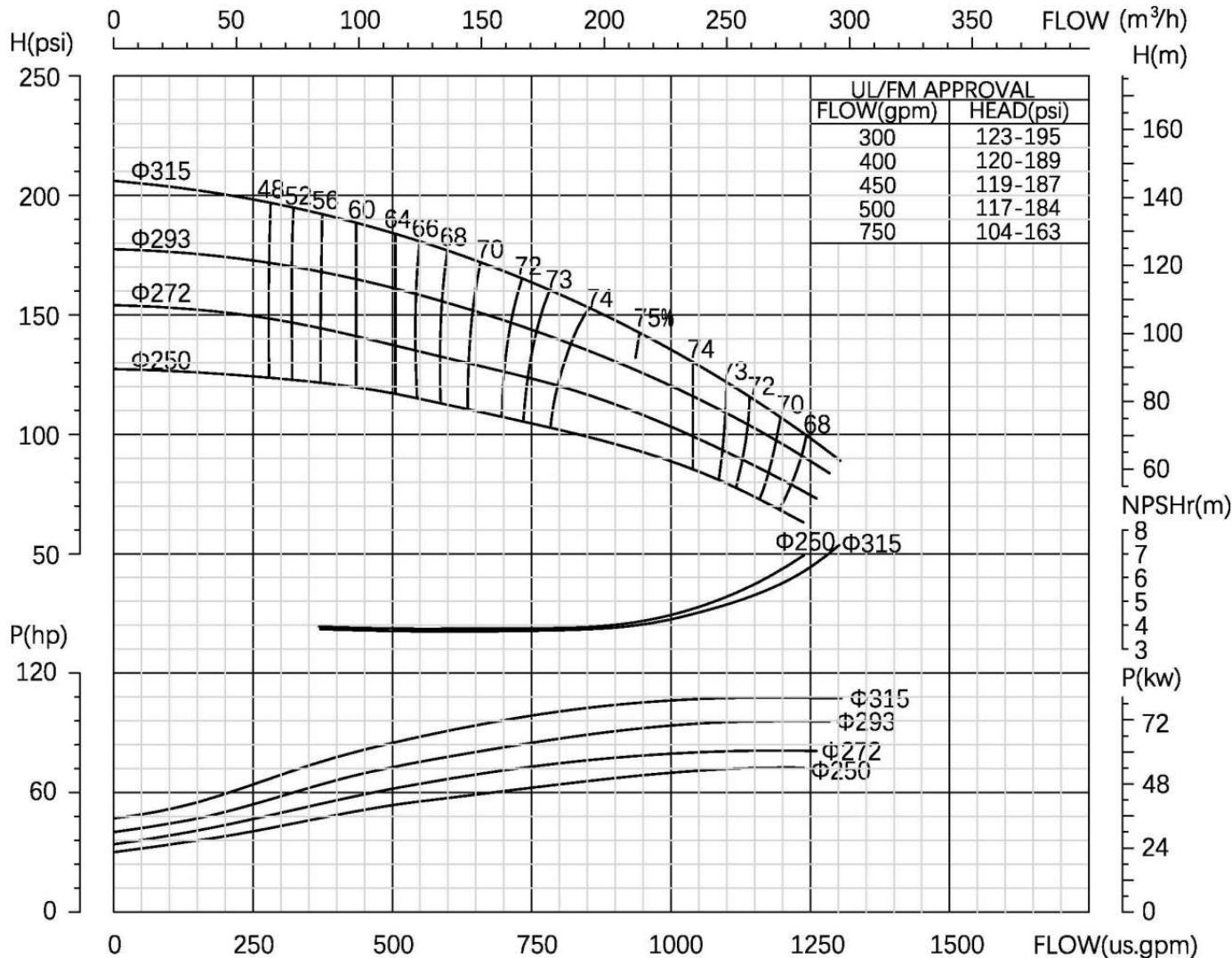
Max brake horse power : 108~257hp

Curve No.: CNPA205003@CNPA125-80-350@2950rpm@500→1000usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-100-300



Flange rating(suction/discharge) : class 250, RF

Size : 5x4inch

Stages : 1

Frequency : 50Hz

Speed,rated : 2980rpm

Max working pressure,allowable : 400psi

Max suction pressure,allowable : 75psi

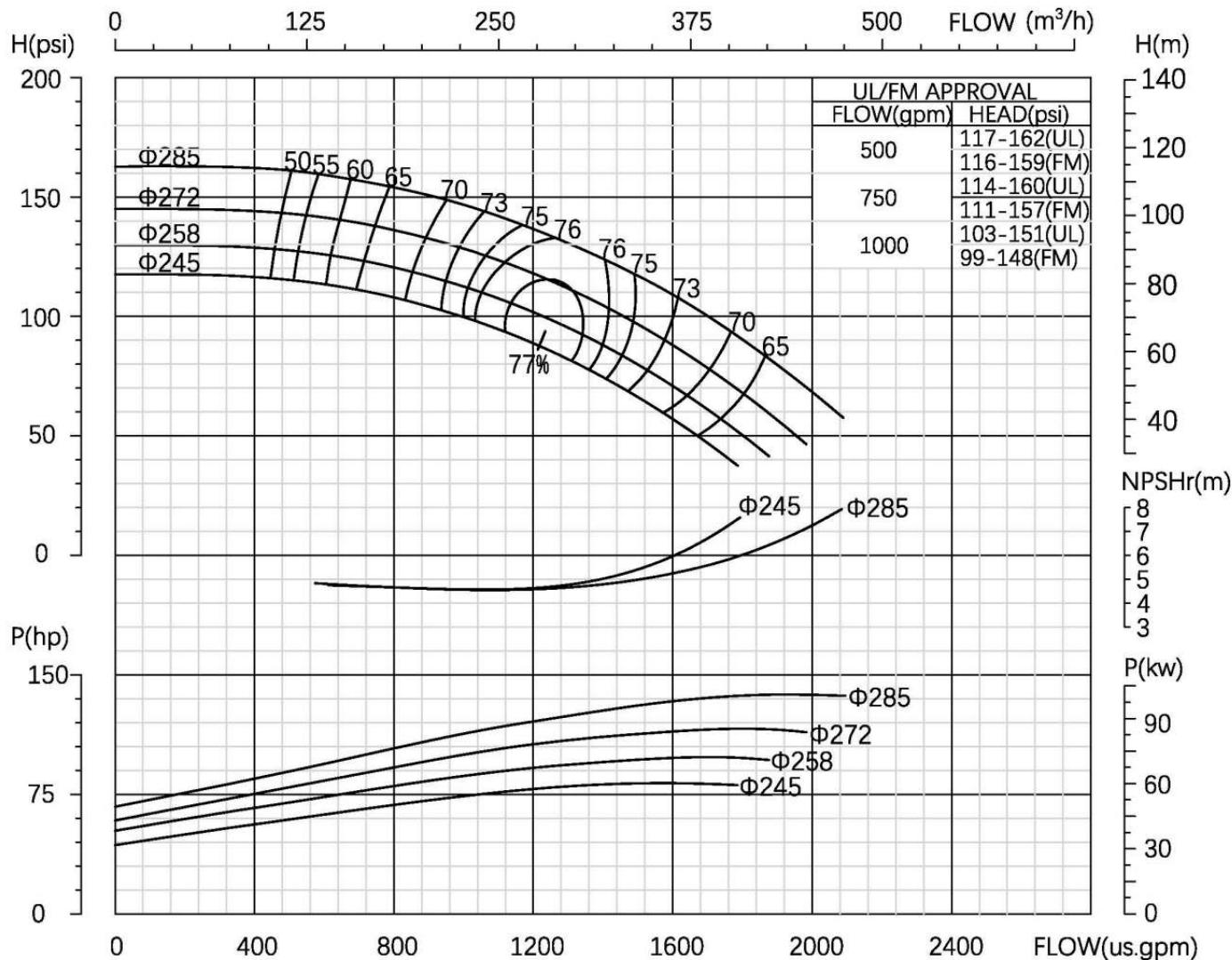
Max brake horse power : 73~107hp

Curve No.: CNPA235005@CNPA125-100-300@2980rpm@300→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA150-125-250



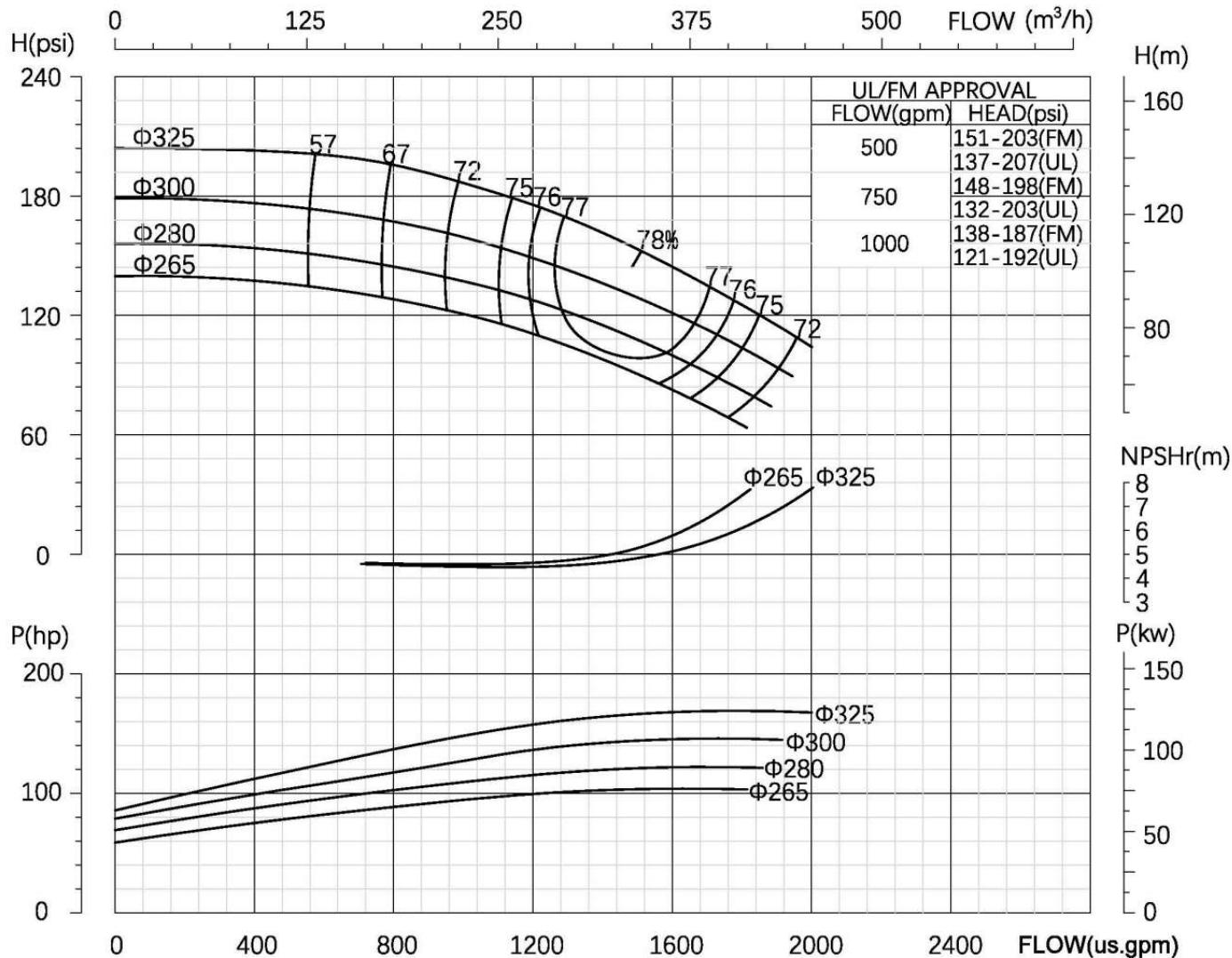
Flange rating(suction/discharge) : class 250, RF
Size : 6x5inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2980rpm(UL),2950rpm(FM)
Max working pressure,allowable : 310psi
Max suction pressure,allowable : 75psi
Max brake horse power : 82~138hp

Curve No.: CNPA235007@CNPA150-125-250@2950-2980rpm@500→1000usgpm



PERFORMANCE CURVES - CNPAx

CNPA150-125-310



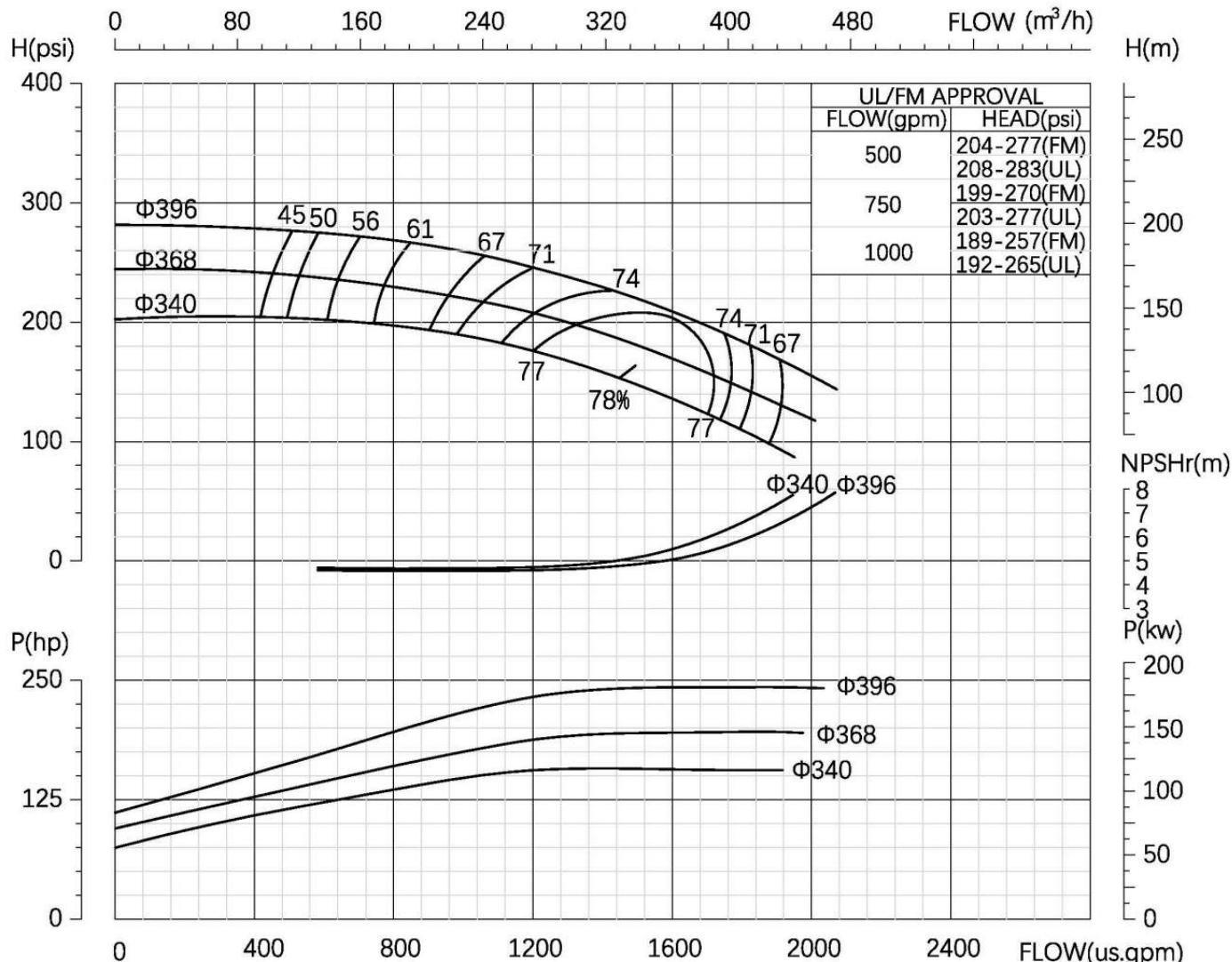
Flange rating(suction/discharge) : class 250, RF
Size : 6x5inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2950rpm(FM),2980rpm(UL)
Max working pressure,allowable : 370psi
Max suction pressure,allowable : 75psi
Max brake horse power : 104~169hp

Curve No.: CNPA205008@CNPA150-125-310@2950-2980rpm@500→1000usgpm



PERFORMANCE CURVES - CNPAx

CNPA150-125-400

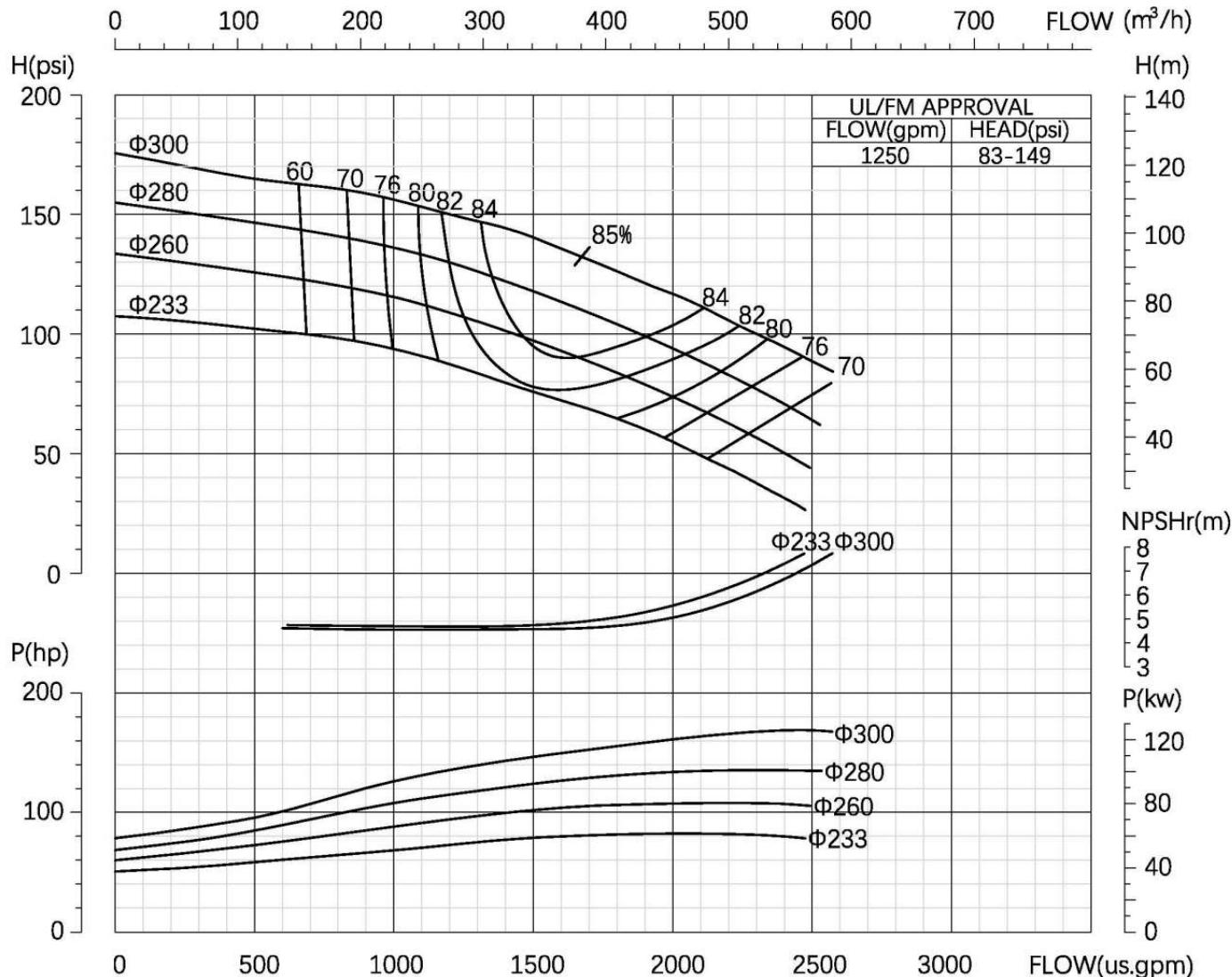


Curve No.: CNPA205009@CNPA150-125-400@2950-2980rpm@500→1000usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-250



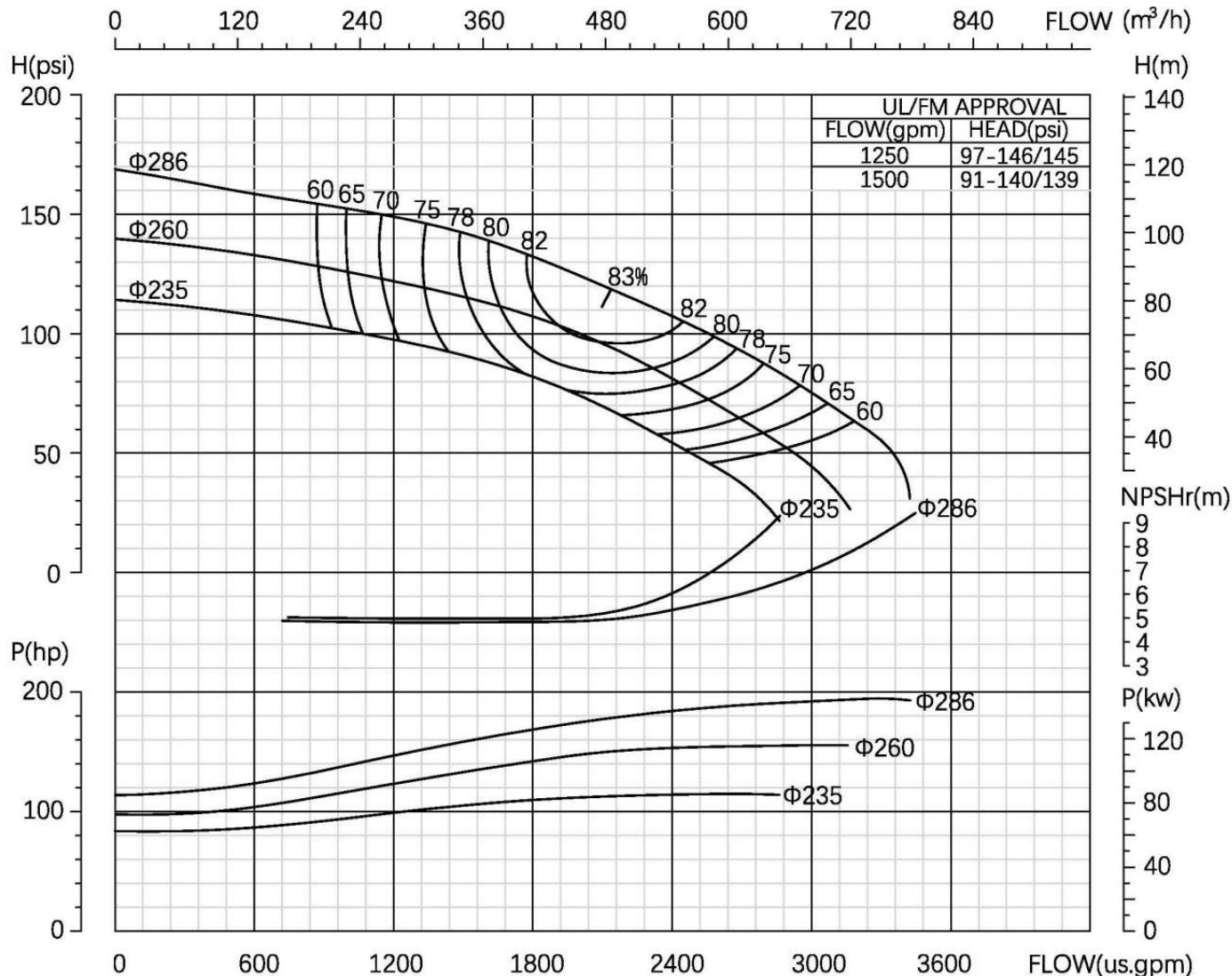
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2950rpm
Max working pressure,allowable : 330psi
Max suction pressure,allowable : 75psi
Max brake horse power : 82-168hp

Curve No.: CNPA205010@CNPA200-150-250@2950rpm@1250usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-250G



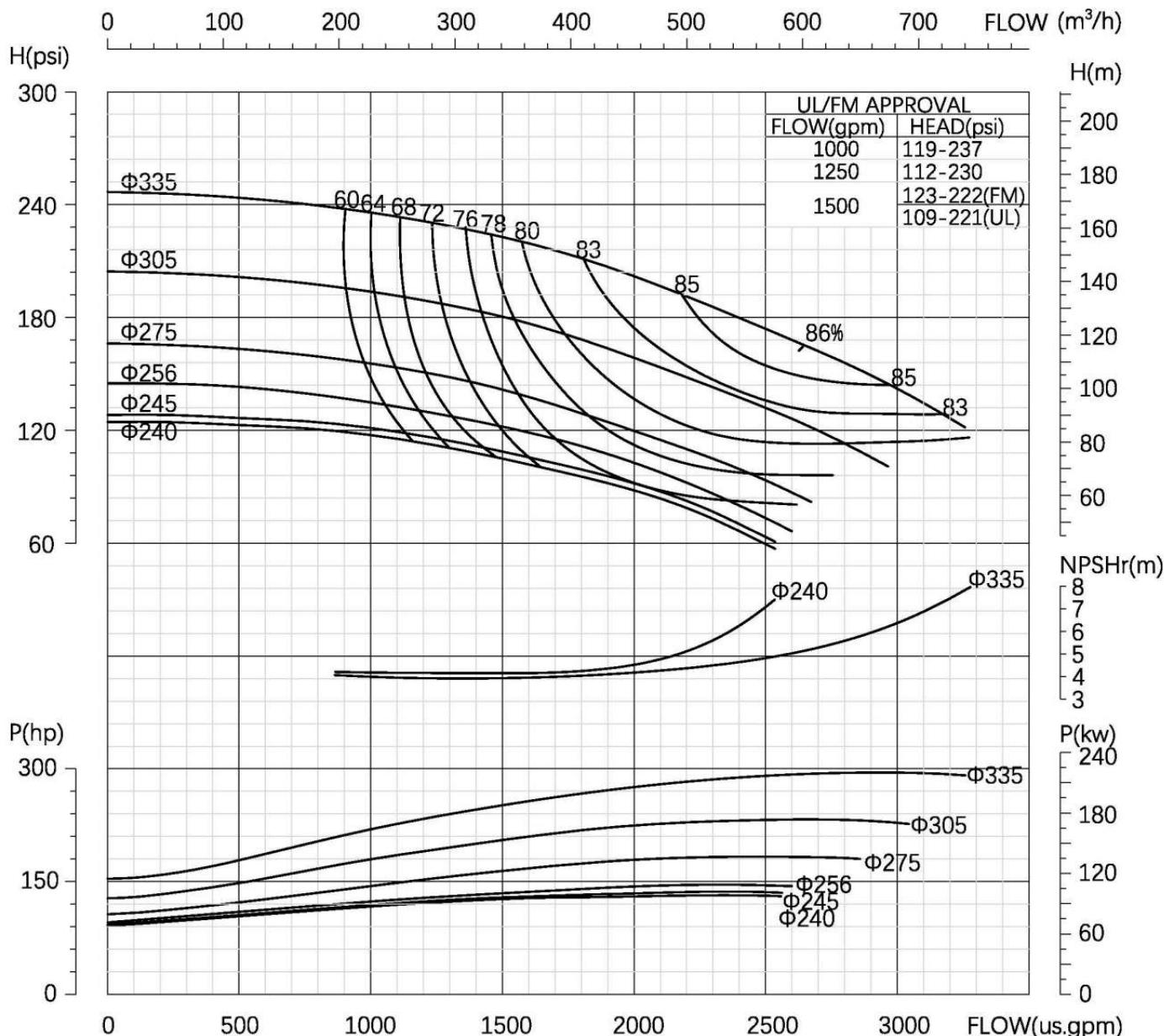
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2950rpm
Max working pressure,allowable : 290psi
Max suction pressure,allowable : 75psi
Max brake horse power : 115-194hp

Curve No.: CNPA235010@CNPA200-150-250G@2950rpm@1250→1500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-310



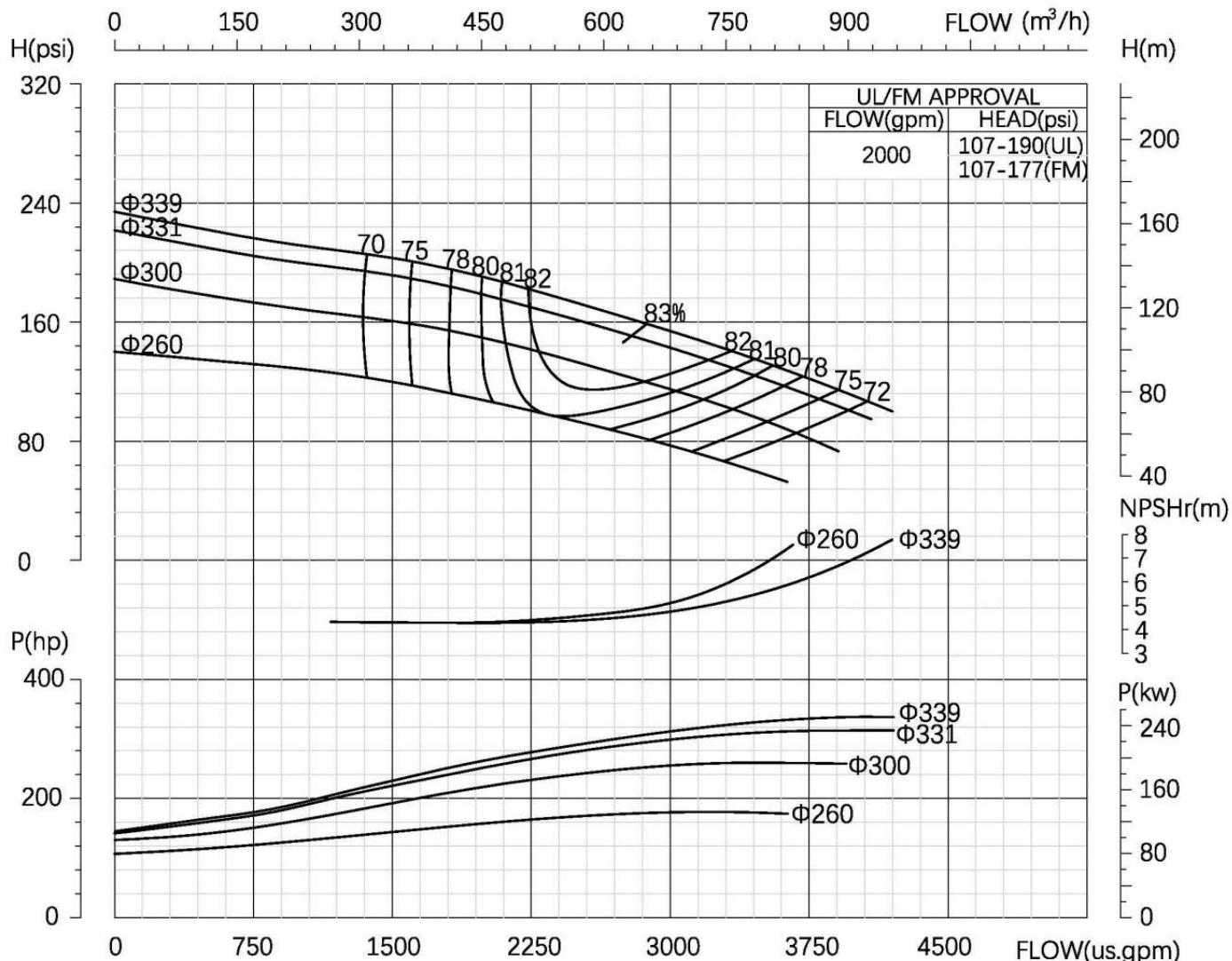
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2980rpm
Max working pressure,allowable : 370psi
Max suction pressure,allowable : 75psi
Max brake horse power : 133~295hp

Curve No.: CNPA205011@CNPA200-150-310@2980rpm@1000→1500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-330



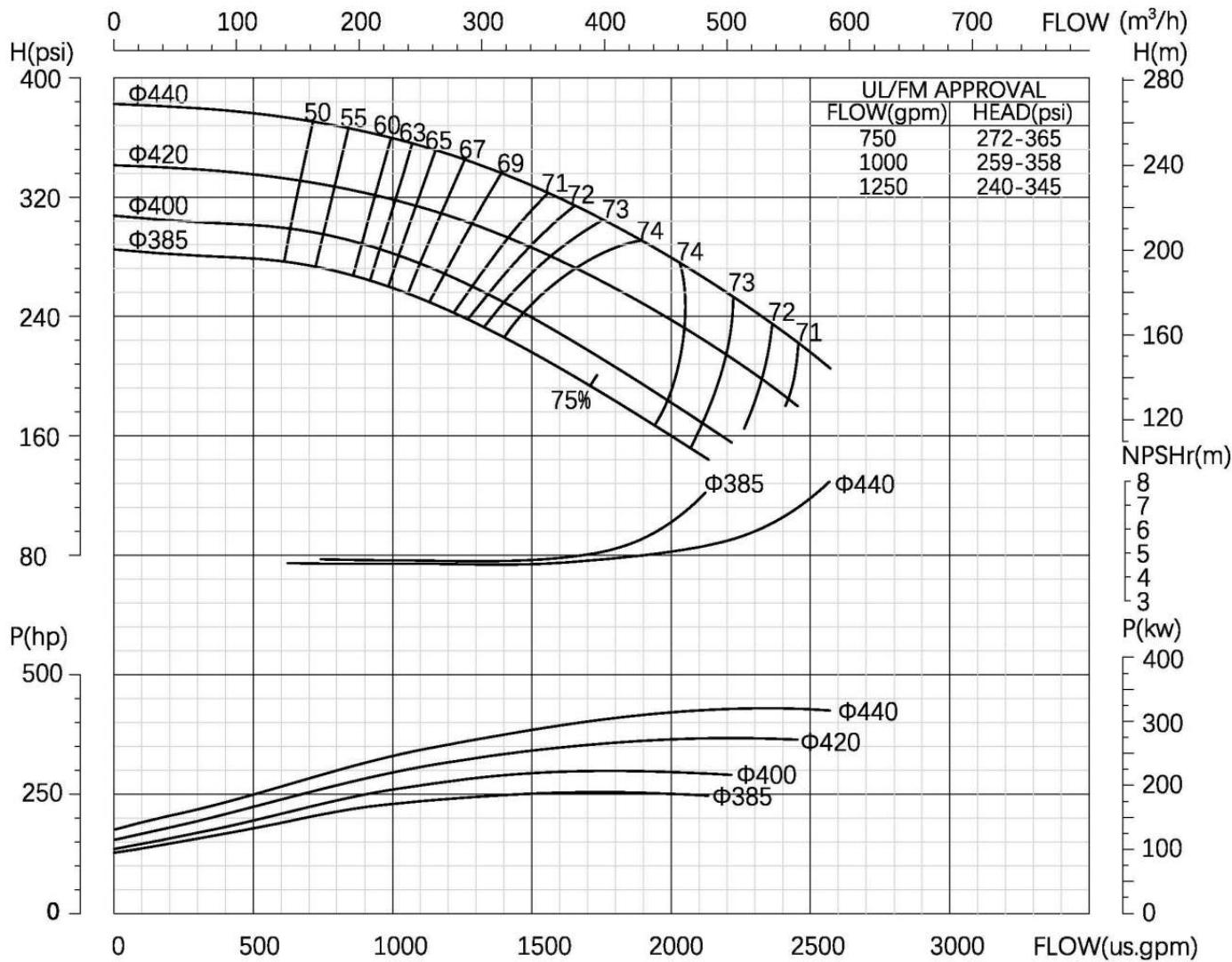
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2950rpm
Max working pressure,allowable : 310psi
Max suction pressure,allowable : 75psi
Max brake horse power : 173-337hp

Curve No.: CNPA205012@CNPA200-150-330@2950rpm@2000usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-420



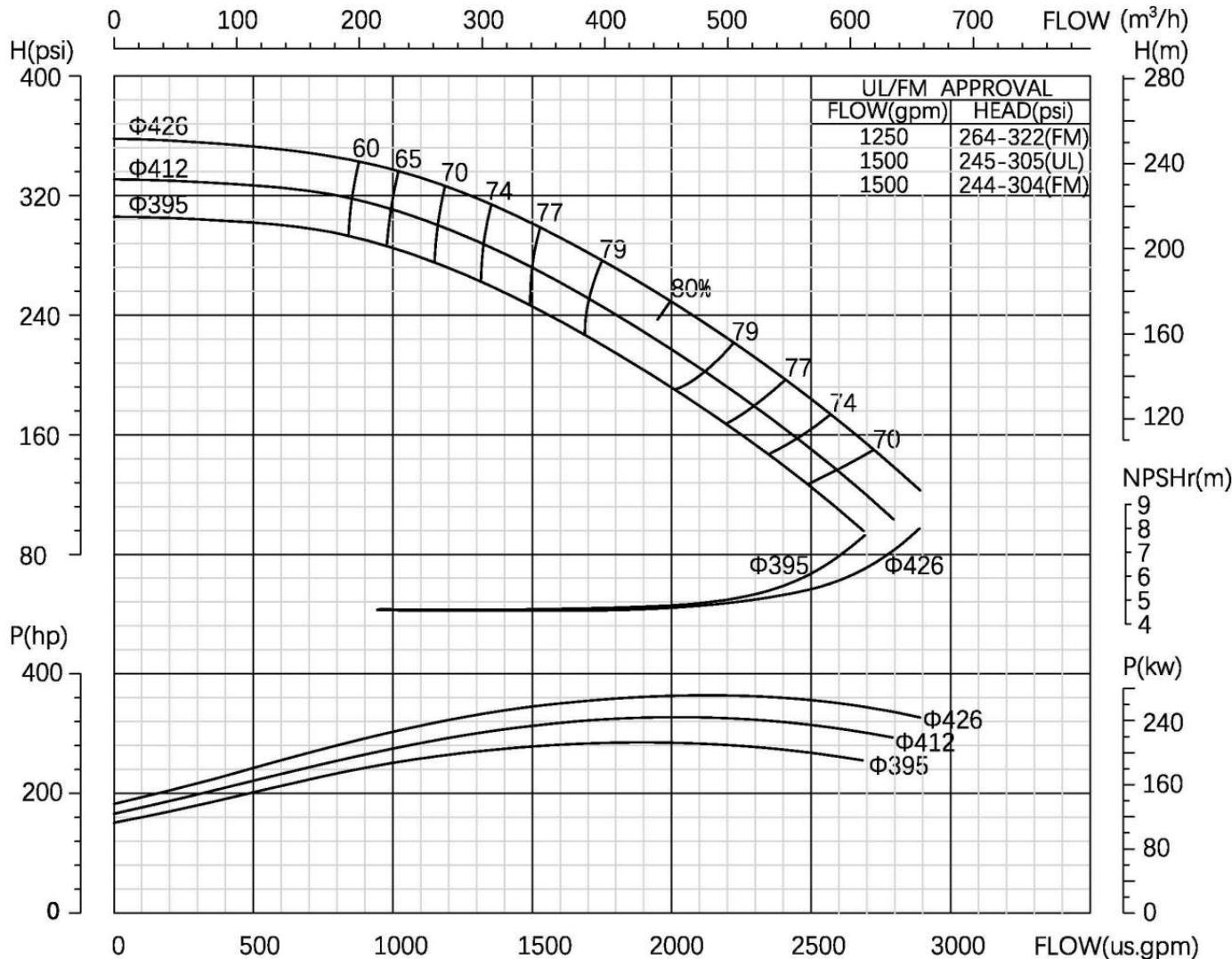
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2950rpm
Max working pressure,allowable : 465psi
Max suction pressure,allowable : 75psi
Max brake horse power : 252-429hp

Curve No.: CNPA205013@CNPA200-150-420@2950rpm@750→1250usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-420G



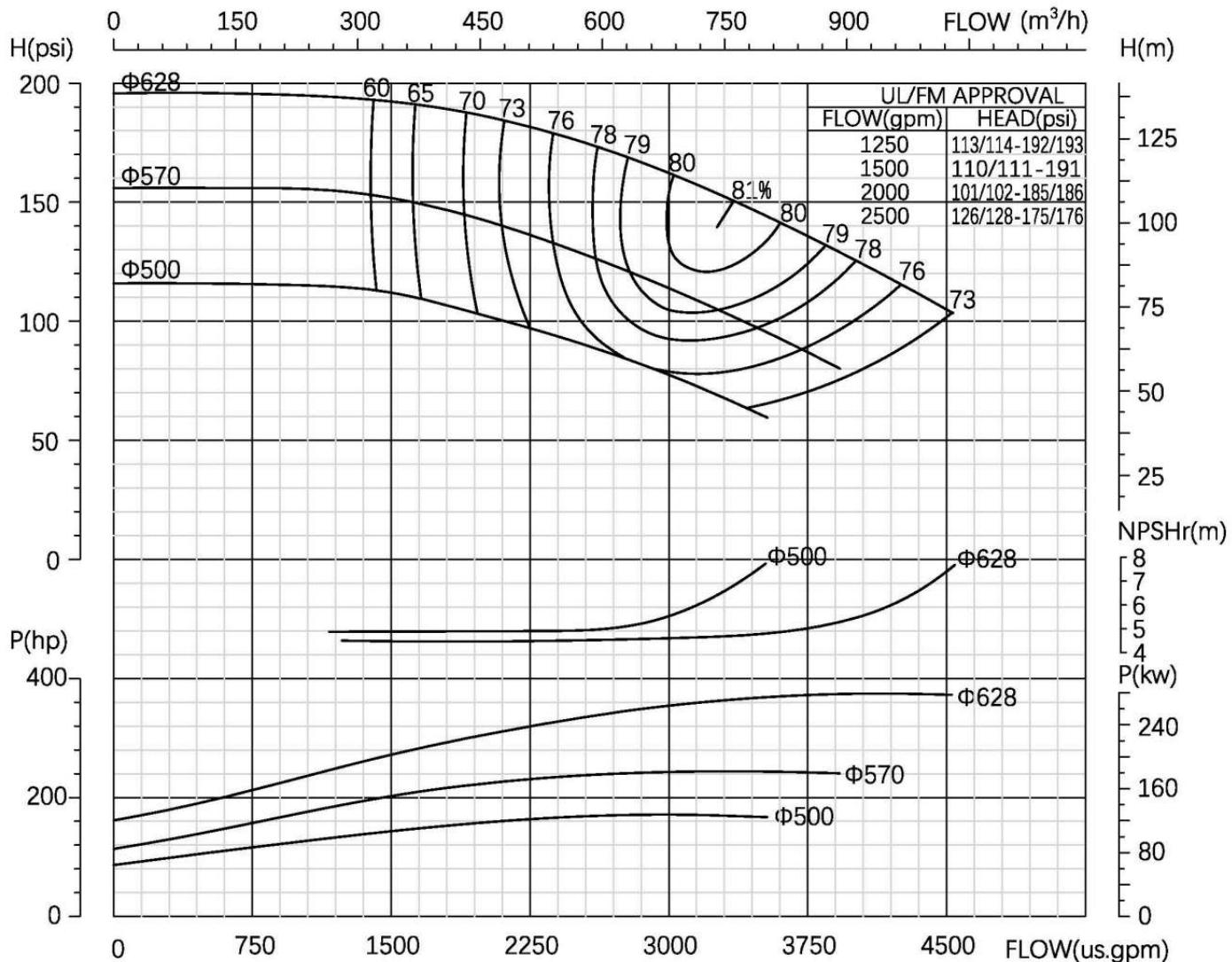
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2950rpm
Max working pressure,allowable : 435psi
Max suction pressure,allowable : 75psi
Max brake horse power : 283-362hp

Curve No.: CNPA235024@CNPA200-150-420G@2950rpm@1250→1500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-600



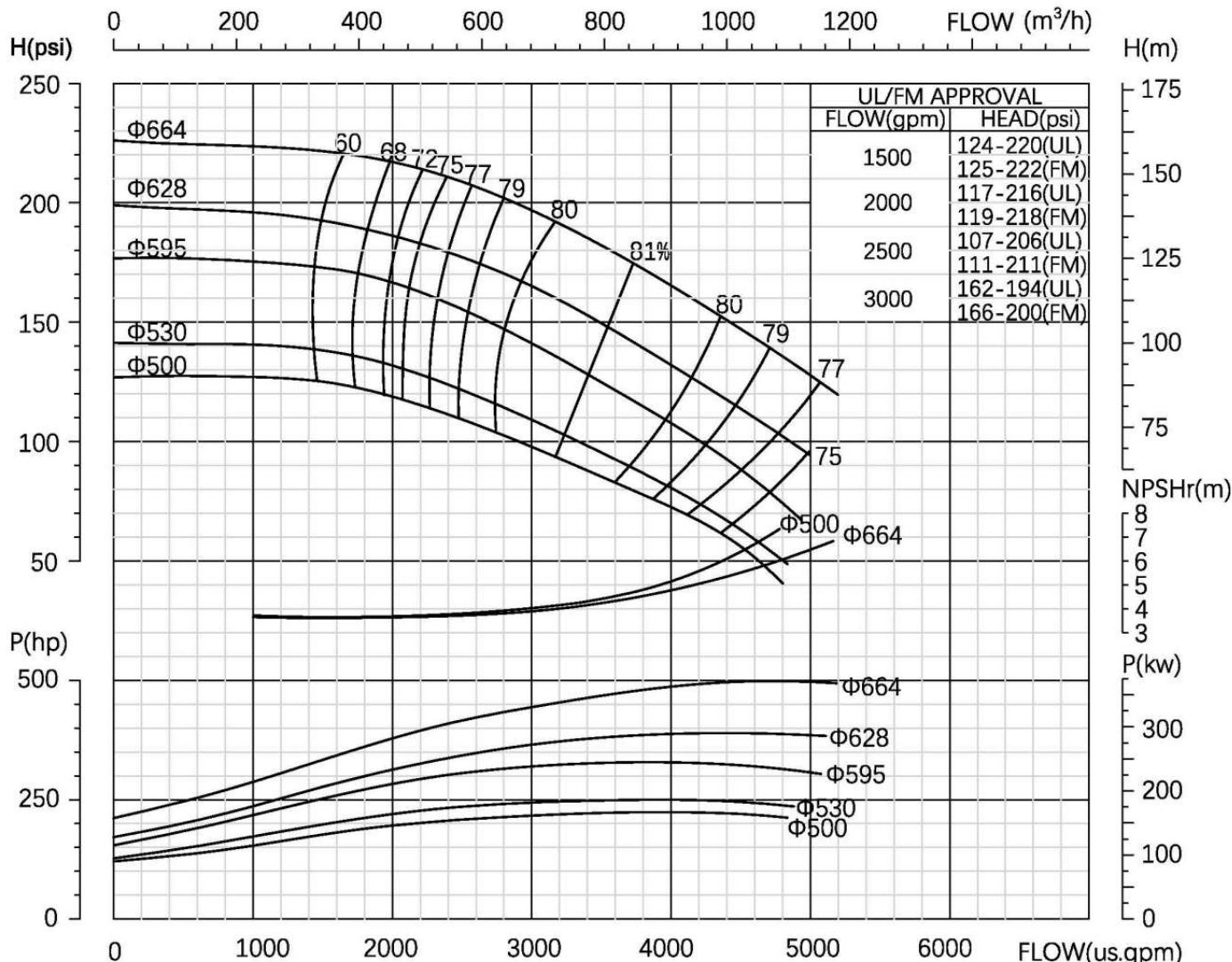
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 50Hz
Speed,rated : 1480rpm
Max working pressure,allowable : 290psi
Max suction pressure,allowable : 75psi
Max brake horse power : 171~373hp

Curve No.: CNPA235025@CNPA200-150-600@1480rpm@1250→2500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-640

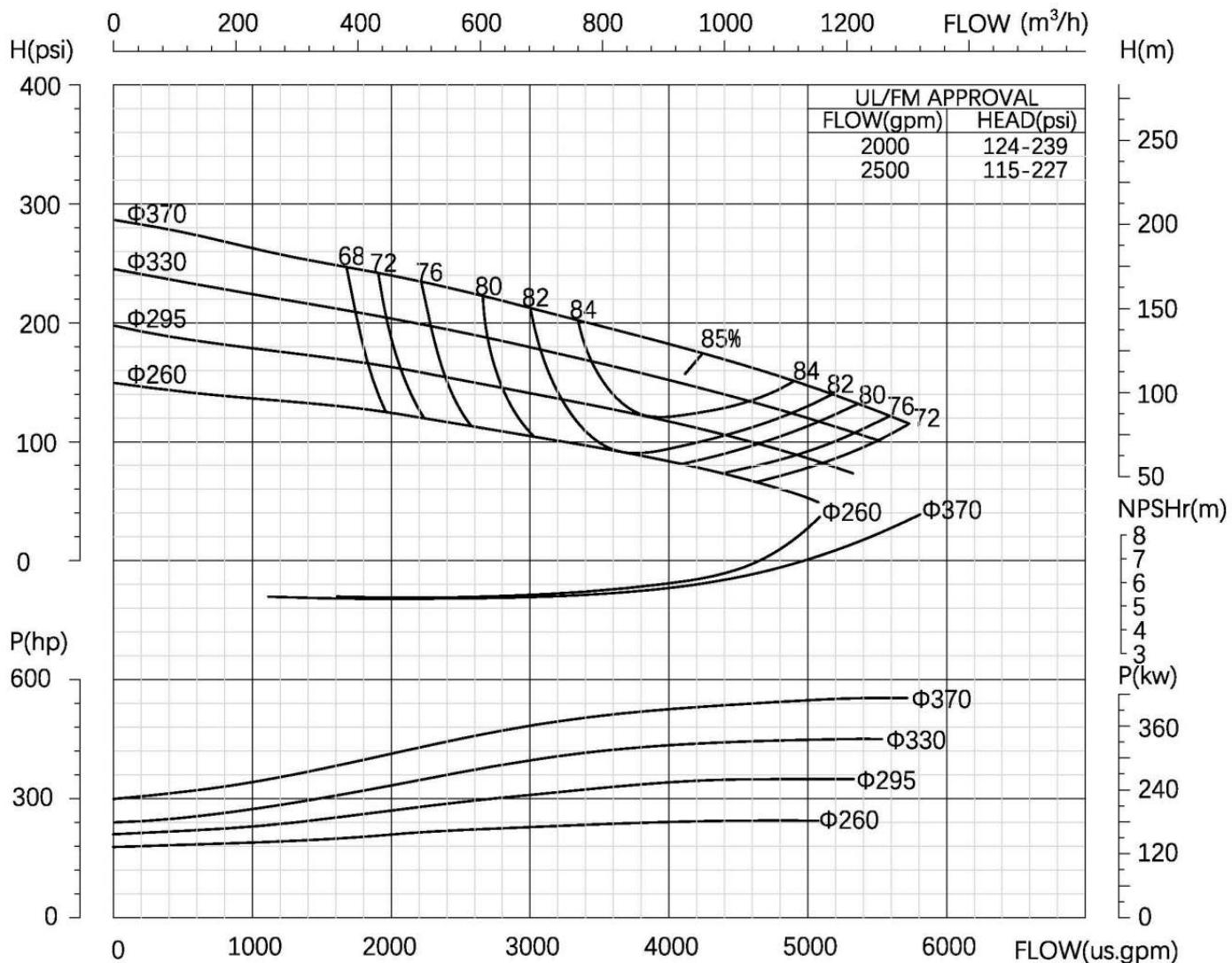


Curve No.: CNPA205014@CNPA200-150-640@1480rpm@1500→3000usgpm



PERFORMANCE CURVES - CNPAx

CNPA250-200-350



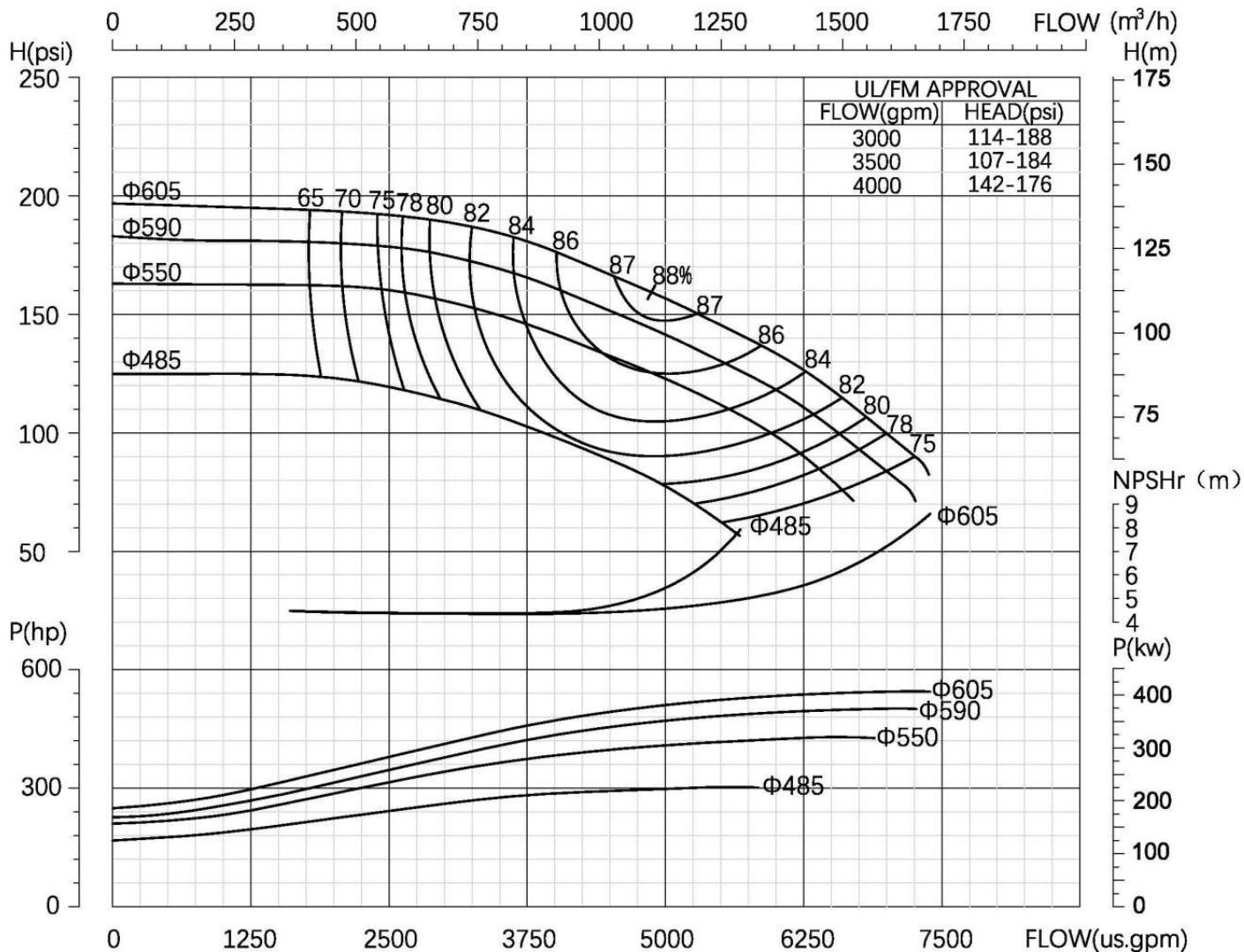
Flange rating(suction/discharge) : class 250, RF
Size : 10x8inch
Stages : 1
Frequency : 50Hz
Speed,rated : 2980rpm
Max working pressure,allowable : 362psi
Max suction pressure,allowable : 75psi
Max brake horse power : 245~554hp

Curve No.: CNPA205015@CNPA250-200-350@2980rpm@2000→2500usgpm



PERFORMANCE CURVES - CNPAx

CNPA250-200-600



Flange rating(suction/discharge) : class 250, RF

Size : 10x8inch

Stages : 1

Frequency : 50Hz

Speed,rated :1480rpm

Max working pressure,allowable : 300psi

Max suction pressure,allowable : 75psi

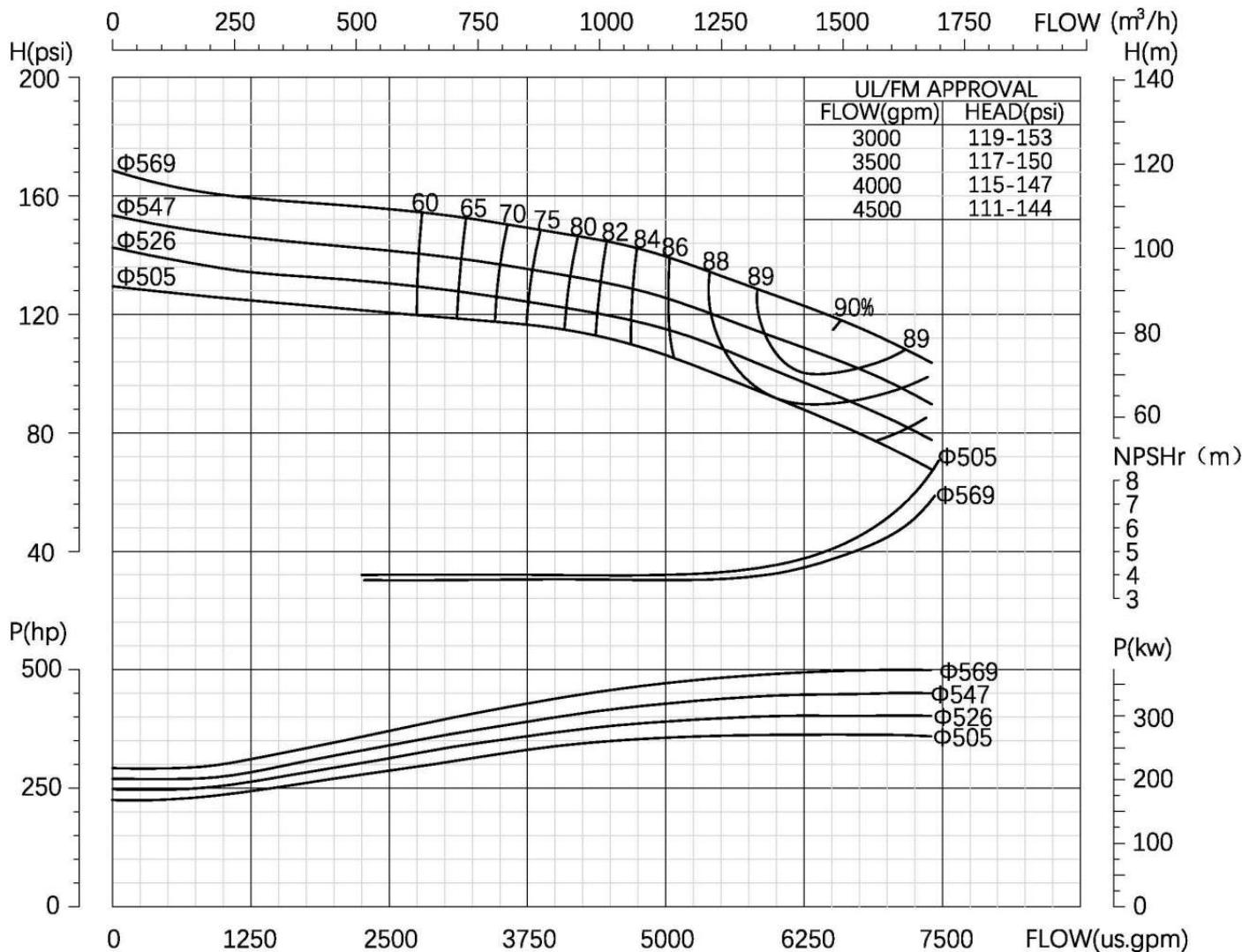
Max brake horse power : 303-540hp

Curve No.: CNPA205016@CNPA250-200-600@1480rpm@3000→4000usgpm



PERFORMANCE CURVES - CNPAx

CNPA300-250-500



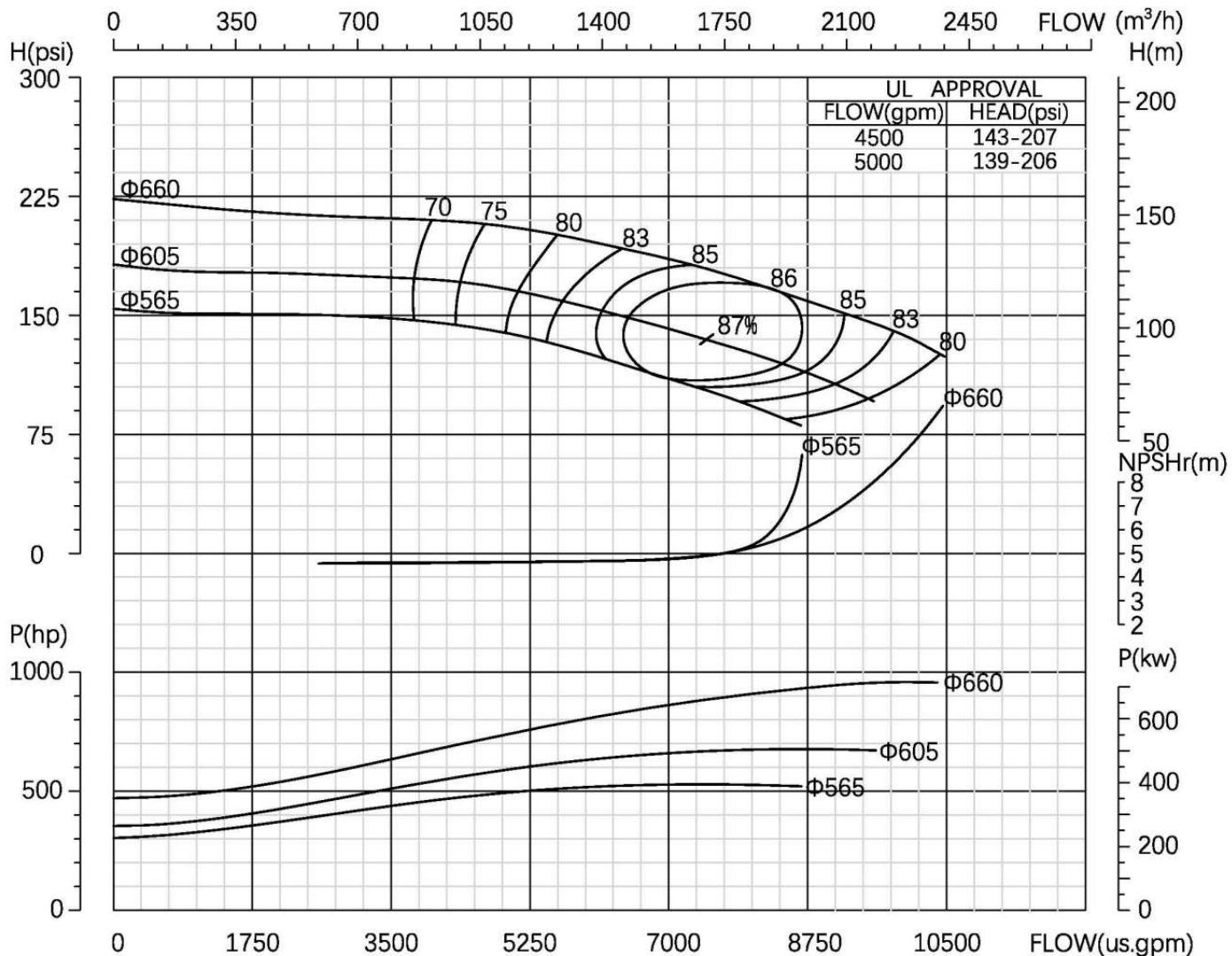
Flange rating(suction/discharge) : class 250, RF
Size : 12x10inch
Stages : 1
Frequency : 50Hz
Speed,rated : 1480rpm
Max working pressure,allowable : 330psi
Max suction pressure,allowable : 75psi
Max brake horse power : 362-500hp

Curve No.: CNPA205017@CNPA300-250-500@1480rpm@3000→4500usgpm



PERFORMANCE CURVES - CNPAx

CNPA300-250-600



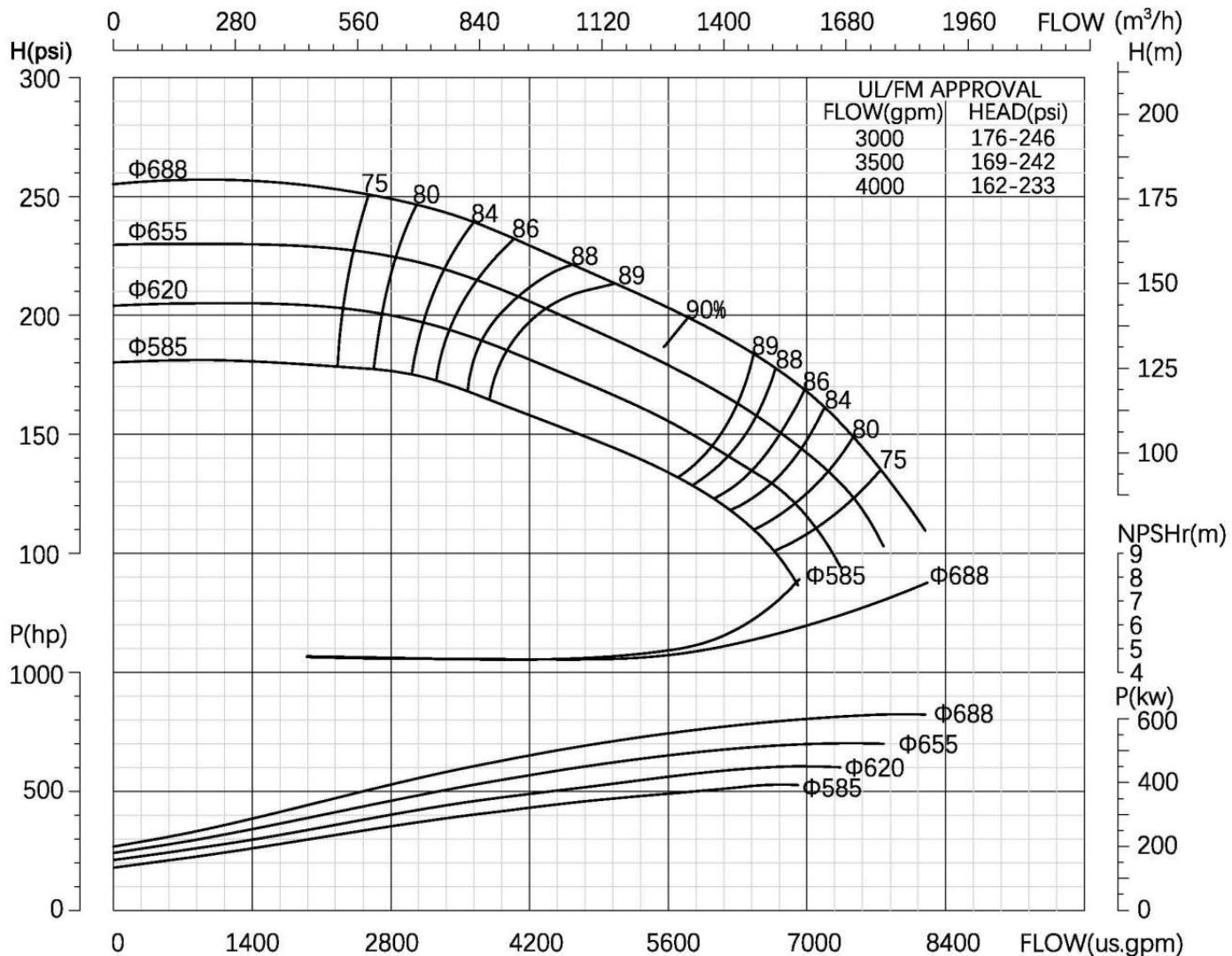
Flange rating(suction/discharge) : class 250, RF
Size : 12x10inch
Stages : 1
Frequency : 50Hz
Speed,rated : 1450rpm
Max working pressure,allowable : 310psi
Max suction pressure,allowable : 75psi
Max brake horse power : 525-957hp

Curve No.: CNPA205018@CNPA300-250-600@1450rpm@4500→5000usgpm



PERFORMANCE CURVES - CNPAx

CNPA300-250-640



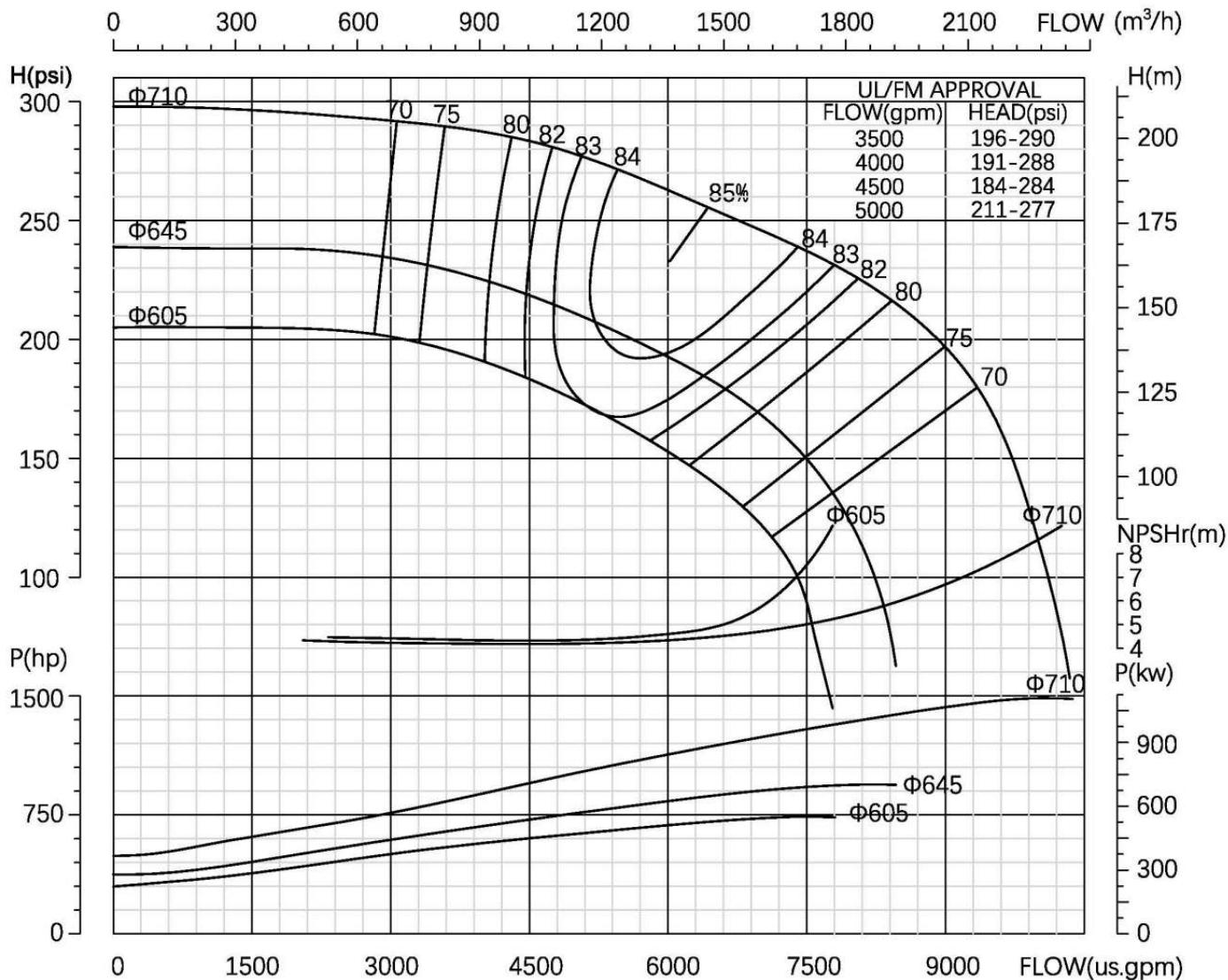
Flange rating(suction/discharge) : class 250, RF
Size : 12x10inch
Stages : 1
Frequency : 50Hz
Speed,rated : 1480rpm
Max working pressure,allowable : 330psi
Max suction pressure,allowable : 75psi
Max brake horse power : 529-823hp

Curve No.: CNPA205019@CNPA300-250-640@1480rpm@3000→4000usgpm



PERFORMANCE CURVES - CNPAx

CNPA300-250-640G



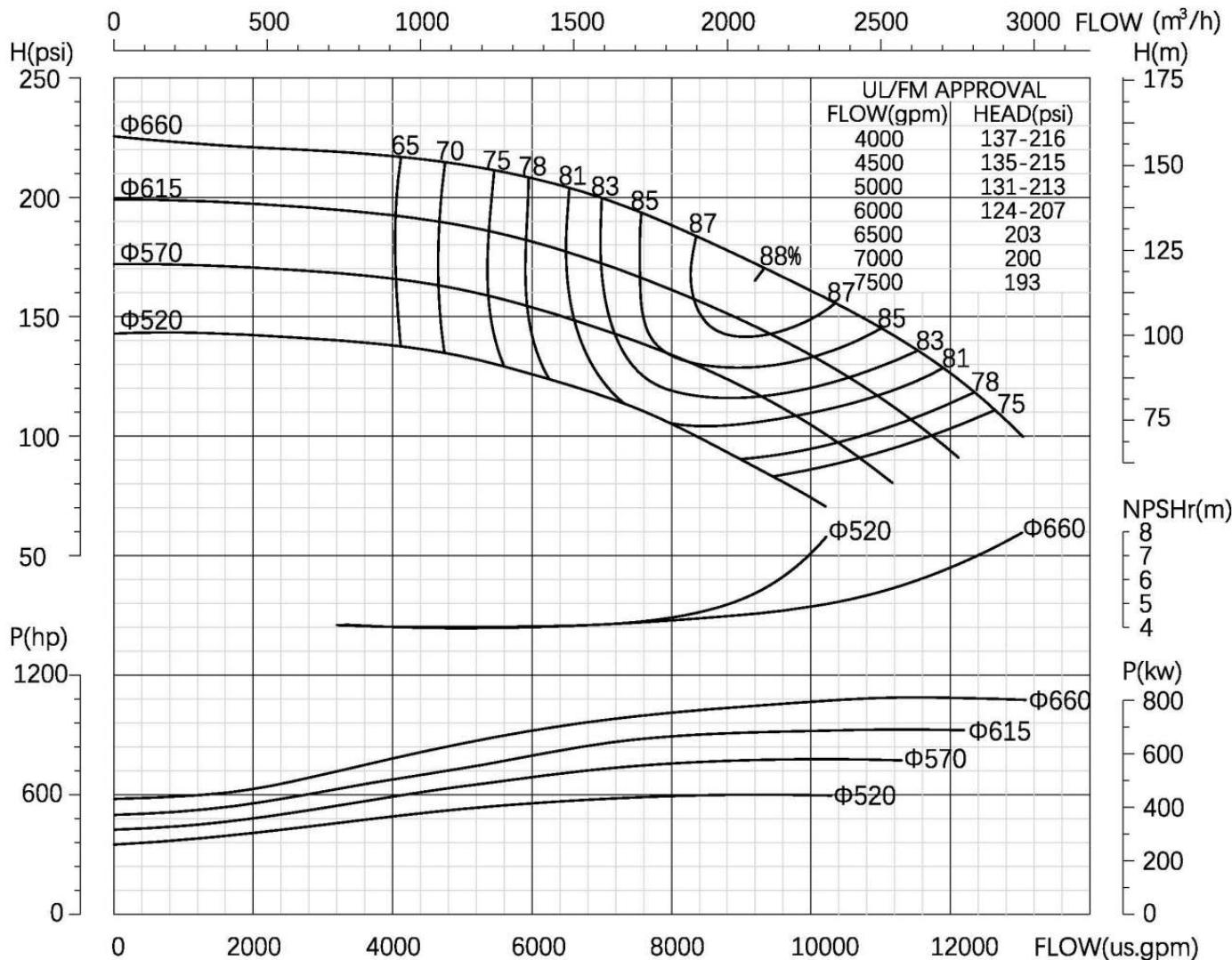
Flange rating(suction/discharge) : class 250, RF
Size : 12x10inch
Stages : 1
Frequency : 50Hz
Speed,rated : 1480rpm
Max working pressure,allowable : 377psi
Max suction pressure,allowable : 75psi
Max brake horse power : 715-1324hp

Curve No.: CNPA205020@CNPA300-250-640G@1480rpm@3500→5000usgpm



PERFORMANCE CURVES - CNPAx

CNPA350-250-640



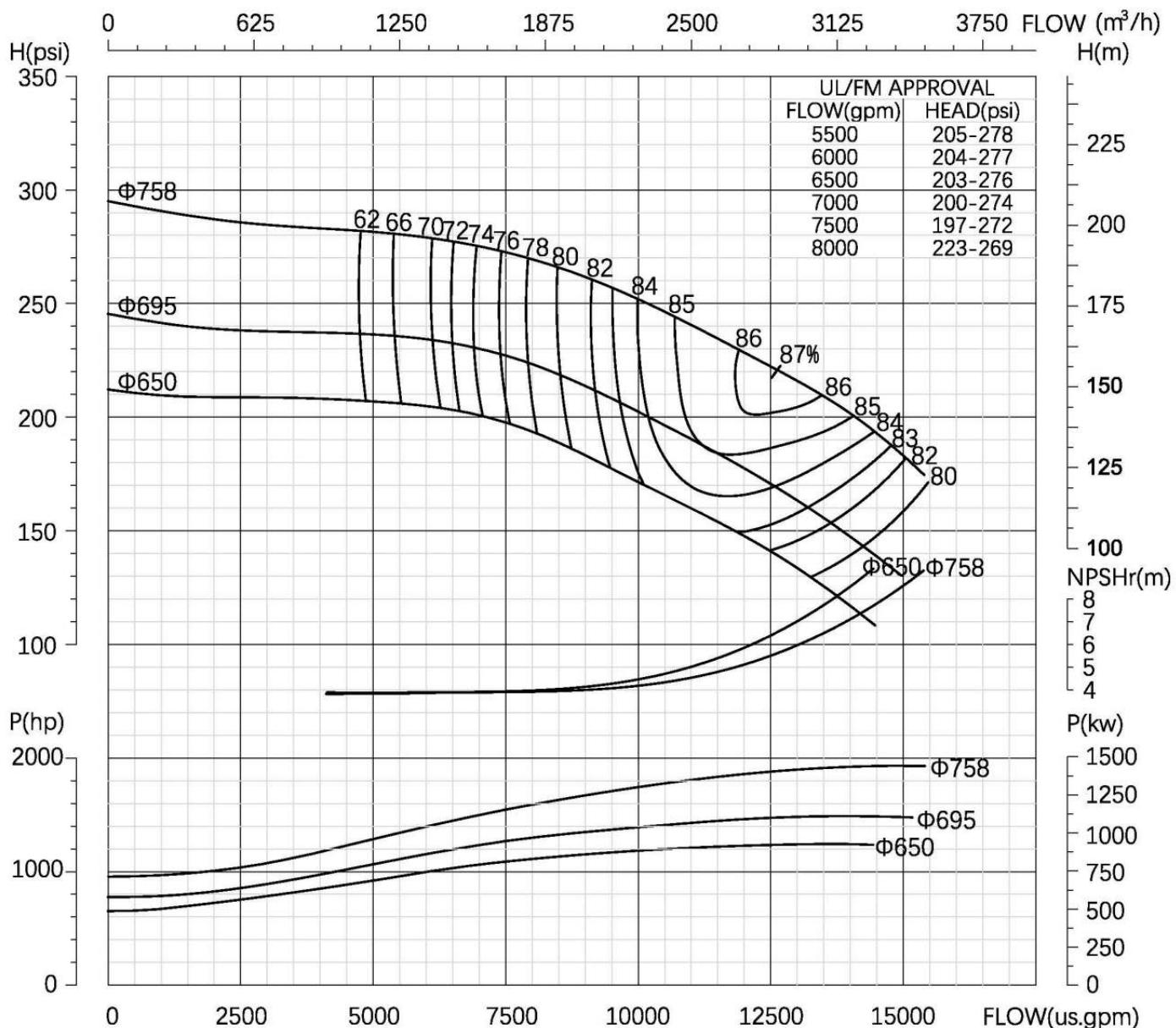
Flange rating(suction/discharge) : class 250, RF
Size : 14x10inch
Stages : 1
Frequency : 50Hz
Speed,rated : 1480rpm
Max working pressure,allowable : 300psi
Max suction pressure,allowable : 75psi
Max brake horse power : 599-1088hp

Curve No.: CNPA205021@CNPA350-250-640@1480rpm@4000→7500usgpm



PERFORMANCE CURVES - CNPAx

CNPA400-300-750



Flange rating(suction/discharge) : class 250, RF

Size : 14x10inch

Stages : 1

Frequency : 50Hz

Speed,rated : 1480rpm

Max working pressure,allowable : 375psi

Max suction pressure,allowable : 75psi

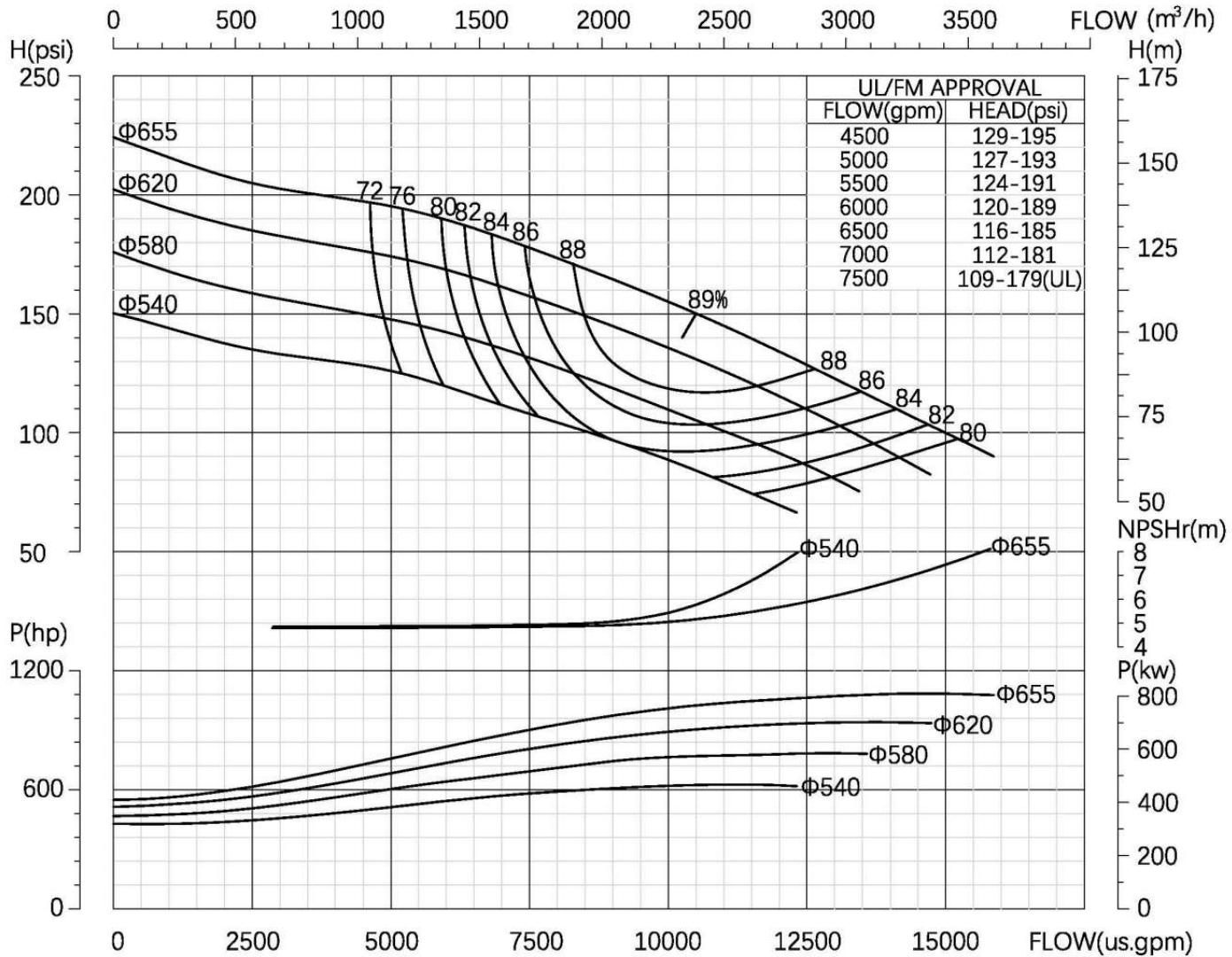
Max brake horse power : 1245-1938hp

Curve No.: CNPA205022@CNPA400-300-750@1480rpm@5500→8000usgpm



PERFORMANCE CURVES - CNPAx

CNPA400-350-640



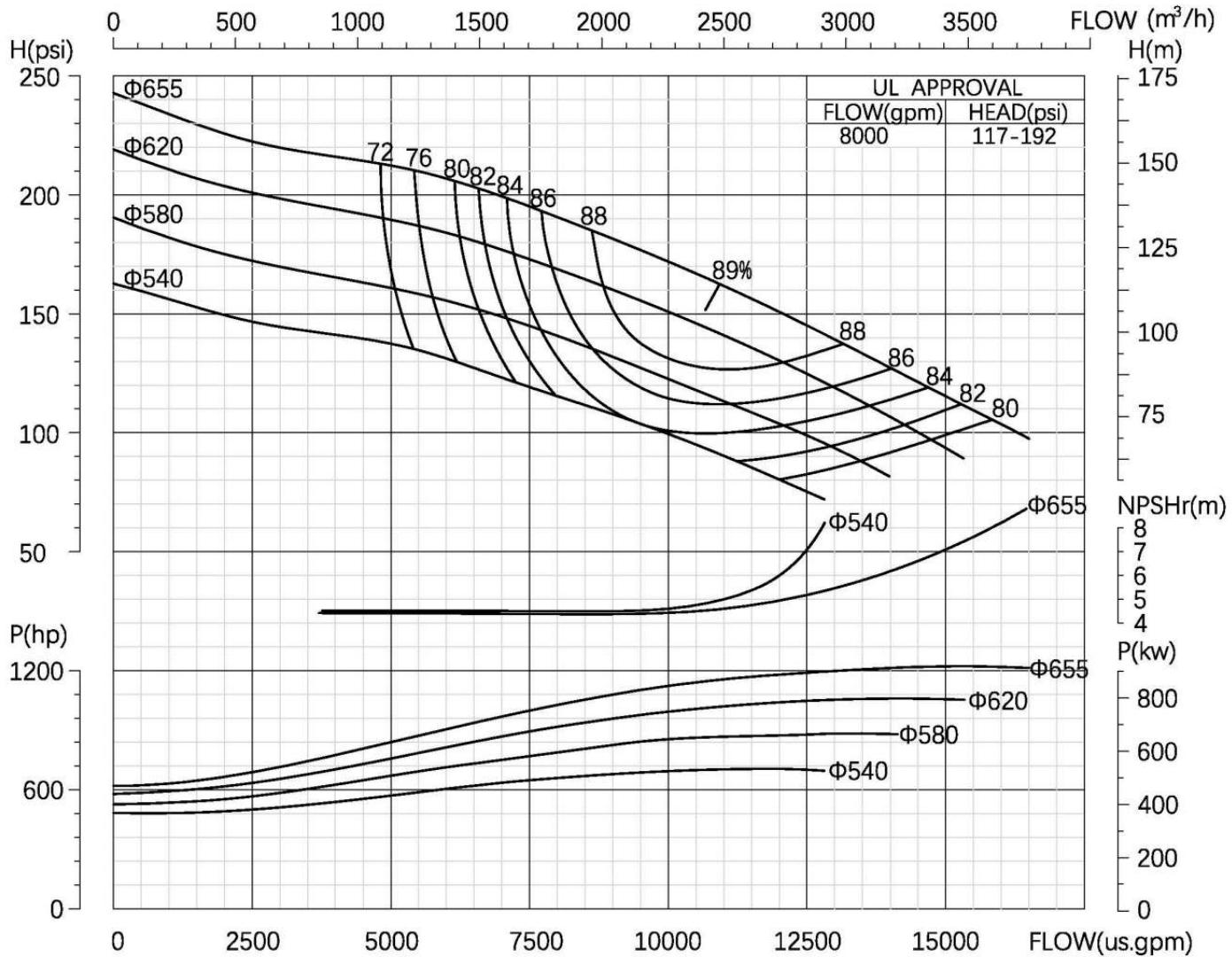
Flange rating(suction/discharge) : class 250, RF
Size : 16x14inch
Stages : 1
Frequency : 50Hz
Speed,rated : 1480rpm
Max working pressure,allowable : 315psi
Max suction pressure,allowable : 75psi
Max brake horse power : 626-1083hp

Curve No.: CNPA205023@CNPA400-350-640@1480rpm@4500→7500usgpm



PERFORMANCE CURVES - CNPAx

CNPA400-350-640



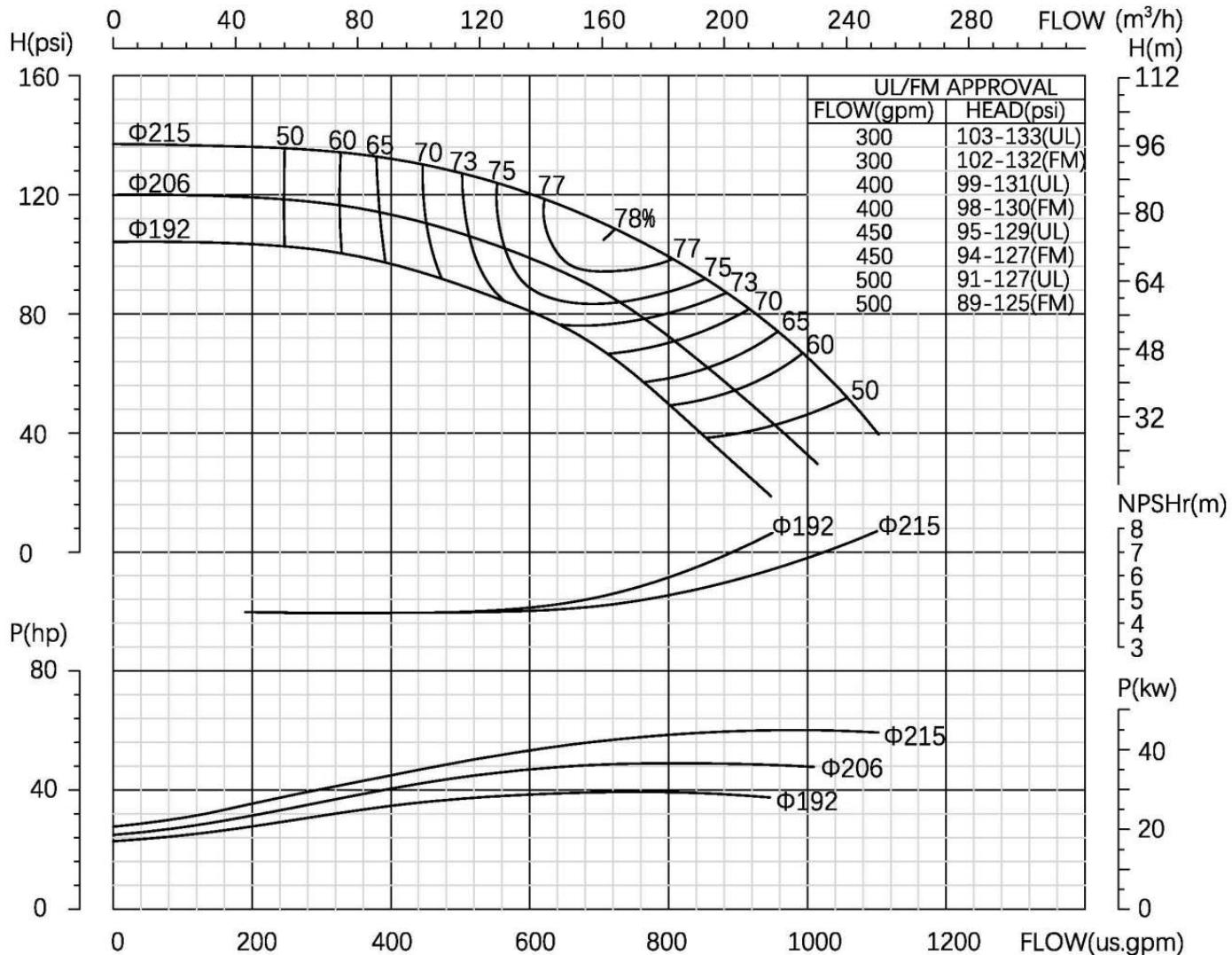
Flange rating(suction/discharge) : class 250, RF
Size : 16x14inch
Stages : 1
Frequency : 50Hz
Speed,rated : 1540rpm
Max working pressure,allowable : 315psi
Max suction pressure,allowable : 75psi
Max brake horse power : 704-1221hp

Curve No.: CNPA200020@CNPA400-350-640@1540rpm@8000usgpm



PERFORMANCE CURVES - CNPAx

CNPA100-80-200



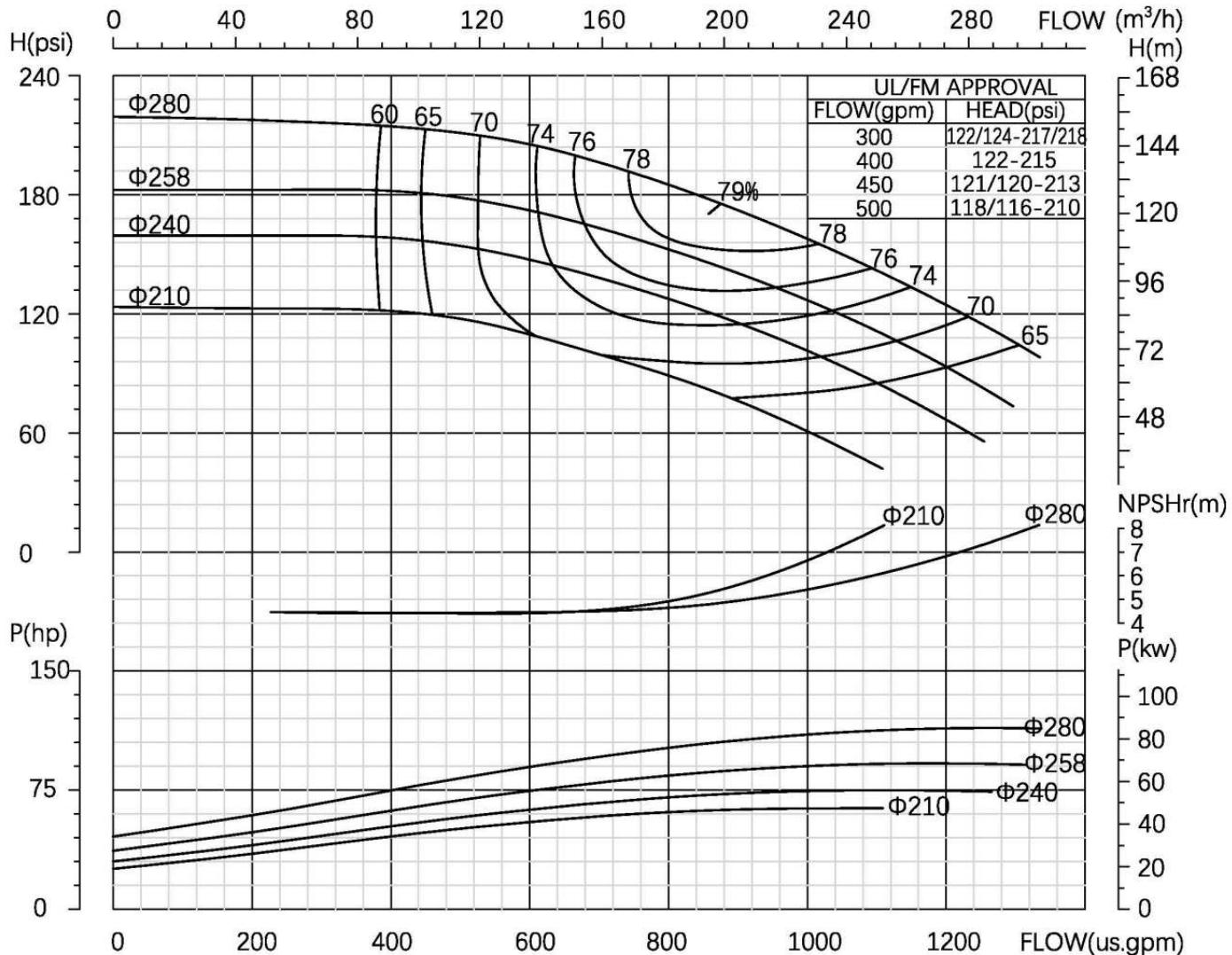
Flange rating(suction/discharge) : class 250, RF
Size : 4x3inch
Stages : 1
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 220psi
Max suction pressure,allowable : 75psi
Max brake horse power : 39~59hp

Curve No.: CNPA236001@CNPA100-80-200@3550rpm@300→500usgpm



PERFORMANCE CURVES - CNPAx

CNPA100-80-250



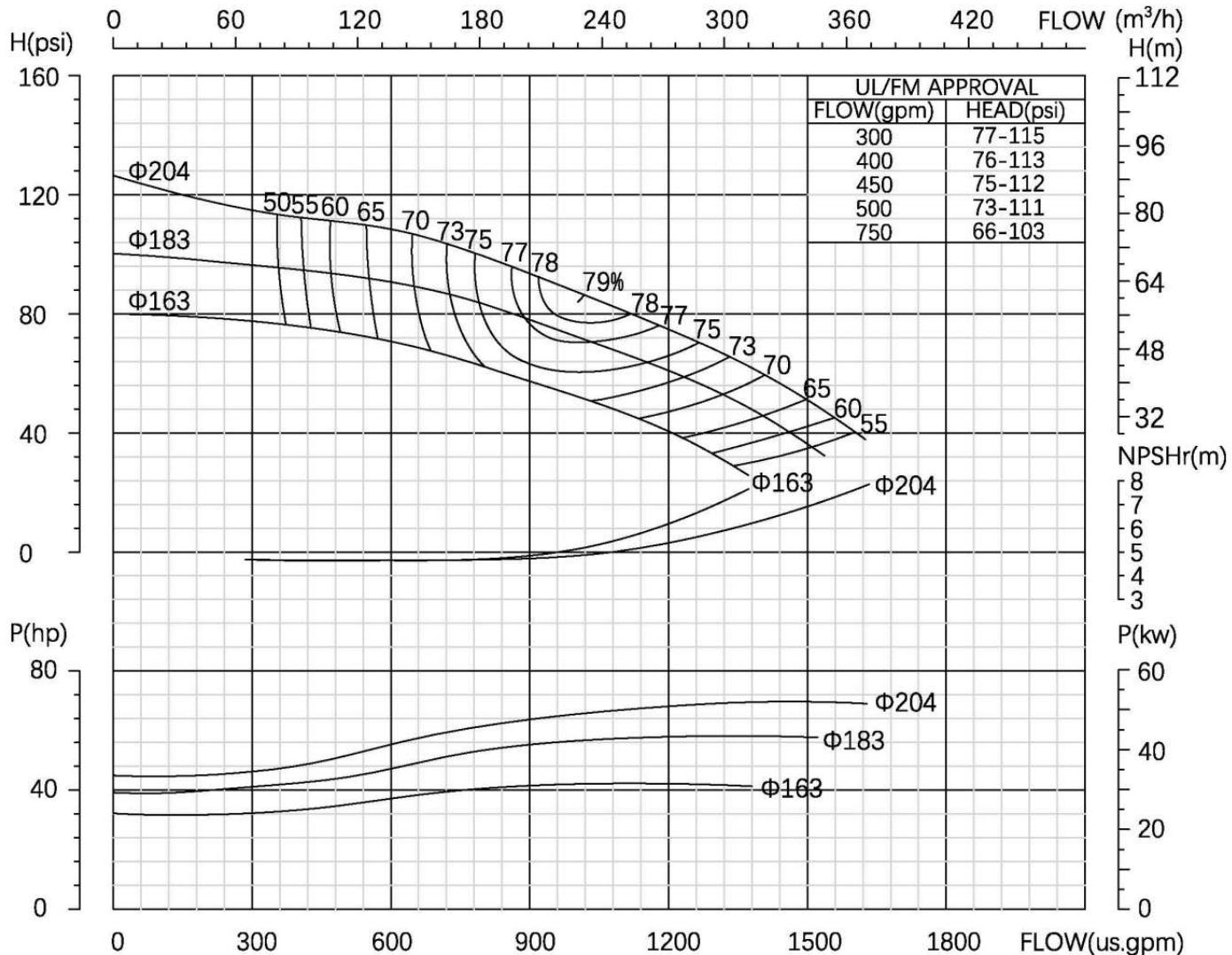
Flange rating(suction/discharge) : class 250, RF
Size : 4x3inch
Stages : 1
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 305psi
Max suction pressure,allowable : 75psi
Max brake horse power : 63~114hp

Curve No.: CNPA236002@CNPA100-80-250@3550rpm@300→500usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-80-200



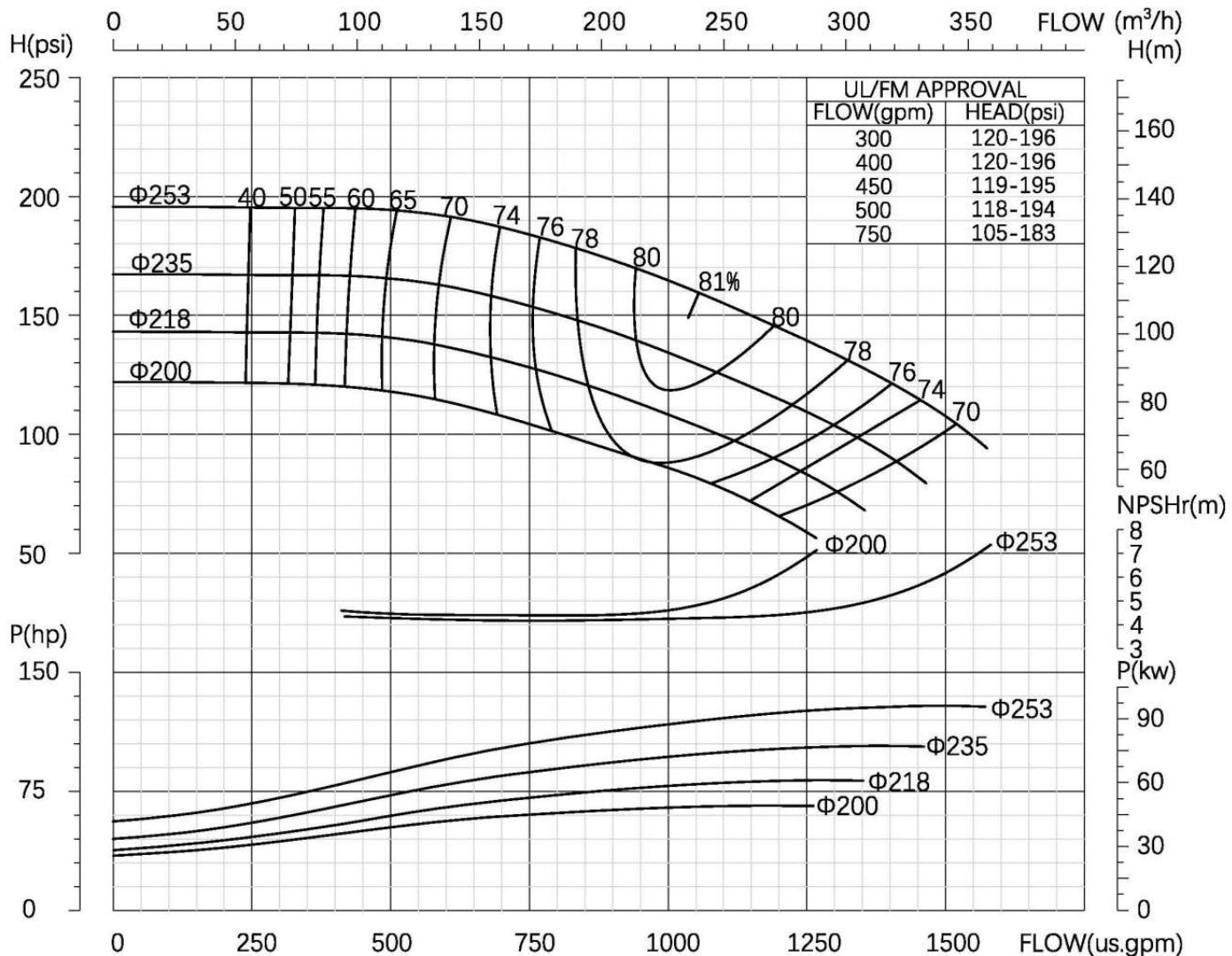
Flange rating(suction/discharge) : class 250, RF
Size : 5x3inch
Stages : 1
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 200psi
Max suction pressure,allowable : 75psi
Max brake horse power : 42~70hp

Curve No.: CNPA206001@CNPA125-80-200@3550rpm@300→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-80-250



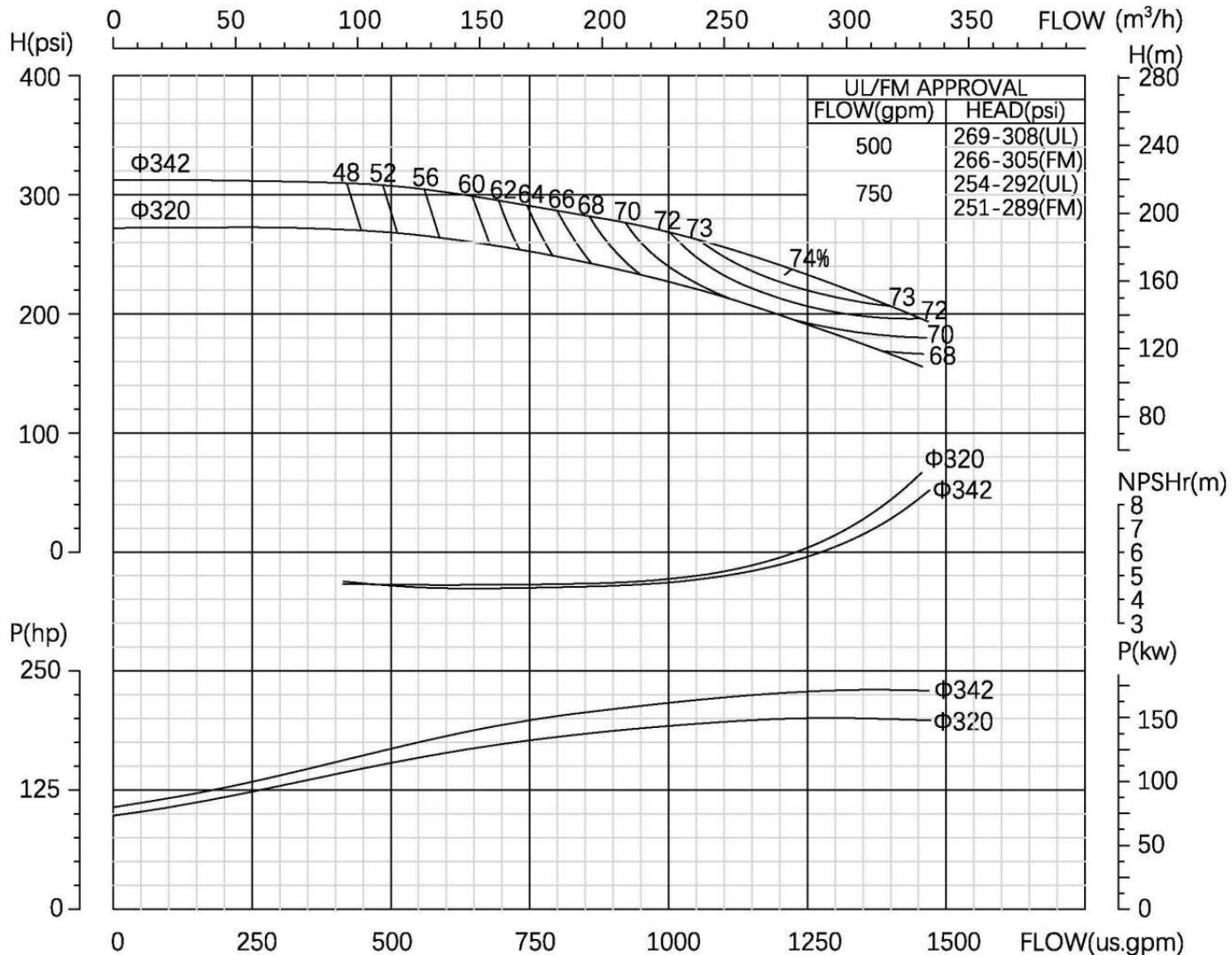
Flange rating(suction/discharge) : class 250, RF
Size : 5x3inch
Stages : 1
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 280psi
Max suction pressure,allowable : 75psi
Max brake horse power : 63~125hp

Curve No.: CNPA206002@CNPA125-80-250@3550rpm@300→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-80-350



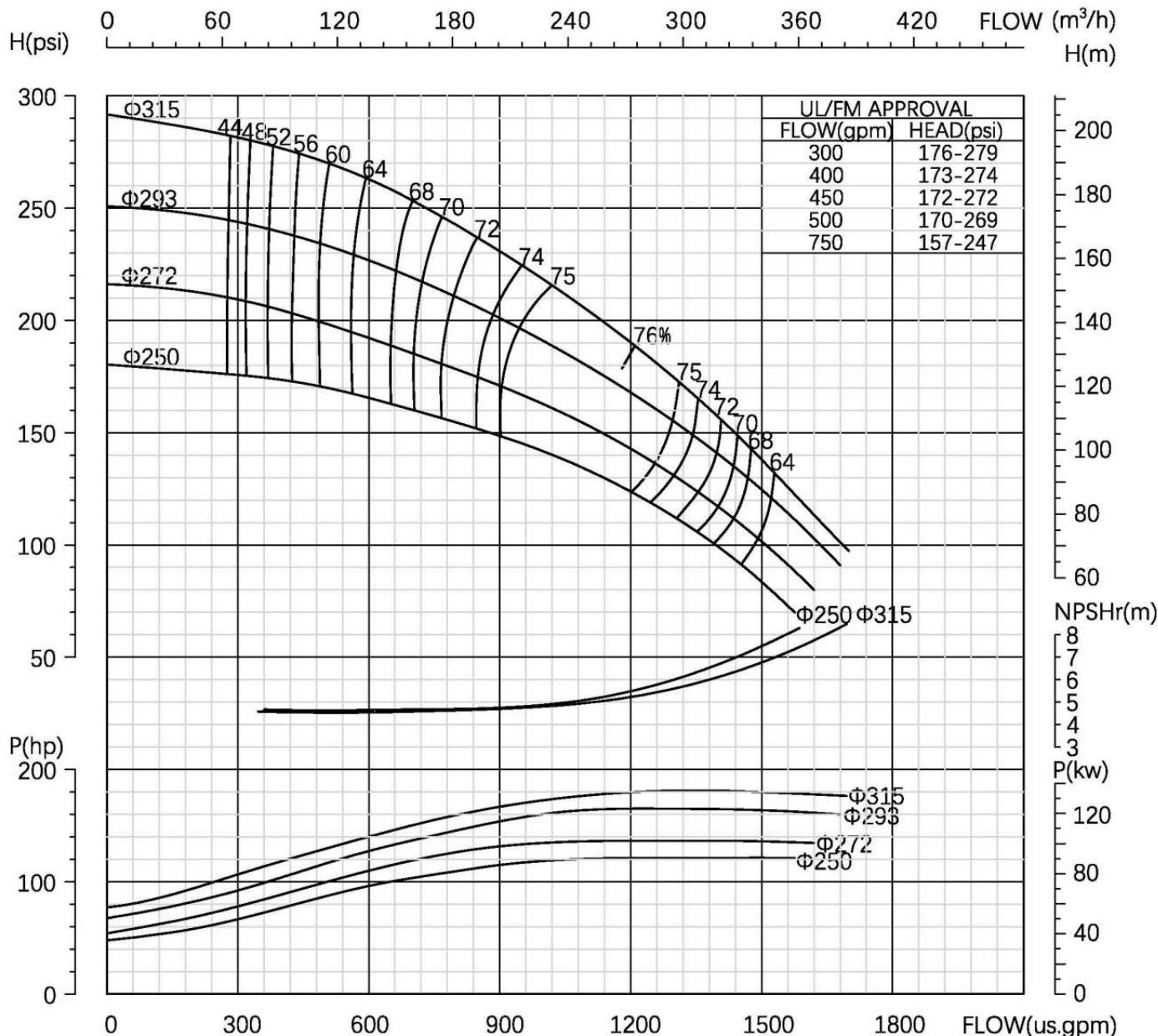
Flange rating(suction/discharge) : class 250, RF
Size : 5x3inch
Stages : 1
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 380psi
Max suction pressure,allowable : 75psi
Max brake horse power : 200~230hp

Curve No.: CNPA206003@CNPA125-80-350@3550rpm@500→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-100-300



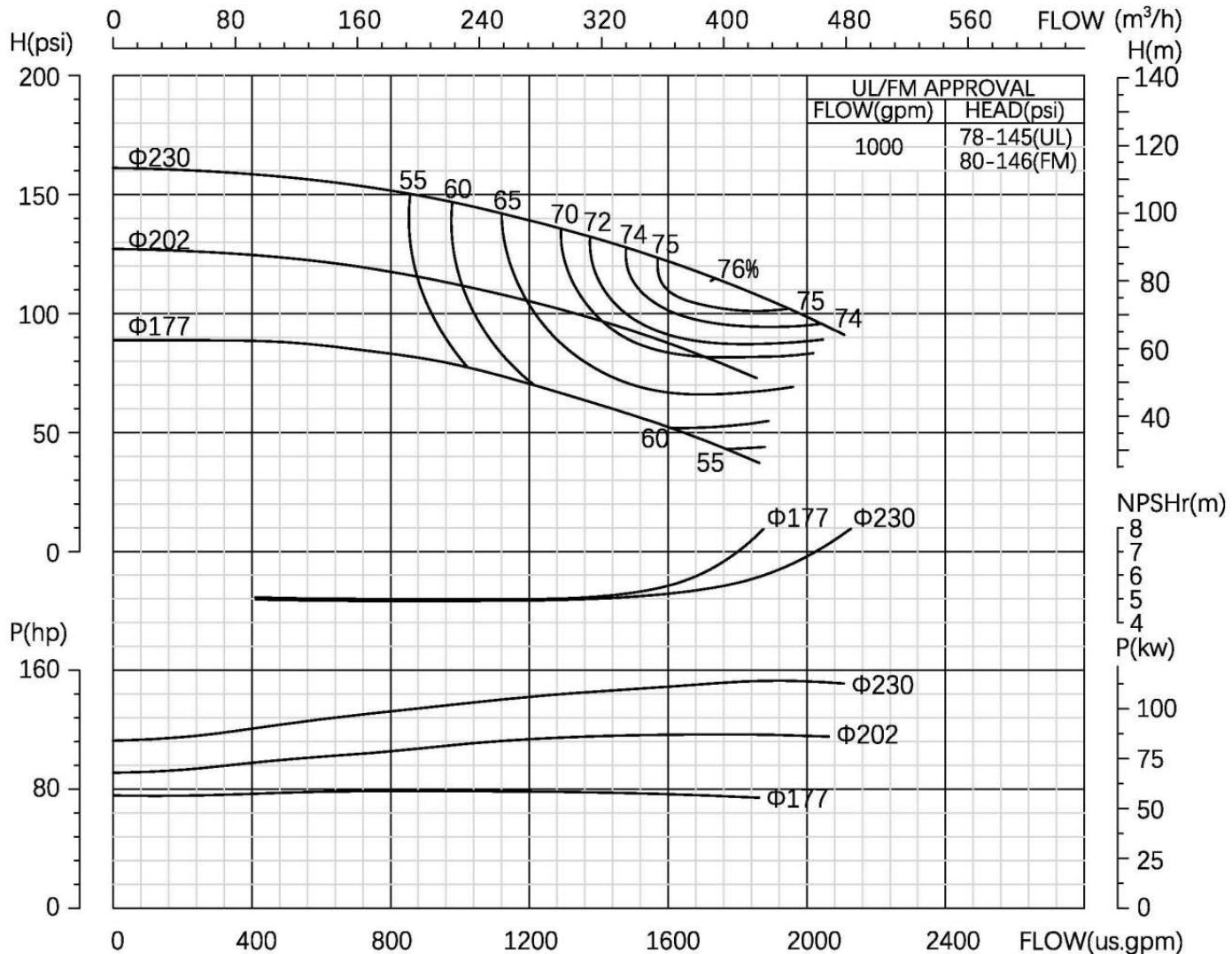
Flange rating(suction/discharge) : class 250, RF
Size : 5x4inch
Stages : 1
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 400psi
Max suction pressure,allowable : 75psi
Max brake horse power : 122~181hp

Curve No.: CNPA236004@CNPA125-100-300@3550rpm@300→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA150-125-200



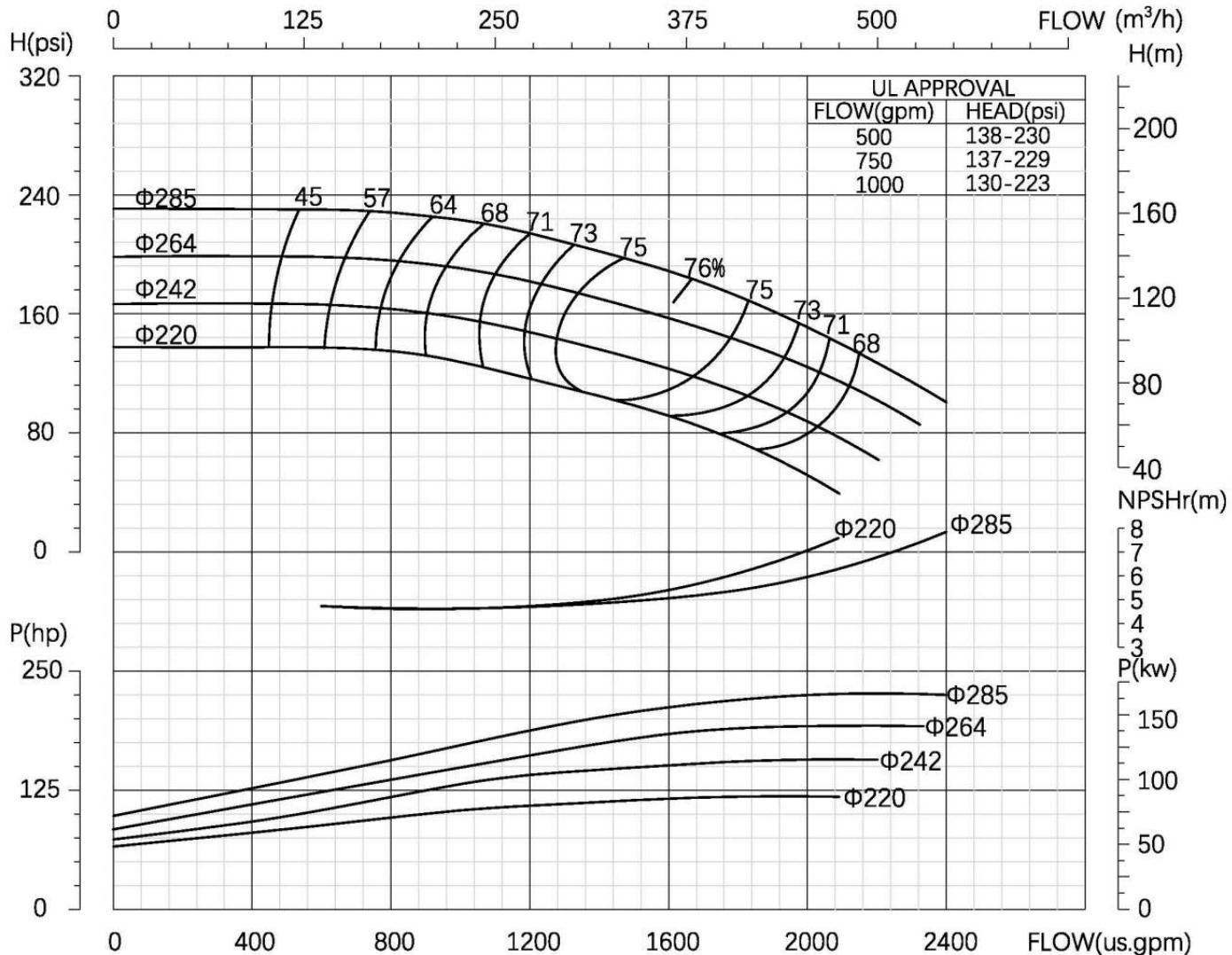
Flange rating(suction/discharge) : class 250, RF
Size : 6x5inch
Stages : 1
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 246psi
Max suction pressure,allowable : 75psi
Max brake horse power : 79~153hp

Curve No.: CNPA206006@CNPA150-125-200@3550rpm@1000usgpm



PERFORMANCE CURVES - CNPAx

CNPA150-125-250



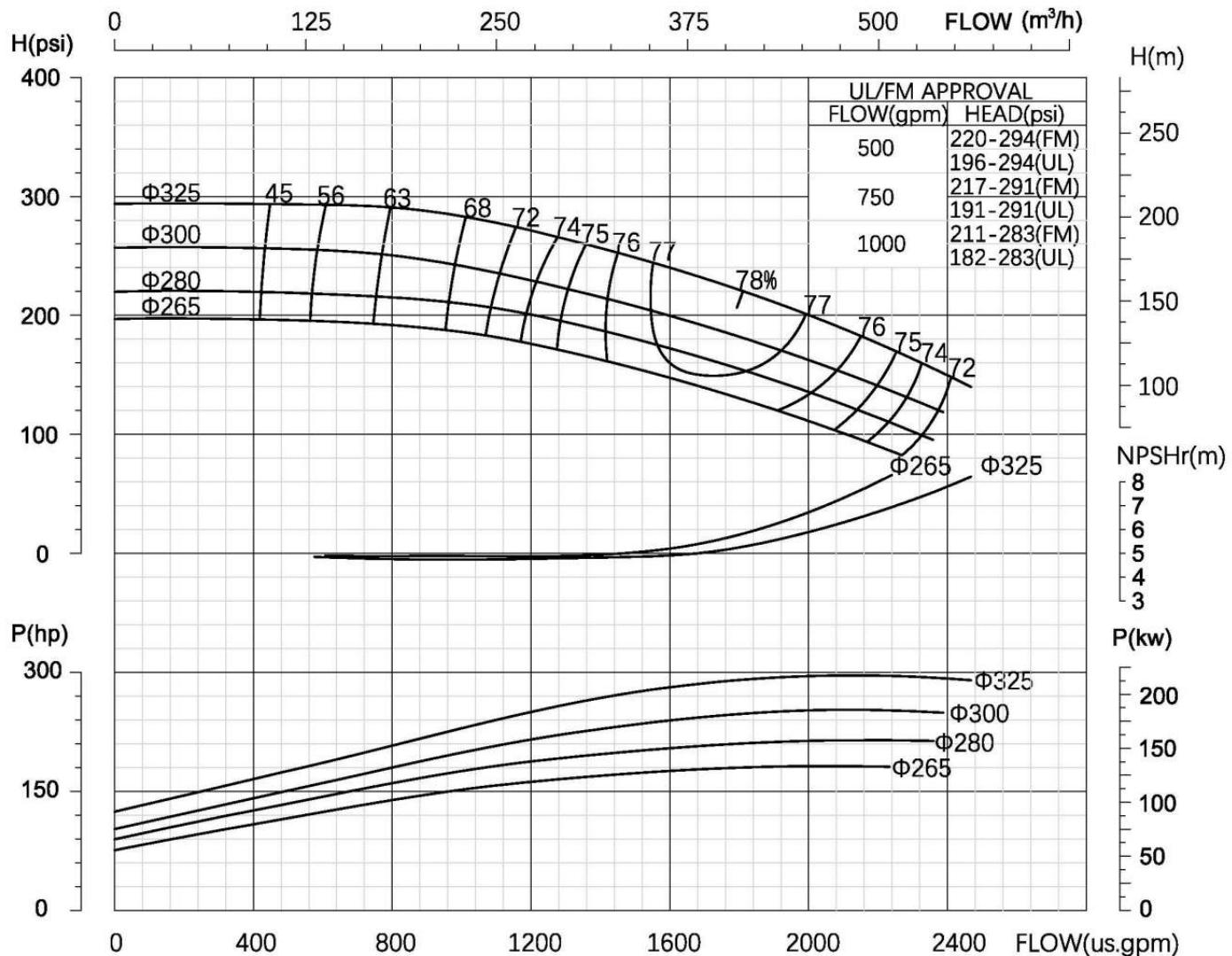
Flange rating(suction/discharge) : class 250, RF
Size : 6x5inch
Stages : 1
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 310psi
Max suction pressure,allowable : 75psi
Max brake horse power : 118~227hp

Curve No.: CNPA206006@CNPA150-125-250@3550rpm@500→1000usgpm



PERFORMANCE CURVES - CNPAx

CNPA150-125-310



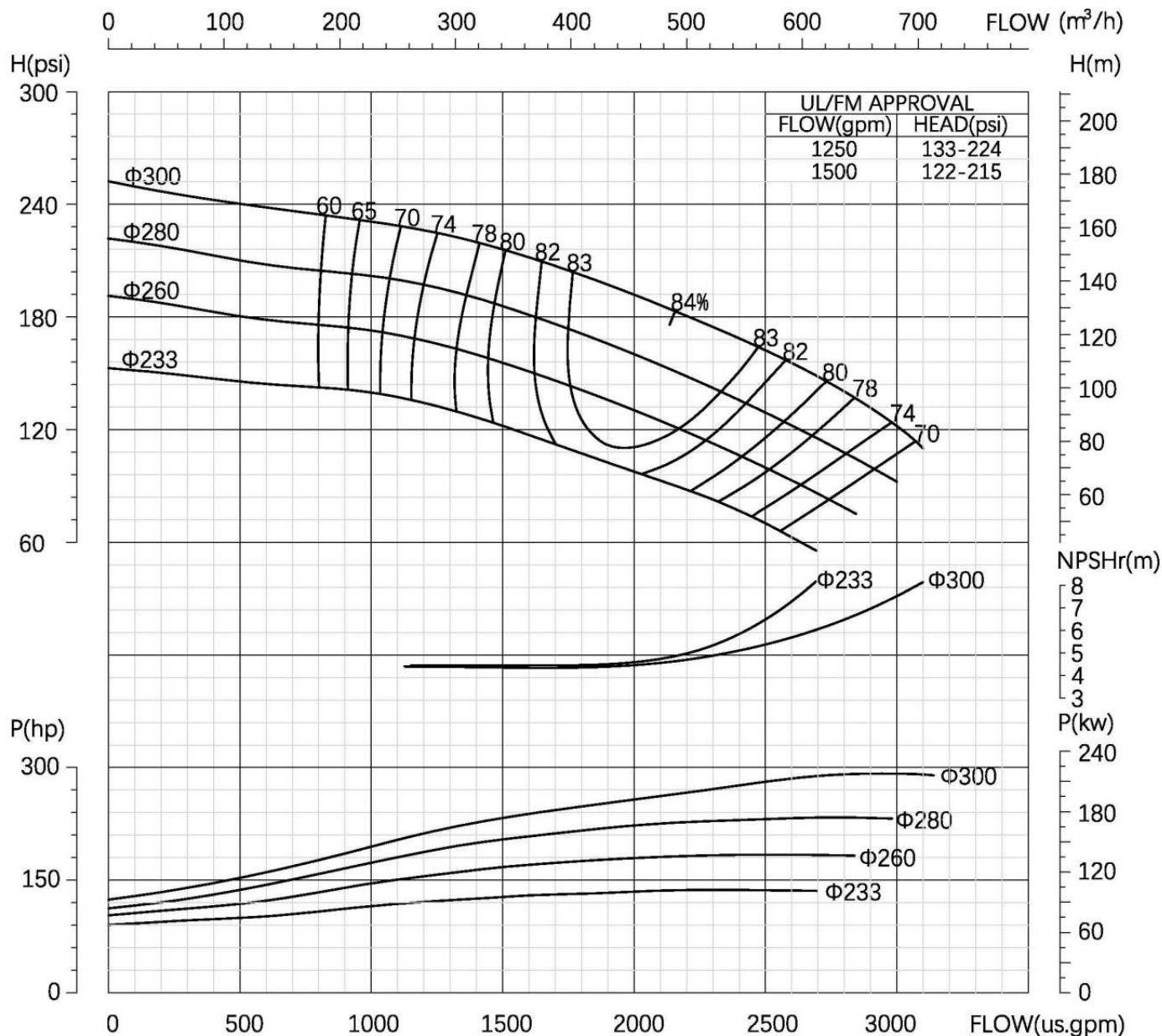
Flange rating(suction/discharge) : class 250, RF
Size : 6x5inch
Stages : 1
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 370psi
Max suction pressure,allowable : 75psi
Max brake horse power : 182~296hp

Curve No.: CNPA206007@CNPA150-125-310@3550rpm@500→1000usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-250



Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 330psi
Max suction pressure,allowable : 75psi
Max brake horse power : 138-292hp

Curve No.: CNPA206008@CNPA200-150-250@3550rpm@1250→1500usgpm

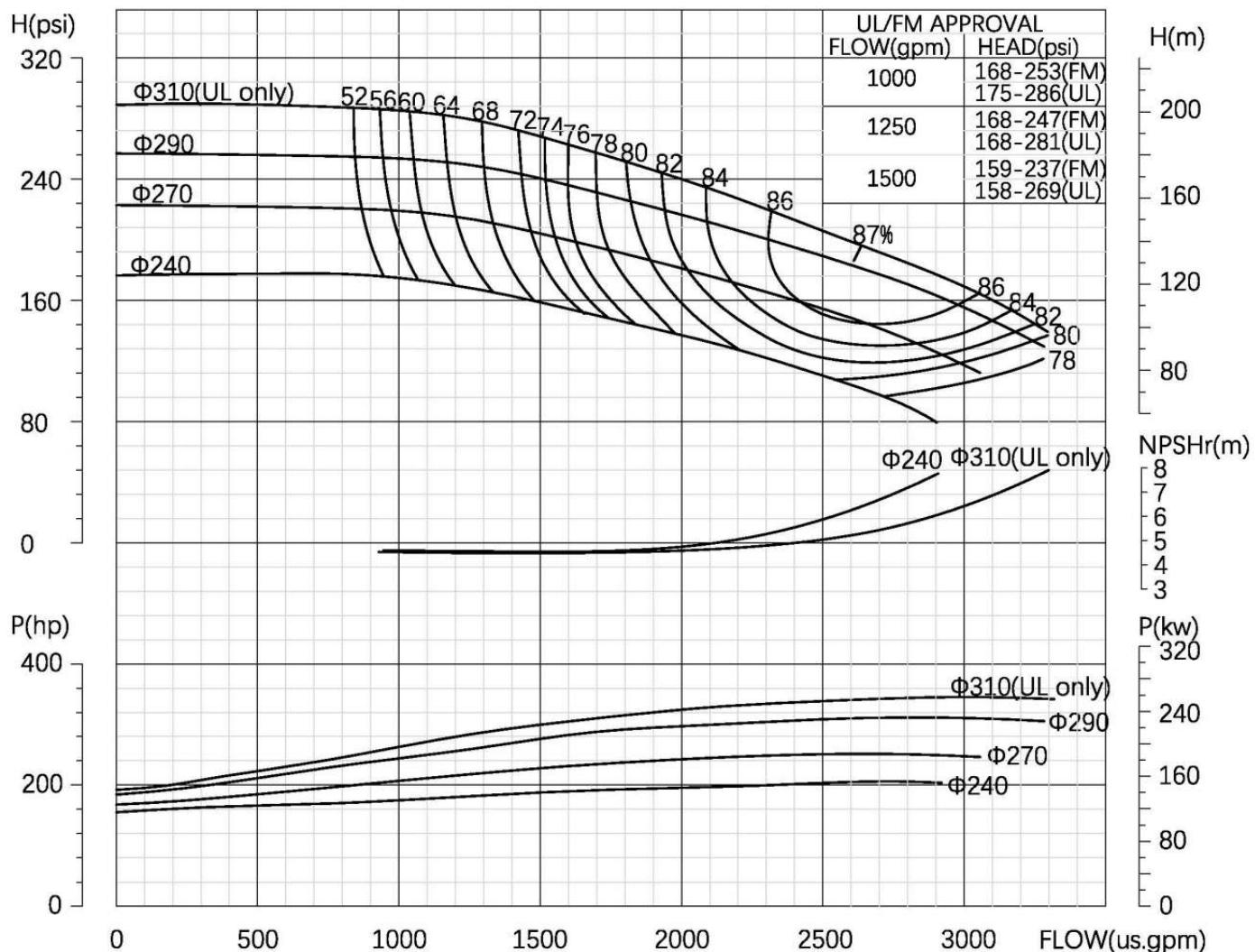


PERFORMANCE CURVES - CNPAx

CNPA200-150-310



0 100 200 300 400 500 600 700 FLOW (m^3/h)



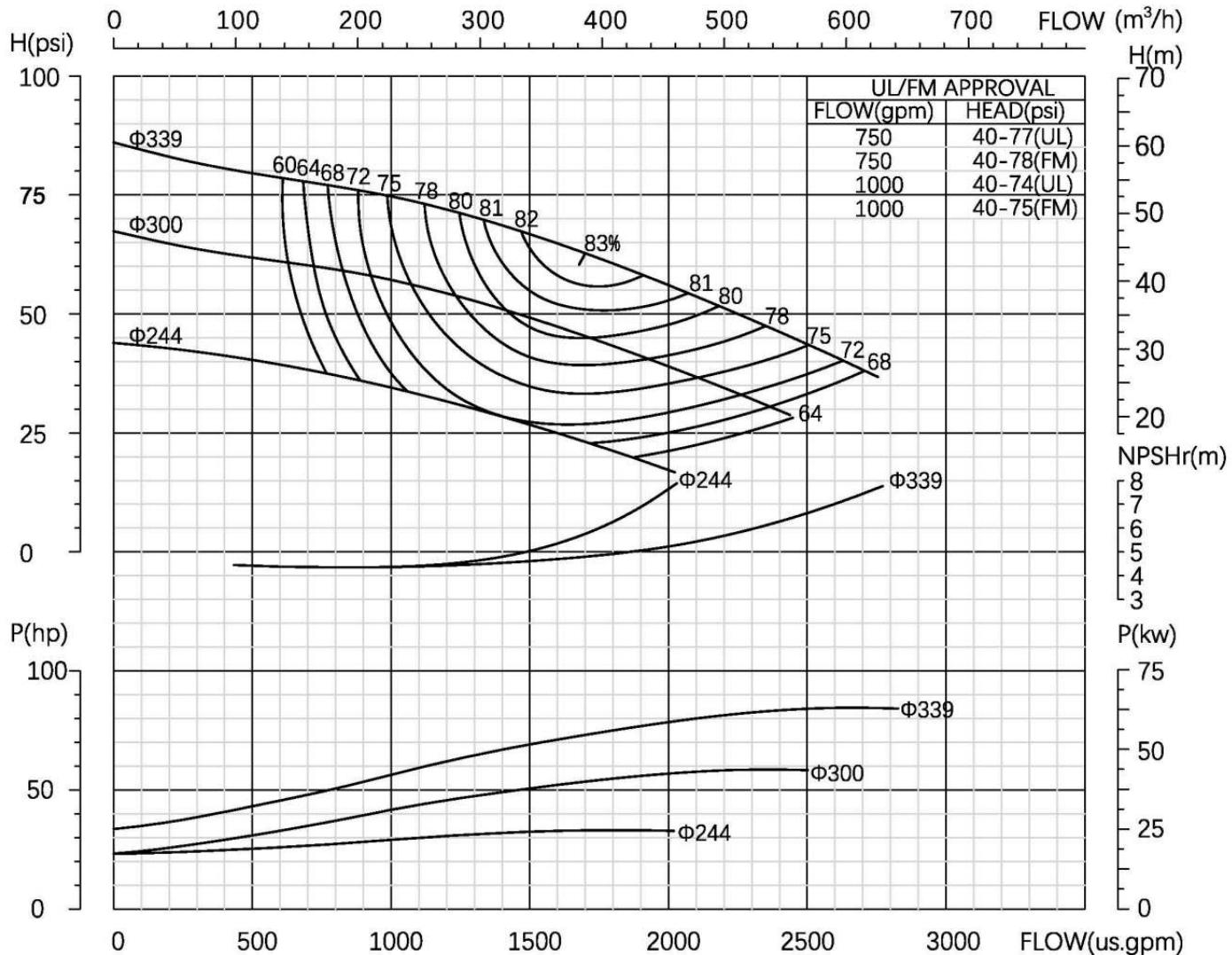
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 370psi
Max suction pressure,allowable : 75psi
Max brake horse power : 203~342hp

Curve No.: CNPA206009@CNPA200-150-310@3550rpm@1000→1500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-330

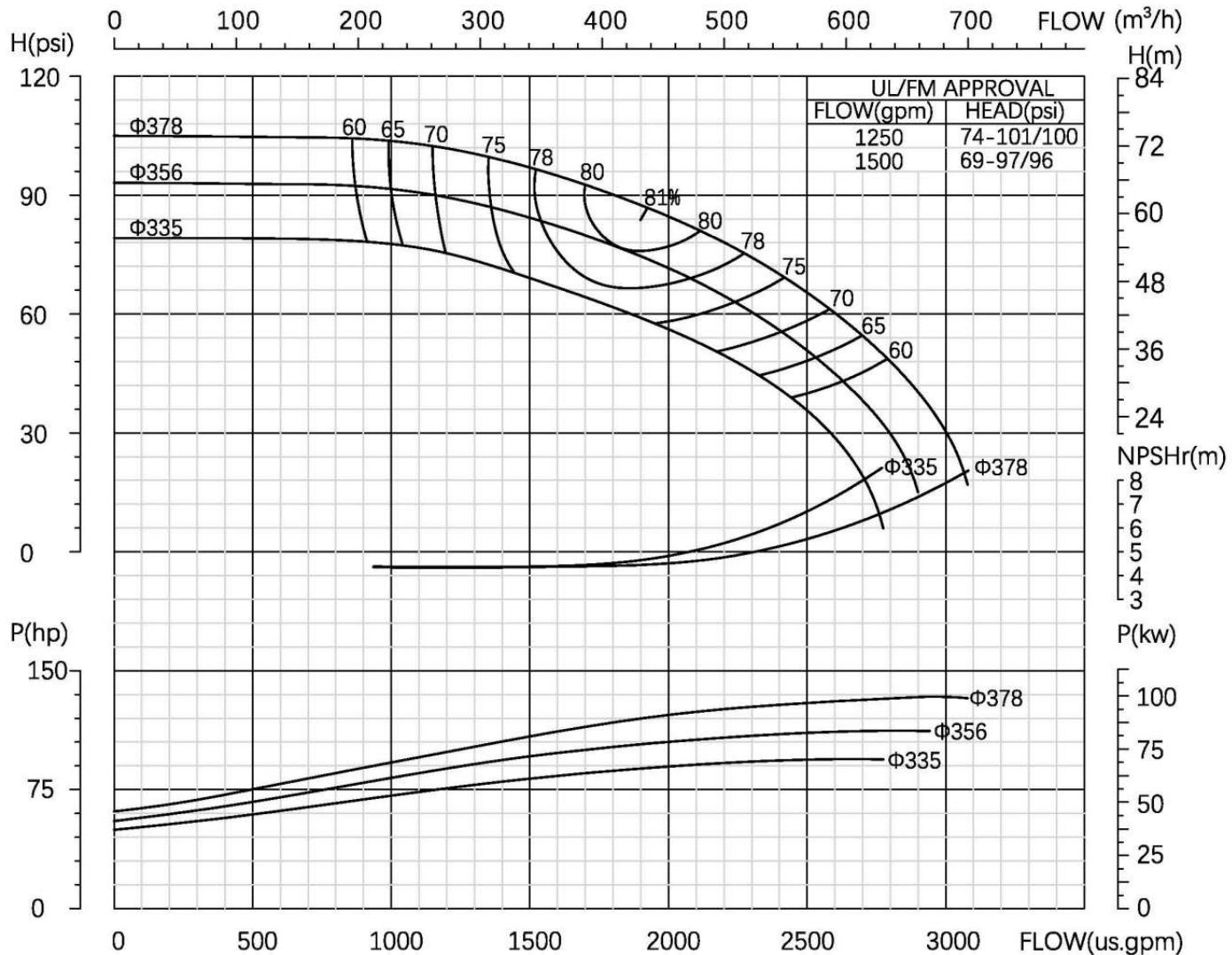


Curve No.: CNPA236010@CNPA200-150-330@1760rpm@750→1000usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-350



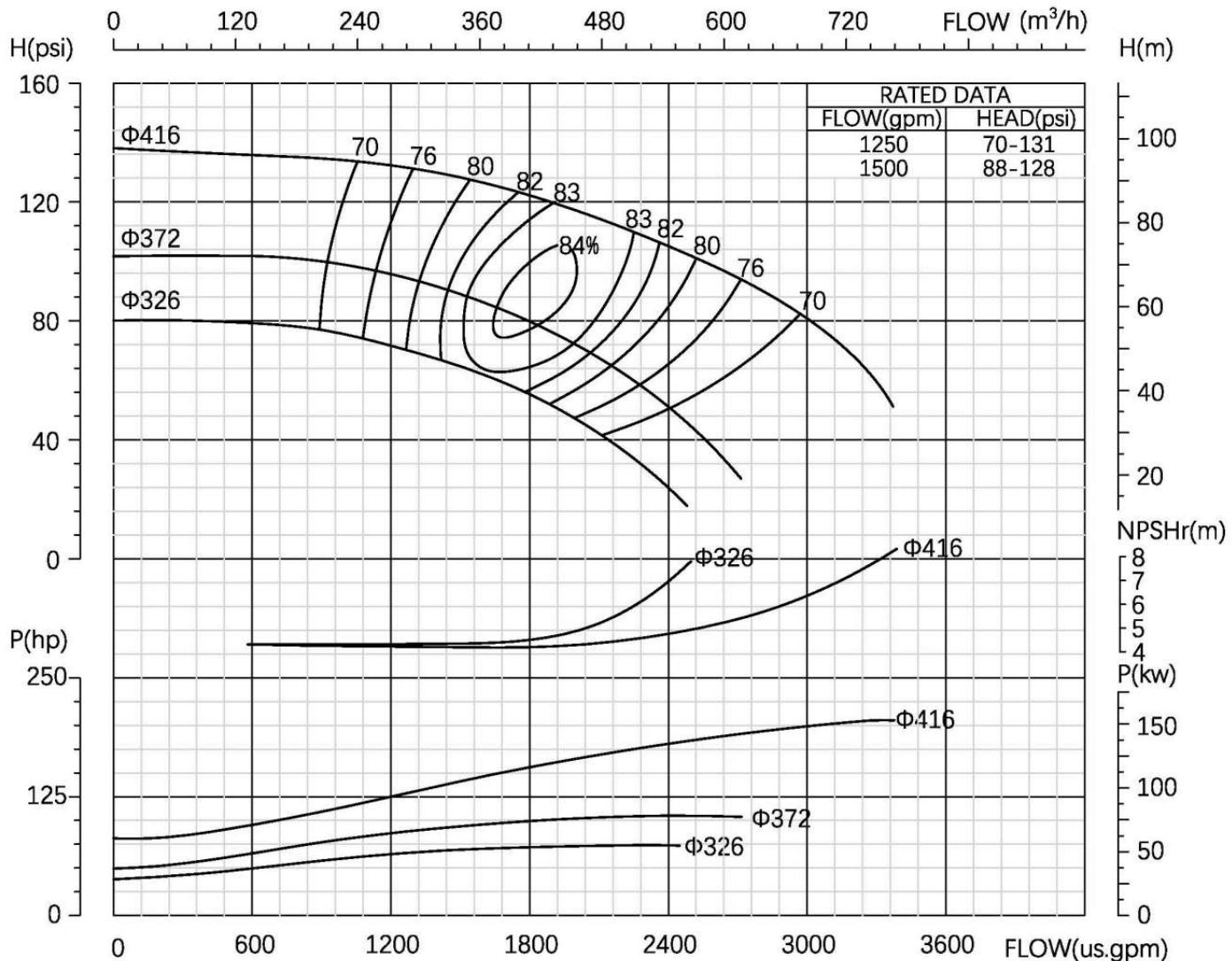
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 60Hz
Speed,rated : 1760rpm
Max working pressure,allowable : 220psi
Max suction pressure,allowable : 75psi
Max brake horse power : 94~133hp

Curve No.: CNPA236011@CNPA200-150-350@1760rpm@1250→1500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-375



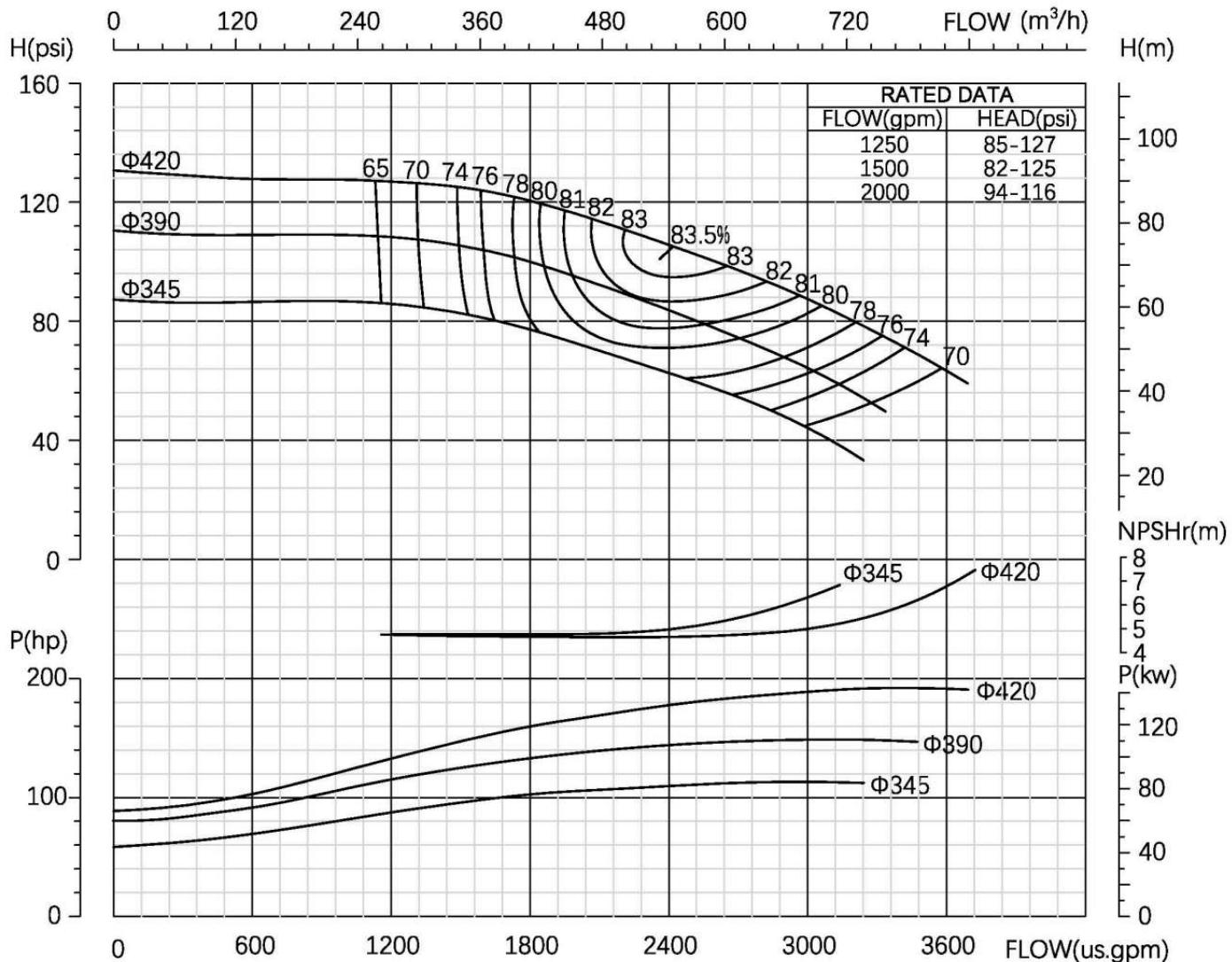
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 60Hz
Speed, rated : 1760rpm
Max working pressure, allowable : 270psi
Max suction pressure, allowable : 75psi
Max brake horse power : 74~205hp

Curve No.: CNPA206011@CNPA200-150-375@1760rpm@1250→1500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-400



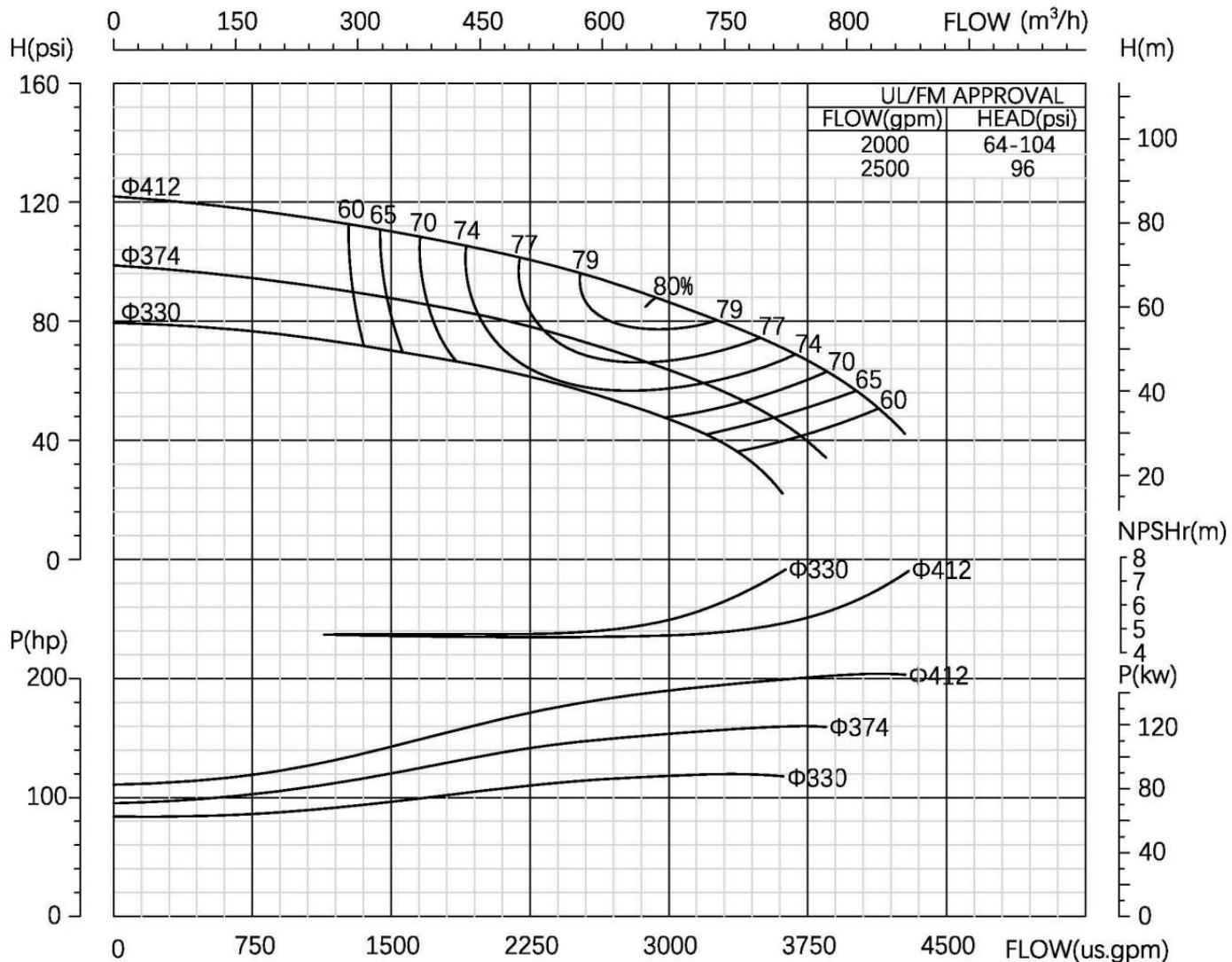
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 60Hz
Speed,rated : 1760rpm
Max working pressure,allowable : 270psi
Max suction pressure,allowable : 75psi
Max brake horse power : 113~191hp

Curve No.: CNPA206012@CNPA200-150-400@1760rpm@1250→2000usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-400G



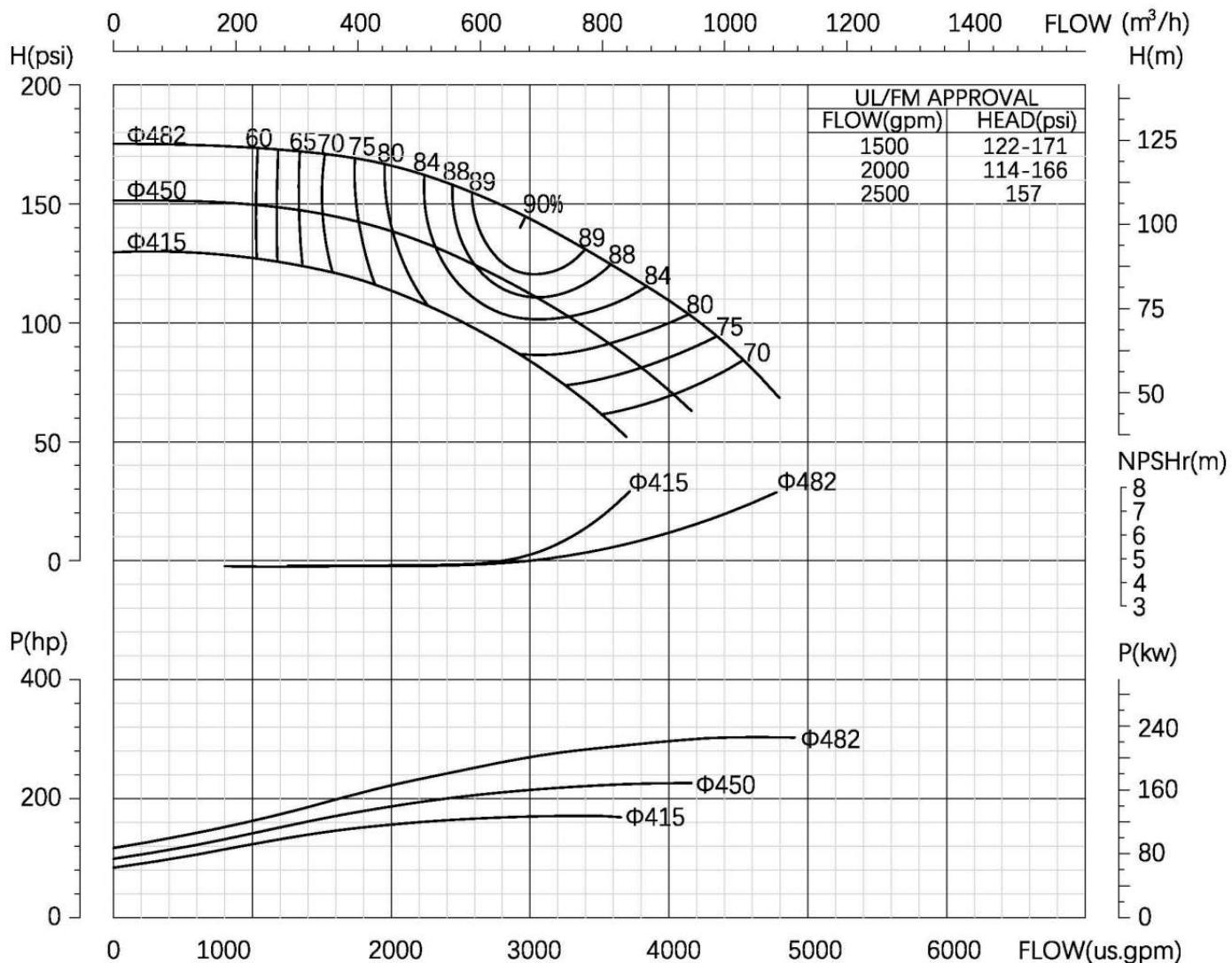
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 60Hz
Speed,rated : 1760rpm
Max working pressure,allowable : 232psi
Max suction pressure,allowable : 75psi
Max brake horse power : 119~204hp

Curve No.: CNPA236012@CNPA200-150-400G@1760rpm@2000→2500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-480



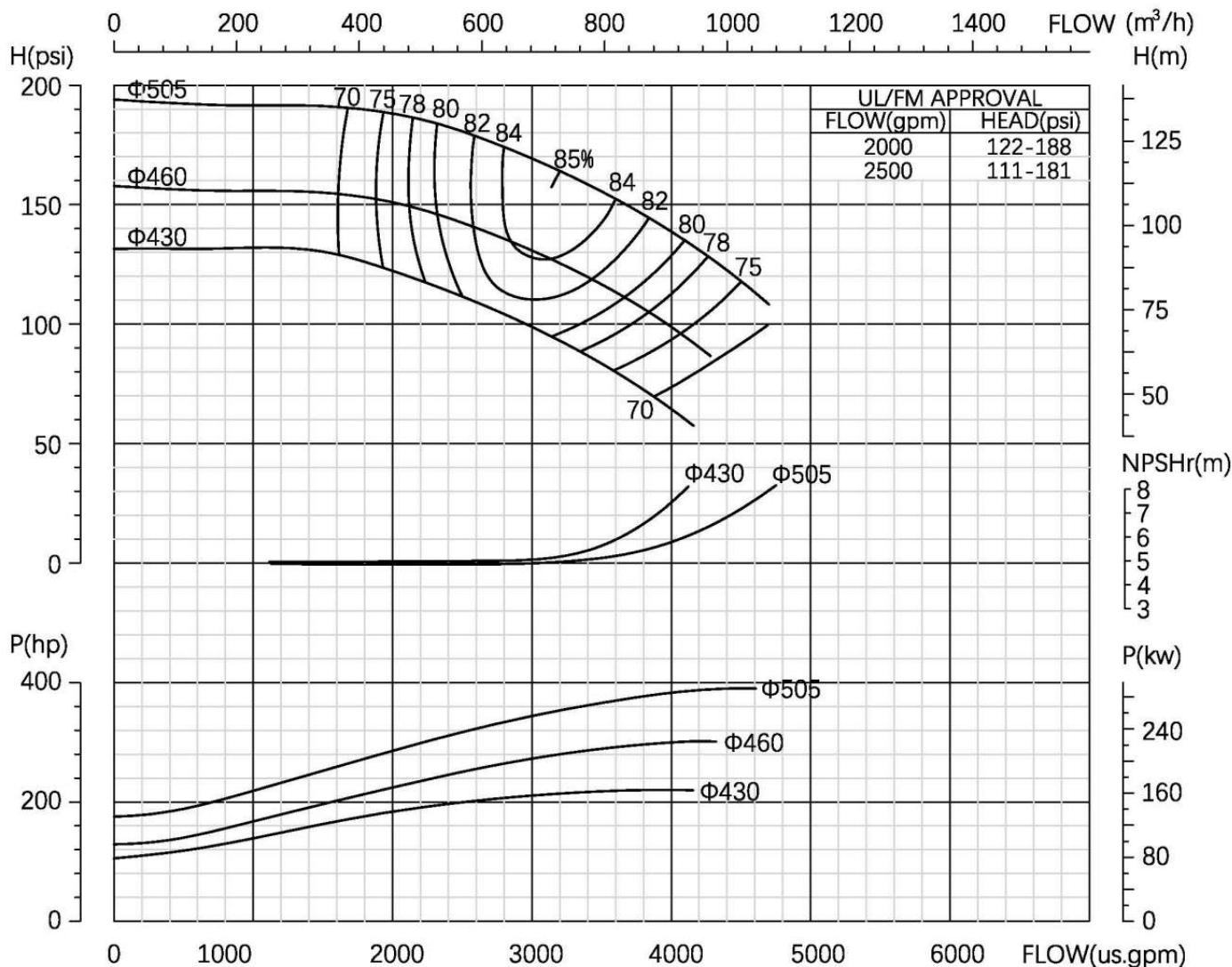
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 60Hz
Speed,rated : 1760rpm
Max working pressure,allowable : 278psi
Max suction pressure,allowable : 75psi
Max brake horse power : 172~303hp

Curve No.: CNPA206014@CNPA200-150-480@1760rpm@1500→2500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-480GL



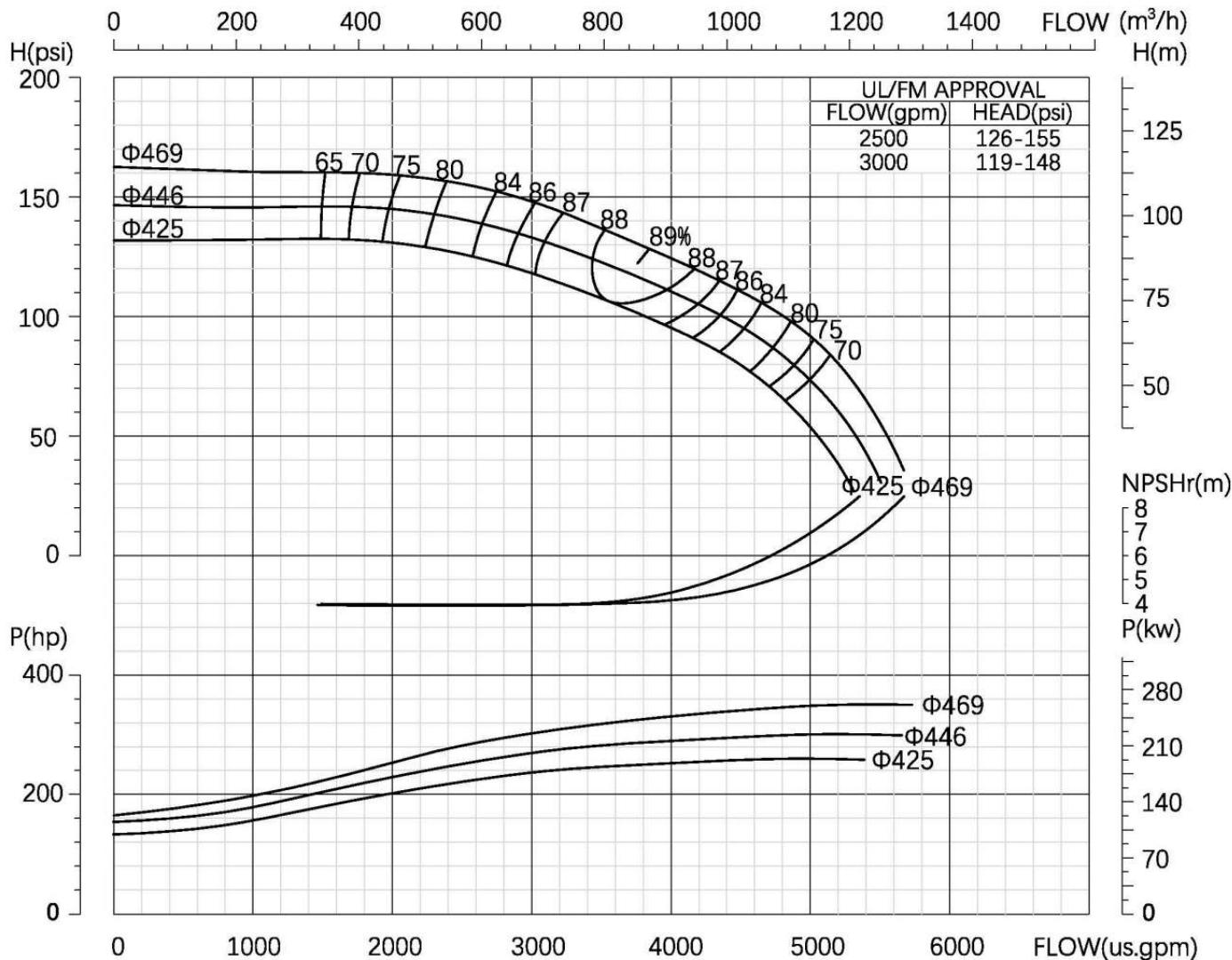
Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 1
Frequency : 60Hz
Speed,rated : 1760rpm
Max working pressure,allowable : 275psi
Max suction pressure,allowable : 75psi
Max brake horse power : 218~389hp

Curve No.: CNPA206015@CNPA200-150-480GL@1760rpm@2000→2500usgpm



PERFORMANCE CURVES - CNPAx

CNPA250-200-450

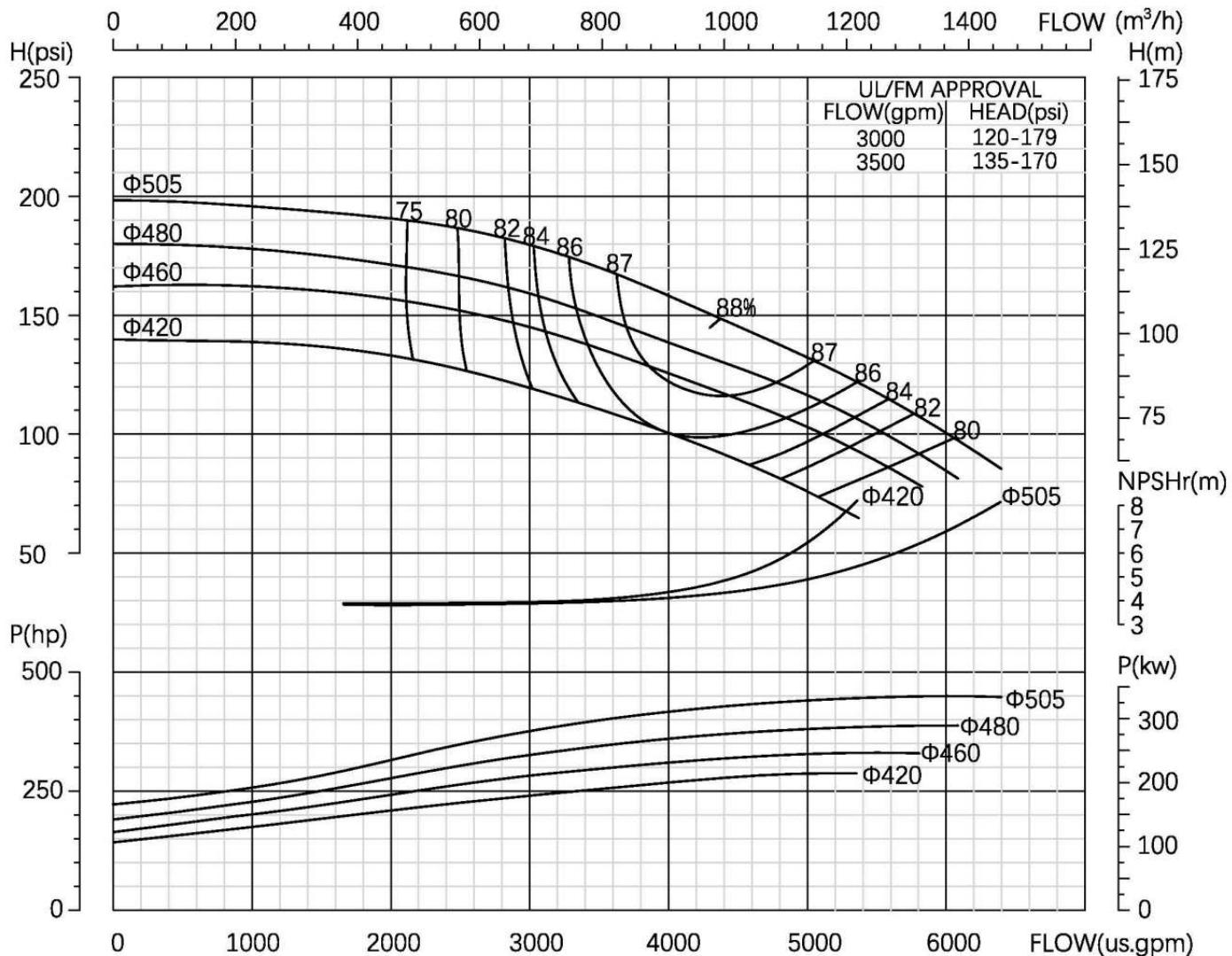


Flange rating(suction/discharge) : class 250, RF
Size : 10x8inch
Stages : 1
Frequency : 60Hz
Speed,rated : 1760rpm
Max working pressure,allowable : 250psi
Max suction pressure,allowable : 75psi
Max brake horse power : 260-348hp



PERFORMANCE CURVES - CNPAx

CNPA250-200-500



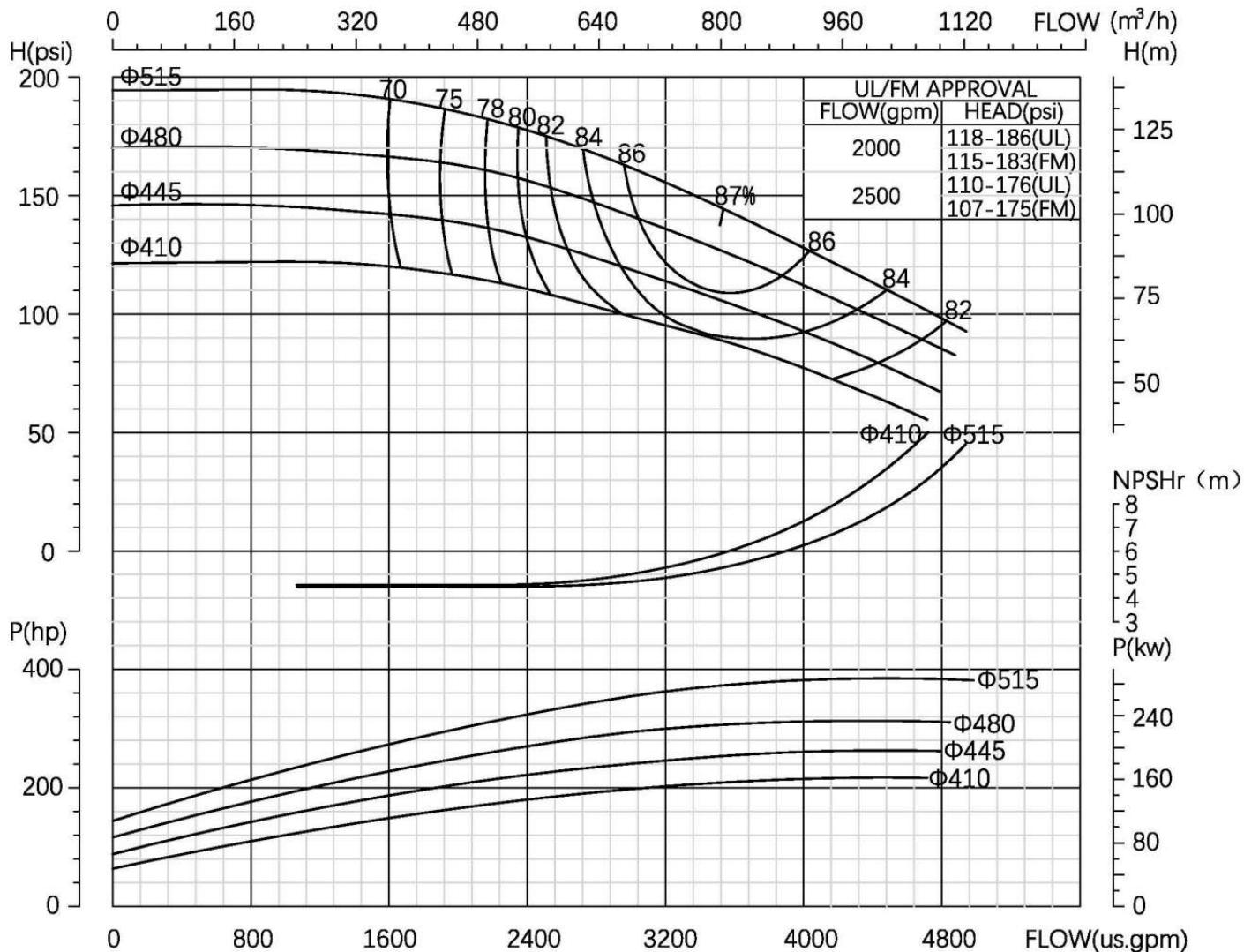
Flange rating(suction/discharge) : class 250, RF
Size : 10x8inch
Stages : 1
Frequency : 60Hz
Speed, rated : 1760rpm
Max working pressure, allowable : 340psi
Max suction pressure, allowable : 75psi
Max brake horse power : 288-460hp

Curve No.: CNPA236017@CNPA250-200-500@1760rpm@3000→3500usgpm



PERFORMANCE CURVES - CNPAx

CNPA250-200-500S



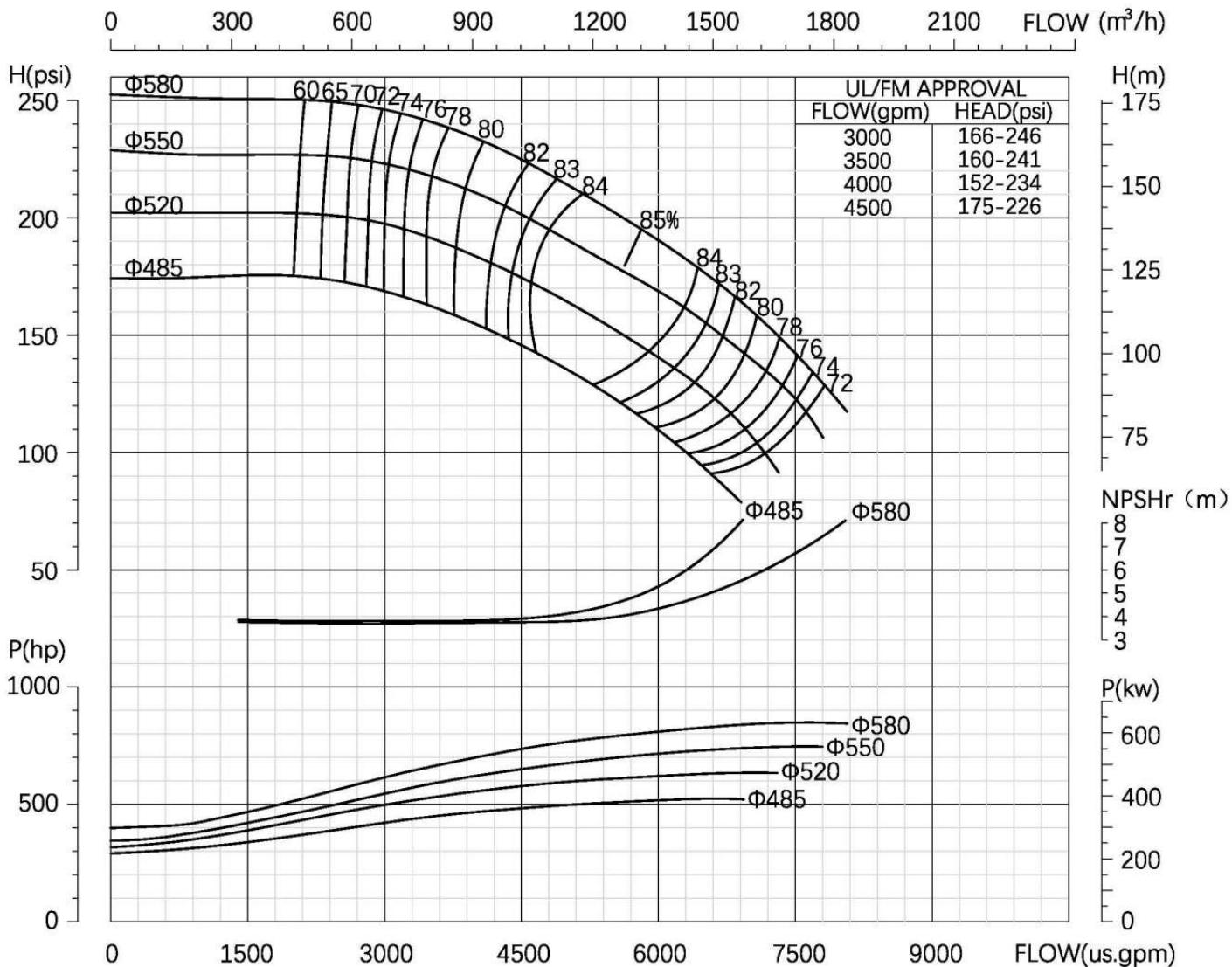
Flange rating(suction/discharge) : class 250, RF
Size : 10x8inch
Stages : 1
Frequency : 60Hz
Speed, rated : 1800rpm(UL), 1760rpm(FM)
Max working pressure, allowable : 320psi
Max suction pressure, allowable : 75psi
Max brake horse power : 217-385hp

Curve No.: CNPA236018@CNPA250-200-500S@1760-1800rpm@2000→2500usgpm



PERFORMANCE CURVES - CNPAx

CNPA250-200-600



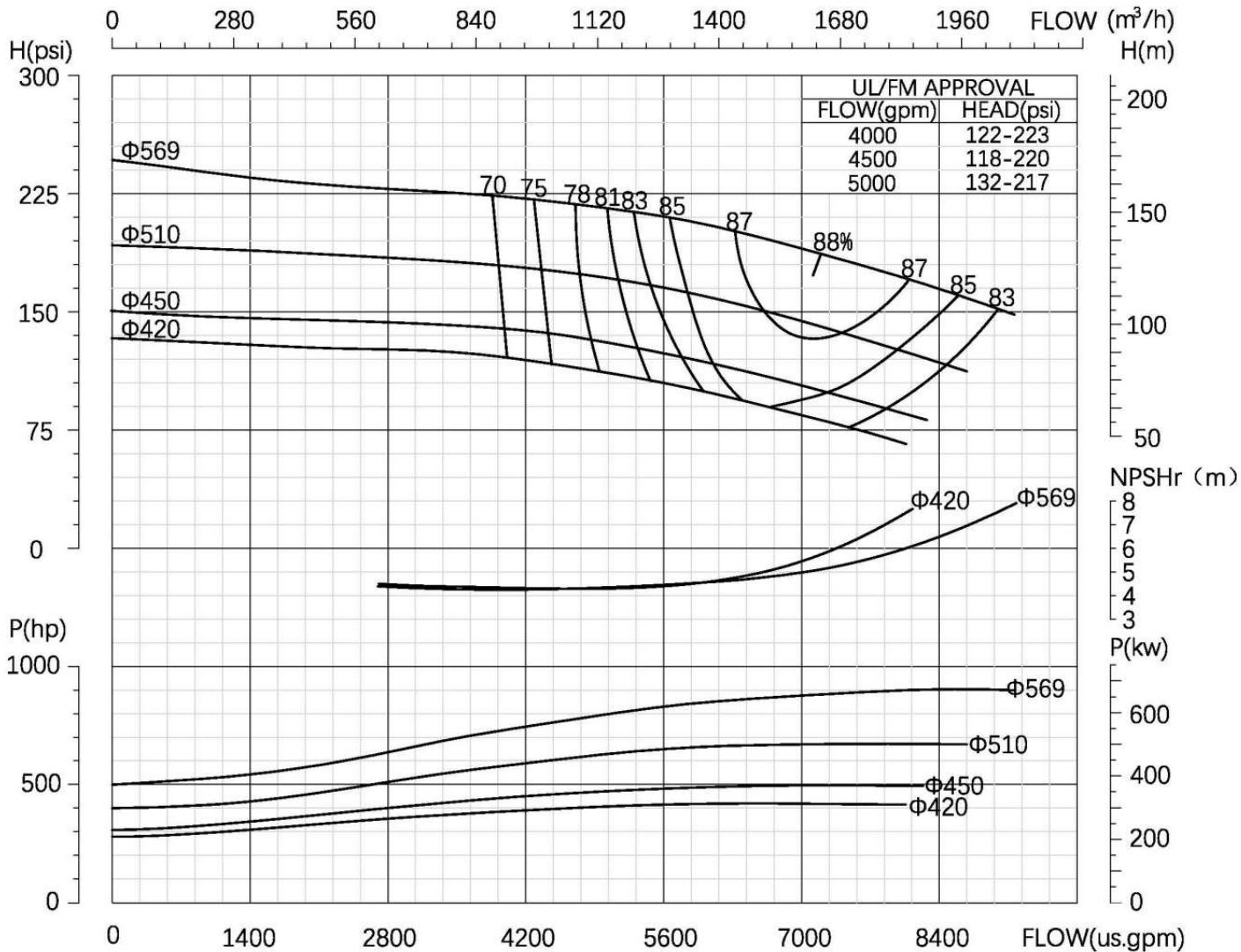
Flange rating(suction/discharge) : class 250, RF
Size : 10x8inch
Stages : 1
Frequency : 60Hz
Speed,rated : 1760rpm
Max working pressure,allowable : 330psi
Max suction pressure,allowable : 75psi
Max brake horse power : 510-842hp

Curve No.: CNPA206019@CNPA250-200-600@1760rpm@3000→4500usgpm



PERFORMANCE CURVES - CNPAx

CNPA300-250-500



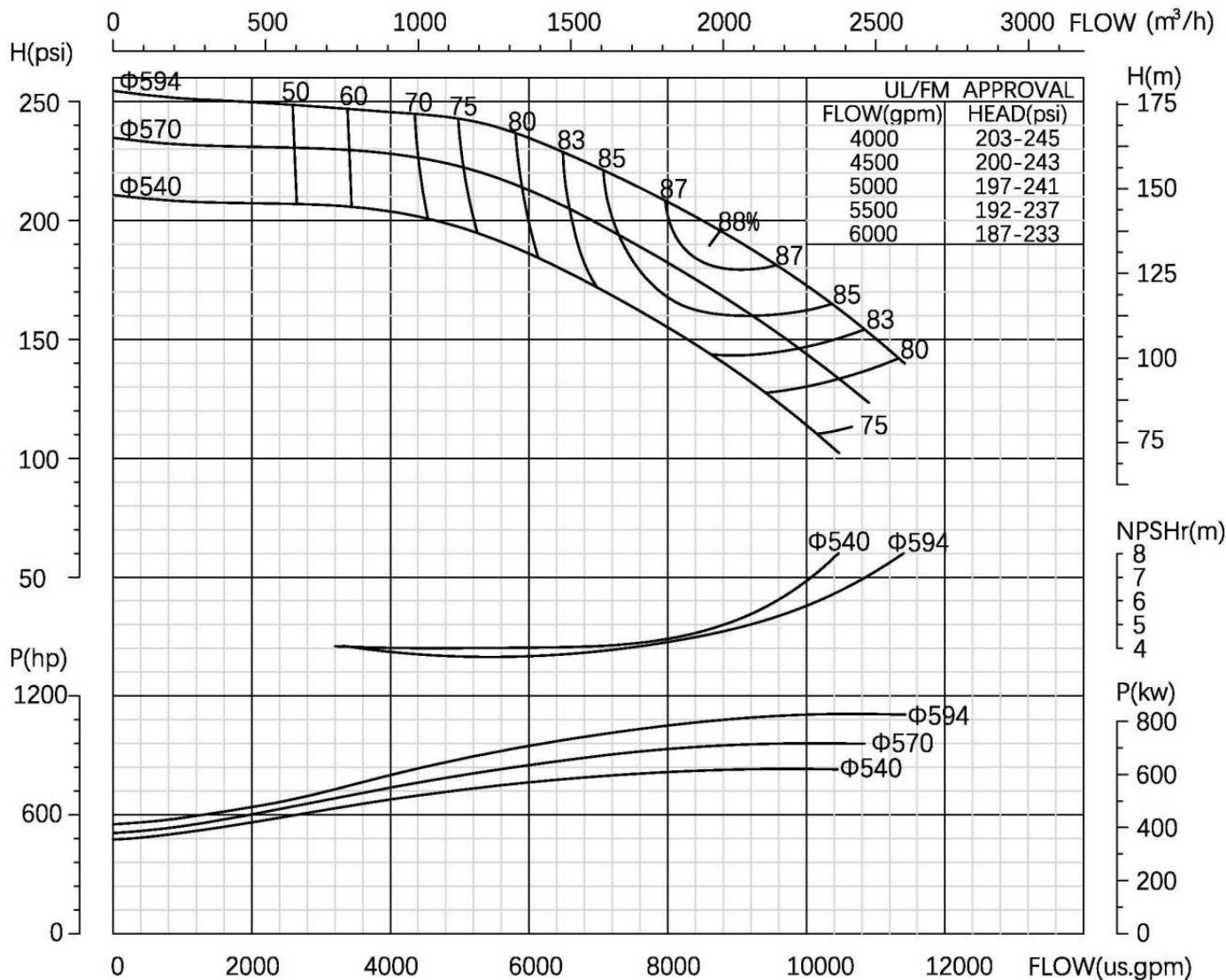
Flange rating(suction/discharge) : class 250, RF
Size : 12x10inch
Stages : 1
Frequency : 60Hz
Speed,rated : 1800rpm
Max working pressure,allowable : 330psi
Max suction pressure,allowable : 75psi
Max brake horse power : 418-904hp

Curve No.: CNPA206020@CNPA300-250-500@1800rpm@4000→5000usgpm



PERFORMANCE CURVES - CNPAx

CNPA300-250-600L



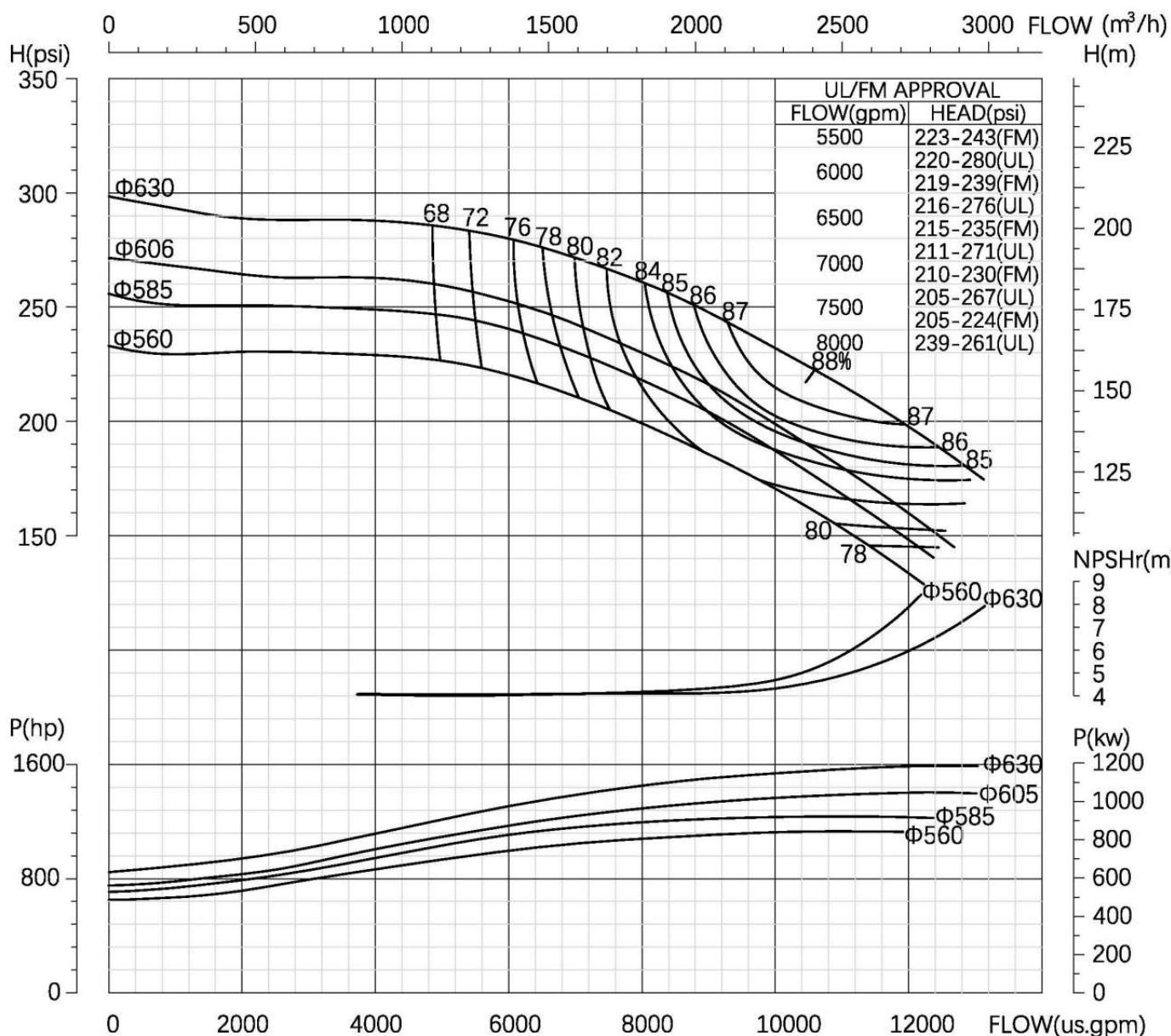
Flange rating(suction/discharge) : class 250, RF
Size : 12x10inch
Stages : 1
Frequency : 60Hz
Speed,rated : 1760rpm
Max working pressure,allowable : 350psi
Max suction pressure,allowable : 75psi
Max brake horse power : 832-1109hp

Curve No.: CNPA236026@CNPA300-250-600L@1760rpm@4000→6000usgpm



PERFORMANCE CURVES - CNPAx

CNPA350-250-640



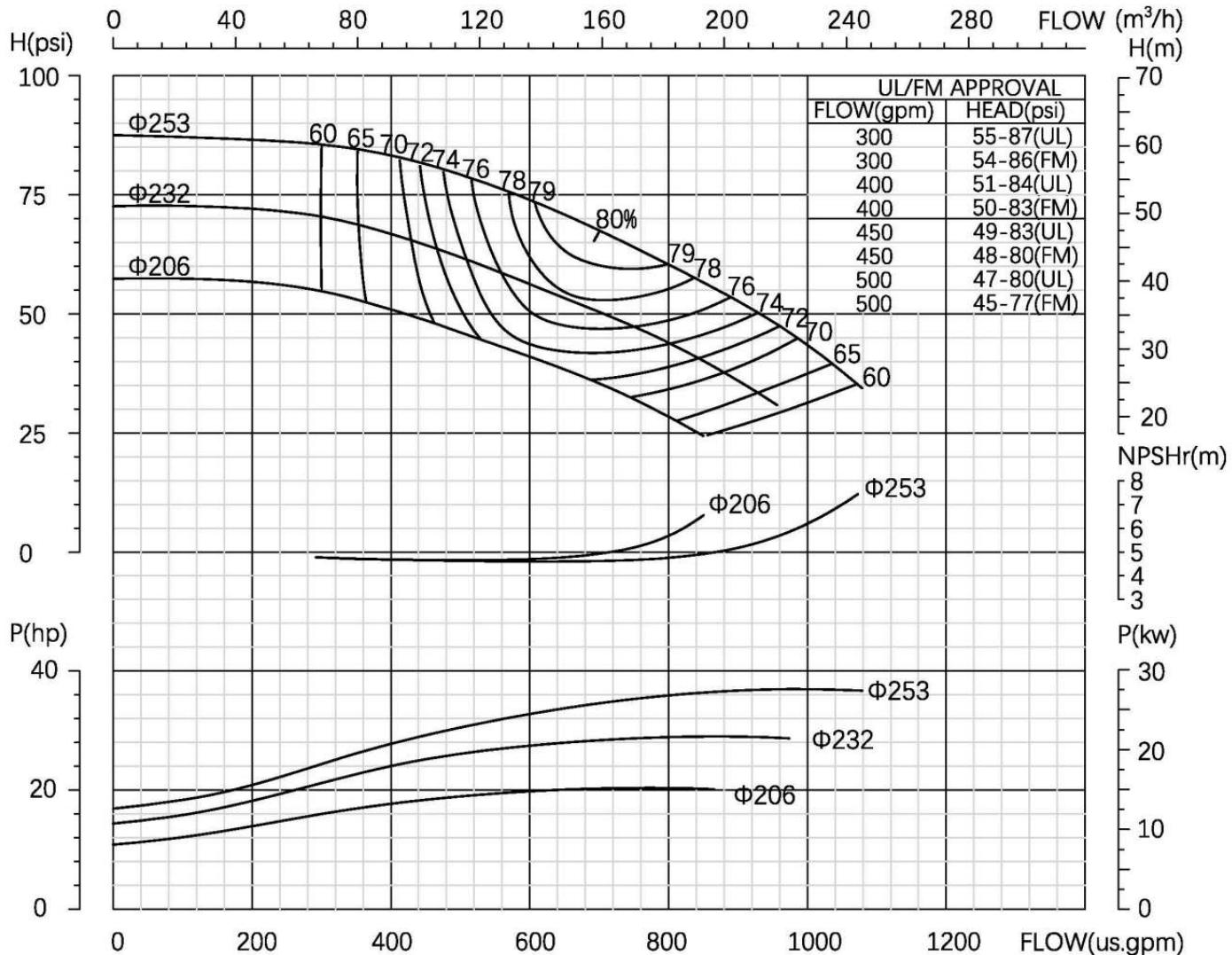
Flange rating(suction/discharge) : class 250, RF
Size : 14x10inch
Stages : 1
Frequency : 60Hz
Speed,rated : 1760rpm
Max working pressure,allowable : 300psi
Max suction pressure,allowable : 75psi
Max brake horse power : 1120-1591hp

Curve No.: CNPA206021@CNPA350-250-640@1760rpm@4000→7500usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-80-250



Flange rating(suction/discharge) : class 250, RF

Size : 5x3inch

Stages : 1

Speed,rated : 2350rpm

Max working pressure,allowable : 280psi

Max suction pressure,allowable : 75psi

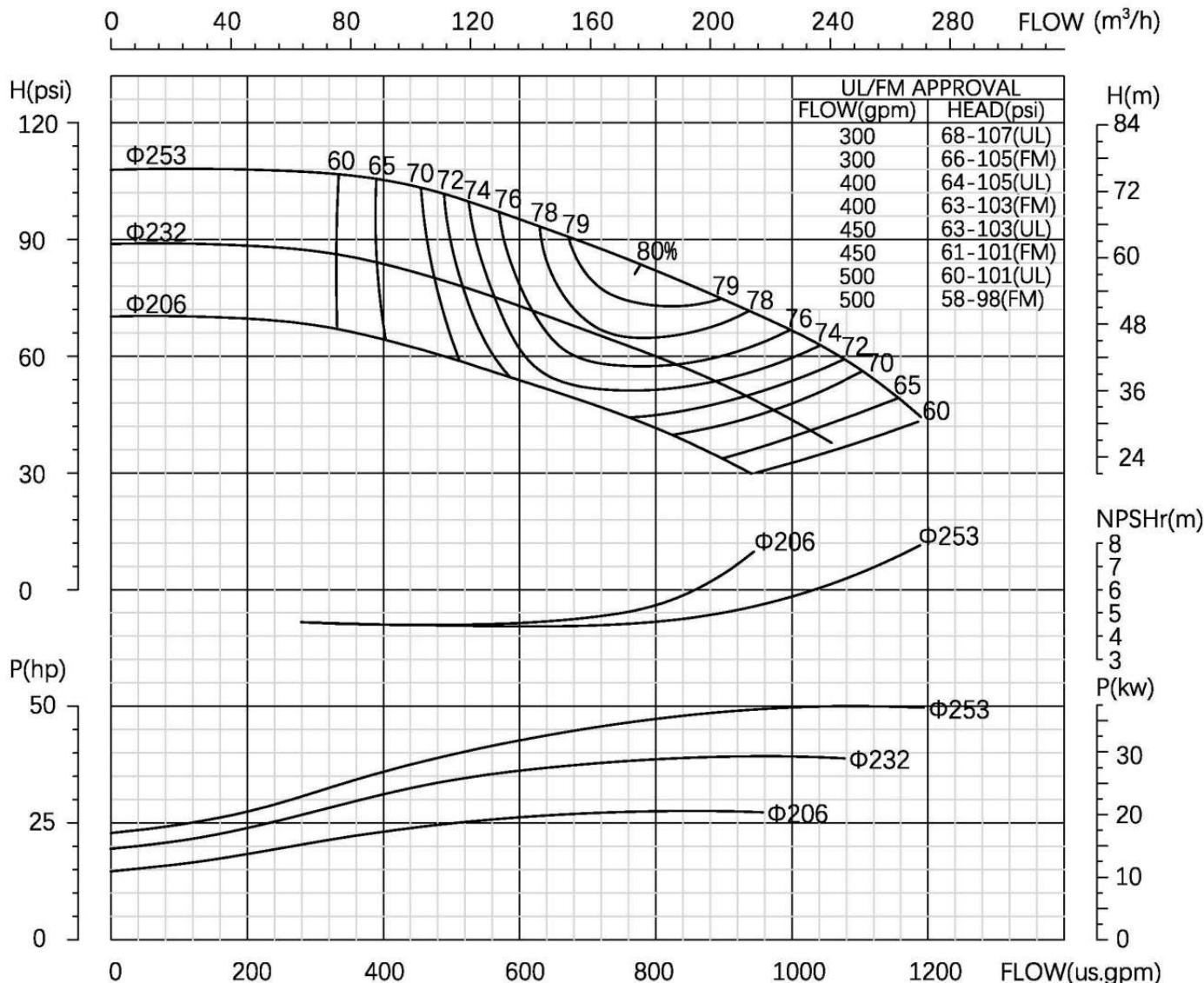
Max brake horse power : 20~37hp

Curve No.: CNPA230001@CNPA125-80-250@2350rpm@300→500usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-80-250

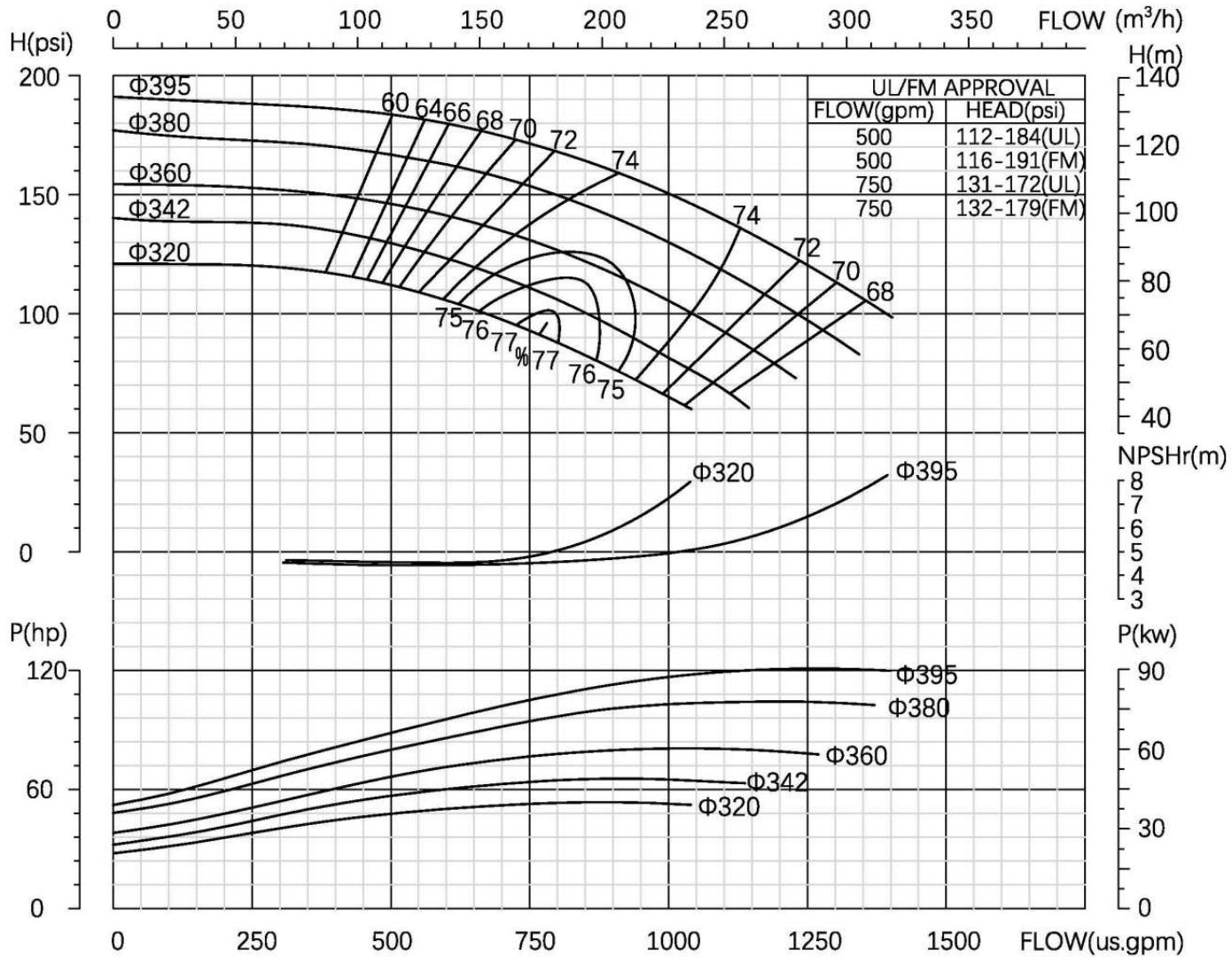


Curve No.: CNPA230002@CNPA125-80-250@2600rpm@300→500usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-80-350



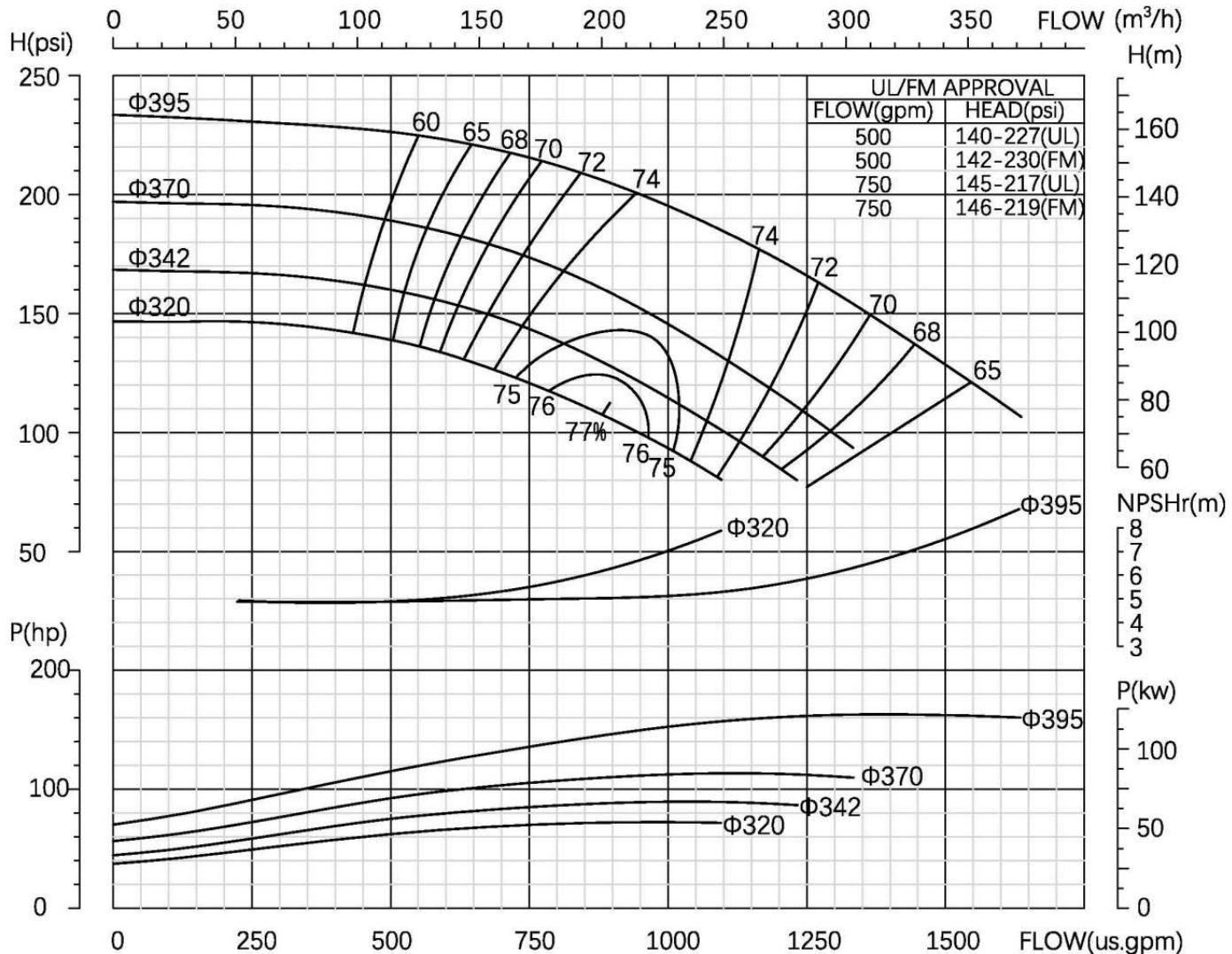
Flange rating(suction/discharge) : class 250, RF
Size : 5x3inch
Stages : 1
Speed,rated : 2350rpm(UL),2380rpm(FM)
Max working pressure,allowable : 380psi
Max suction pressure,allowable : 75psi
Max brake horse power : 53~121hp

Curve No.: CNPA230003@CNPA125-80-350@2350-2380rpm@500→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-80-350



Flange rating(suction/discharge) : class 250, RF

Size : 5x3inch

Stages : 1

Speed,rated : 2600rpm

Max working pressure,allowable : 380psi

Max suction pressure,allowable : 75psi

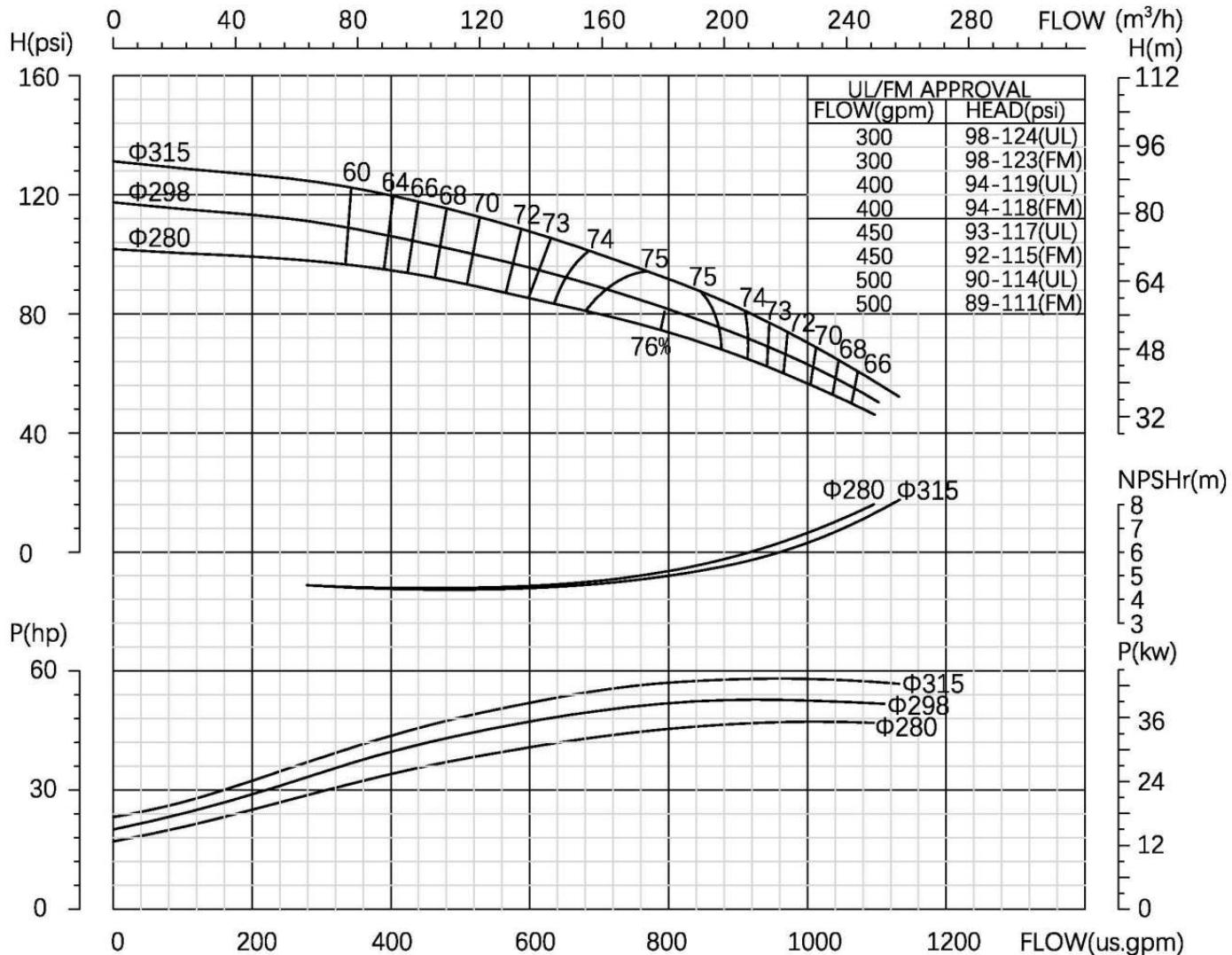
Max brake horse power : 73~163hp

Curve No.: CNPA230004@CNPA125-80-350@2600rpm@500→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-100-300



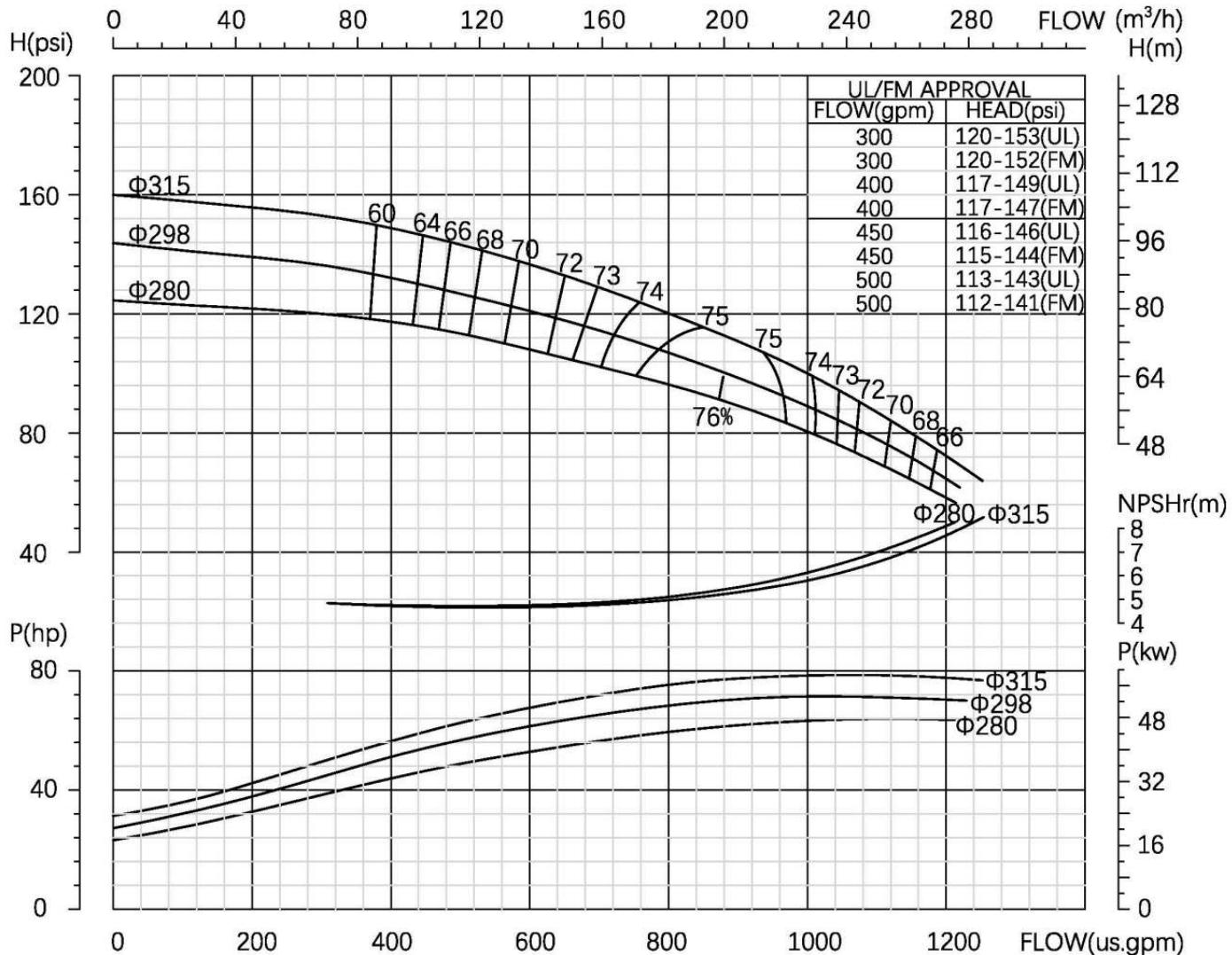
Flange rating(suction/discharge) : class 250, RF
Size : 5x4inch
Stages : 1
Speed,rated : 2350rpm
Max working pressure,allowable : 400psi
Max suction pressure,allowable : 75psi
Max brake horse power : 47~58hp

Curve No.: CNPA230005@CNPA125-100-300@2350rpm@300→500usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-100-300



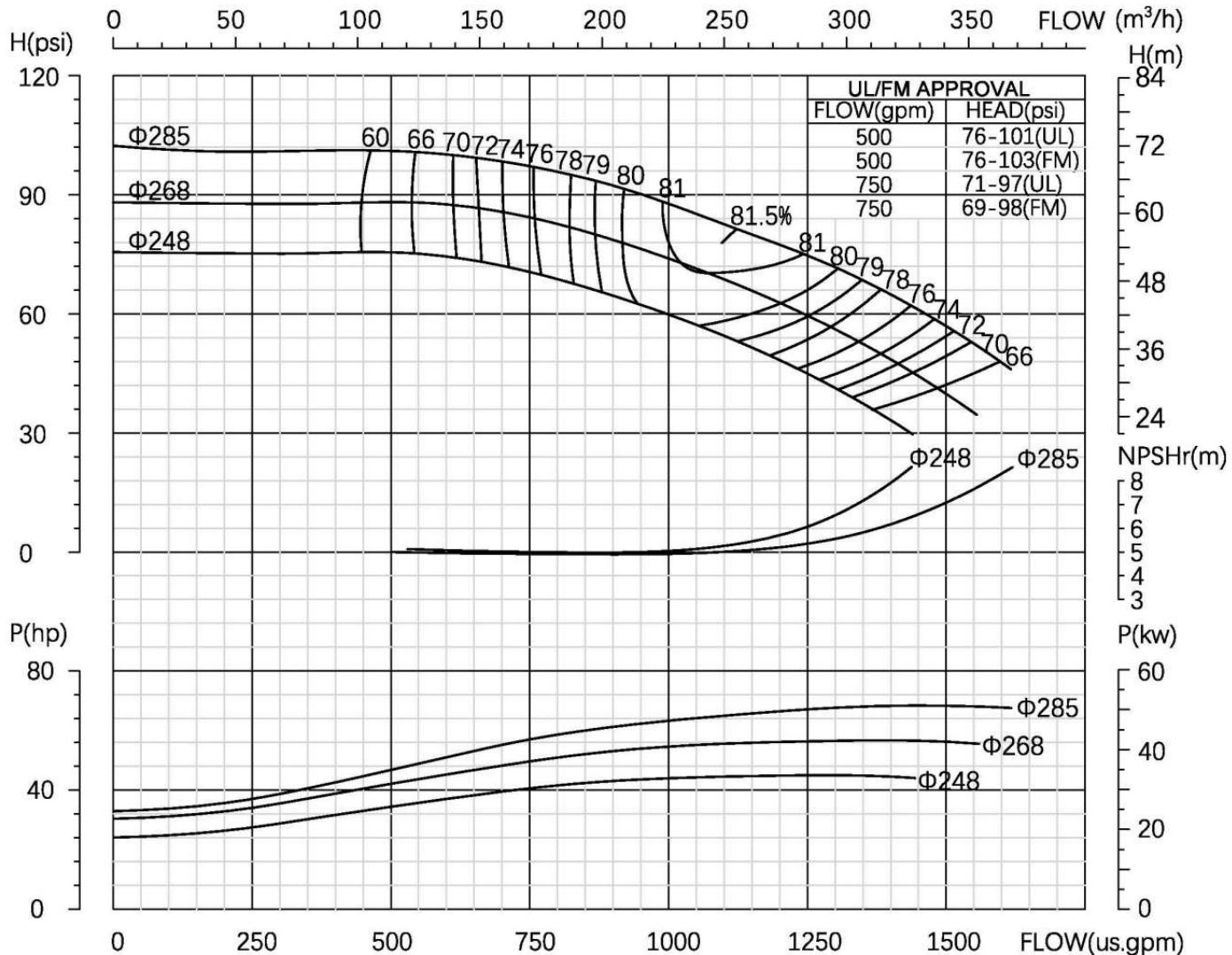
Flange rating(suction/discharge) : class 250, RF
Size : 5x4inch
Stages : 1
Speed,rated : 2600rpm
Max working pressure,allowable : 400psi
Max suction pressure,allowable : 75psi
Max brake horse power : 64~79hp

Curve No.: CNPA230006@CNPA125-100-300@2600rpm@300→500usgpm



PERFORMANCE CURVES - CNPAx

CNPA150-125-250



Flange rating(suction/discharge) : class 250, RF

Size : 6x5inch

Stages : 1

Speed,rated : 2350rpm

Max working pressure,allowable : 310psi

Max suction pressure,allowable : 75psi

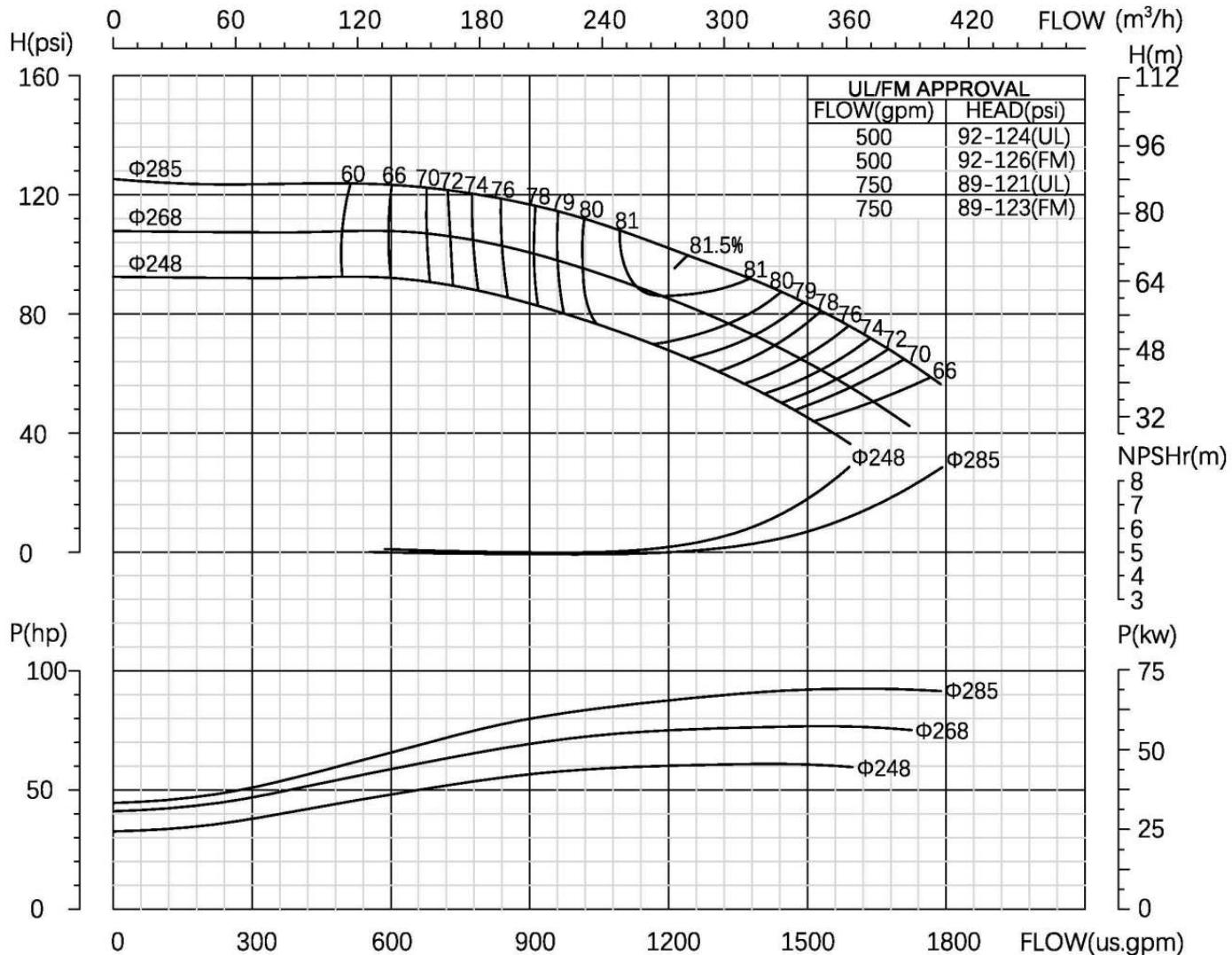
Max brake horse power : 45~68hp

Curve No.: CNPA230007@CNPA150-125-250@2350rpm@500→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA150-125-250



Flange rating(suction/discharge) : class 250, RF

Size : 6x5inch

Stages : 1

Speed,rated : 2600rpm

Max working pressure,allowable : 310psi

Max suction pressure,allowable : 75psi

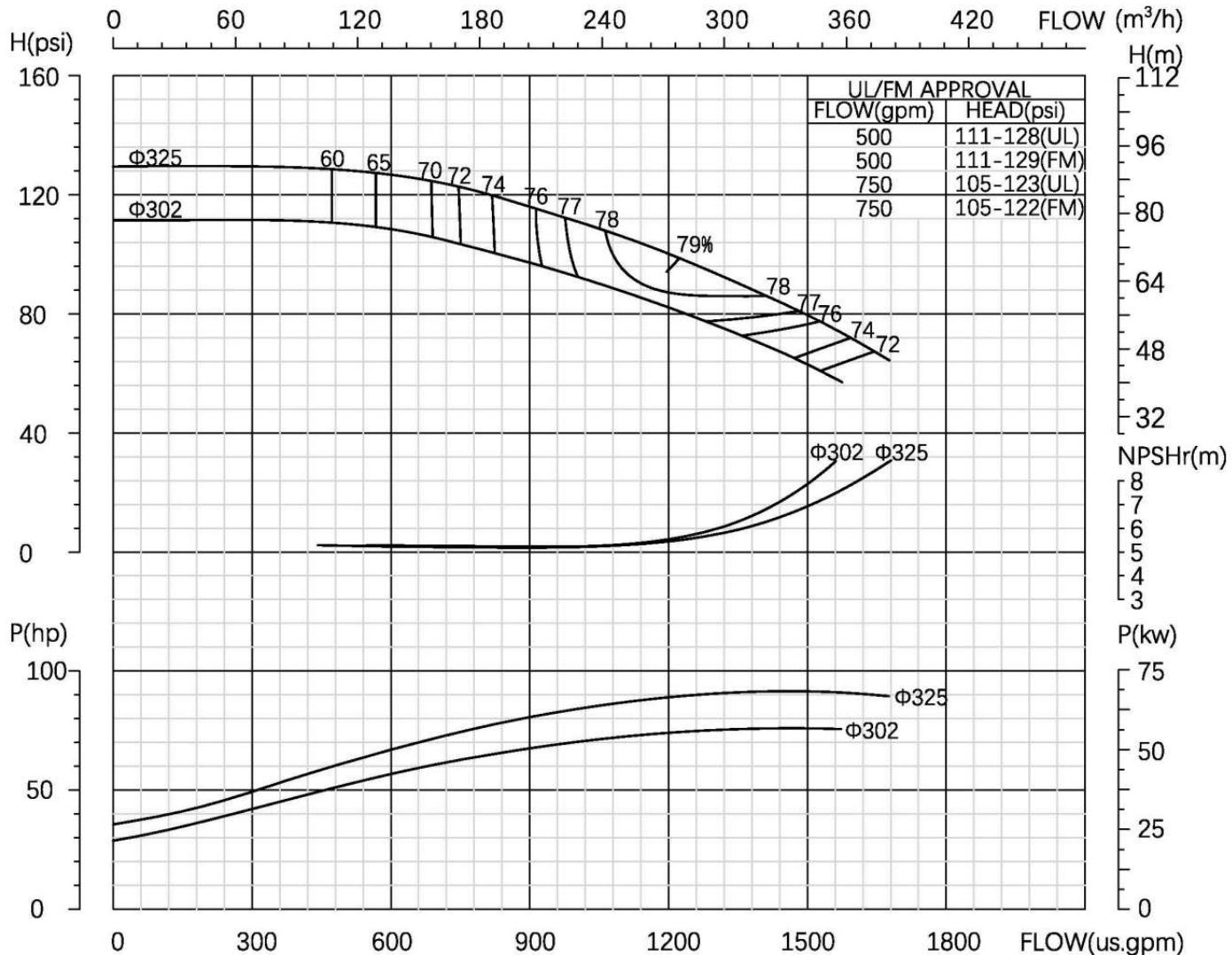
Max brake horse power : 61~92hp

Curve No.: CNPA230008@CNPA150-125-250@2600rpm@500→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA150-125-310



Flange rating(suction/discharge) : class 250, RF

Size : 6x5inch

Stages : 1

Speed,rated : 2350rpm

Max working pressure,allowable : 370psi

Max suction pressure,allowable : 75psi

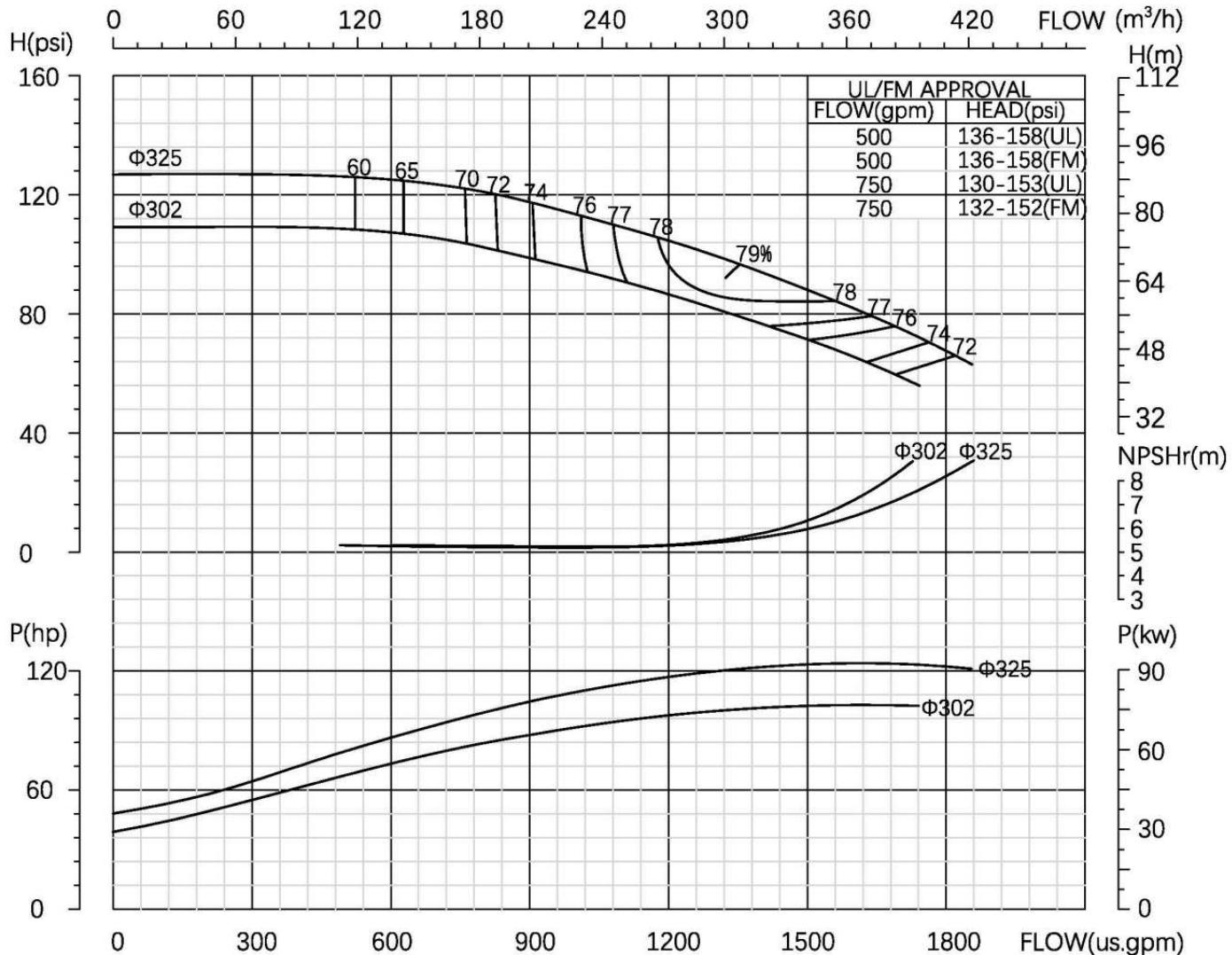
Max brake horse power : 76~91hp

Curve No.: CNPA230009@CNPA150-125-310@2350rpm@500→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA150-125-310



Flange rating(suction/discharge) : class 250, RF

Size : 6x5inch

Stages : 1

Speed,rated : 2600rpm

Max working pressure,allowable : 370psi

Max suction pressure,allowable : 75psi

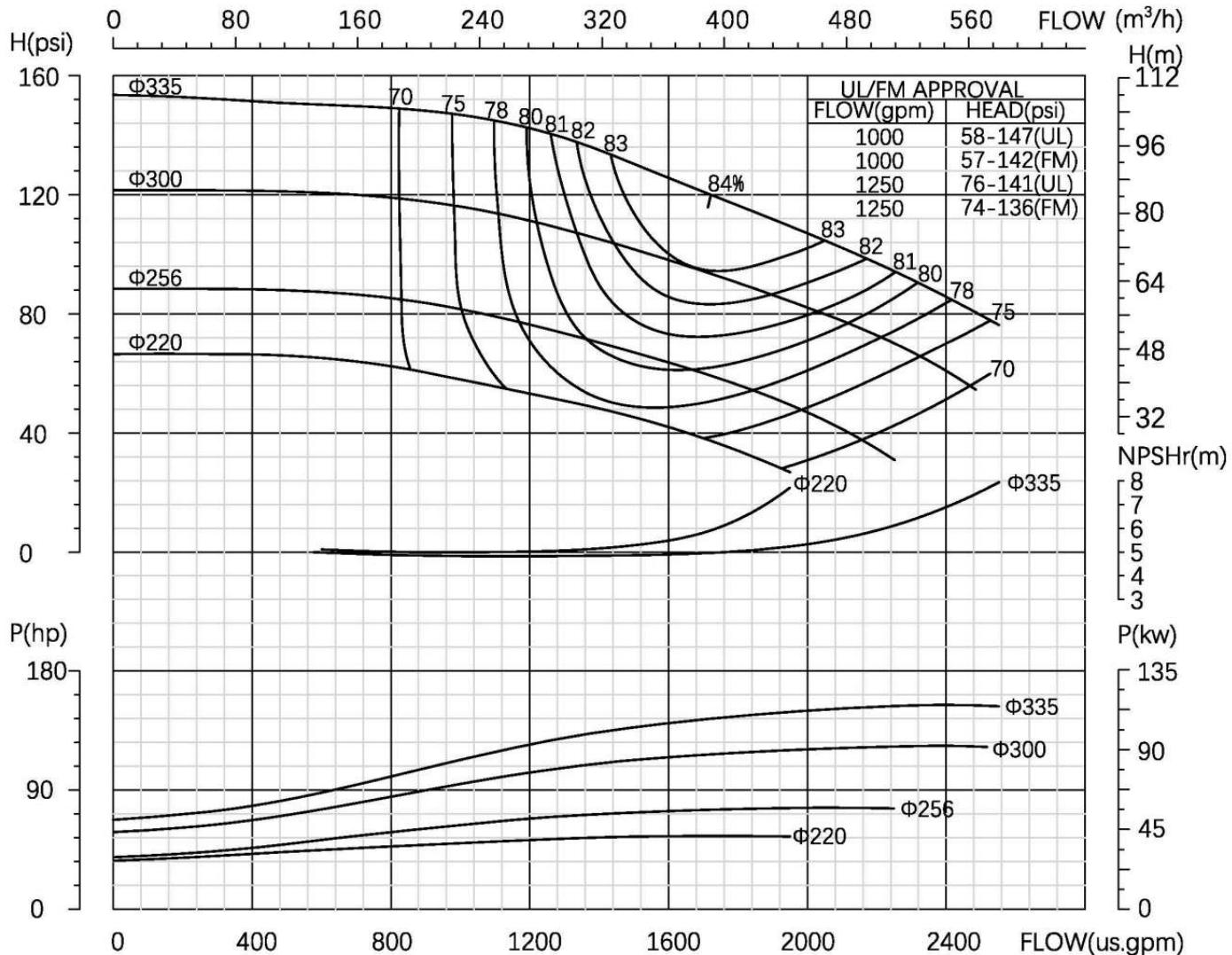
Max brake horse power : 103~124hp

Curve No.: CNPA230010@CNPA150-125-310@2600rpm@500→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-310



Flange rating(suction/discharge) : class 250, RF

Size : 8x6inch

Stages : 1

Speed,rated : 2350rpm

Max working pressure,allowable : 370psi

Max suction pressure,allowable : 75psi

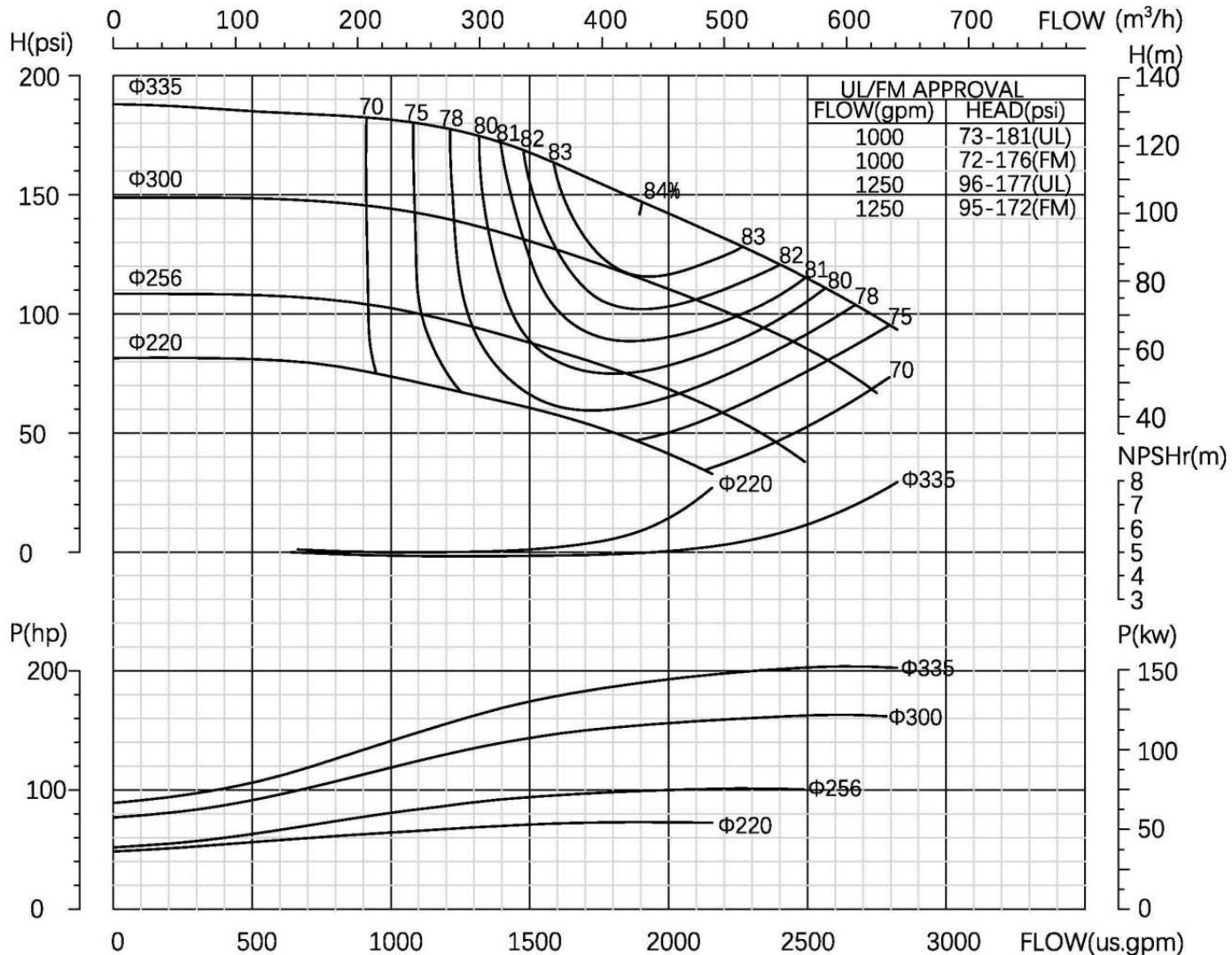
Max brake horse power : 55~154hp

Curve No.: CNPA230011@CNPA200-150-310@2350rpm@1000→1250usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-310



Flange rating(suction/discharge) : class 250, RF

Size : 8x6inch

Stages : 1

Speed,rated : 2600rpm

Max working pressure,allowable : 370psi

Max suction pressure,allowable : 75psi

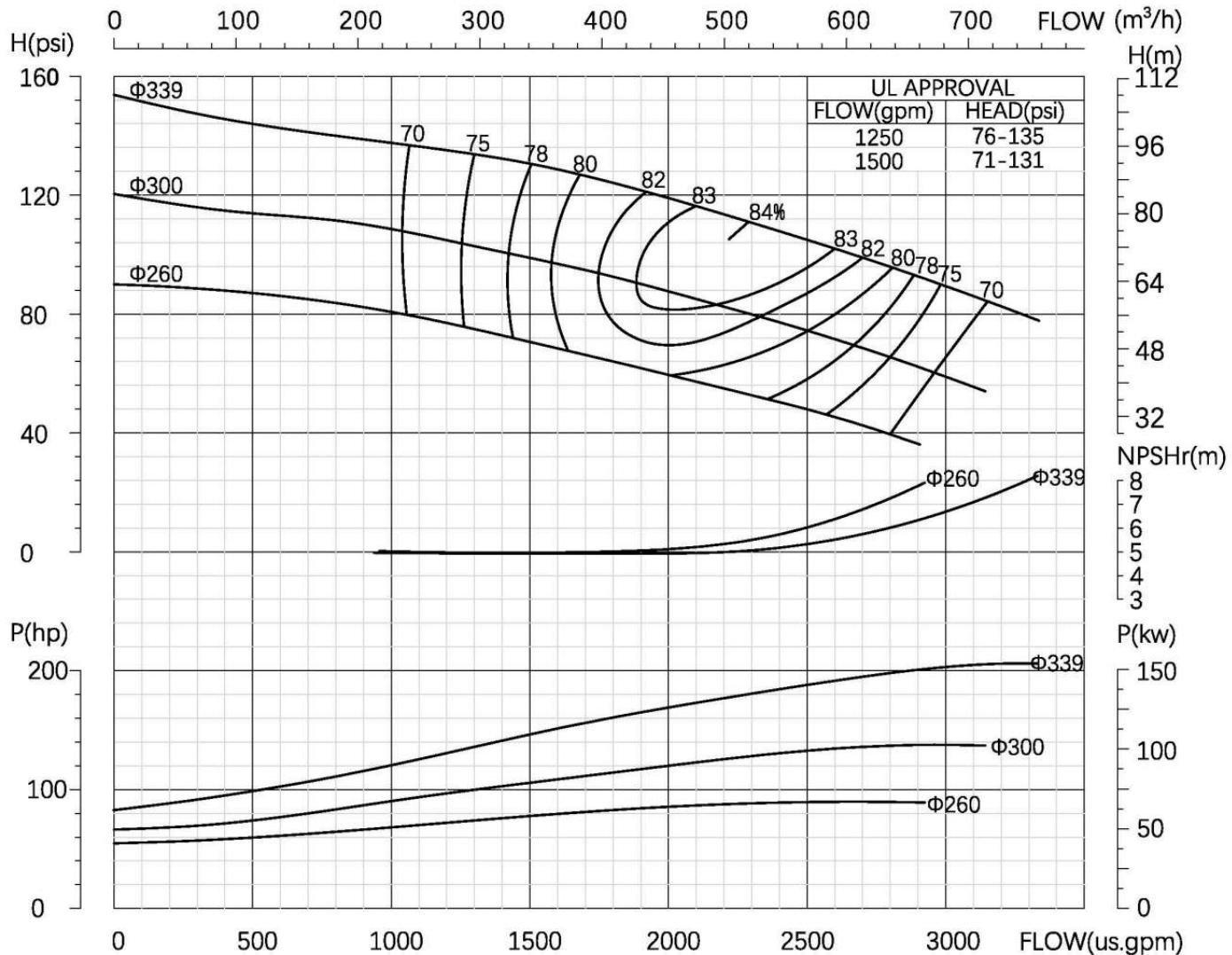
Max brake horse power : 75~209hp

Curve No.: CNPA230012@CNPA200-150-310@2600rpm@1000→1250usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-330

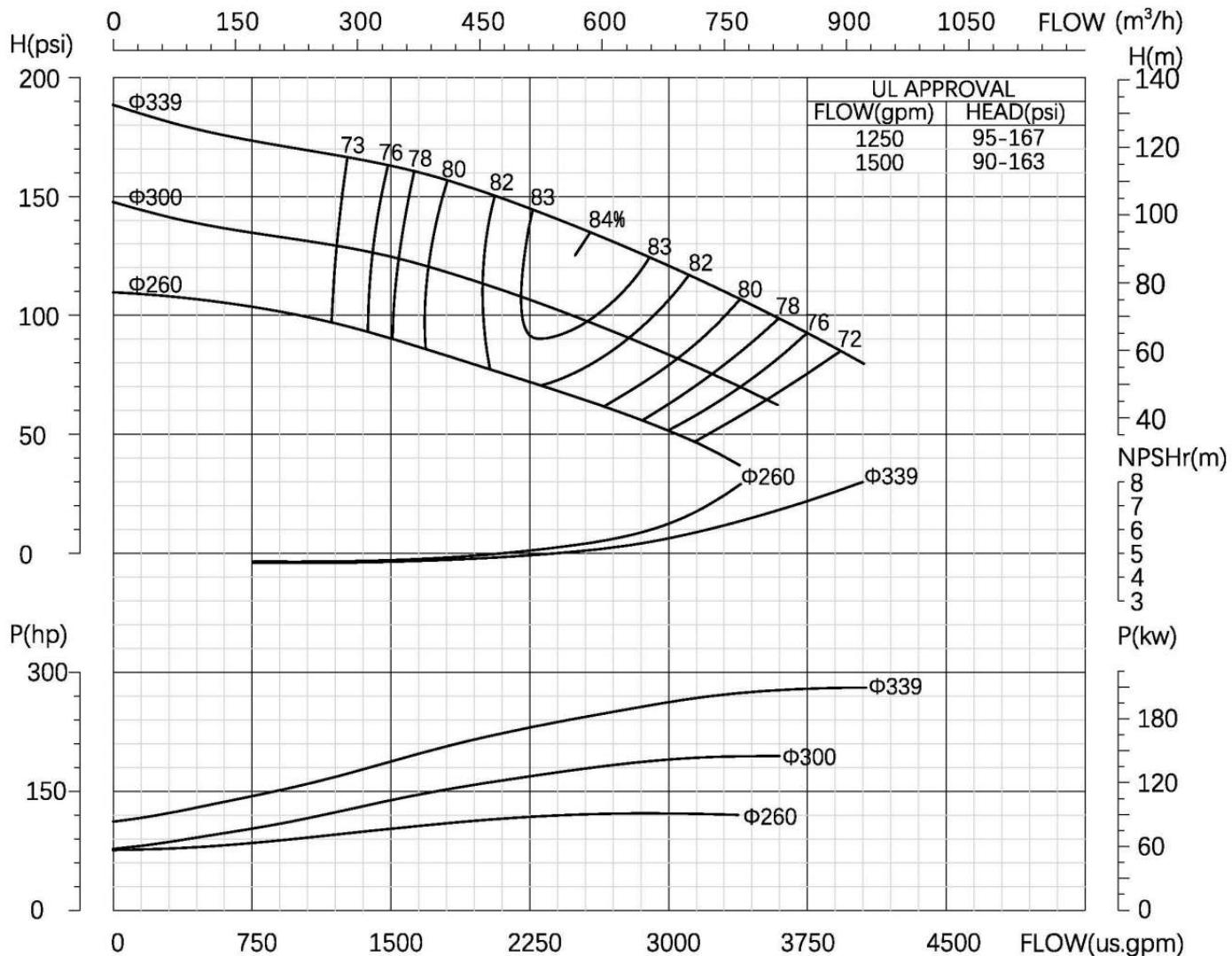


Curve No.: CNPA230013@CNPA200-150-330@2350rpm@1250→1500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-330



Flange rating(suction/discharge) : class 250, RF

Size : 8x6inch

Stages : 1

Speed,rated : 2600rpm

Max working pressure,allowable : 310psi

Max suction pressure,allowable : 75psi

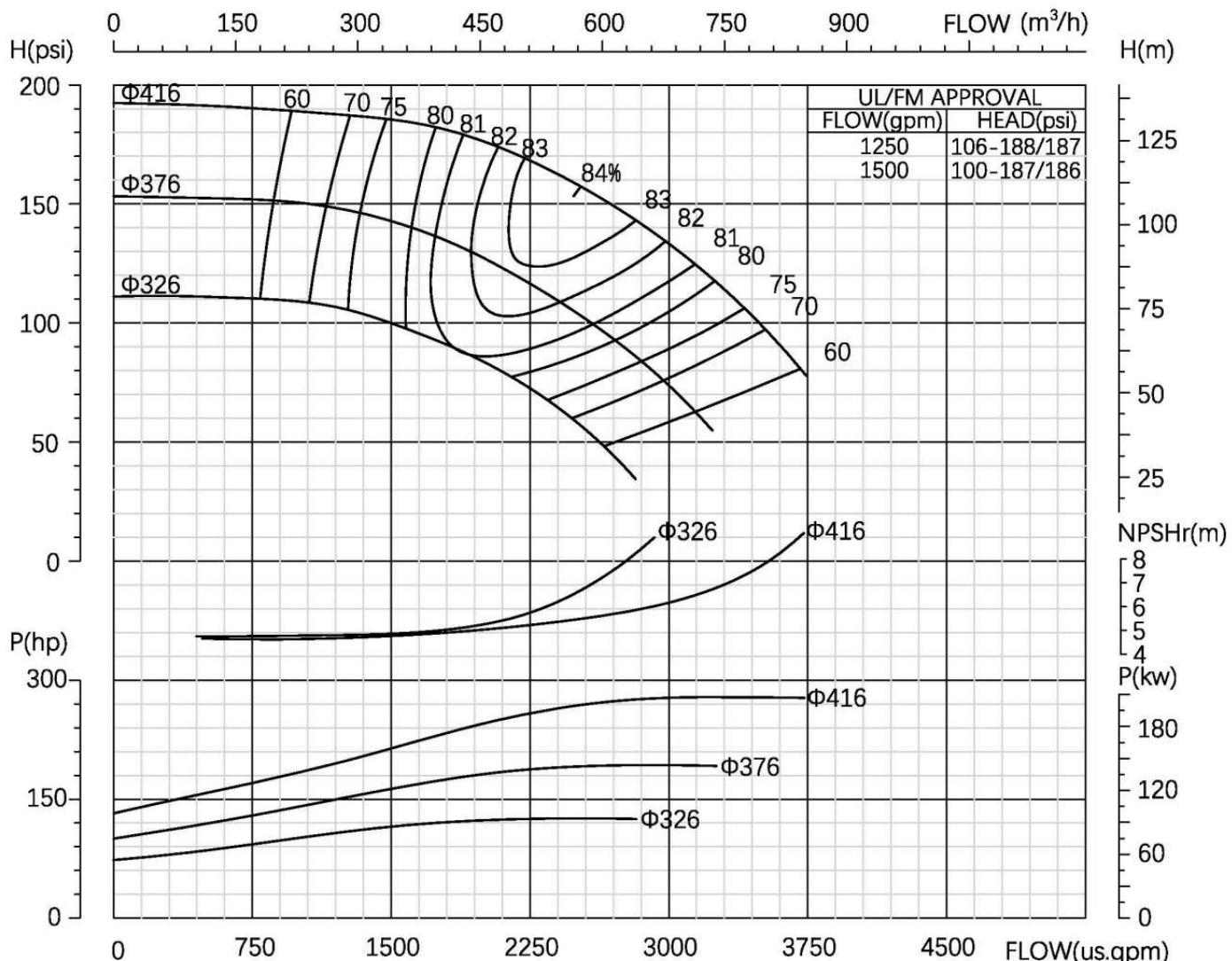
Max brake horse power : 121~280hp

Curve No.: CNPA200014@CNPA200-150-330@2600rpm@1250→1500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-375



Flange rating(suction/discharge) : class 250, RF

Size : 8x6inch

Stages : 1

Speed,rated : 2100rpm

Max working pressure,allowable : 270psi

Max suction pressure,allowable : 75psi

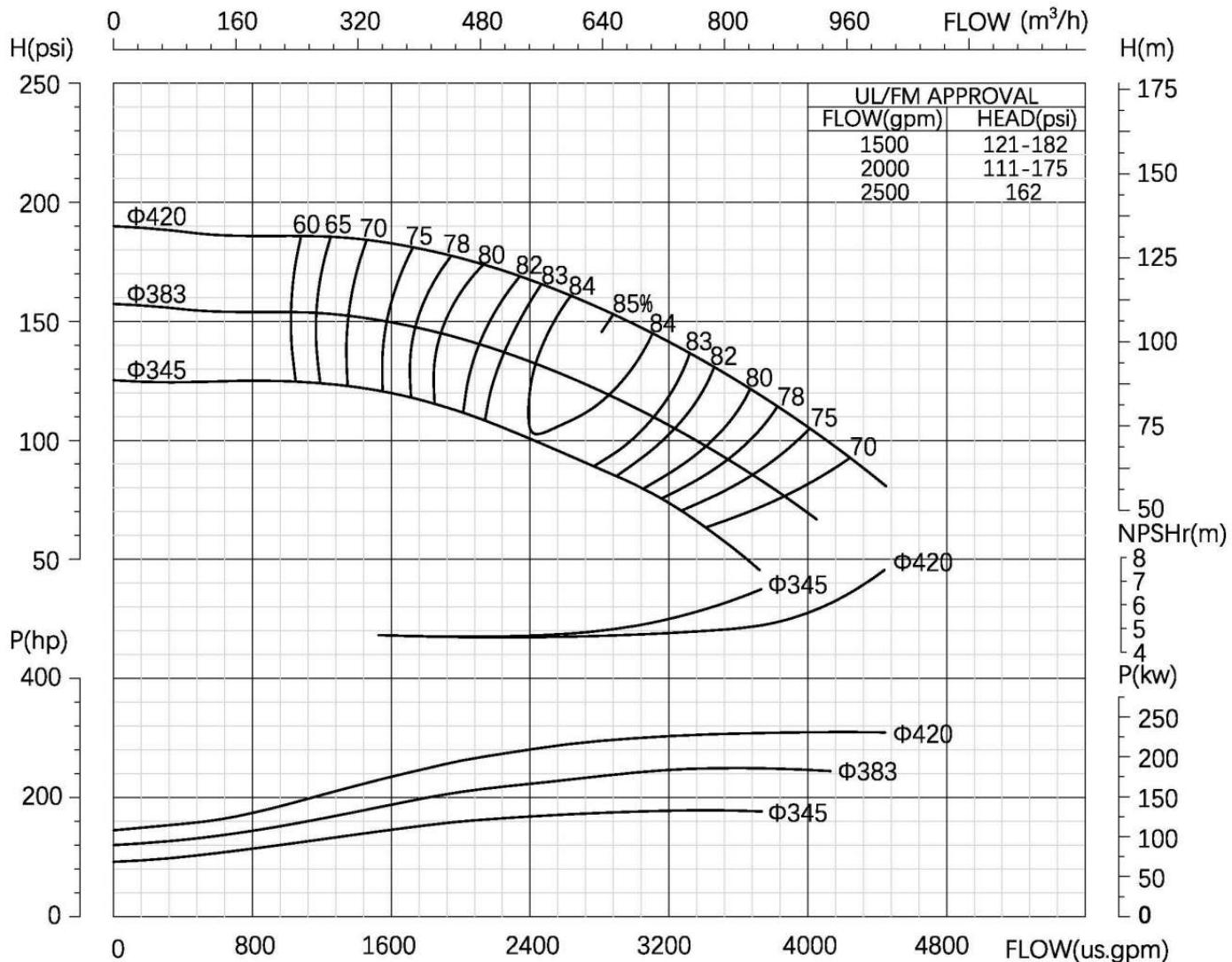
Max brake horse power : 125~276hp

Curve No.: CNPA230015@CNPA200-150-375@2100rpm@1250→1500usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-400



Flange rating(suction/discharge) : class 250, RF

Size : 8x6inch

Stages : 1

Speed,rated : 2100rpm

Max working pressure,allowable : 270psi

Max suction pressure,allowable : 75psi

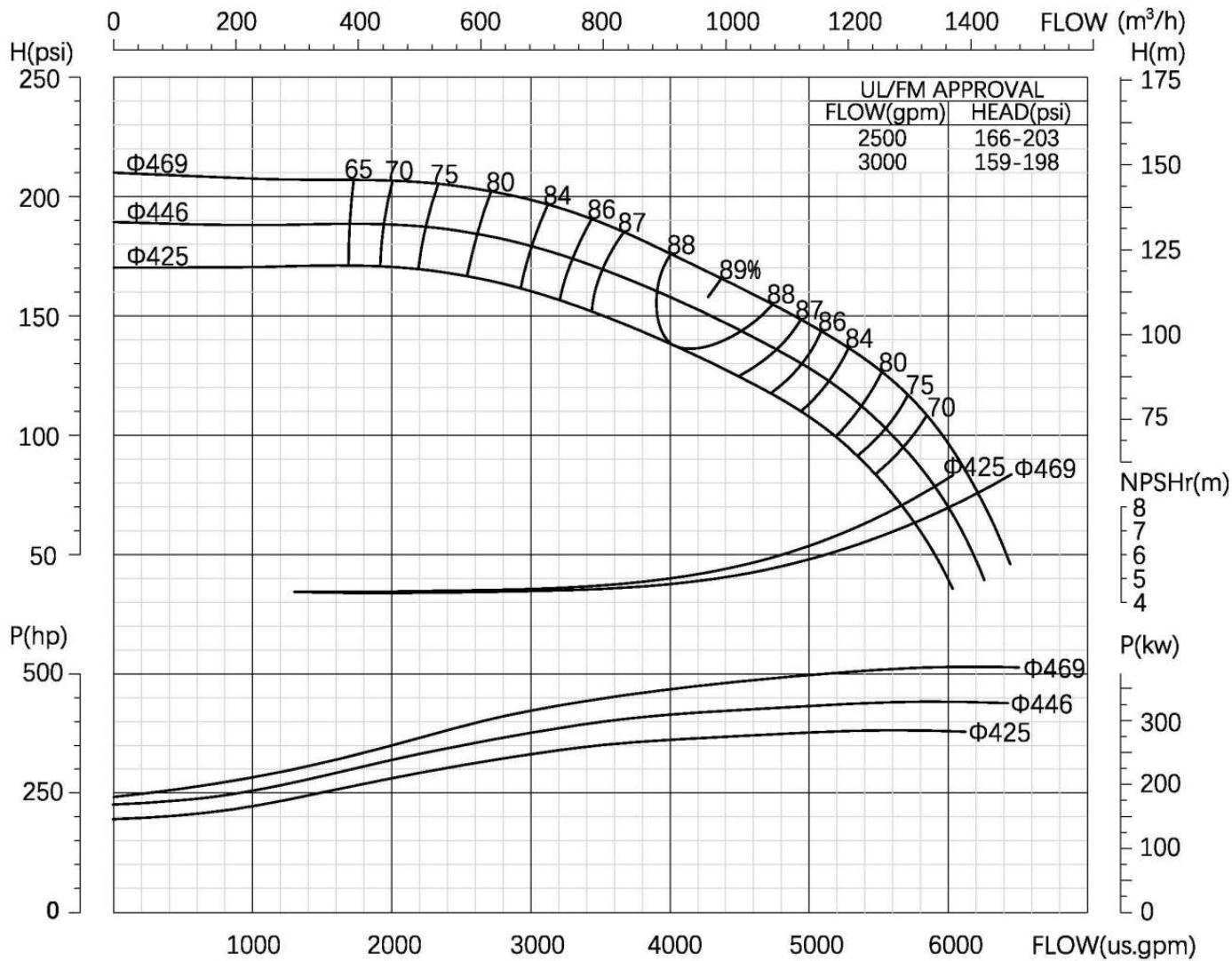
Max brake horse power : 182~310hp

Curve No.: CNPA200016@CNPA200-150-400@2100rpm@1500→2500usgpm



PERFORMANCE CURVES - CNPAx

CNPA250-200-450



Flange rating(suction/discharge) : class 250, RF

Size : 10x8inch

Stages : 1

Speed,rated :2000rpm

Max working pressure,allowable : 290psi

Max suction pressure,allowable : 75psi

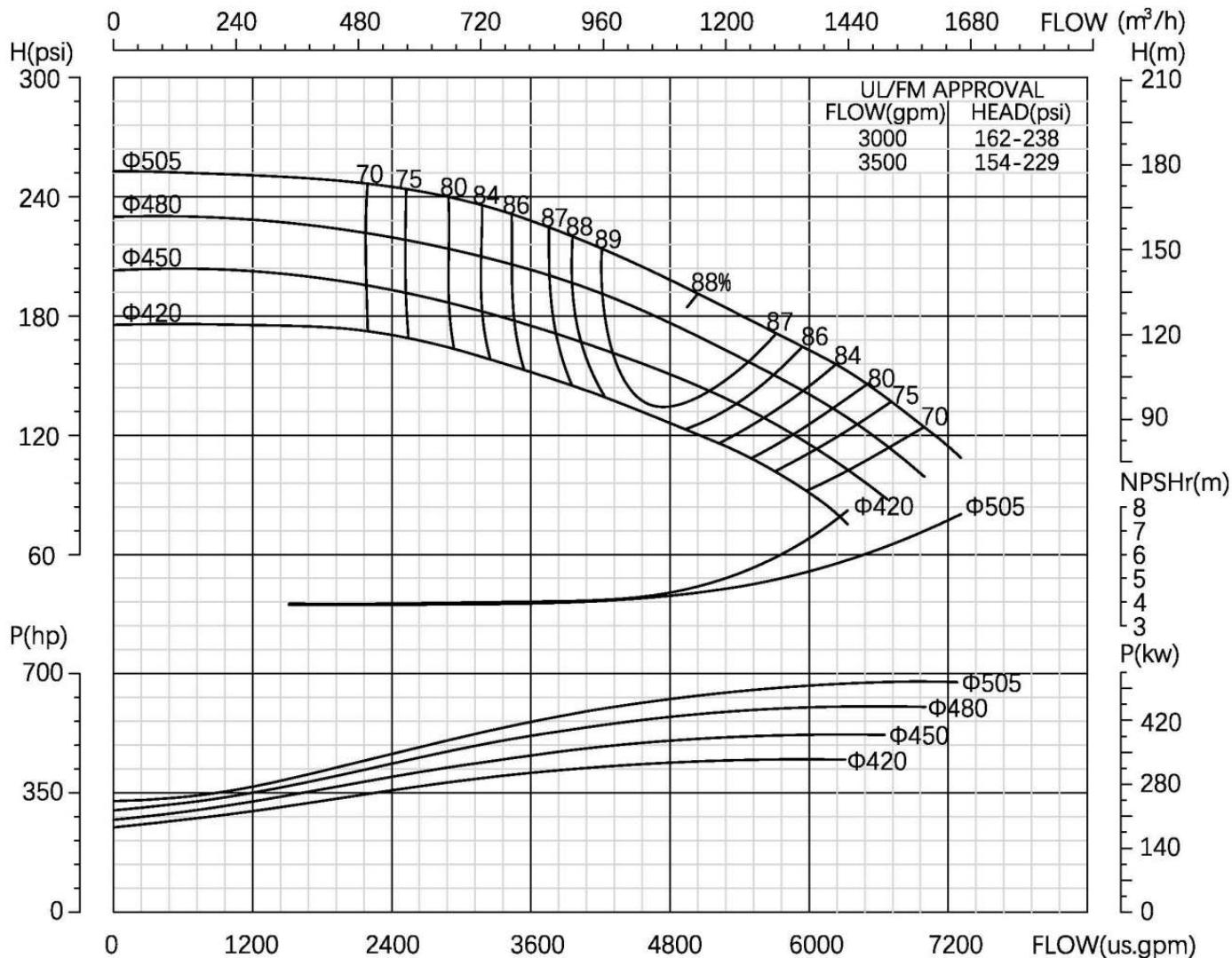
Max brake horse power : 381-508hp

Curve No.: CNPA200017@CNPA250-200-450@2000rpm@2500→3000usgpm



PERFORMANCE CURVES - CNPAx

CNPA250-200-500



Flange rating(suction/discharge) : class 250, RF

Size : 10x8inch

Stages : 1

Speed,rated : 2000rpm

Max working pressure,allowable : 340psi

Max suction pressure,allowable : 75psi

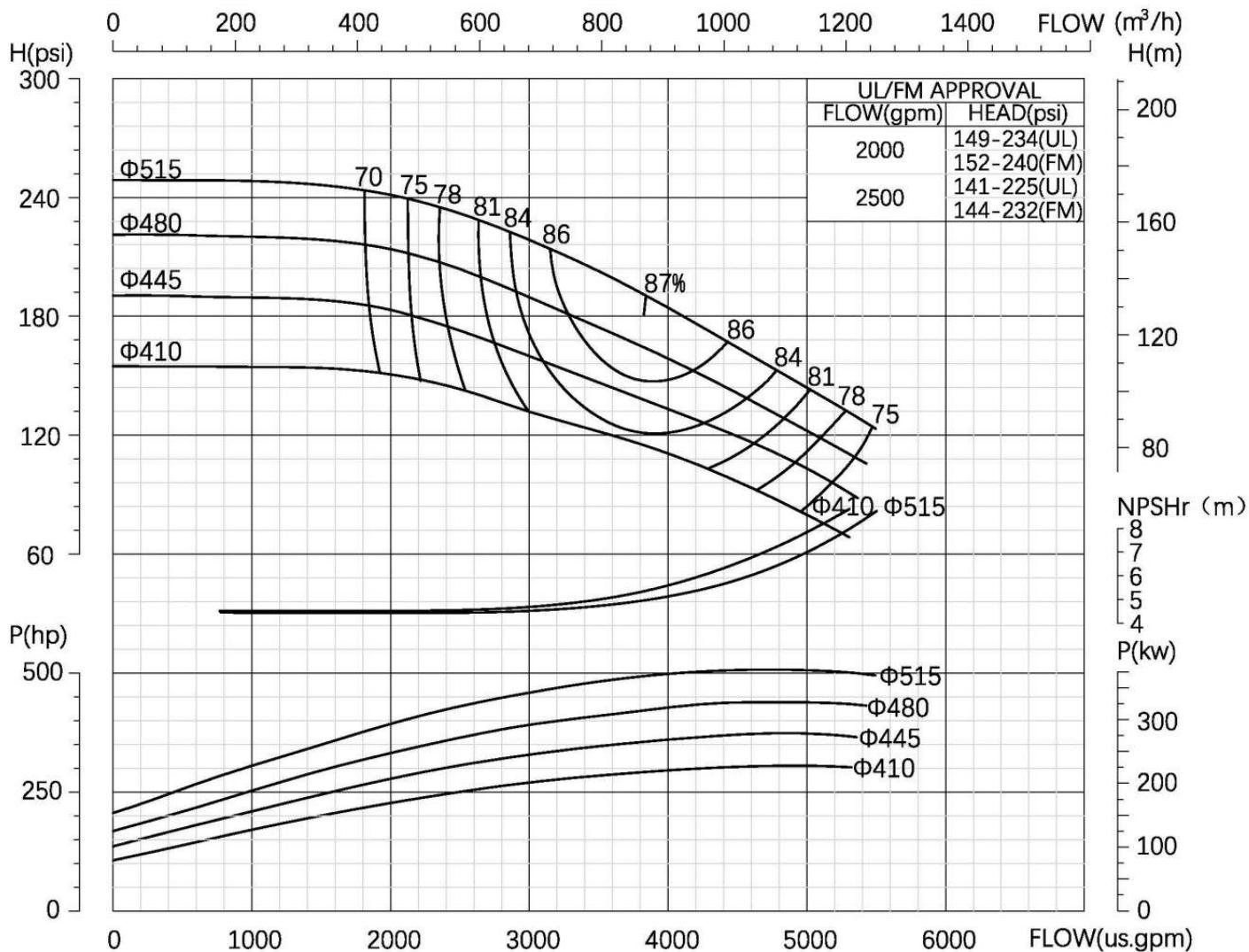
Max brake horse power : 449-677hp

Curve No.: CNPA230018@CNPA250-200-500@2000rpm@3000→3500usgpm



PERFORMANCE CURVES - CNPAx

CNPA250-200-500S



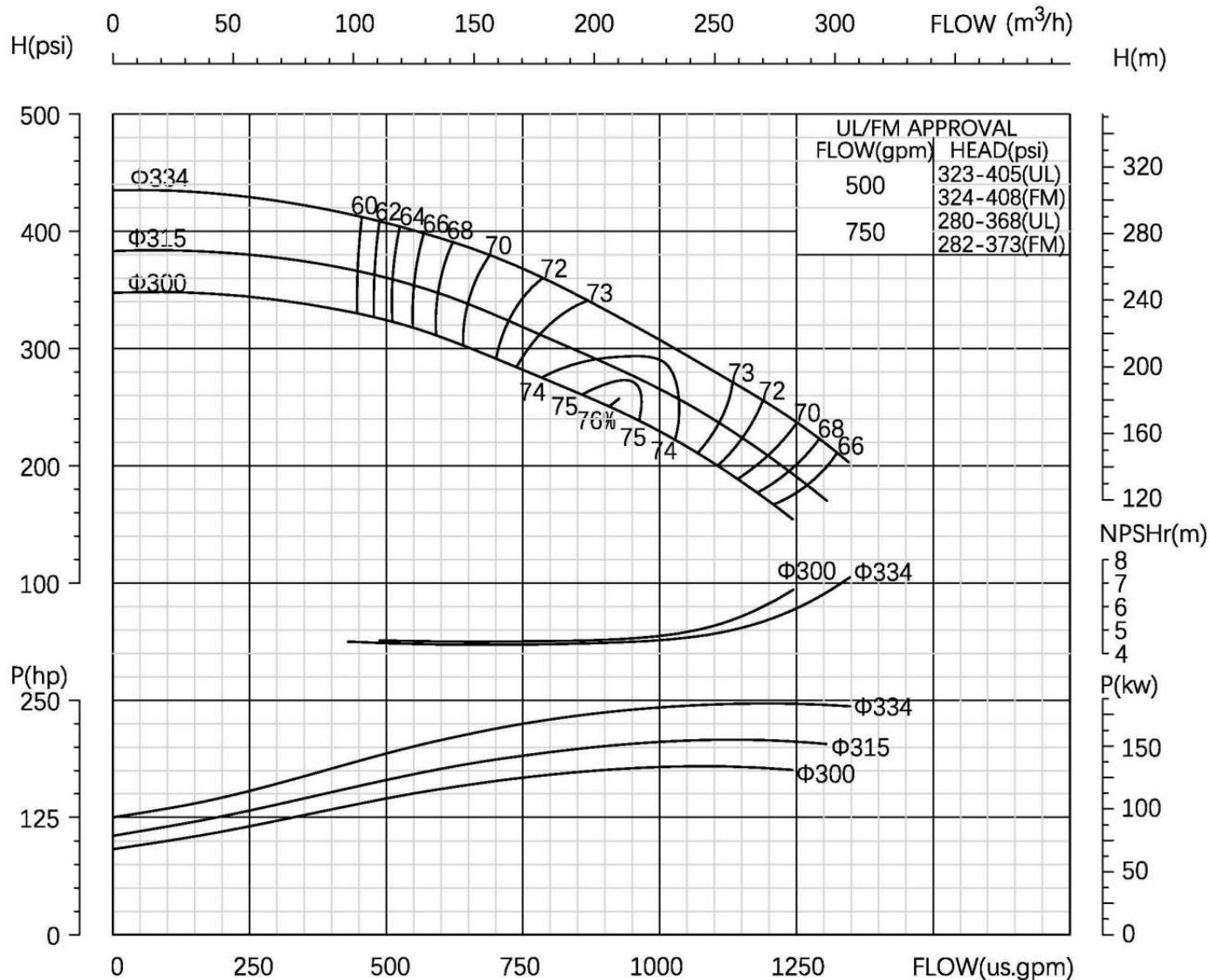
Flange rating(suction/discharge) : class 250, RF
Size : 10x8inch
Stages : 1
Speed,rated : 2000rpm
Max working pressure,allowable : 320psi
Max suction pressure,allowable : 75psi
Max brake horse power : 304-508hp

Curve No.: CNPA200019@CNPA250-200-500S@2000rpm@2000→2500usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-100-330X2



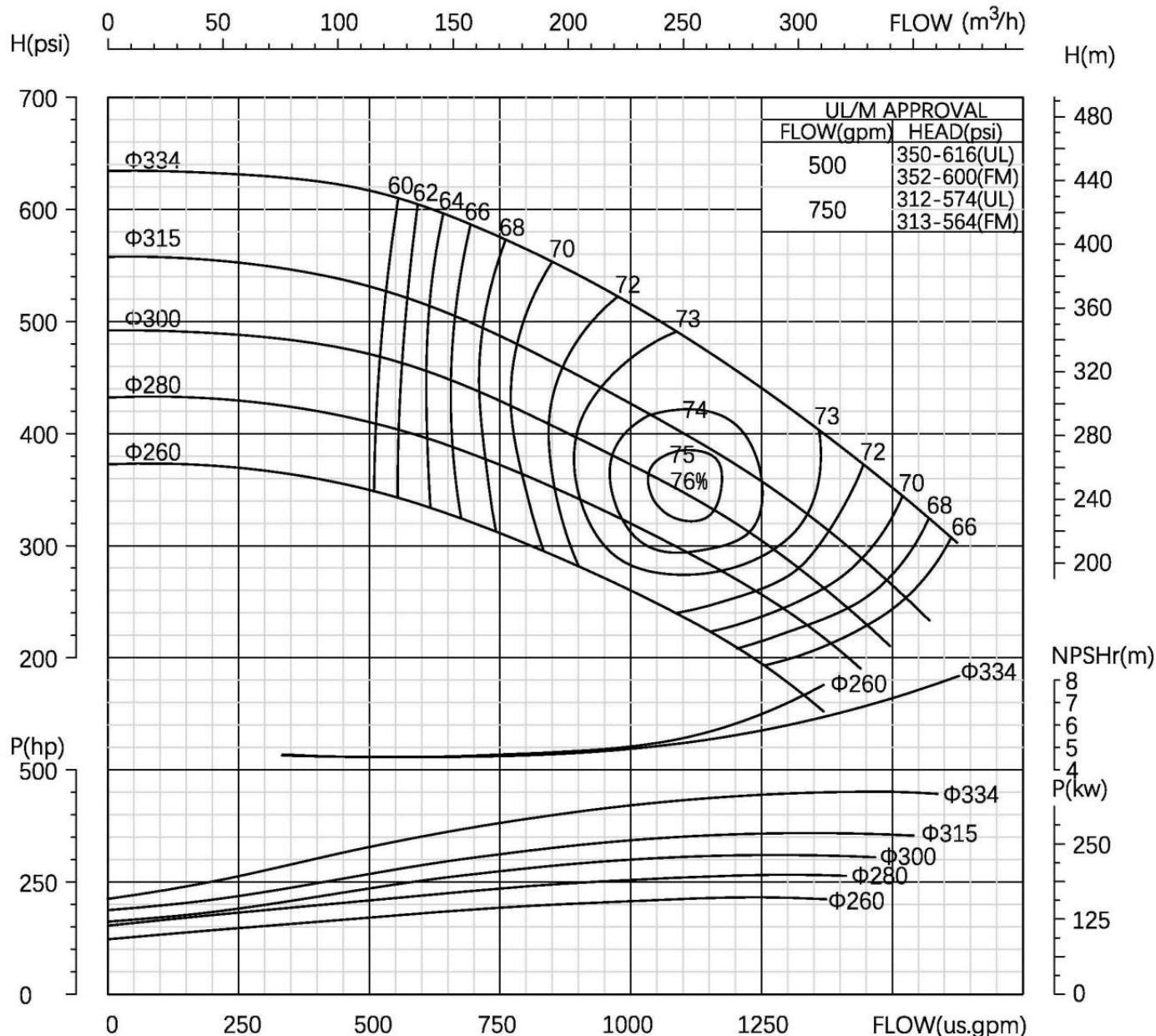
Flange rating(suction/discharge) : class 250, RF
Size : 5x4inch
Stages : 2
Frequency : 50Hz
Speed,rated : 2950rpm
Max working pressure,allowable : 580psi
Max suction pressure,allowable : 75psi
Max brake horse power : 180~245hp

Curve No.: CNPA205006@CNPA125-100-330X2@2950rpm@500→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA125-100-330X2



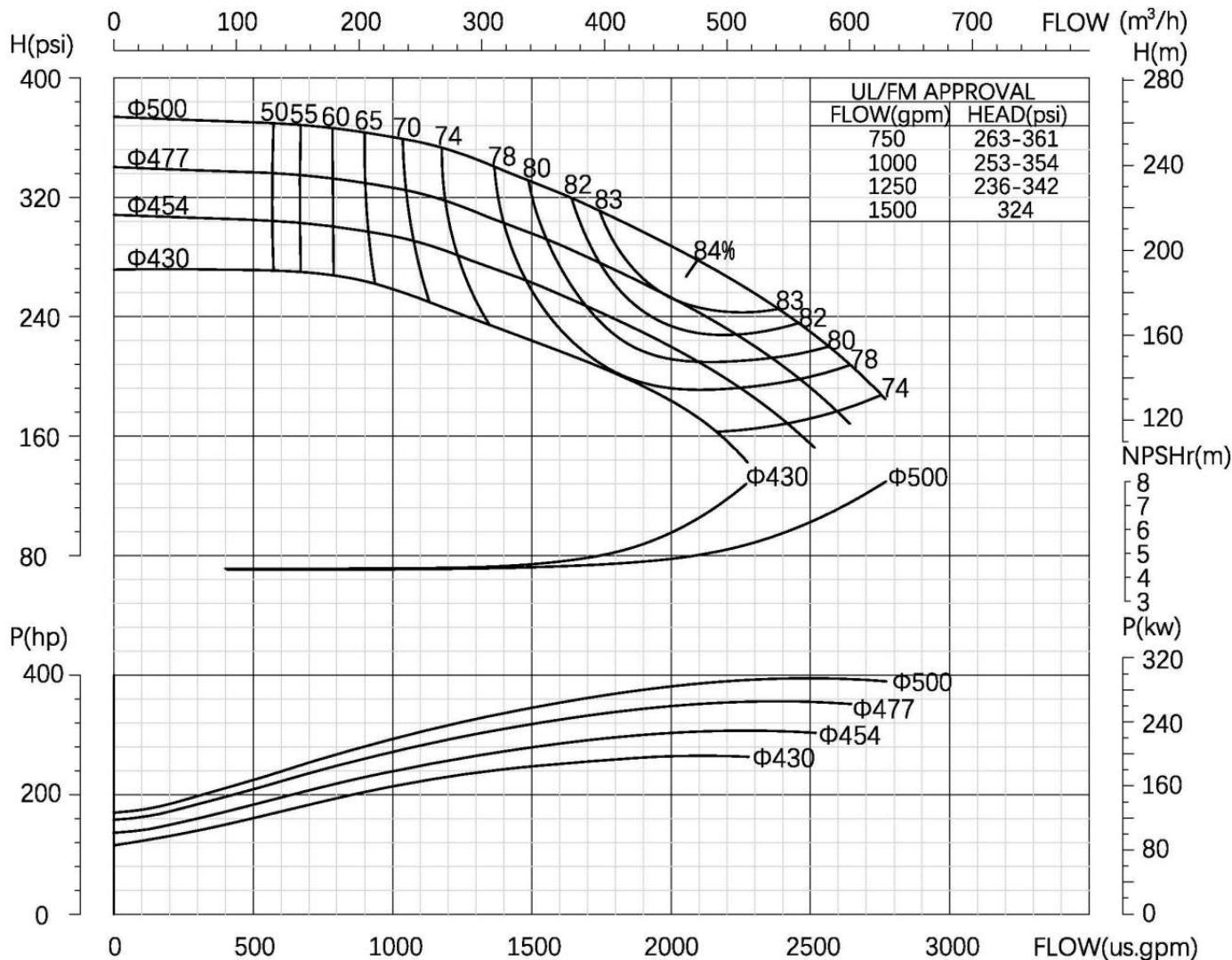
Flange rating(suction/discharge) : class 250, RF
Size : 5x4inch
Stages : 2
Frequency : 60Hz
Speed,rated : 3550rpm
Max working pressure,allowable : 708psi
Max suction pressure,allowable : 75psi
Max brake horse power : 216~450hp

Curve No.: CNPA206005@CNPA125-100-330X2@3550rpm@500→750usgpm



PERFORMANCE CURVES - CNPAx

CNPA200-150-450X2



Flange rating(suction/discharge) : class 250, RF
Size : 8x6inch
Stages : 2

Frequency : 60Hz
Speed, rated : 1800rpm

Max working pressure, allowable : 450psi

Max suction pressure, allowable : 75psi

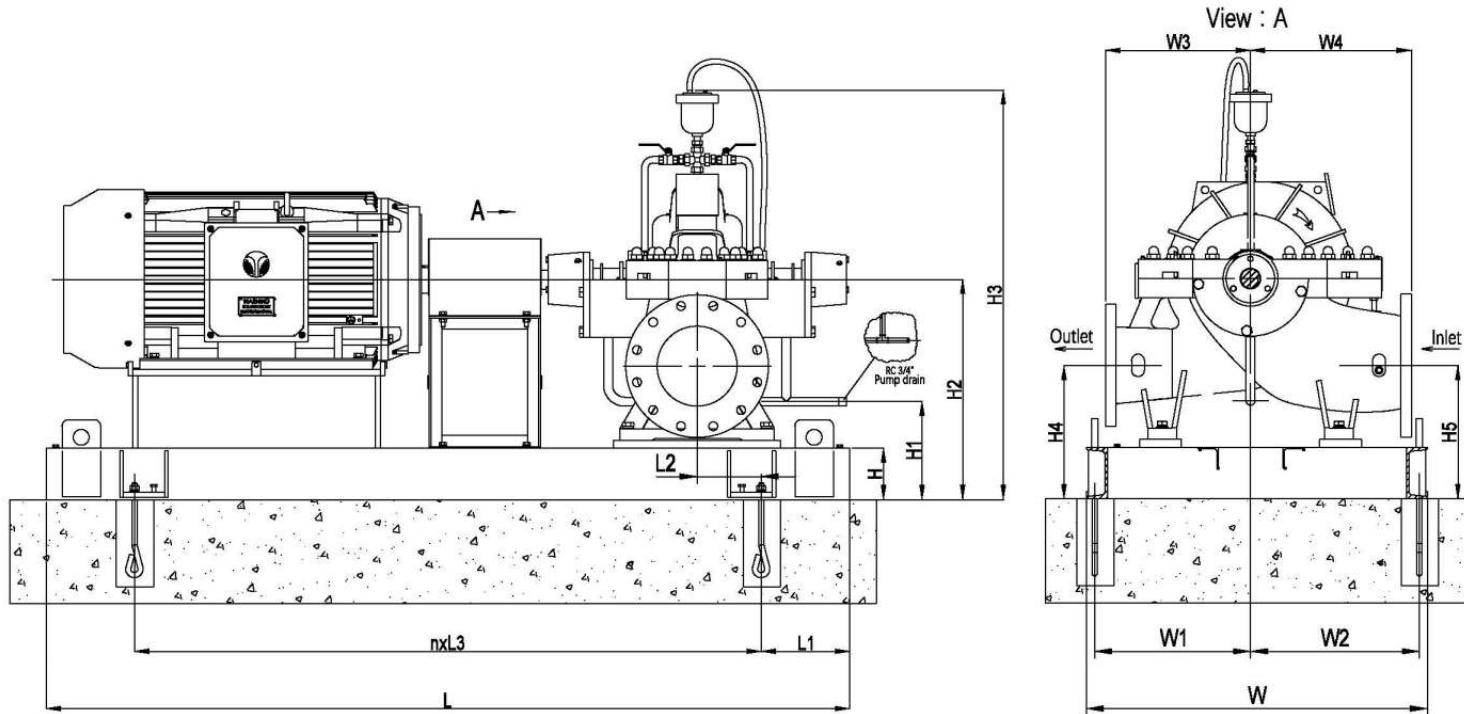
Max brake horse power : 265-395hp

Curve No.: CNPA206013@CNPA200-150-450X2@1800rpm@750→1500usgpm

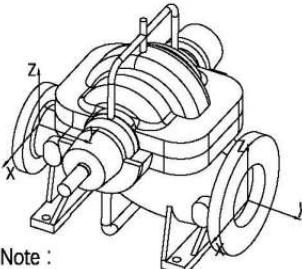
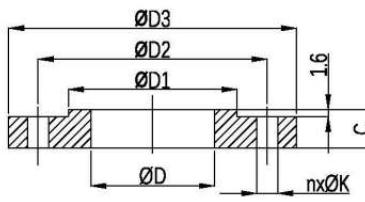


OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA100-80-200



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC286TS40U2B	1300	250	60	1	800	650	325	275	230	270	120	170	410	860	280	280	4-M16x300	4-120x120x300
F-TXC324TS40U2B	1450	275	35	1	900	650	325	275	230	270	120	170	410	860	280	280	4-M16x300	4-120x120x300
F-TDC324TS50U2B	1400	250	60	1	900	700	325	325	230	270	120	170	410	860	280	280	4-M16x300	4-120x120x300
F-TXC326TS50U2B	1450	275	35	1	900	650	325	275	230	270	120	170	410	860	280	280	4-M16x300	4-120x120x300
F-TDC326TS60U2B	1400	250	60	1	900	700	325	325	230	270	120	170	410	860	280	280	4-M16x300	4-120x120x300
F-TXC364TS60U2B	1500	275	35	1	950	750	275	425	230	270	120	170	410	860	280	280	4-M16x300	4-120x120x300
F-TDC365TS75U2B	1400	250	60	1	900	750	275	425	230	270	120	170	410	860	280	280	4-M16x300	4-120x120x300
F-TXC365TS75U2B	1500	275	35	1	950	750	275	425	230	270	120	170	410	860	280	280	4-M16x300	4-120x120x300

The force and torque of the pipe						Flange specification											
 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction														
			Fx	Fy	Fz												
	Inlet (4 INCH)	Pound	320	400	260												
	Outlet (3 INCH)	Pound	240	300	200												
	Inlet (DN 100)	Newton	1420	1780	1160												
	Outlet (DN 80)	Newton	1070	1330	890												
	Pump Flange	Unit	Axial Direction														
			Mx	My	Mz												
	Inlet (4 INCH)	Pound-Feet	980	500	740												
	Outlet (3 INCH)	Pound-Feet	700	350	530	ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C				
	Inlet (DN 150)	Newton-meter	1330	680	1000	Inlet 4 INCH	101.5	176.3	200.1	254.0	8	22.3	31.7				
	Outlet (DN 80)	Newton-meter	950	470	720	Outlet 3 INCH	76.2	144.5	168.1	209.1	8	22.3	28.4				

NOTE : ALL DIMENSIONS AND WEIGHTS ARE PRELIMINARY NOT FOR CONSTRUCTION USE. CERTIFIED AS BUILT DRAWINGS ARE AVAILABLE UPON REQUEST.

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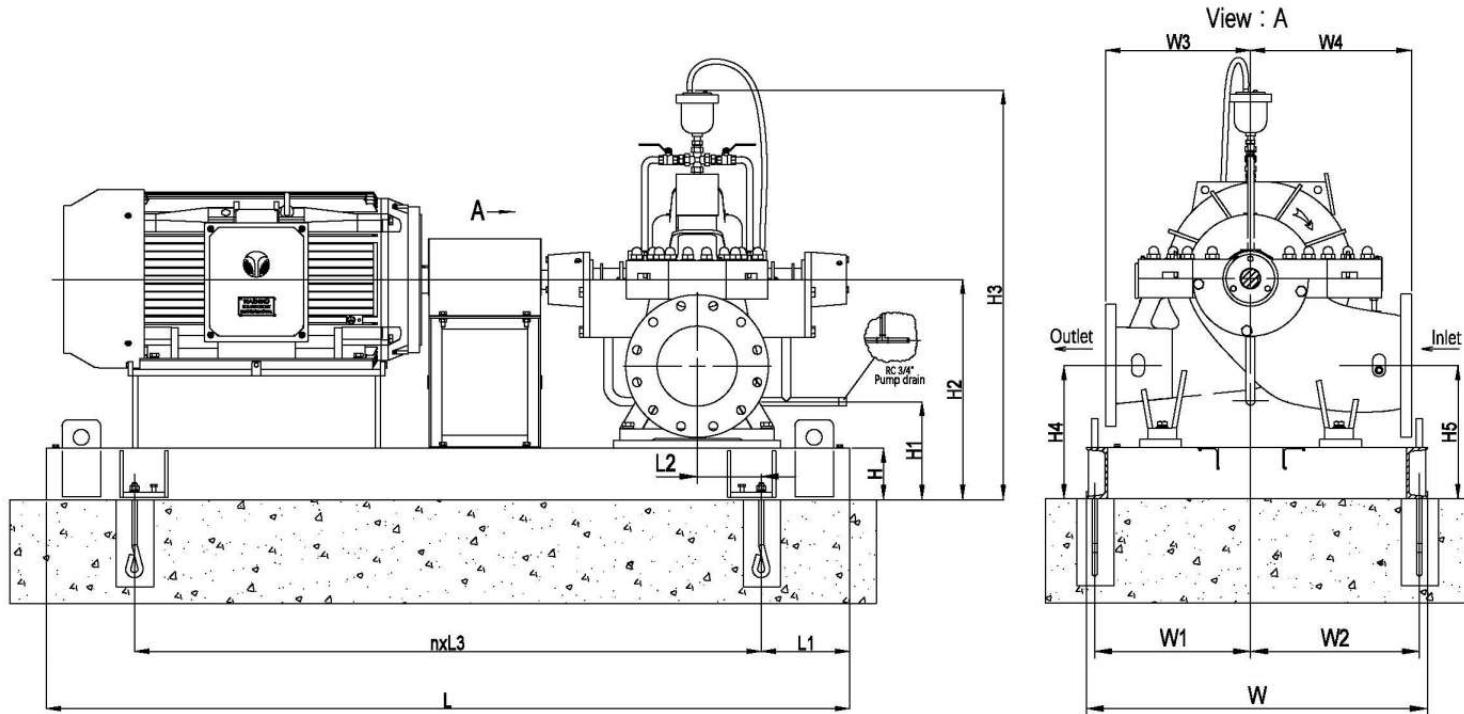
Ahead Beyond



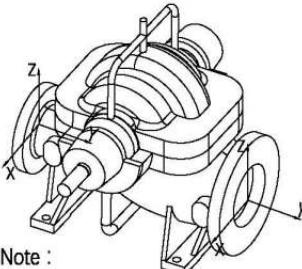
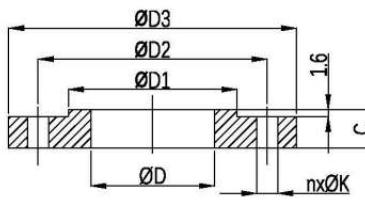
OUTLINE DIMENSIONS - SINGLE STAGE

ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA100-80-250



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC286TS40U2B	1300	250	60	1	800	650	325	275	250	280	120	210	450	920	280	280	4-M16x300	4-120x120x300
F-TXC324TS40U2B	1450	275	35	1	900	650	325	275	250	280	120	210	450	920	280	280	4-M16x300	4-120x120x300
F-TDC324TS50U2B	1400	250	60	1	900	700	325	325	250	280	120	210	450	920	280	280	4-M16x300	4-120x120x300
F-TXC326TS50U2B	1450	275	35	1	900	650	325	275	250	280	120	210	450	920	280	280	4-M16x300	4-120x120x300
F-TDC326TS60U2B	1400	250	60	1	900	700	325	325	250	280	120	210	450	920	280	280	4-M16x300	4-120x120x300
F-TXC364TS60U2B	1500	275	35	1	950	750	275	425	250	280	120	210	450	920	280	280	4-M16x300	4-120x120x300
F-TDC365TS75U2B	1400	250	60	1	900	750	275	425	250	280	120	210	450	920	280	280	4-M16x300	4-120x120x300
F-TXC365TS75U2B	1500	275	35	1	950	750	275	425	250	280	120	210	450	920	280	280	4-M16x300	4-120x120x300
F-TDC365TS100U2B	1400	250	60	1	900	750	275	425	250	280	120	210	450	920	280	280	4-M16x300	4-120x120x300
F-TXC405TS100U2B	1600	150	160	2	650	800	275	475	250	280	120	210	450	920	280	280	6-M16x300	6-120x120x300

The force and torque of the pipe						Flange specification											
 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction														
			Fx	Fy	Fz												
Inlet (4 INCH)	Pound	320	400	260													
Outlet (3 INCH)	Pound	240	300	200													
Inlet (DN 100)	Newton	1420	1780	1160													
Outlet (DN 80)	Newton	1070	1330	890													
Pump Flange	Unit	Axial Direction															
		Mx	My	Mz													
Inlet (4 INCH)	Pound-Feet	980	500	740													
Outlet (3 INCH)	Pound-Feet	700	350	530	ANSI B16.1 250 lb RF												
Inlet (DN 150)	Newton-meter	1330	680	1000	Inlet 4 INCH	ØD	ØD1	ØD2	ØD3	n	ØK	C					
Outlet (DN 80)	Newton-meter	950	470	720	Outlet 3 INCH	76.2	144.5	168.1	209.1	8	22.3	31.7					

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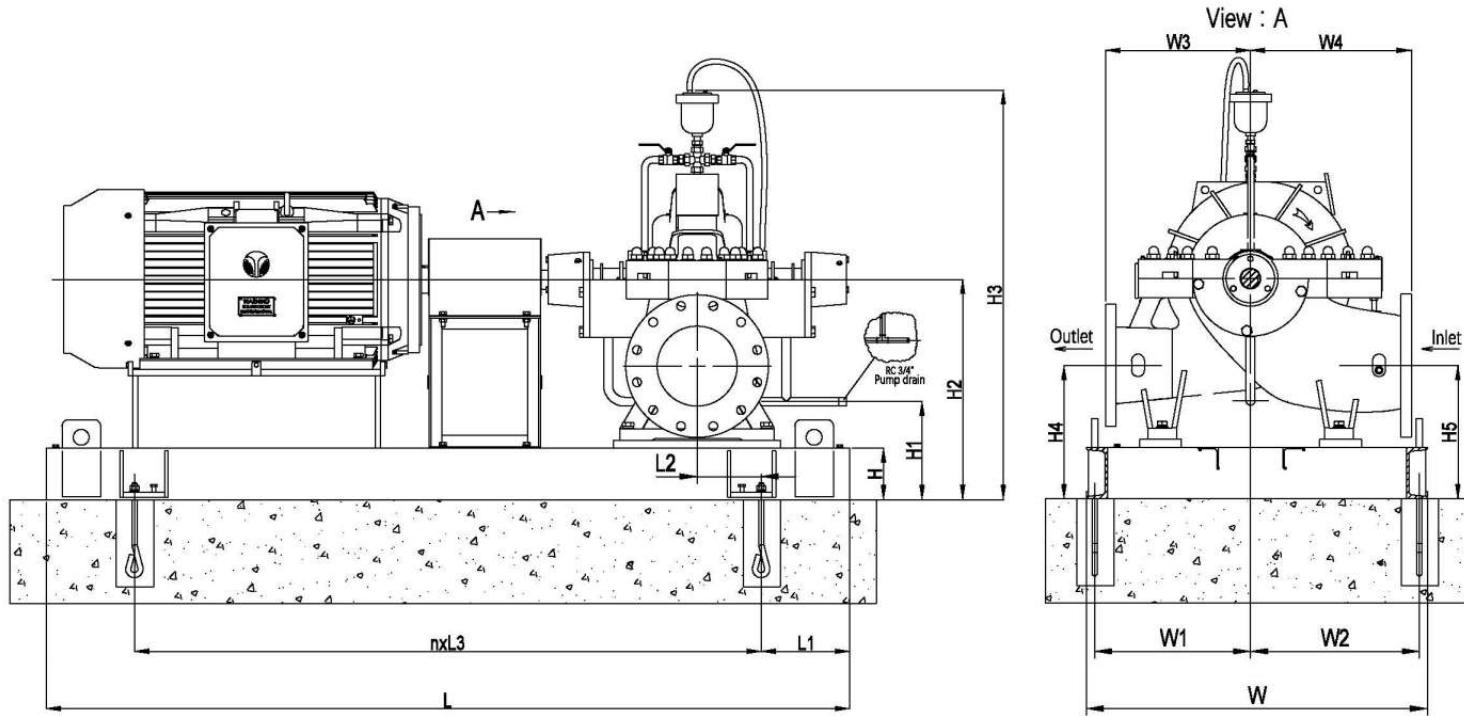
Ahead Beyond



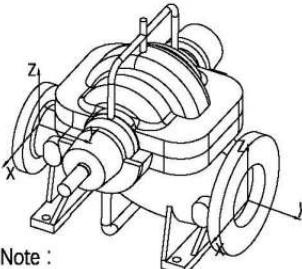
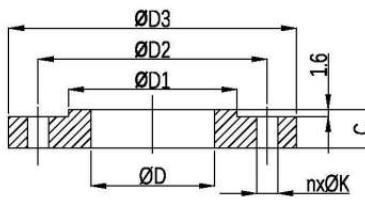
OUTLINE DIMENSIONS - SINGLE STAGE

ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA125-80-200



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC286TS30U2B	1300	250	70	1	800	700	325	325	250	270	120	215	455	879	330	305	4-M16x300	4-120x120x300
F-TXC286TS30U2B	1400	250	70	1	900	700	325	325	250	270	120	215	455	879	330	305	4-M16x300	4-120x120x300
F-TDC286TS40U2B	1300	250	70	1	800	700	325	325	250	270	120	215	455	879	330	305	4-M16x300	4-120x120x300
F-TXC324TS40U2B	1450	275	45	1	900	700	325	325	250	270	120	215	455	879	330	305	4-M16x300	4-120x120x300
F-TDC324TS50U2B	1400	250	70	1	900	700	275	375	250	270	120	215	455	879	330	305	4-M16x300	4-120x120x300
F-TXC326TS50U2B	1500	300	20	1	900	700	325	325	250	270	120	215	455	879	330	305	4-M16x300	4-120x120x300
F-TDC326TS60U2B	1400	250	70	1	900	700	275	375	250	270	120	215	455	879	330	305	4-M16x300	4-120x120x300
F-TXC364TS60U2B	1500	300	20	1	900	700	275	375	250	270	120	215	455	879	330	305	4-M16x300	4-120x120x300
F-TDC365TS75U2B	1400	250	70	1	900	750	325	375	250	270	120	215	455	879	330	305	4-M16x300	4-120x120x300
F-TXC365TS75U2B	1500	300	20	1	900	700	275	375	250	270	120	215	455	879	330	305	4-M16x300	4-120x120x300

The force and torque of the pipe						Flange specification											
 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction														
			Fx	Fy	Fz												
	Inlet (5 INCH)	Pound	560	700	460												
	Outlet (3 INCH)	Pound	240	300	200												
	Inlet (DN 125)	Newton	2490	3110	2050												
	Outlet (DN 80)	Newton	1070	1330	890												
	Pump Flange	Unit	Axial Direction														
			Mx	My	Mz												
	Inlet (5 INCH)	Pound-Feet	1700	870	1300	ANSI B16.1 250 lb RF		ØD	ØD1	ØD2	ØD3	n	ØK	C			
			700	350	530	Inlet 5 INCH		128.3	211.0	234.9	279.4	8	22.3	35.0			
			2300	1180	1760	Outlet 3 INCH		76.2	144.5	168.1	209.1	8	22.3	28.4			
			950	470	720	Outlet 5 INCH											

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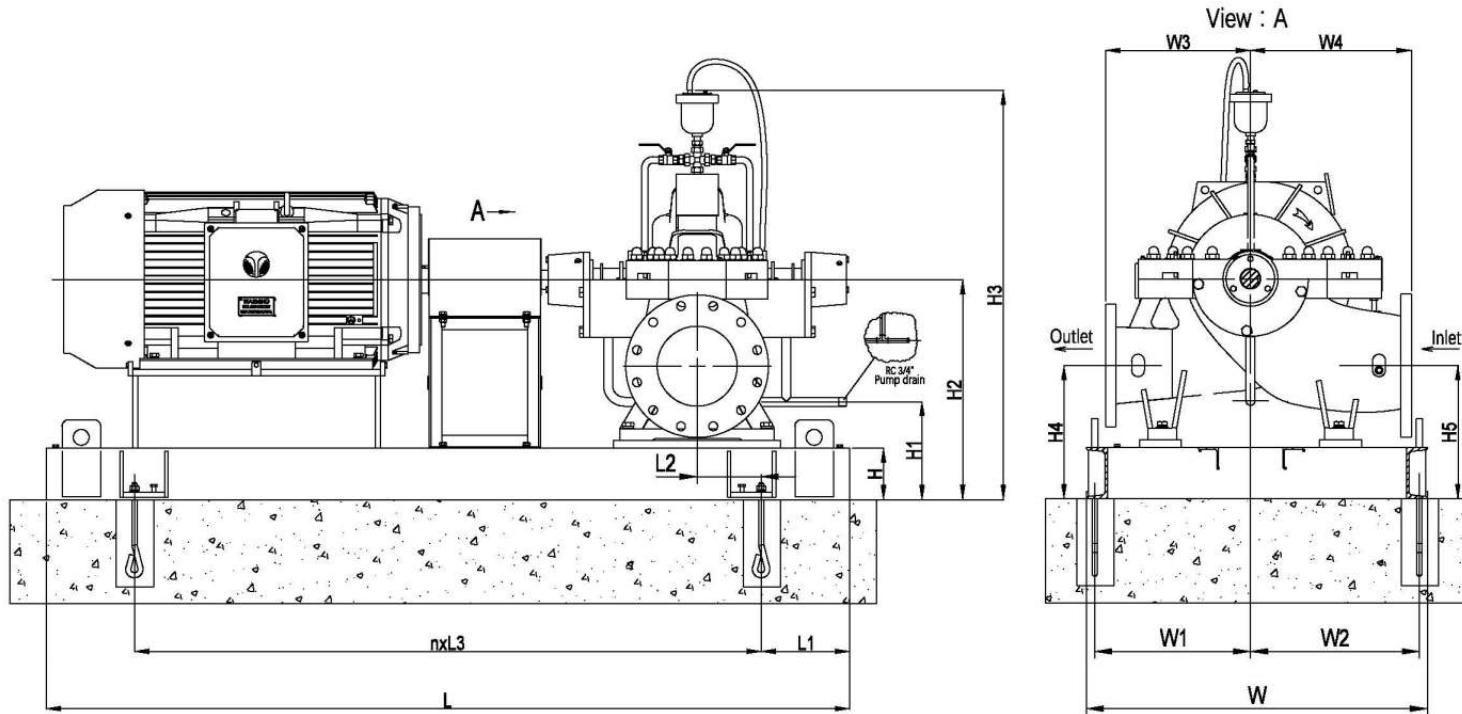
Ahead Beyond



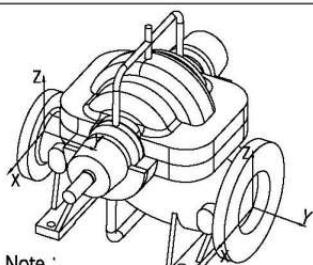
OUTLINE DIMENSIONS - SINGLE STAGE

ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA125-80-250



The force and torque of the pipe



Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

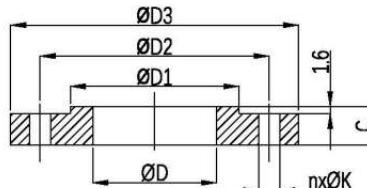
Pump Flange Unit Axial Direction

		Fx	Fy	Fz
Inlet (5 INCH)	Pound	560	700	460
Outlet (3 INCH)	Pound	240	300	200
Inlet (DN 125)	Newton	2490	3110	2050
Outlet (DN 80)	Newton	1070	1330	890

Pump Flange Unit Axial Direction

	Mx	My	Mz	
Inlet (5 INCH)	Pound-Feet	1700	870	1300
Outlet (3 INCH)	Pound-Feet	700	350	530
Inlet (DN 125)	Newton-meter	2300	1180	1760
Outlet (DN 80)	Newton-meter	950	470	720

Flange specification



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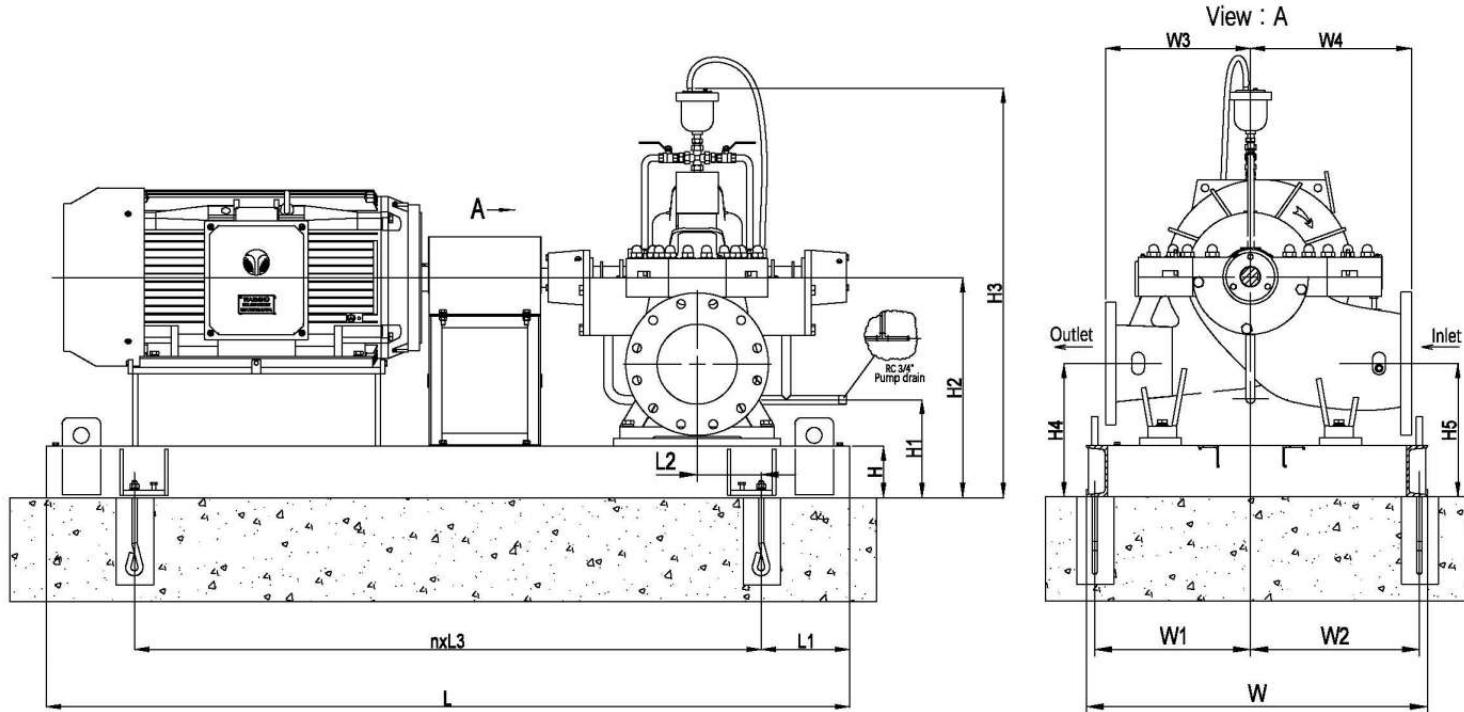
Ahead Beyond



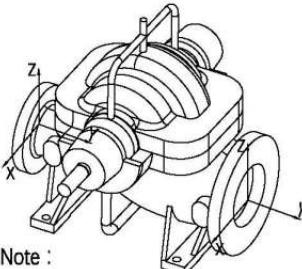
OUTLINE DIMENSIONS - SINGLE STAGE

ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA125-80-350



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC365TS100U2B	1600	150	220	2	650	800	365	385	330	360	120	220	470	995	290	290	6-M16x300	6-120x120x300
F-TXC405TS100U2B	1800	150	220	2	750	850	365	435	330	360	120	220	470	995	290	290	6-M16x300	6-120x120x300
F-TDC404TS125U2B	1700	150	220	2	700	800	340	410	330	360	120	220	470	995	290	290	6-M16x300	6-120x120x300
F-TXC444TS125U2B	1850	175	195	2	750	850	340	460	330	360	140	240	490	1015	310	310	6-M16x300	6-120x120x300
F-TDC405TS150U2B	1700	150	220	2	700	800	340	410	330	360	140	240	490	1015	310	310	6-M16x300	6-120x120x300
F-TXC445TS150U2B	1850	175	195	2	750	850	340	460	330	360	140	240	490	1015	310	310	6-M16x300	6-120x120x300
F-TDC444TS200U2B	1850	175	195	2	750	850	360	440	330	360	140	240	490	1015	310	310	6-M16x300	6-120x120x300
F-TXC447TS200U2B	2150	160	210	3	610	900	360	490	330	360	140	240	490	1015	310	310	8-M16x300	8-120x120x300
F-TDC449TS250U2B	2050	225	145	2	800	850	340	460	330	360	140	240	490	1015	310	310	6-M16x300	6-120x120x300
F-TXC449TS250U2B	2150	160	210	3	610	900	360	490	330	360	140	240	490	1015	310	310	8-M16x300	8-120x120x300

The force and torque of the pipe						Flange specification																			
 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C												
			F_x	F_y	F_z																				
	Inlet (5 INCH)	Pound	560	700	460																				
	Outlet (3 INCH)	Pound	240	300	200	Inlet 5 INCH	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C	16											
	Inlet (DN 125)	Newton	2490	3110	2050																				
	Outlet (DN 80)	Newton	1070	1330	890	Outlet 3 INCH	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C	16											
	Pump Flange	Unit	Axial Direction																						
	Inlet (5 INCH)	Pound-Feet	1700	870	1300																				
	Outlet (3 INCH)	Pound-Feet	700	350	530	ANSI B16.1 250 lb RF	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C	22.3	35.0										
	Inlet (DN 125)	Newton-meter	2300	1180	1760	Inlet 5 INCH	128.3	211.0	234.9	279.4	8	22.3	35.0												
	Outlet (DN 80)	Newton-meter	950	470	720	Outlet 3 INCH	76.2	144.5	168.1	209.1	8	22.3	28.4												

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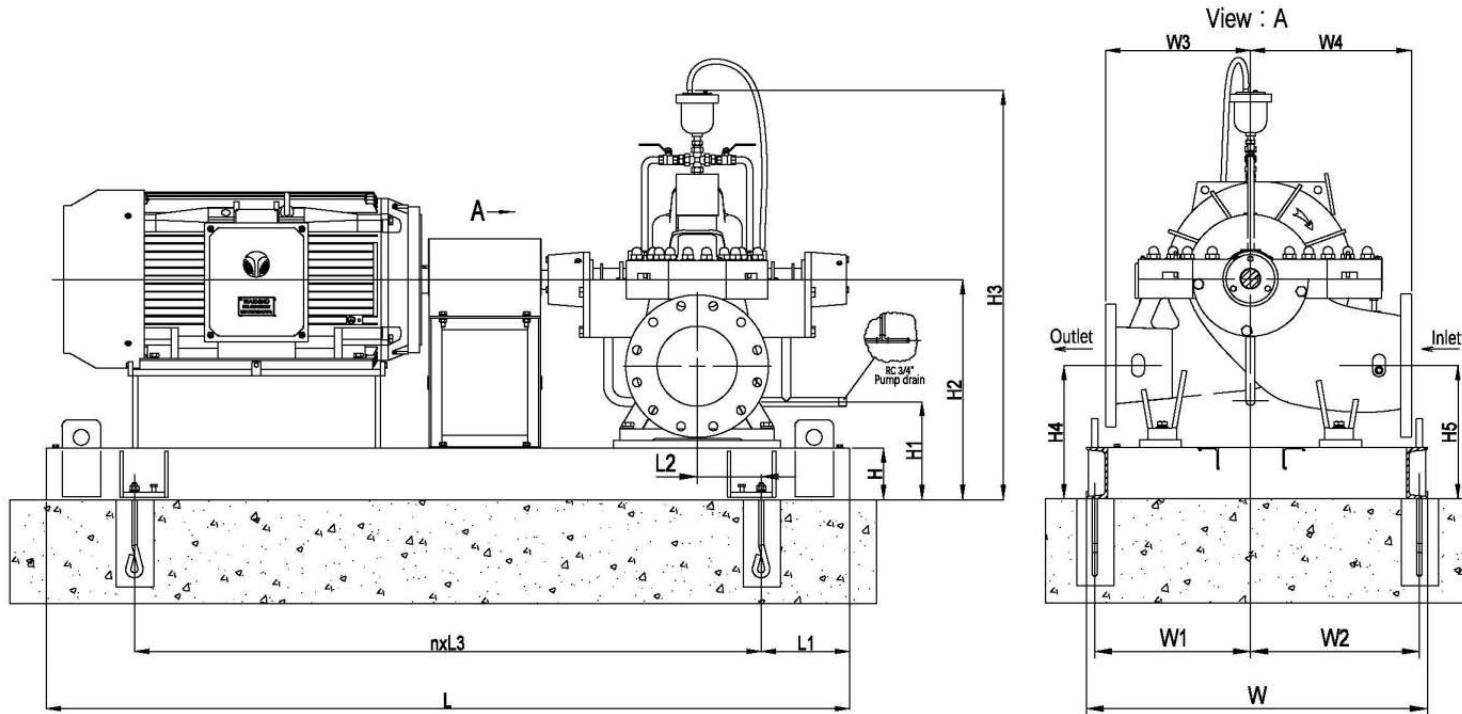
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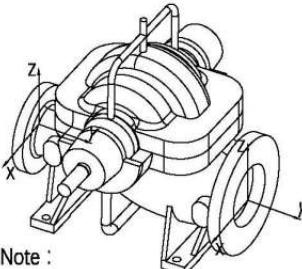


OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA125-100-300



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC365TS75U2B	1600	150	230	2	650	800	365	385	290	330	140	190	475	925	305	305	6-M16x300	6-120x120x300
F-TXC365TS75U2B	1700	150	250	2	700	800	365	385	290	330	140	190	475	925	305	305	6-M16x300	6-120x120x300
F-TDC365TS100U2B	1600	150	230	2	650	800	365	385	290	330	140	190	475	925	305	305	6-M16x300	6-120x120x300
F-TXC405TS100U2B	1800	150	230	2	750	800	335	415	290	330	140	190	475	925	305	305	6-M16x300	6-120x120x300
F-TDC404TS125U2B	1700	150	230	2	700	800	315	435	290	330	140	190	475	925	305	305	6-M16x300	6-120x120x300
F-TXC444TS125U2B	1850	175	205	2	750	850	340	460	290	330	140	190	475	925	305	305	6-M16x300	6-120x120x300
F-TDC405TS150U2B	1700	150	230	2	700	800	315	435	290	330	140	190	475	925	305	305	6-M16x300	6-120x120x300
F-TXC445TS150U2B	1850	175	205	2	750	850	340	460	290	330	140	190	475	925	305	305	6-M16x300	6-120x120x300
F-TDC444TS200U2B	1850	175	205	2	750	850	360	440	290	330	140	190	475	925	305	305	6-M16x300	6-120x120x300
F-TXC447TS200U2B	2150	160	220	3	610	900	360	490	290	330	140	190	475	925	305	305	8-M16x300	8-120x120x300

The force and torque of the pipe						Flange specification															
 <p>Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.</p>	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C								
			F_x	F_y	F_z																
	Inlet (5 INCH)	Pound	560	700	460																
	Outlet (4 INCH)	Pound	320	400	260	Inlet 5 INCH	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C	Inlet 5 INCH	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C
	Inlet (DN 125)	Newton	2490	3110	2050																
	Outlet (DN 100)	Newton	1420	1780	1160																
	Pump Flange	Unit	Axial Direction			Inlet 5 INCH	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C	Inlet 5 INCH	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C
	Inlet (5 INCH)	Pound-Feet	1700	870	1300																
	Outlet (4 INCH)	Pound-Feet	980	500	740																
	Inlet (DN 125)	Newton-meter	2300	1180	1760	Inlet 5 INCH	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C	Inlet 5 INCH	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C
	Outlet (DN 100)	Newton-meter	1330	680	1000																

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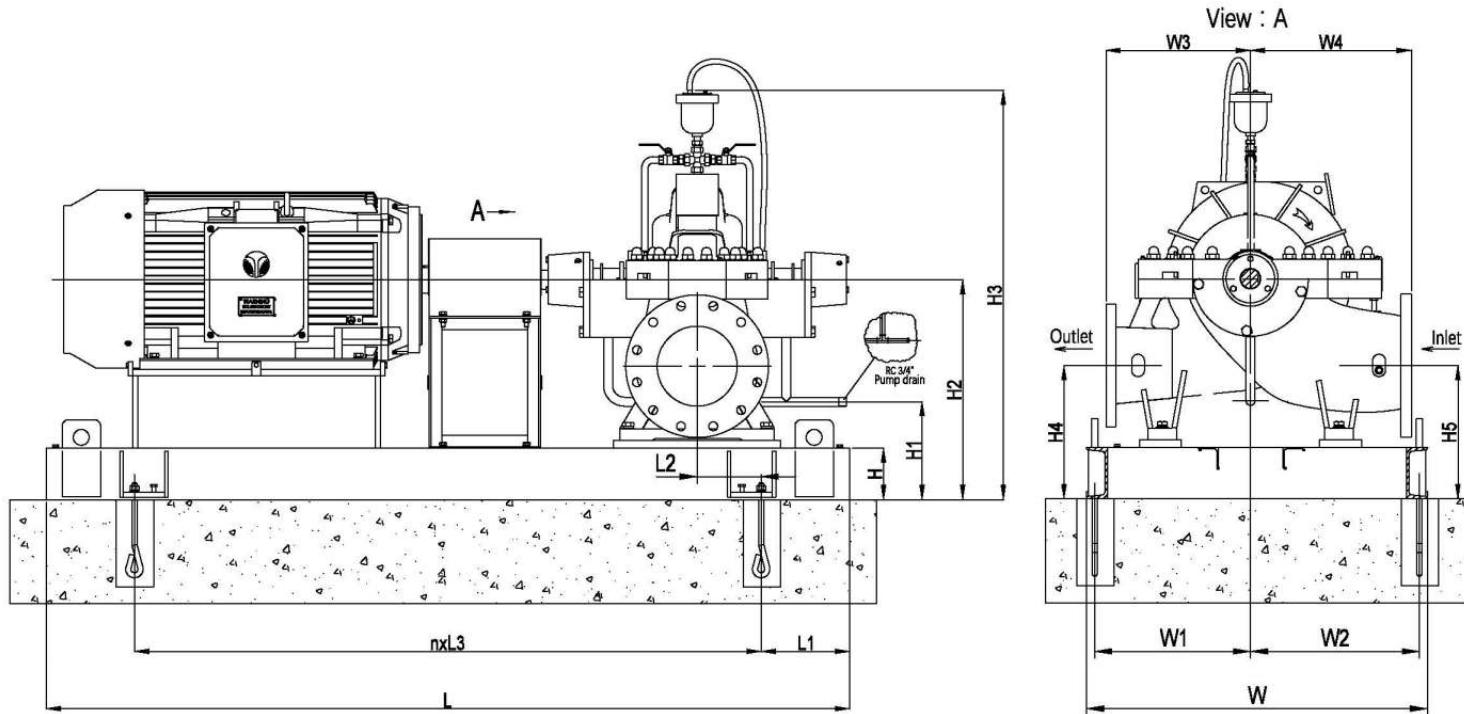
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OUTLINE DIMENSIONS - SINGLE STAGE

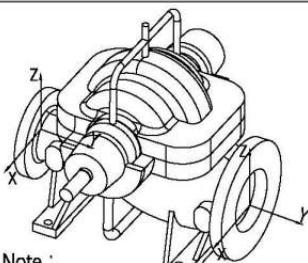
ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA150-125-200



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC364TS75U2B	1600	200	170	2	600	800	375	375	290	310	120	220	540	1000	340	340	6-M16x300	6-120x120x300
F-TXC365TS75U2B	1800	150	250	2	700	800	350	400	290	310	120	220	540	1000	340	340	6-M16x300	6-120x120x300
F-TDC365TS100U2B	1600	200	170	2	600	800	375	375	290	310	120	220	540	1000	340	340	6-M16x300	6-120x120x300
F-TXC405TS100U2B	1800	150	230	2	750	800	350	400	290	310	140	240	560	1020	360	360	6-M16x300	6-120x120x300
F-TDC404TS125U2B	1800	150	230	2	750	800	350	400	290	310	140	245	565	1025	365	365	6-M16x300	6-120x120x300
F-TXC444TS125U2B	1900	150	230	2	800	900	350	500	290	310	140	240	560	1020	360	360	6-M16x300	6-120x120x300

The force and torque of the pipe



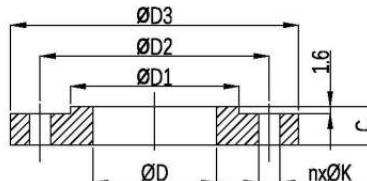
Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (6 INCH)	Pound	560	700	460
Outlet (5 INCH)	Pound	560	700	460

Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (6 INCH)	Pound-Feet	1700	870	1300
Outlet (5 INCH)	Pound-Feet	1700	870	1300

Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
		Fx	Fy	Fz	ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
Inlet (DN 150)	Newton	2490	3110	2050	Inlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5
Outlet (DN 125)	Newton	2490	3110	2050	Outlet 5 INCH	128.3	211.0	234.9	279.4	8	22.3	35.0

Flange specification



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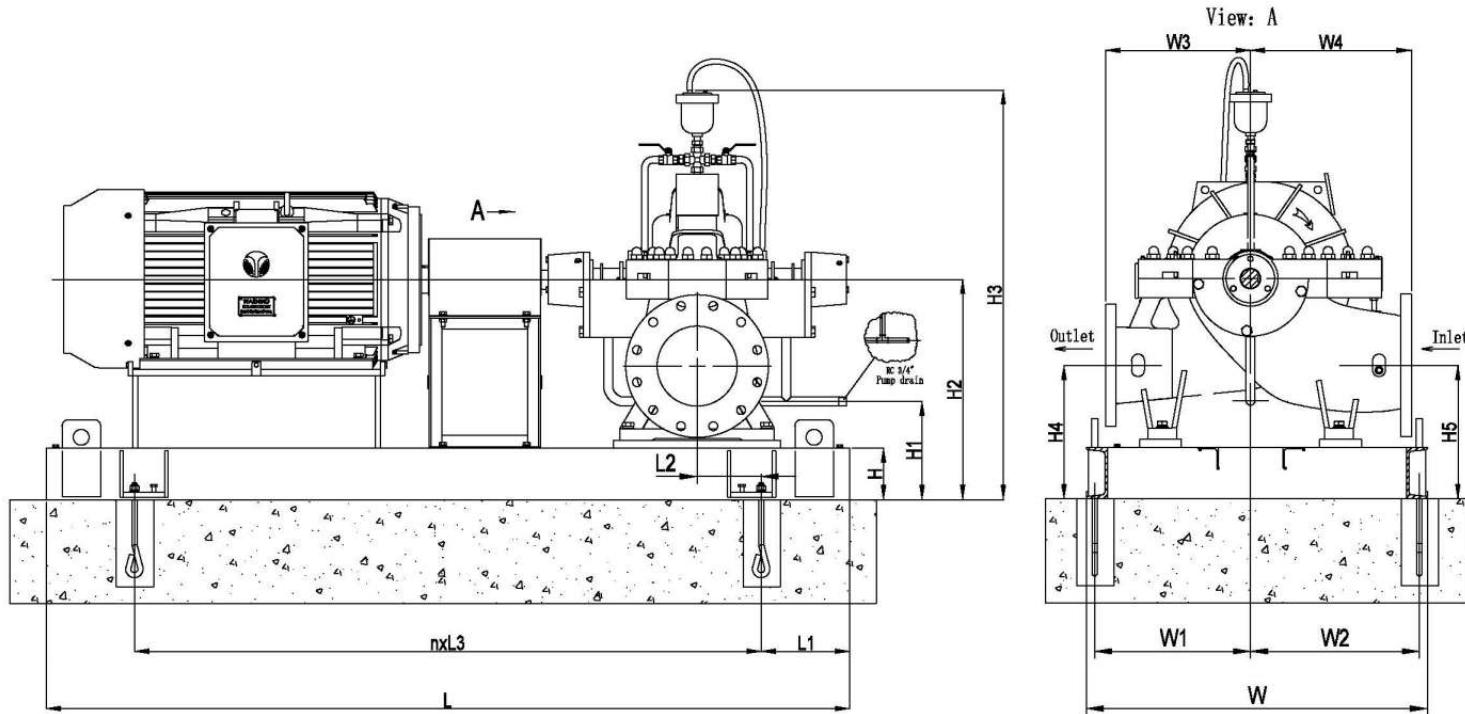
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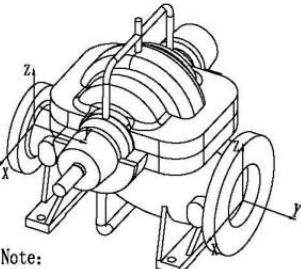
OUTLINE DIMENSIONS - SINGLE STAGE

ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA150-125-250



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC364TS75U2B	1600	200	170	2	600	800	375	375	300	350	120	220	540	1000	340	340	6-M16x300	6-120x120x300
F-TXC365TS75U2B	1700	150	250	2	700	800	350	400	300	350	120	220	540	1000	340	340	6-M16x300	6-120x120x300
F-TDC365TS100U2B	1600	200	170	2	600	800	375	375	300	350	120	220	540	1000	340	340	6-M16x300	6-120x120x300
F-TXC405TS100U2B	1800	150	230	2	750	800	350	400	300	350	140	240	560	1020	360	360	6-M16x300	6-120x120x300
F-TDC404TS125U2B	1800	150	230	2	750	800	350	400	300	350	140	245	565	1025	365	365	6-M16x300	6-120x120x300
F-TXC444TS125U2B	1900	150	230	2	800	900	350	500	300	350	140	240	560	1020	360	360	6-M16x300	6-120x120x300
F-TDC405TS150U2B	1800	150	230	2	750	800	350	400	300	350	140	245	565	1025	365	365	6-M16x300	6-120x120x300
F-TXC445TS150U2B	1900	150	230	2	800	900	350	500	300	350	140	240	560	1020	360	360	6-M16x300	6-120x120x300
F-TDC444TS200U2B	1900	150	230	2	800	900	400	450	300	350	140	240	560	1020	360	360	6-M16x300	6-120x120x300
F-TXC447TS200U2B	2100	150	220	3	600	900	350	500	300	350	140	240	560	1020	360	360	8-M16x300	8-120x120x300
F-TDC449TS250U2B	2000	100	230	3	600	900	345	505	300	350	140	240	560	1020	360	360	8-M16x300	8-120x120x300
F-TXC449TS250U2B	2100	150	220	3	600	900	350	500	300	350	140	240	560	1020	360	360	8-M16x300	8-120x120x300

The force and torque of the pipe						Flange specification												
 Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction			ØD3	ØD2	ØD1	C	n	ØK	C						
			Fx	Fy	Fz													
	Inlet (6 INCH)	Pound	560	700	460													
	Outlet (5 INCH)	Pound	560	700	460													
	Inlet (DN 150)	Newton	2490	3110	2050													
	Outlet (DN 125)	Newton	2490	3110	2050	Axial Direction												
	Pump Flange	Unit	Mx	My	Mz													
	Inlet (6 INCH)	Pound-Feet	1700	870	1300													
	Outlet (5 INCH)	Pound-Feet	1700	870	1300	ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C					
	Inlet (DN 150)	Newton-meter	2300	1180	1760	Inlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5					
	Outlet (DN 125)	Newton-meter	2300	1180	1760	Outlet 5 INCH	128.3	211.0	234.9	279.4	8	22.3	35.0					

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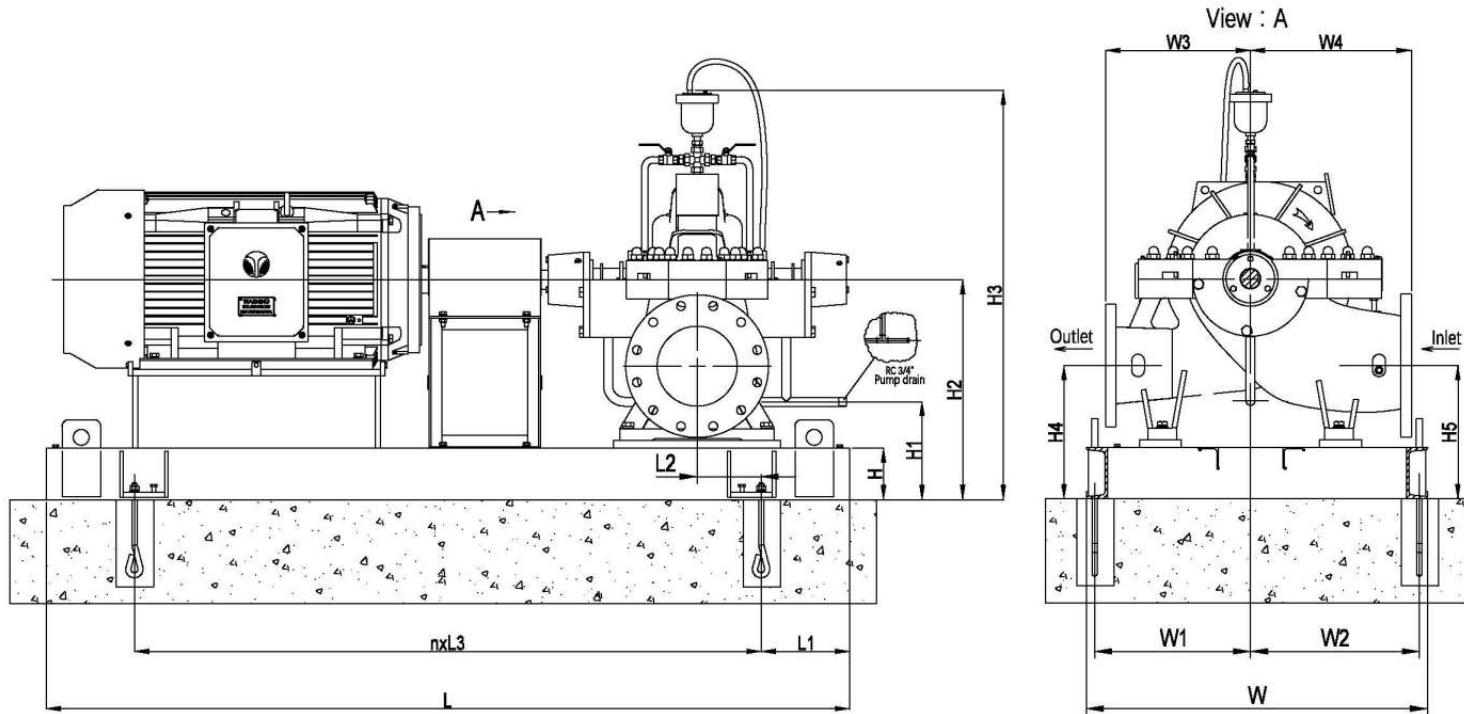
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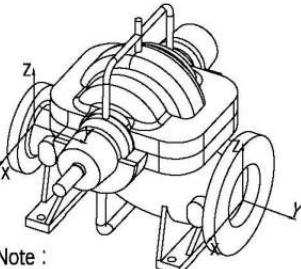
OUTLINE DIMENSIONS - SINGLE STAGE

ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA150-125-310



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC404TS125U2B	1700	150	230	2	700	800	345	405	350	400	120	205	545	1040	325	325	6-M16x300	6-120x120x300
F-TXC444TS125U2B	1900	150	230	2	800	900	400	450	350	400	140	225	565	1060	345	345	6-M16x300	6-120x120x300
F-TDC405TS150U2B	1700	150	230	2	700	800	345	405	350	400	120	205	545	1040	325	325	6-M16x300	6-120x120x300
F-TXC445TS150U2B	1900	150	230	2	800	900	400	450	350	400	140	225	565	1060	345	345	6-M16x300	6-120x120x300
F-TDC444TS200U2B	1800	150	240	2	750	900	370	480	350	400	140	225	565	1060	345	345	6-M16x300	6-120x120x300
F-TXC447TS200U2B	2100	150	230	3	600	900	375	475	350	400	140	225	565	1060	345	345	8-M16x300	8-120x120x300
F-TDC449TS250U2B	2000	100	280	3	600	900	375	475	350	400	140	225	565	1060	345	345	8-M16x300	8-120x120x300
F-TXC449TS250U2B	2100	150	230	3	600	900	375	475	350	400	140	225	565	1060	345	345	8-M16x300	8-120x120x300
F-TDC449TS300U2B	2000	100	280	3	600	900	375	475	350	400	140	225	565	1060	345	345	8-M16x300	8-120x120x300
F-TXC449TS300U2B	2100	150	230	3	600	900	375	475	350	400	140	225	565	1060	345	345	8-M16x300	8-120x120x300

The force and torque of the pipe						Flange specification													
 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction			ØD3	ØD2	ØD1	C	nxOK	ØD	ØD1	ØD2	ØD3	n	ØK	C		
			Fx	Fy	Fz														
	Inlet (6 INCH)	Pound	560	700	460														
	Outlet (5 INCH)	Pound	560	700	460	ØD3	ØD2	ØD1	C	nxOK	ØD	ØD1	ØD2	ØD3	n	ØK	C		
	Inlet (DN 150)	Newton	2490	3110	2050														
	Outlet (DN 125)	Newton	2490	3110	2050	Axial Direction	Mx	My	Mz	ØD	ØD1	ØD2	ØD3	n	ØK	C			
	Inlet (6 INCH)	Pound-Feet	1700	870	1300		Mx	My	Mz										
	Outlet (5 INCH)	Pound-Feet	1700	870	1300	ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C						
	Inlet (DN 150)	Newton-meter	2300	1180	1760		Inlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5					
	Outlet (DN 125)	Newton-meter	2300	1180	1760														

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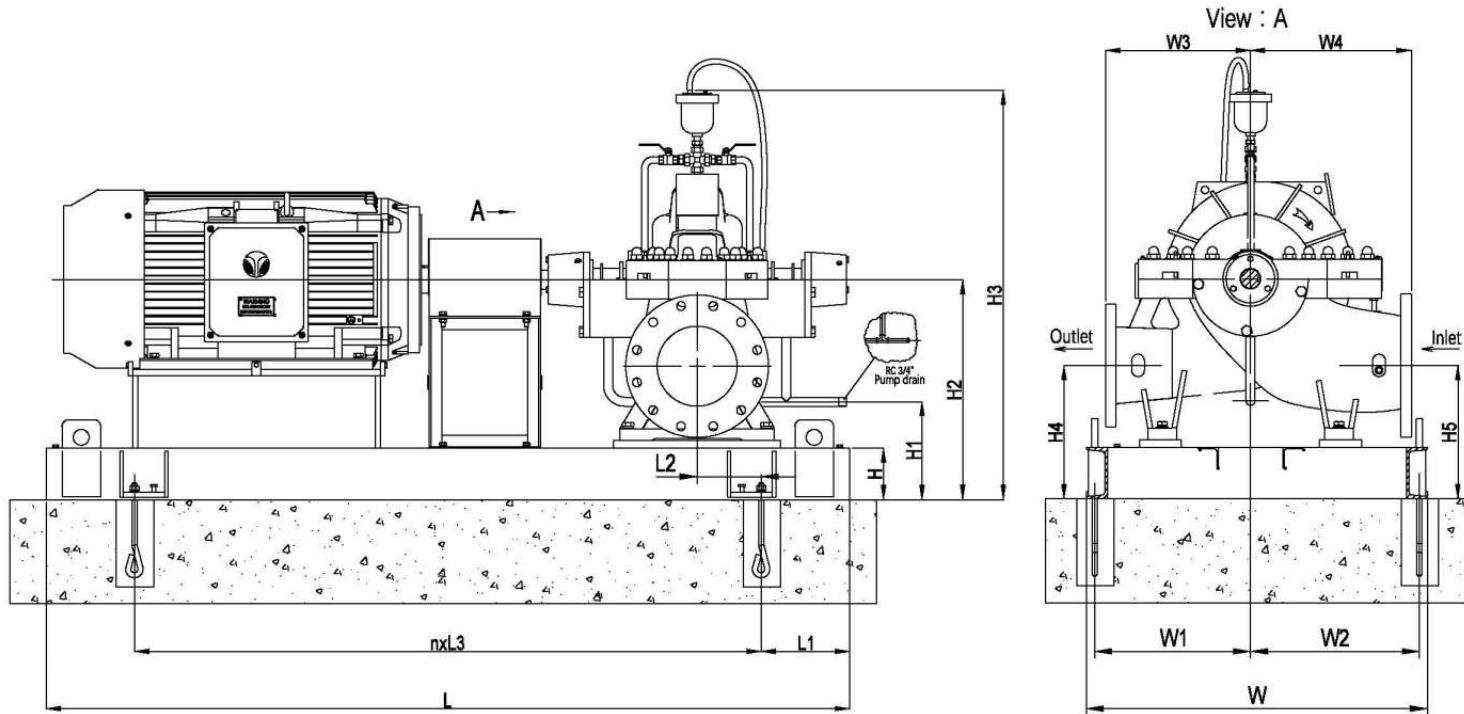
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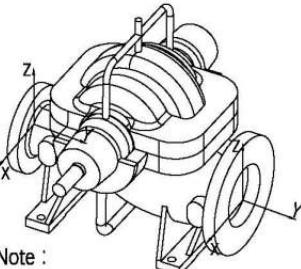
OUTLINE DIMENSIONS - SINGLE STAGE

ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA150-125-400



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC405TS150U2B	1800	150	290	2	750	1000	425	525	350	500	140	250	620	1155	335	335	6-M16x300	6-120x120x300
F-TXC447TS150U2B	2000	200	220	2	800	1000	425	525	350	500	140	250	620	1155	335	335	6-M16x300	6-120x120x300
F-TDC444TS200U2B	2000	200	210	2	800	1000	425	525	350	500	140	250	620	1155	335	335	6-M16x300	6-120x120x300
F-TXC447TS200U2B	2300	300	150	2	850	1000	425	525	350	500	160	270	640	1175	355	355	6-M16x300	6-120x120x300
F-TDC449TS250U2B	2150	275	175	2	800	1000	425	525	350	500	140	250	620	1155	335	335	6-M16x300	6-120x120x300
F-TXC449TS250U2B	2300	300	150	2	850	1000	425	525	350	500	160	270	640	1175	355	355	6-M16x300	6-120x120x300

The force and torque of the pipe							Flange specification																			
 <p>Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.</p>	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	$\varnothing D$	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	n	$\varnothing K$	C													
			F_x	F_y	F_z																					
	Inlet (6 INCH)	Pound	560	700	460																					
	Outlet (5 INCH)	Pound	560	700	460																					
	Inlet (DN 150)	Newton	2490	3110	2050																					
	Outlet (DN 125)	Newton	2490	3110	2050		Axial Direction																			
	Pump Flange	Unit	M_x	M_y	M_z																					
	Inlet (6 INCH)	Pound-Feet	1700	870	1300																					
	Outlet (5 INCH)	Pound-Feet	1700	870	1300	ANSI B16.1 250 lb RF	$\varnothing D$	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	n	$\varnothing K$	C													
							$\varnothing D$	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	n	$\varnothing K$	C													
							128.3	211.0	234.9	279.4	8	22.3	35.0													
							154.2	246.1	269.7	317.5	12	22.3	36.5													
							2300	1180	1760	Inlet 5 INCH																
							2300	1180	1760	Outlet 5 INCH																

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Looking ahead, going beyond expectations

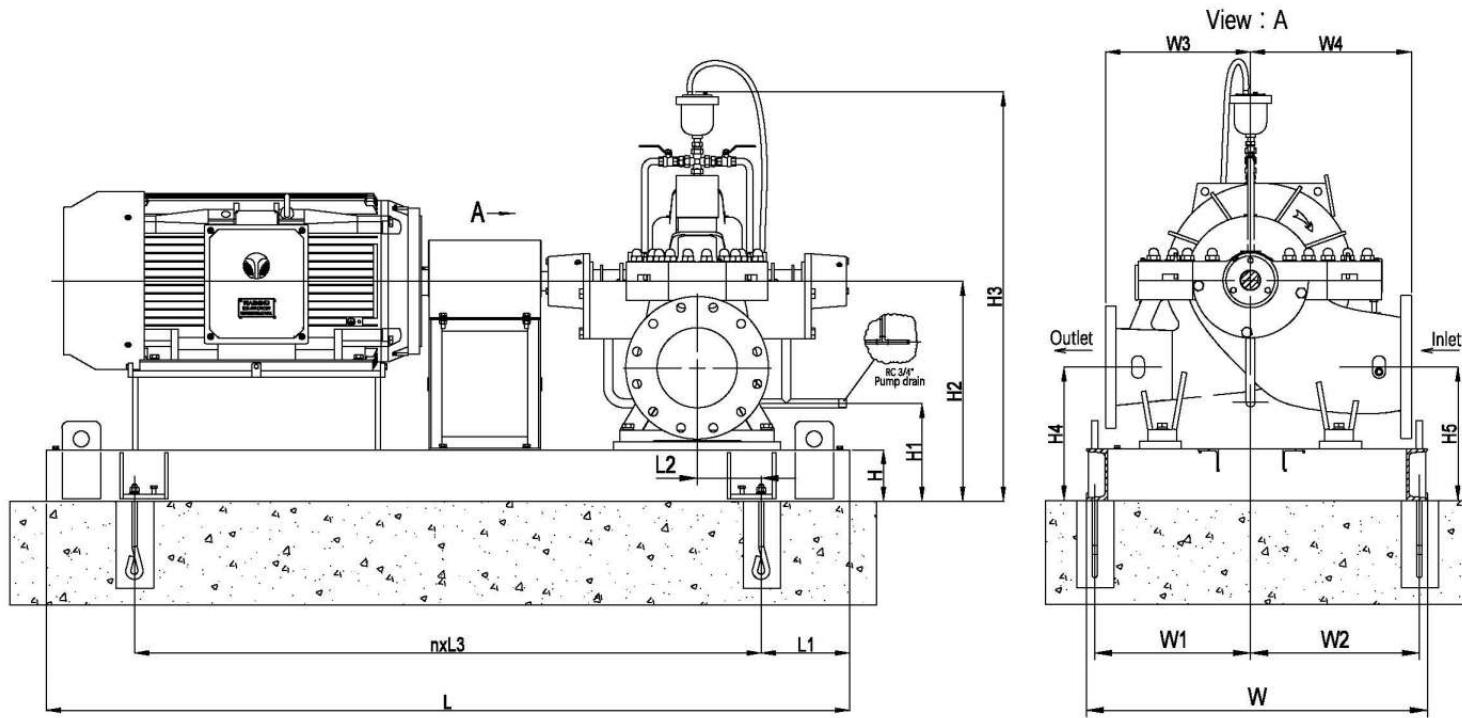
Ahead Beyond



OUTLINE DIMENSIONS - SINGLE STAGE

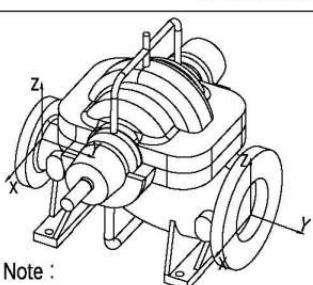
ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA200-150-250



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC365TS75U2B	1700	200	210	2	650	900	375	475	300	400	120	190	540	1038	340	340	6-M16x300	6-120x120x300
F-TXC365TS75U2B	1700	200	210	2	650	900	375	475	300	400	120	190	540	1038	340	340	6-M16x300	6-120x120x300
F-TDC365TS100U2B	1700	200	210	2	650	900	375	475	300	400	120	190	540	1038	340	340	6-M16x300	6-120x120x300
F-TXC405TS100U2B	1800	150	260	2	750	800	330	420	300	400	140	215	565	1038	365	365	6-M16x300	6-120x120x300
F-TDC404TS125U2B	1700	150	260	2	700	900	375	475	300	400	140	215	565	1038	365	365	6-M16x300	6-120x120x300
F-TXC444TS125U2B	1900	150	260	2	800	950	400	500	300	400	140	215	565	1038	365	365	6-M16x300	6-120x120x300
F-TDC405TS150U2B	1700	150	260	2	700	900	375	475	300	400	140	215	565	1038	365	365	6-M16x300	6-120x120x300
F-TXC445TS150U2B	1900	150	260	2	800	950	400	500	300	400	140	215	565	1038	365	365	6-M16x300	6-120x120x300
F-TDC444TS200U2B	1900	150	260	2	800	900	375	475	300	400	140	215	565	1038	365	365	6-M16x300	6-120x120x300
F-TXC447TS200U2B	2200	300	110	2	800	950	400	500	300	400	140	215	565	1038	365	365	6-M16x300	6-120x120x300
F-TDC449TS250U2B	2000	200	210	2	800	950	400	500	300	400	140	215	565	1038	365	365	6-M16x300	6-120x120x300
F-TXC449TS250U2B	2400	210	200	3	660	1050	425	575	300	400	140	215	565	1038	365	365	8-M16x300	8-120x120x300
F-TDC449TS300U2B	2000	200	210	2	800	950	400	500	300	400	140	215	565	1038	365	365	6-M16x300	6-120x120x300
F-TXC449TS300U2B	2400	210	200	3	660	1050	425	575	300	400	140	215	565	1038	365	365	8-M16x300	8-120x120x300

The force and torque of the pipe



Note :
The pipe close to pump need proper support,
Gravity from the inlet and outlet lines shall
not be borne by the pump.

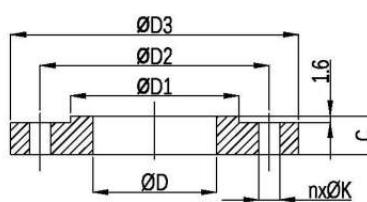
Pump Flange Unit Axial Direction

Fx	Fy	Fz		
Inlet (8 INCH)	Pound	850	1100	700
Outlet (6 INCH)	Pound	560	700	460
Inlet (DN 200)	Newton	3780	4890	3110
Outlet (DN 150)	Newton	2490	3110	2050

Pump Flange Unit Axial Direction

Mx	My	Mz		
Inlet (8 INCH)	Pound-Feet	2600	1300	1900
Outlet (6 INCH)	Pound-Feet	1700	870	1300
Inlet (DN 200)	Newton-meter	3530	1760	2580
Outlet (DN 150)	Newton-meter	2300	1180	1760

Flange specification



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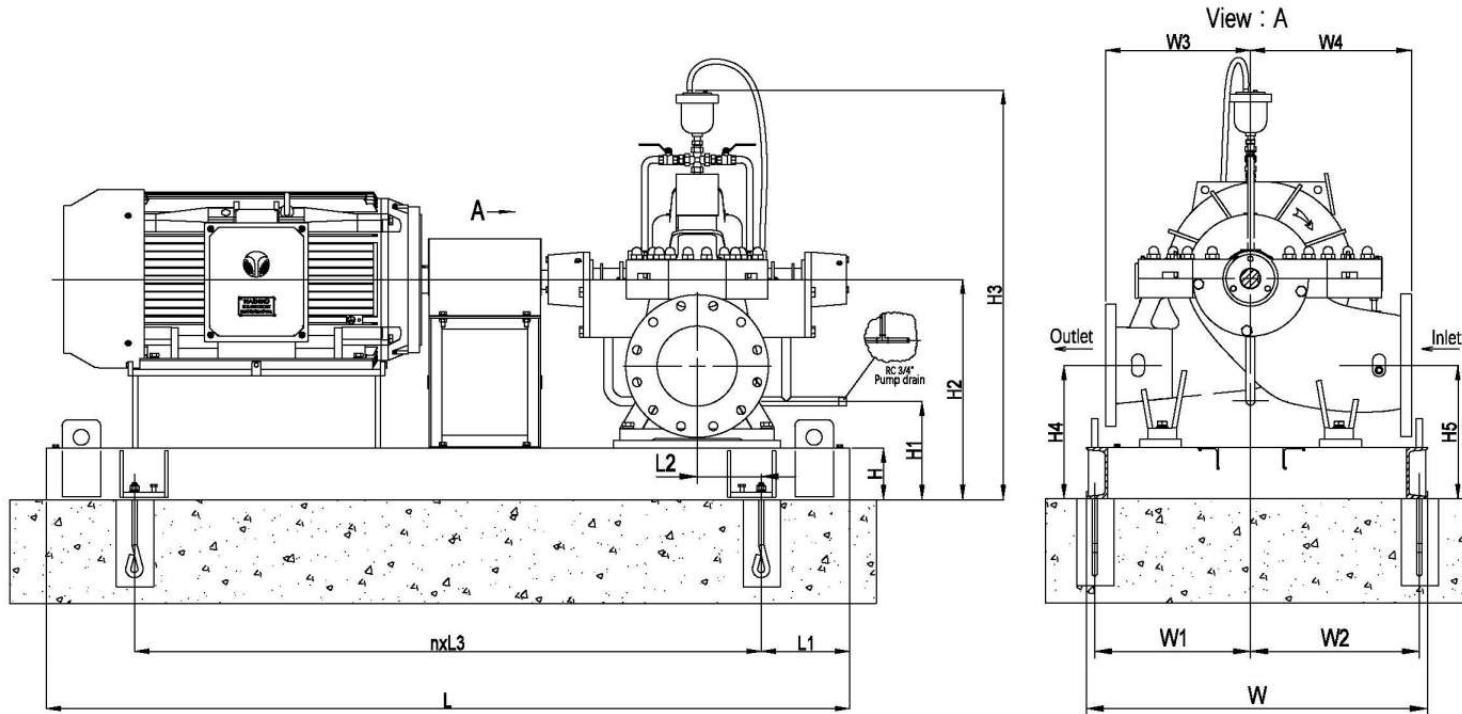
Looking ahead, going beyond expectations

Ahead Beyond

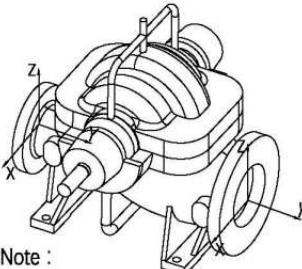


OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA200-150-310



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC405TS150U2B	1800	150	260	2	750	900	390	460	350	425	140	215	565	1055	355	370	6-M16x300	6-120x120x300
F-TDC444TS200U2B	1900	200	210	2	750	950	415	485	350	425	140	215	565	1055	355	370	6-M16x300	6-120x120x300
F-TDC447TS350U2B	2100	250	160	2	800	950	415	485	350	425	140	215	565	1055	355	370	6-M16x300	6-120x120x300
F-TDC449TS300U2B	2100	250	160	2	800	950	415	485	350	425	140	215	565	1055	355	370	6-M16x300	6-120x120x300
F-TXC445TS150U2B	2000	200	210	2	800	950	415	485	350	425	140	215	565	1055	355	370	6-M16x300	6-120x120x300
F-TXC447TS200U2B	2200	300	110	2	800	950	415	485	350	425	140	215	565	1055	355	370	6-M16x300	6-120x120x300
F-TXC449TS250U2B	2200	300	110	2	800	950	415	485	350	425	140	215	565	1055	355	370	6-M16x300	6-120x120x300
F-TXC449TS300U2B	2400	150	260	3	700	1050	440	560	350	425	140	215	565	1055	355	370	8-M16x300	8-120x120x300
F-TXC586/7TS350U2B	2500	275	135	3	650	1100	425	625	350	425	160	235	585	1075	375	390	8-M20x400	8-120x120x400

The force and torque of the pipe						Flange specification											
 Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction			ØD3	ØD2	ØD1	ØD	n	ØK	C					
			Fx	Fy	Fz												
	Inlet (8 INCH)	Pound	850	1100	700												
	Outlet (6 INCH)	Pound	560	700	460												
	Inlet (DN 200)	Newton	3780	4890	3110												
	Outlet (DN 150)	Newton	2490	3110	2050												
	Pump Flange	Unit	Axial Direction			ØD3	ØD2	ØD1	ØD	n	ØK	C					
			Mx	My	Mz												
	Inlet (8 INCH)	Pound-Feet	2600	1300	1900												
	Outlet (6 INCH)	Pound-Feet	1700	870	1300	ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C				
	Inlet (DN 200)	Newton-meter	3530	1760	2580	Inlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1				
	Outlet (DN 150)	Newton-meter	2300	1180	1760	Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5				

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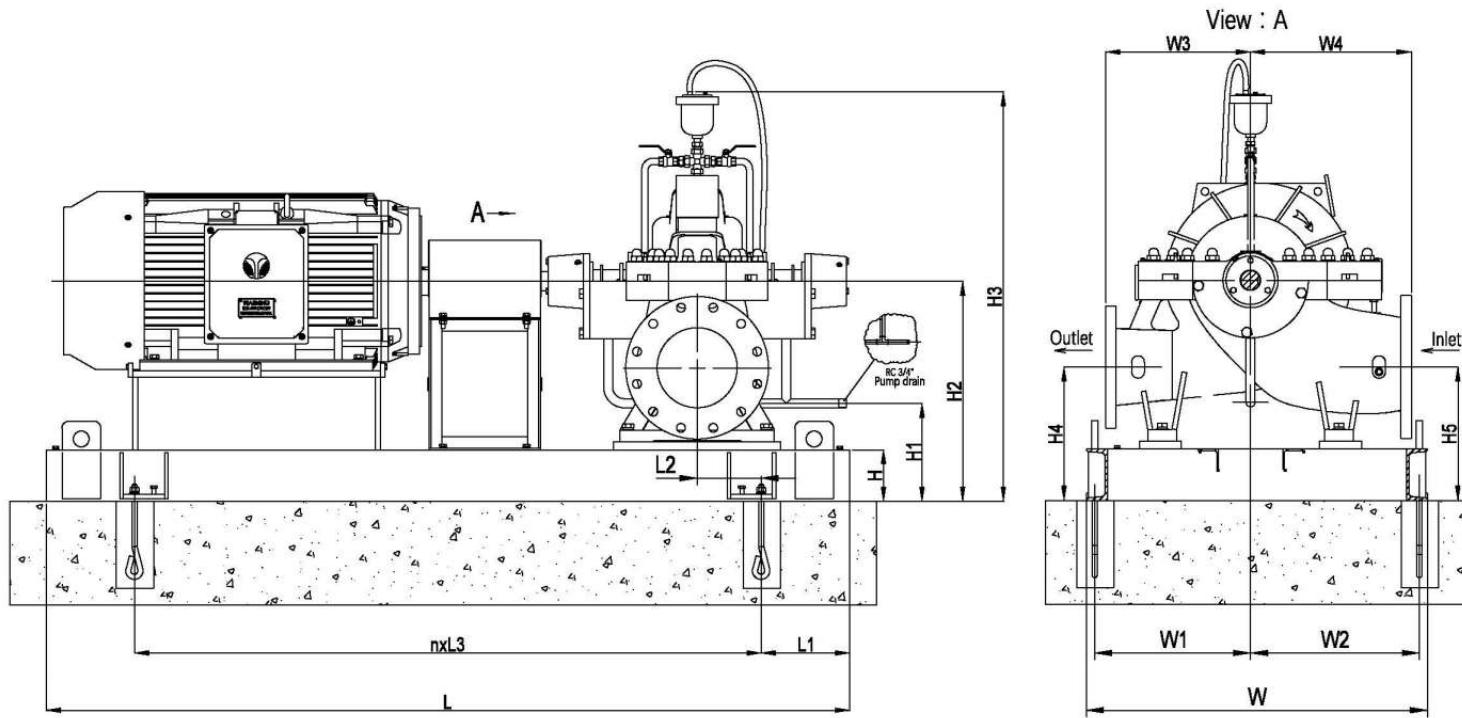
Looking ahead, going beyond expectations

Ahead Beyond

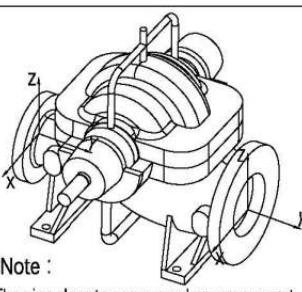
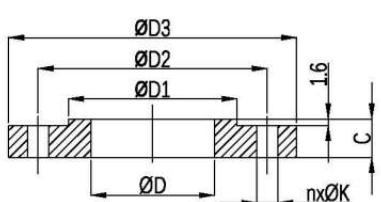


OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA200-150-330



Motor model	Dimensions (Unit:mm)																Anchor bolt	Anchor bolt box
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC444TS200U2B	2000	200	220	2	800	950	420	480	350	415	140	225	620	1155	390	390	6-M16x300	6-120x120x300
F-TDC447TS300U2B	2150	275	145	2	800	950	420	480	350	415	140	225	620	1155	390	390	6-M16x300	6-120x120x300
F-TDC449TS250U2B	2150	275	145	2	800	950	420	480	350	415	140	225	620	1155	390	390	6-M16x300	6-120x120x300
F-TXC447TS200U2B	2200	300	120	2	800	950	420	480	350	415	140	225	620	1155	390	390	6-M16x300	8-120x120x300
F-TXC449TS250U2B	2200	300	120	2	800	950	420	480	350	415	140	225	620	1155	390	390	6-M16x300	8-120x120x300
F-TXC449TS300U2B	2400	150	270	3	700	1050	445	555	350	415	140	225	620	1155	390	390	8-M16x300	8-120x120x300

The force and torque of the pipe						Flange specification												
 <p>Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.</p>	Pump Flange	Unit	Axial Direction															
			Fx	Fy	Fz													
	Inlet (8 INCH)	Pound	850	1100	700													
	Outlet (6 INCH)	Pound	560	700	460													
	Inlet (DN 200)	Newton	3780	4890	3110													
	Outlet (DN 150)	Newton	2490	3110	2050													
	Pump Flange	Unit	Axial Direction															
			Mx	My	Mz													
	Inlet (8 INCH)	Pound-Feet	2600	1300	1900													
	Outlet (6 INCH)	Pound-Feet	1700	870	1300	ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C					
	Inlet (DN 200)	Newton-meter	3530	1760	2580	Inlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1					
	Outlet (DN 150)	Newton-meter	2300	1180	1760	Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5					

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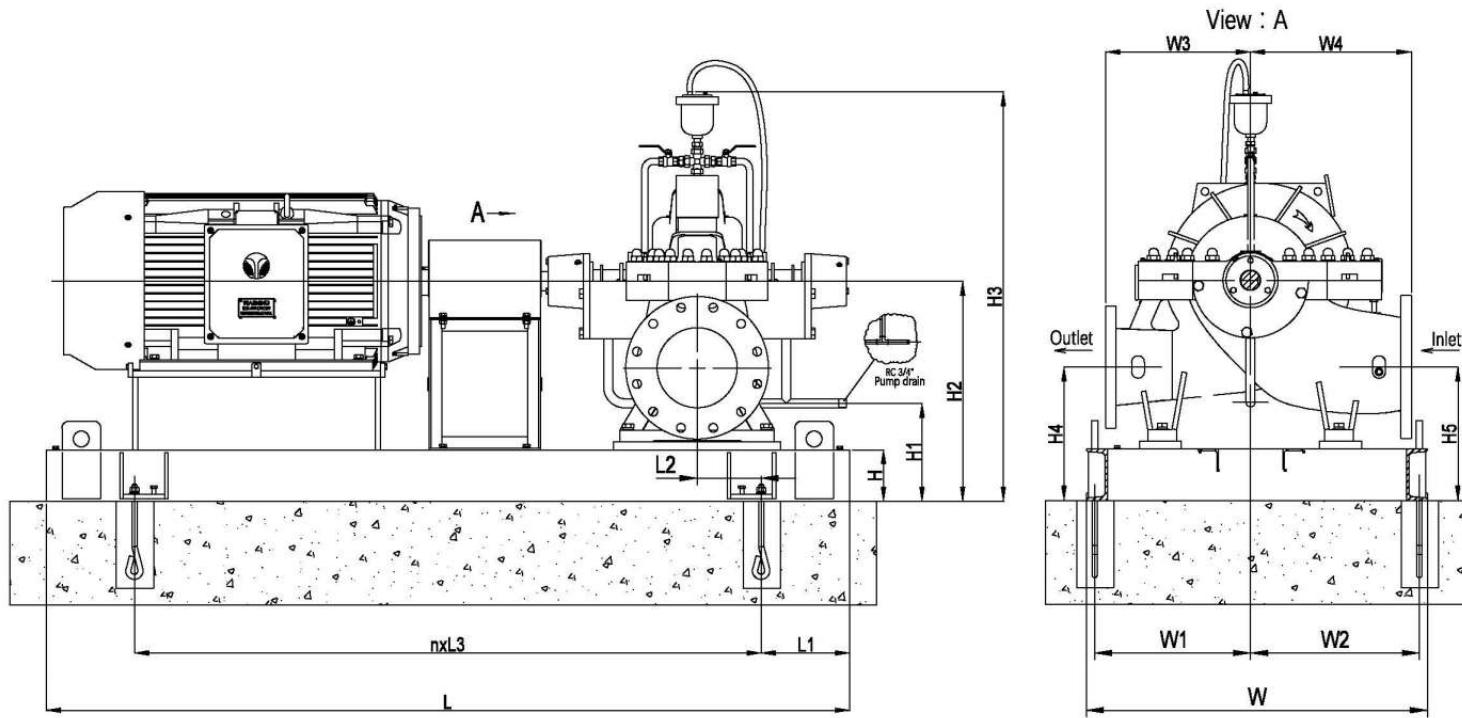
Looking ahead, going beyond expectations

Ahead Beyond

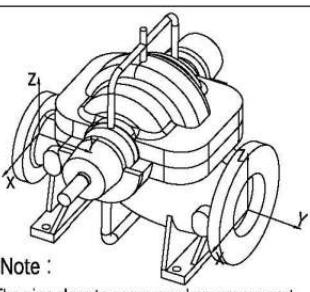
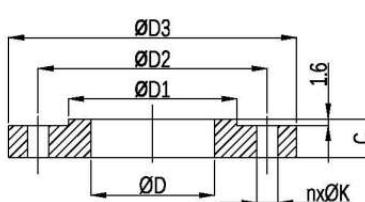


OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA200-150-375



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC365T75U4B	1700	150	270	2	700	850	365	435	340	420	120	205	600	1172	350	350	6-M16x300	6-120x120x300
F-TXC365T75U4B	1800	150	270	2	750	850	365	435	340	420	120	205	600	1172	350	350	6-M16x300	6-120x120x300
F-TDC405T100U4B	1900	150	270	2	800	850	365	435	340	420	120	205	600	1172	350	350	6-M16x300	6-120x120x300
F-TXC405T100U4B	2000	200	220	2	800	850	365	435	340	420	120	205	600	1172	350	350	6-M16x300	6-120x120x300
F-TDC405T125U4B	1900	150	270	2	800	850	365	435	340	420	120	205	600	1172	350	350	6-M16x300	6-120x120x300
F-TXC444T125U4B	2100	250	170	2	800	900	375	475	340	420	140	225	620	1192	370	370	6-M16x300	6-120x120x300
F-TDC444T150U4B	2000	200	220	2	800	900	375	475	340	420	140	225	620	1192	370	370	6-M16x300	6-120x120x300
F-TXC445T150U4B	2100	250	170	2	800	900	375	475	340	420	140	225	620	1192	370	370	6-M16x300	6-120x120x300
F-TDC445T200U4B	2000	200	220	2	800	900	375	475	340	420	140	225	620	1192	370	370	6-M16x300	6-120x120x300
F-TXC447T200U4B	2300	300	120	2	850	900	375	475	340	420	140	225	620	1192	370	370	6-M16x300	6-120x120x300

The force and torque of the pipe						Flange specification											
 Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction														
	Inlet (8 INCH)	Pound	Fx	Fy	Fz												
	Outlet (6 INCH)	Pound	560	700	460												
	Inlet (DN 200)	Newton	3780	4890	3110												
	Outlet (DN 150)	Newton	2490	3110	2050												
	Pump Flange	Unit	Axial Direction														
	Inlet (8 INCH)	Pound-Feet	2600	1300	1900												
	Outlet (6 INCH)	Pound-Feet	1700	870	1300	ANSI B16.1 250 LB RF	ØD	ØD1	ØD2	ØD3	n	ØK	C				
	Inlet (DN 200)	Newton-meter	3530	1760	2580	Inlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1				
	Outlet (DN 150)	Newton-meter	2300	1180	1760	Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5				

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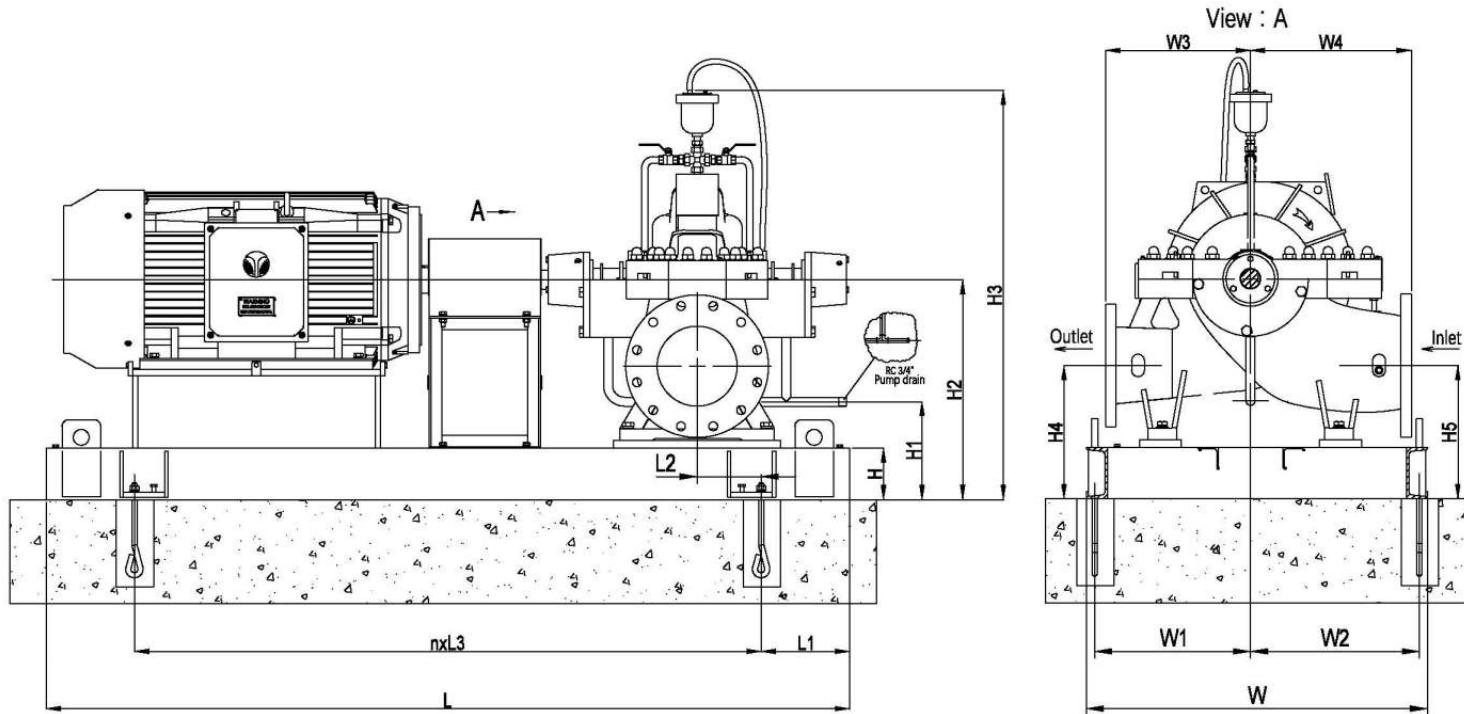
Looking ahead, going beyond expectations

Ahead Beyond

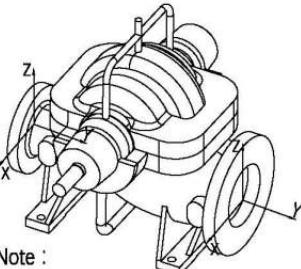


OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA200-150-400



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC444T150U4B	2000	200	220	2	800	900	375	475	370	450	140	225	620	1120	370	370	6-M16x300	6-120x120x300
F-TXC445T150U4B	2150	225	195	2	850	900	375	475	370	450	140	225	620	1120	370	370	6-M16x300	6-120x120x300
F-TDC445T200U4B	2000	200	220	2	800	900	375	475	370	450	140	225	620	1120	370	370	6-M16x300	6-120x120x300
F-TXC447T200U4B	2350	125	295	3	700	900	375	475	370	450	140	225	620	1120	370	370	8-M16x300	8-120x120x300

The force and torque of the pipe							Flange specification																					
 <p>Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.</p>	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C															
			F_x	F_y	F_z																							
	Inlet (8 INCH)	Pound	850	1100	700																							
	Outlet (6 INCH)	Pound	560	700	460																							
	Inlet (DN 200)	Newton	3780	4890	3110																							
	Outlet (DN 150)	Newton	2490	3110	2050																							
	Pump Flange	Unit	Axial Direction																									
			M_x	M_y	M_z																							
	Inlet (8 INCH)	Pound-Feet	2600	1300	1900																							
	Outlet (6 INCH)	Pound-Feet	1700	870	1300	ANSI B16.1 250 lb RF	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C															
	Inlet (DN 200)	Newton-meter	3530	1760	2580	Inlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1															
	Outlet (DN 150)	Newton-meter	2300	1180	1760	Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5															

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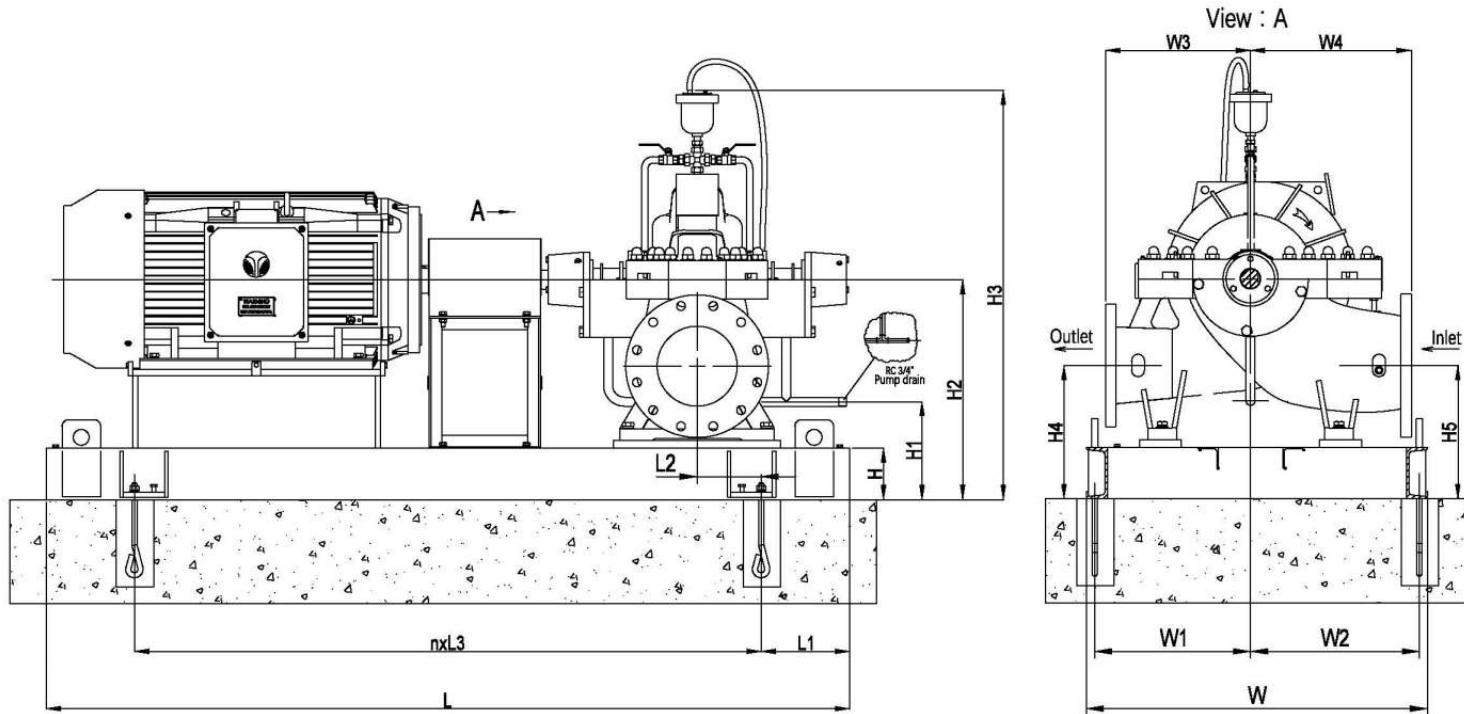
Ahead Beyond



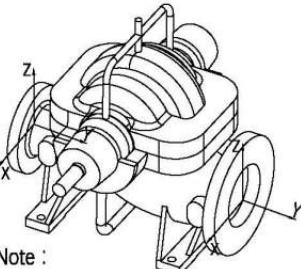
OUTLINE DIMENSIONS - SINGLE STAGE

ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA200-150-420



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC447TS300U2B	2100	250	160	2	800	950	425	475	400	450	140	195	620	1155	340	370	6-M16x300	6-120x120x300
F-TXC449TS250U2B	2200	300	110	2	800	950	425	475	400	450	140	195	620	1155	340	370	6-M16x300	6-120x120x300
F-TXC449TS300U2B	2400	150	260	3	700	1050	450	550	400	450	140	195	620	1155	340	370	8-M16x300	8-120x120x300
F-TXC586/7TS400U2B	2500	275	135	3	650	1100	425	625	400	450	160	215	640	1175	360	390	8-M20x400	8-120x120x400

The force and torque of the pipe							Flange specification																								
 Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C																		
			Fx	Fy	Fz																										
			Inlet (8 INCH)	Pound	850	1100	700																								
			Outlet (6 INCH)	Pound	560	700	460																								
			Inlet (DN 200)	Newton	3780	4890	3110																								
			Outlet (DN 150)	Newton	2490	3110	2050																								
			Axial Direction			Inlet (8 INCH)	Pound-Feet	Mx	My	Mz																					

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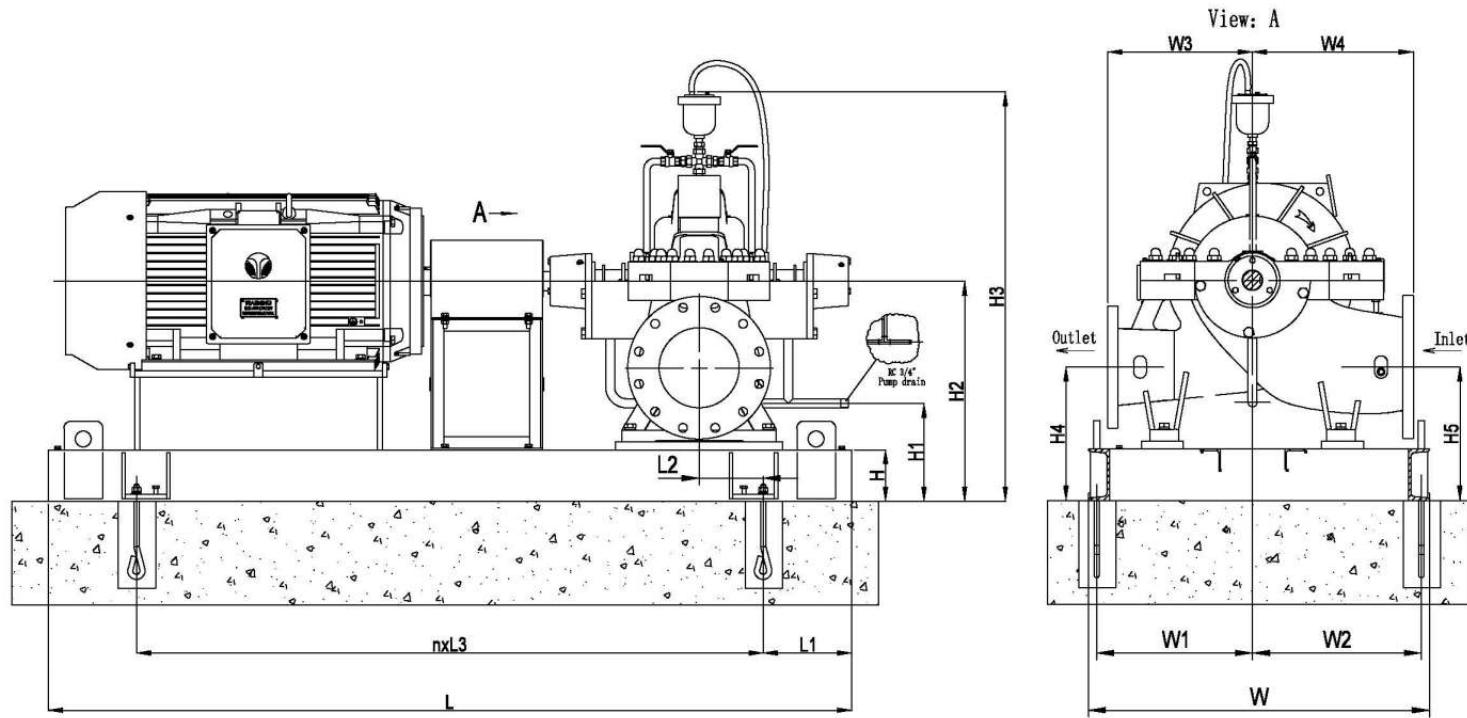
Looking ahead, going beyond expectations

Ahead Beyond

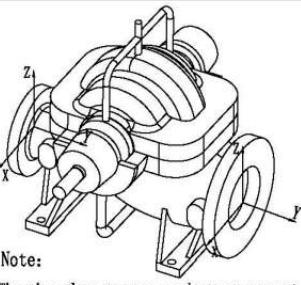


OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA200-150-480



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC444T150U4B	2100	250	190	2	800	1000	425	525	420	500	140	225	635	1266	385	385	6-M16x300	6-120x120x300
F-TDC445T200U4B	2100	250	190	2	800	1000	425	525	420	500	140	225	635	1266	385	385	6-M16x300	6-120x120x300
F-TDC447T250U4B	2300	175	265	3	650	1000	425	525	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300
F-TDC449T300U4B	2300	175	265	3	650	1000	425	525	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300
F-TXC447T200U4B	2400	150	290	3	700	1000	425	525	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300
F-TXC449T250U4B	2400	150	290	3	700	1000	425	525	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300
F-TXC449T300U4B	2400	150	290	3	700	1000	425	525	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300

The force and torque of the pipe						Flange specification											
 Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	ϕD	ϕD_1	ϕD_2	ϕD_3	n	ϕK	C				
			F_x	F_y	F_z												
	Inlet (8 INCH)	Pound	850	1100	700												
	Outlet (6 INCH)	Pound	560	700	460												
	Inlet (DN 200)	Newton	3780	4890	3110												
	Outlet (DN 150)	Newton	2490	3110	2050												
	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	ϕD	ϕD_1	ϕD_2	ϕD_3	n	ϕK	C				
			M_x	M_y	M_z												
	Inlet (8 INCH)	Pound-Feet	2600	1300	1900												
	Outlet (6 INCH)	Pound-Feet	1700	870	1300												
	Inlet (DN 200)	Newton-meter	3530	1760	2580												
	Outlet (DN 150)	Newton-meter	2300	1180	1760												

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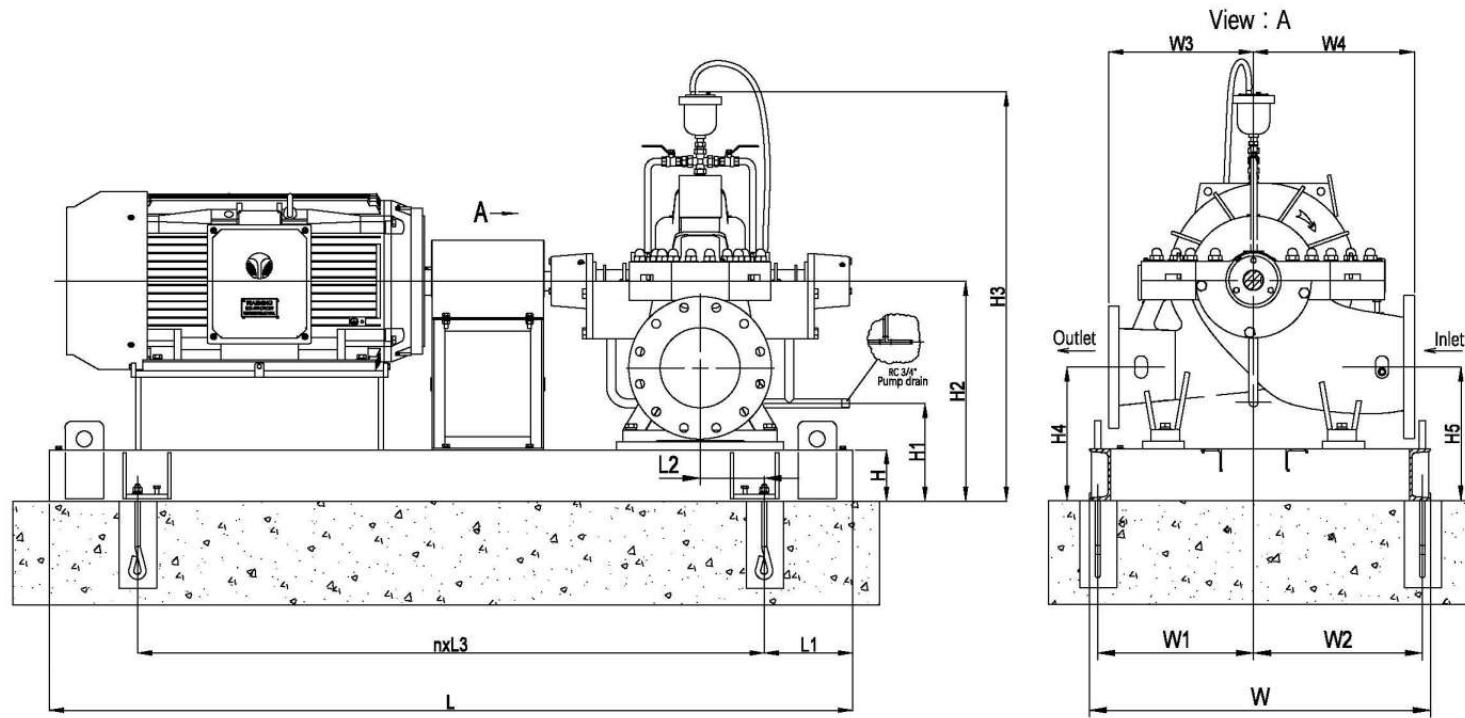
Ahead Beyond



OUTLINE DIMENSIONS - SINGLE STAGE

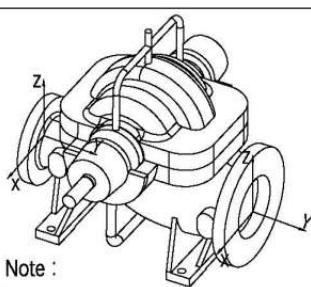
ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA200-150-480GL



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC445T200U4B	2100	250	190	2	800	1000	425	525	420	500	140	225	635	1266	385	385	6-M16x300	6-120x120x300
F-TDC447T250U4B	2300	175	265	3	650	1000	425	525	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300
F-TDC449T300U4B	2300	175	265	3	650	1000	425	525	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300
F-TDC449T350U4B	2300	175	265	3	650	1000	425	525	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300
F-TXC447T200U4B	2400	150	290	3	700	1000	425	525	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300
F-TXC449T250U4B	2400	150	290	3	700	1000	425	525	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300
F-TXC449T300U4B	2400	150	290	3	700	1000	425	525	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300
F-TXC586/7T350U4B	2700	150	290	3	800	1120	425	645	420	500	140	225	635	1266	385	385	8-M16x300	8-120x120x300

The force and torque of the pipe



Note :

The pipe close to pump need proper support, Gravity from the inlet and outlet lines shall not be borne by the pump.

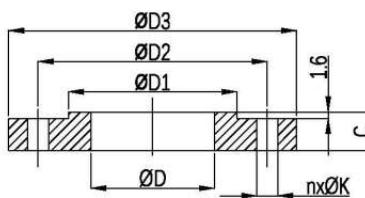
Pump Flange Unit Axial Direction

Pump Flange	Unit	Fx	Fy	Fz
Inlet (8 INCH)	Pound	850	1100	700
Outlet (6 INCH)	Pound	560	700	460
Inlet (DN 200)	Newton	3780	4890	3110
Outlet (DN 150)	Newton	2490	3110	2050

Pump Flange Unit Axial Direction

Pump Flange	Unit	Mx	My	Mz
Inlet (8 INCH)	Pound-Feet	2600	1300	1900
Outlet (6 INCH)	Pound-Feet	1700	870	1300
Inlet (DN 200)	Newton-meter	3530	1760	2580
Outlet (DN 150)	Newton-meter	2300	1180	1760

Flange specification



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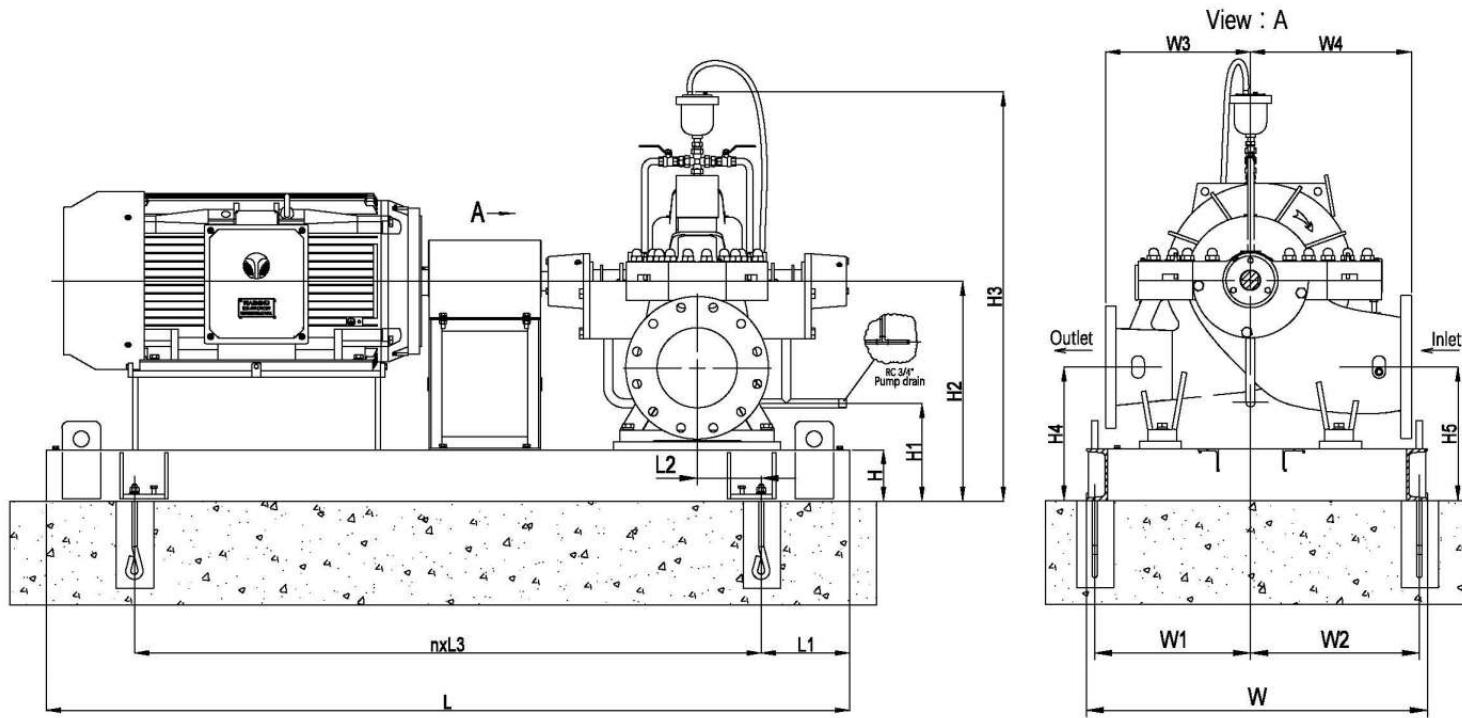
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OUTLINE DIMENSIONS - SINGLE STAGE

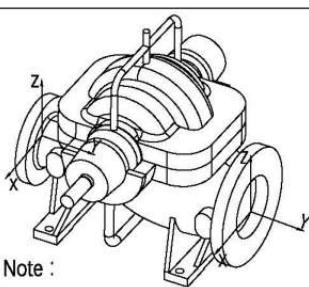
ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA200-150-600



Motor model	Dimensions (Unit:mm)																Anchor bolt	Anchor bolt box
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC445T200U4B	2100	250	190	2	800	1100	475	575	480	560	140	225	705	1350	375	375	6M16x300	6-120x120x300
F-TDC447T200U4B	2400	150	290	3	700	1100	475	575	480	560	140	225	705	1350	375	375	8-M20x400	8-120x120x400
F-TDC447T250U4B	2300	175	265	3	650	1100	475	575	480	560	140	225	705	1350	375	375	8-M20x400	8-120x120x400
F-TXC449T250U4B	2400	150	290	3	700	1100	475	575	480	560	140	225	705	1350	375	375	8-M20x400	8-120x120x400
F-TXC449T300U4B	2300	175	265	3	650	1100	475	575	480	560	140	225	705	1350	375	375	8-M20x400	8-120x120x400
F-TXC449T300U4B	2400	150	290	3	700	1100	475	575	480	560	140	225	705	1350	375	375	8-M20x400	8-120x120x400
F-TDC449T350U4B	2300	175	265	3	650	1100	475	575	480	560	140	225	705	1350	375	375	8-M20x400	8-120x120x400
F-TXC586/7T350U4B	2700	300	150	3	700	1200	475	675	480	560	160	245	725	1370	395	395	8-M20x400	8-120x120x400

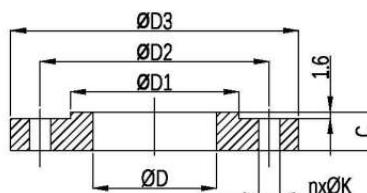
The force and torque of the pipe



Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (8 INCH)	Pound	850	1100	700
Outlet (6 INCH)	Pound	560	700	460
Inlet (DN 200)	Newton	3780	4890	3110
Outlet (DN 150)	Newton	2490	3110	2050
Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (8 INCH)	Pound-Feet	2600	1300	1900
Outlet (6 INCH)	Pound-Feet	1700	870	1300
Inlet (DN 200)	Newton-meter	3530	1760	2580
Outlet (DN 150)	Newton-meter	2300	1180	1760

Flange specification



ØD	ØD1	ØD2	ØD3	n	ØK	C
203.2	303.2	330.2	381.0	12	25.4	41.1
154.2	246.1	269.7	317.5	12	22.3	36.5

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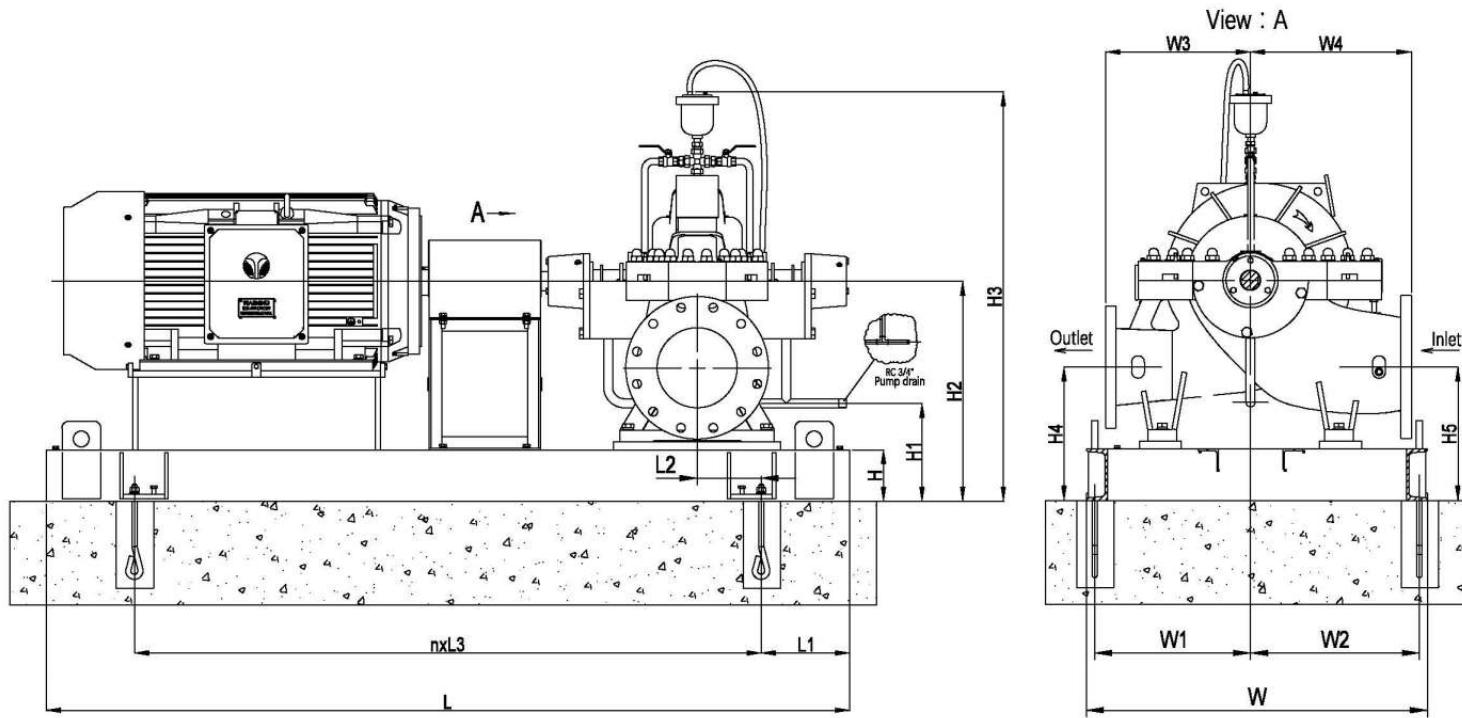
Ahead Beyond



OUTLINE DIMENSIONS - SINGLE STAGE

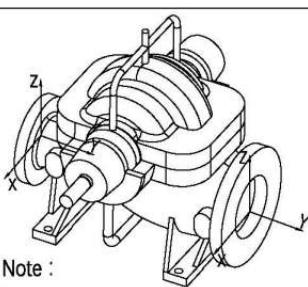
ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA200-150-640



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC445T200U4B	2300	175	375	3	650	1150	445	555	500	600	140	265	725	1745	375	375	8-M16x300	8-120x120x300
F-TDC447T250U4B	2500	275	275	3	650	1150	445	555	500	600	160	285	745	1765	395	395	8-M20x400	8-120x120x400
F-TDC449T300U4B	2500	275	275	3	650	1150	445	555	500	600	160	285	745	1765	395	395	8-M20x400	8-120x120x400
F-TXC447T200U4B	2600	250	300	3	700	1150	445	555	500	600	160	285	745	1765	395	395	8-M20x400	8-120x120x400
F-TXC449T250U4B	2600	250	300	3	700	1150	445	555	500	600	160	285	745	1765	395	395	8-M20x400	8-120x120x400
F-TXC449T300U4B	2600	250	300	3	700	1150	445	555	500	600	160	285	745	1765	395	395	8-M20x400	8-120x120x400
F-TXC586/7T350U4B	2800	275	275	3	750	1200	505	595	500	600	180	305	765	1785	415	415	8-M20x400	8-120x120x400
F-TXC586/7T400U4B	2800	275	275	3	750	1200	505	595	500	600	180	305	765	1785	415	415	8-M20x400	8-120x120x400
F-TXC586/7T450U4B	2800	275	275	3	750	1200	505	595	500	600	180	305	765	1785	415	415	8-M20x400	8-120x120x400

The force and torque of the pipe



Note :

The pipe close to pump need proper support, Gravity from the inlet and outlet lines shall not be borne by the pump.

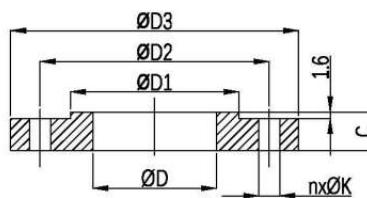
Pump Flange Unit Axial Direction

	Fx	Fy	Fz	
Inlet (8 INCH)	Pound	850	1100	700
Outlet (6 INCH)	Pound	560	700	460
Inlet (DN 200)	Newton	3780	4890	3110
Outlet (DN 150)	Newton	2490	3110	2050

Pump Flange Unit Axial Direction

	Mx	My	Mz	
Inlet (8 INCH)	Pound-Feet	2600	1300	1900
Outlet (6 INCH)	Pound-Feet	1700	870	1300
Inlet (DN 200)	Newton-meter	3530	1760	2580
Outlet (DN 150)	Newton-meter	2300	1180	1760

Flange specification



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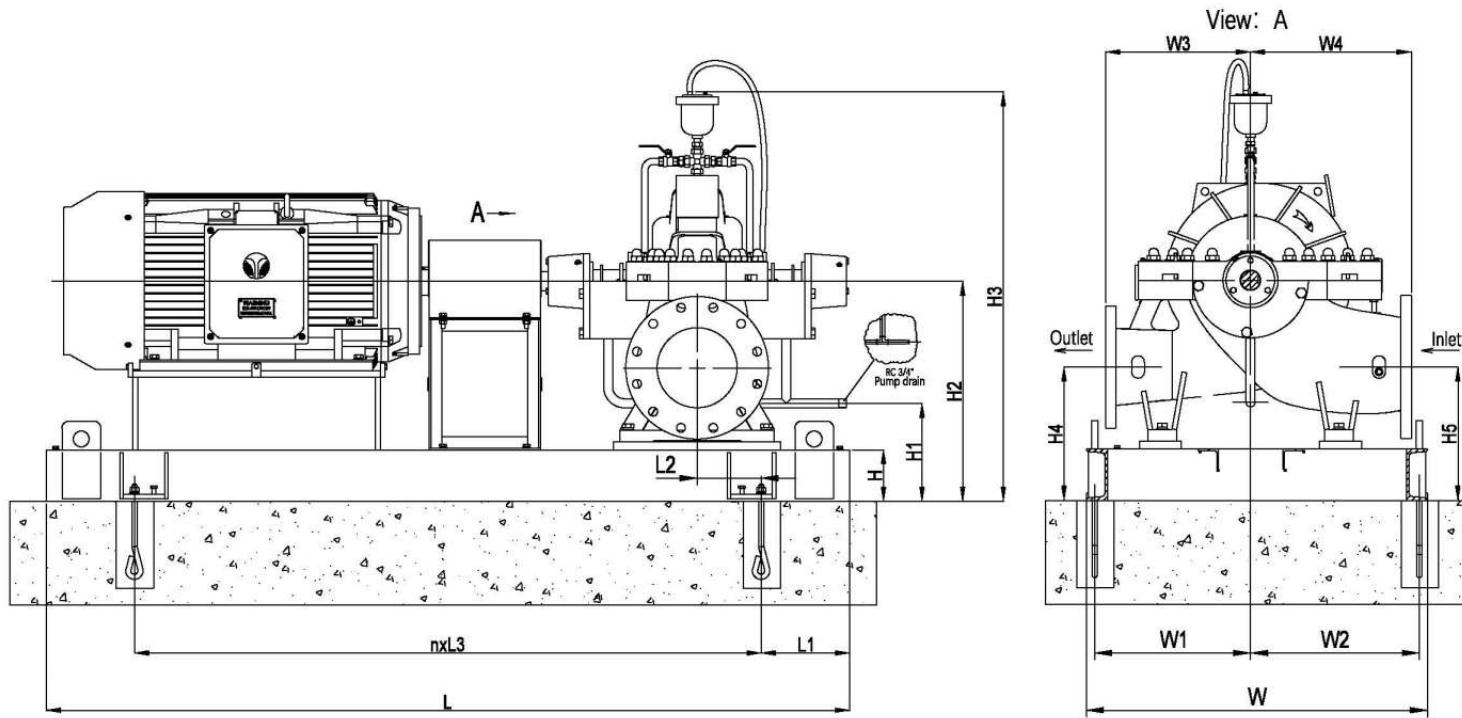
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OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA250-200-350



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC449TS250U2B	2400	300	200	3	600	1100	500	550	450	500	160	245	685	1275	415	415	8-M20x400	8-120x120x400
F-TXC449TS250U2B	2400	300	200	3	600	1100	500	550	450	500	160	245	685	1275	415	415	8-M20x400	8-120x120x400
F-TDC447TS300U2B	2400	300	200	3	600	1100	500	550	450	500	160	245	685	1275	415	415	8-M20x400	8-120x120x400
F-TDC447TS350U2B	2400	300	200	3	600	1100	500	550	450	500	160	245	685	1275	415	415	8-M20x400	8-120x120x400
F-TXC449TS300U2B	2400	300	200	3	600	1100	500	550	450	500	160	245	685	1275	415	415	8-M20x400	8-120x120x400
F-TDC449TS350U2B	2400	300	200	3	600	1100	500	550	450	500	160	245	685	1275	415	415	8-M20x400	8-120x120x400
F-TXC586/7TS350U2B	2700	300	200	3	700	1250	575	625	450	500	160	245	685	1275	415	415	8-M20x400	8-120x120x400
F-TDC449TS400U2B	2400	300	200	3	600	1100	500	550	450	500	160	245	685	1275	415	415	8-M20x400	8-120x120x400
F-TXC586/7TS400U2B	2700	300	200	3	700	1250	575	625	450	500	160	245	685	1275	415	415	8-M20x400	8-120x120x400
F-TXC586/7TS450U2B	2700	300	200	3	700	1250	575	625	450	500	160	245	685	1275	415	415	8-M20x400	8-120x120x400

The force and torque of the pipe						Flange specification											
Pump Flange	Unit	Axial Direction			ØD3	ØD2	ØD1	C	nxØK	ØD	ØD1	ØD2	ØD3	n	ØK	C	
		Fx	Fy	Fz													
Inlet (10 INCH)	Pound	1200	1500	1000													
Outlet (8 INCH)	Pound	850	1100	700													
Inlet (DN 250)	Newton	5340	6670	4450													
Outlet (DN 200)	Newton	3780	4890	3110													
Pump Flange	Unit	Axial Direction			ØD3	ØD2	ØD1	C	nxØK	ØD	ØD1	ØD2	ØD3	n	ØK	C	
		Mx	My	Mz													
Inlet (10 INCH)	Pound-Feet	3700	1800	2800													
Outlet (8 INCH)	Pound-Feet	2600	1300	1900													
Inlet (DN 250)	Newton-meter	5020	2440	3800													
Outlet (DN 200)	Newton-meter	3530	1760	2580													

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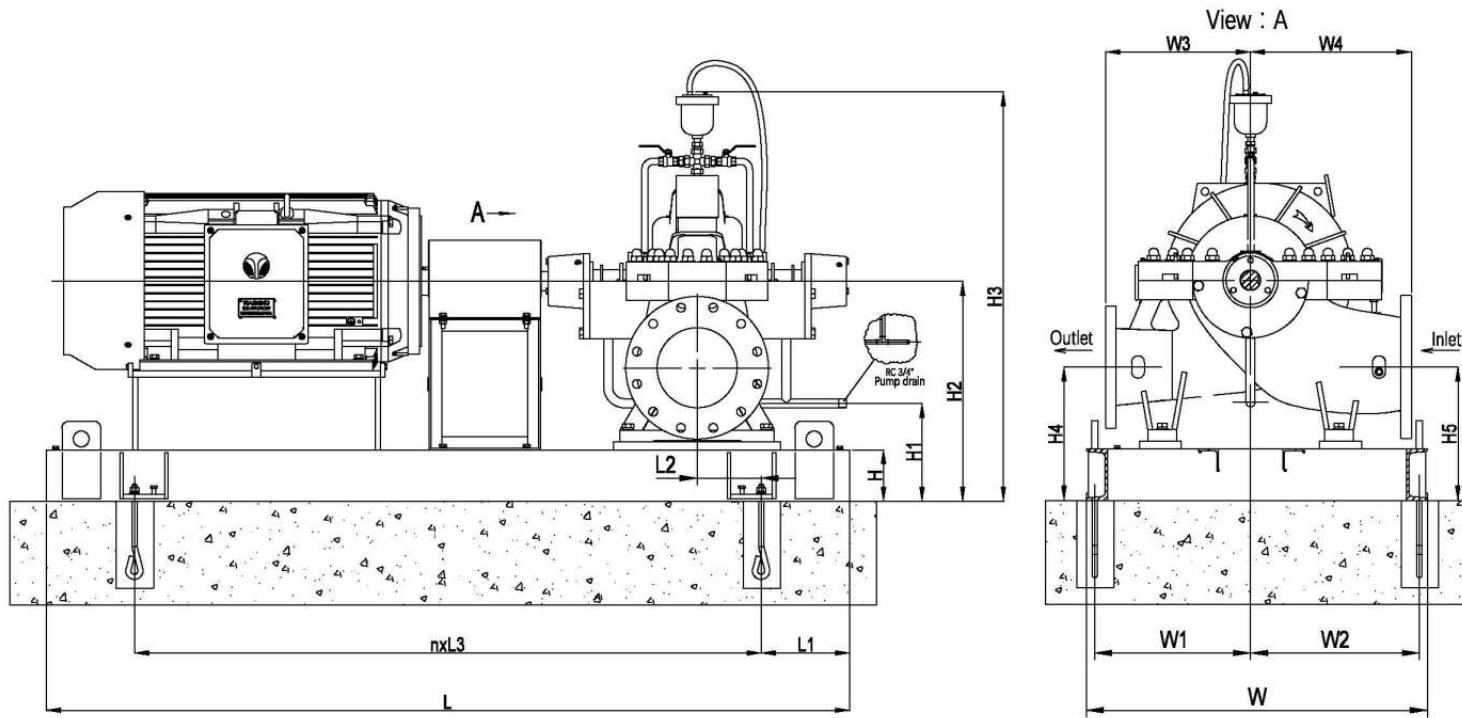
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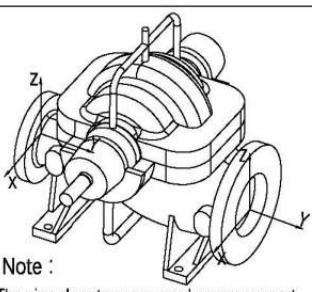
OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA250-200-450



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC447T250U4B	2300	250	200	3	600	1100	475	575	400	500	160	245	705	1300	425	425	8-M20x400	8-120x120x400
F-TXC449T250U4B	2400	300	150	3	600	1100	475	575	400	500	160	245	705	1300	425	425	8-M20x400	8-120x120x400
F-TDC449T300U4B	2300	250	200	3	600	1100	475	575	400	500	160	245	705	1300	425	425	8-M20x400	8-120x120x400
F-TXC449T300U4B	2400	300	150	3	600	1100	475	575	400	500	160	245	705	1300	425	425	8-M20x400	8-120x120x400
F-TDC449T350U4B	2300	250	200	3	600	1100	475	575	400	500	160	245	705	1300	425	425	8-M20x400	8-120x120x400
F-TXC586/77350U4B	2700	300	150	3	700	1200	475	675	400	500	160	245	705	1300	425	425	8-M20x400	8-120x120x400

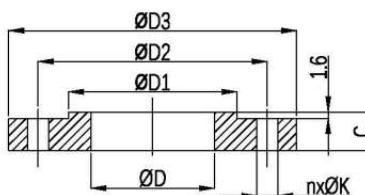
The force and torque of the pipe



Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (10 INCH)	Pound	1200	1500	1000
Outlet (8 INCH)	Pound	850	1100	700
Inlet (DN 250)	Newton	5340	6670	4450
Outlet (DN 200)	Newton	3780	4890	3110
Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (10 INCH)	Pound-Feet	3700	1800	2800
Outlet (8 INCH)	Pound-Feet	2600	1300	1900
Inlet (DN 250)	Newton-meter	5020	2440	3800
Outlet (DN 200)	Newton-meter	3530	1760	2580

Flange specification



ØD	ØD1	ØD2	ØD3	n	ØK	C
254.5	357.1	387.3	444.5	16	28.4	47.7
203.2	303.2	330.2	381.0	12	25.4	41.1

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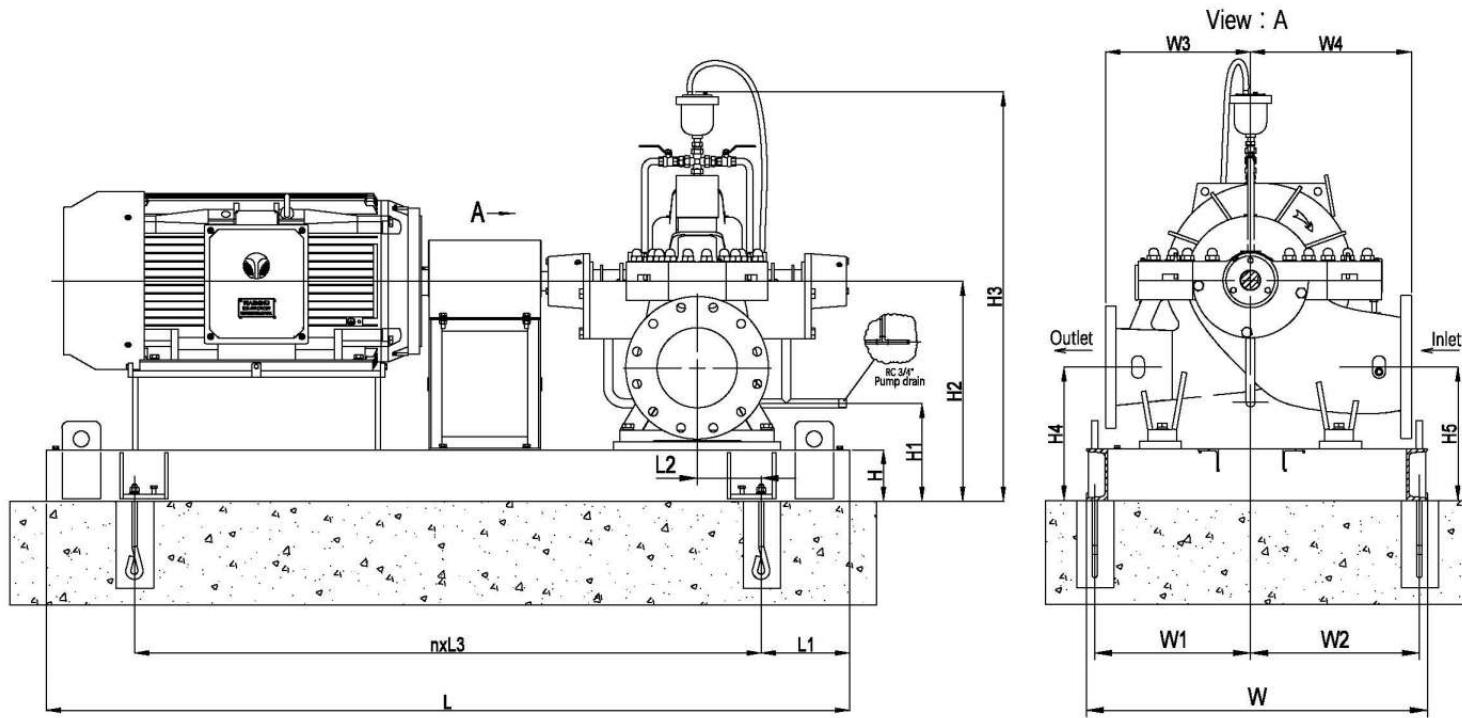
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OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA250-200-500



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC445T200U4B	2400	300	220	3	600	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC447T200U4B	2700	300	220	3	700	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TDC447T250U4B	2500	275	245	3	650	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC449T250U4B	2700	300	220	3	700	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TDC449T300U4B	2500	275	245	3	650	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC449T300U4B	2700	300	220	3	700	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TDC449T350U4B	2500	275	245	3	650	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC586/7T350U4B	3000	300	220	3	800	1300	575	675	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC586/7T400U4B	3000	300	220	3	800	1300	575	675	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC586/7T450U4B	3000	300	220	3	800	1300	575	675	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400

The force and torque of the pipe						Flange specification											
Pump Flange	Unit	Axial Direction			ØD3	ØD2	ØD1	C	nxØK	ØD	ØD1	ØD2	ØD3	n	ØK	C	
		Fx	Fy	Fz													
Inlet (10 INCH)	Pound	1200	1500	1000													
Outlet (8 INCH)	Pound	850	1100	700													
Inlet (DN 250)	Newton	5340	6670	4450													
Outlet (DN 200)	Newton	3780	4890	3110													
Pump Flange	Unit	Axial Direction			ØD3	ØD2	ØD1	C	nxØK	ØD	ØD1	ØD2	ØD3	n	ØK	C	
		Mx	My	Mz													
Inlet (10 INCH)	Pound-Feet	3700	1800	2800													
Outlet (8 INCH)	Pound-Feet	2600	1300	1900													
Inlet (DN 250)	Newton-meter	5020	2440	3800													
Outlet (DN 200)	Newton-meter	3530	1760	2580													

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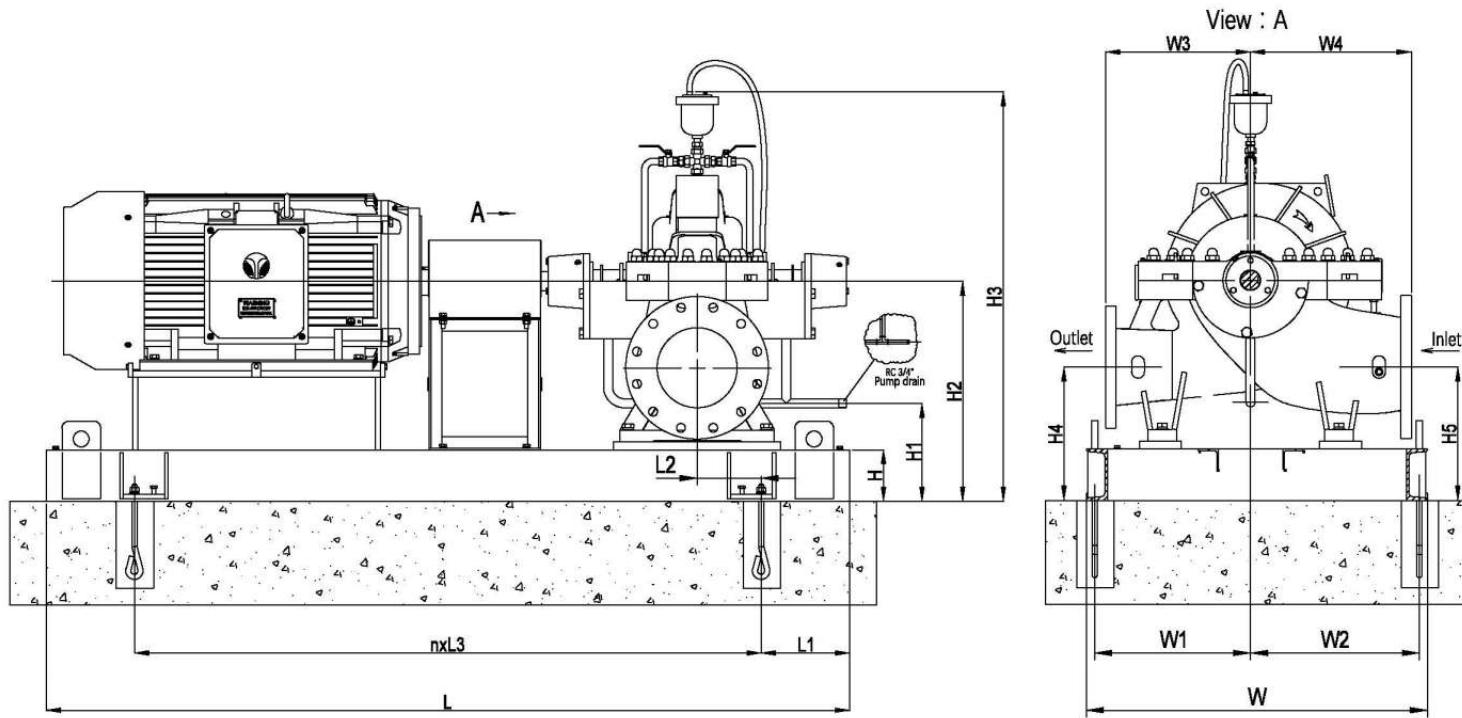
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Ahead Beyond

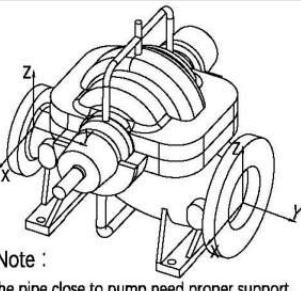
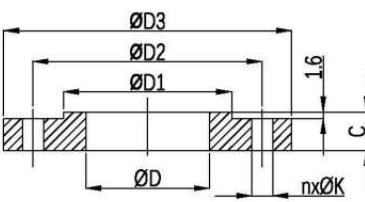


OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA250-200-500S



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC445T200U4B	2400	300	220	3	600	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC447T200U4B	2700	300	220	3	700	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TDC447T250U4B	2500	275	245	3	650	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC449T250U4B	2700	300	220	3	700	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TDC449T300U4B	2500	275	245	3	650	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC449T300U4B	2700	300	220	3	700	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TDC449T350U4B	2500	275	245	3	650	1100	475	575	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC586/7T350U4B	3000	300	220	3	800	1300	575	675	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC586/7T400U4B	3000	300	220	3	800	1300	575	675	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400
F-TXC586/7T450U4B	3000	300	220	3	800	1300	575	675	450	550	160	255	735	1315	425	425	8-M20x400	8-120x120x400

The force and torque of the pipe						Flange specification											
 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction														
			Fx	Fy	Fz												
	Inlet (10 INCH)	Pound	1200	1500	1000												
	Outlet (8 INCH)	Pound	850	1100	700												
	Inlet (DN 250)	Newton	5340	6670	4450												
	Outlet (DN 200)	Newton	3780	4890	3110												
	Pump Flange	Unit	Axial Direction														
			Mx	My	Mz												
	Inlet (10 INCH)	Pound-Feet	3700	1800	2800												
	Outlet (8 INCH)	Pound-Feet	2600	1300	1900	ANSI B16.1 250 LB RF	ØD	ØD1	ØD2	ØD3	n	ØK	C				
	Inlet (DN 250)	Newton-meter	5020	2440	3800	Inlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7				
	Outlet (DN 200)	Newton-meter	3530	1760	2580	Outlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1				

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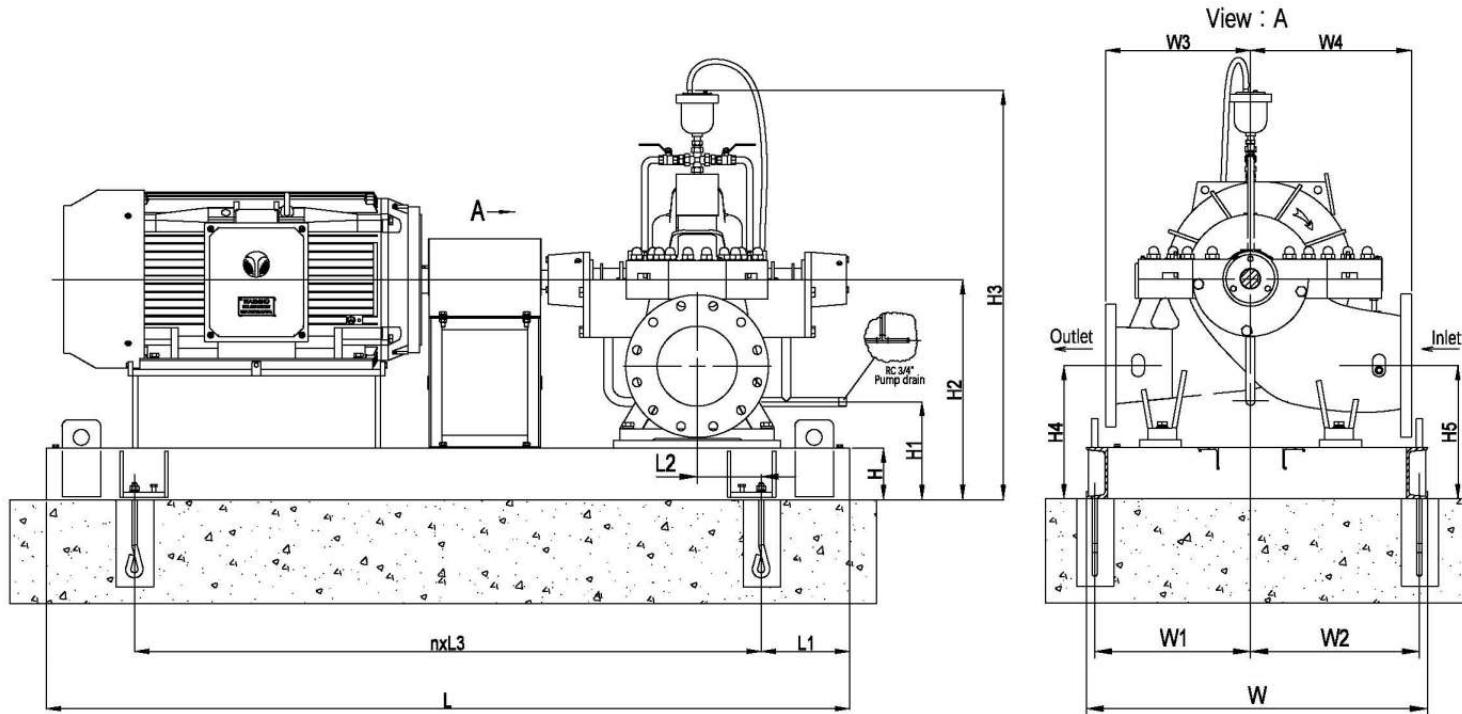
Looking ahead, going beyond expectations

Ahead Beyond

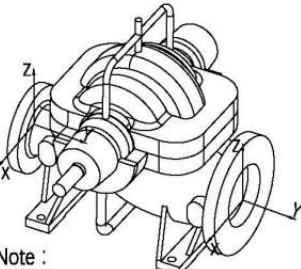


OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA250-200-600



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC449T300U4B	2500	275	275	3	650	1200	525	625	500	600	160	265	775	1420	425	425	8-M20x400	8-120x120x400
F-TXC449T300U4B	2700	300	250	3	700	1200	525	625	500	600	160	265	775	1420	425	425	8-M20x400	8-120x120x400
F-TDC449T350U4B	2500	275	275	3	650	1200	525	625	500	600	160	265	775	1420	425	425	8-M20x400	8-120x120x400
F-TXC586/7T350U4B	3100	275	275	3	850	1300	525	725	500	600	160	265	775	1420	425	425	8-M20x400	8-120x120x400
F-TXC586/7T400U4B	3100	275	275	3	850	1300	525	725	500	600	160	265	775	1420	425	425	8-M20x400	8-120x120x400
TXC586/7T450U4B	3100	275	275	3	850	1300	525	725	500	600	160	265	775	1420	425	425	8-M20x400	8-120x120x400

The force and torque of the pipe						Flange specification											
 <p>Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.</p>	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	$\varnothing D$	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	n	$\varnothing K$	C				
			F_x	F_y	F_z												
	Inlet (10 INCH)	Pound	1200	1500	1000	Inlet 10 INCH	125.7	104.8	114.3	125.7	16	28.4	47.7				
	Outlet (8 INCH)	Pound	850	1100	700												
	Inlet (DN 250)	Newton	5340	6670	4450												
	Outlet (DN 200)	Newton	3780	4890	3110												
	Pump Flange	Unit	Axial Direction			Outlet 8 INCH	203.2	160	203.2	303.2	12	25.4	41.1				
			M_x	M_y	M_z												
	Inlet (10 INCH)	Pound-Feet	3700	1800	2800												
	Outlet (8 INCH)	Pound-Feet	2600	1300	1900												
	Inlet (DN 250)	Newton-meter	5020	2440	3800	Inlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7				
	Outlet (DN 200)	Newton-meter	3530	1760	2580	Outlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1				

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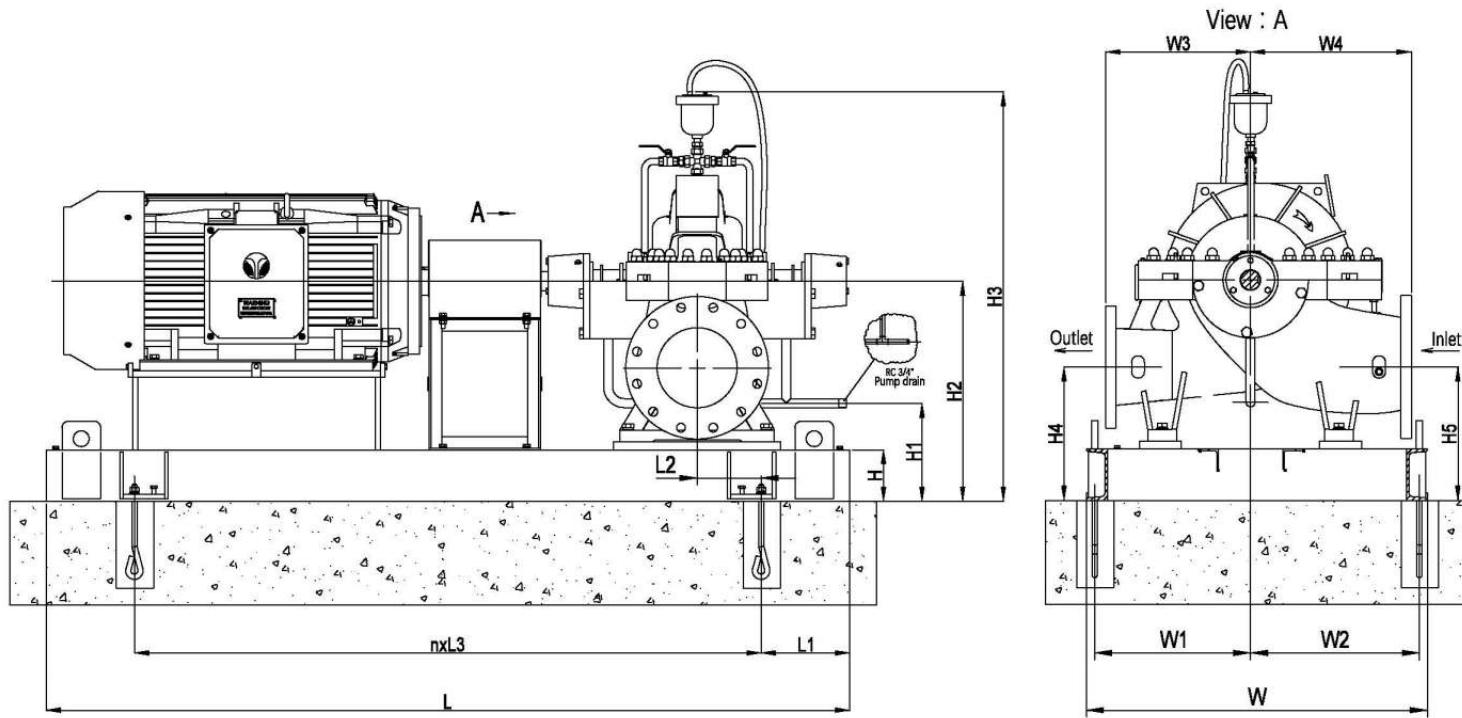
Looking ahead, going beyond expectations

Ahead Beyond

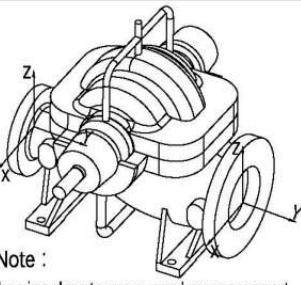
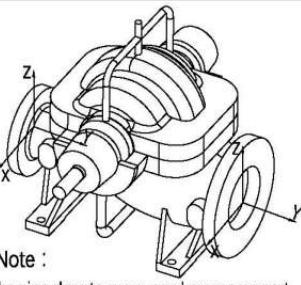


OUTLINE DIMENSIONS - SINGLE STAGE ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA300-250-500



Motor model	Dimensions (Unit:mm)															Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC449T350U4B	2700	240	390	3	740	1300	575	675	550	650	160	265	860	1507	430	430	8-M20x400	8-120x120x400
F-TXC586/7T350U4B	3100	275	355	3	850	1300	575	675	550	650	160	265	860	1507	430	430	8-M20x400	8-120x120x400
F-TXC586/7T400U4B	3100	275	355	3	850	1300	575	675	550	650	160	265	860	1507	430	430	8-M20x400	8-120x120x400
F-TXC586/7T450U4B	3100	275	355	3	850	1300	575	675	550	650	160	265	860	1507	430	430	8-M20x400	8-120x120x400
TXC586/7T500U4B	3100	275	355	3	850	1300	575	675	550	650	160	265	860	1507	430	430	8-M20x400	8-120x120x400

The force and torque of the pipe					Flange specification									
 <p>Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.</p>	Pump Flange	Unit	Axial Direction			ØD3	ØD2	ØD1	C	nxØK				
			Fx	Fy	Fz									
	Inlet (12 INCH)	Pound	1500	1800	1200									
	Outlet (10 INCH)	Pound	1200	1500	1000									
	Inlet (DN 300)	Newton	6670	8000	5340									
	Outlet (DN 250)	Newton	5340	6670	4450									
 <p>Note: The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.</p>	Pump Flange	Unit	Axial Direction			ØD	ØD1	ØD2	ØD3	n	ØK	C		
			Mx	My	Mz									
	Inlet (12 INCH)	Pound-Feet	4500	2200	3400									
	Outlet (10 INCH)	Pound-Feet	3700	1800	2800	ANSI B16.1 250 LB RF	ØD	ØD1	ØD2	ØD3	n	ØK	C	
	Inlet (DN 300)	Newton-meter	6100	2980	4610	Inlet 12 INCH	304.8	417.6	450.8	520.7	16	31.7	50.8	
	Outlet (DN 250)	Newton-meter	5020	2440	3800	Outlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7	

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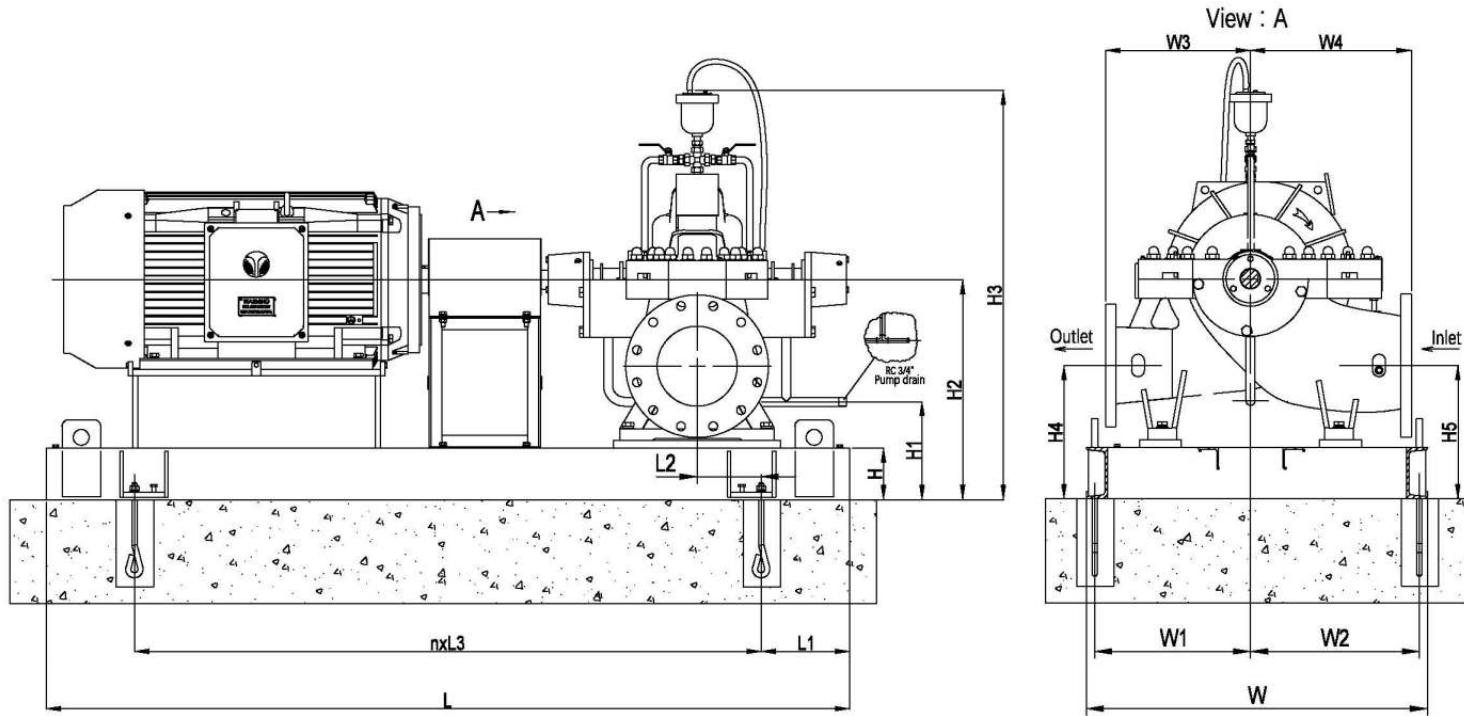
Ahead Beyond



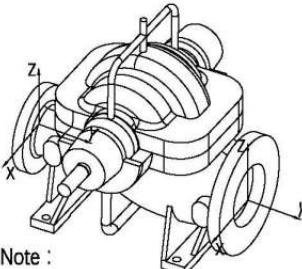
OUTLINE DIMENSIONS - SINGLE STAGE

ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA300-250-600



Motor model	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box
	L	L1	L2	n	L3	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5			
TXC586/7T500U4B	2700	240	390	3	740	1300	575	675	550	650	160	265	860	1507	430	430	8-M20x400	8-120x120x400	

The force and torque of the pipe							Flange specification																								
 <p>Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.</p>	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C																		
			Fx	Fy	Fz																										
	Inlet (12 INCH)	Pound	1500	1800	1200																										
	Outlet (10 INCH)	Pound	1200	1500	1000																										
	Inlet (DN 300)	Newton	6670	8000	5340																										
	Outlet (DN 250)	Newton	5340	6670	4450																										
	Pump Flange	Unit	Axial Direction																												
			Mx	My	Mz																										
	Inlet (12 INCH)	Pound-Feet	4500	2200	3400																										
	Outlet (10 INCH)	Pound-Feet	3700	1800	2800	ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C																		
	Inlet (DN 300)	Newton-meter	6100	2980	4610	Inlet 12 INCH	304.8	417.6	450.8	520.7	16	31.7	50.8																		
	Outlet (DN 250)	Newton-meter	5020	2440	3800	Outlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7																		

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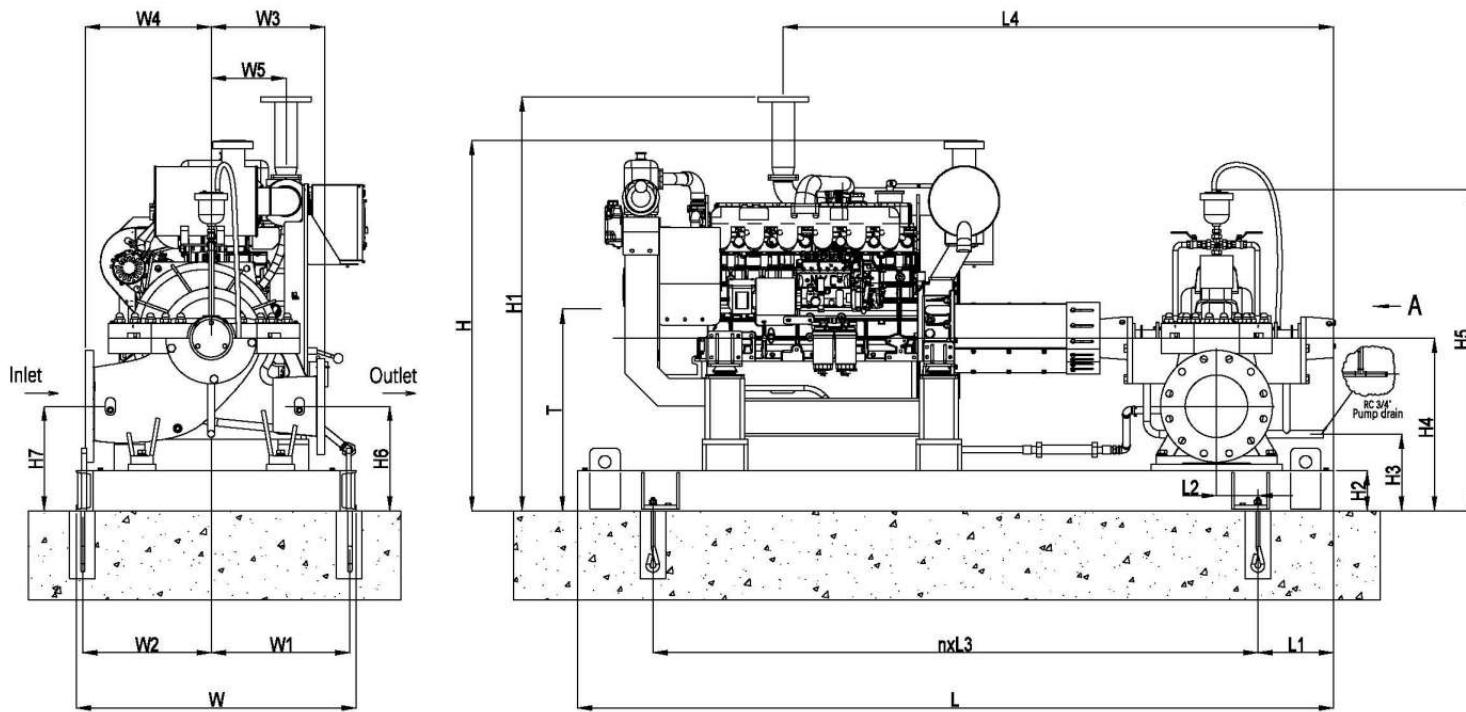


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA100-80-200



View : A



Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM4-90	2050	200	110	2	825	1465	1000	600	350	230	270	297	1125	1166	120	225	470	960	340	340	608	6-M16x300	6-120x120x300
NM4-90B	2050	200	110	2	825	1465	1000	600	350	230	270	297	1125	1166	120	225	470	960	340	340	608	6-M16x300	6-120x120x300

①: Oil pump benchmark

The force and torque of the pipe							Flange specification																					
 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction																									
			Fx	Fy	Fz																							
	Inlet (4 INCH)	Pound	320	400	260																							
	Outlet (3 INCH)	Pound	240	300	200																							
	Inlet (DN 100)	Newton	1420	1780	1160																							
	Outlet (DN 80)	Newton	1070	1330	890																							
	Pump Flange	Unit	Axial Direction																									
			Mx	My	Mz																							
	Inlet (4 INCH)	Pound-Feet	980	500	740																							
	Outlet (3 INCH)	Pound-Feet	700	350	530	ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	ØD3	n	ØK	C														
	Inlet (DN 150)	Newton-meter	1330	680	1000	Inlet 4 INCH	101.5	176.3	200.1	254.0	254.0	8	22.3	31.7														
	Outlet (DN 80)	Newton-meter	950	470	720	Outlet 3 INCH	76.2	144.5	168.1	209.1	209.1	8	22.3	28.4														

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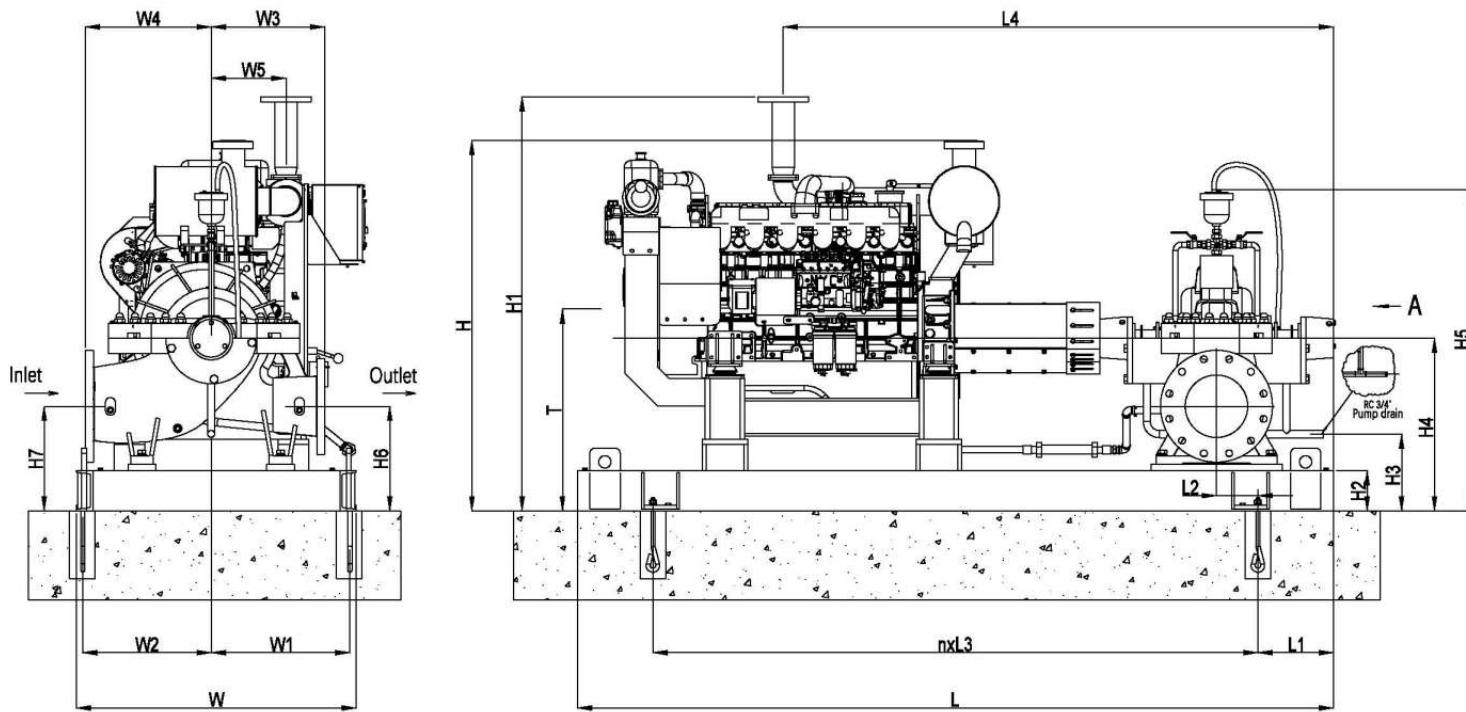
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA100-80-250



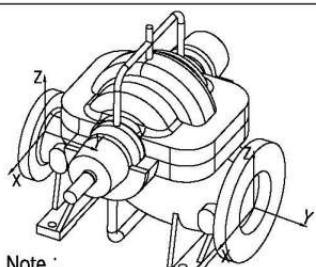
View : A



Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM4-90	2050	200	110	2	825	1465	1000	600	350	250	280	297	1125	1166	120	225	470	985	300	300	610	6-M16x300	6-120x120x300
NM4-90B	2050	200	110	2	825	1465	1000	600	350	250	280	297	1125	1166	120	225	470	985	340	340	610	6-M16x300	6-120x120x300
NM4-105	2200	250	60	2	850	1588	1000	600	350	250	280	294	1175	1212	120	225	470	985	340	340	580	6-M16x300	6-120x120x300
NM4-108	2200	250	60	2	850	1588	1000	600	350	250	280	294	1175	1212	120	225	470	985	340	340	580	6-M16x300	6-120x120x300
NM4-102B	2200	250	60	2	850	1415	1000	525	425	250	280	253	1413	1260	120	225	470	985	340	340	640	6-M16x300	6-120x120x300

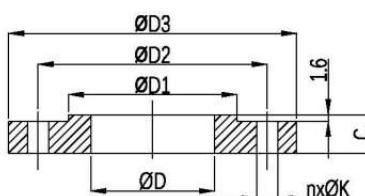
①: Oil pump benchmark

The force and torque of the pipe



Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (4 INCH)	Pound	320	400	260
Outlet (3 INCH)	Pound	240	300	200
Inlet (DN 100)	Newton	1420	1780	1160
Outlet (DN 80)	Newton	1070	1330	890
Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (4 INCH)	Pound-Feet	980	500	740
Outlet (3 INCH)	Pound-Feet	700	350	530
Inlet (DN 150)	Newton-meter	1330	680	1000
Outlet (DN 80)	Newton-meter	950	470	720

Flange specification



ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
Inlet 4 INCH	101.5	176.3	200.1	254.0	8	22.3	31.7
Outlet 3 INCH	76.2	144.5	168.1	209.1	8	22.3	28.4

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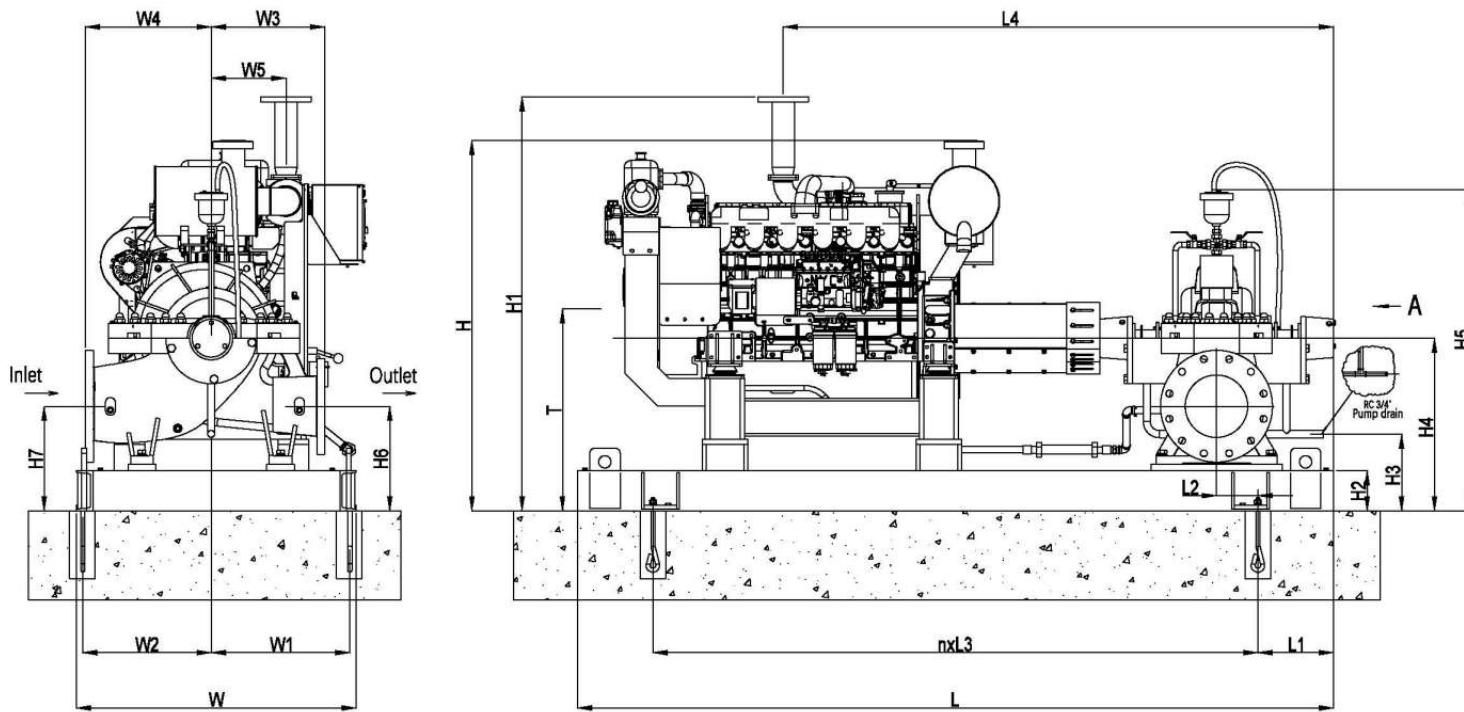
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA125-80-200



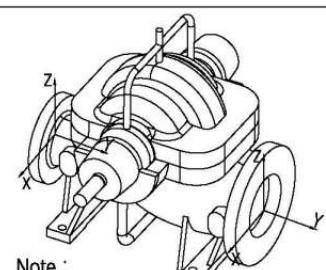
View : A



Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ⁽¹⁾		
NM4-90	2050	200	150	2	825	1455	1000	600	350	250	270	272	1120	1162	120	211	465	895	340	315	604	6-M16x300	6-120x120x300
NM4-90B	2050	200	150	2	825	1441	1000	600	350	250	270	222	1162	1162	120	211	465	895	340	315	604	6-M16x300	6-120x120x300

⁽¹⁾: Oil pump benchmark

The force and torque of the pipe

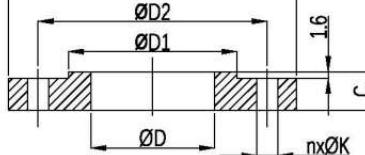


Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (5 INCH)	Pound	560	700	460
Outlet (3 INCH)	Pound	240	300	200
Inlet (DN 125)	Newton	2490	3110	2050
Outlet (DN 80)	Newton	1070	1330	890

Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (5 INCH)	Pound-Feet	1700	870	1300
Outlet (3 INCH)	Pound-Feet	700	350	530
Inlet (DN 125)	Newton-meter	2300	1180	1760
Outlet (DN 80)	Newton-meter	950	470	720

ANSI B16.1 250 Lb RF	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C
Inlet 5 INCH	128.3	211.0	234.9	279.4	8	22.3	35.0
Outlet 3 INCH	76.2	144.5	168.1	209.1	8	22.3	28.4



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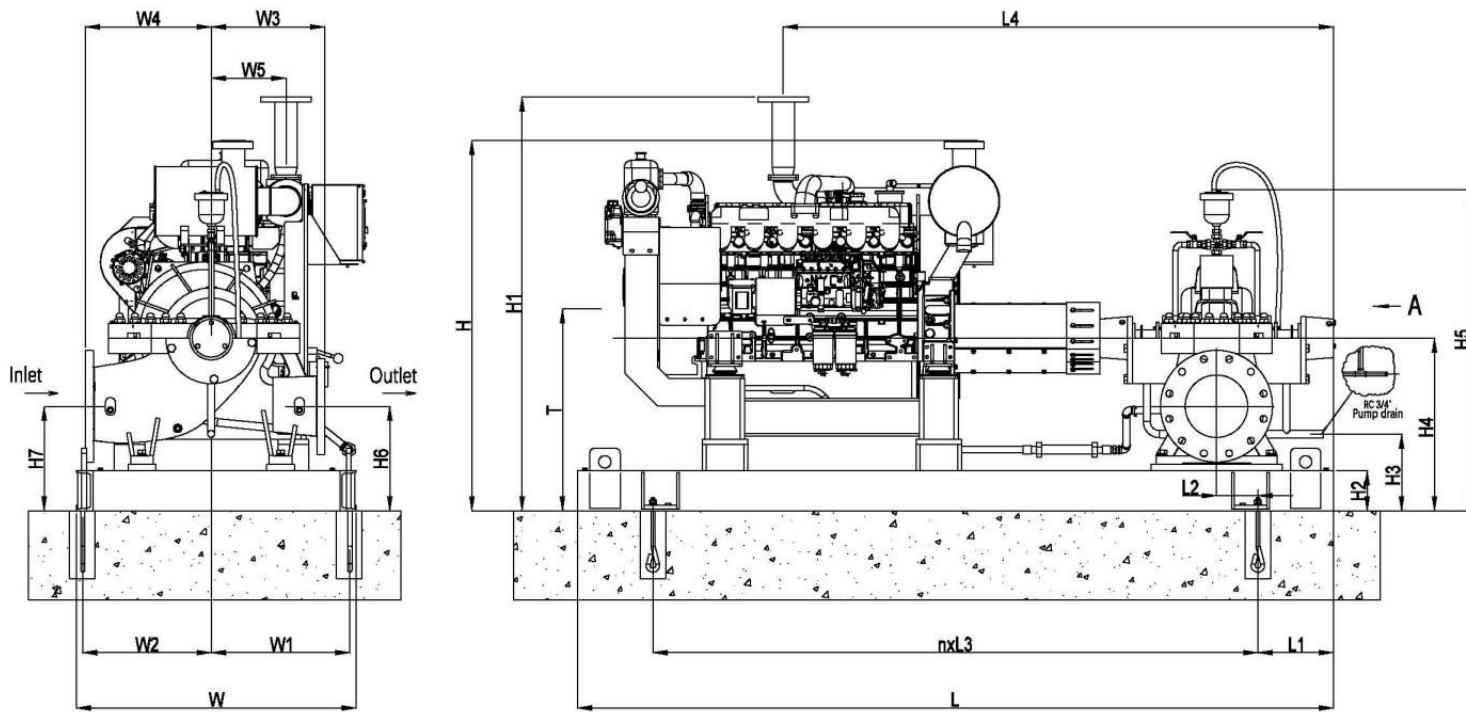
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA125-80-250



View : A



Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM4-90	2200	300	100	2	800	1569	1000	575	375	250	330	297	1120	1161	120	190	465	895	305	305	604	6-M16x300	6-120x120x300
NM4-105	2200	300	65	2	800	1600	1000	565	385	250	330	294	1159	1199	120	190	465	895	305	305	573	6-M16x300	6-120x120x300
NM4-108	2200	300	65	2	800	1600	1000	565	385	250	330	294	1159	1199	120	190	465	895	305	305	573	6-M16x300	6-120x120x300
NM4-102B	2200	300	65	2	800	1577	950	500	400	250	330	253	1409	1255	120	190	465	895	305	305	706	6-M16x300	6-120x120x300
NM4-108B	2300	160	205	3	660	1681	1000	575	375	250	330	327	1212	1362	140	210	485	915	325	325	608	8-M16x300	8-120x120x300
NM6-110B	2600	250	115	3	700	1753	950	525	375	250	330	270	1402	1320	140	285	560	990	400	400	639	8-M16x300	8-120x120x300
NM4-90B	2200	300	100	2	800	1556	1000	575	375	250	330	222	1384	1164	120	190	465	895	305	305	590	6-M16x300	6-120x120x300

①: Oil pump benchmark

The force and torque of the pipe

Flange specification

Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
		Fx	Fy	Fz								
Inlet (5 INCH)	Pound	560	700	460								
Outlet (3 INCH)	Pound	240	300	200								
Inlet (DN 125)	Newton	2490	3110	2050								
Outlet (DN 80)	Newton	1070	1330	890								
Pump Flange	Unit	Axial Direction										
		Mx	My	Mz								
Inlet (5 INCH)	Pound-Feet	1700	870	1300								
Outlet (3 INCH)	Pound-Feet	700	350	530								
Inlet (DN 125)	Newton-meter	2300	1180	1760	Inlet 5 INCH	128.3	211.0	234.9	279.4	8	22.3	35.0
Outlet (DN 80)	Newton-meter	950	470	720	Outlet 3 INCH	76.2	144.5	168.1	209.1	8	22.3	28.4

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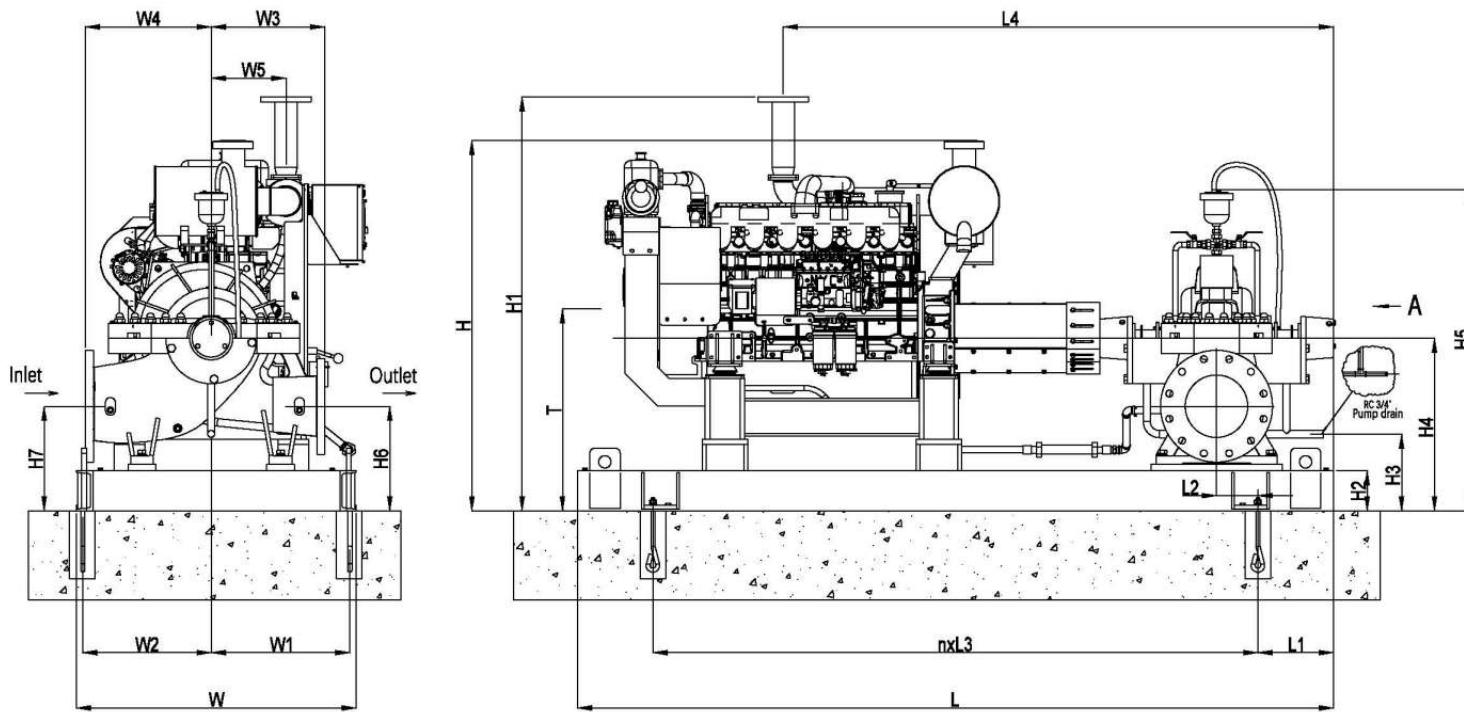
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA125-80-350



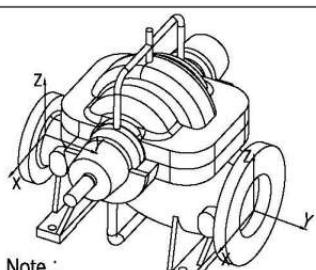
View : A



Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM4-108B	2300	160	210	3	660	1690	1000	575	375	330	360	327	1195	1368	140	240	490	1015	310	310	613	8-M16x300	8-120x120x300
NM6-110B	2600	160	210	3	760	1806	950	525	375	330	360	270	1402	1320	140	310	560	1085	380	380	639	8-M16x300	8-120x120x300
NM6-110E	2750	175	195	3	800	1969	1200	695	455	330	360	318	1658	1577	140	310	560	1085	380	380	666	8-M16x300	8-120x120x300
NM6-110D	2750	175	195	3	800	1969	1200	695	455	330	360	318	1658	1577	140	310	560	1085	380	380	666	8-M16x300	8-120x120x300
NM6-108E	2750	175	195	3	800	1887	1100	575	475	330	360	331	1494	1625	140	310	560	1085	380	380	725	8-M16x300	8-120x120x300

①: Oil pump benchmark

The force and torque of the pipe



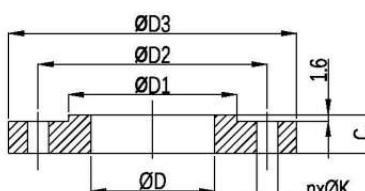
Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (5 INCH)	Pound	560	700	460
Outlet (3 INCH)	Pound	240	300	200
Inlet (DN 125)	Newton	2490	3110	2050
Outlet (DN 80)	Newton	1070	1330	890

Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (5 INCH)	Pound-Feet	1700	870	1300
Outlet (3 INCH)	Pound-Feet	700	350	530
Inlet (DN 125)	Newton-meter	2300	1180	1760
Outlet (DN 80)	Newton-meter	950	470	720

ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
Inlet 5 INCH	128.3	211.0	234.9	279.4	8	22.3	35.0
Outlet 3 INCH	76.2	144.5	168.1	209.1	8	22.3	28.4

Flange specification



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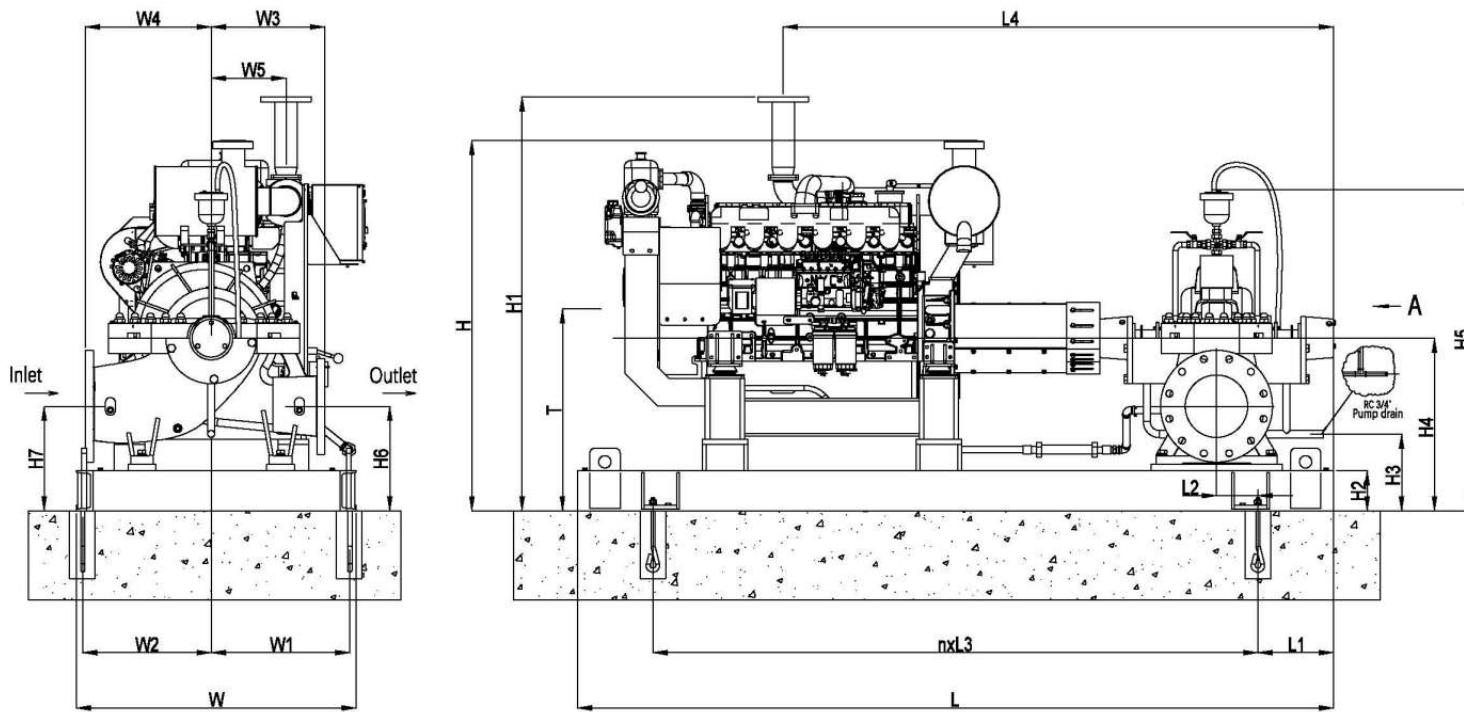
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA125-100-300



View : A



Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM4-105	2200	300	50	2	800	1590	970	560	360	290	330	294	1148	1228	140	200	485	958	315	315	594	6-M16x300	6-120x120x300
NM4-108	2200	300	50	2	800	1590	970	560	360	290	330	294	1148	1228	140	200	485	958	315	315	594	6-M16x300	6-120x120x300
NM4-102B	2200	300	70	2	800	1587	950	500	400	290	330	253	1429	1275	140	200	485	958	315	315	726	6-M16x300	6-120x120x300
NM4-108B	2300	250	120	3	600	1693	1000	575	375	290	330	327	1200	1362	140	200	485	958	315	315	608	8-M16x300	8-120x120x300
NM6-110B	2600	160	210	3	760	1763	950	525	375	290	330	270	1402	1320	140	275	560	1033	390	390	639	8-M16x300	8-120x120x300
NM6-110E	2750	175	195	3	800	1974	1200	695	455	290	330	318	1658	1577	140	275	560	1033	390	390	560	8-M16x300	8-120x120x300

①: Oil pump benchmark

The force and torque of the pipe

Flange specification

Pump Flange	Unit	Axial Direction			ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
		Fx	Fy	Fz								
Inlet (5 INCH)	Pound	560	700	460								
Outlet (4 INCH)	Pound	320	400	260								
Inlet (DN 125)	Newton	2490	3110	2050								
Outlet (DN 100)	Newton	1420	1780	1160								
Pump Flange	Unit	Axial Direction			Inlet 5 INCH	ØD	ØD1	ØD2	ØD3	n	ØK	C
		Mx	My	Mz								
Inlet (5 INCH)	Pound-Feet	1700	870	1300								
Outlet (4 INCH)	Pound-Feet	980	500	740								
Inlet (DN 125)	Newton-meter	2300	1180	1760								
Outlet (DN 100)	Newton-meter	1330	680	1000								
Note : The pipe close to pump need proper support, Gravity from the inlet and outlet lines shall not be borne by the pump.												

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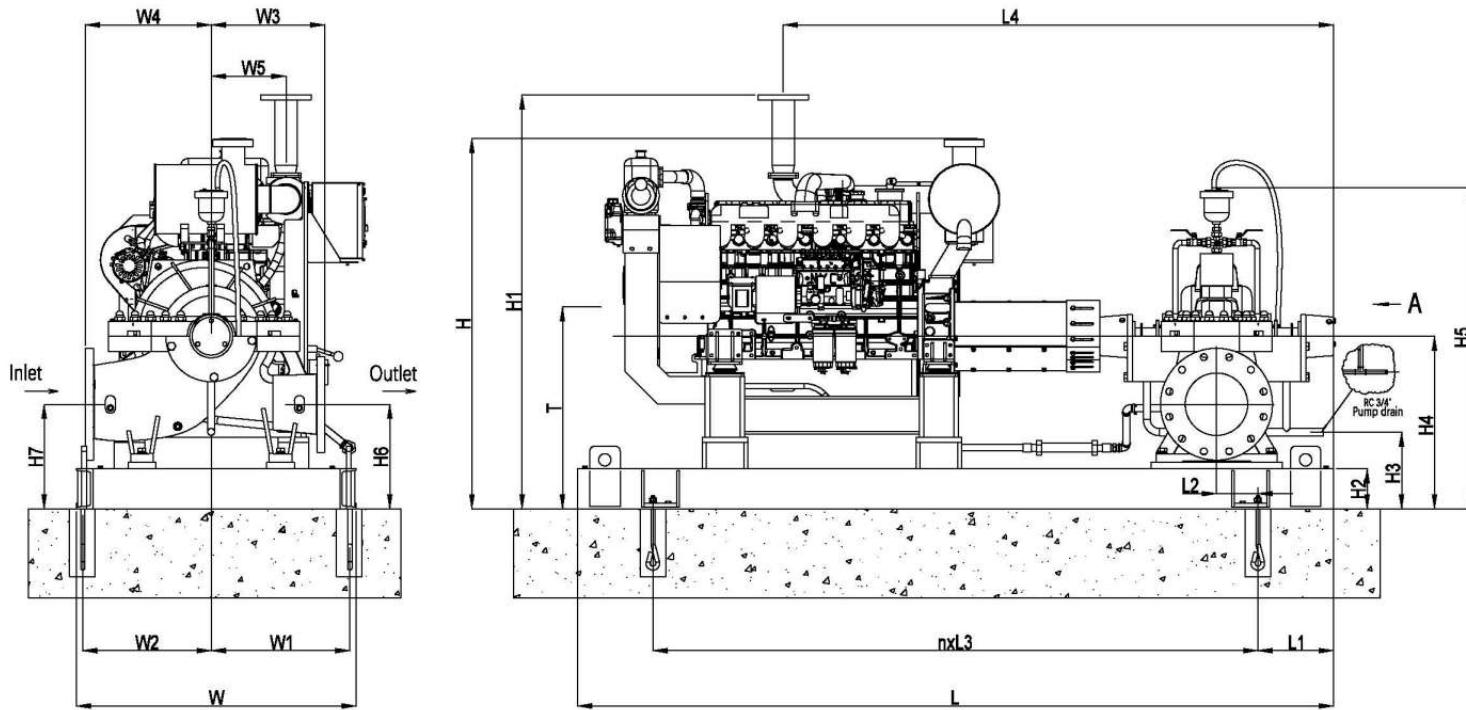


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA150-125-250



View : A



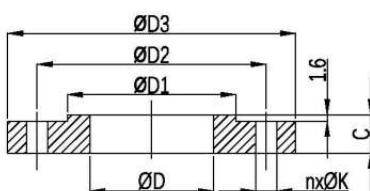
Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM4-105	2250	225	145	3	600	1619	1000	575	375	300	350	294	1222	1282	120	220	540	1020	340	340	648	8-M16x300	8-120x120x300
NM4-108	2300	250	150	3	600	1659	1000	585	365	300	350	260	1283	1283	120	220	540	1020	340	340	648	8-M16x300	8-120x120x300
NM4-102B	2300	250	150	3	600	1634	1000	525	525	300	350	253	1484	1330	120	220	540	1020	340	340		8-M16x300	8-120x120x300
NM4-108B	2300	250	120	3	600	1703	1050	580	420	300	350	327	1510	1438	140	240	560	1040	360	360	683	8-M16x300	8-120x120x300
NM6-110B	2700	300	70	3	700	1825	1050	525	475	300	350	270	1417	1402	140	240	560	1040	360	360	638	8-M16x300	8-120x120x300
NM6-110D	2800	200	250	3	800	2061	1200	675	475	300	350	318	1640	1577	140	240	560	1040	360	360	666	8-M16x300	8-120x120x300

①: Oil pump benchmark

The force and torque of the pipe

Flange specification

 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 Lb RF	$\emptyset D$	$\emptyset D1$	$\emptyset D2$	$\emptyset D3$	n	$\emptyset K$	C	
			Fx	Fy	Fz									
Inlet (6 INCH)	Pound		560	700	460									
Outlet (5 INCH)	Pound		560	700	460									
Inlet (DN 150)	Newton		2490	3110	2050									
Outlet (DN 125)	Newton		2490	3110	2050									
Pump Flange		Unit	Axial Direction			Inlet 6 INCH	$\emptyset D$	$\emptyset D1$	$\emptyset D2$	$\emptyset D3$	n	$\emptyset K$	C	
Inlet (6 INCH)			Mx	My	Mz									
Inlet (6 INCH)	Pound-Feet		1700	870	1300	Inlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5	
Outlet (5 INCH)	Pound-Feet		1700	870	1300	Outlet 5 INCH	128.3	211.0	234.9	279.4	8	22.3	35.0	
Inlet (DN 150)	Newton-meter		2300	1180	1760									
Outlet (DN 125)	Newton-meter		2300	1180	1760									



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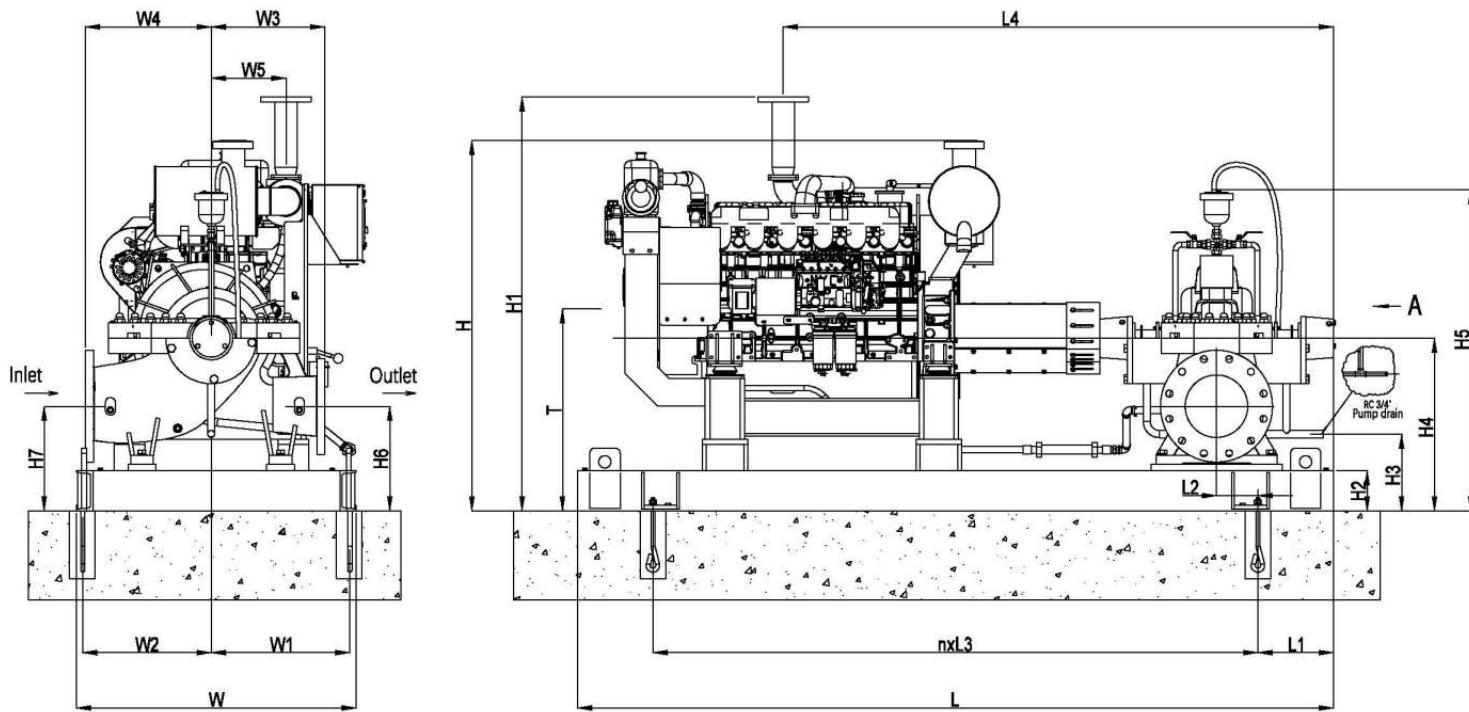


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA150-125-310



View : A



Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-110B	2700	210	190	3	760	1805	1050	545	455	350	400	270	1402	1320	140	220	560	1055	340	340	639	8-M16x300	8-120x120x300
NM6-110D/NM6-110E	2800	200	200	3	800	2016	1200	700	450	350	400	318	1680	1577	140	220	560	1055	340	340	666	8-M16x300	8-120x120x300

①: Oil pump benchmark

The force and torque of the pipe						Flange specification													
 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction																
			Fx	Fy	Fz														
			560	700	460														
			560	700	460														
			2490	3110	2050														
			2490	3110	2050														
	Pump Flange	Unit	Axial Direction																
			Mx	My	Mz														
			1700	870	1300														
			1700	870	1300	ANSI B16.1 250 Lb RF													
			2300	1180	1760	Inlet 6 INCH													
			2300	1180	1760	Outlet 5 INCH													
						ØD	ØD1	ØD2	ØD3	n	ØK	C							
						154.2	246.1	269.7	317.5	12	22.3	36.5							
						128.3	211.0	234.9	279.4	8	22.3	35.0							

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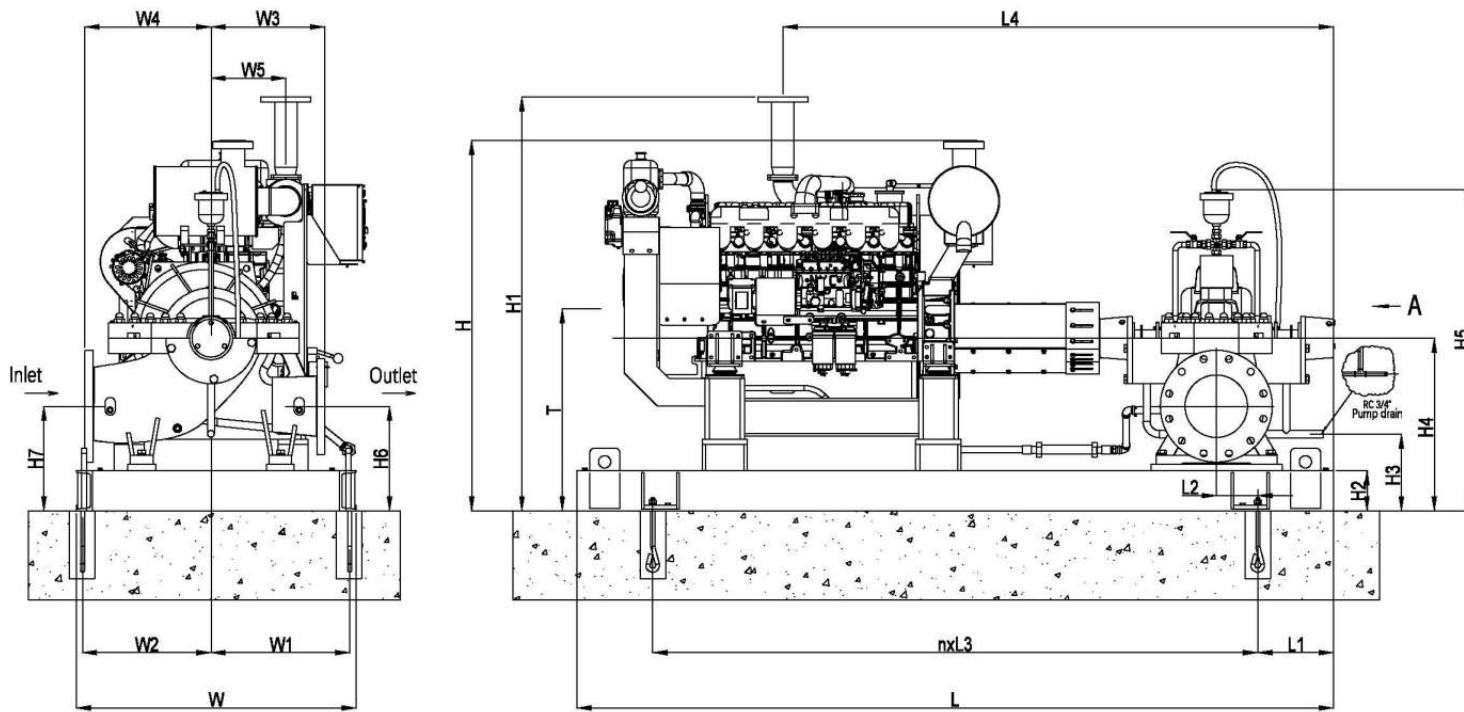


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA150-125-400



View : A



Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-110D/NM6-110E	2900	250	160	3	800	2098	1250	685	515	350	500	318	1718	1637	140	250	620	1155	335	335	726	8-M16x300	8-120x120x300
NM6-108E	2850	225	185	3	800	2016	1100	595	455	350	500	331	1685	1685	140	250	620	1155	335	335	785	8-M16x300	8-120x120x300

①: Oil pump benchmark

The force and torque of the pipe

 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction			Flange specification											
			Fx	Fy	Fz	ØD3	ØD2	ØD1	ØD	ØD1	ØD2	ØD3	n	ØK	C		
Inlet (6 INCH)	Pound	560	700	460													
Outlet (5 INCH)	Pound	560	700	460													
Inlet (DN 150)	Newton	2490	3110	2050													
Outlet (DN 125)	Newton	2490	3110	2050													
Pump Flange		Unit		Axial Direction			Flange specification										
Inlet (6 INCH)	Pound-Feet	1700	870	1300			ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C			
Outlet (5 INCH)	Pound-Feet	1700	870	1300			Inlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5			
Inlet (DN 150)	Newton-meter	2300	1180	1760			Outlet 5 INCH	128.3	211.0	234.9	279.4	8	22.3	35.0			
Outlet (DN 125)	Newton-meter	2300	1180	1760													

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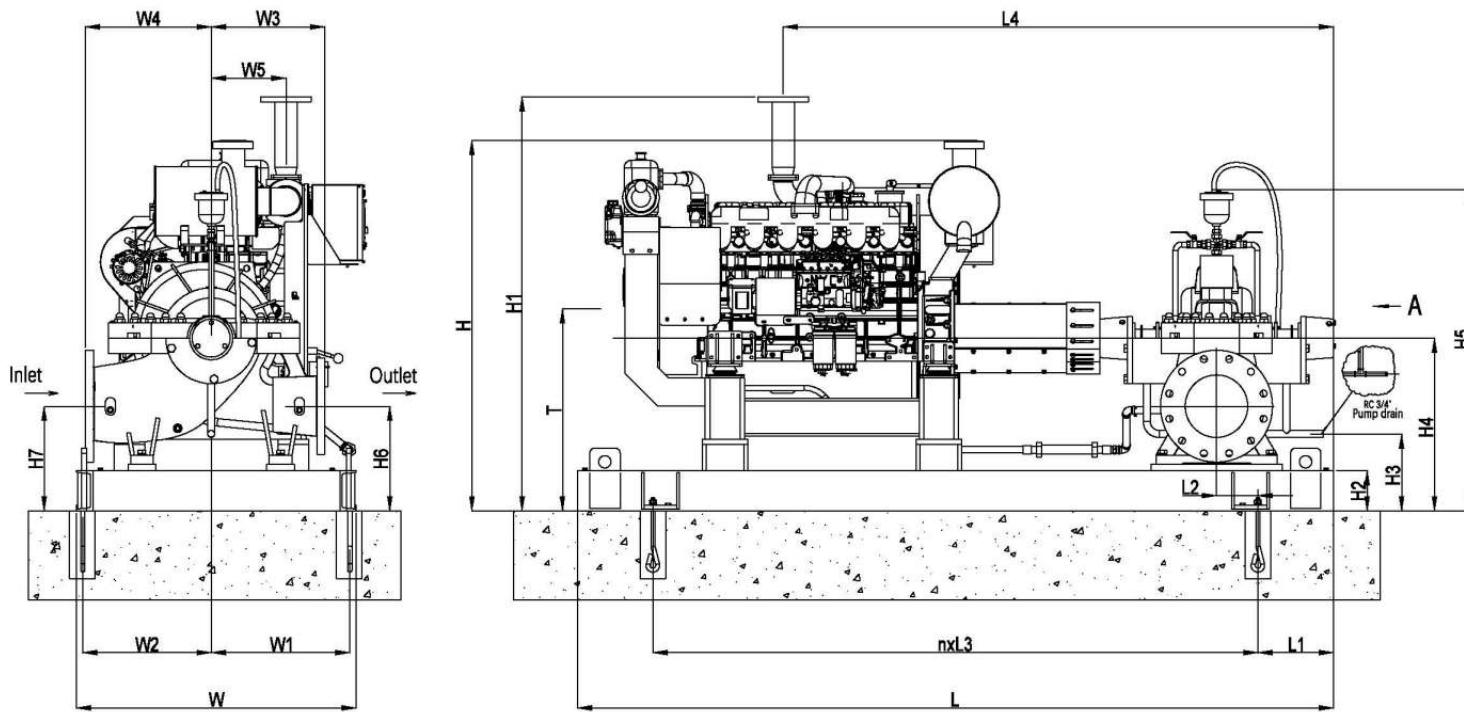


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA200-150-250



View : A



Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM4-102B	2300	190	210	3	640	1674	1000	525	425	300	400	253	1503	1350	140	210	560	1043	360	360	668	8-M16x300	8-120x120x300
NM4-105	2300	190	210	3	640	1674	1100	615	435	300	400	294	1288	1302	140	210	560	1043	360	360	668	8-M16x300	8-120x120x300
NM4-108	2300	190	210	3	640	1674	1100	615	435	300	400	294	1288	1302	140	210	560	1043	360	360	668	8-M16x300	8-120x120x300
NM4-108B	2400	150	250	3	700	1733	1100	615	435	300	400	327	1275	1438	140	210	560	1043	360	360	683	8-M16x300	8-120x120x300
NM6-110B	2800	200	200	3	800	1855	1100	575	475	300	400	270	1042	1317	140	210	560	1043	360	360	871	8-M16x300	8-120x120x300
NM6-110D	2800	200	200	3	800	2001	1200	675	475	300	400	318	1658	1578	140	210	560	1043	360	360	871	8-M16x300	8-120x120x300

①: Oil pump benchmark

The force and torque of the pipe

Flange specification

Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	$\emptyset D$	$\emptyset D_1$	$\emptyset D_2$	$\emptyset D_3$	n	$\emptyset K$	C
		Fx	Fy	Fz								
Inlet (8 INCH)	Pound	850	1100	700								
Outlet (6 INCH)	Pound	560	700	460								
Inlet (DN 200)	Newton	3780	4890	3110								
Outlet (DN 150)	Newton	2490	3110	2050								
Pump Flange	Unit	Axial Direction			Mx	My	Mz					
Inlet (8 INCH)	Pound-Feet	2600	1300	1900								
Outlet (6 INCH)	Pound-Feet	1700	870	1300								
Inlet (DN 200)	Newton-meter	3530	1760	2580	Inlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1
Outlet (DN 150)	Newton-meter	2300	1180	1760	Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5

Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall not be borne by the pump.

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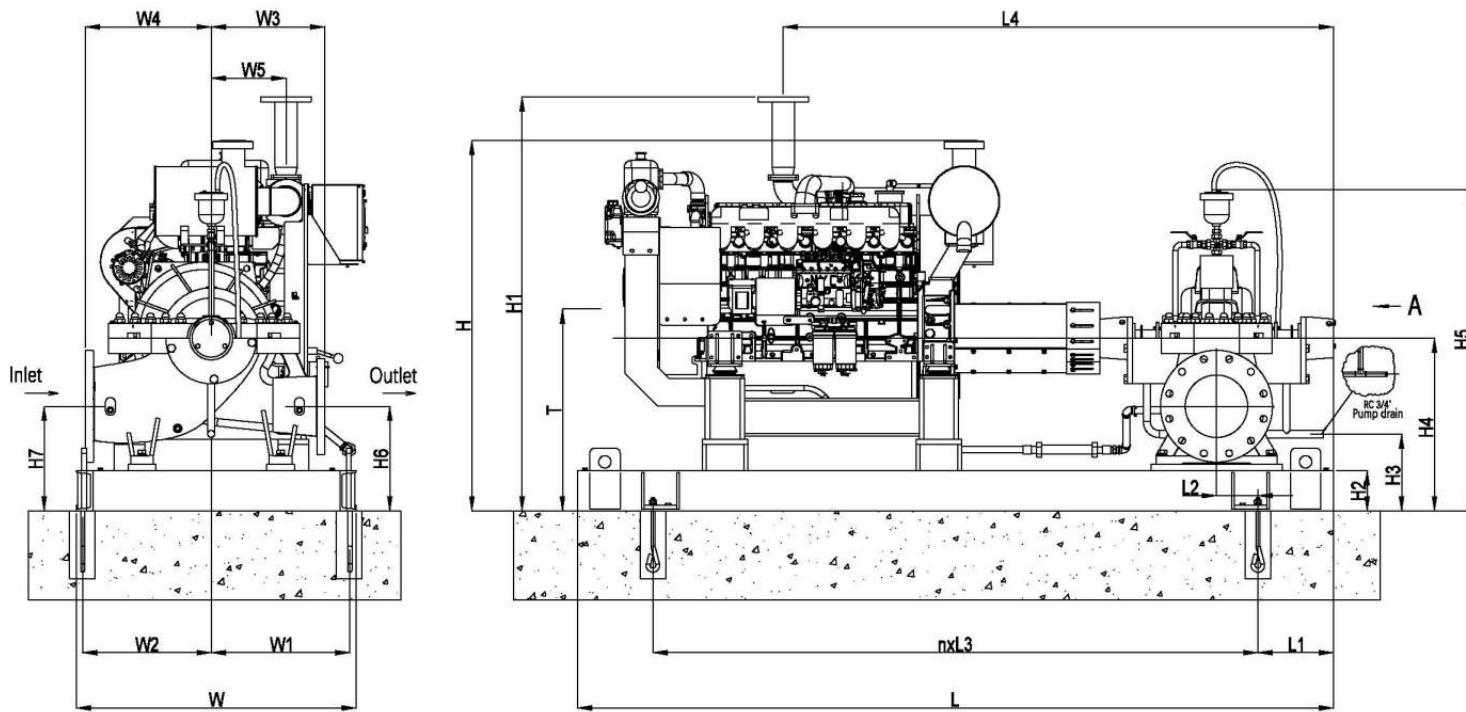
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA200-150-310



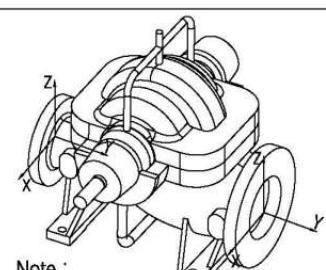
View : A



Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-110B	2800	200	220	3	800	1936	1050	535	465	350	425	270	1408	1325	140	215	565	1070	355	370	644	8-M16x300	8-120x120x300
NM6-110D	2900	250	170	3	800	2093	1200	685	465	350	425	318	1663	1582	140	215	565	1070	355	370	671	8-M16x300	8-120x120x300
NM6-108E	2900	250	170	3	800	2031	1100	595	455	350	425	331	1629	1499	140	215	565	1070	355	370	730	8-M16x300	8-120x120x300

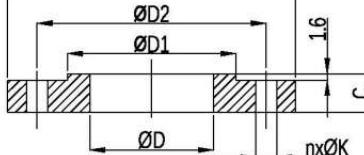
①: Oil pump benchmark

The force and torque of the pipe



Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (8 INCH)	Pound	850	1100	700
Outlet (6 INCH)	Pound	560	700	460
Inlet (DN 200)	Newton	3780	4890	3110
Outlet (DN 150)	Newton	2490	3110	2050
Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (8 INCH)	Pound-Feet	2600	1300	1900
Outlet (6 INCH)	Pound-Feet	1700	870	1300
Inlet (DN 200)	Newton-meter	3530	1760	2580
Outlet (DN 150)	Newton-meter	2300	1180	1760



Flange specification

ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
Inlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1
Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5

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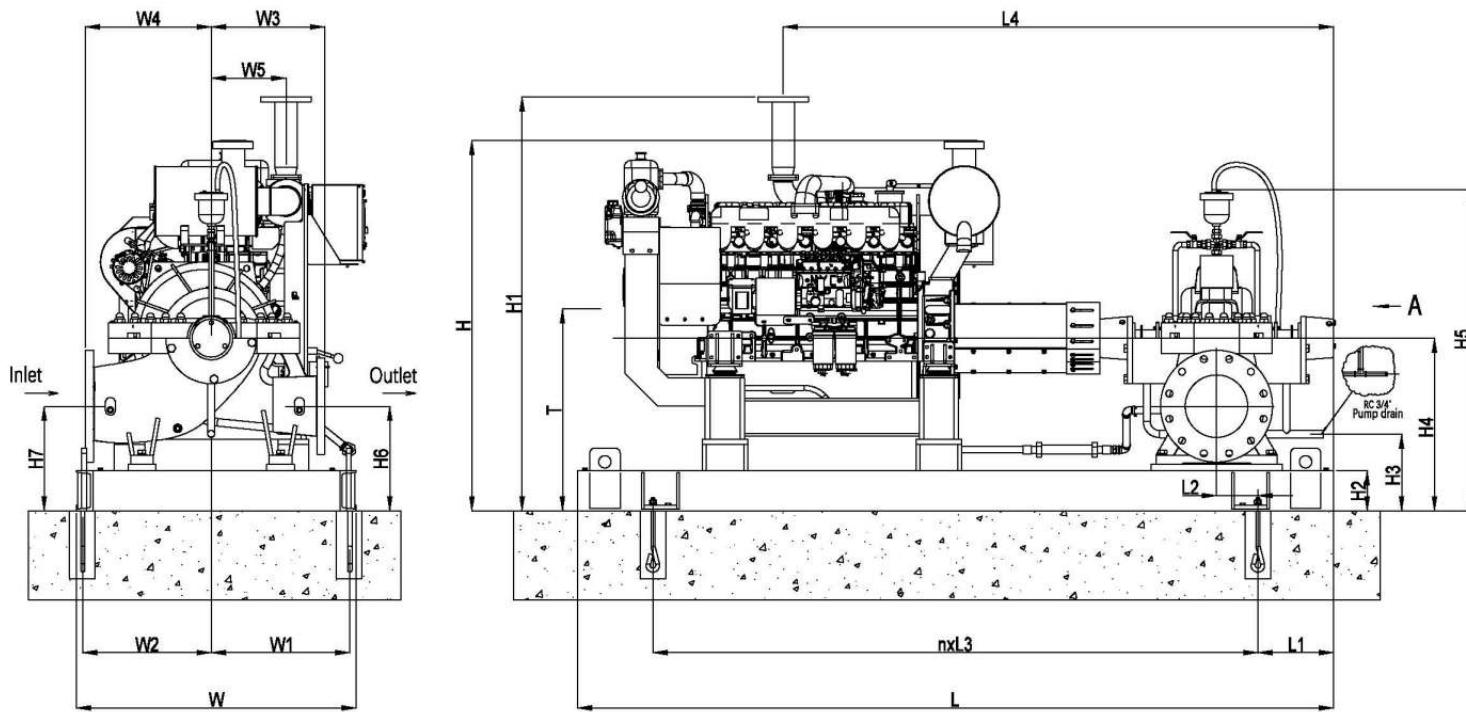


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA200-150-330



View : A

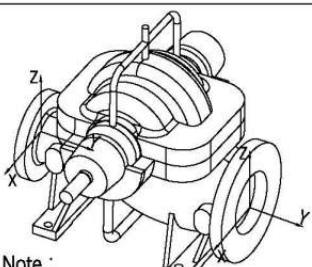


Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-110D/NM6-110E	2900	250	170	3	800	2133	1200	675	475	350	415	318	1718	1637	140	225	620	1145	390	390	730	8-M16x300	8-120x120x300
NM6-108E	2900	250	170	3	800	2031	1100	595	455	350	415	331	1685	1554	140	225	620	1145	390	390	785	8-M16x300	8-120x120x300
NM6-105B	2700	150	300	3	800	2132	1150	625	475	350	415	200	1678	1612	140	225	620	1145	390	390	854	8-M16x300	8-120x120x300

①: Oil pump benchmark

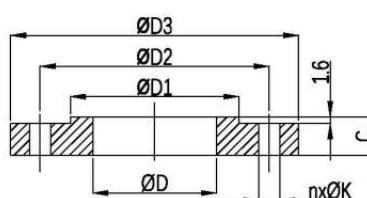
The force and torque of the pipe

Flange specification



Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (8 INCH)	Pound	850	1100	700
Outlet (6 INCH)	Pound	560	700	460
Inlet (DN 200)	Newton	3780	4890	3110
Outlet (DN 150)	Newton	2490	3110	2050
Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (8 INCH)	Pound-Feet	2600	1300	1900
Outlet (6 INCH)	Pound-Feet	1700	870	1300
Inlet (DN 200)	Newton-meter	3530	1760	2580
Outlet (DN 150)	Newton-meter	2300	1180	1760



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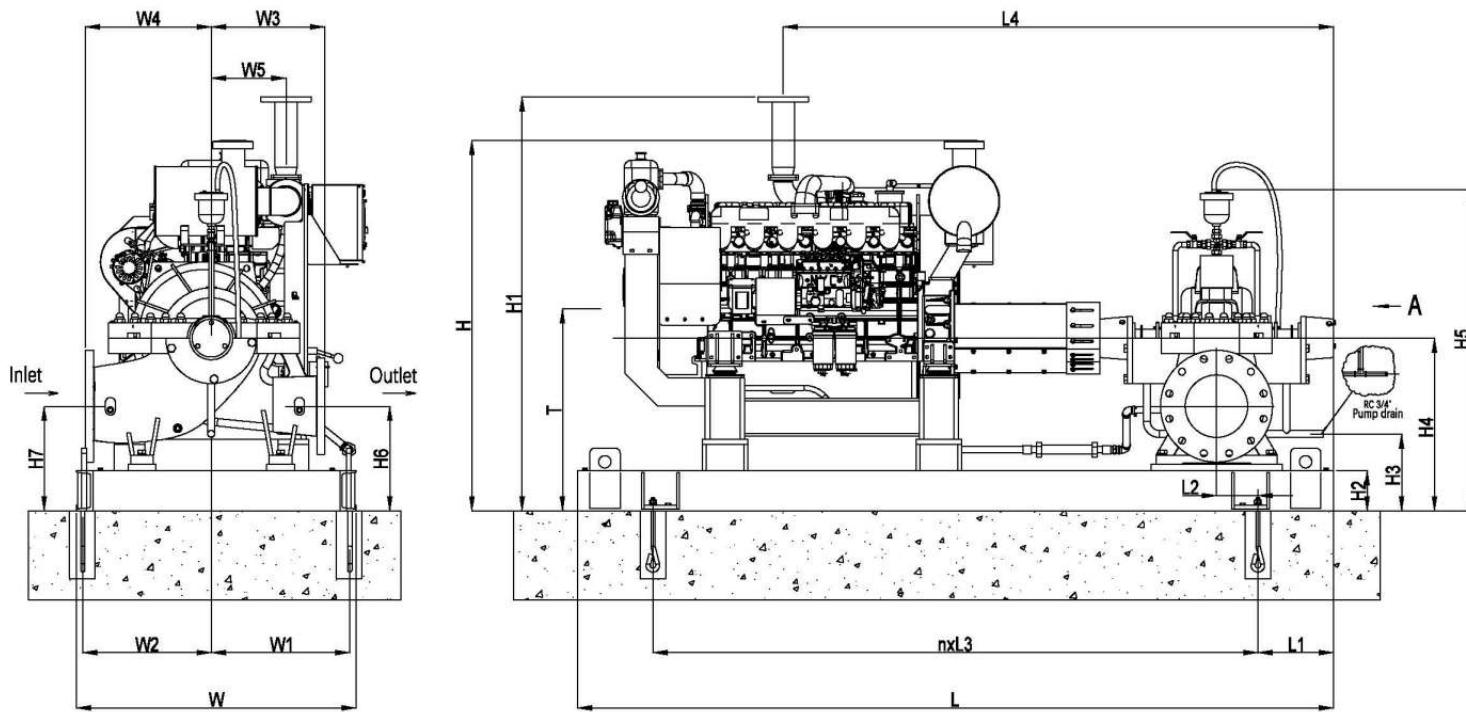
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA200-150-375



View : A

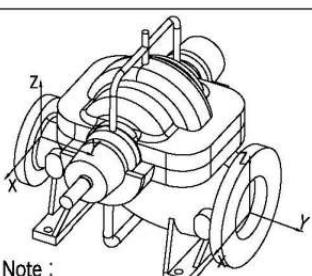


Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-105B	2900	250	170	3	800	2031	1100	595	455	340	420	331	1685	1554	140	225	620	1145	370	370	785	8-M16x300	8-120x120x300
NM6-114C	2800	200	220	3	800	2075	1200	695	455	340	420	261	1789	1622	140	225	620	1145	370	370	931	8-M16x300	8-120x120x300
NM6-114B	2800	200	220	3	800	1951	1200	695	455	340	420	299	1816	1632	140	225	620	1145	370	370	931	8-M16x300	8-120x120x300

①: Oil pump benchmark

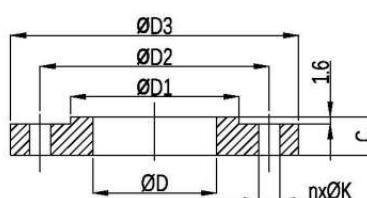
The force and torque of the pipe

Flange specification



Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (8 INCH)	Pound	850	1100	700
Outlet (6 INCH)	Pound	560	700	460
Inlet (DN 200)	Newton	3780	4890	3110
Outlet (DN 150)	Newton	2490	3110	2050
Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (8 INCH)	Pound-Feet	2600	1300	1900
Outlet (6 INCH)	Pound-Feet	1700	870	1300
Inlet (DN 200)	Newton-meter	3530	1760	2580
Outlet (DN 150)	Newton-meter	2300	1180	1760



ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
Inlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1
Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5

NOTE : ALL DIMENSIONS AND WEIGHTS ARE PRELIMINARY NOT FOR CONSTRUCTION USE. CERTIFIED AS BUILT DRAWINGS ARE AVAILABLE UPON REQUEST.

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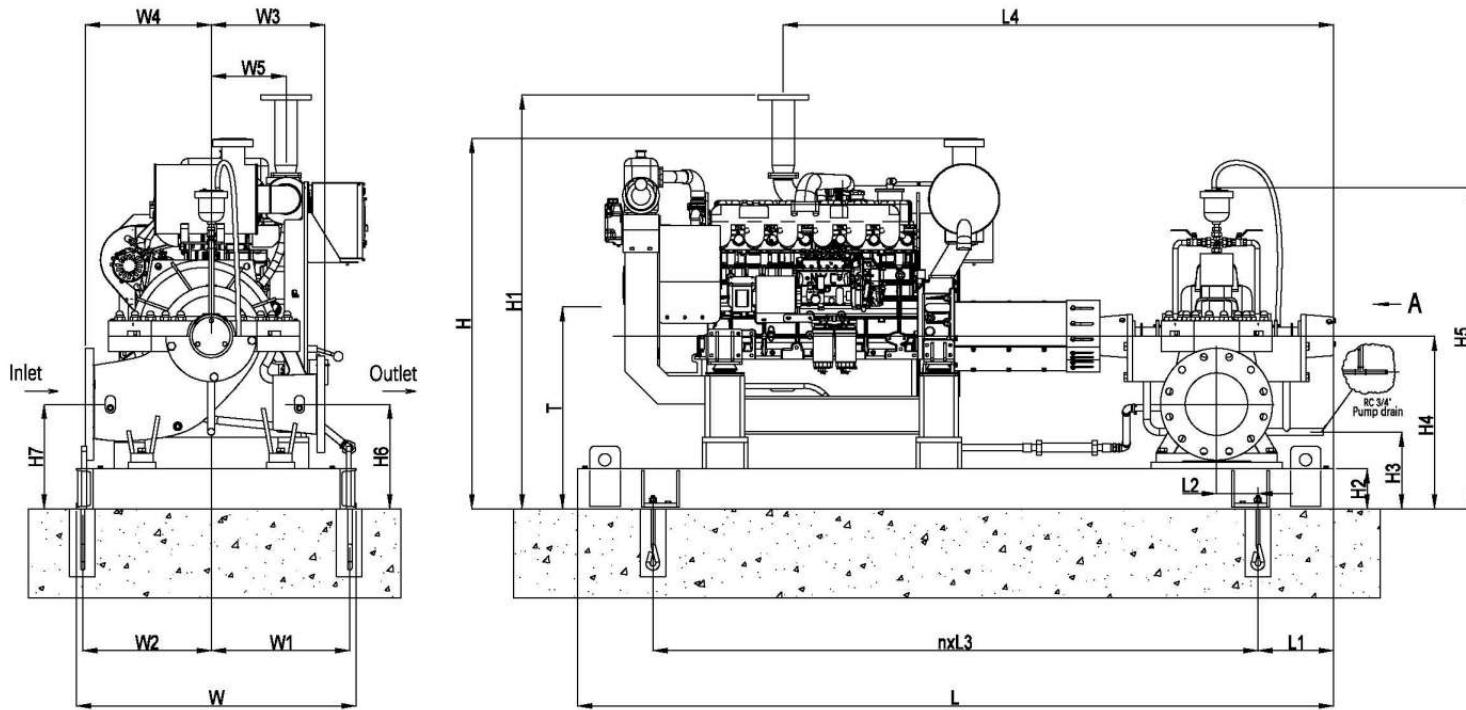


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA200-150-400



View : A



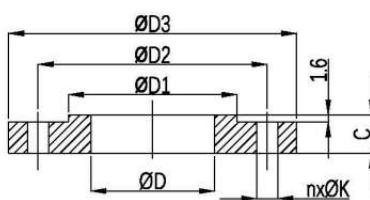
Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-114C	2700	225	175	3	750	2037	1200	675	475	370	450	261	1970	1612	140	225	620	1150	370	370	735	8-M16x300	8-120x120x300
NM6-114	2700	225	175	3	750	2020	1200	625	525	370	450	261	1650	1757	140	225	620	1150	370	370	930	8-M16x300	8-120x120x300
NM6-114B	2700	225	175	3	750	1914	1200	675	475	370	450	300	1816	1632	140	225	620	1150	370	370	935	8-M16x300	8-120x120x300
NM6-128B	3000	300	100	3	800	2298	1250	725	475	370	450	345	1629	1565	160	245	640	1170	390	390	900	8-M20x400	8-120x120x400
NM6-128	3000	300	100	3	800	2298	1200	575	575	370	450	340	1724	1598	140	225	620	1150	370	370	895	8-M16x300	8-120x120x300
NM8-128	2800	275	125	3	750	1234	1500	725	715	370	450	591	1893	1513	160	350	745	1265	495	495	1083	8-M20x400	8-120x120x400
NM6-105B	2700	150	270	3	800	2095	1250	575	525	370	450	200	1678	1612	140	225	620	1150	370	370	880	8-M16x300	8-120x120x300

①: Oil pump benchmark

The force and torque of the pipe

Flange specification

	Pump Flange	Unit	Axial Direction															
			Fx	Fy	Fz													
	Inlet (8 INCH)	Pound	850	1100	700													
	Outlet (6 INCH)	Pound	560	700	460													
	Inlet (DN 200)	Newton	3780	4890	3110													
	Outlet (DN 150)	Newton	2490	3110	2050													
	Pump Flange	Unit	Axial Direction															
			Mx	My	Mz													
	Inlet (8 INCH)	Pound-Feet	2600	1300	1900													
	Outlet (6 INCH)	Pound-Feet	1700	870	1300													
	Inlet (DN 200)	Newton-meter	3530	1760	2580													
	Outlet (DN 150)	Newton-meter	2300	1180	1760													
						ANSI B16.1 250 Lb RF												
							ØD	ØD1	ØD2	ØD3	n	ØK	C					



Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

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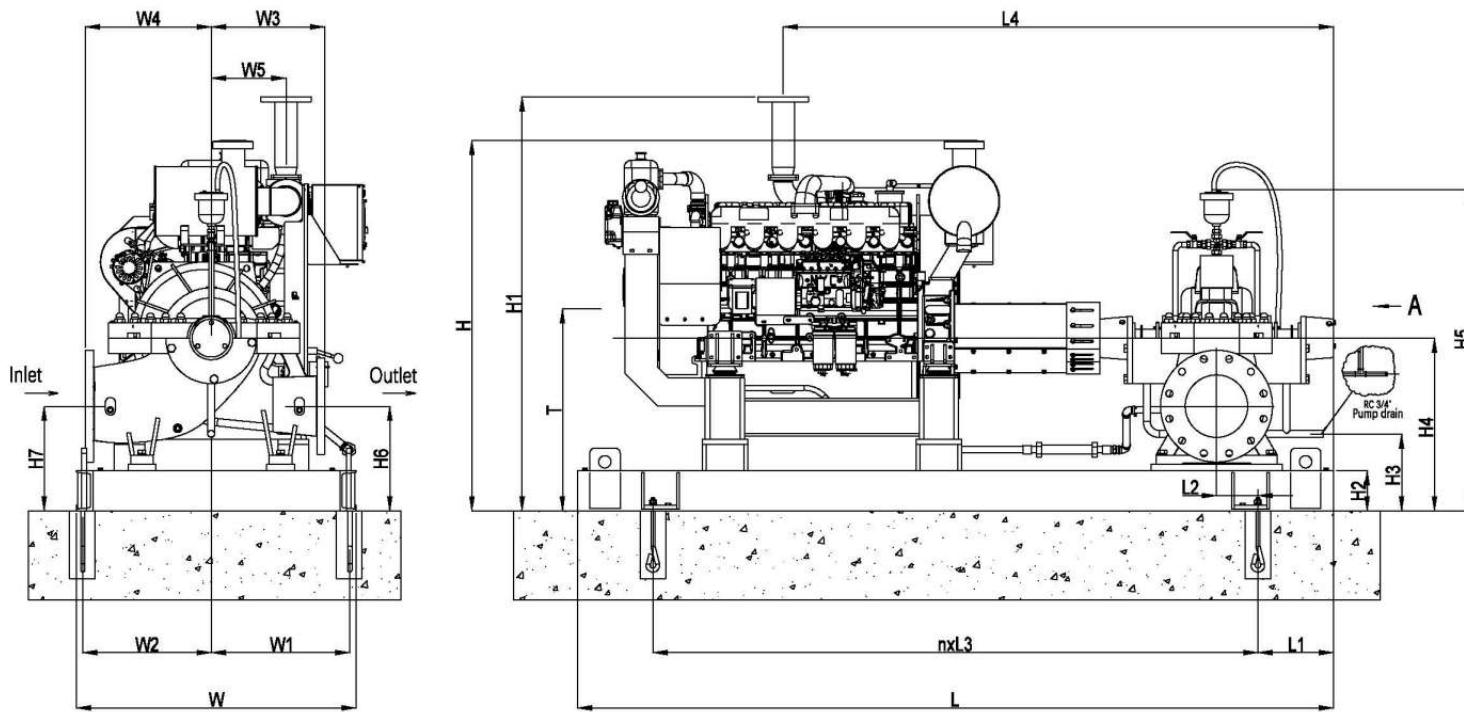


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA200-150-420



View : A



Diesel engine	Dimensions (Unit:mm)																			Anchor bolt	Anchor bolt box		
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-108E	2900	250	200	3	800	2051	1100	575	475	400	450	331	1554	1685	140	195	620	1170	340	370	785	8-M16x300	8-120x120x300
NM6-110D	2900	250	200	3	800	2133	1200	675	475	400	450	318	1700	1637	140	195	620	1170	340	370	725	8-M16x300	8-120x120x300

①: Oil pump benchmark

The force and torque of the pipe							Flange specification												
 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction																
			Fx	Fy	Fz														
	Inlet (8 INCH)	Pound	850	1100	700														
	Outlet (6 INCH)	Pound	560	700	460														
	Inlet (DN 200)	Newton	3780	4890	3110														
	Outlet (DN 150)	Newton	2490	3110	2050														
	Pump Flange	Unit	Axial Direction																
			Mx	My	Mz														
	Inlet (8 INCH)	Pound-Feet	2600	1300	1900														
	Outlet (6 INCH)	Pound-Feet	1700	870	1300	ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C						
	Inlet (DN 200)	Newton-meter	3530	1760	2580	Inlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1						
	Outlet (DN 150)	Newton-meter	2300	1180	1760	Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5						

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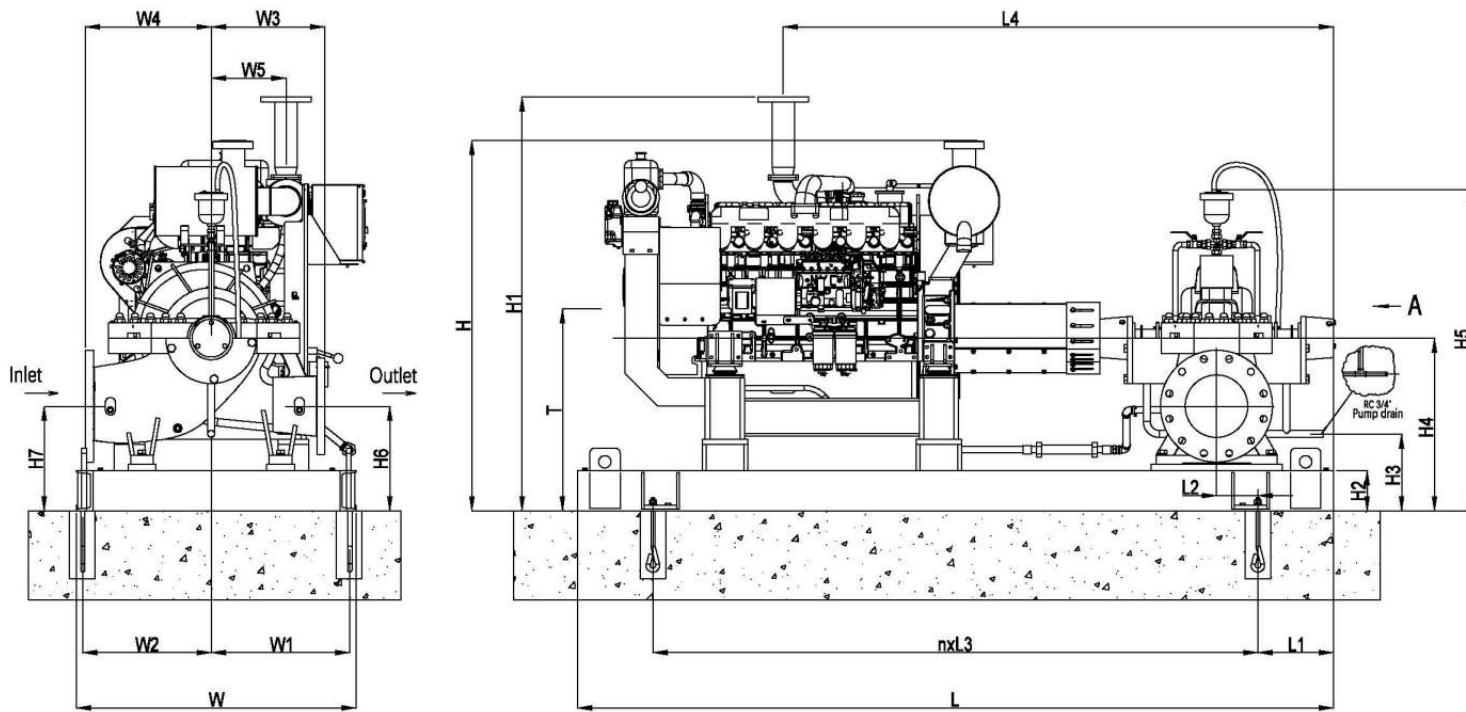


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA200-150-480



View : A



Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-114C	2900	250	220	3	800	2175	1250	700	500	420	500	261	1979	1612	140	225	635	1225	385	385	946	8-M16x300	8-120x120x300
NM6-114B	2900	250	220	3	800	2051	1250	675	525	420	500	299	1851	1667	140	225	635	1225	385	385	946	8-M16x300	8-120x120x300
NM6-135B	3200	300	170	4	650	2371	1300	700	550	420	500	371	1730	1747	160	245	655	1245	405	405	845	10-M20x400	10-120x120x400
NM6-135	3200	300	170	4	650	2371	1300	700	550	420	500	371	1730	1747	160	245	655	1245	405	405	845	10-M20x400	10-120x120x400
NM6-128	3100	275	195	3	850	2438	1300	625	625	420	500	340	1744	1618	140	225	635	1225	385	385	845	8-M16x300	8-120x120x300
NM6-105B	2800	200	270	3	800	2200	1200	625	525	420	500	200	1693	1621	140	225	635	1225	385	385	870	8-M16x300	8-120x120x300

①: Oil pump benchmark

The force and torque of the pipe

Flange specification

Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	$\emptyset D$	$\emptyset D1$	$\emptyset D2$	$\emptyset D3$	n	$\emptyset K$	C
		Fx	Fy	Fz								
Inlet (8 INCH)	Pound	850	1100	700								
Outlet (6 INCH)	Pound	560	700	460								
Inlet (DN 200)	Newton	3780	4890	3110								
Outlet (DN 150)	Newton	2490	3110	2050								
Pump Flange	Unit	Axial Direction			Mx	My	Mz					
Inlet (8 INCH)	Pound-Feet	2600	1300	1900								
Outlet (6 INCH)	Pound-Feet	1700	870	1300								
Inlet (DN 200)	Newton-meter	3530	1760	2580	Inlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1
Outlet (DN 150)	Newton-meter	2300	1180	1760	Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5

Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

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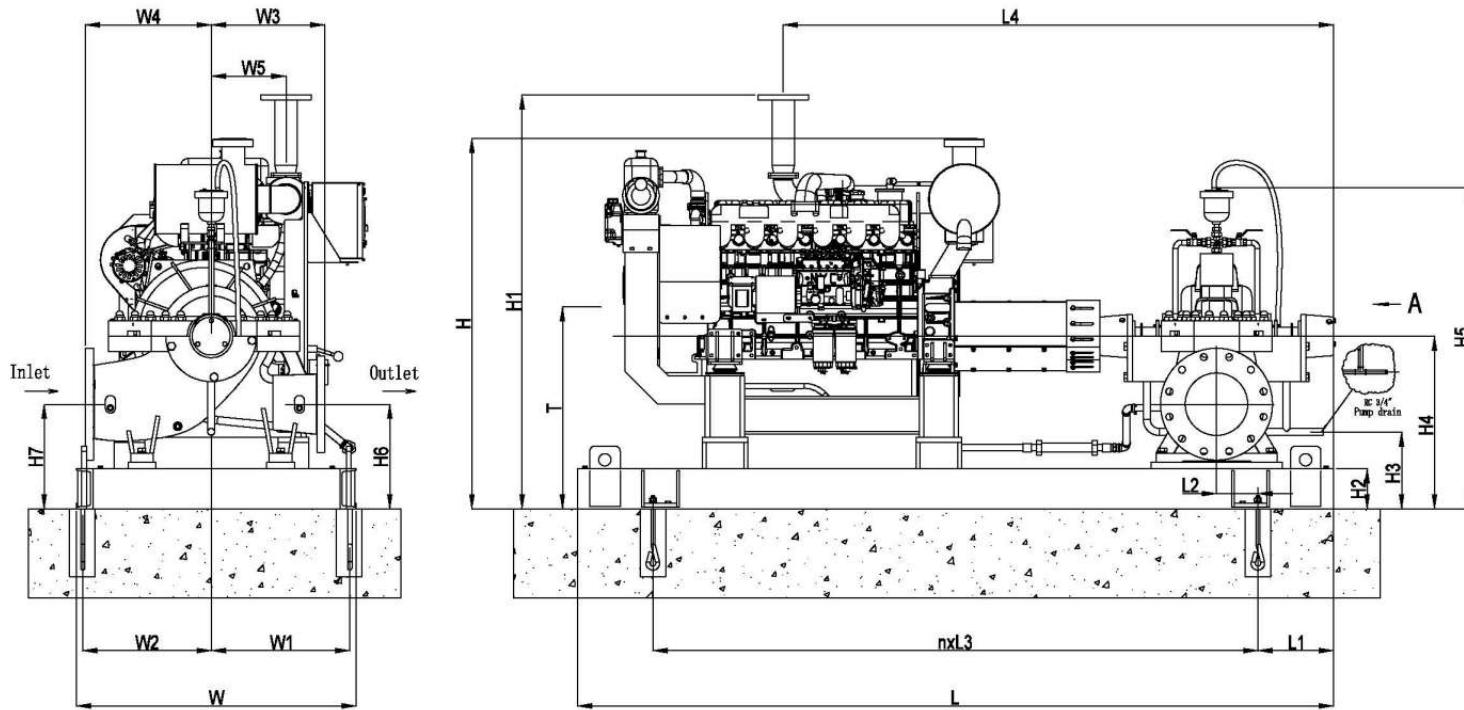


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA200-150-480GL



View: A



Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-114C	2900	250	220	3	800	2175	1250	700	500	420	500	261	1979	1612	140	225	635	1225	385	385	946	8-M16x300	8-120x120x300
NM6-114B	2900	250	220	3	800	2051	1250	675	525	420	500	299	1851	1667	140	225	635	1225	385	385	946	8-M16x300	8-120x120x300
NM6-135B	3200	300	170	4	650	2371	1300	700	550	420	500	371	1730	1747	160	245	655	1245	405	405	845	10-M20x400	10-120x120x400
NM6-135	3200	300	170	4	650	2371	1300	700	550	420	500	371	1730	1747	160	245	655	1245	405	405	845	10-M20x400	10-120x120x400
NM6-127	3000	300	145	3	800	2354	1300	700	550	420	500	307	1490	1747	160	245	655	1245	405	405	830	8-M20x400	8-120x120x400
NM6-128B	3150	300	170	3	850	2419	1350	750	550	420	500	340	1554	1618	160	245	655	1245	405	405	915	8-M20x400	8-120x120x400

①: Oil pump benchmark

The force and torque of the pipe							Flange specification												
 Note: The pipe close to pump need proper support, Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C						
			Fx	Fy	Fz														
			Inlet (8 INCH)	Pound	850	1100	700												
	Pump Flange	Unit	Outlet (6 INCH)	Pound	560	700	460												
			Inlet (DN 200)	Newton	3780	4890	3110												
			Outlet (DN 150)	Newton	2490	3110	2050												
		Axial Direction	Mx	My	Mz														
			Inlet (8 INCH)	Pound-Feet	2600	1300	1900												
			Outlet (6 INCH)	Pound-Feet	1700	870	1300												
		Inlet (DN 200)	Newton-meter	3530	1760	2580													
			Outlet (DN 150)	Newton-meter	2300	1180	1760												
			Inlet 8 INCH			203.2	303.2	330.2	381.0	381.0	381.0	381.0	381.0						

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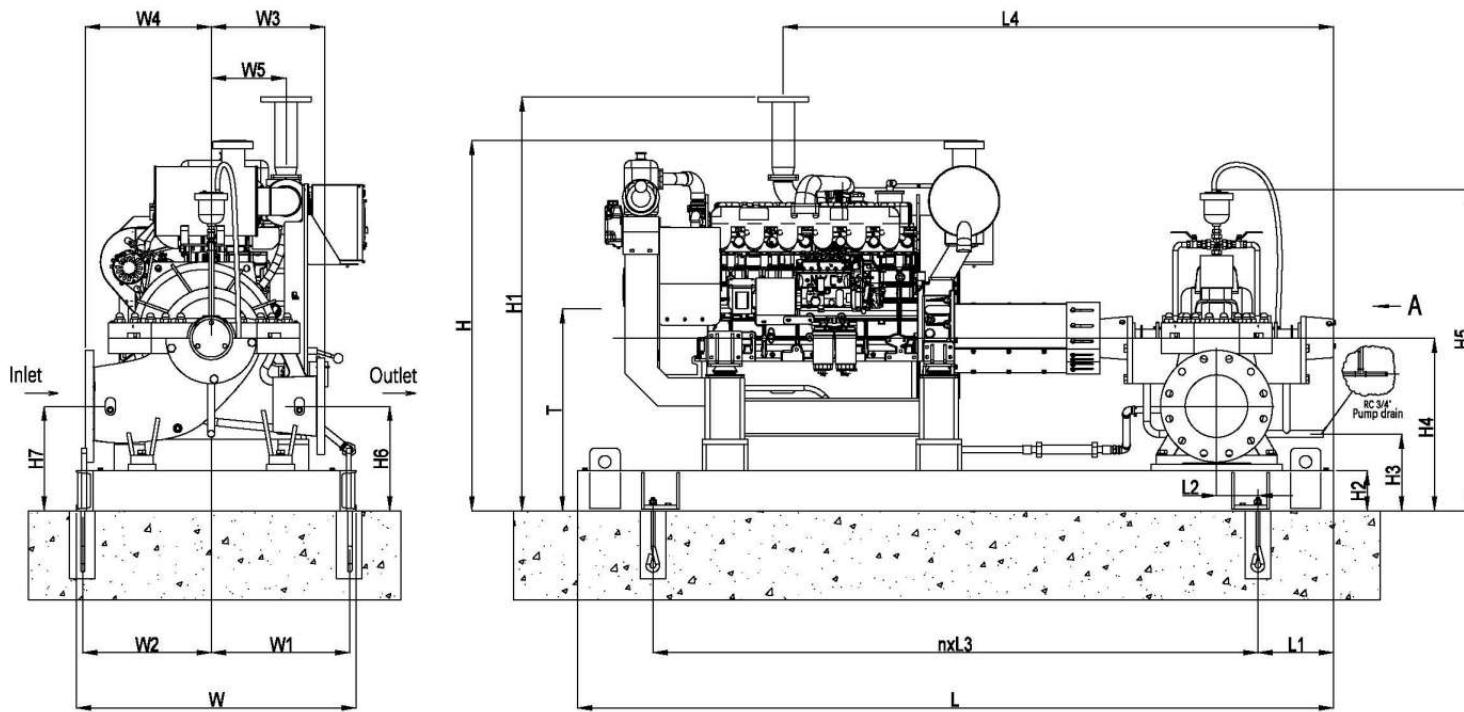
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA200-150-600



View : A



Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-114B	2900	295	175	3	770	2051	1300	675	575	480	560	299	1920	1737	160	245	725	1345	425	425	1035	8-M20x400	8-120x120x400
NM6-135	3200	325	155	3	850	2371	1300	675	575	480	560	371	1920	1737	160	245	725	1345	425	425	915	8-M20x400	8-120x120x400
NM6-128	3150	300	190	3	850	2459	1200	525	625	480	560	341	1845	1707	160	245	725	1345	425	425	970	8-M20x400	8-120x120x400

①: Oil pump benchmark

The force and torque of the pipe							Flange specification											
 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction															
			Fx	Fy	Fz													
	Inlet (8 INCH)	Pound	850	1100	700													
	Outlet (6 INCH)	Pound	560	700	460													
	Inlet (DN 200)	Newton	3780	4890	3110													
	Outlet (DN 150)	Newton	2490	3110	2050													
	Pump Flange	Unit	Axial Direction															
			Mx	My	Mz													
	Inlet (8 INCH)	Pound-Feet	2600	1300	1900	ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C					
	Outlet (6 INCH)	Pound-Feet	1700	870	1300	Inlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1					
	Inlet (DN 200)	Newton-meter	3530	1760	2580	Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5					
	Outlet (DN 150)	Newton-meter	2300	1180	1760													

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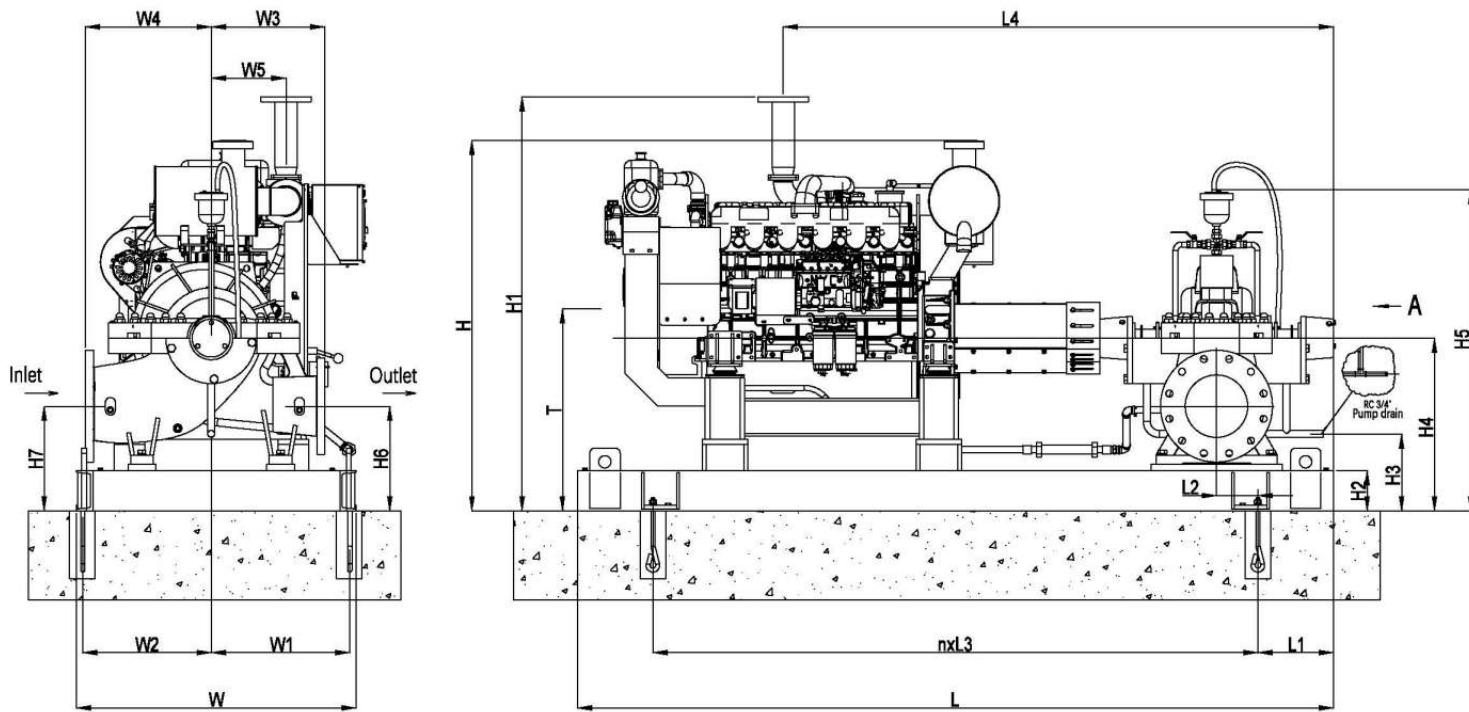


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA200-150-640



View : A

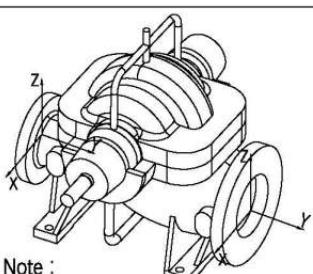


Diesel engine	Dimensions (Unit:mm)																				Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-114B	3200	300	300	4	650	2302	1400	710	640	500	600	296	1941	1757	160	270	745	1515	395	395	1056	10-M20x400	10-120x120x400
NM6-135	3500	250	350	4	750	2614	1400	725	625	500	600	372	1808	1792	160	270	745	1515	395	395	935	10-M20x400	10-120x120x400
NM6-135B	3500	250	350	4	750	2614	1400	725	625	500	600	372	1808	1792	160	270	745	1515	395	395	935	10-M20x400	10-120x120x400
NM6-128	3400	300	300	4	700	2694	1200	525	625	500	600	340	1845	1707	160	270	745	1515	395	395	1010	10-M20x400	10-120x120x400
NM8-128	3200	300	300	4	650	1600	1500	735	715	500	600	591	1644	1454	160	270	745	1515	395	395	1080	10-M20x400	10-120x120x400
NM10-128	3400	300	300	4	700	1710	1500	770	680	500	600	540	1780	1668	160	270	745	1515	395	395	1080	10-M20x400	10-120x120x400
NM12-128	3600	300	300	4	750	1710	1500	770	680	500	600	540	1820	1708	180	290	765	1535	415	415	1100	10-M20x400	10-120x120x400

①: Oil pump benchmark

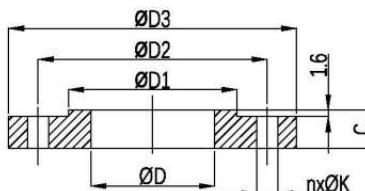
The force and torque of the pipe

Flange specification



Note :	
The pipe close to pump need proper support, Gravity from the inlet and outlet lines shall not be borne by the pump.	
Inlet (6 INCH)	Pound-Fee
Outlet (DN 200)	Newton-met
Outlet (DN 150)	Newton-met

Pump Flange	Unit	Axial Direction	
		Fx	Fy
Inlet (8 INCH)	Pound	850	1100
Outlet (6 INCH)	Pound	560	700
Inlet (DN 200)	Newton	3780	4890
Outlet (DN 150)	Newton	2490	3110
Pump Flange	Unit	Axial Direction	
		Mx	My
Inlet (8 INCH)	Pound-Feet	2600	1300
Outlet (6 INCH)	Pound-Feet	1700	870
Inlet (DN 200)	Newton-meter	3530	1760
Outlet (DN 150)	Newton-meter	2300	1180



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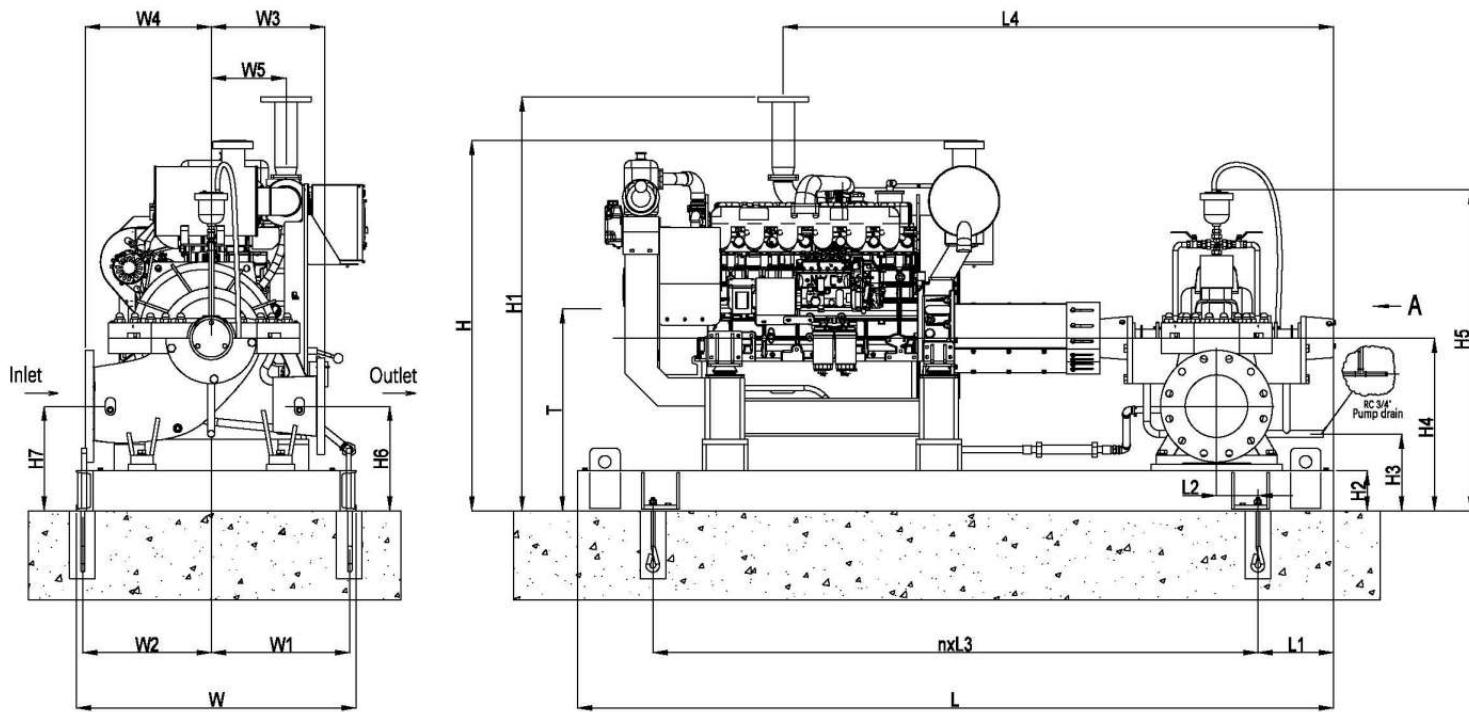
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA250-200-350



View : A



Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ⁽¹⁾		
NM6-110D	3100	275	225	3	850	2299	1250	675	525	450	500	318	1783	1702	160	245	685	1435	415	415	795	10-M20x400	10-120x120x400
NM6-108E	3050	250	255	3	850	2222	1150	585	515	450	500	318	1599	1730	140	225	665	1415	395	395	830	10-M20x400	10-120x120x400

(1): Oil pump benchmark

The force and torque of the pipe

Pump Flange	Unit	Axial Direction			Flange specification									
		Fx	Fy	Fz	ØD3	ØD2	ØD1	ØD	nxØK	C				
Inlet (10 INCH)	Pound	1200	1500	1000										
Outlet (8 INCH)	Pound	850	1100	700										
Inlet (DN 250)	Newton	5340	6670	4450										
Outlet (DN 200)	Newton	3780	4890	3110										
Pump Flange	Unit	Axial Direction			Flange specification									
		Mx	My	Mz	ØD3	ØD2	ØD1	ØD	nxØK	C				
Inlet (10 INCH)	Pound-Feet	3700	1800	2800										
Outlet (8 INCH)	Pound-Feet	2600	1300	1900	ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C		
Inlet (DN 250)	Newton-meter	5020	2440	3800	Inlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7		
Outlet (DN 200)	Newton-meter	3530	1760	2580	Outlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1		

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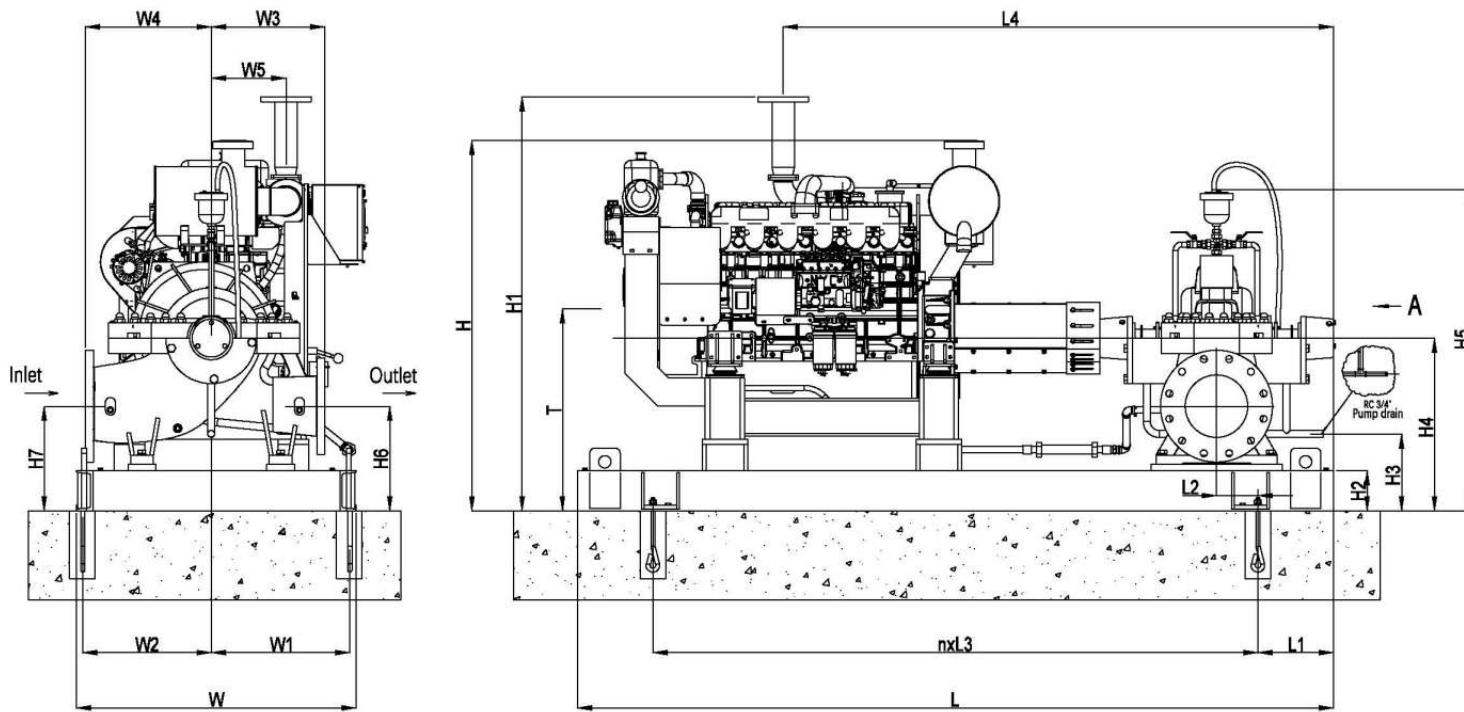


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA250-200-450



View : A



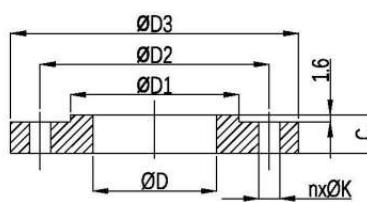
Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-114B	2900	280	180	3	780	2140	1300	675	575	400	500	299	1910	1717	160	245	705	1320	425	425	1020	8-M20x400	8-120x120x400
NM6-128B	3200	325	145	3	850	2503	1400	725	625	400	500	340	1605	1668	160	245	705	1320	425	425	965	8-M20x400	8-120x120x400
NM6-128	3150	300	190	3	850	2380	1150	525	575	400	500	340	1803	1665	160	245	705	1320	425	425	965	8-M20x400	8-120x120x400
NM8-128	3200	325	145	3	850	1505	1400	690	660	400	500	528	1516	1572	160	290	750	1365	470	470	1070	8-M20x400	8-120x120x400
NM10-128	3300	250	220	4	700	1476	1400	690	660	400	500	539	1536	1673	160	290	750	1365	470	470	1090	10-M20x400	10-120x120x400
NM6-135B	3200	325	145	3	850	2334	1300	675	575	400	500	372	1800	1867	160	245	705	1320	425	425	1020	8-M20x400	8-120x120x400
NM6-135	3200	325	145	3	850	2334	1300	675	575	400	500	372	1800	1867	160	245	705	1320	425	425	1020	8-M20x400	8-120x120x400

①: Oil pump benchmark

The force and torque of the pipe

Flange specification

Pump Flange	Unit	Axial Direction			Axial Direction	Unit	Axial Direction						
		Fx	Fy	Fz									
Inlet (10 INCH)	Pound	1200	1500	1000	Inlet (10 INCH)	Pound-Feet	3700	1800	2800				
Outlet (8 INCH)	Pound	850	1100	700	Outlet (8 INCH)	Pound-Feet	2600	1300	1900				
Inlet (DN 250)	Newton	5340	6670	4450	Inlet (DN 250)	Newton-meter	5020	2440	3800				
Outlet (DN 200)	Newton	3780	4890	3110	Outlet (DN 200)	Newton-meter	3530	1760	2580				
Pump Flange	Unit	Mx	My	Mz	Inlet 10 INCH	ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
Inlet (10 INCH)	Pound-Feet	3700	1800	2800	Inlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7	
Outlet (8 INCH)	Pound-Feet	2600	1300	1900	Outlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1	
Inlet (DN 250)	Newton-meter	5020	2440	3800									
Outlet (DN 200)	Newton-meter	3530	1760	2580									



Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall not be borne by the pump.

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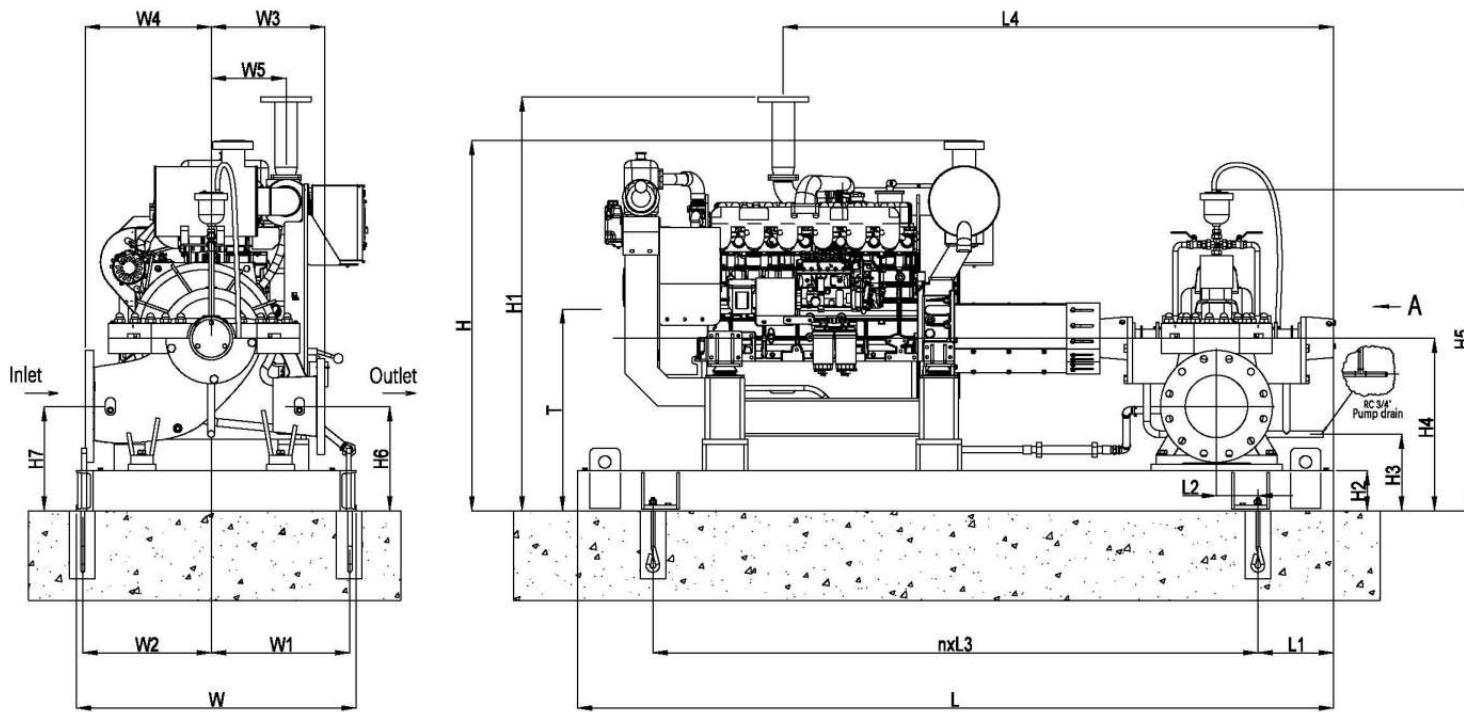


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA250-200-500



View : A



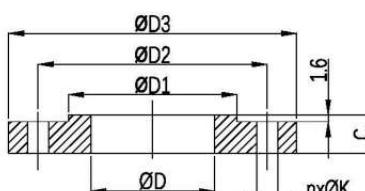
Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-128B	3100	275	275	3	850	2388	1200	575	575	450	550	221	2020	1723	160	255	735	1535	425	425	995	8-M20x400	8-120x120x400
NM6-128	3300	250	310	4	700	2604	1300	625	625	450	550	340	1833	1698	160	255	735	1535	425	425	995	10-M20x400	10-120x120x400
NM8-128	3300	250	300	4	700	1610	1400	675	675	450	550	528	1826	1593	160	270	750	1550	440	440	1090	10-M20x400	10-120x120x400
NM10-128	3500	300	250	4	725	1719	1400	675	675	450	550	540	2023	1673	160	270	750	1550	440	440	1090	10-M20x400	10-120x120x400
NM12-128	3700	300	250	4	775	1719	1400	675	675	450	550	540	2023	1673	160	270	750	1550	440	440	1090	10-M20x400	10-120x120x400
NM6-135B	3400	250	300	4	725	2534	1300	675	575	450	550	372	1800	1867	160	255	735	1535	425	425	1035	10-M20x400	10-120x120x400
NM6-135	3400	250	300	4	725	2534	1300	675	575	450	550	372	1800	1867	160	255	735	1535	425	425	1035	10-M20x400	10-120x120x400
NM6-127	3100	275	275	3	850	2538	1300	675	575	450	550	307	1570	1760	160	255	735	1535	425	425	905	8-M20x400	8-120x120x400

The force and torque of the pipe

Flange specification

①: Oil pump benchmark

Note :	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 Lb RF	$\emptyset D$	$\emptyset D1$	$\emptyset D2$	$\emptyset D3$	n	$\emptyset K$	C	
			Fx	Fy	Fz									
The pipe close to pump need proper support, Gravity from the inlet and outlet lines shall not be borne by the pump.	Inlet (10 INCH)	Pound	1200	1500	1000									
	Outlet (8 INCH)	Pound	850	1100	700									
	Inlet (DN 250)	Newton	5340	6670	4450									
	Outlet (DN 200)	Newton	3780	4890	3110									
Pump Flange		Unit	Axial Direction			ANSI B16.1 250 Lb RF		$\emptyset D$	$\emptyset D1$	$\emptyset D2$	$\emptyset D3$	n	$\emptyset K$	C
Inlet (10 INCH)		Pound-Feet	3700	1800	2800	Inlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7	
Outlet (8 INCH)		Pound-Feet	2600	1300	1900	Outlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1	
Inlet (DN 250)		Newton-meter	5020	2440	3800									
Outlet (DN 200)		Newton-meter	3530	1760	2580									



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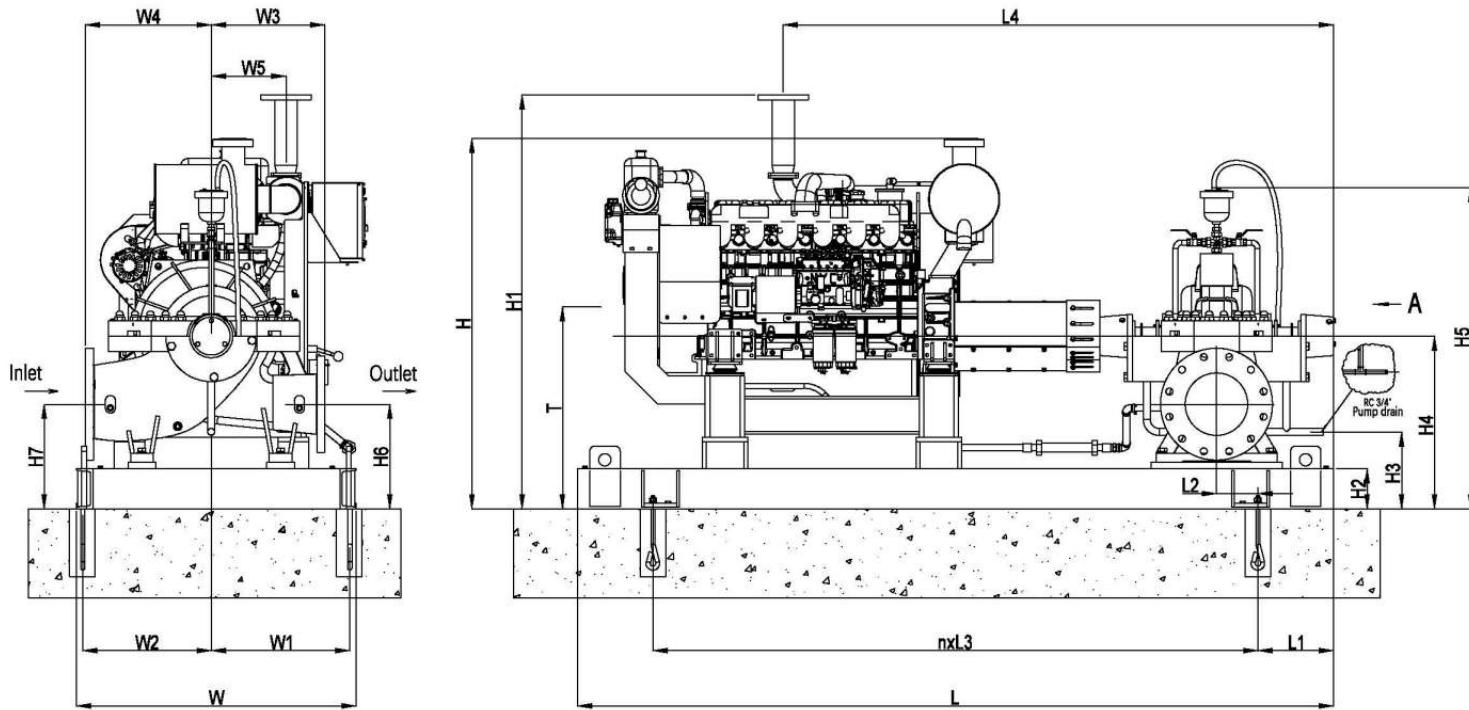


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA250-200-500S



View : A

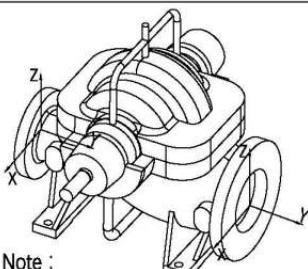


Diesel engine	Dimensions (Unit:mm)																			Anchor bolt	Anchor bolt box		
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-114	3100	275	275	3	850	2394	1300	690	560	450	550	261	1904	1737	160	255	735	1535	425	425	1035	8-M20x400	8-120x120x400
NM6-128B	3100	275	275	3	850	2388	1200	575	575	450	550	221	2020	1723	160	255	735	1535	425	425	995	8-M20x400	8-120x120x400
NM6-128	3300	250	310	4	700	2604	1300	625	625	450	550	340	1833	1698	160	255	735	1535	425	425	995	10-M20x400	10-120x120x400
NM8-128	3300	250	300	4	700	1610	1400	675	675	450	550	528	1826	1593	160	270	750	1550	440	440	1090	10-M20x400	10-120x120x400
NM10-128	3500	300	250	4	725	1719	1400	675	675	450	550	540	2023	1673	160	270	750	1550	440	440	1090	10-M20x400	10-120x120x400
NM12-128	3700	300	250	4	775	1719	1400	675	675	450	550	540	2023	1673	160	270	750	1550	440	440	1090	10-M20x400	10-120x120x400
NM6-135B	3400	250	300	4	725	2534	1300	675	575	450	550	372	1800	1867	160	255	735	1535	425	425	1035	10-M20x400	10-120x120x400
NM6-135	3400	250	300	4	725	2534	1300	675	575	450	550	372	1800	1867	160	255	735	1535	425	425	1035	10-M20x400	10-120x120x400

The force and torque of the pipe

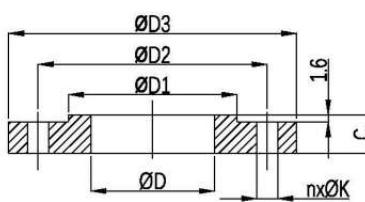
Flange specification

①: Oil pump benchmark



Note :	
The pipe close to pump need proper support, Gravity from the inlet and outlet lines shall not be borne by the pump.	
Outlet (8 INCH)	Pound-Feet
Inlet (DN 250)	Newton-metres
Outlet (DN 200)	Newton-metres

Pump Flange	Unit	Axial Direction	
		Fx	Fy
Inlet (10 INCH)	Pound	1200	1500
Outlet (8 INCH)	Pound	850	1100
Inlet (DN 250)	Newton	5340	6670
Outlet (DN 200)	Newton	3780	4890
Pump Flange	Unit	Axial Direction	
		Mx	My
Inlet (10 INCH)	Pound-Feet	3700	1800
Outlet (8 INCH)	Pound-Feet	2600	1300
Inlet (DN 250)	Newton-meter	5020	2440
Outlet (DN 200)	Newton-meter	3530	1760



1900	ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
3800	Inlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7
2580	Outlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1

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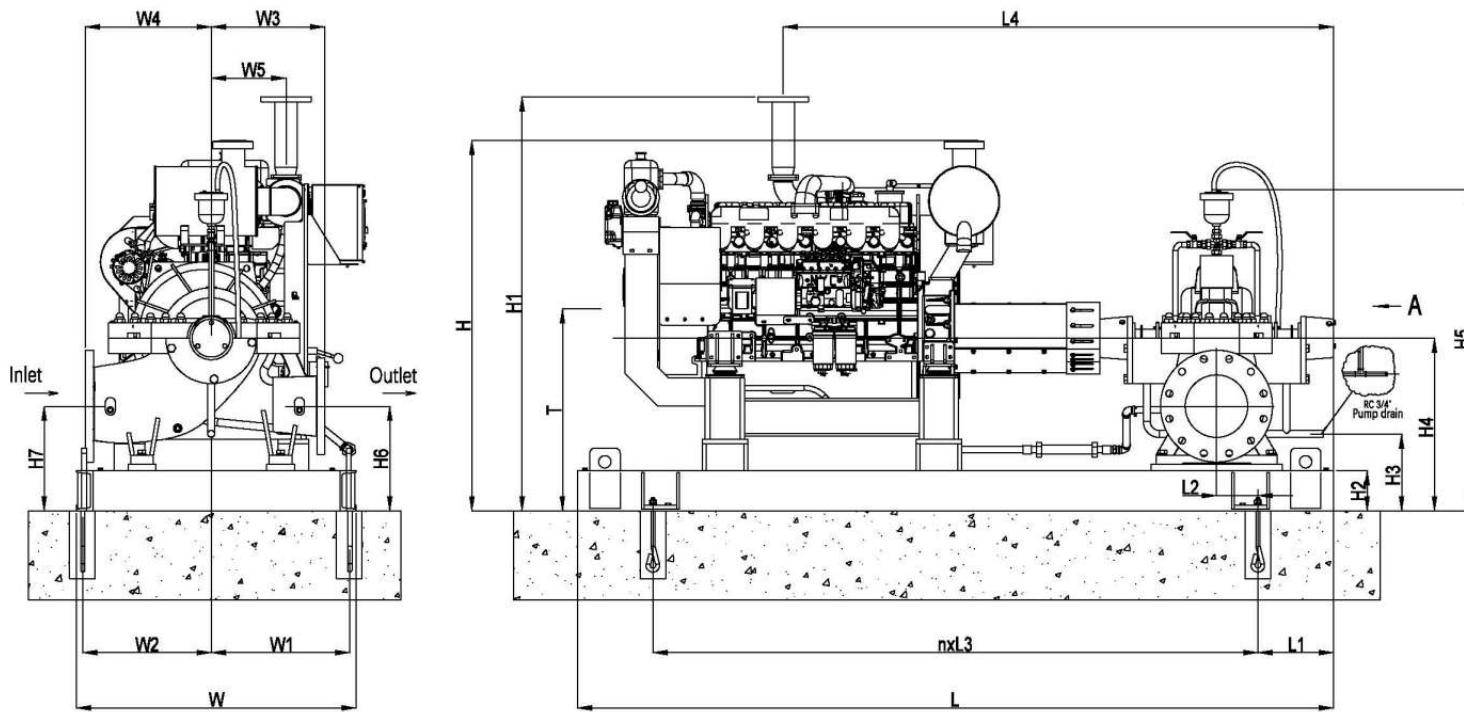
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA250-200-600



View : A



Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box				
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-128	3300	250	300	4	700	2647	1350	600	700	500	600	340	1873	1735	160	245	775	1492	425	425	1035	10-M20x400	10-120x120x400
NM8-128	3400	250	300	4	725	1727	1400	675	675	500	600	528	1866	1635	160	245	775	1492	425	425	1115	10-M20x400	10-120x120x400
NM10-128	3600	280	270	4	760	1763	1400	675	675	500	600	540	2067	1718	160	245	775	1492	425	425	1115	10-M20x400	10-120x120x400
NM12-128	3600	300	250	4	775	1743	1450	720	670	500	600	540	2087	1738	180	245	795	1512	445	445	1130	10-M20x400	10-120x120x400
NM6-135B	3400	250	300	4	725	2534	1400	675	675	500	600	372	1800	1867	160	245	775	1492	425	425	965	10-M20x400	10-120x120x400
NM6-135	3400	250	300	4	725	2534	1400	675	675	500	600	372	1800	1867	160	245	775	1492	425	425	965	10-M20x400	10-120x120x400

①: Oil pump benchmark

The force and torque of the pipe

Flange specification

	Pump Flange	Unit	Axial Direction				ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
			Fx	Fy	Fz									
	Inlet (10 INCH)	Pound	1200	1500	1000									
	Outlet (8 INCH)	Pound	850	1100	700									
	Inlet (DN 250)	Newton	5340	6670	4450									
	Outlet (DN 200)	Newton	3780	4890	3110									
	Pump Flange	Unit	Axial Direction				ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
			Mx	My	Mz									
	Inlet (10 INCH)	Pound-Feet	3700	1800	2800									
	Outlet (8 INCH)	Pound-Feet	2600	1300	1900									
	Inlet (DN 250)	Newton-meter	5020	2440	3800		Inlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7
	Outlet (DN 200)	Newton-meter	3530	1760	2580		Outlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1

Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

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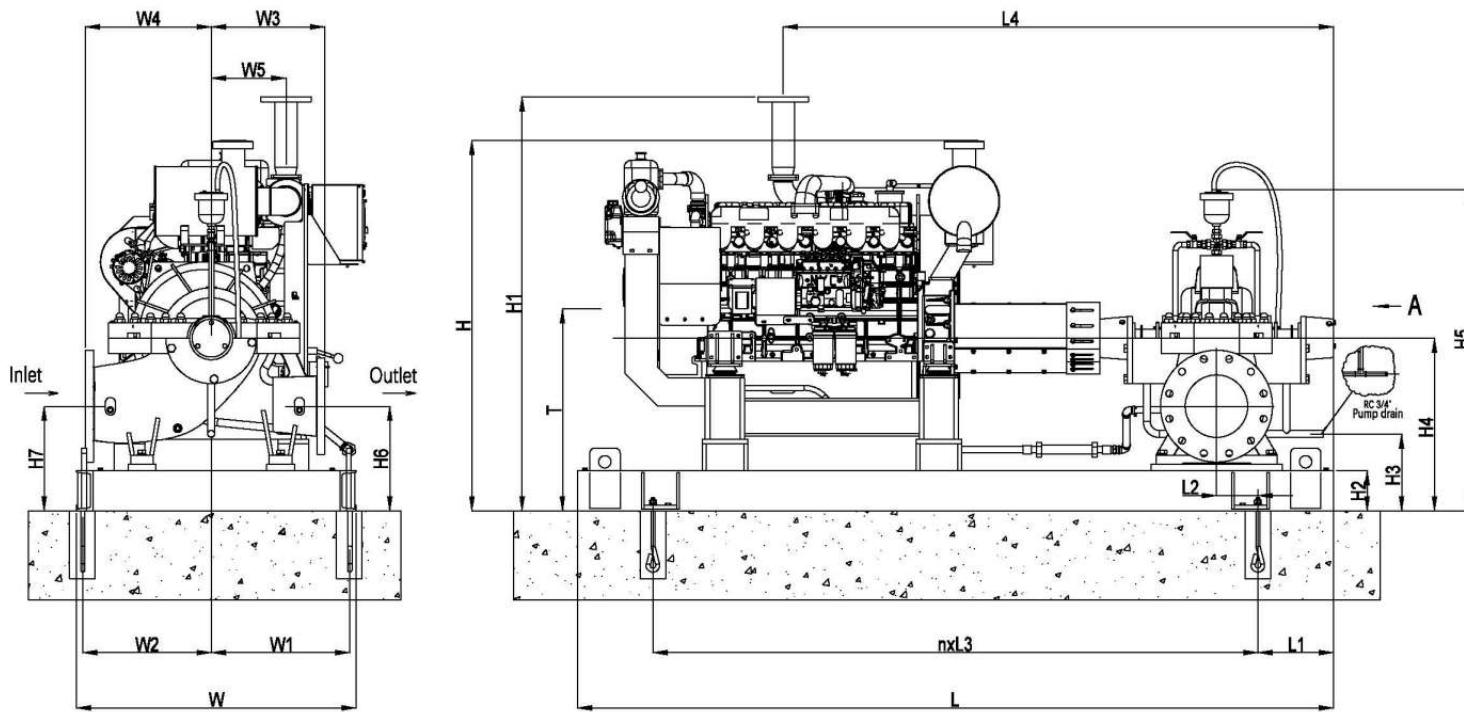


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA300-250-500



View : A



Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-128	3500	250	360	4	750	2739	1500	755	695	550	650	340	1759	1823	160	270	860	1574	490	490	1120	10-M20x400	10-120x120x400
NM8-128	3500	250	360	4	750	1819	1400	650	690	550	650	528	1951	1720	180	290	880	1594	510	510	1220	10-M20x400	10-120x120x400
NM10-128	3700	250	400	4	800	1877	1400	650	690	550	650	540	2152	1803	180	290	880	1594	510	510	1220	10-M20x400	10-120x120x400
NM12-128	3750	275	370	4	800	1870	1450	655	735	550	650	540	2152	1803	180	290	880	1594	510	510	1220	10-M20x400	10-120x120x400
NM12-128B	3850	275	370	4	825	1870	1450	655	735	550	650	553	2213	1802	180	290	880	1594	510	510	1220	10-M20x400	10-120x120x400
NM12-128C	3850	275	370	4	825	1870	1450	655	735	550	650	553	2213	1802	180	290	880	1594	510	510	1220	10-M20x400	10-120x120x400
NM6-127	3200	325	285	3	850	2739	1400	675	675	550	650	307	1695	1885	160	270	860	1574	490	490	1030	8-M20x400	8-120x120x400

①: Oil pump benchmark

The force and torque of the pipe

Flange specification

	Pump Flange	Unit	Axial Direction				ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
			Fx	Fy	Fz									
	Inlet (12 INCH)	Pound	1500	1800	1200									
	Outlet (10 INCH)	Pound	1200	1500	1000									
	Inlet (DN 300)	Newton	6670	8000	5340									
	Outlet (DN 250)	Newton	5340	6670	4450									
	Pump Flange	Unit	Axial Direction				ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
			Mx	My	Mz									
	Inlet (12 INCH)	Pound-Feet	4500	2200	3400									
	Outlet (10 INCH)	Pound-Feet	3700	1800	2800									
	Inlet (DN 300)	Newton-meter	6100	2980	4610		Inlet 12 INCH	304.8	417.6	450.8	520.7	16	31.7	50.8
	Outlet (DN 250)	Newton-meter	5020	2440	3800		Outlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7

Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

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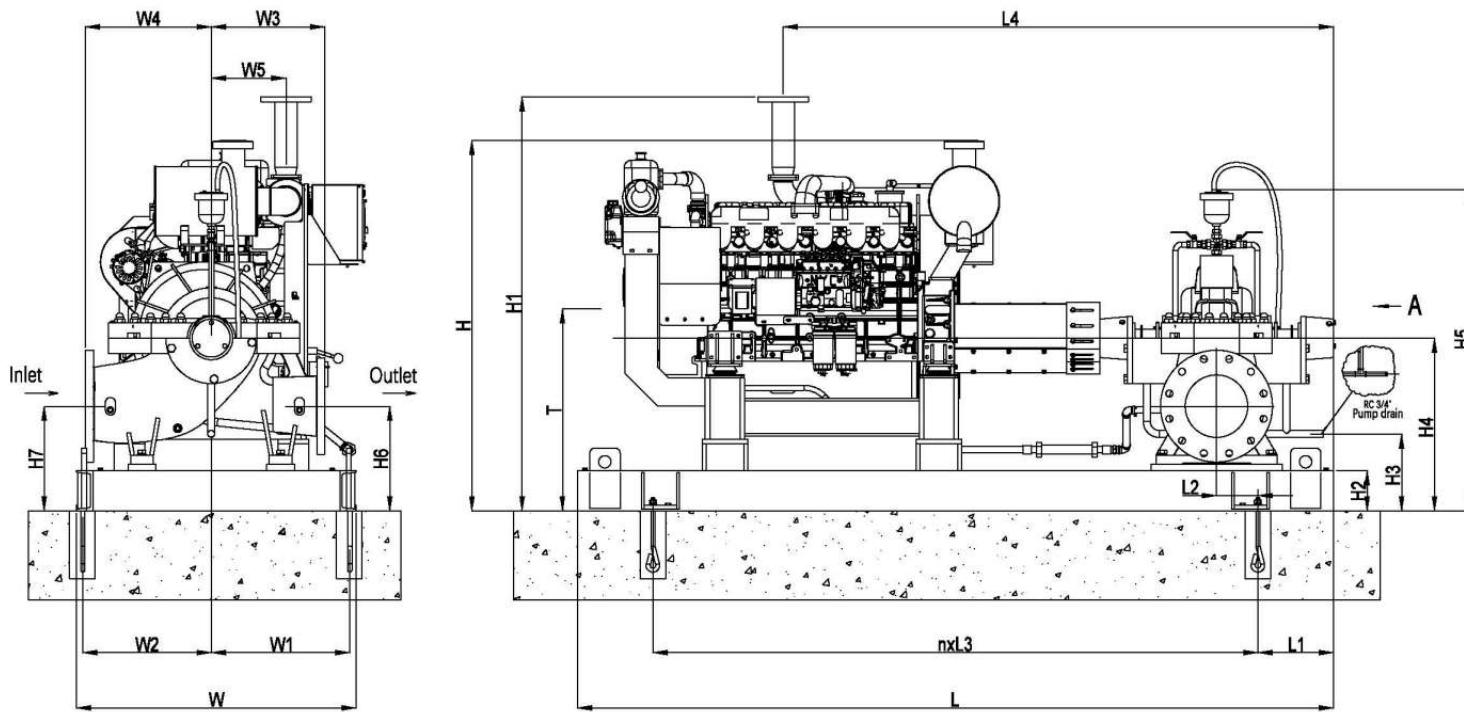
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA300-250-600



View : A



Diesel engine	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box					
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①			
NM6-159	3700	300	300	4	775	2870	1500	720	720	550	650	324	2270	2370	180	290	880	1660	480	480	1000	10-M20x400	10-120x120x400	
NM12-128	3700	300	300	4	775	1815	1500	720	720	550	650	539	2165	2165	180	290	880	1750	480	480	1220	10-M20x400	10-120x120x400	
NM6-159B	3800	300	300	4	800	2870	1550	770	720	550	650	322	2245	2375	180	290	880	1750	480	480	1000	10-M20x400	10-120x120x400	
NM12-128B	3800	300	300	4	800	1556	1600	820	720	550	650	383	2175	2175	1790	180	290	880	1750	480	480	1220	10-M20x400	10-120x120x400
NM12-128C	3800	300	300	4	800	1556	1600	820	720	550	650	383	2175	2175	1790	180	290	880	1750	480	480	1220	10-M20x400	10-120x120x400
NM12-159B	4200	300	300	4	900	2270	1600	820	720	550	650	379	2595	2480	220	330	920	1790	520	520	855	10-M30x630	10-150x150x630	

①: Oil pump benchmark

The force and torque of the pipe

Flange specification

Pump Flange	Unit	Axial Direction			Axial Direction	ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
		Fx	Fy	Fz									
Inlet (12 INCH)	Pound	1500	1800	1200	Inlet 12 INCH	304.8	417.6	450.8	520.7	16	31.7	50.8	
Outlet (10 INCH)	Pound	1200	1500	1000	Outlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7	
Inlet (DN 300)	Newton	6670	8000	5340	Inlet 12 INCH	304.8	417.6	450.8	520.7	16	31.7	50.8	
Outlet (DN 250)	Newton	5340	6670	4450	Outlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7	
Pump Flange	Unit	Axial Direction			Axial Direction	ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
Inlet (12 INCH)	Pound-Feet	4500	2200	3400									
Outlet (10 INCH)	Pound-Feet	3700	1800	2800	Inlet 12 INCH	304.8	417.6	450.8	520.7	16	31.7	50.8	
Inlet (DN 300)	Newton-meter	6100	2980	4610	Outlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7	
Outlet (DN 250)	Newton-meter	5020	2440	3800									

Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

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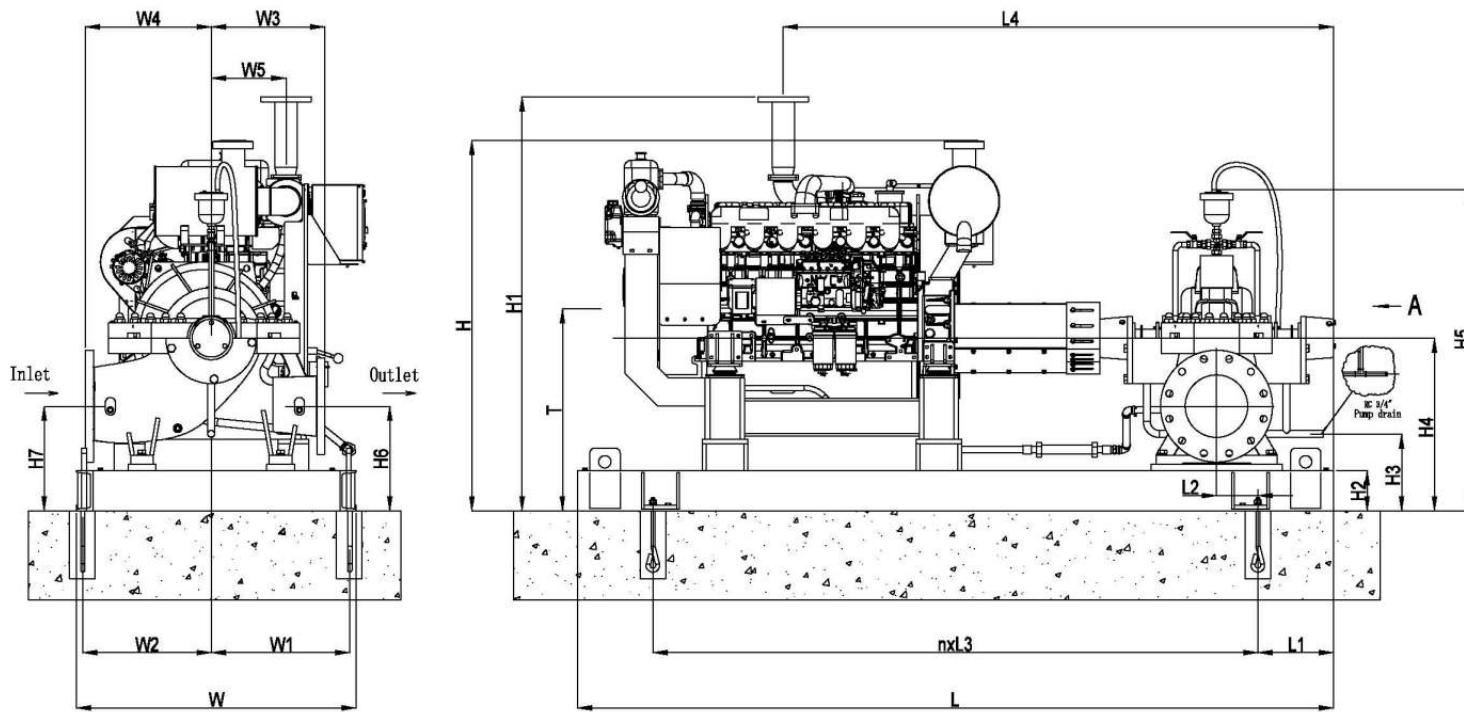
OUTLINE DIMENSIONS - SINGLE STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA300-250-600L



View: A



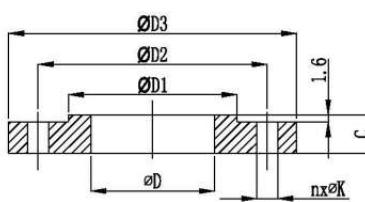
Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM12-128B	3850	275	370	4	825	1870	1450	655	735	550	650	553	2213	1802	180	290	880	1594	510	510	1220	10-M20x400	10-120x120x400
NM12-128C	3850	275	370	4	825	1870	1450	655	735	550	650	553	2213	1802	180	290	880	1594	510	510	1220	10-M20x400	10-120x120x400
NM12-159	4200	275	370	4	900	3022 3166	1650	820	780	550	650	553	227 H1	2055	220	330	920	1635	550	550	835	10-M30x630	10-150x150x630
NM12-159B	4200	275	370	4	900	3022 3166	1650	820	780	550	650	553	227 H1	2055	220	330	920	1635	550	550	835	10-M30x630	10-150x150x630

①: Oil pump benchmark

The force and torque of the pipe

Flange specification

 Note: The pipe close to pump need proper support, Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction			Inlet 12 INCH	Outlet 10 INCH	Inlet DN 300	Outlet DN 250	Inlet (12 INCH)	Outlet (10 INCH)	Inlet (DN 300)	Outlet (DN 250)	Axial Direction			Inlet 12 INCH	Outlet 10 INCH	Inlet DN 300	Outlet DN 250	Inlet 12 INCH	Outlet 10 INCH	Inlet DN 300	Outlet DN 250					
			Fx	Fy	Fz									Mx	My	Mz													
	Inlet (12 INCH)	Pound	1500	1800	1200									4500	2200	3400													
	Outlet (10 INCH)	Pound	1200	1500	1000									3700	1800	2800	ANSI B16.1 250 lb RF	xD	xD1	xD2	xD3	n	xK	C					
	Inlet (DN 300)	Newton	6670	8000	5340									6100	2980	4610	Inlet 12 INCH	304.8	417.6	450.8	520.7	16	31.7	50.8					
	Outlet (DN 250)	Newton	5340	6670	4450									5020	2440	3800	Outlet 10 INCH	254.5	357.1	387.3	444.5	16	28.4	47.7					



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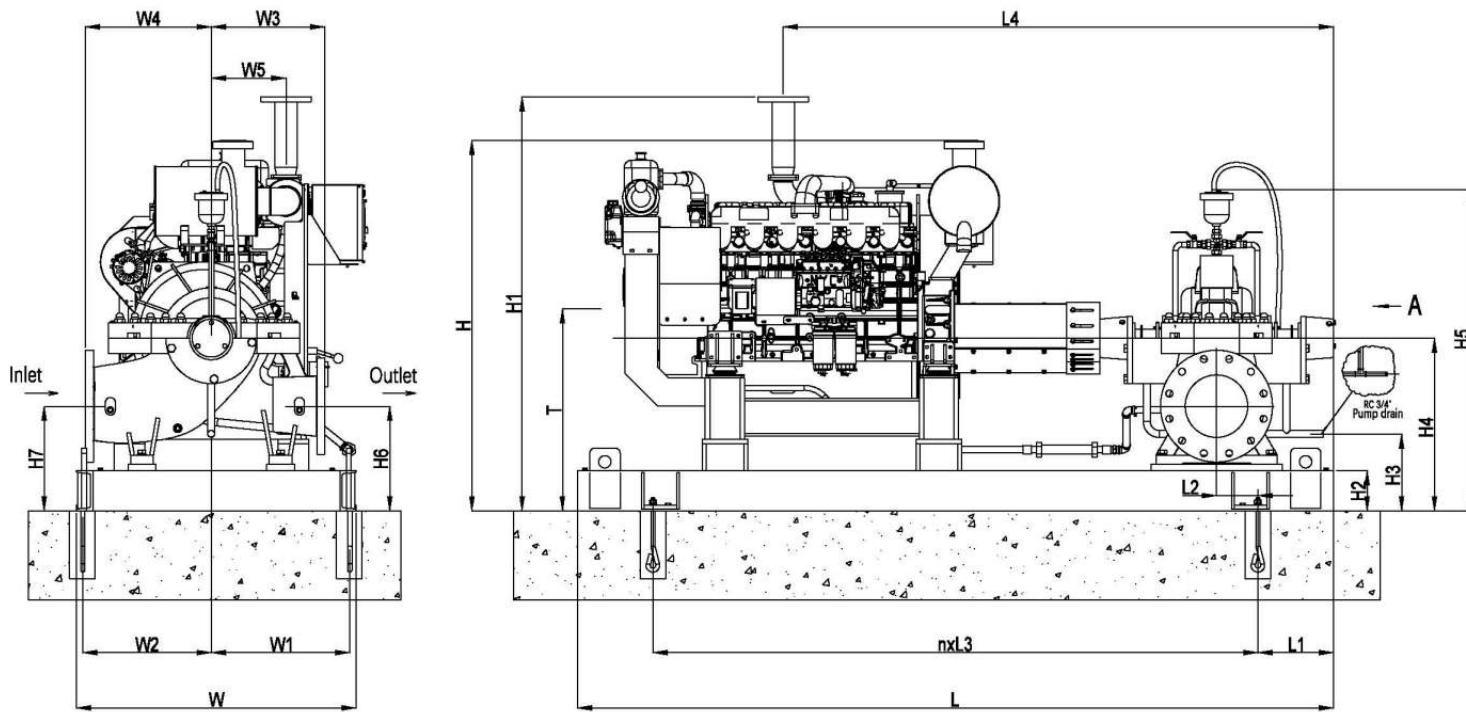


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA300-250-640



View : A

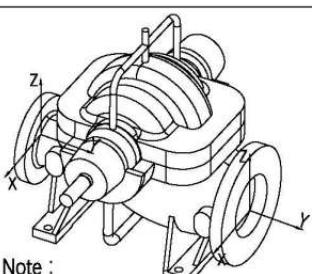


Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM10-128	3700	250	400	4	800	1877	1400	650	690	570	680	540	2152	1803	180	290	880	1750	490	490	1220	10-M20x400	10-120x120x400
NM12-128	3850	275	370	4	825	2483	1450	655	735	570	680	540	2152	1803	180	290	880	1750	490	490	1220	10-M20x400	10-120x120x400
NM12-128B	3850	275	370	4	825	1870	1450	655	735	570	680	553	2213	1802	180	290	880	1750	490	490	1220	10-M20x400	10-120x120x400
NM12-128C	3850	275	370	4	825	1870	1450	655	735	570	680	553	2213	1802	180	290	880	1750	490	490	1220	10-M20x400	10-120x120x400
NM6-159B	3800	300	330	4	800	2879	1500	755	695	570	680	322	2264	2395	200	310	900	1770	510	510	1240	10-M24x500	10-150x150x500
NM12-159B	4200	300	330	4	900	2278 3479	1550	800	700	570	680	379	2594	2480	220	330	920	1790	530	530	1260	10-M30x630	10-150x150x630

①: Oil pump benchmark

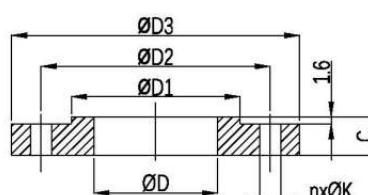
The force and torque of the pipe

Flange specification



Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (12 INCH)	Pound	1500	1800	1200
Outlet (10 INCH)	Pound	1200	1500	1000
Inlet (DN 300)	Newton	6670	8000	5340
Outlet (DN 250)	Newton	5340	6670	4450
Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (12 INCH)	Pound-Feet	4500	2200	3400
Outlet (10 INCH)	Pound-Feet	3700	1800	2800
Inlet (DN 300)	Newton-meter	6100	2980	4610
Outlet (DN 250)	Newton-meter	5020	2440	3800



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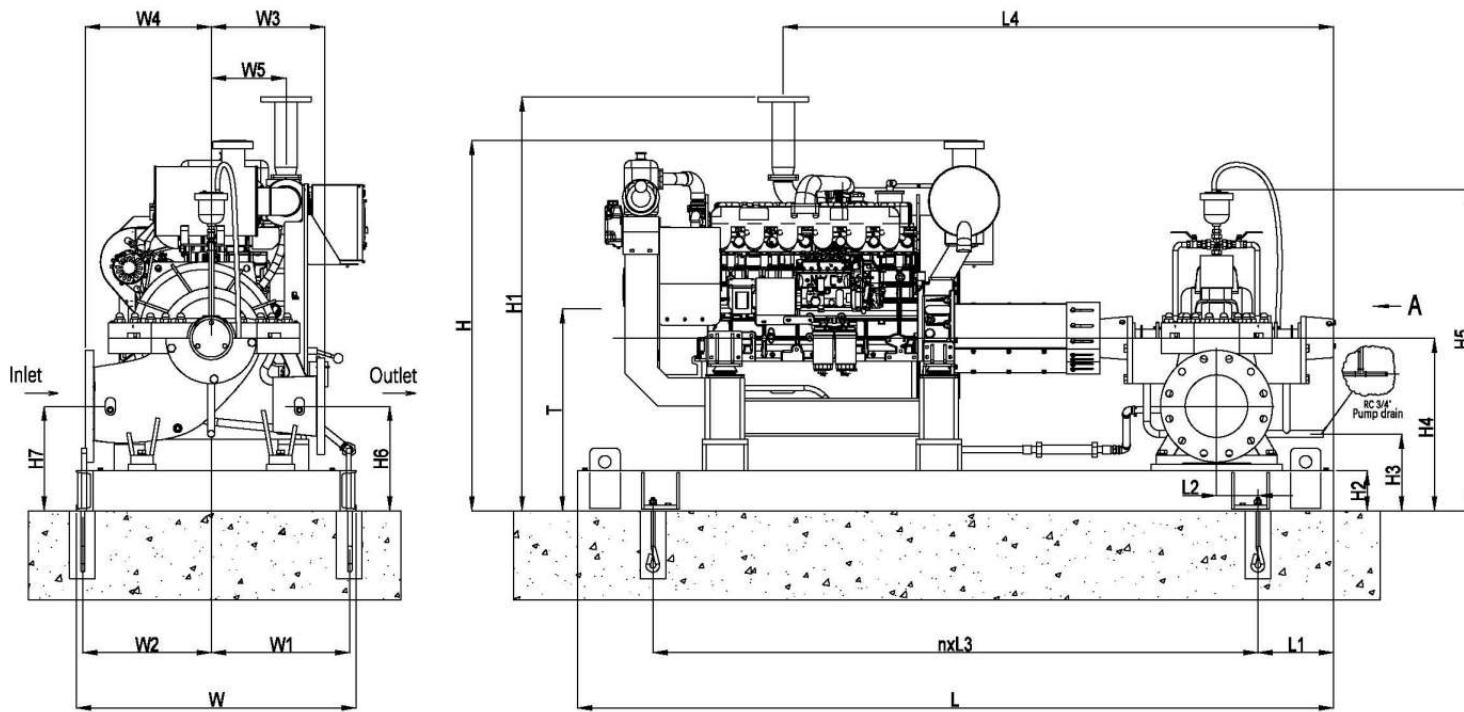


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA350-250-640



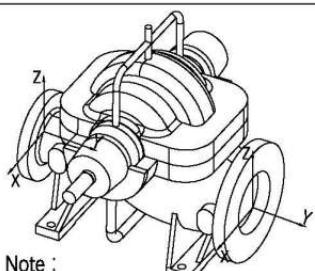
View : A



Diesel engine	Dimensions (Unit:mm)																		Anchor bolt	Anchor bolt box			
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ⁽¹⁾		
NM12-128	4000	300	405	4	850	2020	1500	655	785	600	750	540	2212	1863	200	320	940	1696	540	540	1280	10-M24x500	10-150x150x500
NM12-128B	4000	300	405	4	850	2020	1500	655	785	600	750	553	2273	1862	200	320	940	1696	540	540	1280	10-M24x500	10-150x150x500
NM12-128C	4000	300	405	4	850	2020	1500	655	785	600	750	553	2273	1862	200	320	940	1696	540	540	1280	10-M24x500	10-150x150x500
NM12-159	4400	250	450	5	780	3200	1650	810	780	600	750	227	2066	1964	220	340	960	1716	560	560	875	12-M30x630	12-150x150x630

(1): Oil pump benchmark

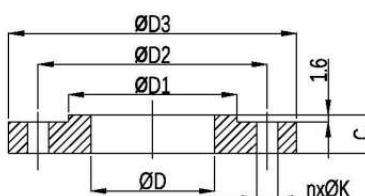
The force and torque of the pipe



Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (14 INCH)	Pound	1600	2000	1300
Outlet (10 INCH)	Pound	1200	1500	1000
Inlet (DN 350)	Newton	7120	8900	5780
Outlet (DN 250)	Newton	5340	6670	4450
Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (14 INCH)	Pound-Feet	4700	2300	3500
Outlet (10 INCH)	Pound-Feet	3700	1800	2800
Inlet (DN 350)	Newton-meter	6370	3120	4750
Outlet (DN 250)	Newton-meter	5020	2440	3800

Flange specification



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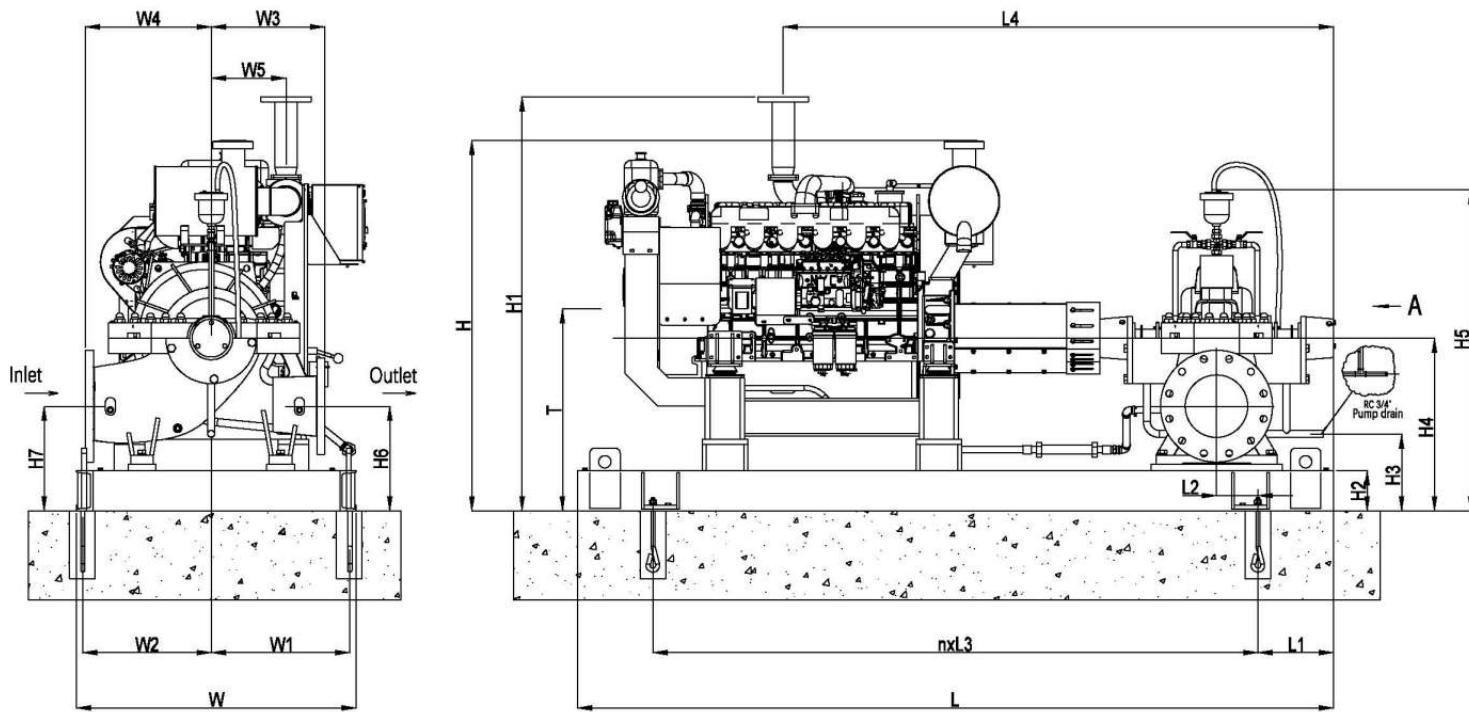


OUTLINE DIMENSIONS - SINGLE STAGE DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA400-350-640



View : A

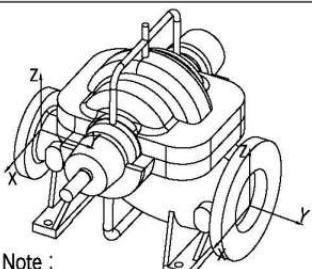


Diesel engine	Dimensions (Unit:mm)																			Anchor bolt	Anchor bolt box		
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM12-128	4000	300	400	4	850	2017	1550	745	745	650	730	540	2268	1918	180	310	995	1940	545	545	910	10-M20x400	10-120x120x400
NM12-128B	4000	300	410	4	850	2022	1450	655	735	650	730	553	2336	1927	200	330	1015	1960	565	565	930	10-M24x500	10-150x150x500
NM12-128C	4000	300	410	4	850	2022	1450	655	735	650	730	553	2336	1927	200	330	1015	1960	565	565	930	10-M24x500	10-150x150x500
NM12-159	4500	250	450	5	800	3309	1700	840	810	650	730	227	2171	2069	250	380	1065	2010	615	615	980	12-M30x630	12-150x150x630

①: Oil pump benchmark

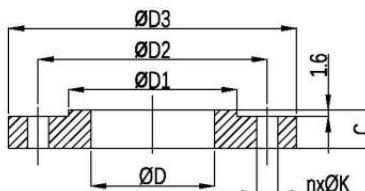
The force and torque of the pipe

Flange specification



Note :
The pipe close to pump need proper support.
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction	
		Fx	Fy
Inlet (16 INCH)	Pound	1900	2300
Outlet (14 INCH)	Pound	1600	2000
Inlet (DN 400)	Newton	8450	10230
Outlet (DN 350)	Newton	7120	8900
Pump Flange	Unit	Axial Direction	
		Mx	My
Inlet (16 INCH)	Pound-Feet	5400	2700
Outlet (14 INCH)	Pound-Feet	4700	2300
Inlet (DN 400)	Newton-meter	7320	3660
Outlet (DN 350)	Newton-meter	6370	3120



4500									
3500	ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C	
5420	Inlet 16 INCH	406.4	548.6	571.5	647.7	20	35.1	57.1	
4750	Outlet 14 INCH	355.6	481.1	514.3	584.2	20	31.7	53.8	

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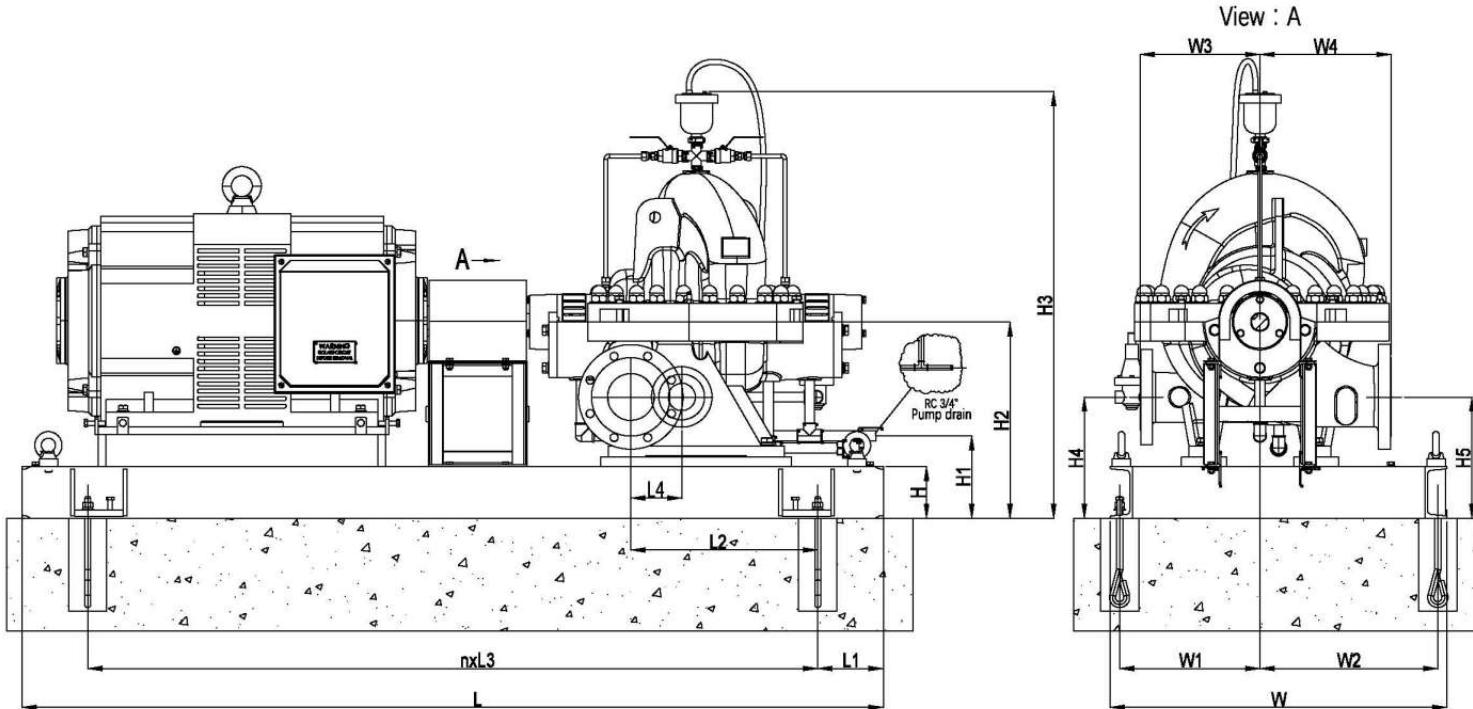
Ahead > Beyond



OUTLINE DIMENSIONS - MULTI STAGE

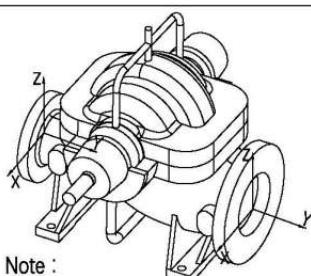
ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA125-100-330X2



Motor model	Dimensions (Unit:mm)																	Anchor bolt	Anchor bolt box
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC444TS200U2B	2150	175	500	3	600	185	900	375	475	320	350	140	210	525	1185	325	325	8-M16x300	8-120x120x300
F-TXC447TS200U2B	2400	150	525	3	700	185	900	375	475	320	350	140	210	525	1185	325	325	8-M16x300	8-120x120x300
F-TDC449TS250U2B	2350	170	505	3	670	185	900	375	475	320	350	140	210	525	1185	325	325	8-M16x300	8-120x120x300
F-TXC449TS250U2B	2400	150	525	3	700	185	900	375	475	320	350	140	210	525	1185	325	325	8-M16x300	8-120x120x300
F-TDC447TS300U2B	2350	170	505	3	670	185	900	375	475	320	350	140	210	525	1185	325	325	8-M16x300	8-120x120x300
F-TXC449TS300U2B	2400	150	525	3	700	185	900	375	475	320	350	140	210	525	1185	325	325	8-M16x300	8-120x120x300
F-TDC449TS350U2B	2350	170	505	3	670	185	900	375	475	320	350	140	210	525	1185	325	325	8-M16x300	8-120x120x300
F-TXC449TS350U2B	2400	150	525	3	700	185	900	375	475	320	350	140	210	525	1185	325	325	8-M16x300	8-120x120x300
F-TXC586/7TS350U2B	2750	280	395	3	730	185	1200	475	675	320	350	160	230	545	1205	345	345	8-M20x400	8-120x120x400
F-TXC586/7TS400U2B	2750	280	395	3	730	185	1200	475	675	320	350	160	230	545	1205	345	345	8-M20x400	8-120x120x400

The force and torque of the pipe



Note :
The pipe close to pump need proper support,
Gravity from the inlet and outlet lines shall
not be borne by the pump.

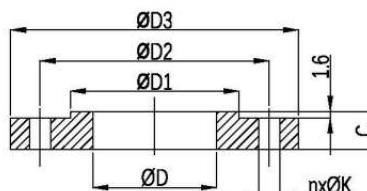
Pump Flange Unit Axial Direction

Pump Flange	Unit	Fx	Fy	Fz
Inlet (5 INCH)	Pound	560	700	460
Outlet (4 INCH)	Pound	320	400	260
Inlet (DN 125)	Newton	2490	3110	2050
Outlet (DN 100)	Newton	1420	1780	1160

Pump Flange Unit Axial Direction

Pump Flange	Unit	Mx	My	Mz
Inlet (5 INCH)	Pound-Feet	1700	870	1300
Outlet (4 INCH)	Pound-Feet	980	500	740
Inlet (DN 125)	Newton-meter	2300	1180	1760
Outlet (DN 100)	Newton-meter	1330	680	1000

Flange specification



ANSI B16.1 250 lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
Inlet 5 INCH	128.3	211.0	234.9	279.4	8	22.3	35.0
Outlet 4 INCH	102.4	176.3	200.1	254.0	8	22.3	31.7

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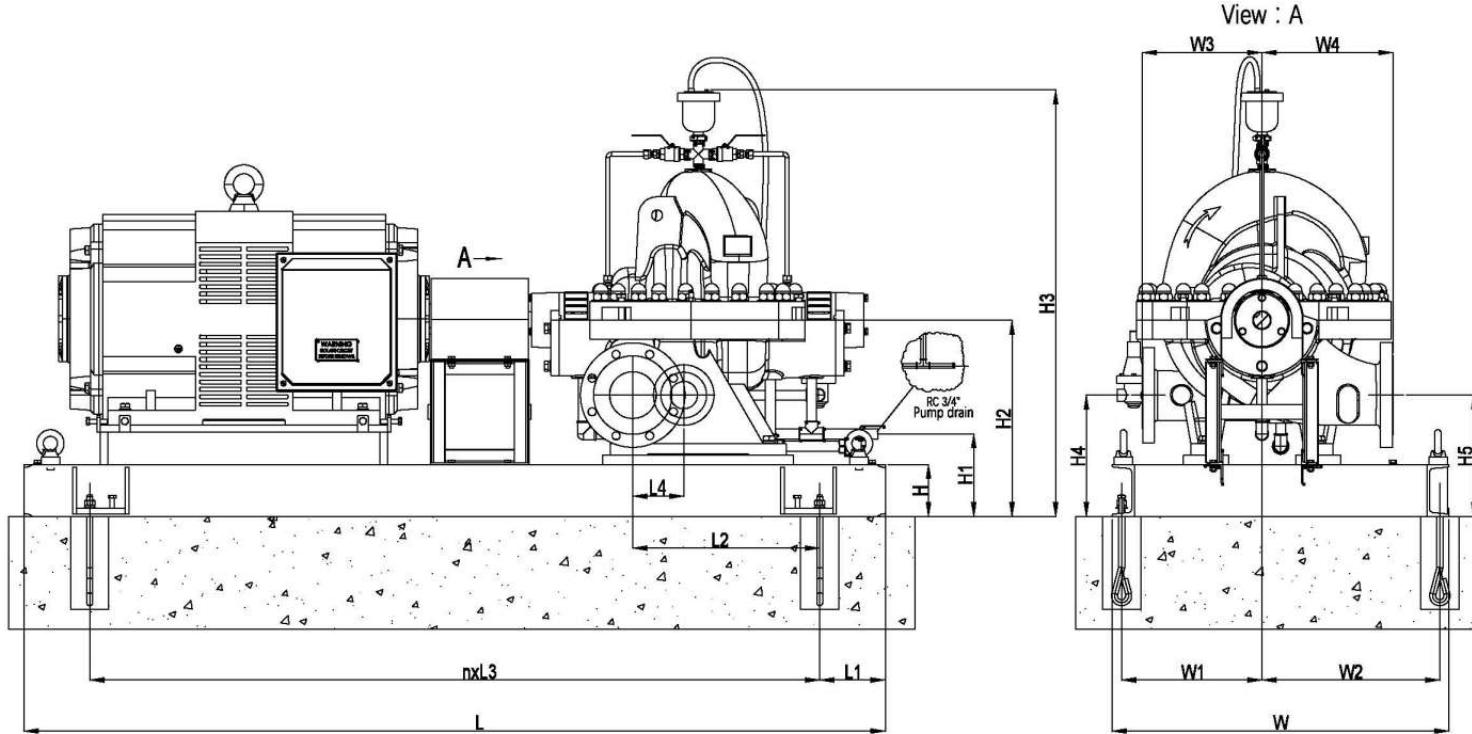
Ahead Beyond



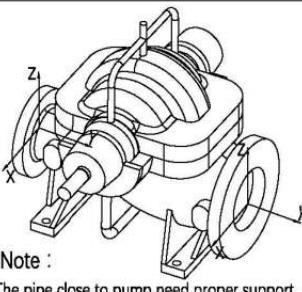
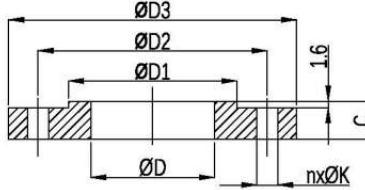
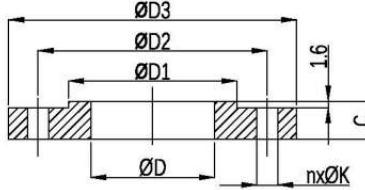
OUTLINE DIMENSIONS - MULTI STAGE

ELECTRIC MOTOR DRIVEN FIRE PUMP SETS

CNPA200-150-450X2



Motor model	Dimensions (Unit:mm)																Anchor bolt	Anchor bolt box	
	L	L1	L2	n	L3	L4	W	W1	W2	W3	W4	H	H1	H2	H3	H4	H5		
F-TDC447T250U4B	2700	300	555	3	700	230	1100	525	525	500	500	160	230	685	1468	385	405	8-M20x400	8-120x120x400
F-TDC449T350U4B	2700	300	555	3	700	230	1100	525	525	500	500	160	230	685	1468	385	405	8-M20x400	8-120x120x400
F-TXC449T250U4B	2800	275	580	3	750	230	1100	520	520	500	500	180	250	705	1488	405	425	8-M20x400	8-120x120x400
F-TXC449T300U4B	2800	275	580	3	750	230	1100	520	520	500	500	180	250	705	1488	405	425	8-M20x400	8-120x120x400
F-TXC586/T1400U4B	3100	305	550	3	830	230	1300	620	620	500	500	180	250	705	1488	405	425	8-M20x400	8-120x120x400

The force and torque of the pipe						Flange specification												
 Note : The pipe close to pump need proper support. Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction															
			Fx	Fy	Fz													
	Inlet (8 INCH)	Pound	850	1100	700													
	Outlet (6 INCH)	Pound	560	700	460													
	Inlet (DN 200)	Newton	3780	4890	3110													
	Outlet (DN 150)	Newton	2490	3110	2050													
	Pump Flange	Unit	Axial Direction															
			Mx	My	Mz													
	Inlet (8 INCH)	Pound-Feet	2600	1300	1900													
	Outlet (6 INCH)	Pound-Feet	1700	870	1300	ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C					
Inlet (DN 200) Outlet (DN 150)						Inlet 8 INCH	203.2	303.2	330.2	381.0	12	25.4	41.1					
Inlet (DN 200) Outlet (DN 150)						Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5					

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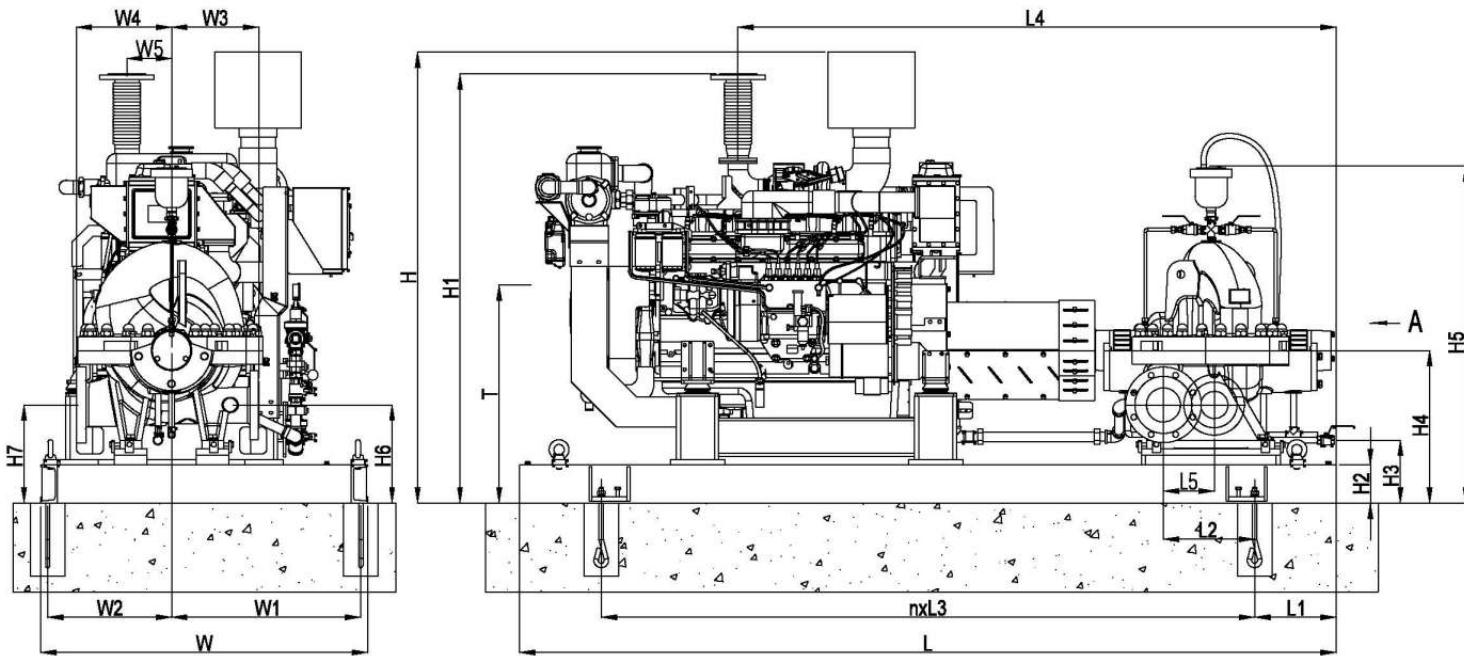
OUTLINE DIMENSIONS - MULTI STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA125-100-330X2



View: A



Diesel engine	Dimensions (Unit:mm)																				Anchor bolt	Anchor bolt box		
	L	L1	L2	n	L3	L4	L5	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T ^①		
NM6-110E	3000	300	355	3	800	2220	185	1200	695	455	320	355	318	1658	1577	140	245	560	1220	360	360	666	8-M16x300	8-120x120x300
NM6-110D	3000	300	355	3	800	2220	185	1200	695	455	320	355	318	1658	1577	140	245	560	1220	360	360	666	8-M16x300	8-120x120x300
NM6-108E	3000	300	375	3	800	2158	185	1100	575	475	320	355	330	1494	1625	140	245	560	1220	360	360	725	8-M16x300	8-120x120x300

①: Oil pump benchmark

The force and torque of the pipe							Flange specification																								
 Note : The pipe close to pump need proper support, Gravity from the inlet and outlet lines shall not be borne by the pump.	Pump Flange	Unit	Axial Direction			ANSI B16.1 250 lb RF	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	$\varnothing D_3$	n	$\varnothing K$	C																		
			Fx	Fy	Fz																										
	Inlet (5 INCH)	Pound	560	700	460																										
	Outlet (4 INCH)	Pound	320	400	260																										
	Inlet (DN 125)	Newton	2490	3110	2050																										
	Outlet (DN 100)	Newton	1420	1780	1160																										
	Pump Flange	Unit	Axial Direction																												
			Mx	My	Mz																										
	Inlet (5 INCH)	Pound-Feet	1700	870	1300																										
	Outlet (4 INCH)	Pound-Feet	980	500	740																										
	Inlet (DN 125)	Newton-meter	2300	1180	1760																										
	Outlet (DN 100)	Newton-meter	1330	680	1000																										

NOTE : ALL DIMENSIONS AND WEIGHTS ARE PRELIMINARY NOT FOR CONSTRUCTION USE. CERTIFIED AS BUILT DRAWINGS ARE AVAILABLE UPON REQUEST.

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Looking ahead, going beyond expectations

Ahead Beyond



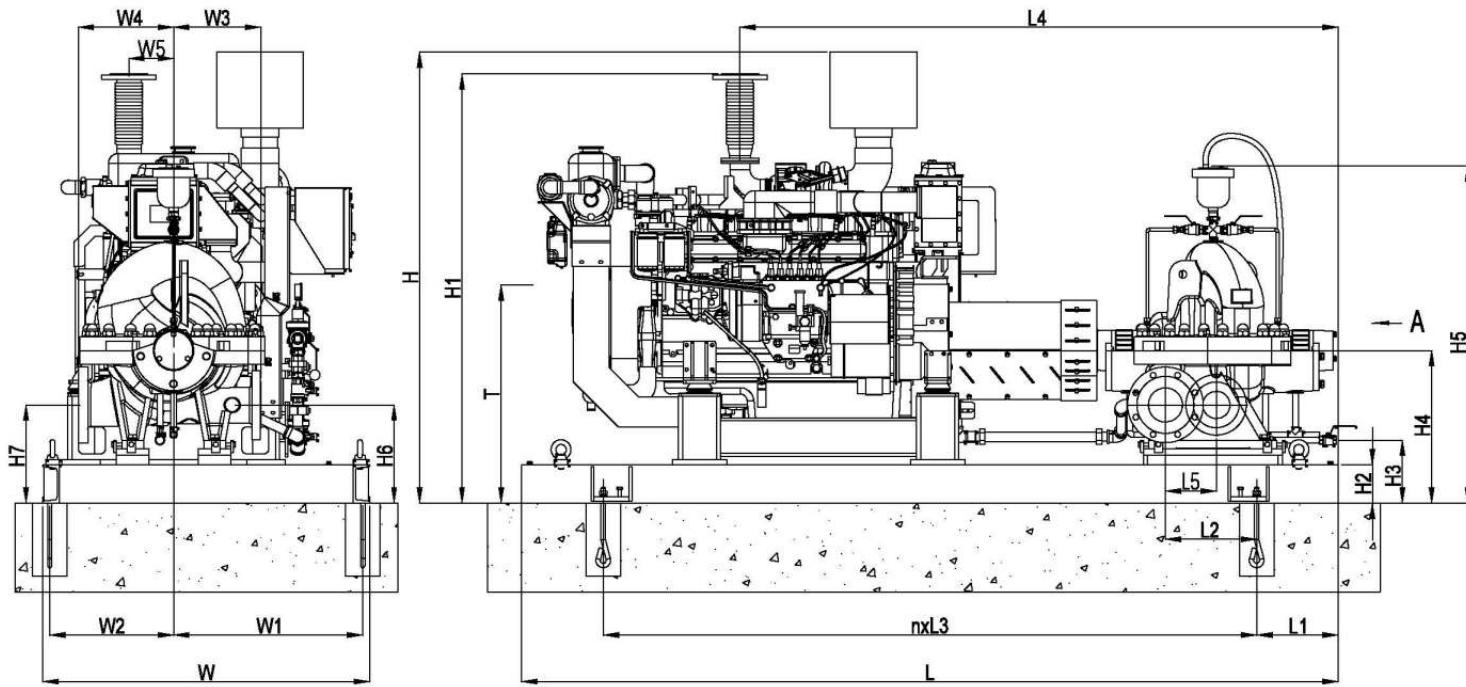
OUTLINE DIMENSIONS - MULTI STAGE

DIESEL ENGINE DRIVEN FIRE PUMP SETS

CNPA200-150-450X2



View: A

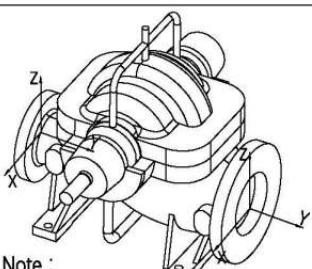


Diesel engine	Dimensions (Unit:mm)																				Anchor bolt	Anchor bolt box		
	L	L1	L2	n	L3	L4	L5	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6	H7	T①		
NM6-114B	3200	300	495	4	650	2370	230	1300	700	550	500	500	300	1900	1710	160	245	700	1550	400	420	1011	10-M20x400	10-120x120x400
NM6-135B	3500	250	545	4	750	2681	230	1250	675	525	500	500	372	1763	1779	160	245	700	1550	400	420	890	10-M20x400	10-120x120x400
NM6-135	3500	250	545	4	750	2681	230	1250	675	525	500	500	372	1763	1779	160	245	700	1550	400	420	890	10-M20x400	10-120x120x400
NM6-128B	3400	300	495	4	700	2518	230	1300	700	550	500	500	340	1665	1660	160	245	700	1550	400	420	962	10-M20x400	10-120x120x400
NM6-128	3400	300	495	4	700	2518	230	1100	550	500	500	340	1865	1660	160	245	700	1550	400	420	962	10-M20x400	10-120x120x400	

①: Oil pump benchmark

The force and torque of the pipe

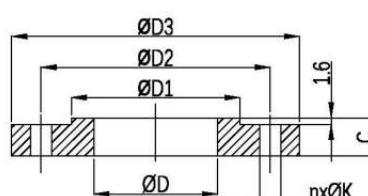
Flange specification



Note :
The pipe close to pump need proper support,
Gravity from the inlet and outlet lines shall
not be borne by the pump.

Pump Flange	Unit	Axial Direction		
		Fx	Fy	Fz
Inlet (8 INCH)	Pound	850	1100	700
Outlet (6 INCH)	Pound	560	700	460
Inlet (DN 200)	Newton	3780	4890	3110
Outlet (DN 150)	Newton	2490	3110	2050

Pump Flange	Unit	Axial Direction		
		Mx	My	Mz
Inlet (8 INCH)	Pound-Feet	2600	1300	1900
Outlet (6 INCH)	Pound-Feet	1700	870	1300
Inlet (DN 200)	Newton-meter	3530	1760	2580
Outlet (DN 150)	Newton-meter	2300	1180	1760



ANSI B16.1 250 Lb RF	ØD	ØD1	ØD2	ØD3	n	ØK	C
Inlet 8 INCH	203.2	303.2	330.2	381.0	12	254	41.1
Outlet 6 INCH	154.2	246.1	269.7	317.5	12	22.3	36.5

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FIRE PUMP DRIVER - ELECTRIC MOTORS

UL LISTED ODP / TEFC ELECTRIC MOTORS

F-TDC / F-TXC SERIES



These Fire Pump Duty (ODP / TEFC) motors are designed for environments where dirt and moisture are minimal and provide maximum ventilation and heat dissipation. Design B torque and high efficiency was designed to meet the market requirements of optimized and rugged motors, complying with international standard dimensions, safety and performance requirements.

Standard Features

- Open Drip Proof (ODP) / Total Enclosed Fan Cooled(TEFC)
- Frame sizes: ODP-254T through 449TS NEMA Frames
TEFC-143T through 449TS NEMA Frames
- Number of poles: 2, 4 or 6
- Voltage: 380/400/415V 50Hz
208-230/460V 60Hz or 575V 60Hz
- NEMA Dimensions
- NEMA design 'B' ratings
- Service Factor: 1.15
- Class F insulation for all frames, Class B rise
- Continuous Duty (S1)
- 50°C ambient temperature
- Motors are supplied with ball bearings as standard.

Certifications

UL 1004-1, Rotating Electrical Machines - General Requirements
UL 1004-5, Fire Pump Motors



FIRE PUMP DRIVER - DIESEL ENGINES

UL LISTED / FM APPROVED DIESEL ENGINES



UL Listed / FM Approved Diesel engine-driven fire pumps are often used where there is insufficient or unreliable electrical power for an electric motor-driven fire pump.

They are used in conjunction with, or in addition to, electric motor-driven fire pumps as the best combination for reliable pumping systems.

Certifications

UL 1247, Diesel Engines for Driving Stationary Fire Pumps

FM Approvals Class: 1333, Diesel Engines for Fire Pump Drivers

EQUIPMENT	STANDARD	OPTIONAL
Air Cleaner		
Alarm		
Alternator		
Coupling		
Crankcase Ventilation		
Engine Heater		
Exhaust Flex Connection		
Exhaust Protection		
Flywheel Housing		
Flywheel Power Take Off		
Fuel Connections		
Fuel Filter		
Fuel Injection System		
Governor, Speed		
Heat Exchanger		
Instrument Panel		
Junction Box		
Lube Oil Cooler		
Lube Oil Filter		
Lube Oil Pump		
Manual Start Control		
Overspeed Control		
Raw Water Cooling Loop w/ Alarms		
Raw Water Solenoid Operation		
Run - Stop Control		
Starters		
Throttle Control		
Water Pump		

DIESEL ENGINE SPECIFICATION SHEET
TO BE PROVIDED AS PER SELECTED ENGINE MODEL

DIESEL ENGINE SPECIFICATION SHEET
TO BE PROVIDED AS PER SELECTED ENGINE MODEL



Factors such as the nature of the water supply or leakage through the system piping can cause pressure drops or fluctuations within the fire protection system. These pressure fluctuations can cause the fire pump to operate even though the fire protection system has not been activated – that is, a sprinkler did not activate, or a standpipe valve was not opened.

Fire pumps are not intended to operate for short durations to maintain system pressure and the use of fire pumps as pressure maintenance devices is prohibited.

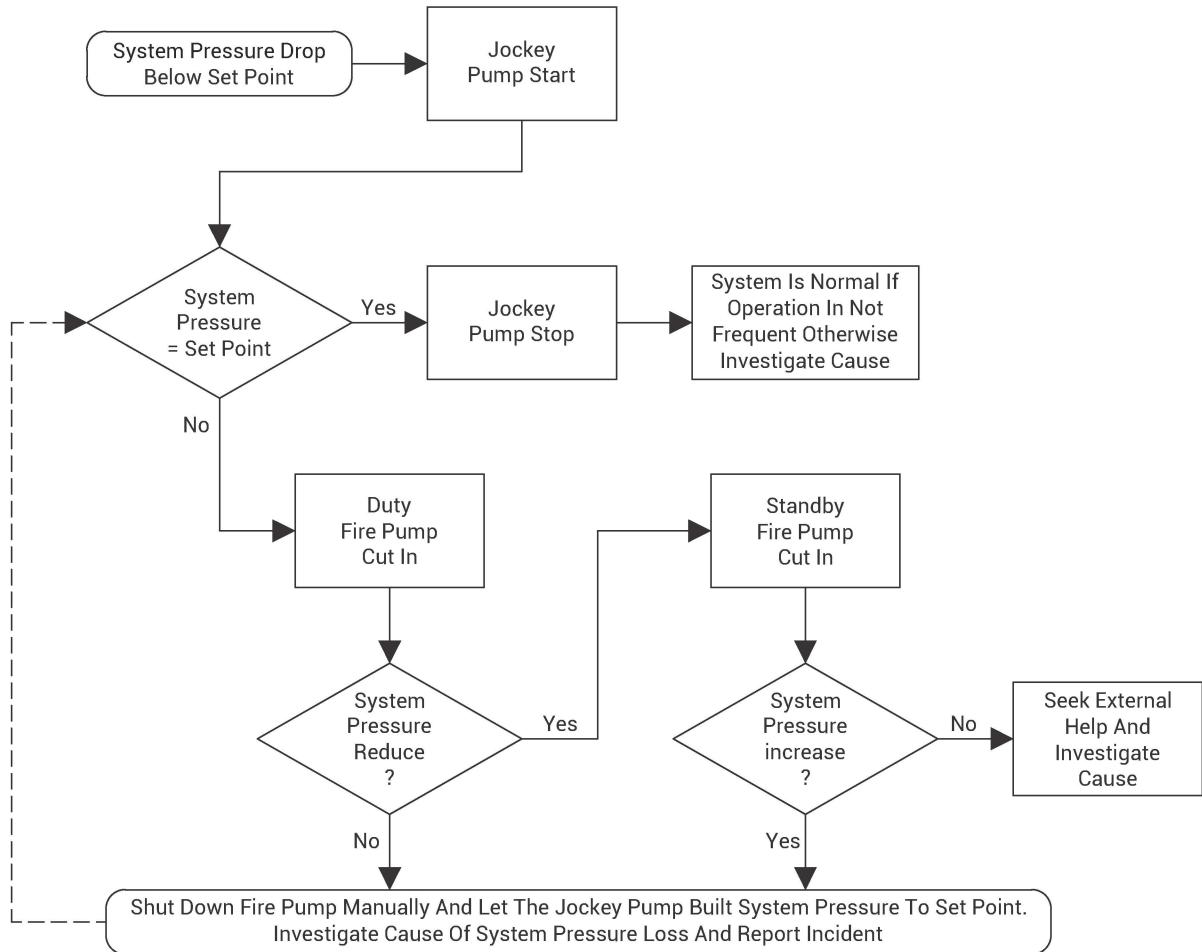
Most piping systems generally have a small amount of leakage causing drop of system pressure. To prevent the fire pump from starting to maintain the system pressure for this non-fire related need, a small jockey pump controller is pressure activated and the pump sized to maintain the system pressure at the minimum allowable leakage rate.

Pumps meeting these requirements is acceptable for use as jockey pump.

Pressure maintenance pumps shall not be required to be listed.
Pressure maintenance pumps shall be approved.

EVMSG - vertical multistage centrifugal pumps.

Fire Pumps Operation Sequence





FIRE PUMP CONTROLLERS

Electric motors and diesel unit are furnished with a manual or combined manual and automatic controller. Upon a manual or automatic signal, a controller will engage the pump driver, and monitor all key functions.

Most controllers are furnished for automatic operation, and initiate starting by sensing a pressure drops in the system by way of a sensing line.

All controllers are available with a wide variety of options to suit individual job needs.

DIESEL ENGINE DRIVEN FIRE PUMP CONTROLLERS

Combined automatic and manual based diesel engine fire pump controllers are intended for starting and monitoring fire pump diesel engines. They are available for use with 12 or 24 volt negative ground systems using lead acid or nickel-cadmium batteries. The controller monitors, displays and records fire pump system information.



UL Listed / FM Approved
Diesel Engine Driven
Fire Pump Controller

ELECTRIC MOTOR DRIVEN FIRE PUMP CONTROLLERS

Fire Pump Controllers are assembled, wired and tested as a unit. The controllers are UL Listed and FM Approved. They completely conform to the latest edition of NFPA-20, Standard for the Installation of Centrifugal Fire Pumps and NFPA-70, National Electrical Code.

The most two used starting methods are (Across the line & Wye-Delta). Soft start starting method and Automatic transfer switch controller is also available on request (Please contact our technical department).



UL Listed / FM Approved
Electric Motor Driven
Fire Pump Controller

JOCKEY PUMP CONTROLLERS

Jockey Pump Controllers are intended for use with fire pump systems. They are used for pressure maintenance in fire pump installations to prevent unnecessary cycling of the main fire pump. The most two used starting methods are (Across the line & Wye-Delta) (Please contact our technical department).



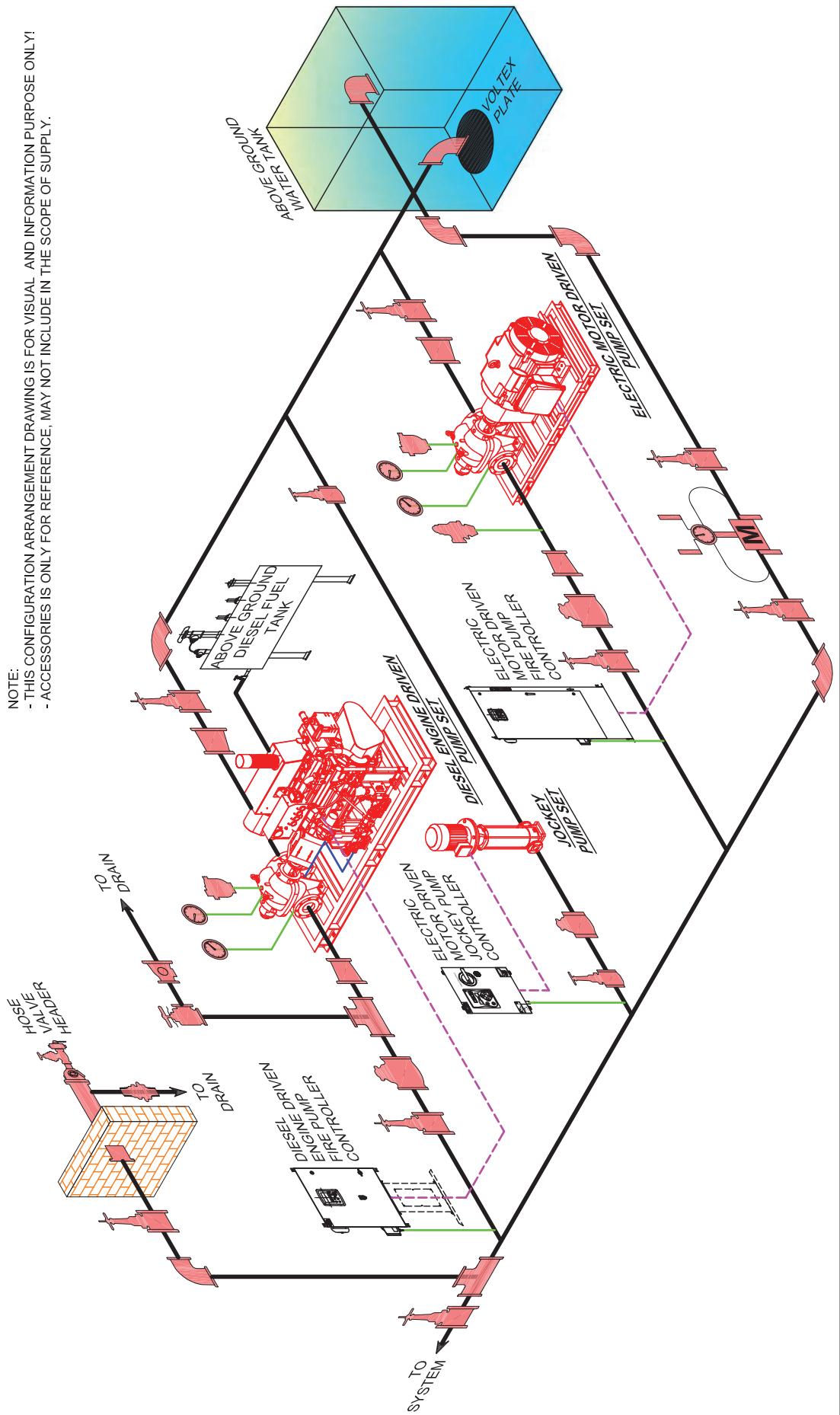
UL508A
Jockey Pump Controller



ACCESSORIES AND CONFIGURATIONS

	ELBOW		SUCTION GAUGE		CHECK VALVE		DRIP BALL VALVE		ELECTRIC CONNECTION
	OS&Y GATE VALVE		DISCHARGE GAUGE		TEE		HOSE VALVE, CAP & CHAIN		SENSING LINE
	ECCENTRIC REDUCER		CASING RELIEF VALVE		MAIN RELIEF VALVE		GATE VALVE		PIPES
	AUTOMATIC AIR RELEASE VALVE				CONCENTRIC REDUCER		ENCLOSE CONE		FLOW METER
									RAW WATER COOLING LINE

NOTE:
- THIS CONFIGURATION ARRANGEMENT DRAWING IS FOR VISUAL AND INFORMATION PURPOSE ONLY!
- ACCESSORIES IS ONLY FOR REFERENCE, MAY NOT INCLUDE IN THE SCOPE OF SUPPLY.





ACCESSORIES

- 1. Gauges:** A suction gauge and discharge gauge are furnished for each Fire Pump with a minimum dial size of 3½ inch. The pressure range shall be twice the working pressure of the pump with a minimum of 200 Psi.
- 2. Automatic Air Release Valve:** The automatic air release valve releases air that may accumulate in the volute of horizontal split case pumps. The valve is not required in the self-venting end suction pumps. The minimum size is ½ inch inlet and the valve is installed at the top of the volute.
- 3. Casing Relief Valve:** The casing relief valve provides a vital function on electric driven units. When set properly, the valve permits enough water to discharge to a drain to prevent the pump from over-heating when operating at conditions near shutoff. The valve will have an adjustable range which is set in the field. Engine driven units do not require a casing relief valve for which water is continuously drawn through the pump for engine heat exchanger cooling purposes.
- 4. Pressure Sensing Lines:** The sensing lines can be bronze, copper, or stainless steel pipe.
- 5. Flow Meter System:** In place of, or, in addition to the hose valve header with hose valves, EESP offers a complete line of FM-Approved Flow Meters. The flow meters can adequately test the fire pump performance in case of limited water supply.
- 6. Eccentric Suction Reducer:** The suction piping is sized such that the NPSH available will be greater than 19ft. absolute, when operating at 150% of the rated capacity, but not less than the minimum values given by NFPA 20. The piping size may be different than the pump suction size necessitating the need for an eccentric reducer. An eccentric fitting is used to prevent the possibility of air pockets forming in the line as would be experienced if a concentric fitting were used.
- 7. Concentric Suction Reducer:** The discharge pipe size shall not be less than the values given by NFPA. These values are generally different than pump discharge size and hence the need for an increasing or reducing fitting.
- 8. Main Relief Valve:** Pumps which are connected to diesel engine or steam turbine drivers, shall be equipped with a listed main relief valve. The main relief valve size shall be greater than or equal to the values given in NFPA 20. The valves are set to prevent a pressure on the fire protection system greater than it can withstand. Spring loaded and pilot operated types are available in UL/FM Designs. The main relief valves are also used when the shutoff pressure plus the static suction pressure exceeds the rated system pressure.
- 9. Enclosed Waste Cone:** The enclosed or open waste cone is connected directly to the main relief valve and provides a visual indication of the water discharging through the line. The fitting also increases the line size from the relief valve as required by NFPA 20. The enclosed cone is provided with a sight glass.
- 10. Diesel Engine Accessories:**
 - a. Fuel Tank:** Fuel tanks for diesel are sized to equal or exceed the engine rated HP value. As an example, a 115 HP diesel engine would be furnished with a 115 gallon or larger fuel tank.
 - b. Fuel System:** A standard fuel system contains a lockable fill cap, fuel strainer, fuel gauge, vent cap, supply line valve, flexible connectors for fuel supply and return, and other miscellaneous fittings. All the connecting piping is generally furnished by the installing contractor.
 - c. Cooling Water Line:** NFPA 20 – requires engine for Fire Pump services to be cooled by a water-cooled heat exchanger, other standards accept cooling using radiator system.
 - d. Batteries:** Diesel engines for Fire Pump service are furnished with a back-up battery system. Two sets of heavy duty diesel starting batteries are furnished with capacities to crank the engine through a NFPA 20 cranking cycle. Battery cables are furnished to allow placement of the batteries immediately adjacent to the engine.
 - e. Flexible Exhaust connectors:** A flexible connector is provided at the exhaust outlet of the engine. The connector relieves thermal expansion strains and helps dampen transmitted engine vibrations.
 - f. Exhaust Silencer:** An industrial exhaust silencer providing 10-15 DBA. reduction is furnished with each diesel unit. Other grades are available to suite individual job requirements.
- 11. Hose Valves:** Hose valves are UL/FM approved and are furnished in the required quantity for a given Fire Pump size by NFPA 20. The threads will be generally according to NPT Standard with caps and chains.

NFPA Minimum Piping Sizes (Nominal) In Inches

Pump Rating (gpm)	Suction	Discharge	Relief Valve	Relief Valve Discharge	Meter Device	Number and Size of		Hose Header Supply
						Hose Valves	Nonthreaded Connections	
300	4	4	2½	3½	3½	1 — 2½	1 — 2½	3
400	4	4	3	5	4	2 — 2½	1 — 5	4
450	5	5	3	5	4	2 — 2½	1 — 5	4
500	5	5	3	5	5	2 — 2½	1 — 5	4
750	6	6	4	6	5	3 — 2½	1 — 5	6
1000	8	6	4	8	6	4 — 2½	1 — 5	6
1250	8	8	6	8	6	6 — 2½	1 — 5	8
1500	8	8	6	8	8	6 — 2½	1 — 5	8
2000	10	10	6	10	8	6 — 2½	2 — 5	8
2500	10	10	6	10	8	8 — 2½	2 — 5	10
3000	12	12	8	12	8	12 — 2½	2 — 5	10
3500	12	12	8	12	10	12 — 2½	3 — 5	12
4000	14	12	8	14	10	16 — 2½	3 — 5	12
4500	16	14	8	14	10	16 — 2½	3 — 5	12
5000	16	14	8	14	10	20 — 2½	3 — 5	12

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SINGAPORE PTE. LTD.**

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Building Service & Industrial Company
No. 1 Tuas Link 2
Singapore 638550
Tel 65-6862-3536 Fax 65-6861-0589, 65-6863-1201
eepsales@ebara.com
<https://www.ebara.com.sg>