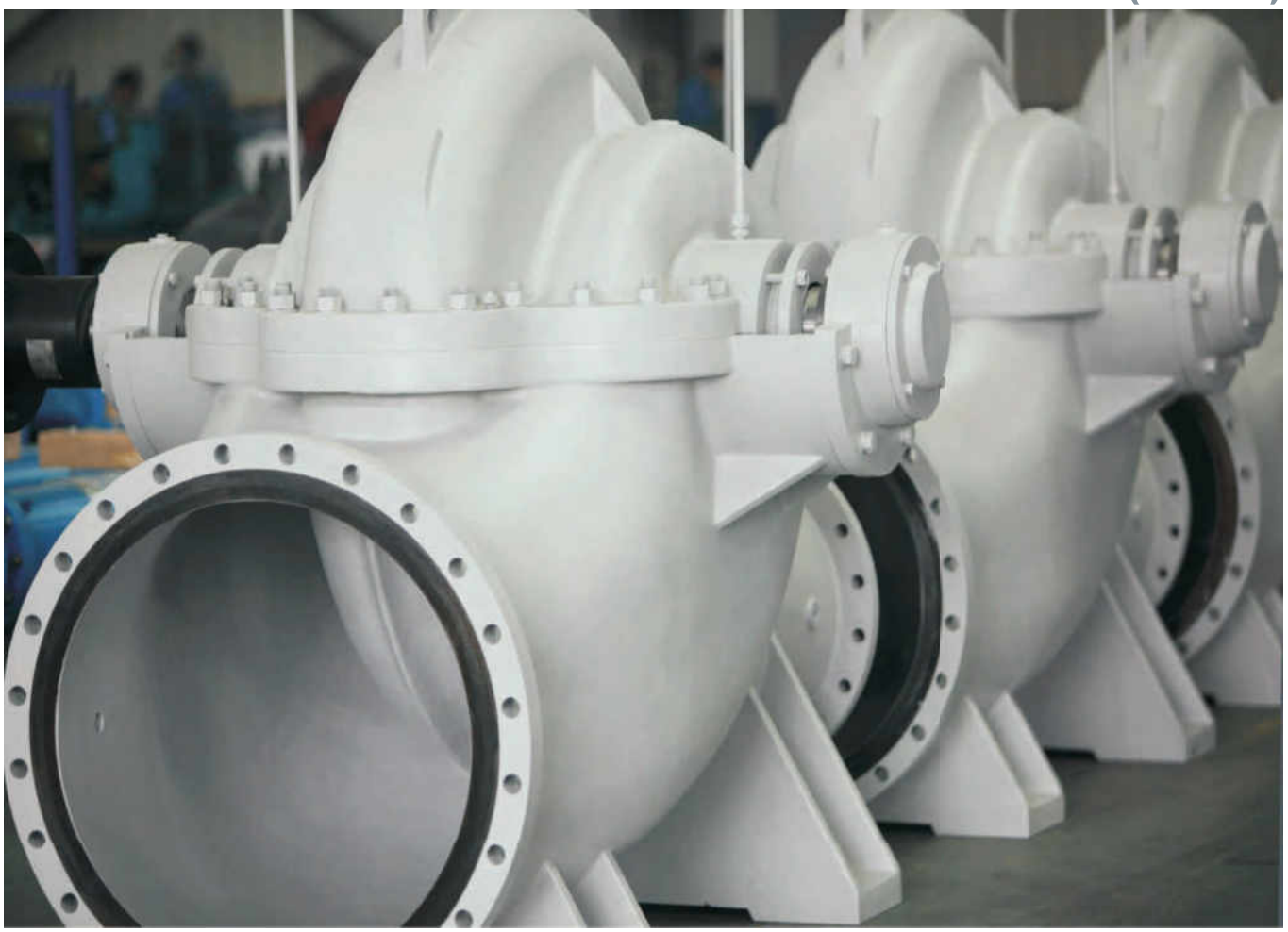
NSC Single Stage Double Suction Split Casing Centrifugal Pump

Technical Manual

(50HZ)



CNP CHANGSHA CO., LTD.

Brief Introduction

Applications

● Clean water or medium similar to water in physical and chemical properties:

Water supply	Drainage	Irrigation	Power station
Hydropower station	Fire-fighting	Air-conditioning	Building Industry
Marine applications	All kinds of water for industrial processes		

● Abrasive media:

Sand water	Oxide scale water	Others

● Corrosive medium:

Desalination	Bittern	sea water	Others

● High temperature medium:

Heating network circulating water	All kinds of chemical liquid

● Petroleum and chemical liquids (according to API610 BB1):

Crude oil and refined oil	Oil loading and unloading of oil terminal	All kinds of chemical liquid

Specification

Capacity	Q	: 50~20000 m^3/h
Head	H	: 10 ~ 230m
Suction Dia	DN	: 100 ~1400mm
Discharge Dia	DN	: 80~1200mm
Operating Pressure	P	: ≤5MPa
Operating Temperaturet	t	: -15℃ ~ +200℃ (above 80℃, pls consult CNP)

Abrasive medium concentration : ≤4%

Designation

NSC 200 - 125 - 300 V

- V — Vertical Design (No "V" is horizontal)
- 300 — Nominal impeller dia. (mm)
- 125 — Discharge dia. (mm)
- 200 — Suction dia. (mm)
- NSC — Series

Structure Design

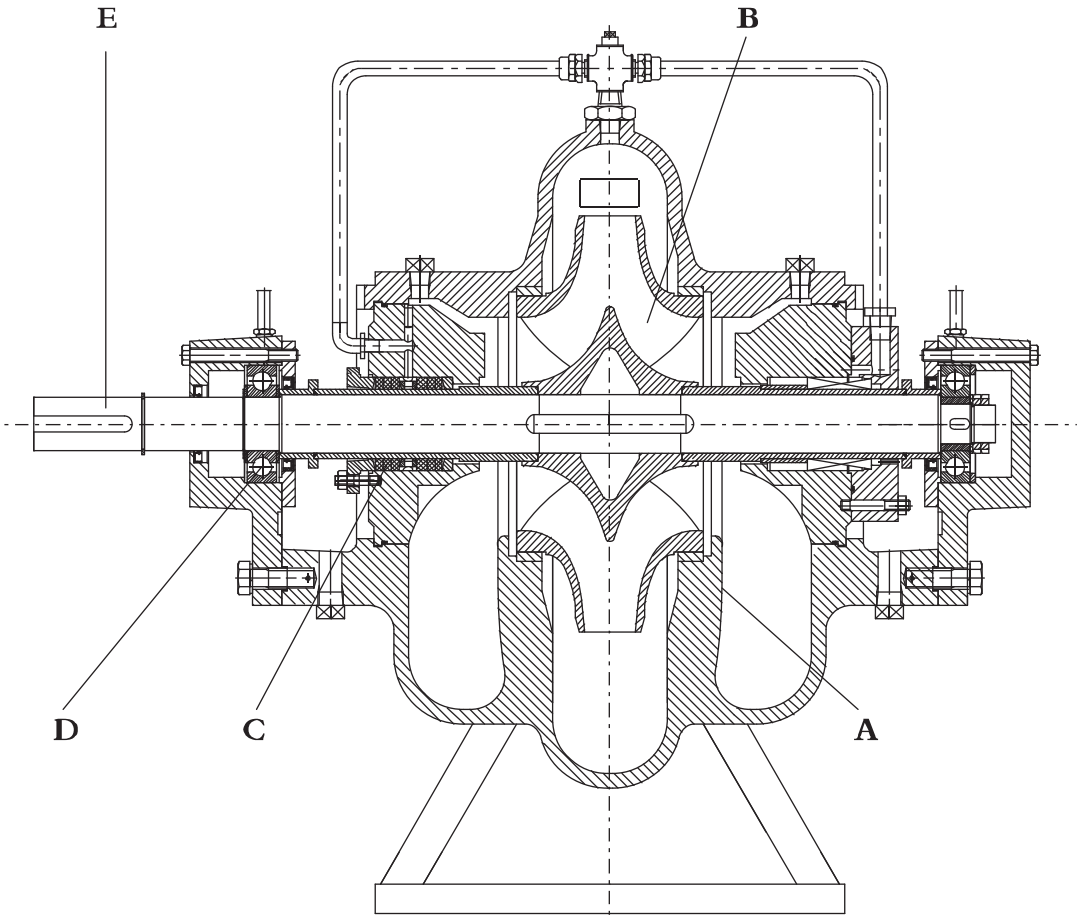
NSC is Single stage, axially split volute casing pump with double flow radial impeller, for horizontal and vertical installation. Drive shaft end of the horizontal pump optionally on the left or right side. Flanges drilled to GB, ISO, DIN, BS or ANSI.

Bearing

Horizontal: Grease lubricated ball bearings on both side, oil lubrication is optional. For the big size pump, sliding bearing is available.

Vertical: Grease lubricated ball bearings

Configuration Features



A. Casing

a. In-line axially split design which permits removal of the complete rotor without moving the pipe and motor
b. Short distance between bearings
c. Leak-tight due to compact joint flange with long, prestressed bolts
d. Counter-rotation possible with similar parts
e. Double volute casing reduces radial forces on the impeller and consequently the bearing loads
f. Easy mounting self-aligning upper casing
g. Flange drilled to ISO, DIN, BS or ANSI
h. Smooth surface inside and epoxy coating as required
I. Replaceable wear rings protect the casing at the impellerrunning clearances
j. Excellent efficiencies and outstanding NPSH improved by CFD
k. Heavy duty casing design for high working pressure

B. Impeller

a. Computer-optimized double entry impellers
b. Minimal axial thrust due to double-entry impeller
c. Impeller is statically and dynamically balanced according to ISO1940
d. Optional impeller wear rings
e. New vane passage with excellent hydraulic characteristics high-performance improved by CFD

C. Seal

a. Asbestos-free, potable water quality soft-packed stuffing boxes
b. Unbalanced mechanical seal, according to DIN24960 Balance mechanical seal for operating pressure >16 bar on required
c. Cartridge-type mechanical seal on required

D. Bearing

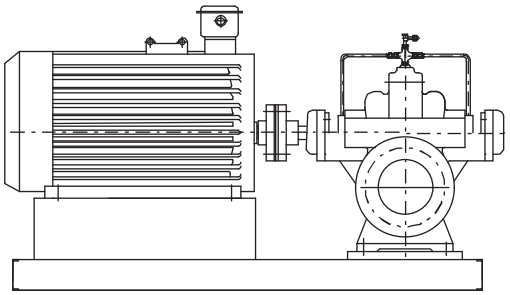
a. SKF covered, sealed for life grease lubricated antifriction bearings for long service life
b. Open gland, enough space for service activities
c. Optional: oil lubrication with constant level oiler

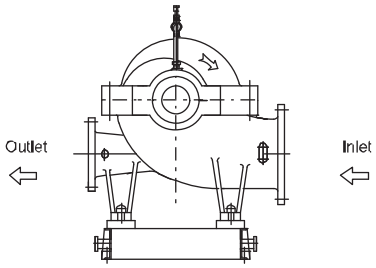
E. Shaft

a. Heavy duty shaft completely sealed and dry for zero corrosion
b. Short and rigid with negligible vibrations
c. Replaceable shaft protecting sleeves
d. No threads exposed to pumped medium, long operating life and no corrosion
e. Adjustment-free assembly
f. Quick and easy assembly/dismantling of the rotor components due to elastically prestressed mountings
g. Maximum interchangeability shafts design entire series for 2900rpm and 1450rpm model just six shafts and six bearings assemblies

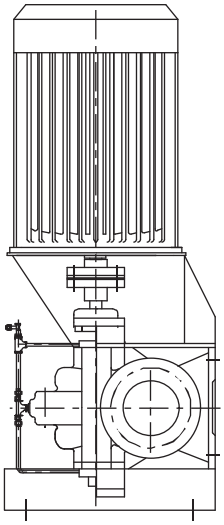
Pump and Motor Arrangement

Horizontal

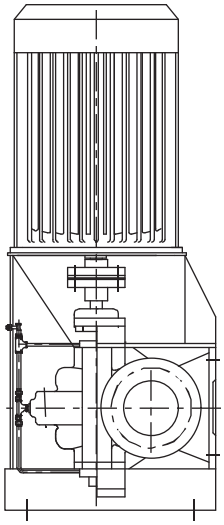




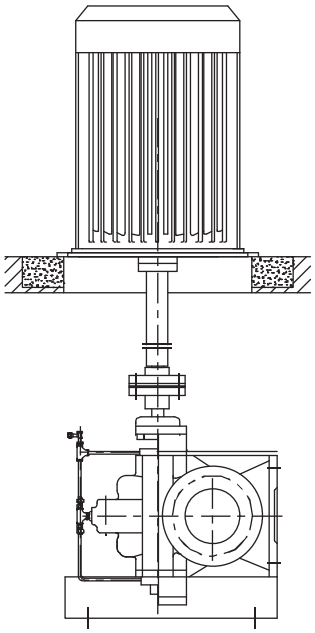
Vertical



TB



TK

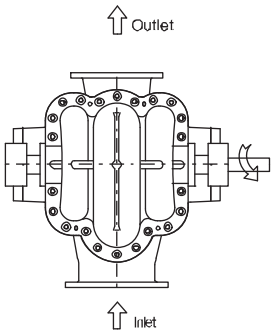


TJ

Note：CNP chooses the TB or TK according to the motor size.

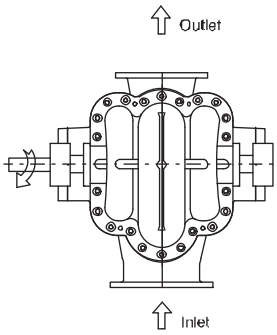
Direction of Rotation and Flow Direction

Horizontal



Anticlockwise viewed from the drive end

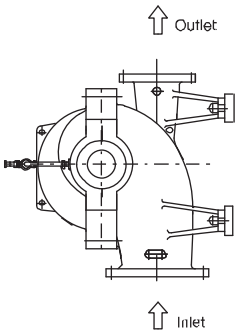
CCW



Clockwise viewed from the drive end

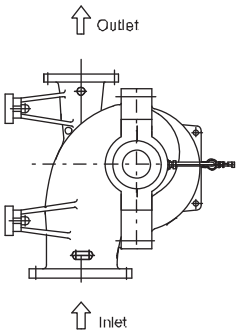
CW

Vertical



Anticlockwise viewed from the drive end

CCW



Clockwise viewed from the drive end

CW

Standard Materials

Medium / Name	Clear water	Water with mud and sand/ Oxide scale water /Sewage/ Saline water	Sea water	Hot water	Petrochemical liquids
Casing	Cast Iron	Nickel chromium cast iron / Wear resistant cast iron/ cast steel + Wear-resistant coating	Duplex stainless steel	Ductile CI /cast steel /Stainless steel	According to API610 I-1,I-2 S-5, S-8 C-6,A-7 A-8,D-1 D-2
Impeller	CI/Bronze /Stainless steel	Ductile CI / Stainless steel	Duplex stainless steel	Stainless steel	
Bearing housing	Cast Iron	Cast Iron	Cast Iron	Cast Iron	
Shaft	SS420	SS420	Duplex stainless steel	Stainless steel	
Wear ring	Cast Iron /Bronze	Ductile CI /SS420	Bronze / Duplex stainless steel with hardening treatment	Ductile CI /cast steel	
Shaft sleeve	SS420	SS420	Duplex stainless steel	Cr steel	
Shaft seal	Packing /Mechanical seal	Packing/ Mechanical seal	Mechanical seal	Mechanical seal	

Note:The materials of pump parts are chose according to the pressure rating, application, medium, operating temperature and customer requirements etc.

Technical Data

Shaft Diameter, Shaft Seal and Bearing

Unit : mm, unless other wise stated

Model	Shaft dia.	Nominal dia. packing/ mechanical seal d	Sealed chamber D	Sealed chamber L	SKF bearing	Mechanical seal	Pump structure	Nameplate
NSC125-80-210	35	50	75	72	6307	M74N/50-G92-Q2BVV (Mechanical Seal Type B)	Horizontal Installation Type C	40X63
NSC125-80-270								40X63
NSC125-80-350								40X63
NSC150-100-250								40X63
NSC150-100-320								40X63
NSC150-100-400								40X63
NSC200-125-240	45	60	85	82	6309	M74N/60-G92-Q2BVV (Mechanical Seal Type B)	Horizontal Installation Type C	40X63
NSC200-125-300								40X63
NSC200-125-380								40X63
NSC200-125-480								40X63
NSC200-150-290								50X80
NSC200-150-360								50X80
NSC200-150-460	55	70	95	85	6311	M74N/70-G92-Q2BVV (Mechanical Seal Type B)	Horizontal Installation Type C	50X80
NSC200-150-570								50X80
NSC250-200-340								50X80
NSC250-200-430								63X100
NSC300-250-270								50X80
NSC300-250-280								50X80

Model	Shaft dia.	Nominal dia. packing/ mechanical seal d	Sealed chamber D	Sealed chamber L	SKF bearing	Mechanical seal	Pump structure	Nameplate
NSC250-200-530	65	80	112	93	6313	M74N/80-G92-Q2BVV (Mechanical Seal Type B)	Horizontal Installation Type C	63X100
NSC250-200-660								63X100
NSC300-250-390								63X100
NSC350-300-310								63X100
NSC350-300-330								63X100
NSC300-250-490	75	90	120	92	6315	M74N/90-G92-Q2BVV (Mechanical Seal Type A)	Horizontal Installation Type A	63X100
NSC300-250-610								63X100
NSC400-300-450								63X100
NSC400-350-360								63X100
NSC400-350-380								63X100
NSC500-400-400								63X100
NSC500-400-420								63X100
NSC300-250-780	85	110	150	125	6317	M74N/110-G92-Q2BVV (Mechanical Seal Type A)	Horizontal Installation Type A	63X100
NSC400-300-570								63X100
NSC400-300-700								63X100
NSC400-350-520								63X100
NSC500-400-660	100	135	180	150	Nu321 /6321	M74N/135-G92-Q2BVV (Mechanical Seal Type A)	Horizontal Installation Type B	100X160
NSC600-400-740								100X160
NSC700-600-680								100X160
NSC700-500-670								100X160
NSC600-500-550	80	115	160	170	6320	M74N/115-G92-Q2BVV (Mechanical Seal Type A)	Horizontal Installation Type A	80X125
NSC600-500-580								
NSC800-700-750	120	160	205	170	Nu326 /6326	M74N/160-G92-Q2BVV (Mechanical Seal Type A)	Horizontal Installation Type B	100X160

Note: Above values are valid for the pumps under normal pressure and temperature, if the medium temp. is more than 80℃ and the pressure excesses the pressure limits in the below table, pls consult CNP.

Pressure Limits

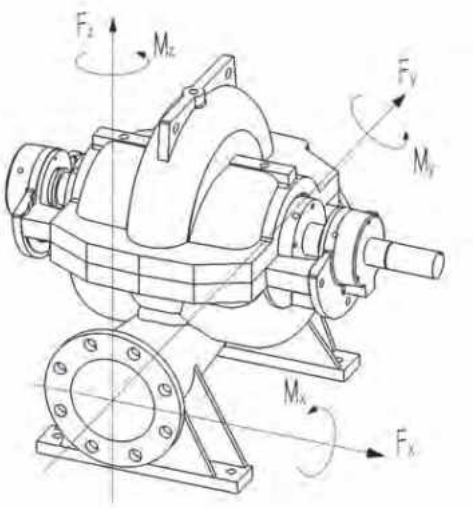
Standard test pressure: 1.5×H duty point + Suction pressure

Model	Permissible operating pressures (Mpa)	Model	Permissible operating pressures (Mpa)
NSC125-80-210	1.6	NSC300-250-390	1.6
NSC125-80-270	1.6	NSC300-250-490	1.6
NSC125-80-350	2.5	NSC300-250-610	2.5
NSC150-100-250	1.6	NSC300-250-780	3.0
NSC150-100-320	2.5	NSC350-300-310	1.6
NSC150-100-400	1.6	NSC350-300-330	1.6
NSC200-125-240	1.6	NSC400-300-450	1.6
NSC200-125-300	1.6	NSC400-300-570	1.6
NSC200-125-380	2.5	NSC400-300-700	2.5
NSC200-125-480	1.6	NSC400-350-360	1.6
NSC200-150-290	1.6	NSC400-350-380	1.6
NSC200-150-360	1.6	NSC400-350-520	1.6
NSC200-150-460	1.6	NSC500-400-400	1.6
NSC200-150-570	2.5	NSC500-400-420	1.6
NSC250-200-340	1.6	NSC500-400-660	2.5
NSC250-200-430	1.6	NSC600-400-740	1.6
NSC250-200-530	1.6	NSC600-500-550/580	1.0
NSC250-200-660	2.5	NSC700-500-670	1.6
NSC300-250-270	1.6	NSC700-600-680	1.0
NSC300-250-280	1.6	NSC800-700-750	1.0

Note: Values are valid for casing materials cast iron, for higher values, the other materials with better strength are available and consult CNP

Impeller,Nozzle Forces and Nozzle Moments

Model	Impeller Dimensions (mm)		Permissible Nozzle Forces	Permissible Nozzle Moments
	Free Passage +/-10%	Max. Diameter	Fx、Fy、Fz N	Mx、My、Mz Nm
NSC125-80-210	30	216	800	500
NSC125-80-270	25	270		
NSC125-80-350	22	345		
NSC150-100-250	30	254	1000	700
NSC150-100-320	24	325		
NSC150-100-400	21	423		
NSC200-125-240	48	250	1500	1000
NSC200-125-300	37	301		
NSC200-125-380	35	395	2000	1500
NSC120-125-480	29	491		
NSC200-150-290	52	290		
NSC200-150-360	44	370	2500	
NSC200-150-460	35	460		2000
NSC200 150 570	32	585	3000	
NSC250-200-340	57	338	4000	2750
NSC250-200-430	52	426		
NSC250-200-530	40	530		
NSC250-200-660	38	665		
NSC300-250-270	119	290		
NSC300-250-280	96	321		
NSC300-250-390	70	395		
NSC300-250-490	60	490		
NSC300-250-610	45	610		
NSC300-250-780	42	765		3000
NSC350-300-310	132	310		
NSC350-300-330	101	350		
NSC400 300 450	81	450		
NSC400-300-570	67	580	5000	
NSC400-300-700	65	700		
NSC400-350-360	149	370		
NSC400-350-380	122	382		
NSC400-350-520	90	558		
NSC500-400-400	180.6	400		
NSC500-400-420	180	425	5600	3750
NSC500-400-660	84.9	666		
NSC600-400-740	99	740	6300	4700
NSC600-500-550/580	243	580		5500
NSC700-500-670	130	672	7000	5800
NSC700-600-680	240	680		6300
NSC800-700-750	315.9	750	7700	7000



Note: Values are valid for casing materials cast iron, for casing material ductile cast iron use 1.4-fold value and for cast steel use 1.7-fold value
If require for the dimension of pump which is not shown in the above table, pls consult CNP.

Speeds

The Performance Range Chart shows the pump operating range, for higher speeds, pls consult CNP.

Vibrations

1.The normal operating range of pump is 0.4~1.25 times of rated capacity.

2.The vibration values of pump are according to ISO 2372-1974.

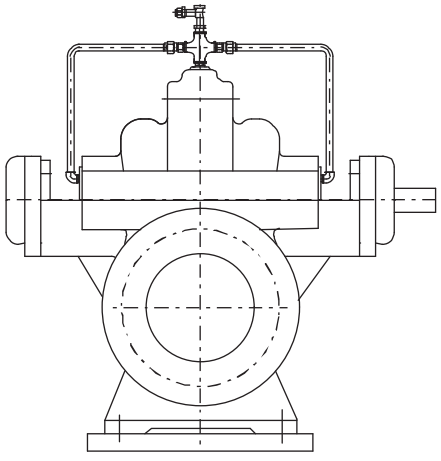
Paint Specifications

	Inside	Outside
Pre-treatment	Blasting (2 times)	
Primer coating	Epoxy or Zinc-Rich Primer	
Finish coating	Epoxy or Zinc-Rich Primer(wet parts)	Acrylic Enamel Normal NSC: RAL5015(Blue) Fire-Fighting Pump: RAL3000（Red）

Note: The epoxg coating is extra-charged.

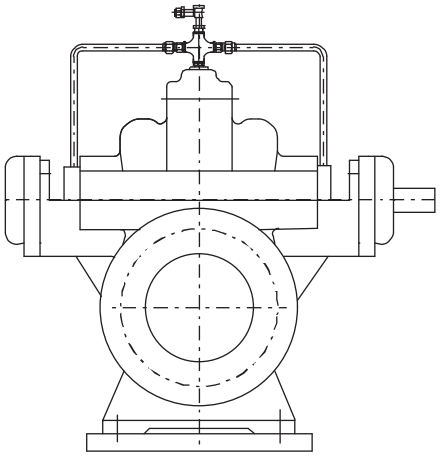
Arrangement

Sealing Water Pipes

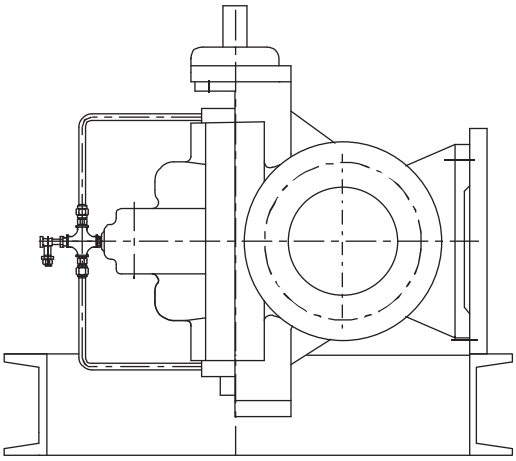


▲ 01 Flushing water piping stuffing box

Note: If H>80m, flushing water piping will have control valve(See fig.04)

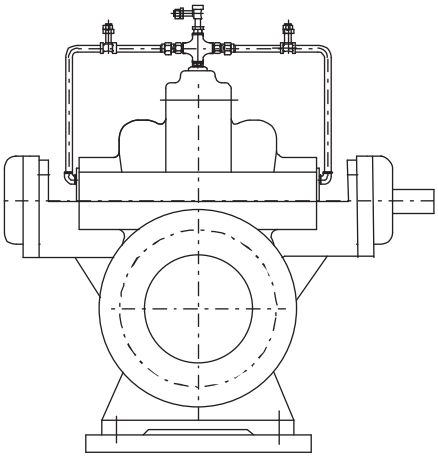


▲ 02 Flushing water piping mechanical seal

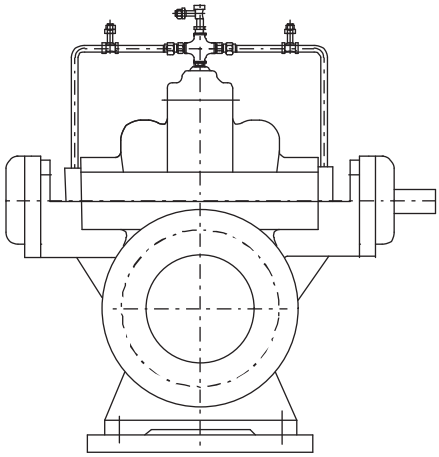


▲ 03 Flushing water piping mechanical seal (Vertical Installation)

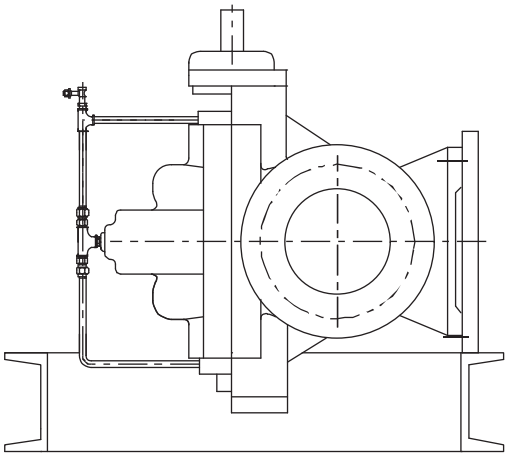
Venting Connections and Bearing Temperature Sensor (Vent valves are available as accessories)



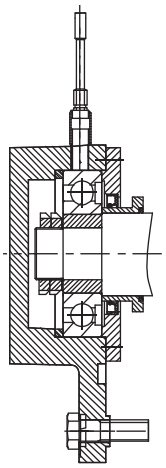
▲ 04 Flushing water piping stuffing box with vent valve



▲ 05 Flushing water piping mechanical seal with vent valve



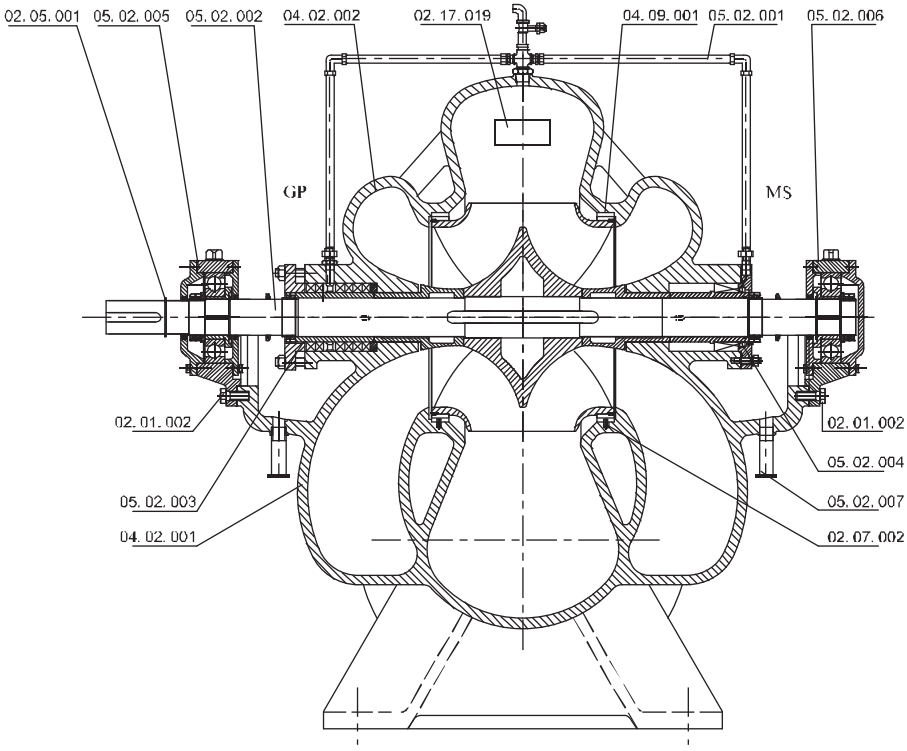
▲ 06 Flushing water piping and vent valve (vertical Installation)



▲ 07 Bearing temperature sensor (PT100)

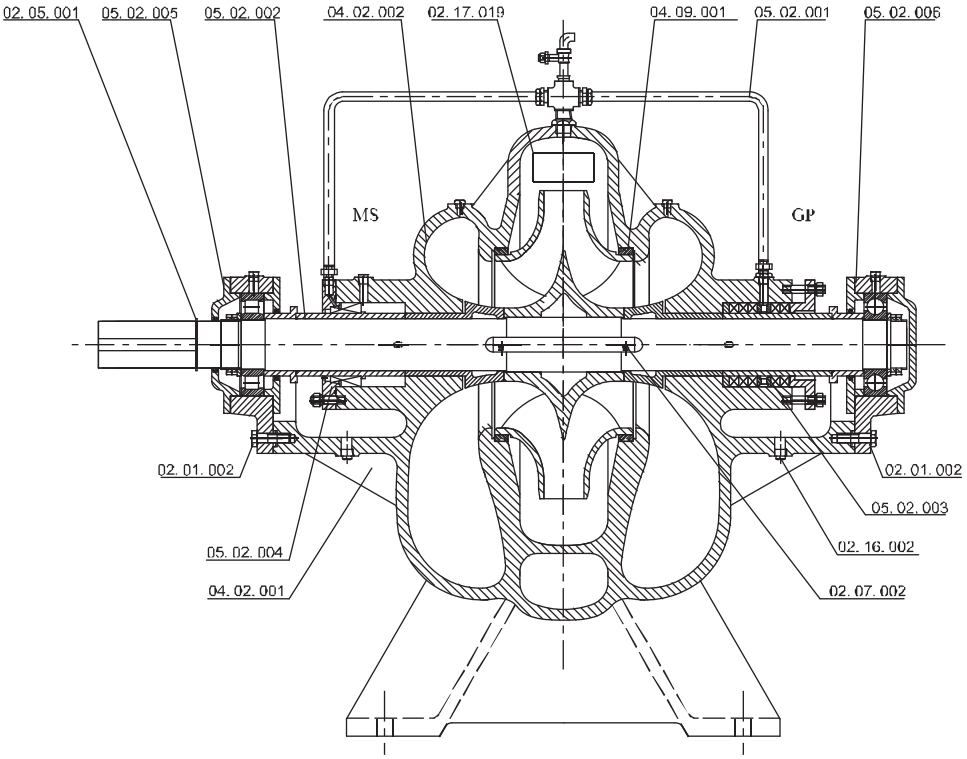
Sectional View ----NSC

Horizontal Installation



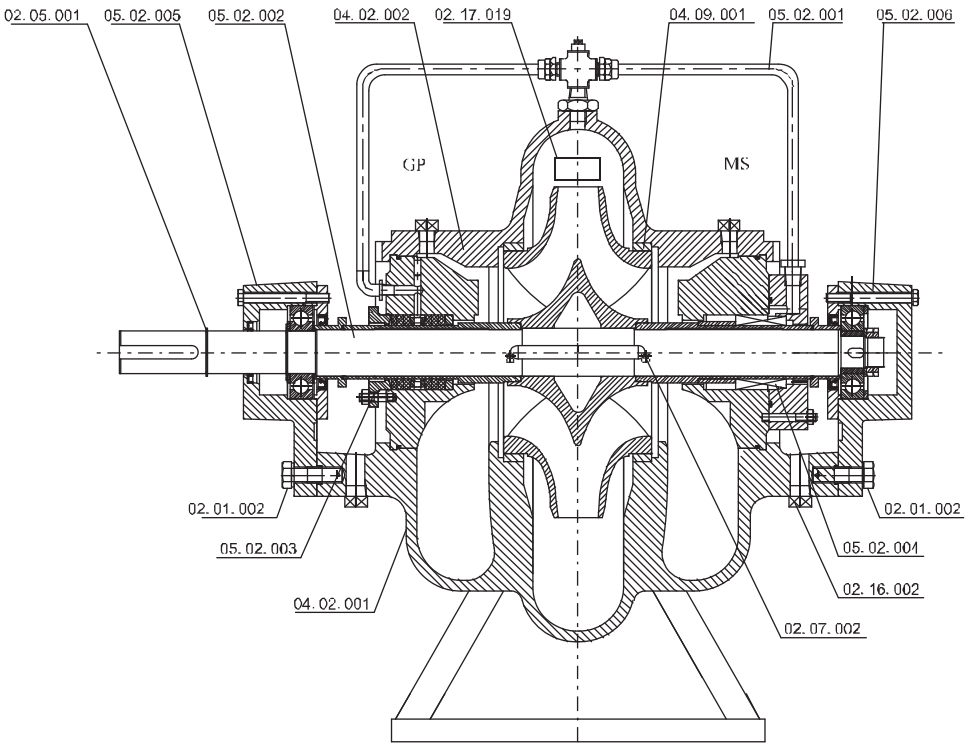
▲ Type A

Part No.	Part Name
02.05.001	Shaft Circlip
05.02.005	Bearing assembly (DE)
05.02.002	Rotor assembly
04.02.002	Upper casing
02.17.019	Nameplate
04.09.001	Casing wear ring
05.02.001	Flushing water piping
05.02.006	Bearing assembly (NDE)
02.01.002	Bolt
05.02.003	Packing seal assembly
04.02.001	Lower casing
05.02.004	Mechanical seal assembly
05.02.007	Drainage pipe
02.07.002	Wear ring dowel pin



▲ Type B

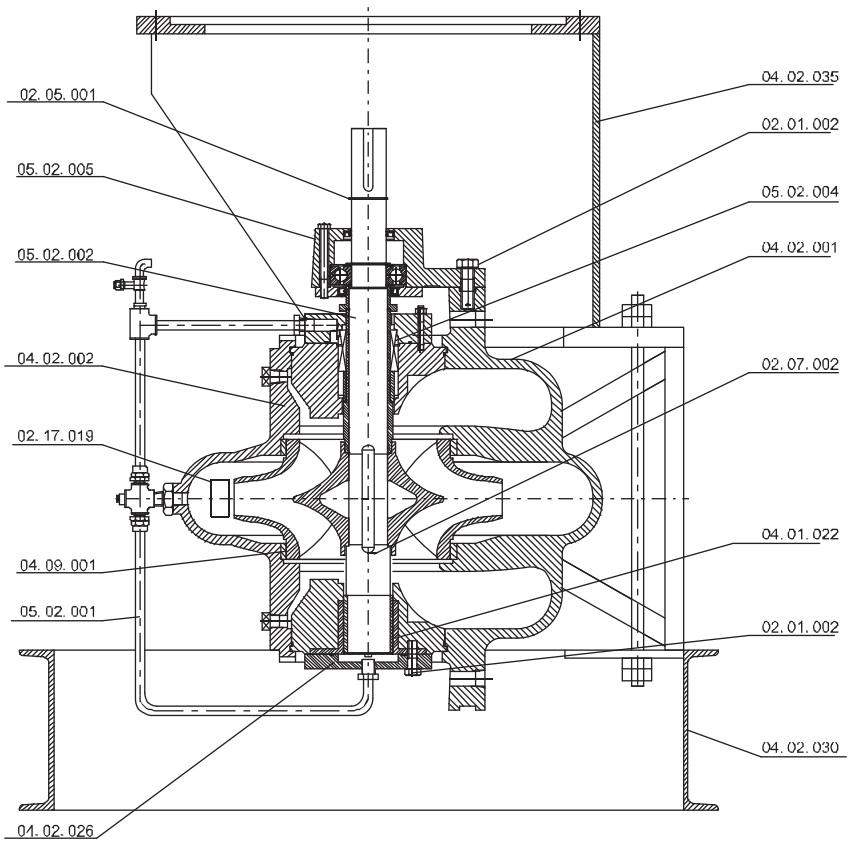
Part No.	Part Name
02.05.001	Shaft Circlip
05.02.005	Bearing assembly (DE)
05.02.002	Rotor assembly
04.02.002	Upper casing
02.17.019	Nameplate
04.09.001	Casing wear ring
05.02.001	Flushing water piping
05.02.006	Bearing assembly (NDE)
02.01.002	Bolt
05.02.004	Mechanical seal assembly
04.02.001	Lower casing
05.02.003	Packing seal assembly
02.16.002	Plug
02.07.002	Wear ring dowel pin



Part No.	Part Name
02.05.001	Shaft Circlip
05.02.005	Bearing assembly (DE)
05.02.002	Rotor assembly
04.02.002	Upper casing
02.17.019	Nameplate
04.09.001	Casing wear ring
05.02.001	Flushing water piping
05.02.006	Bearing assembly (NDE)
02.01.002	Bolt
05.02.003	Packing seal assembly
04.02.001	Lower casing
05.02.004	Mechanical seal assembly
02.16.002	Plug
02.07.002	Wear ring dowel pin

▲ Type C

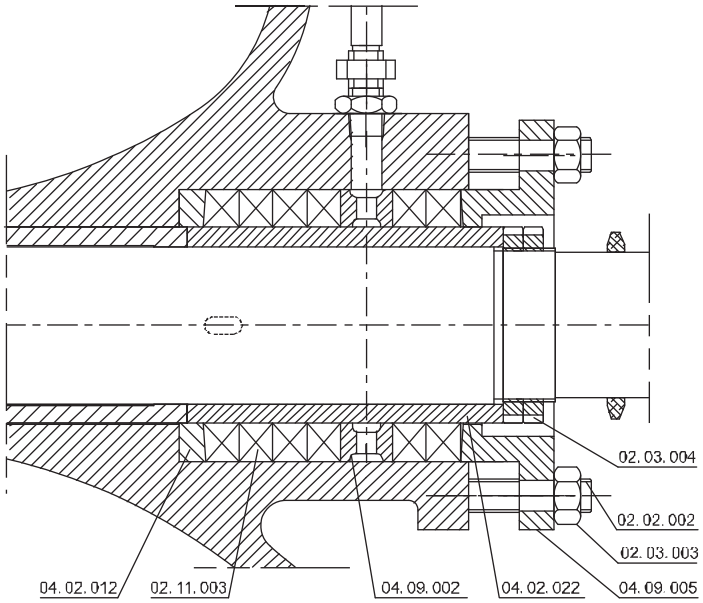
Vertical Installation



Part No.	Part Name
02.05.001	Shaft Circlip
05.02.005	Bearing assembly (DE)
05.02.002	Rotor assembly
04.02.002	Upper casing
02.17.019	Nameplate
04.09.001	Casing wear ring
05.02.001	Flushing water piping
04.02.026	Cap
04.02.035	Motor riser
02.01.002	Bolt
05.02.004	Mechanical seal assembly
04.02.001	Lower casing
02.07.002	Wear ring dowel pin
04.01.022	Bearing bush
04.02.030	Foot

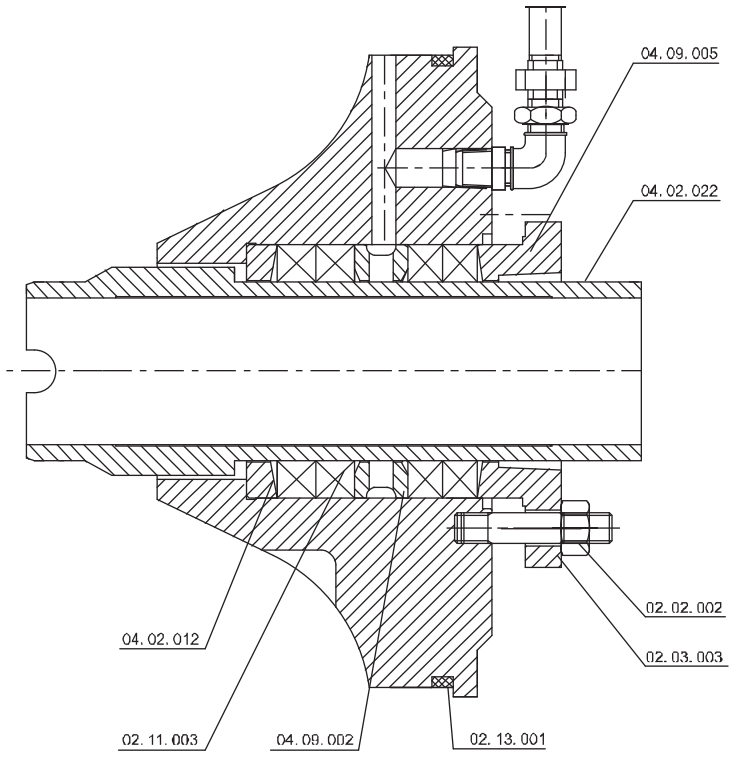
Sectional View----Shaft Seal

1.Soft Packed Stuffing Box



Part No.	Part Name
04.02.012	Set neck ring
02.11.003	Gland packing
04.09.002	Lantern ring
04.02.022	Shaft protecting sleeve
04.09.005	Gland
02.03.003	Nut
02.02.002	Bolt
02.03.004	Round nut

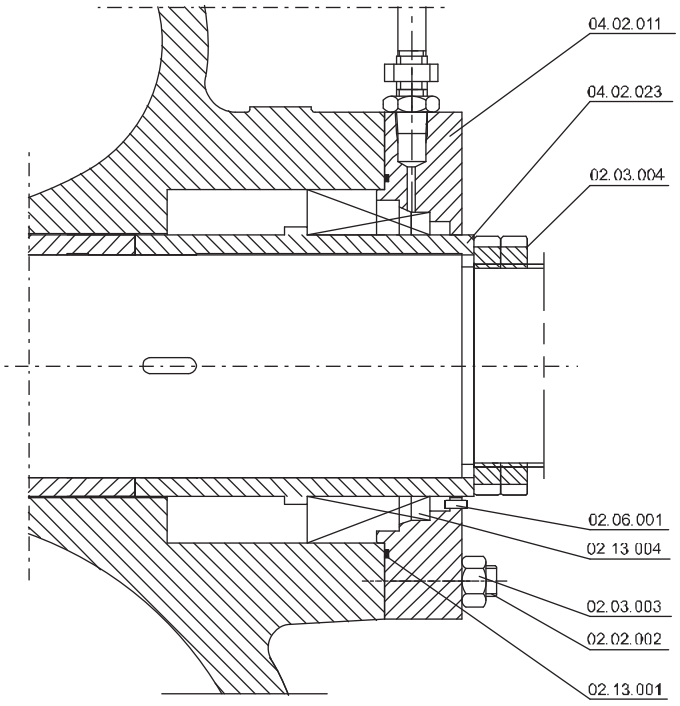
▲ Type A---Apply to horizontal installation type A and B



Part No.	Part Name
04.09.005	Gland
04.02.022	Shaft protecting sleeve
04.02.012	Set neck ring
02.11.003	Gland packing
04.09.002	Lantern ring
02.13.001	O-Ring
02.02.002	Bolt
02.03.003	Nut

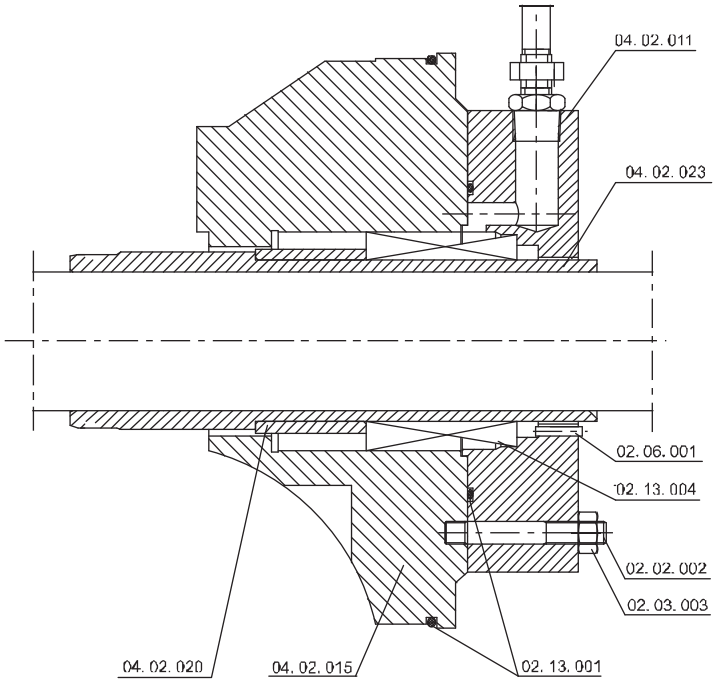
▲ Type B---Apply to horizontal installation type C

2.Mechanical Seal



▲ Type A---Apply to horizontal installation type A and B

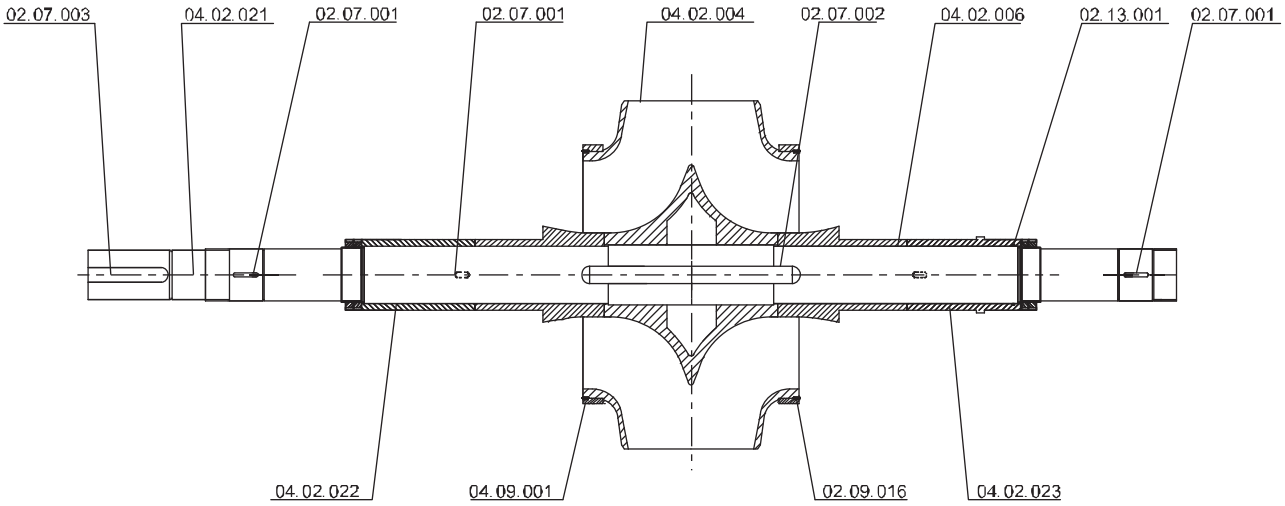
Part No.	Part Name
04.02.011	Seal cover
04.02.023	Shaft protecting sleeve
02.03.004	Round nut
02.06.001	Round pin
02.13.004	Shaft seal unit
02.03.003	Nut
02.02.002	Bolt
02.13.001	O-Ring



▲ Type B---Apply to horizontal installation type C

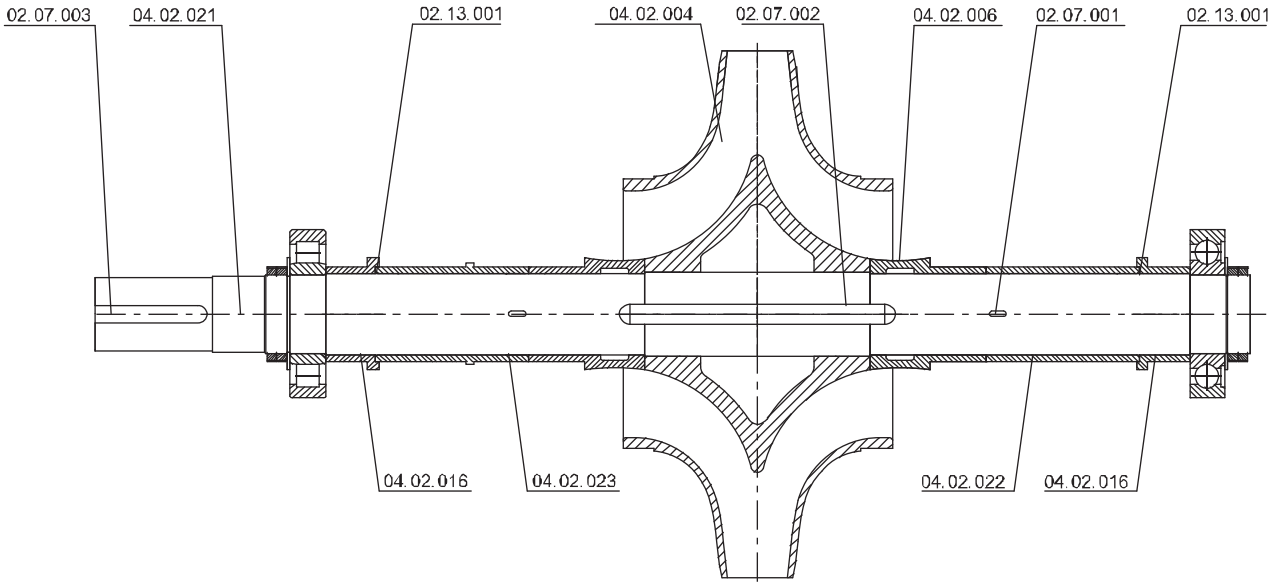
Part No.	Part Name
04.02.011	Seal cover
04.02.023	Shaft protecting sleeve
02.06.001	Round pin
02.13.004	Shaft seal unit
02.02.002	Bolt
02.03.003	Nut
02.13.001	O-Ring
04.02.015	Shaft seal housing
04.02.020	Spacer sleeve

Sectional View----Rotor



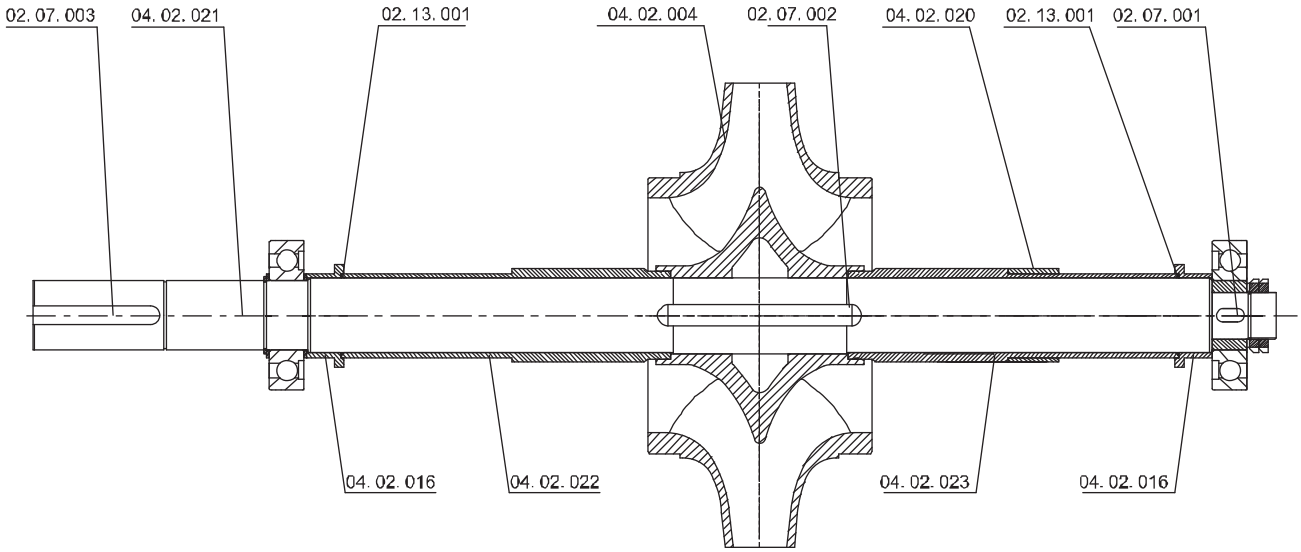
▲ Type A---Apply to horizontal installation type A

Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.07.003	Key C	04.02.021	Shaft	02.07.001	Key A
04.02.004	Impeller	02.07.002	Key B	04.02.006	Shaft protecting sleeve
02.13.001	O-Ring	04.02.022	Shaft protecting sleeve(GP)	04.09.001	Impeller wear ring
02.09.016	Impeller locating screw	04.02.023	Shaft protecting sleeve(MS)		



▲ Type B---Apply to horizontal installation type B

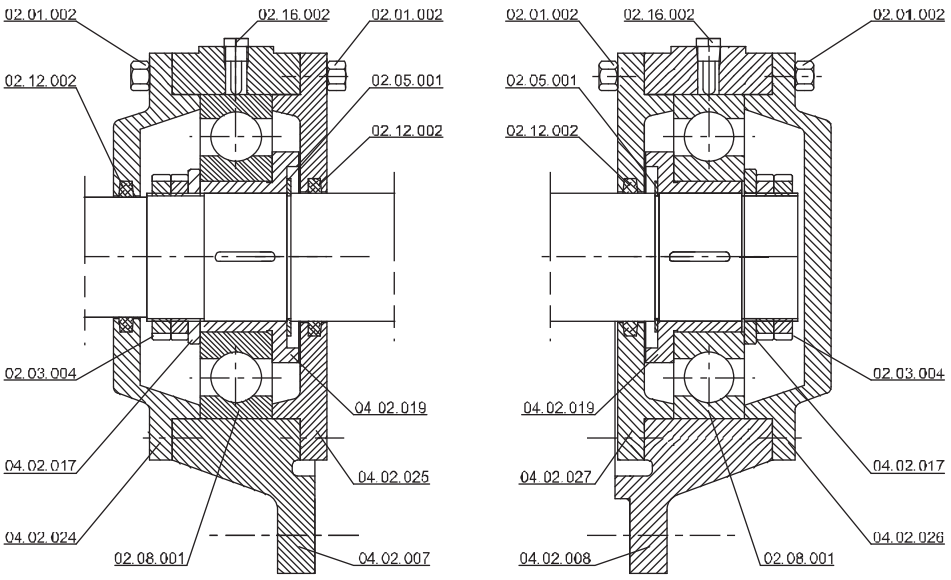
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.07.003	Key C	04.02.021	Shaft	02.13.001	O-Ring
04.02.004	Impeller	02.07.002	Key B	04.02.006	Shaft protecting sleeve
02.07.001	Key A	04.02.016	Water baffle sleeve	04.02.023	Shaft protecting sleeve(MS)
04.02.022	Shaft protecting sleeve(GP)				



▲ Type C---Apply to horizontal installation type C

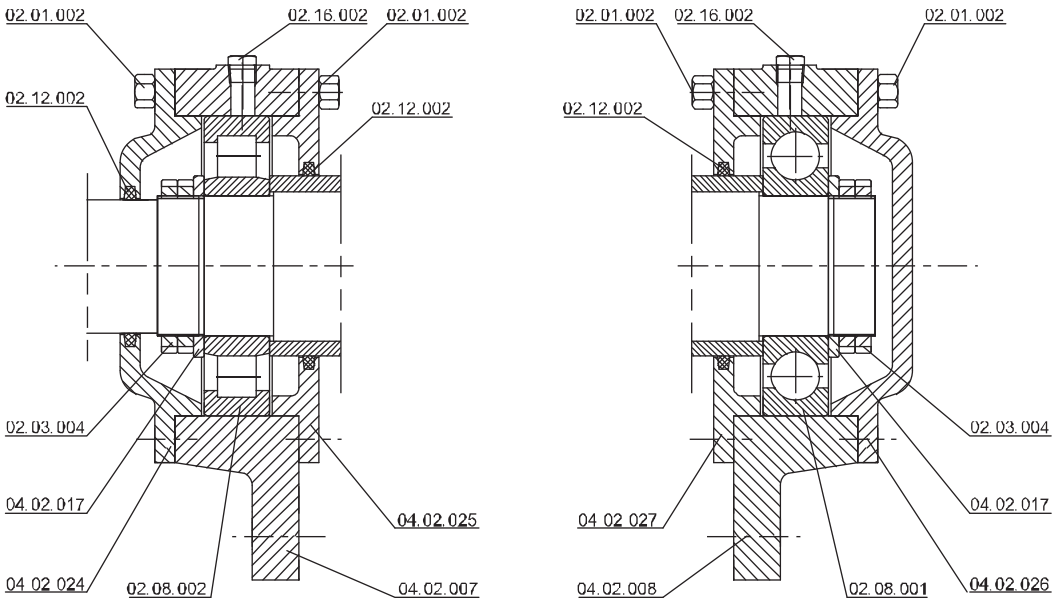
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.07.003	Key C	04.02.021	Shaft	02.13.001	O-Ring
04.02.004	Impeller	02.07.002	Key B	04.02.020	Spacer sleeve(MS)
02.07.001	Key A	04.02.016	Water baffle sleeve	04.02.022	Shaft protecting sleeve(GP)
04.02.023	Shaft protecting sleeve(MS)				

Sectional View----Bearing



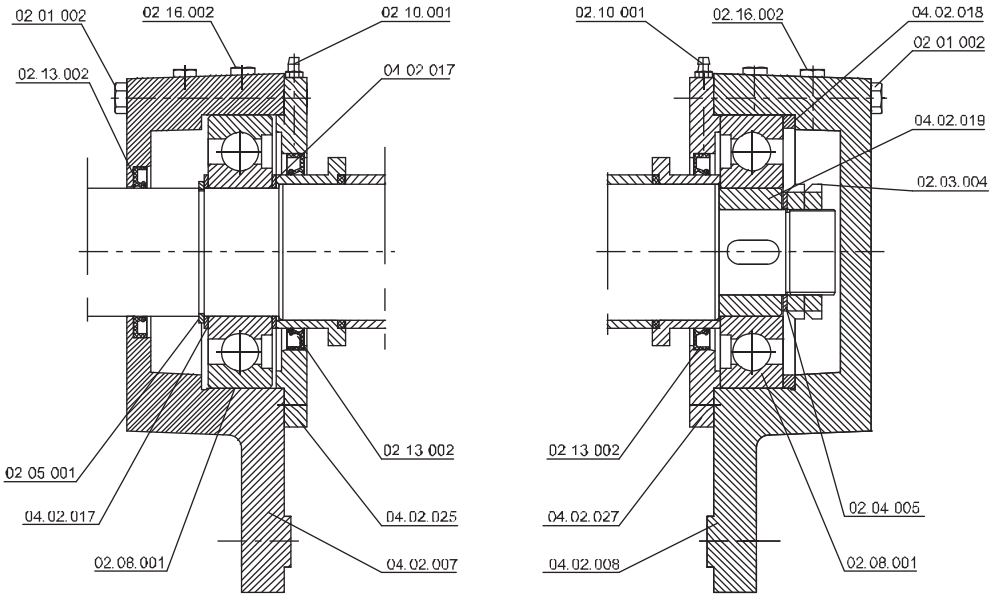
▲ Type A---Apply to horizontal installation type A

Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.01.002	Hex bolts	02.12.002	Felt ring	02.03.004	Round nut	04.02.017	Bearing circlip
04.02.024	Bearing outer cover(DE)	02.08.001	Deep groove ball bearing	02.16.002	Plug	02.05.001	Shaft Circlip
04.02.019	Bearing sleeve	04.02.025	Bearing inner cover (DE)	04.02.007	Bearing housing (DE)	04.02.027	Bearing inner cover (NDE)
04.02.008	Bearing housing (NDE)	04.02.026	Bearing outer cover (NDE)				



▲ Type B---Apply to horizontal installation type B

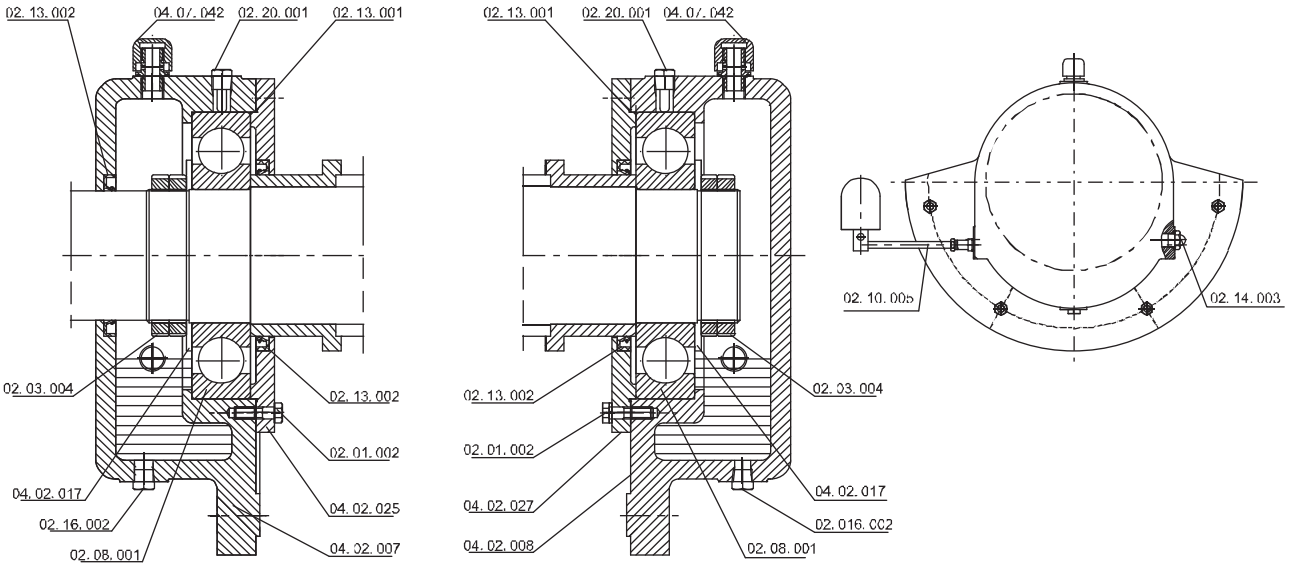
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.01.002	Hex bolts	02.12.002	Felt ring	02.03.001	Round nut	04.02.017	Bearing circlip
04.02.024	Bearing outer cover(DE)	02.08.002	Roller bearing	02.16.002	Plug	04.02.025	Bearing inner cover (DE)
04.02.007	Bearing housing (DE)	04.02.027	Bearing inner cover (NDE)	04.02.008	Bearing housing (NDE)	02.08.001	Deep groove ball bearing
04.02.026	Bearing outer cover (NDE)						



▲ Type C---Apply to horizontal installation type C

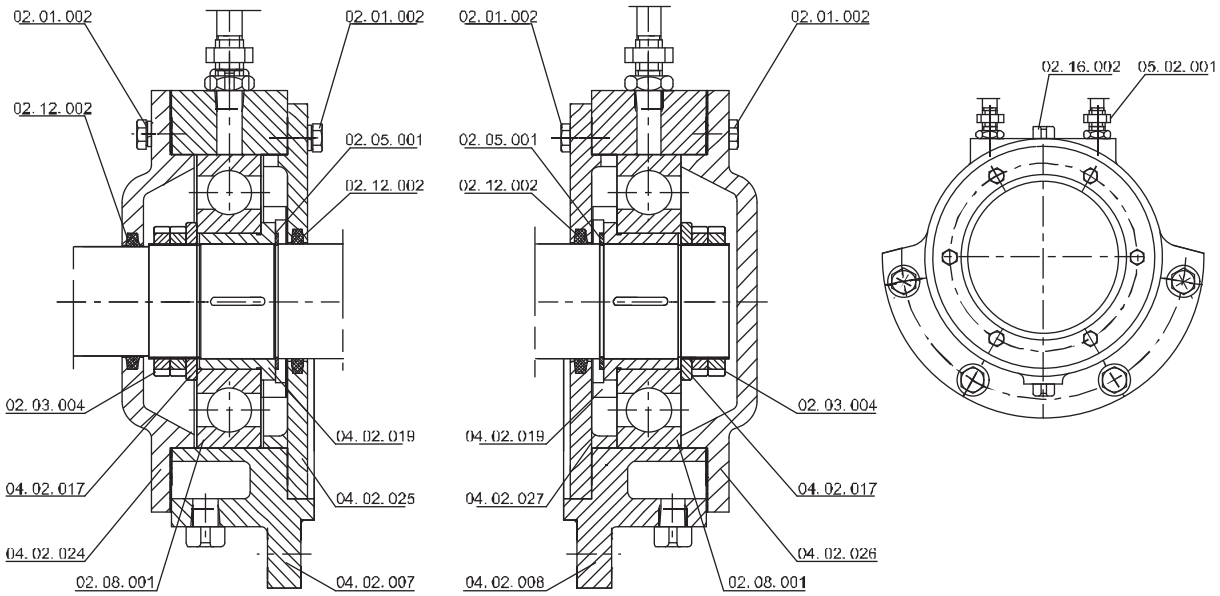
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.01.002	Hex bolts	02.13.002	Lip-type seal ring	02.05.001	Shaft Circlip	04.02.017	Bearing circlip
02.08.001	Deep groove ball bearing	02.16.002	Plug	02.10.001	Straight-through type oil cup	04.02.025	Bearing inner cover (DE)
04.02.007	Bearing housing (DE)	04.02.027	Bearing inner cover (NDE)	04.02.008	Bearing housing (NDE)	04.02.018	Bearing locating ring
04.02.019	Bearing sleeve	02.03.004	Round nut	02.04.005	Spring		

Bearing with oil lubrication



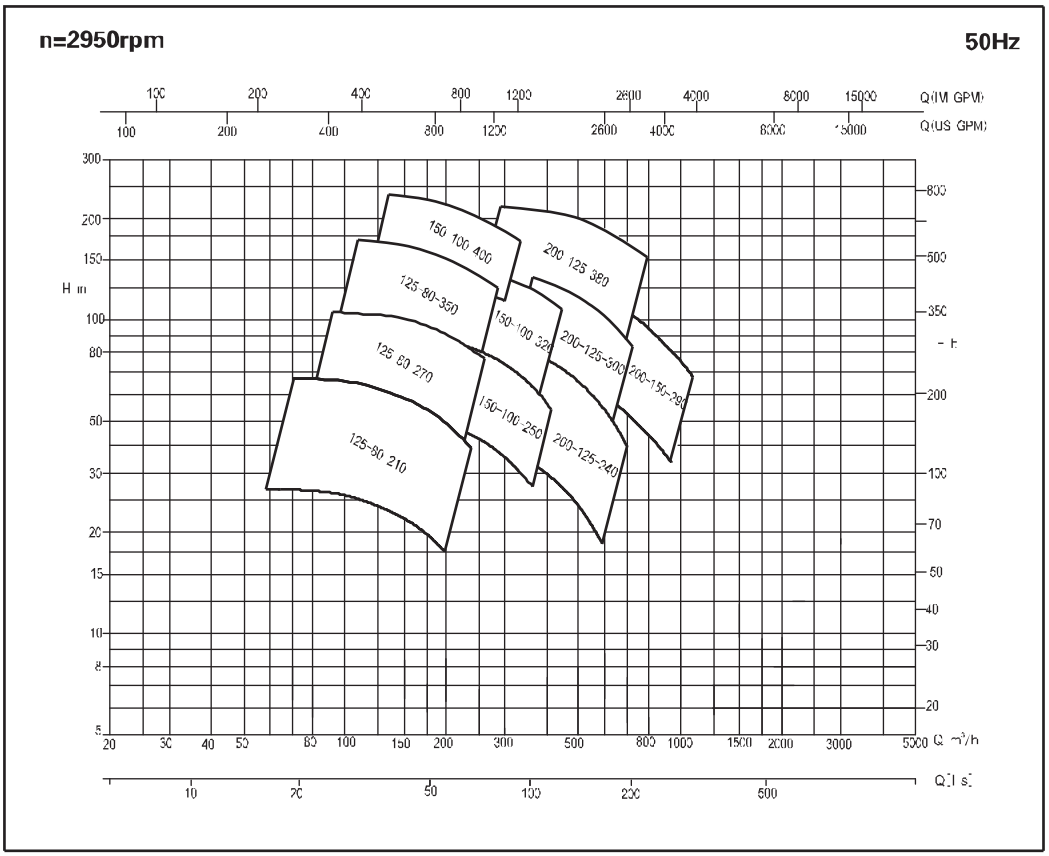
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.13.002	Lip-type seal ring	02.03.004	Round nut	04.02.017	Bearing circlip	02.16.002	Plug
02.08.001	Deep groove ball bearing	04.07.042	Breather cap	02.20.001	Temperature measuring device	02.13.001	O-Ring
02.01.002	Hex bolts	04.02.025	Bearing inner cover (DE)	04.02.007	Bearing housing (DE)	04.02.027	Bearing inner cover (NDE)
04.02.008	Bearing housing (NDE)	02.14.003	Oil sight gauge	02.10.005	Constant lever oiler		

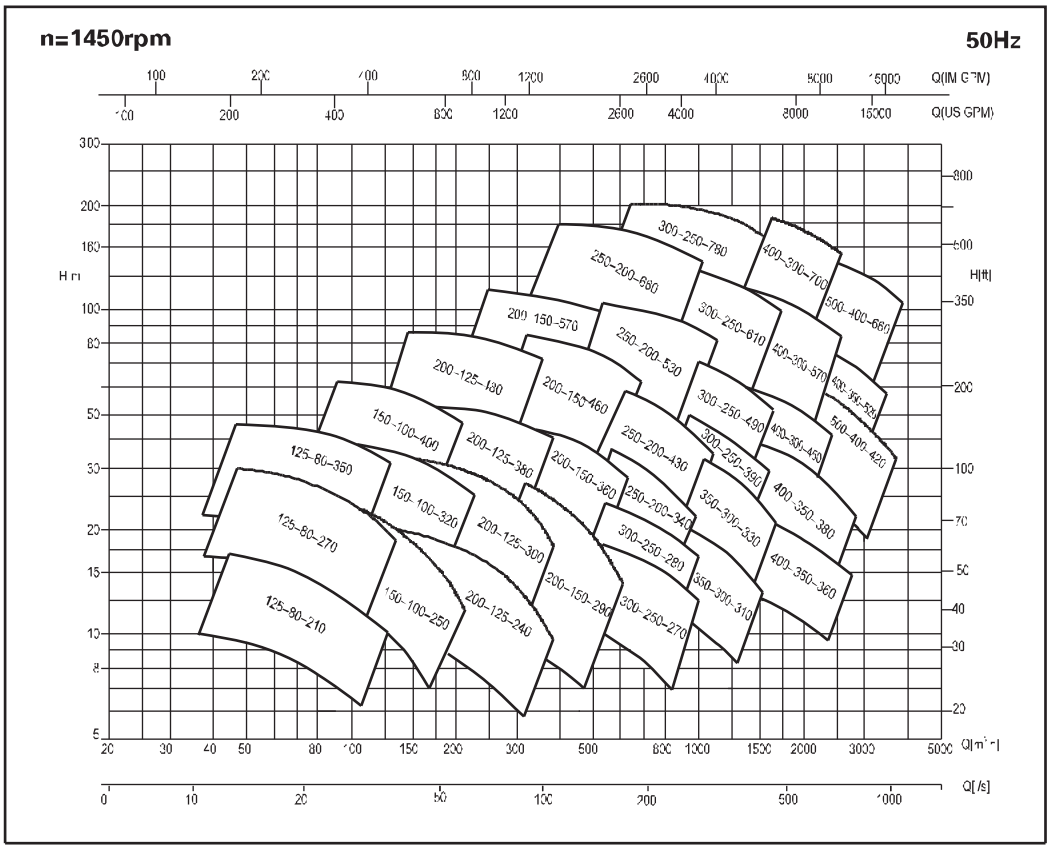
Bearing with water cooling(Pumping higher temp. liquid)

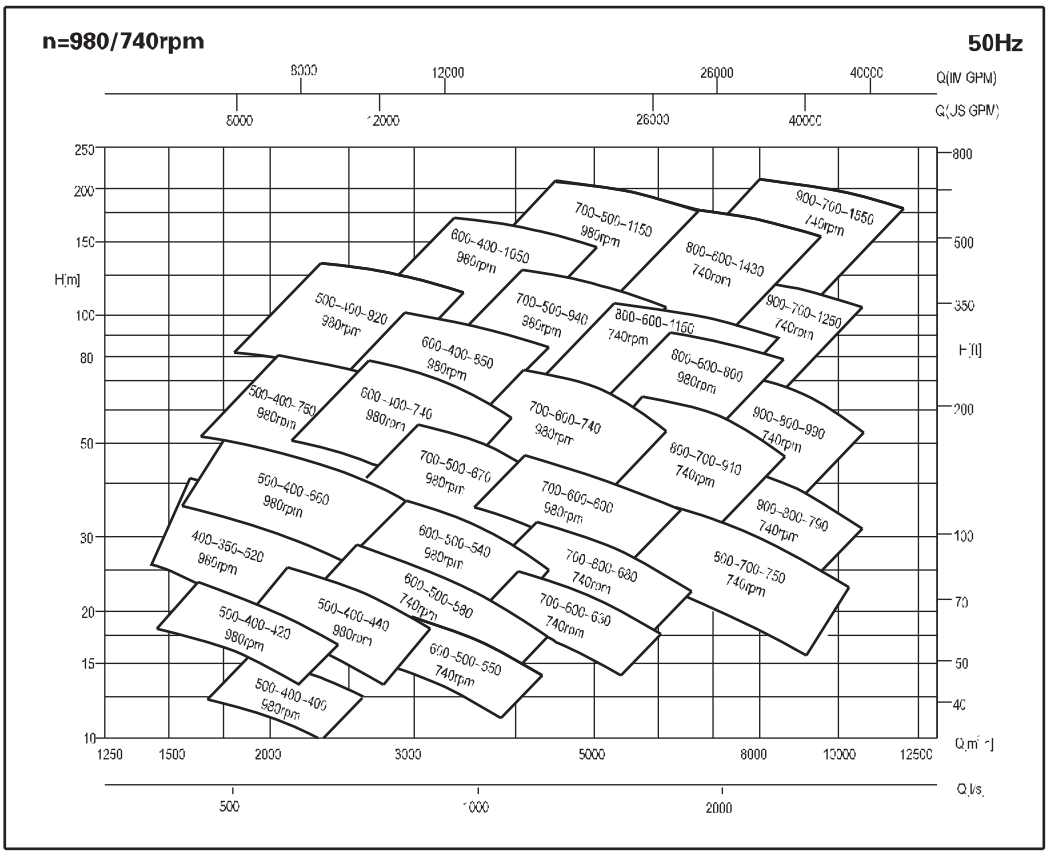


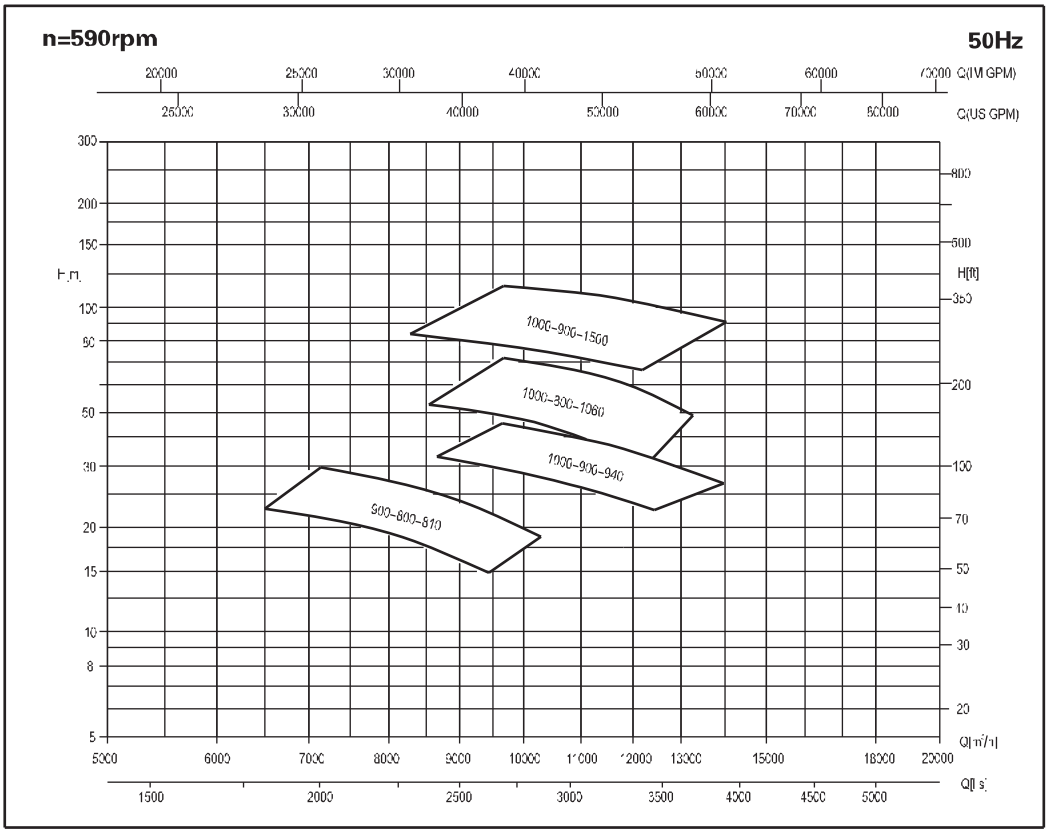
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.01.002	Hex bolts	02.12.002	Felt ring	02.03.004	Round nut	04.02.017	Bearing circlip
04.02.024	Bearing outer cover(DF)	02.08.001	Deep groove ball bearing	02.05.001	Shaft Circlip	04.02.019	Bearing sleeve
04.02.025	Bearing inner cover (DE)	04.02.007	Bearing housing (DE)	04.02.027	Bearing inner cover (NDE)	04.02.008	Bearing housing (NDE)
04.02.026	Bearing outer cover (NDE)	02.16.002	Plug	05.02.001	Cooling Piping		

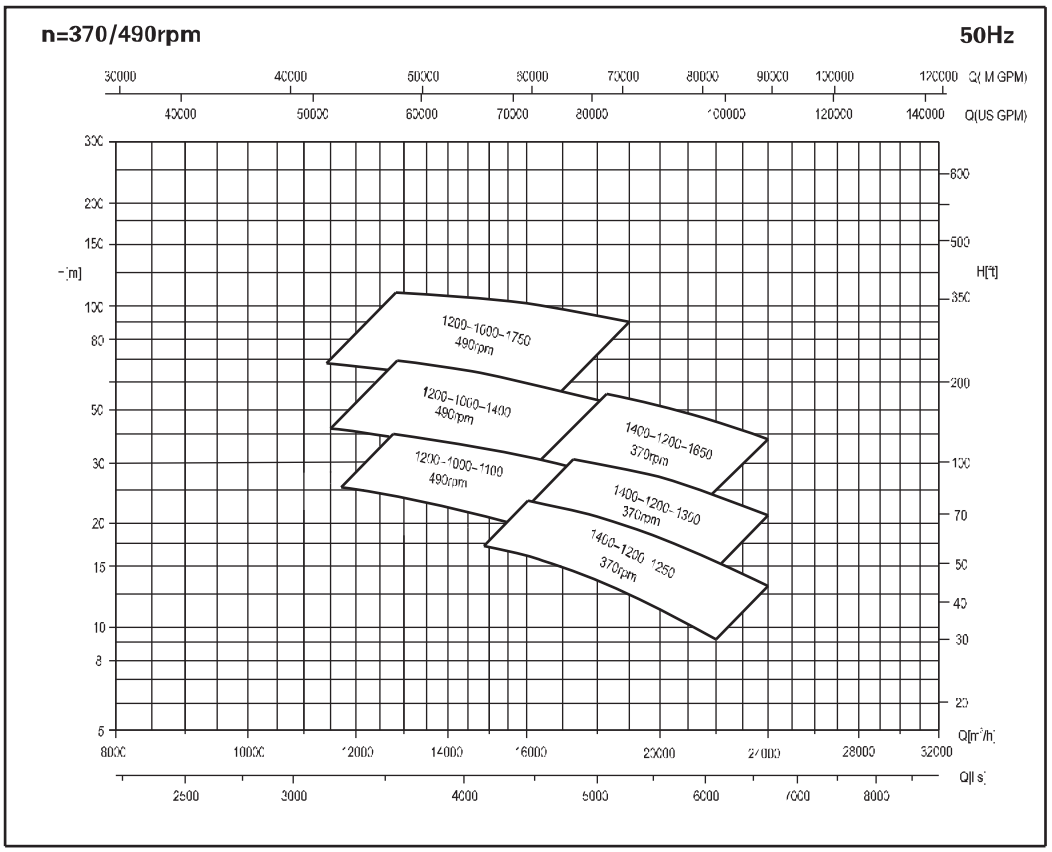
Performance Range





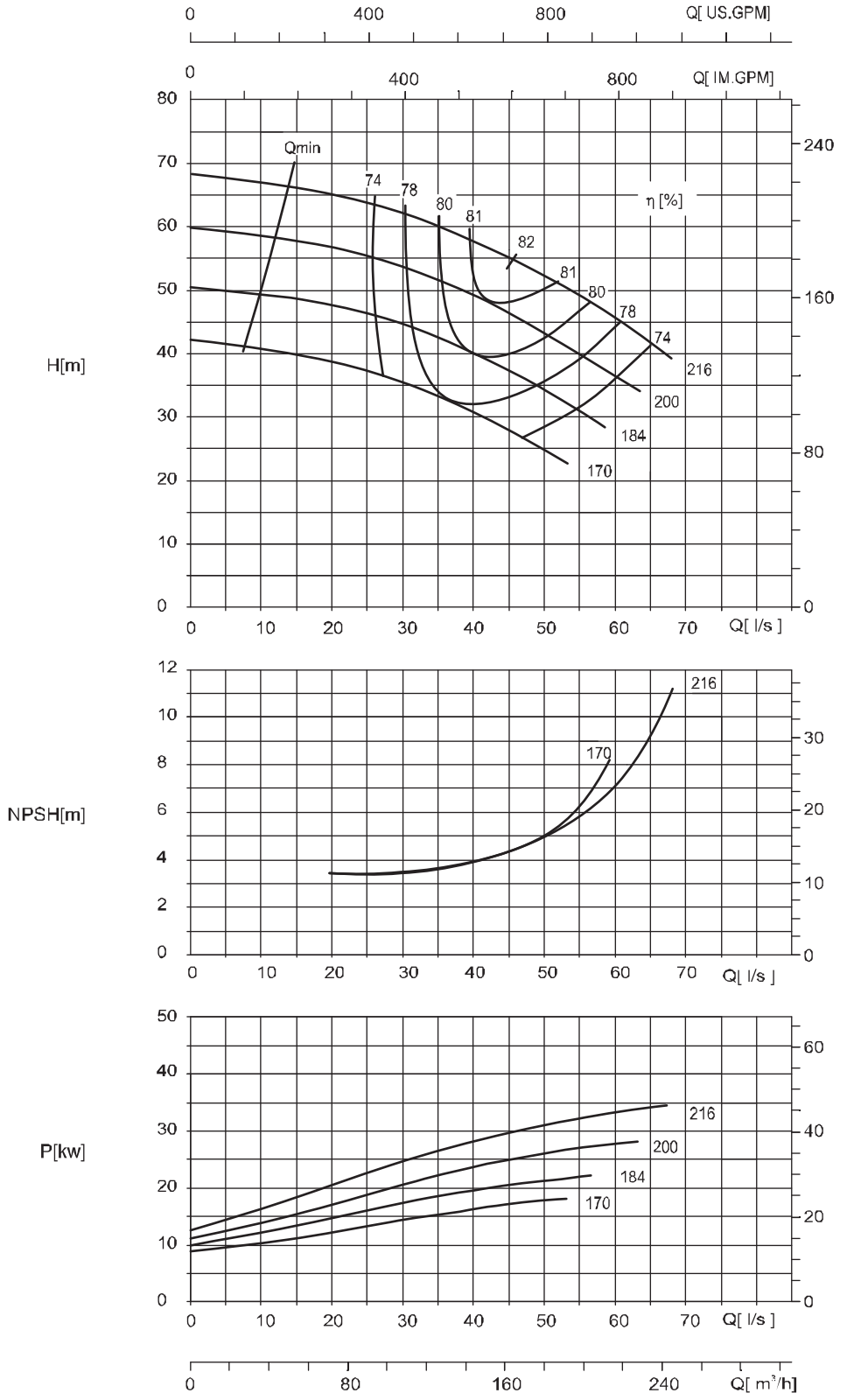

n=980/740rpm
50Hz
Q(IM GPM)
Q(US GPM)
H[m]
H[ft]
Q[m³/h]
Q[l/s]
500-400-820 980rpm
600-400-1050 980rpm
700-500-1150 980rpm
800-600-1430 740rpm
900-700-1550 740rpm
500-400-750 980rpm
600-400-940 980rpm
700-500-940 980rpm
800-600-1150 740rpm
900-700-1250 740rpm
500-400-670 980rpm
600-400-740 980rpm
700-500-870 980rpm
700-600-740 980rpm
800-600-860 980rpm
900-700-910 740rpm
900-800-930 740rpm
500-400-560 980rpm
600-500-540 980rpm
700-600-680 980rpm
760-800-680 740rpm
800-700-750 740rpm
900-800-790 740rpm
400-350-520 960rpm
500-400-440 980rpm
600-500-580 740rpm
700-600-630 740rpm
500-400-420 980rpm
600-500-550 740rpm
500-400-400 980rpm


n=590rpm
50Hz
Q(IM GPM)
Q(US GPM)
H[m]
H[ft]
Q[m³/h]
Q[l/s]
1000-900-1500
1000-900-1060
1000-900-940
900-800-810


n=370/490rpm
50Hz
Q(M GPM)
Q(US GPM)
H[ft]
Q[m³/h]
Q[l/s]
1200~1000~1750
490rpm
1200~1000~1400
490rpm
1200~1000~1100
490rpm
1400~1200~1650
370rpm
1400~1200~1300
370rpm
1400~1200~1250
370rpm

Performance Curve

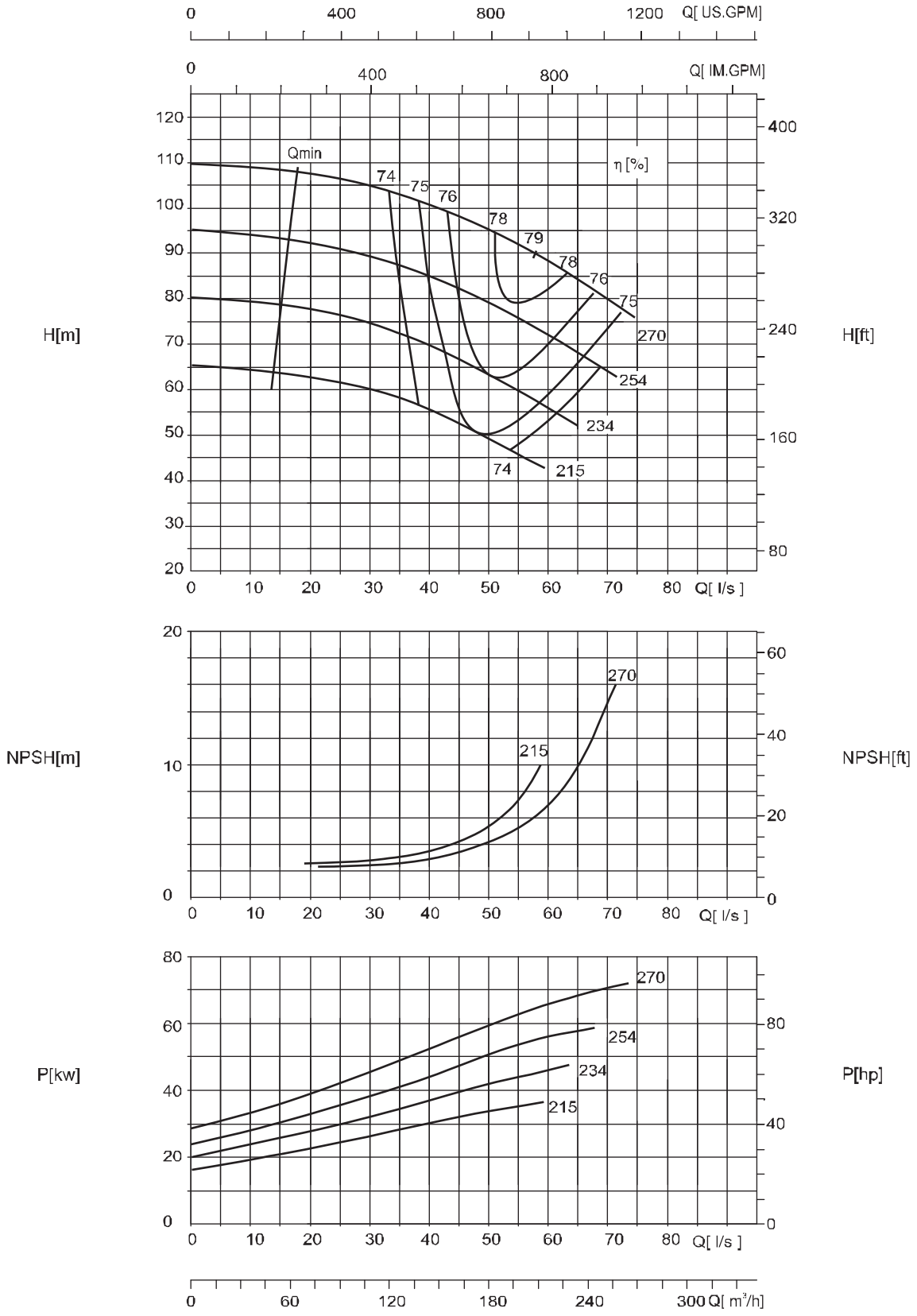
NSC 125–80–210 **2950 r/min**



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 125–80–270

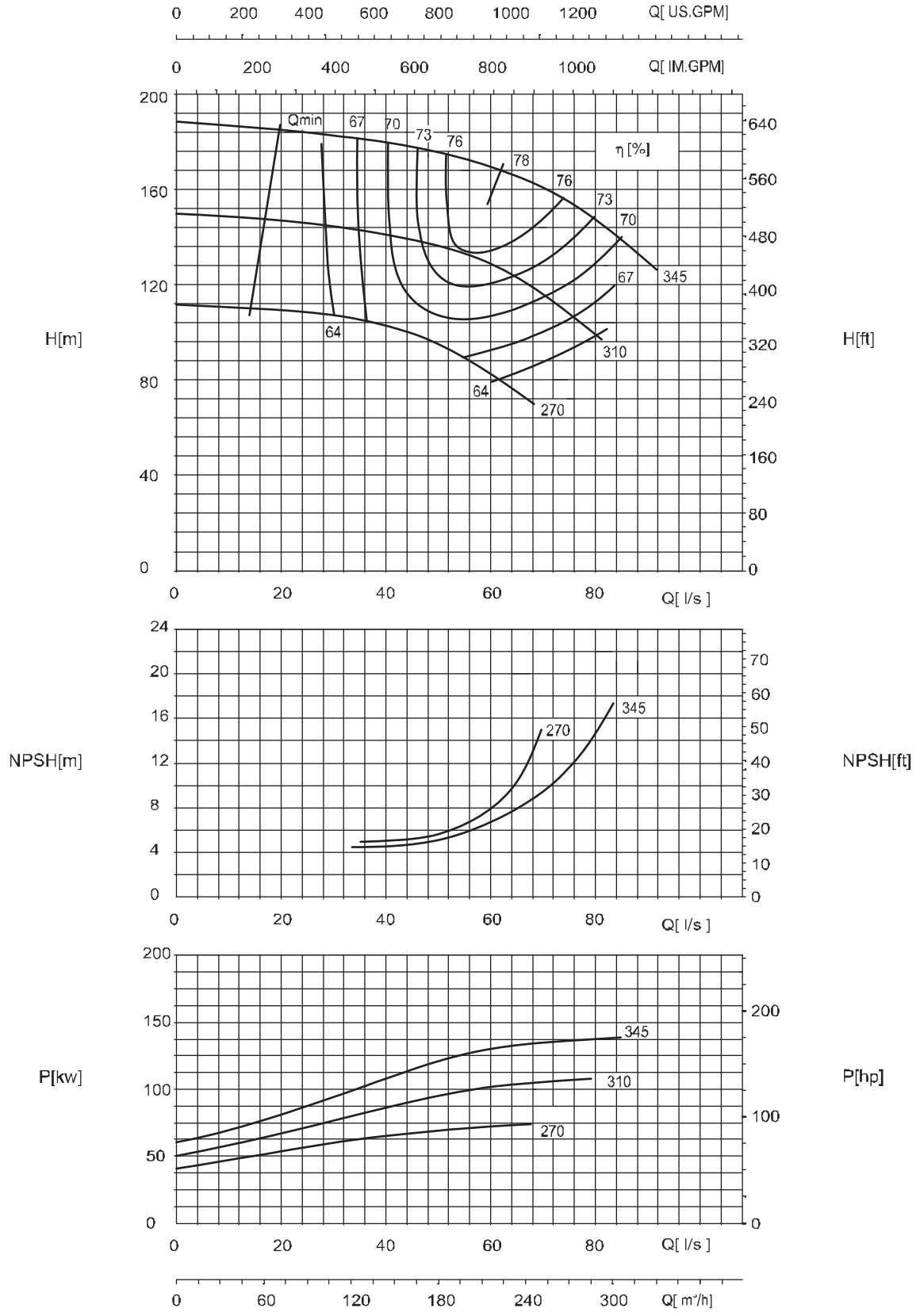
2950 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 125–80–350

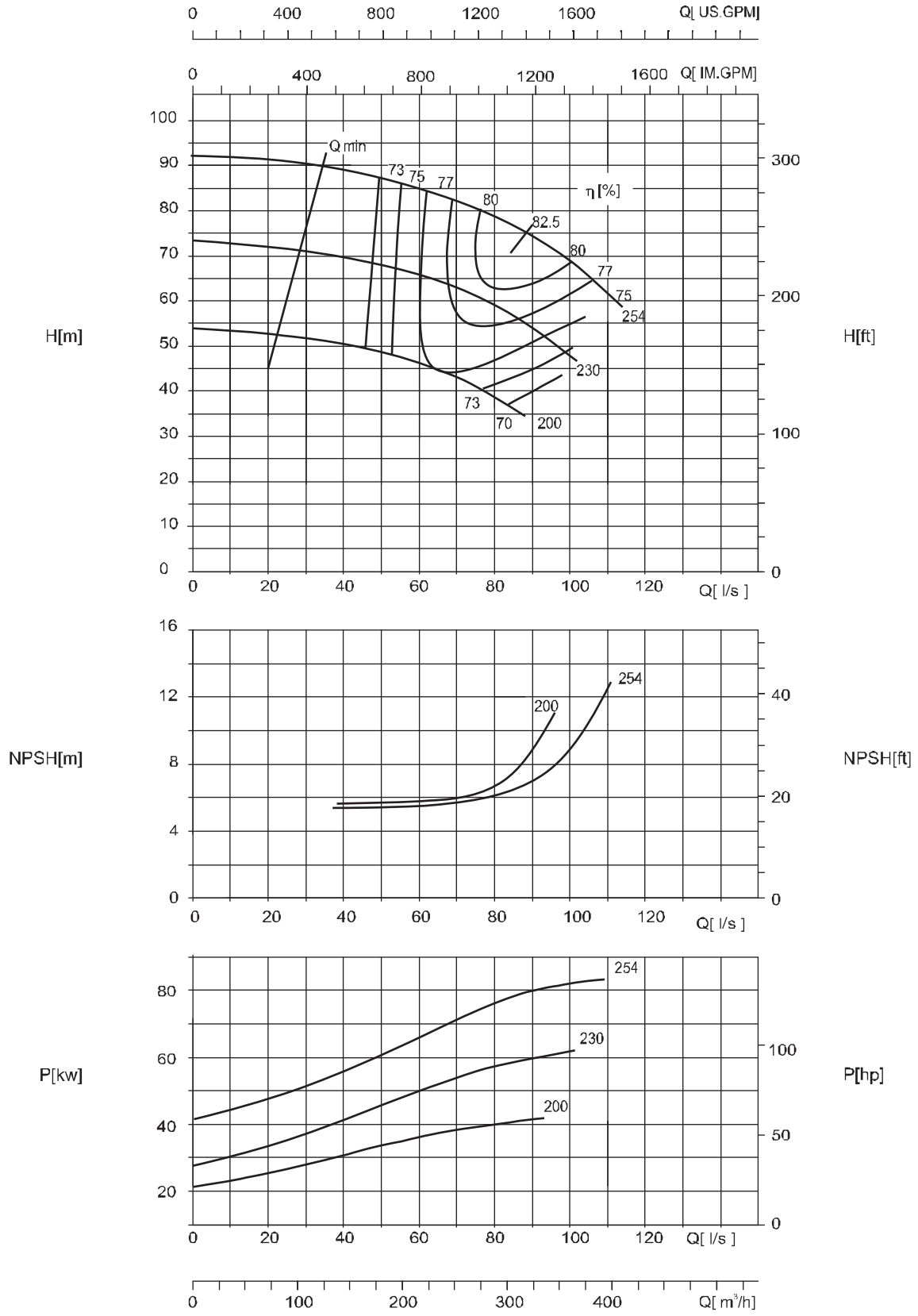
2950 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 150–100–250

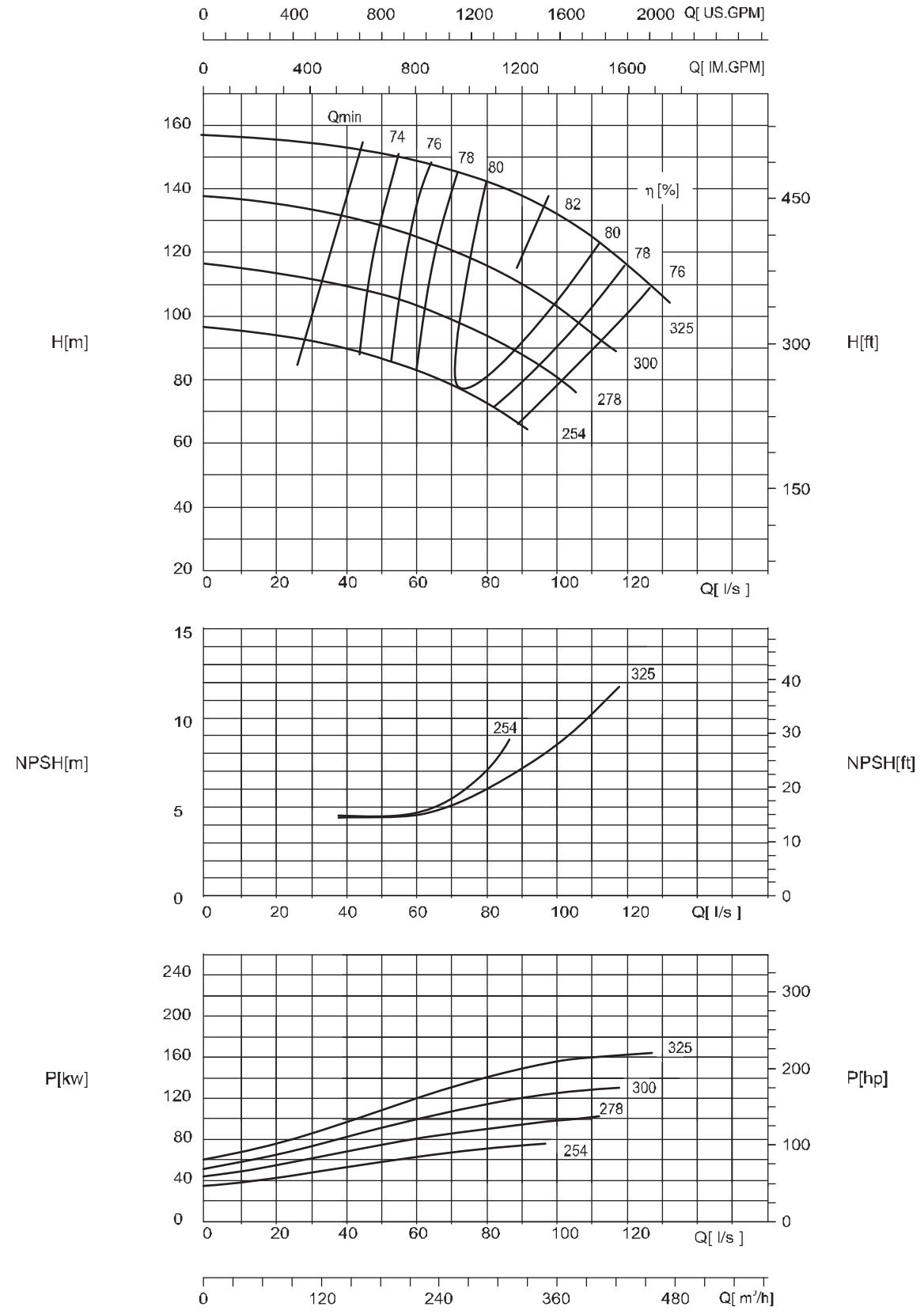
2950 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 150–100–320

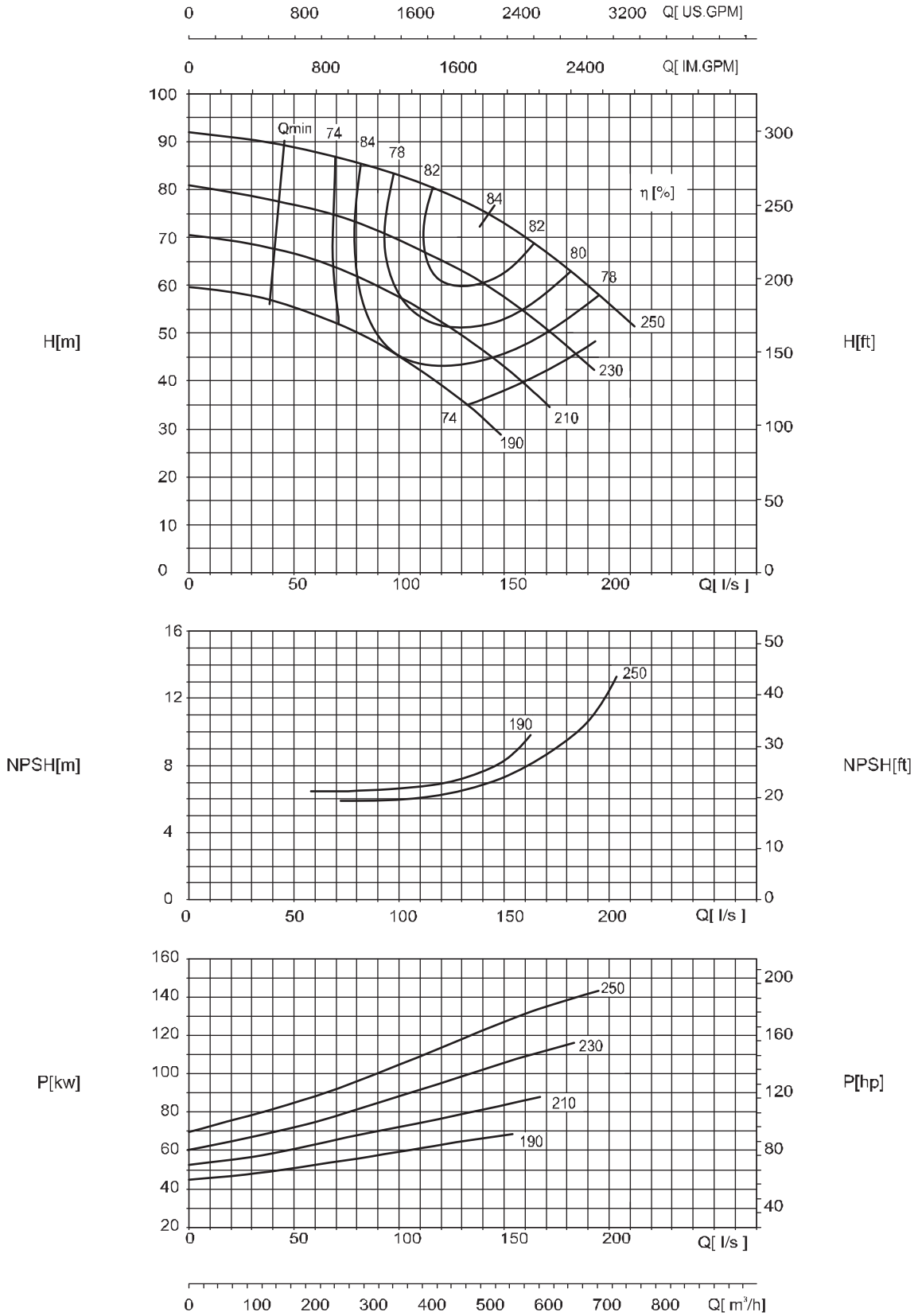
2950 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–125–240

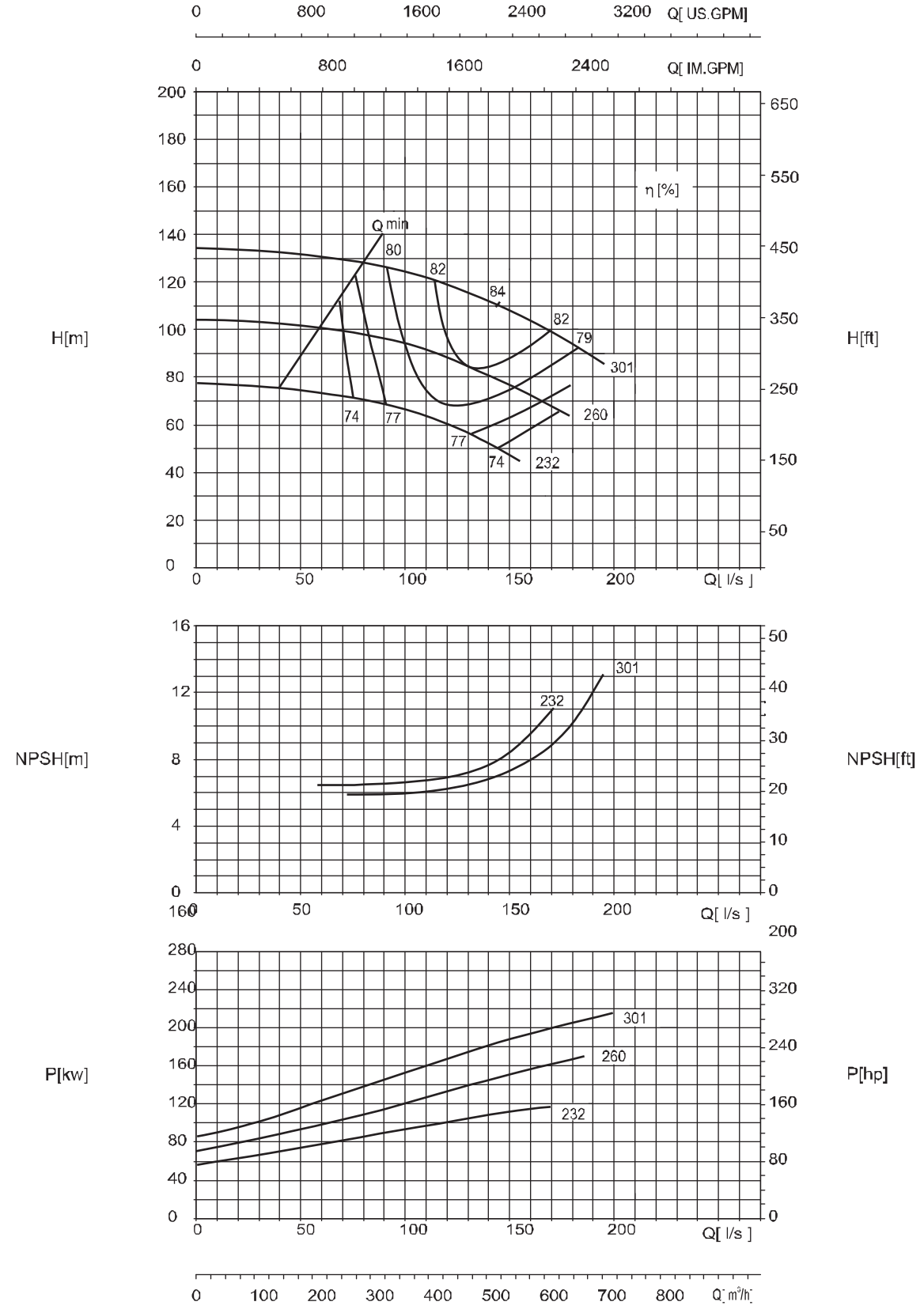
2950 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–125–300

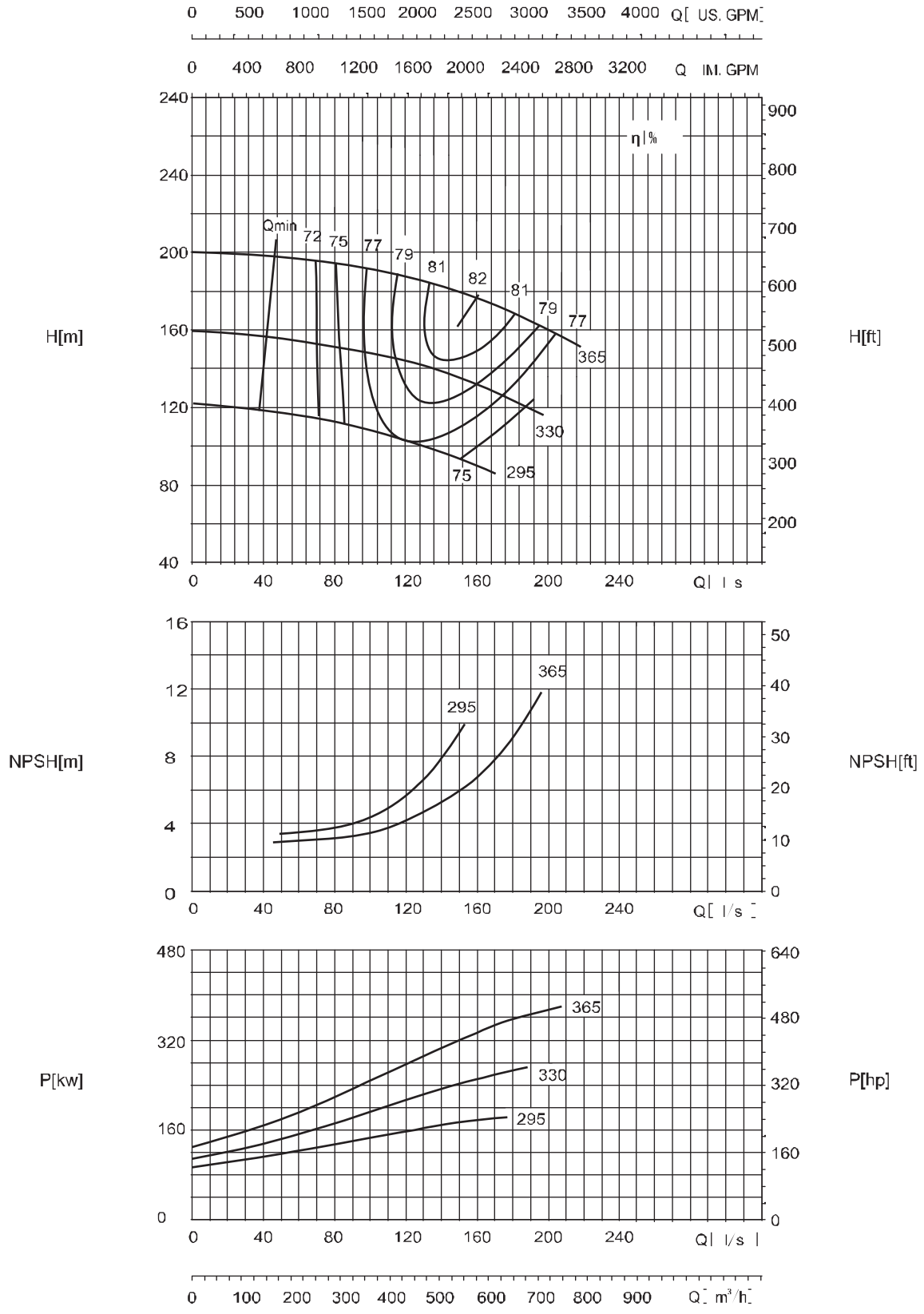
2950 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–125–380

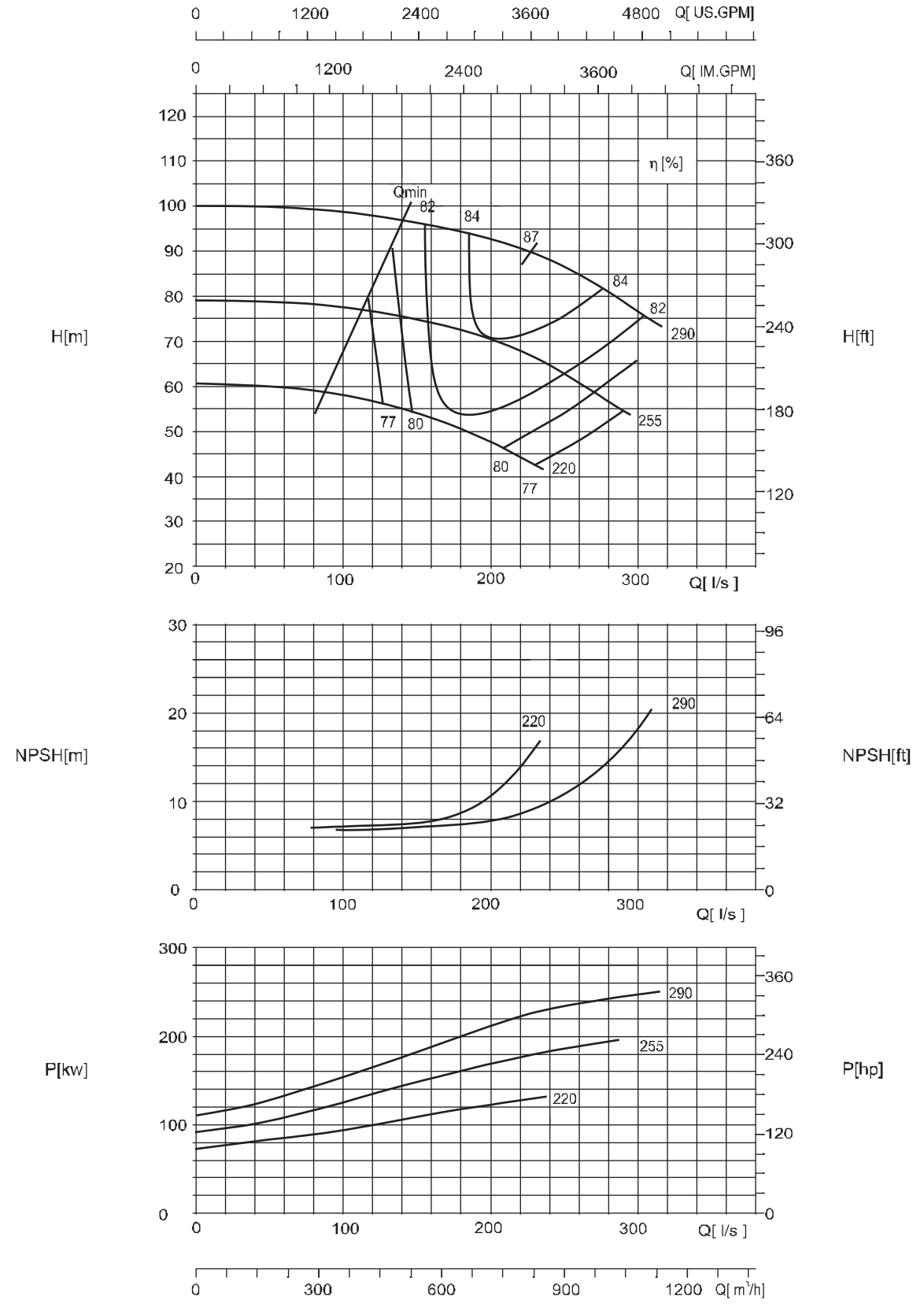
2950 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–150–290

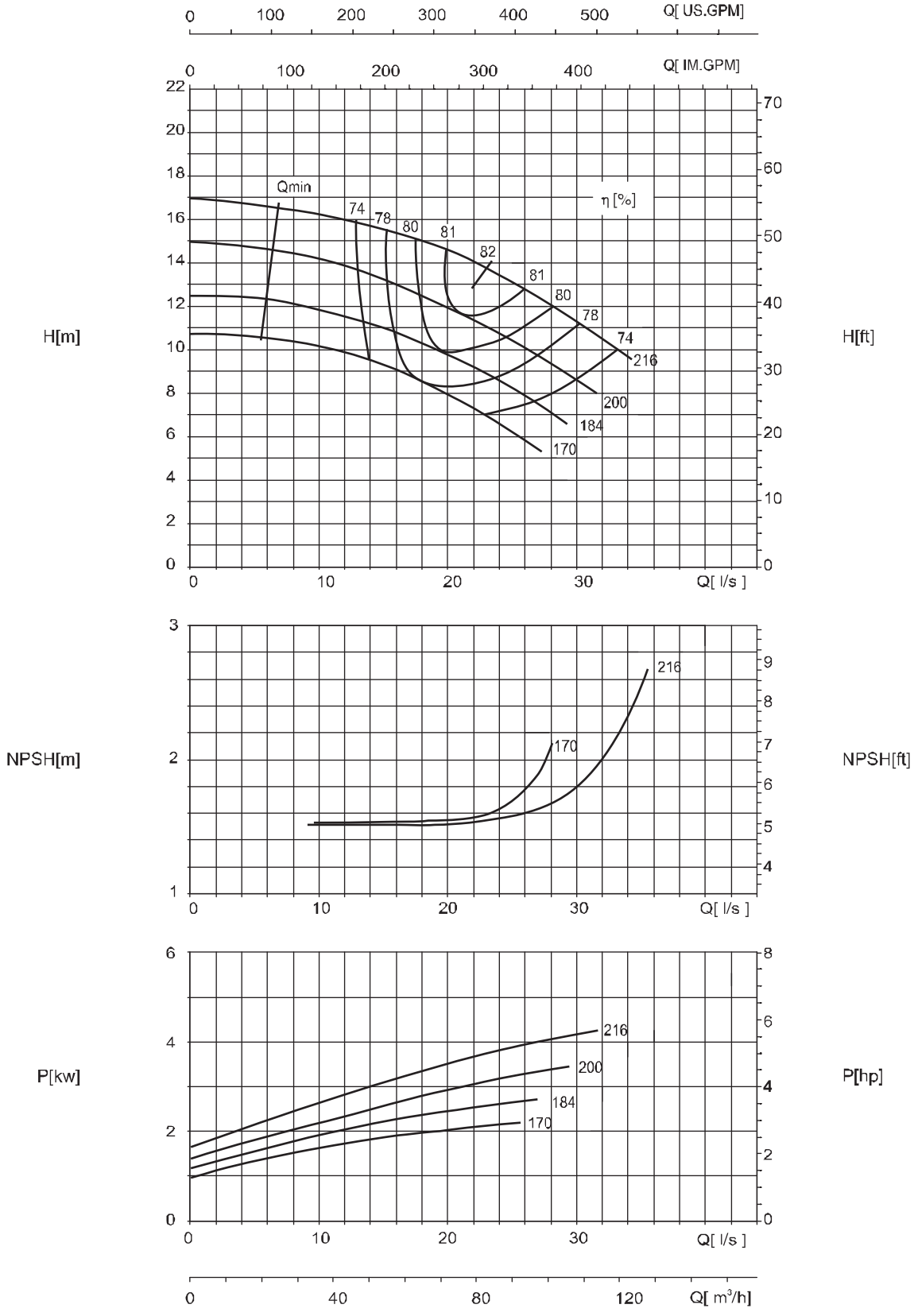
2950 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 125–80–210

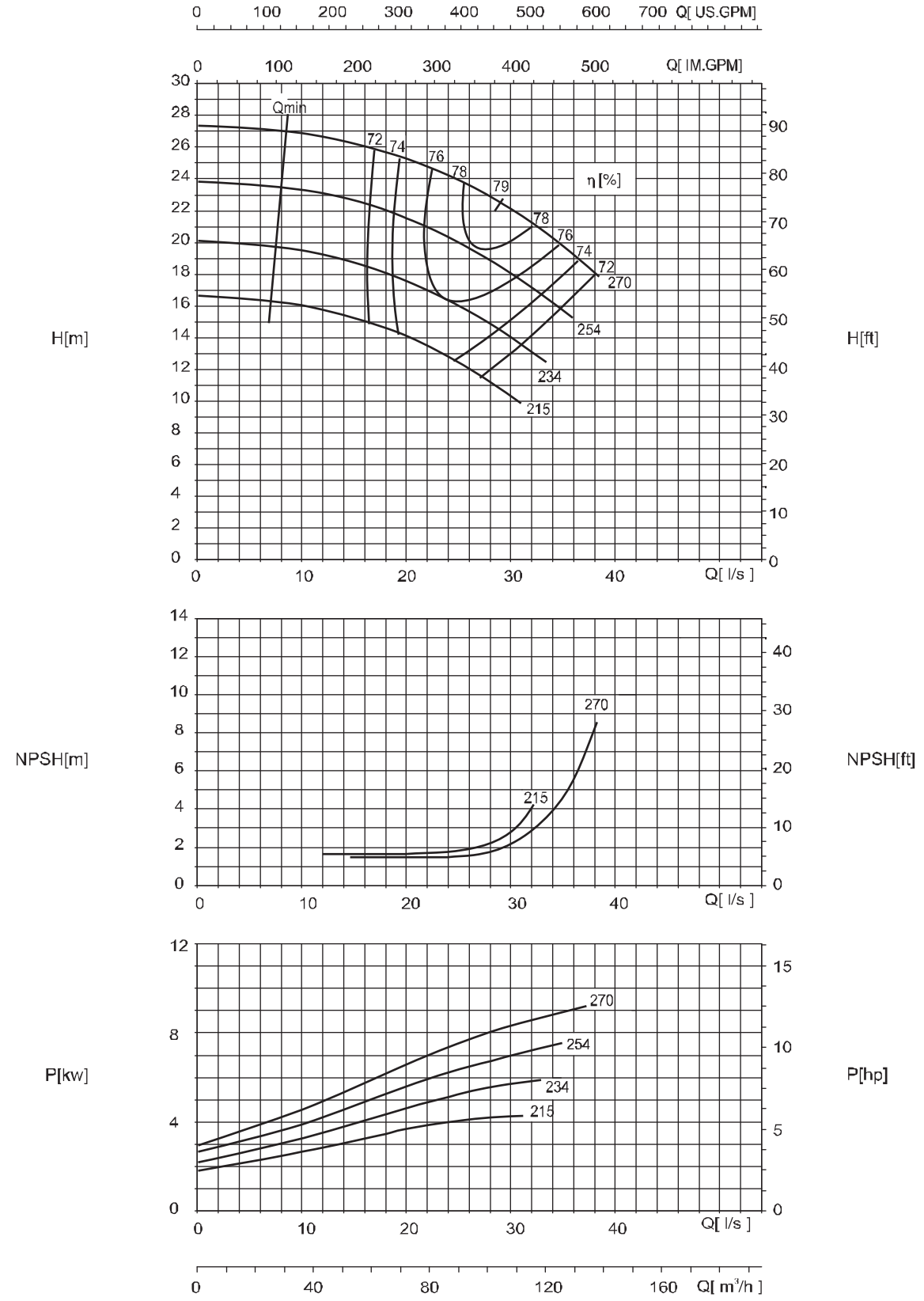
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 125–80–270

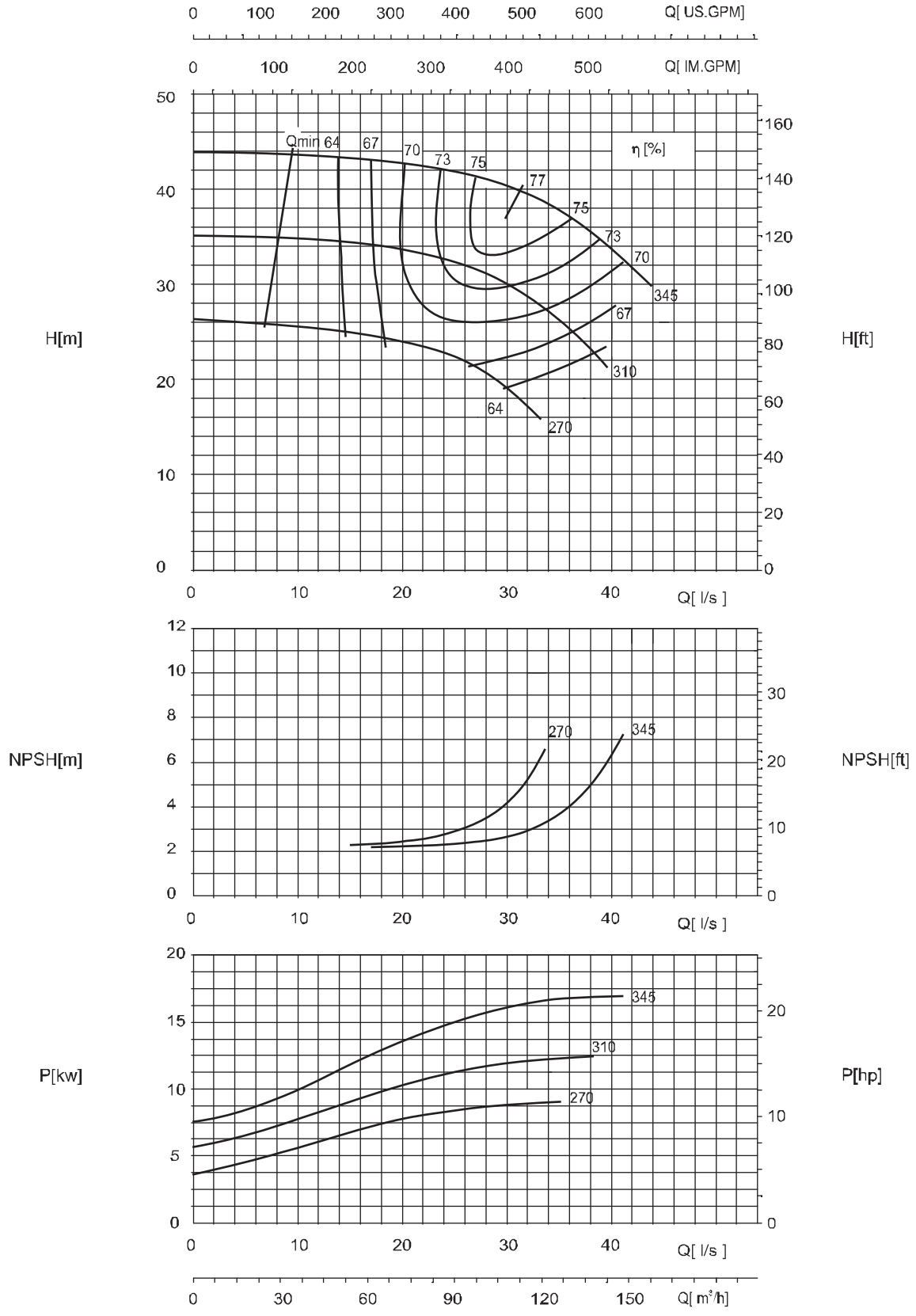
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 125–80–350

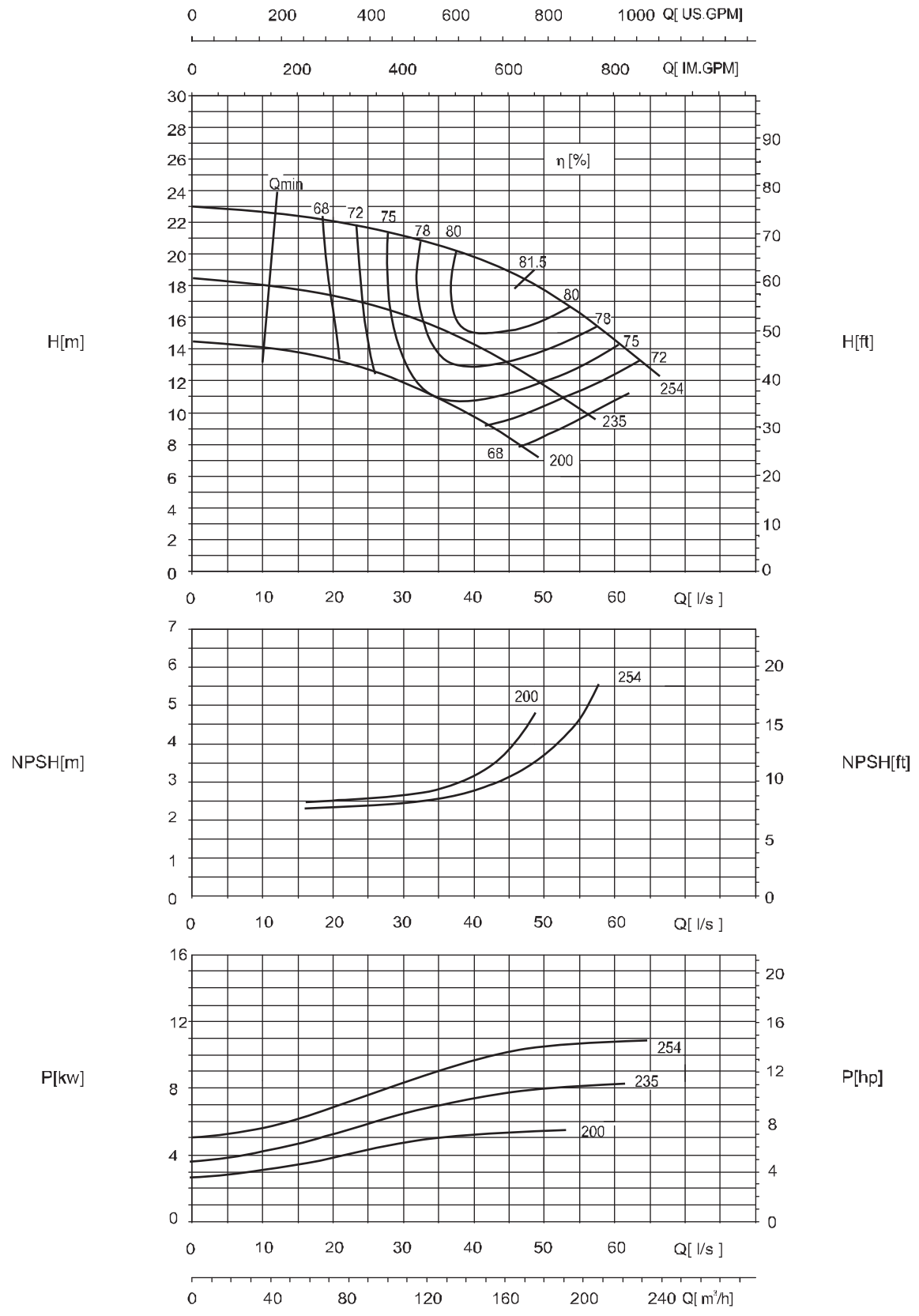
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 150–100–250

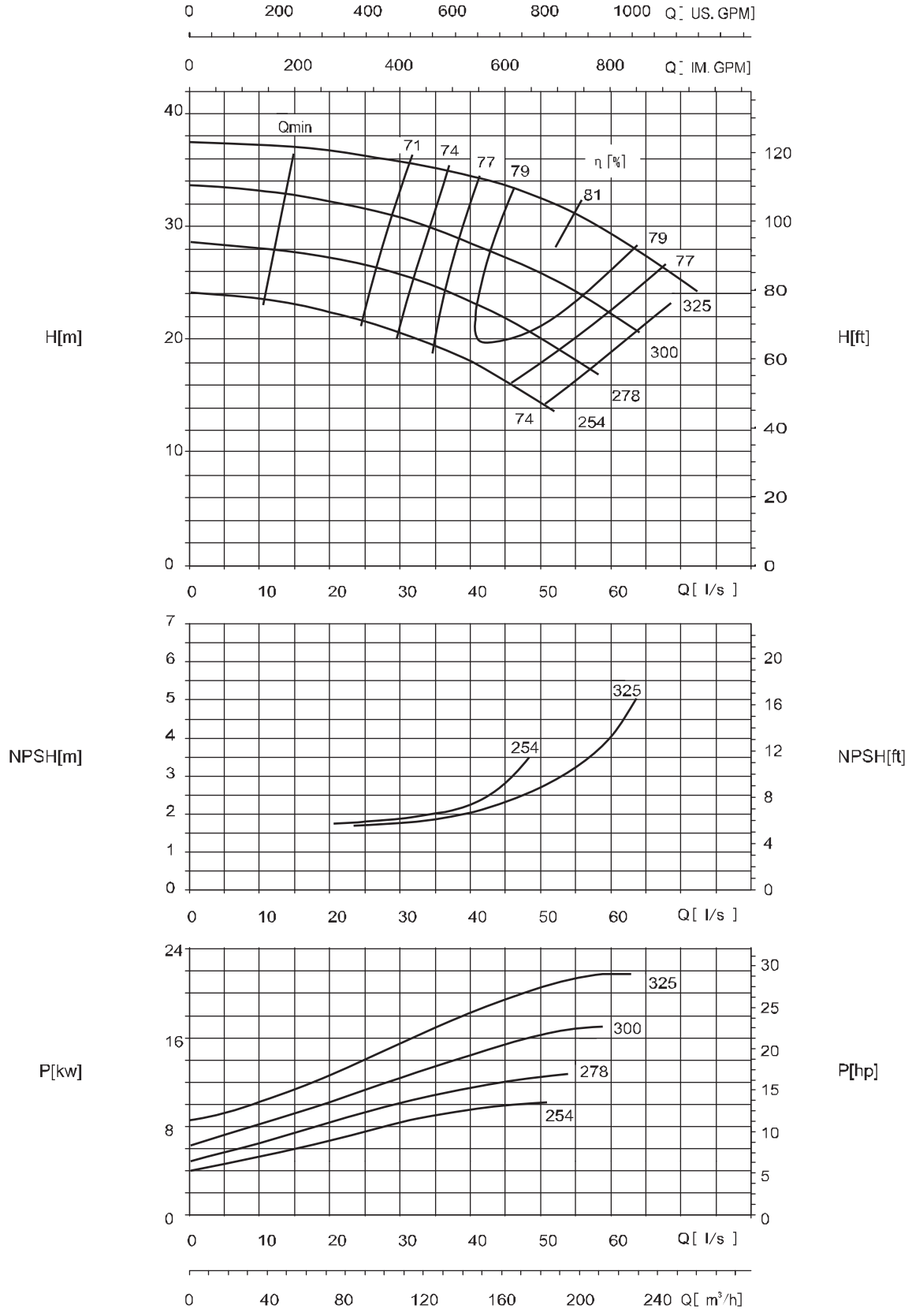
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 150–100–320

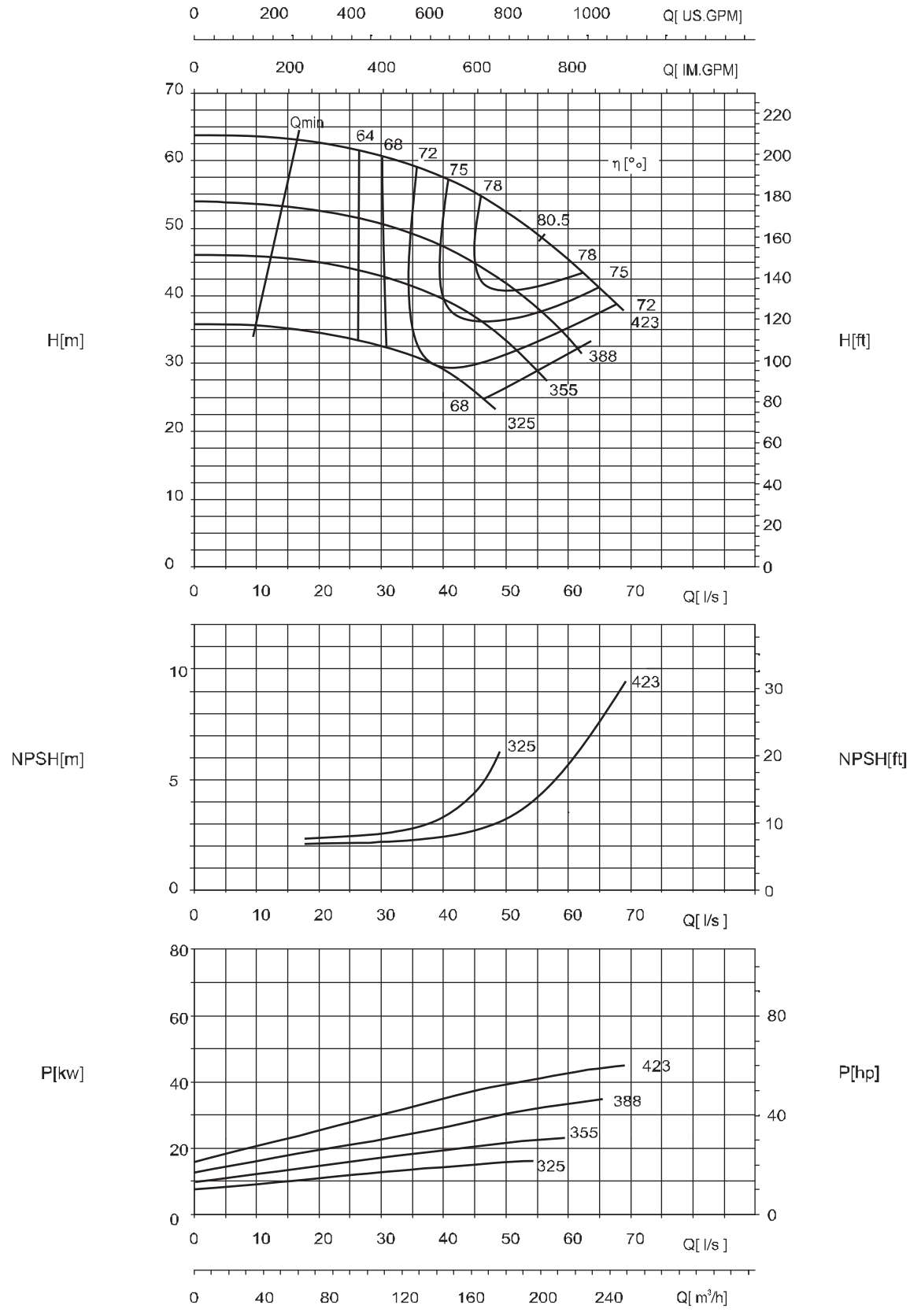
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 150–100–400

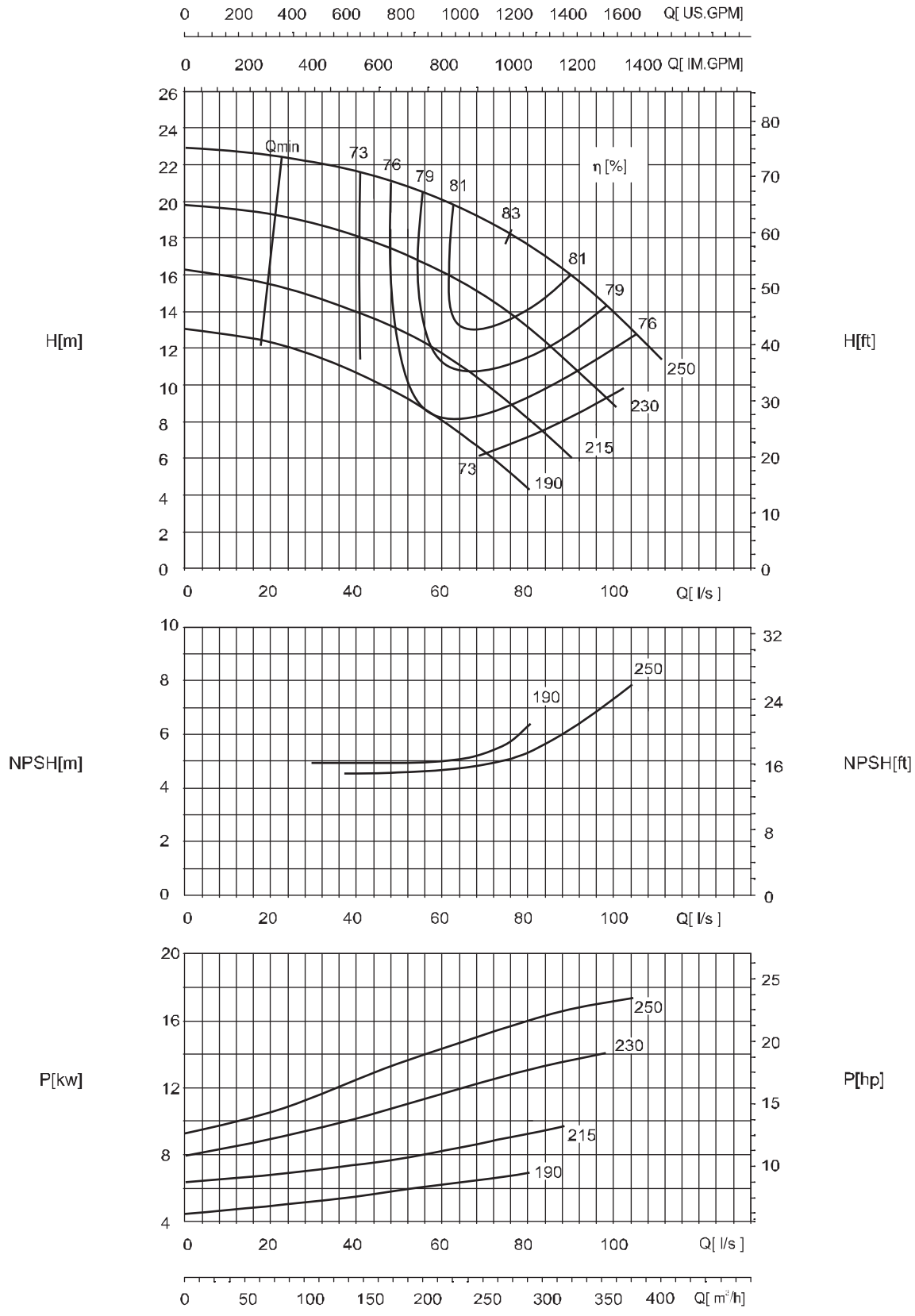
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–125–240

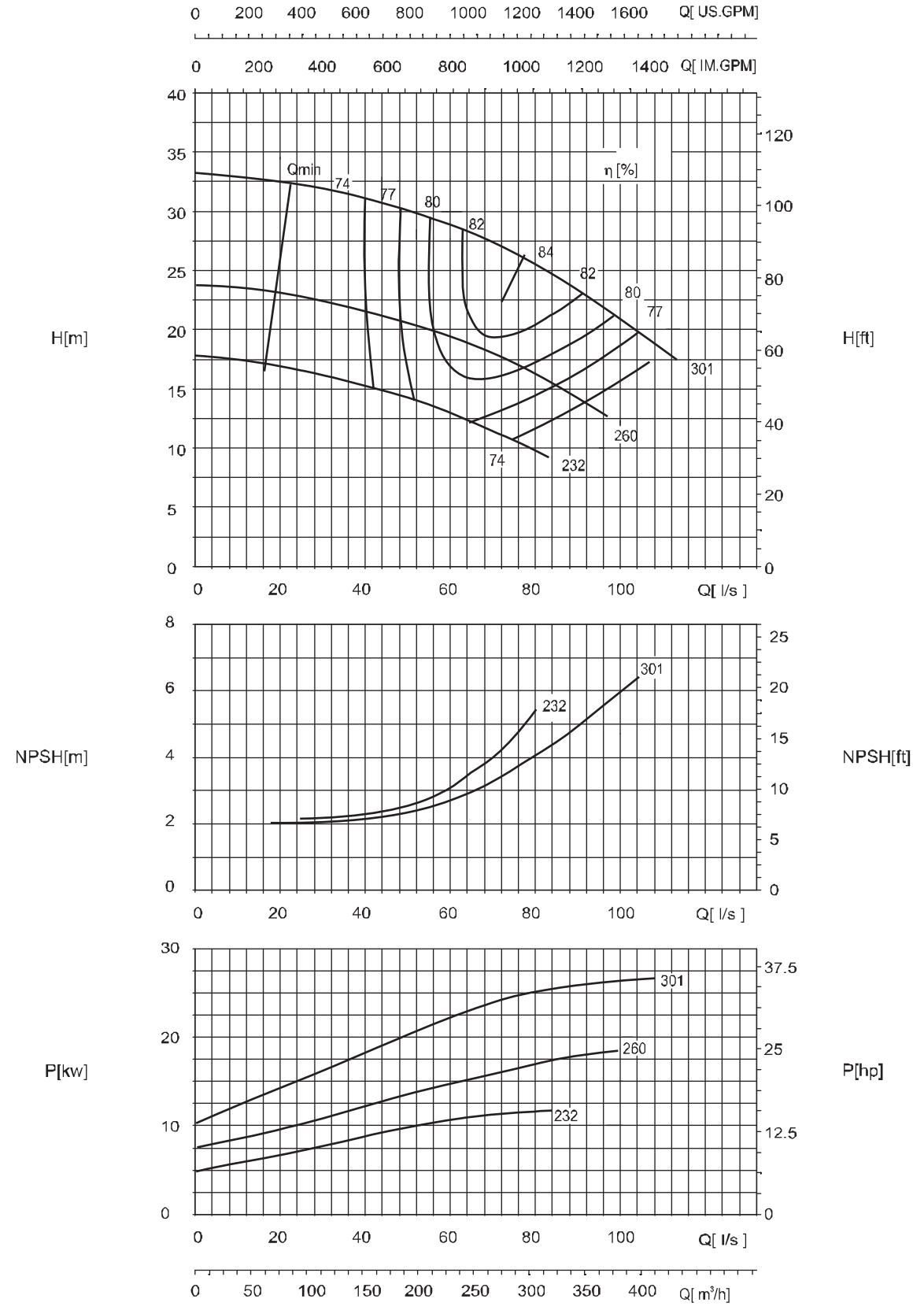
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–125–300

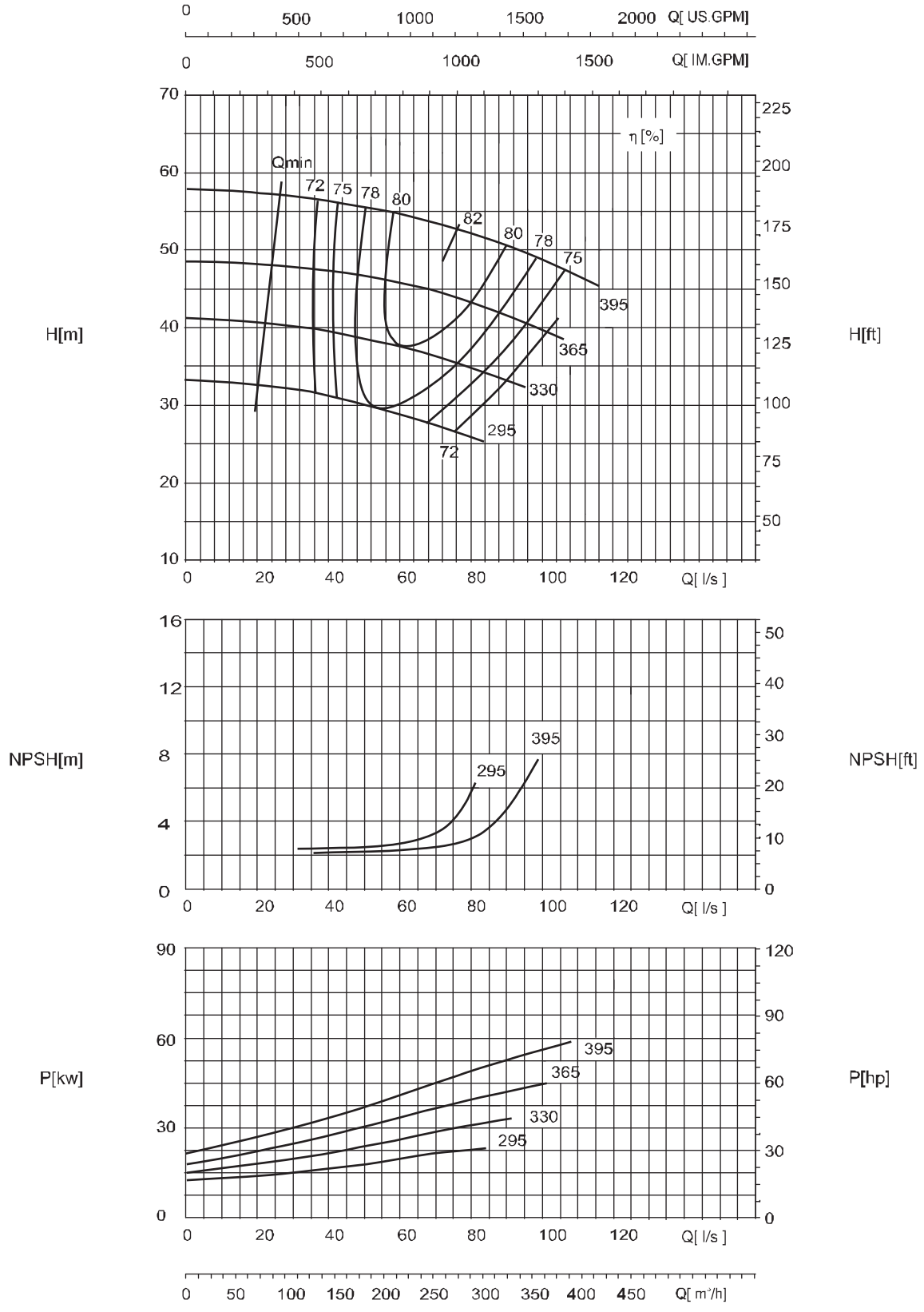
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–125–380

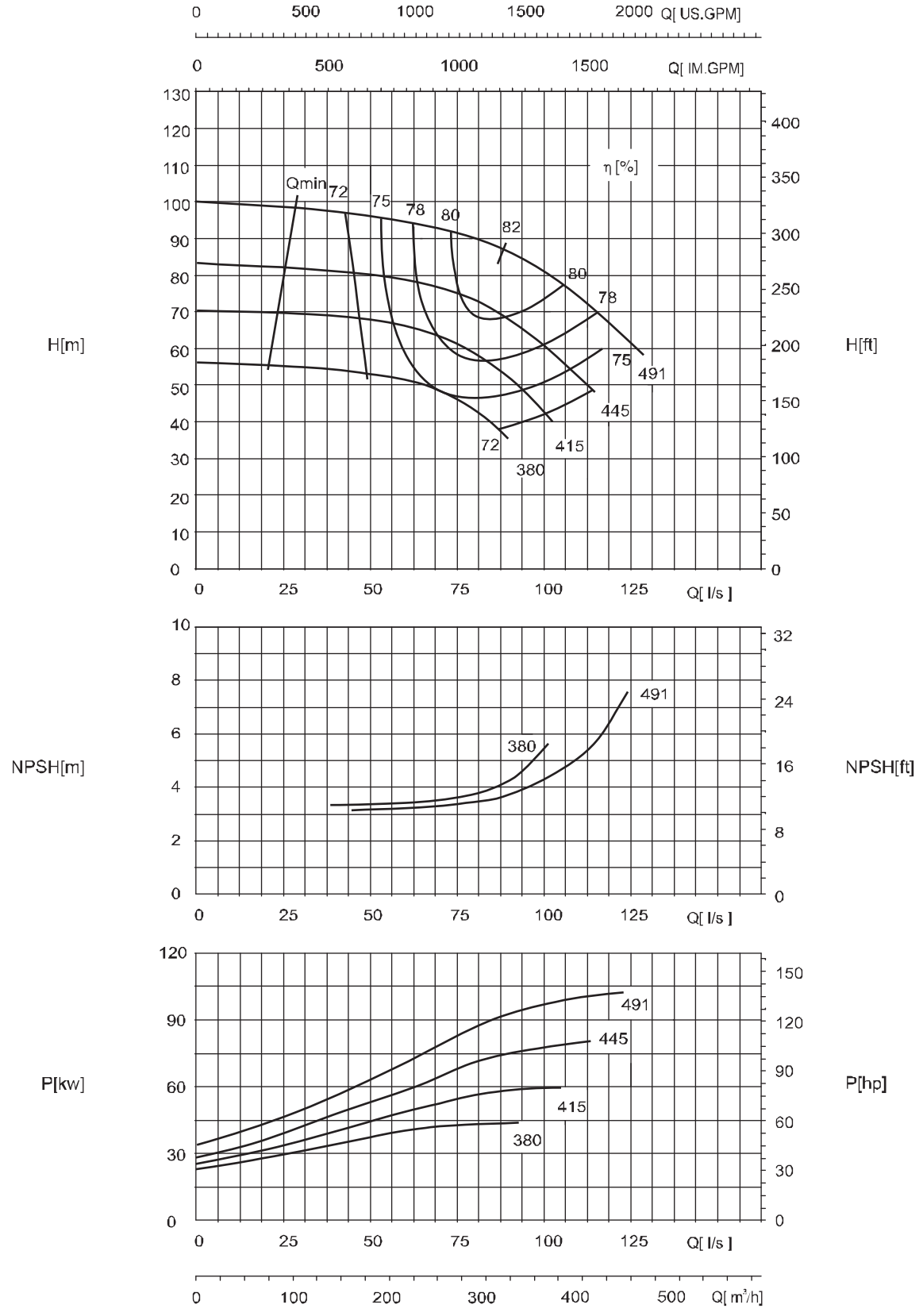
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–125–480

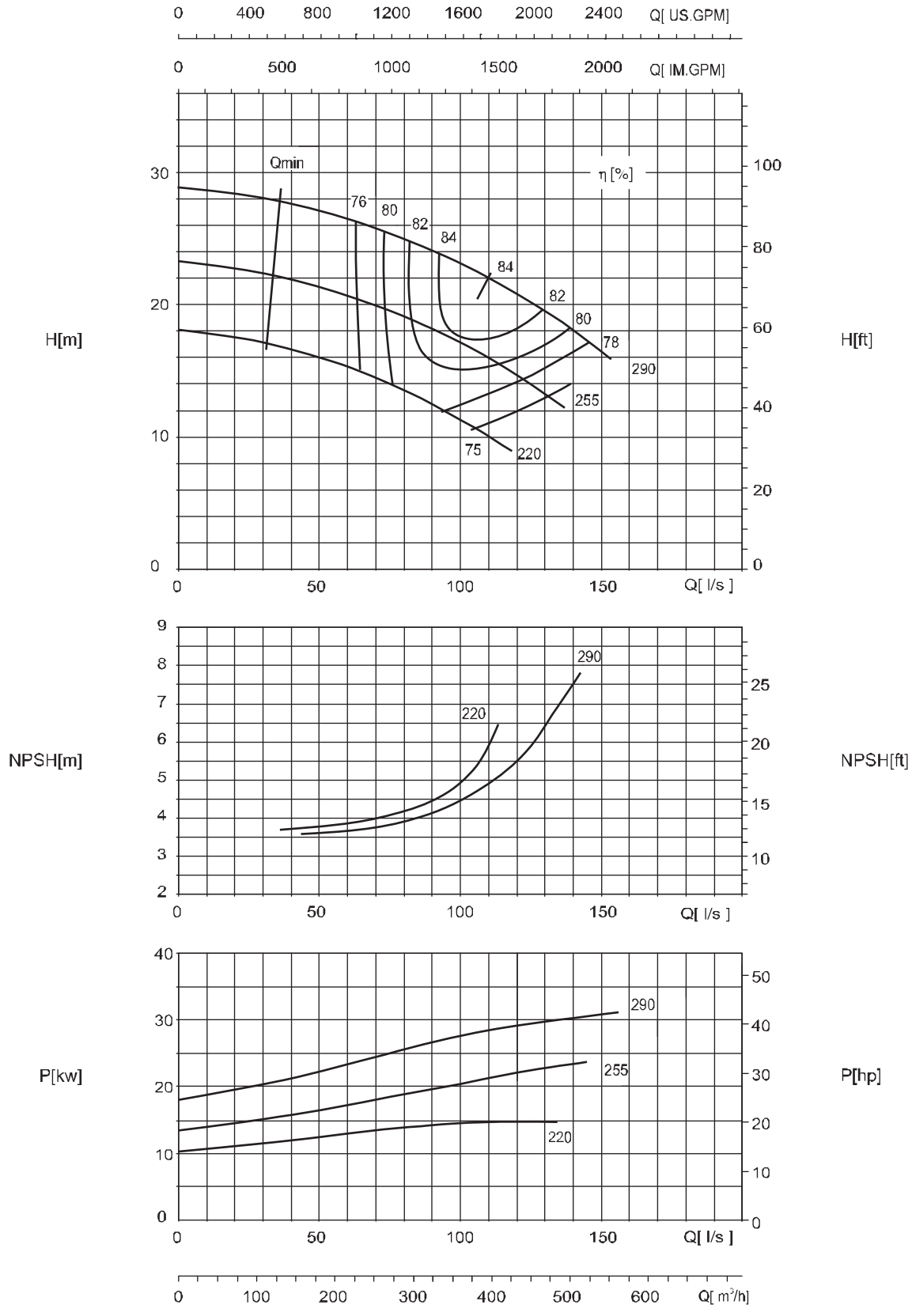
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–150–290

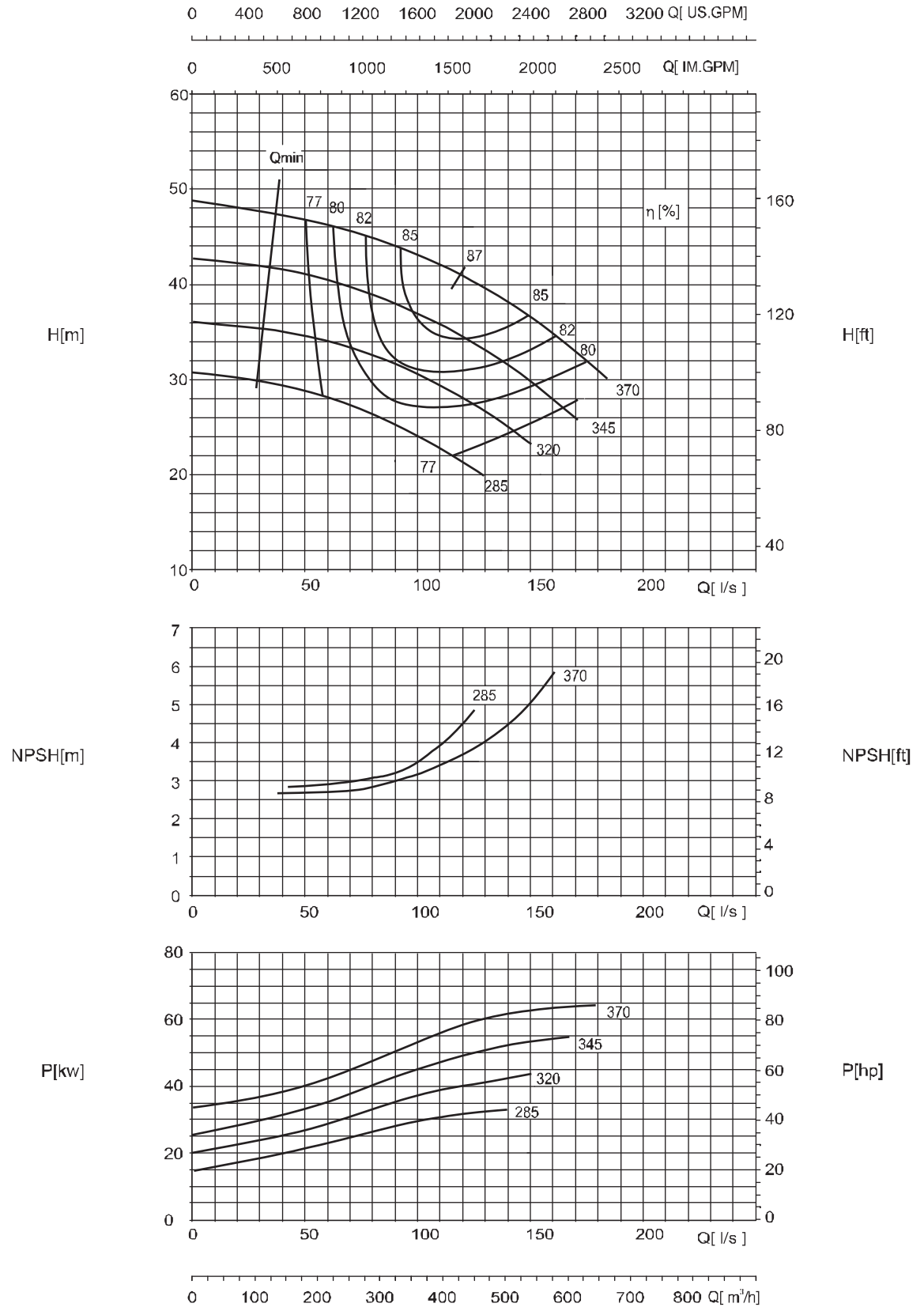
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–150–360

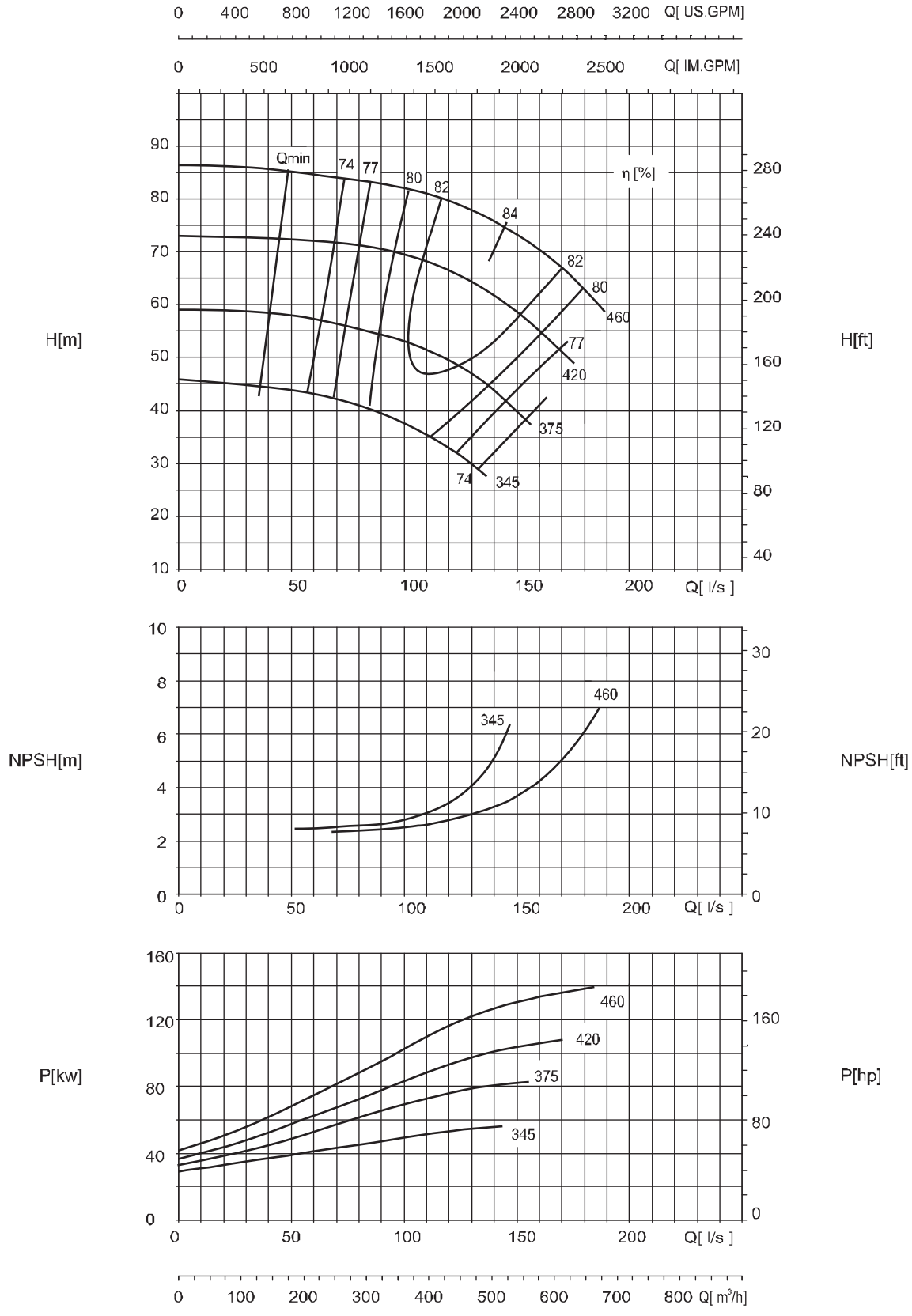
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–150–460

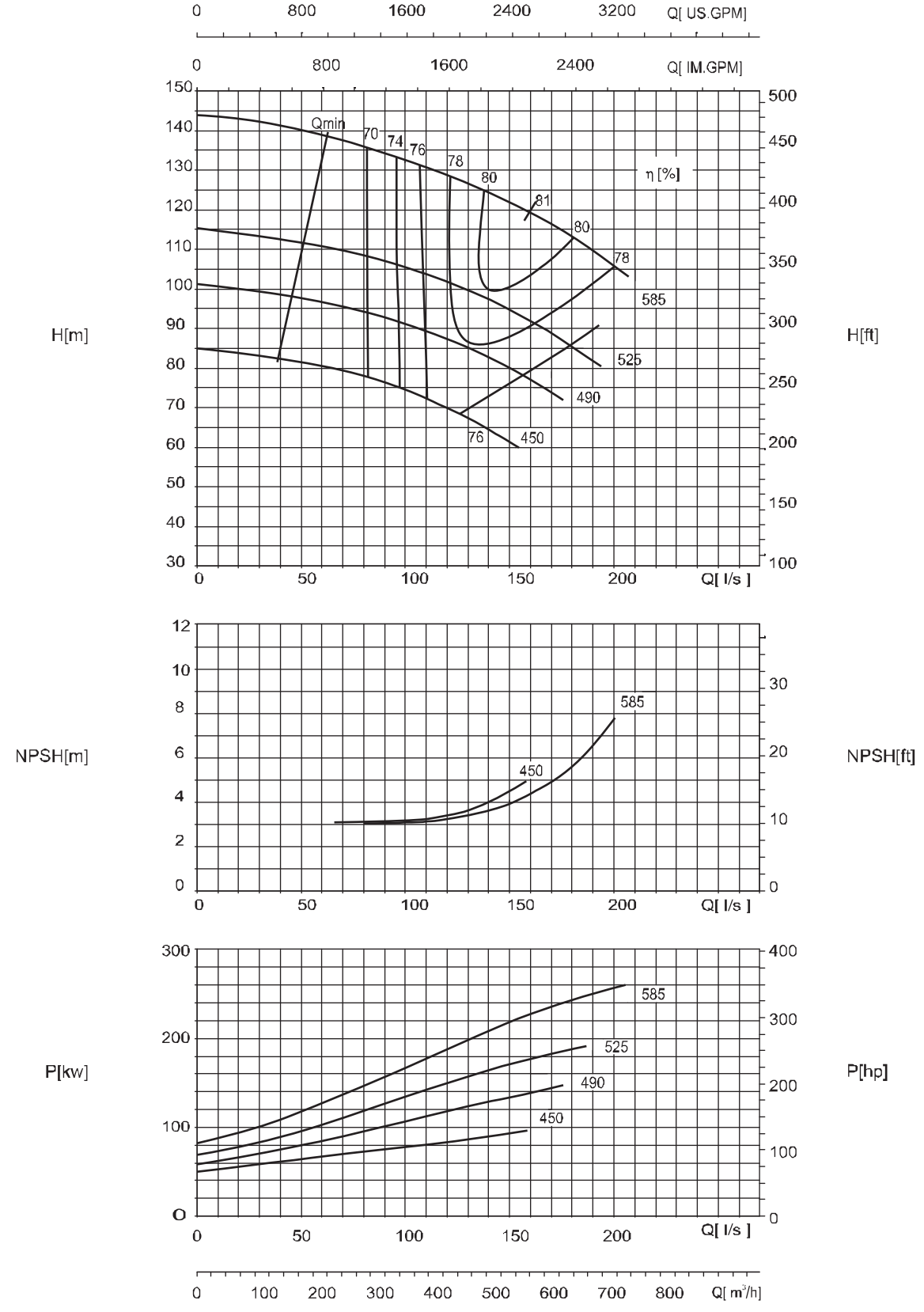
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 200–150–570

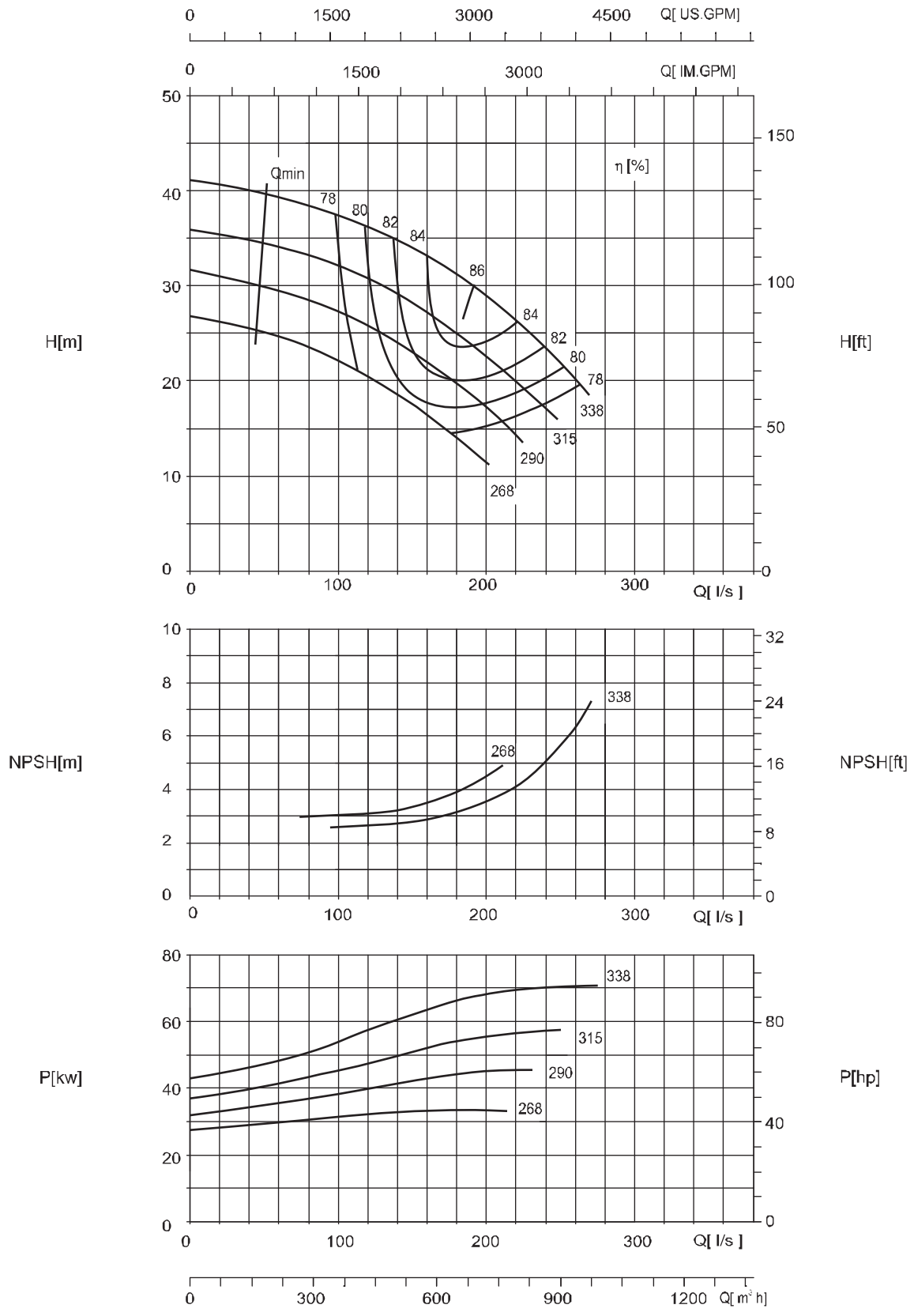
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC250–200–340

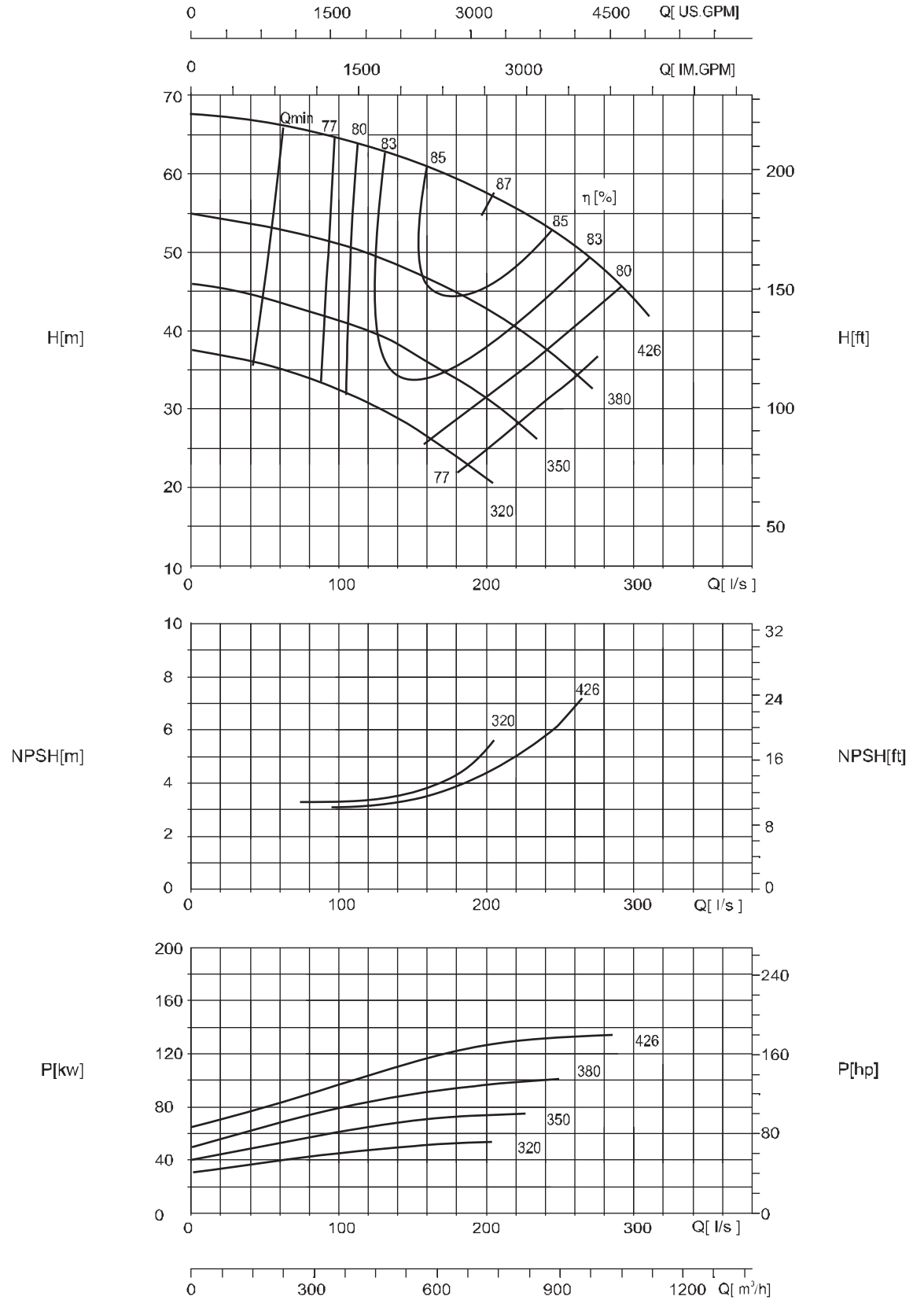
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 250–200–430

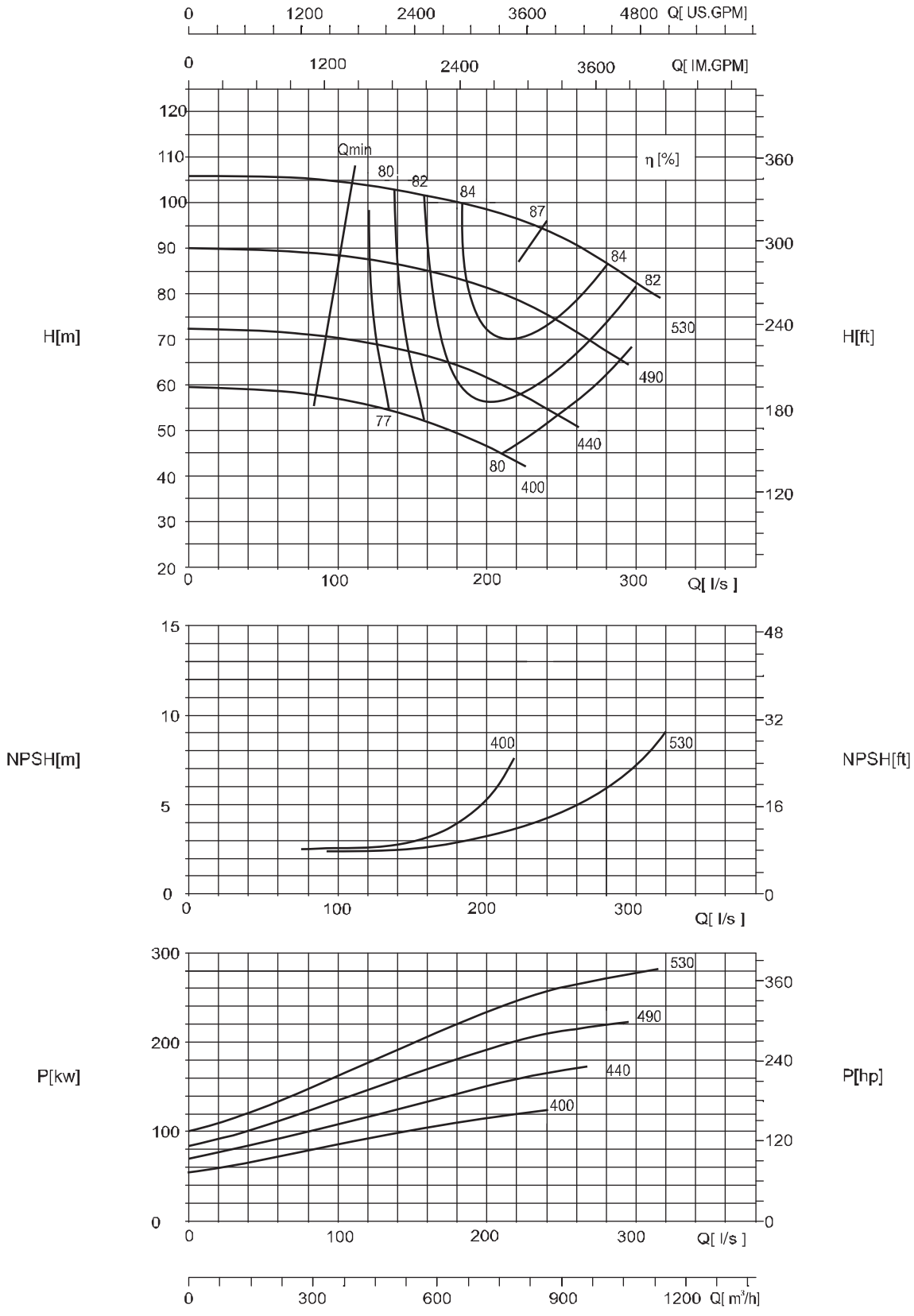
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 250–200–530

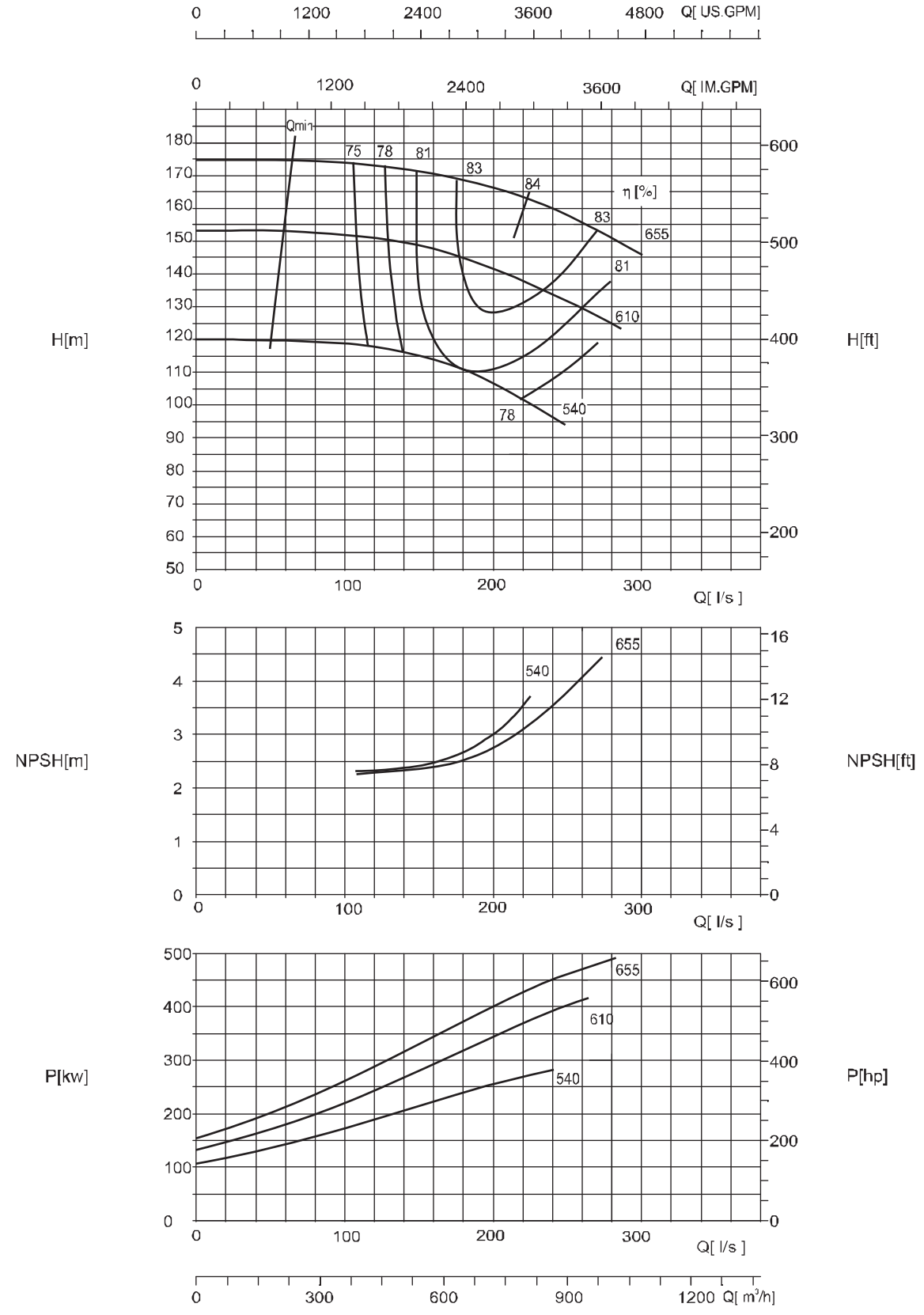
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 250–200–660

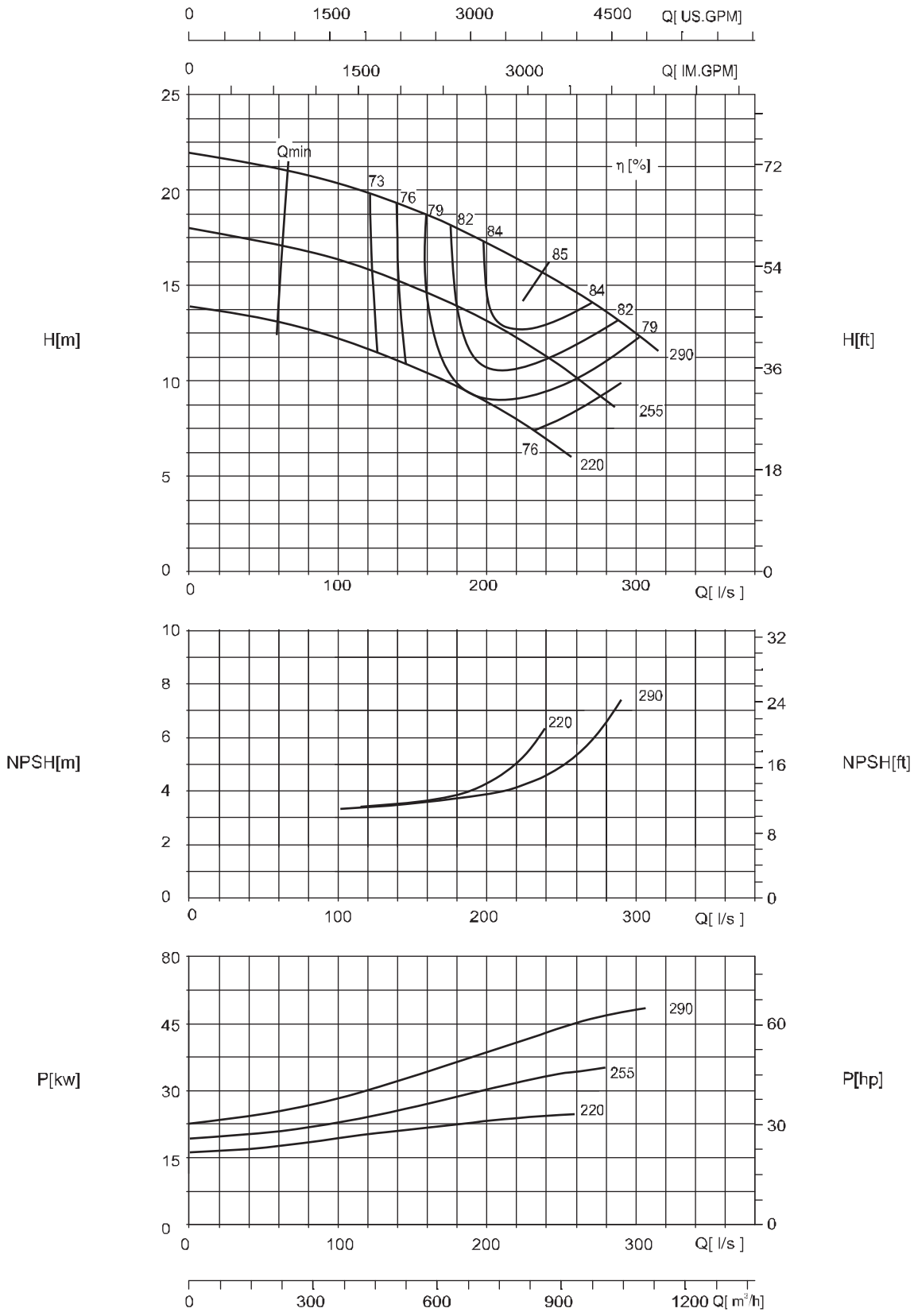
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

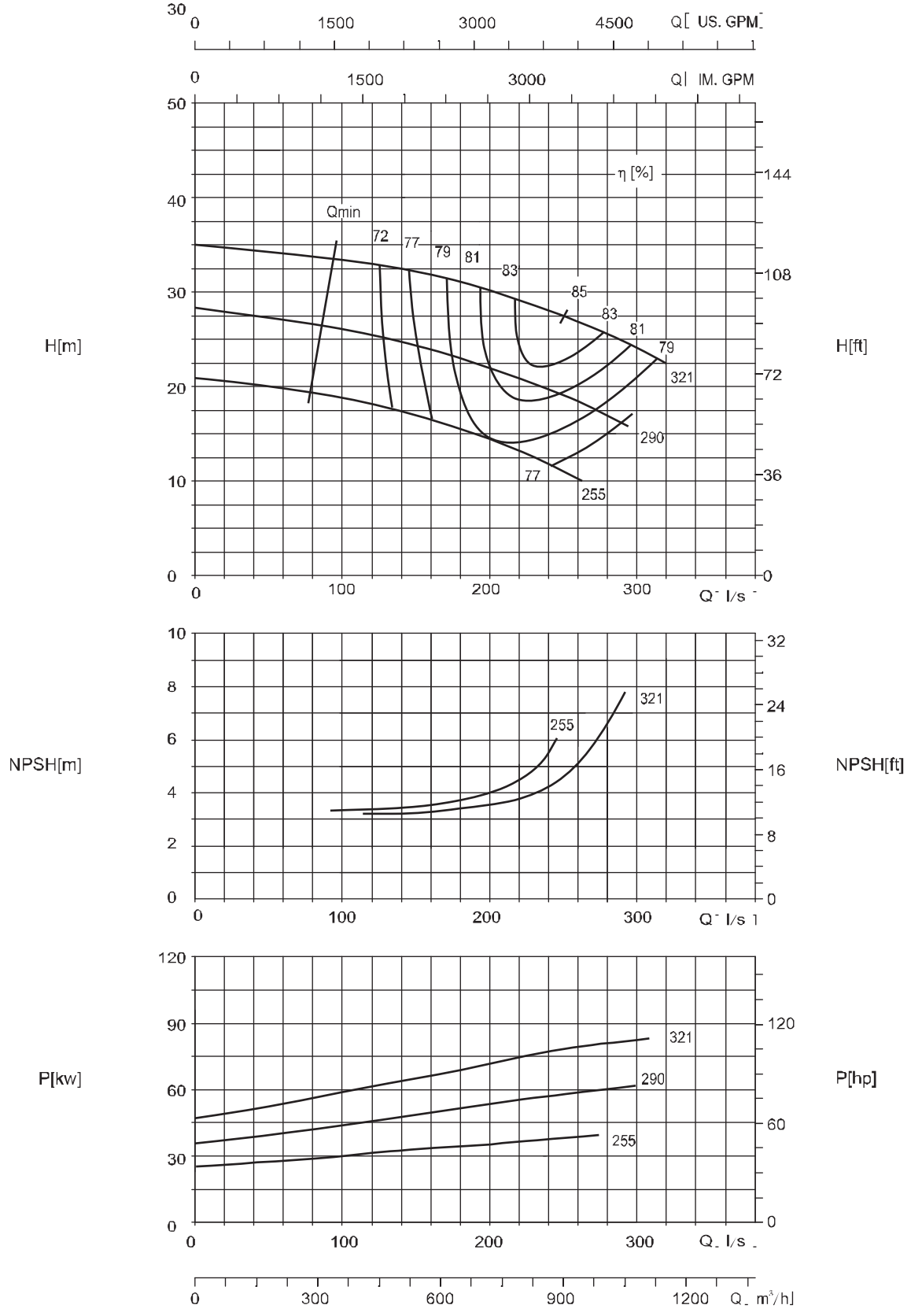
NSC300–250–270

1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

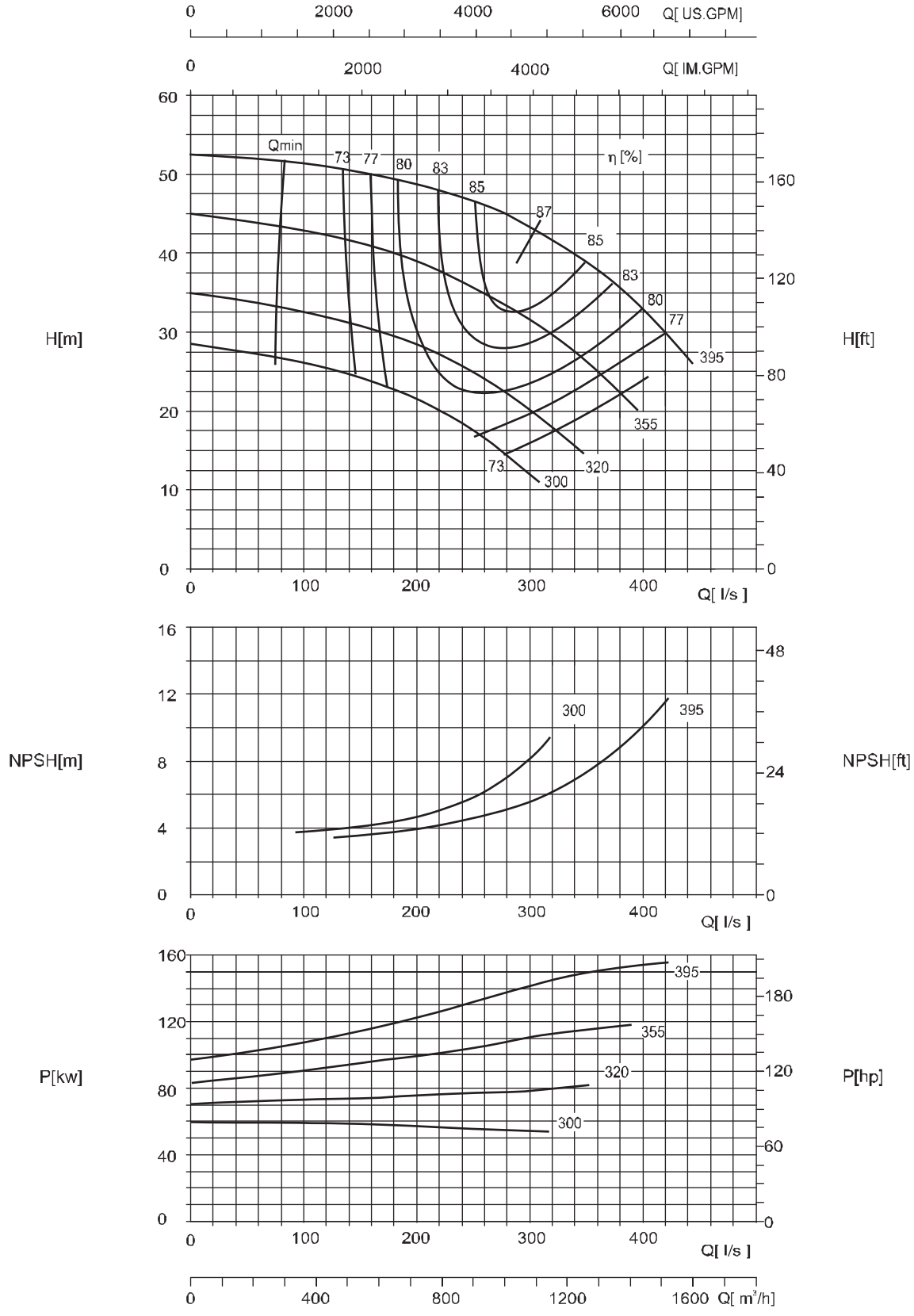
NSC300-250-280 1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm³ and a kinetic viscosity of 20 mm²/s .

NSC300-250-390

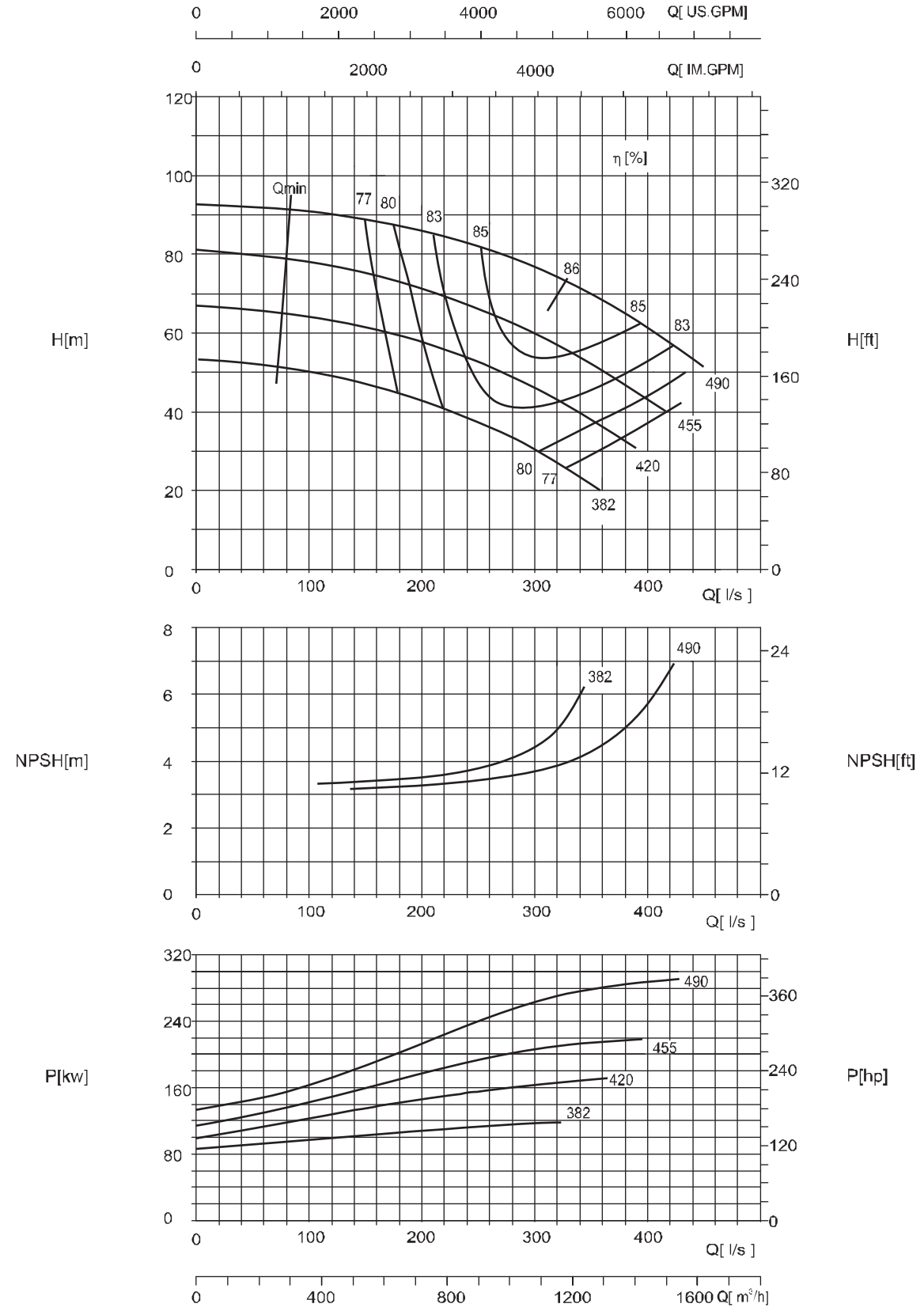
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 300–250–490

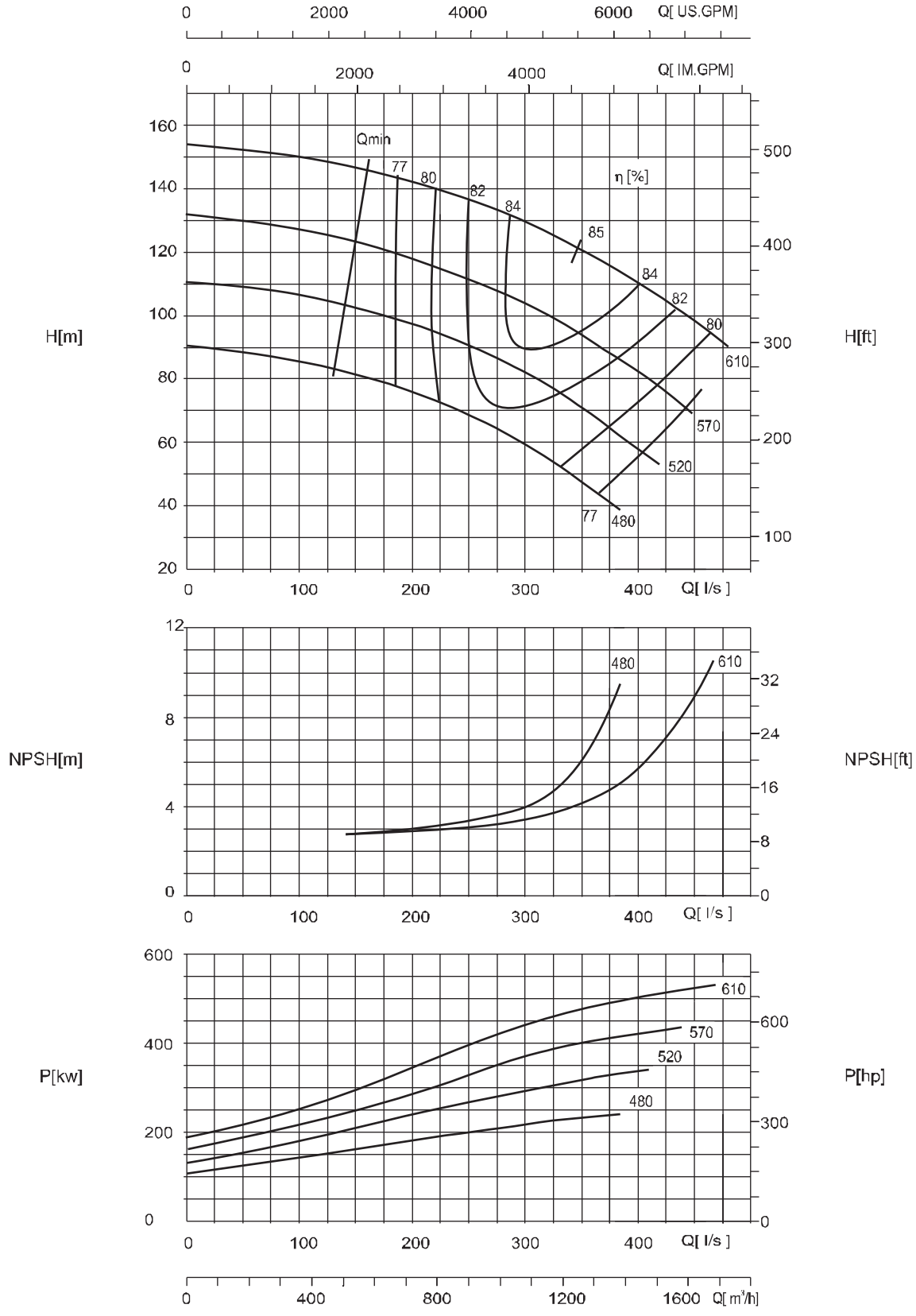
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 300–250–610

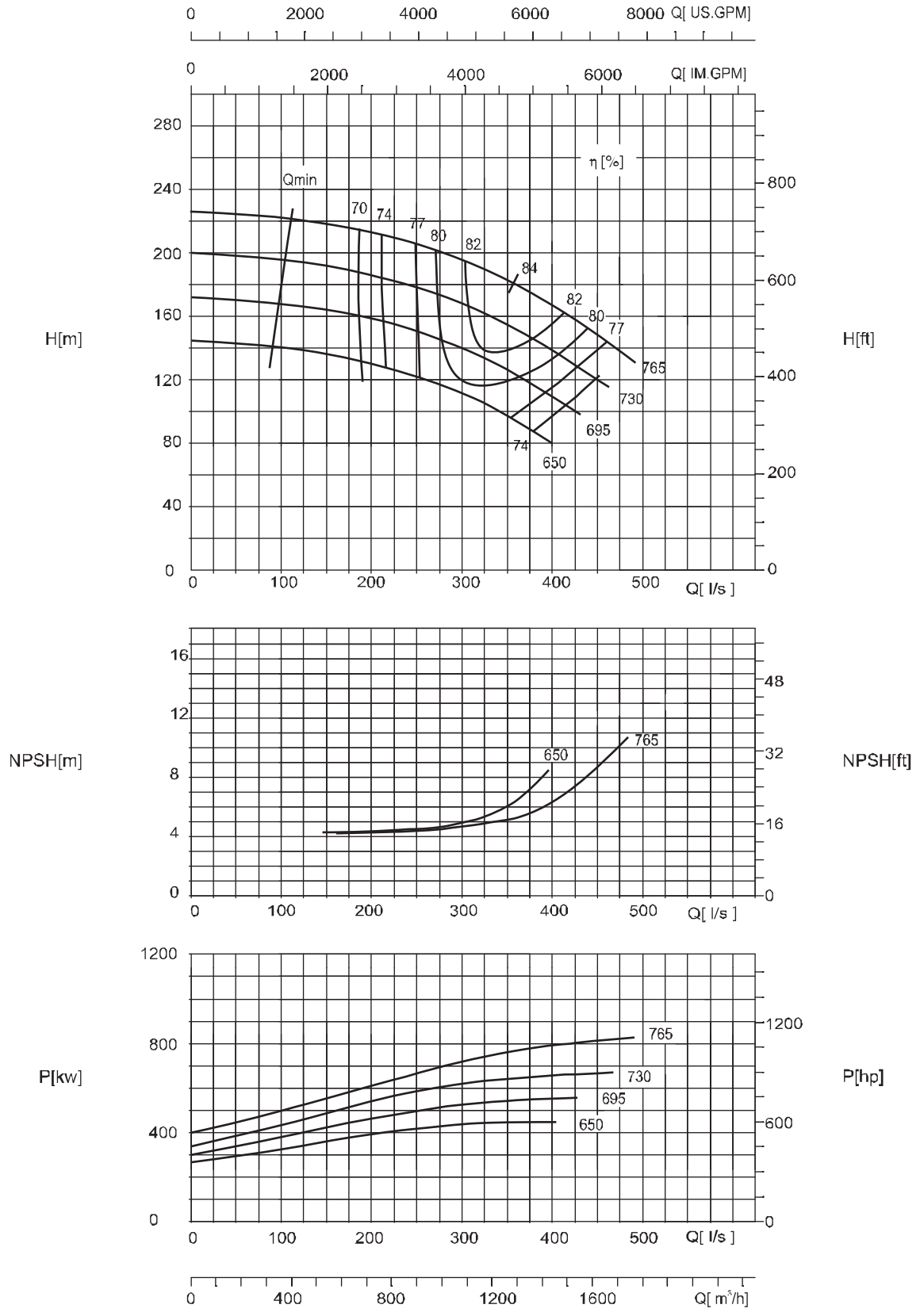
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 300–250–780

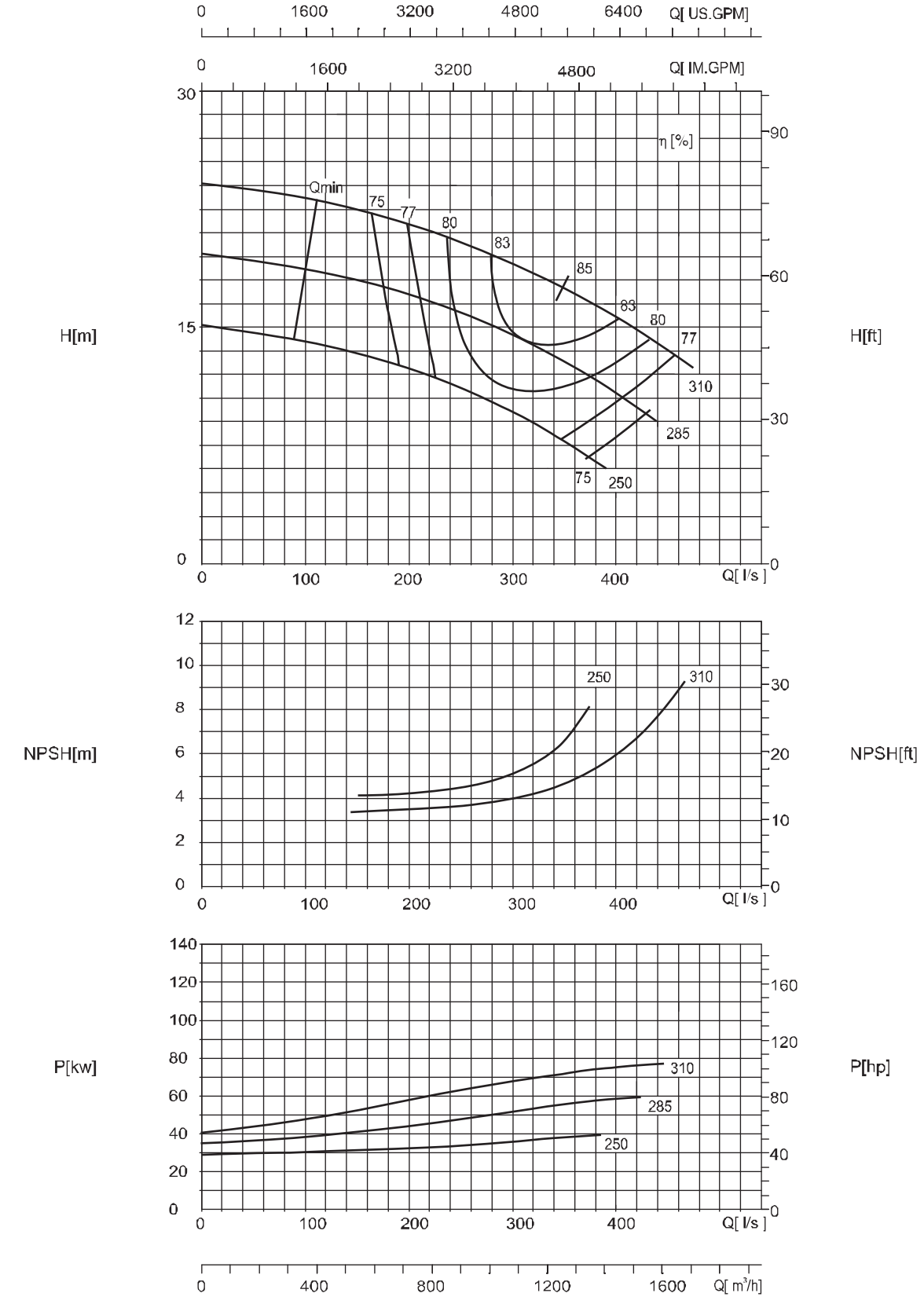
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm³ and a kinetic viscosity of 20 mm²/s .

NSC 350–300–310

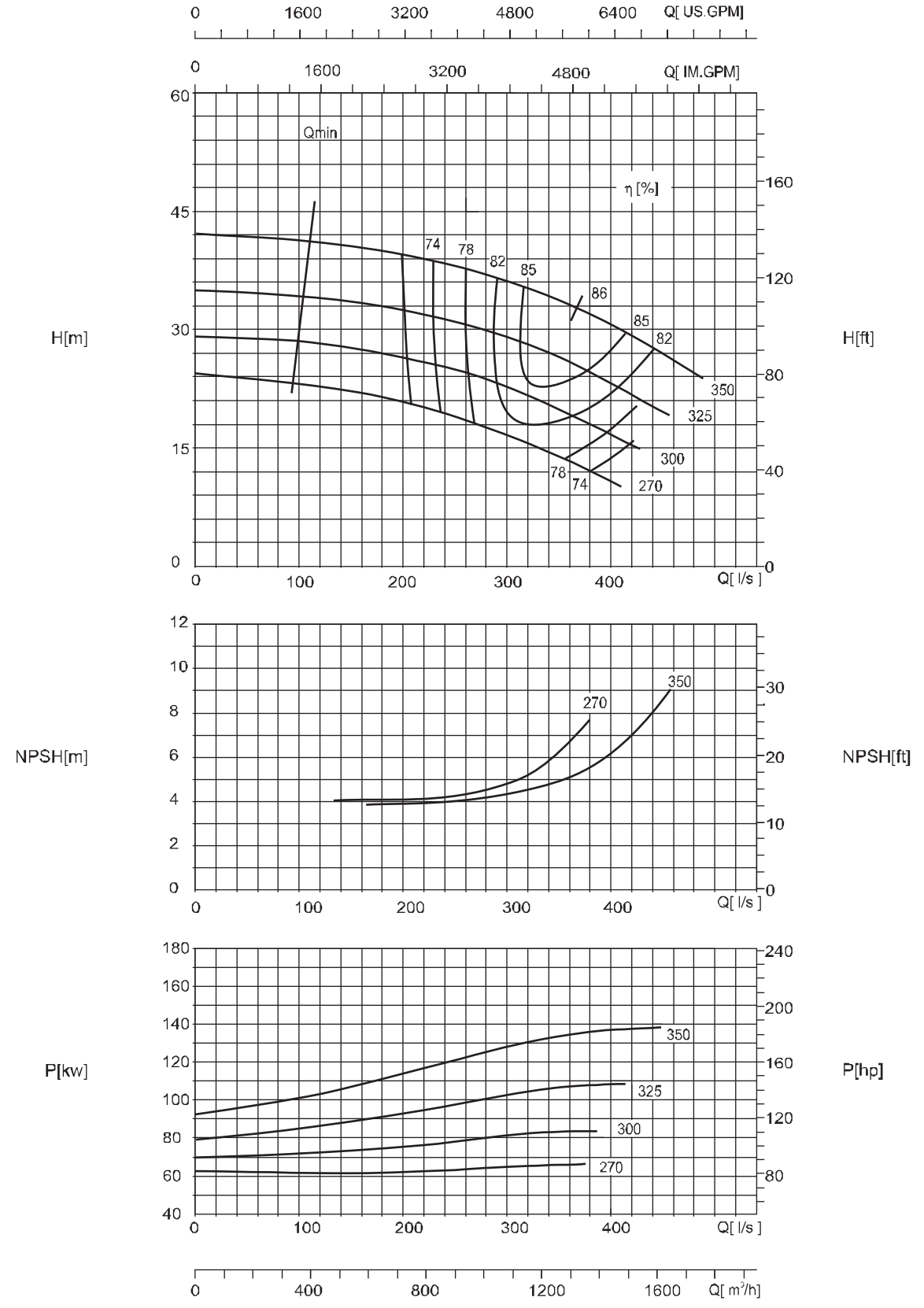
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 350–300–330

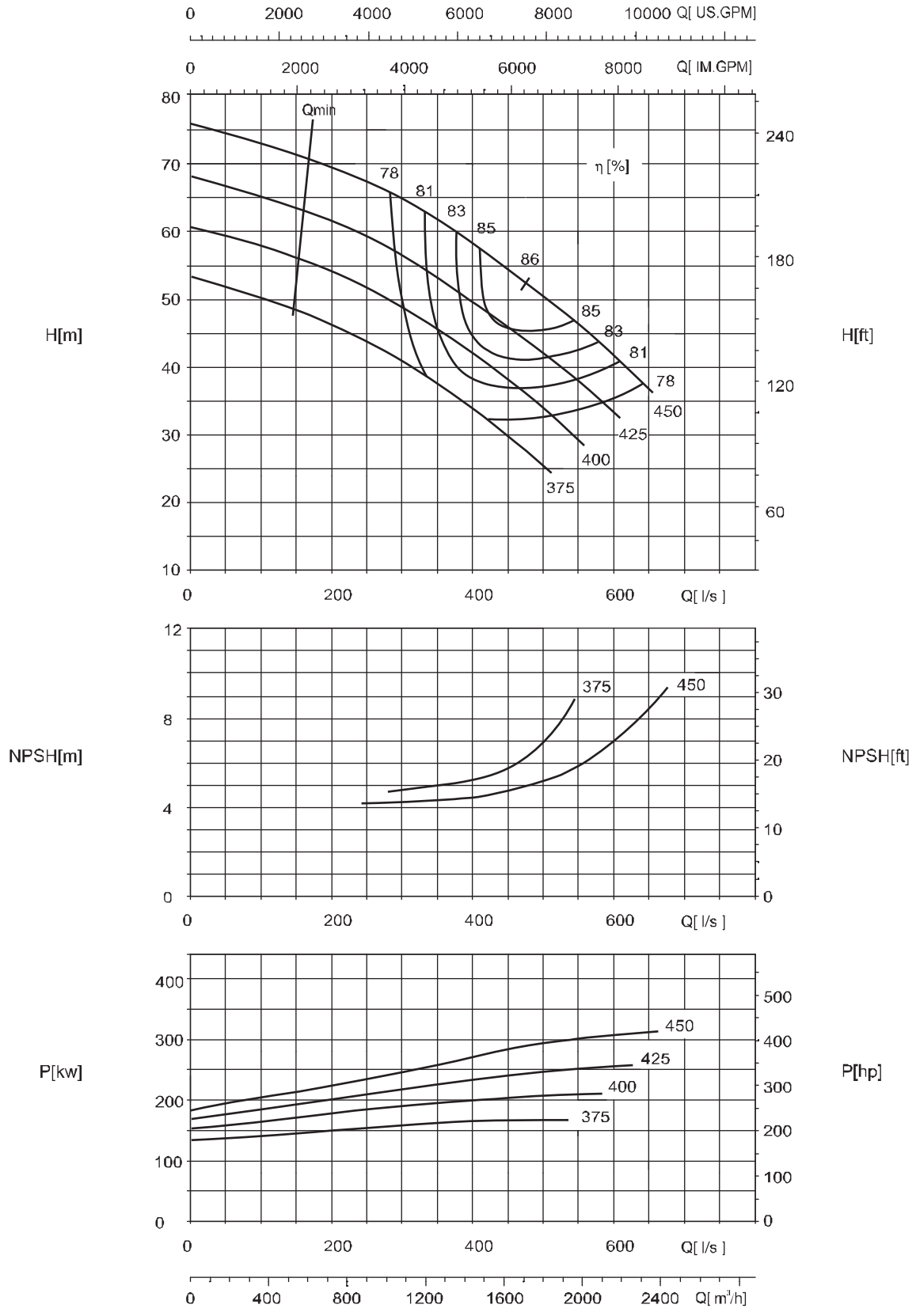
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 400–300–450

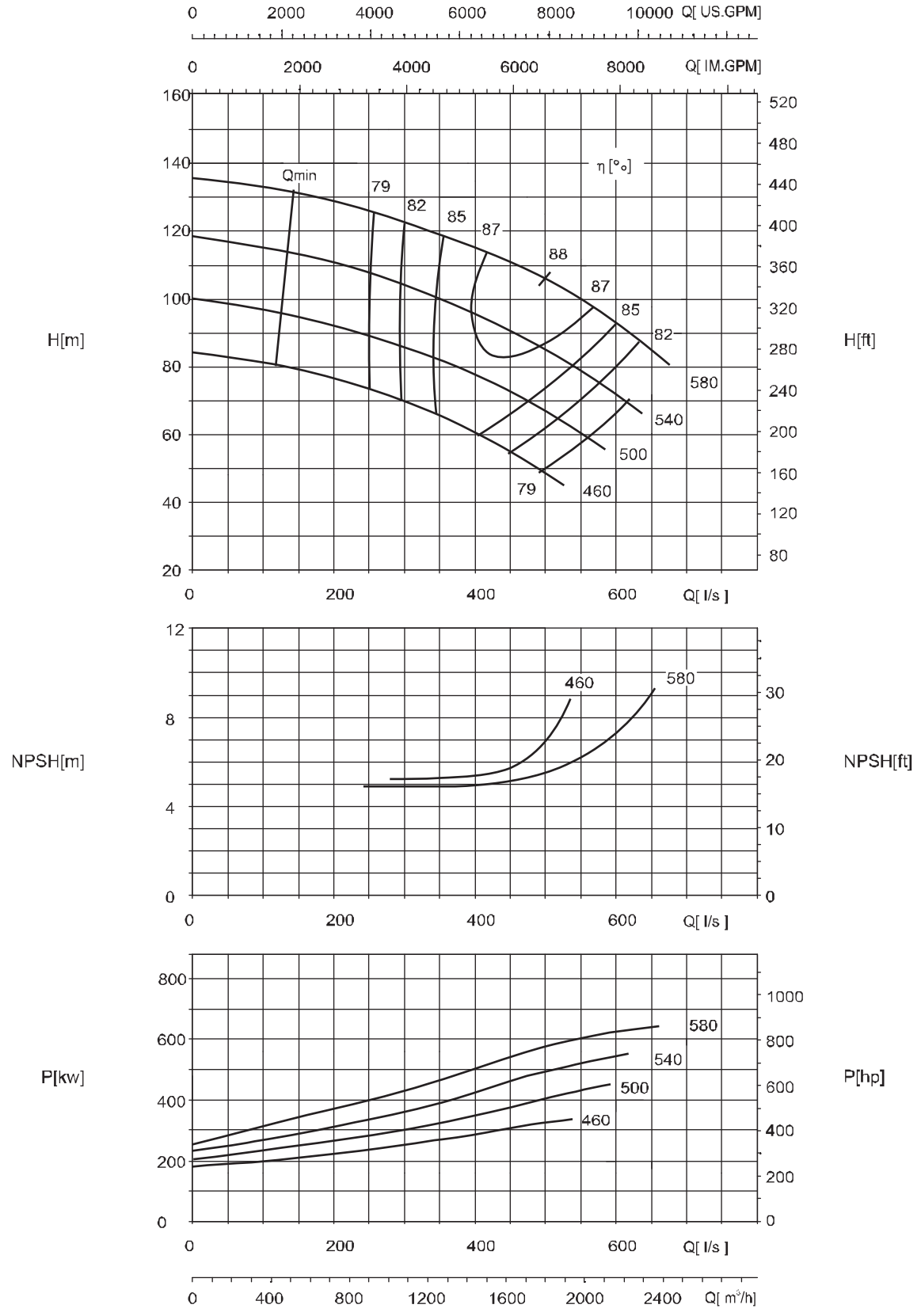
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

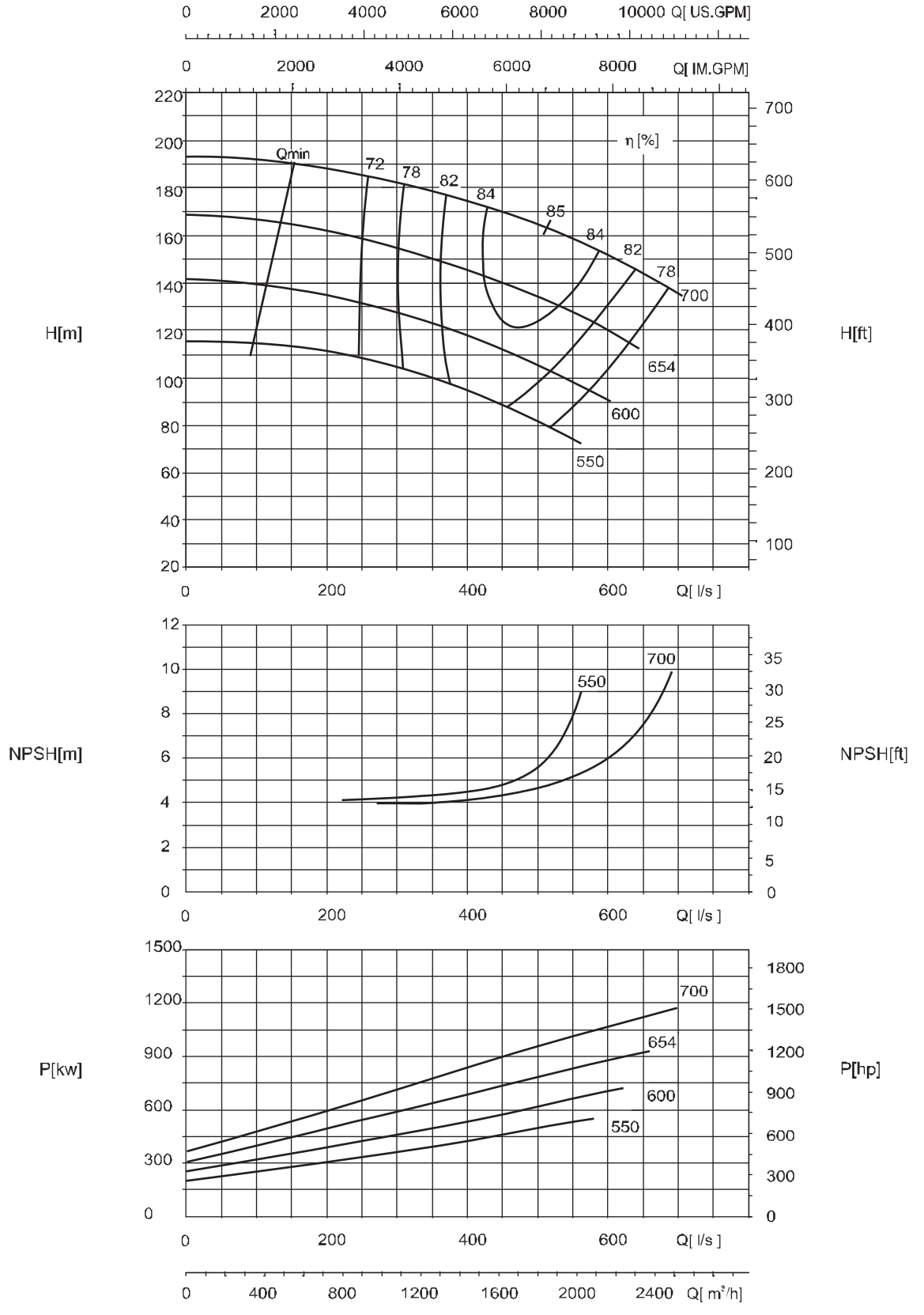
NSC 400–300–570

1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

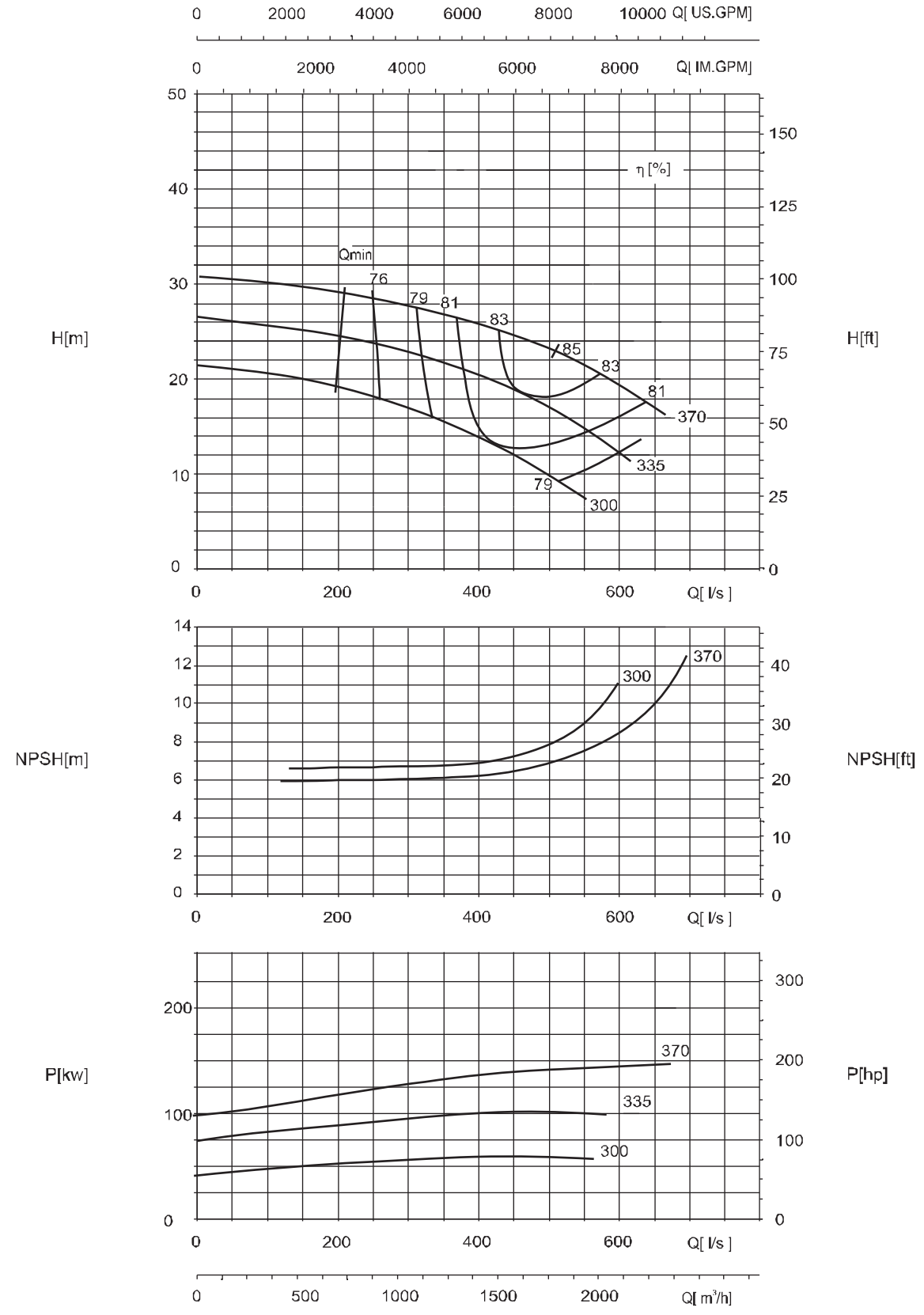
NSC 400–300–700 1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 400–350–360

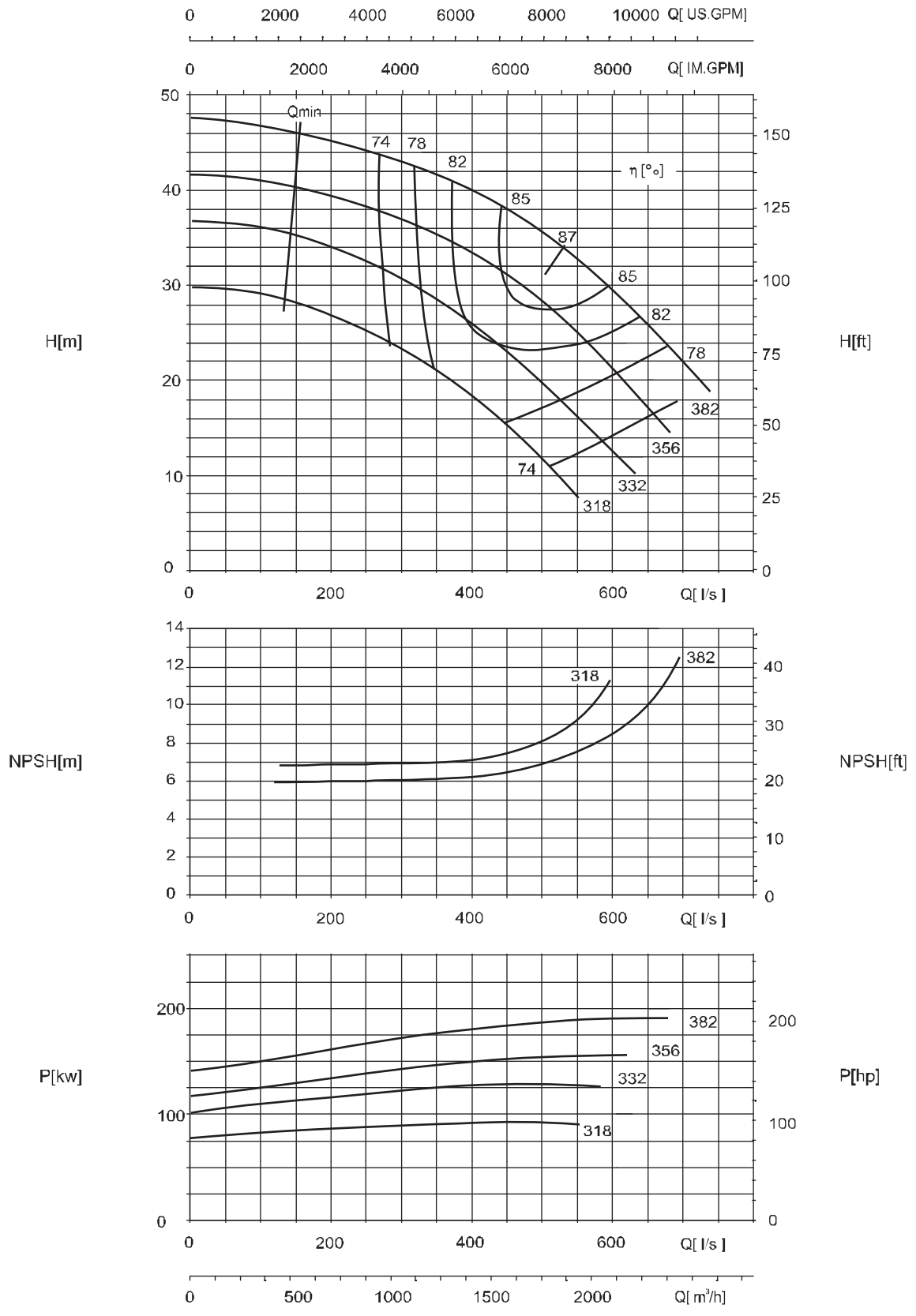
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 400–350–380

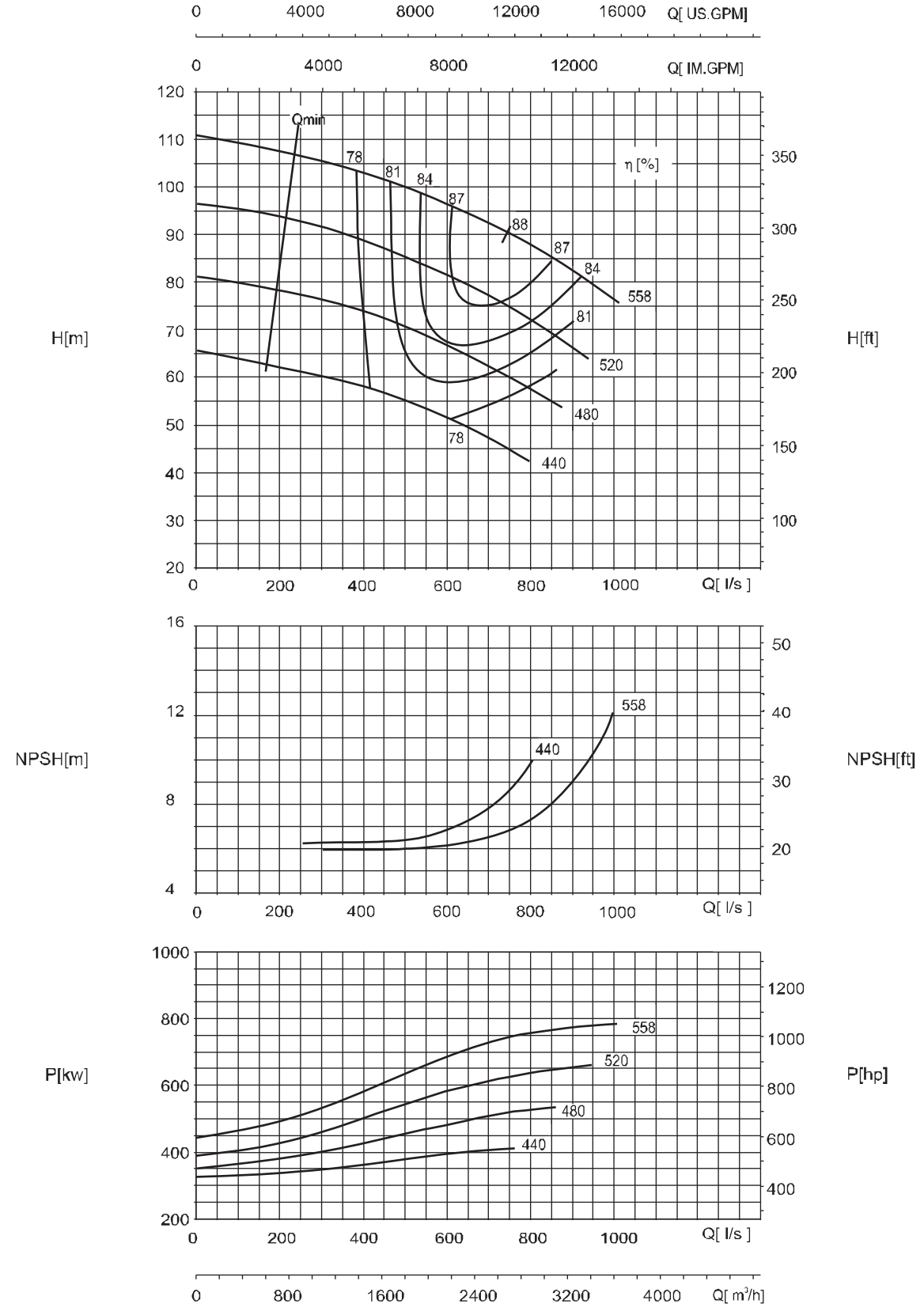
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

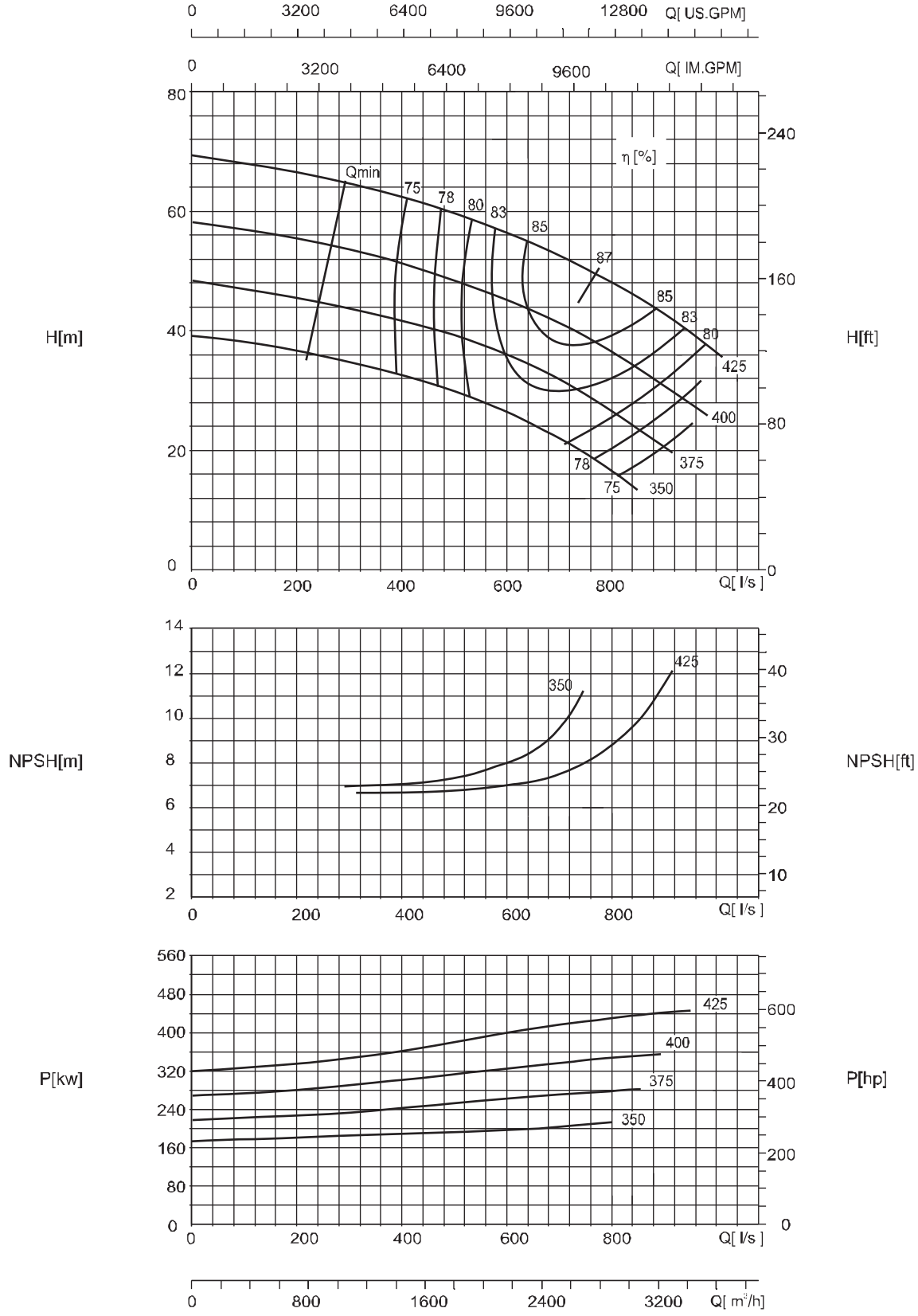
NSC400–350–520

1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

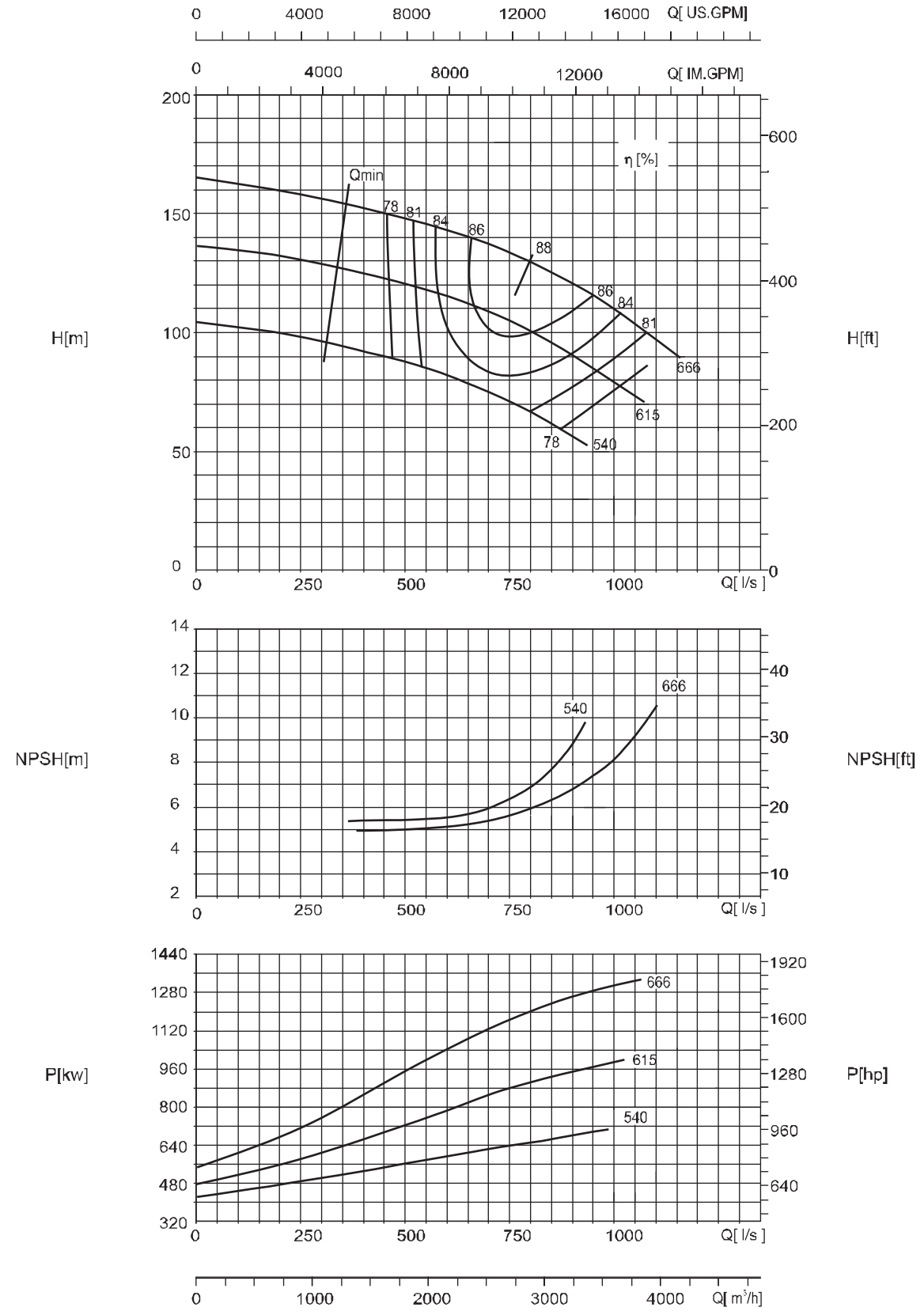
NSC 500–400–420 1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 500–400–660

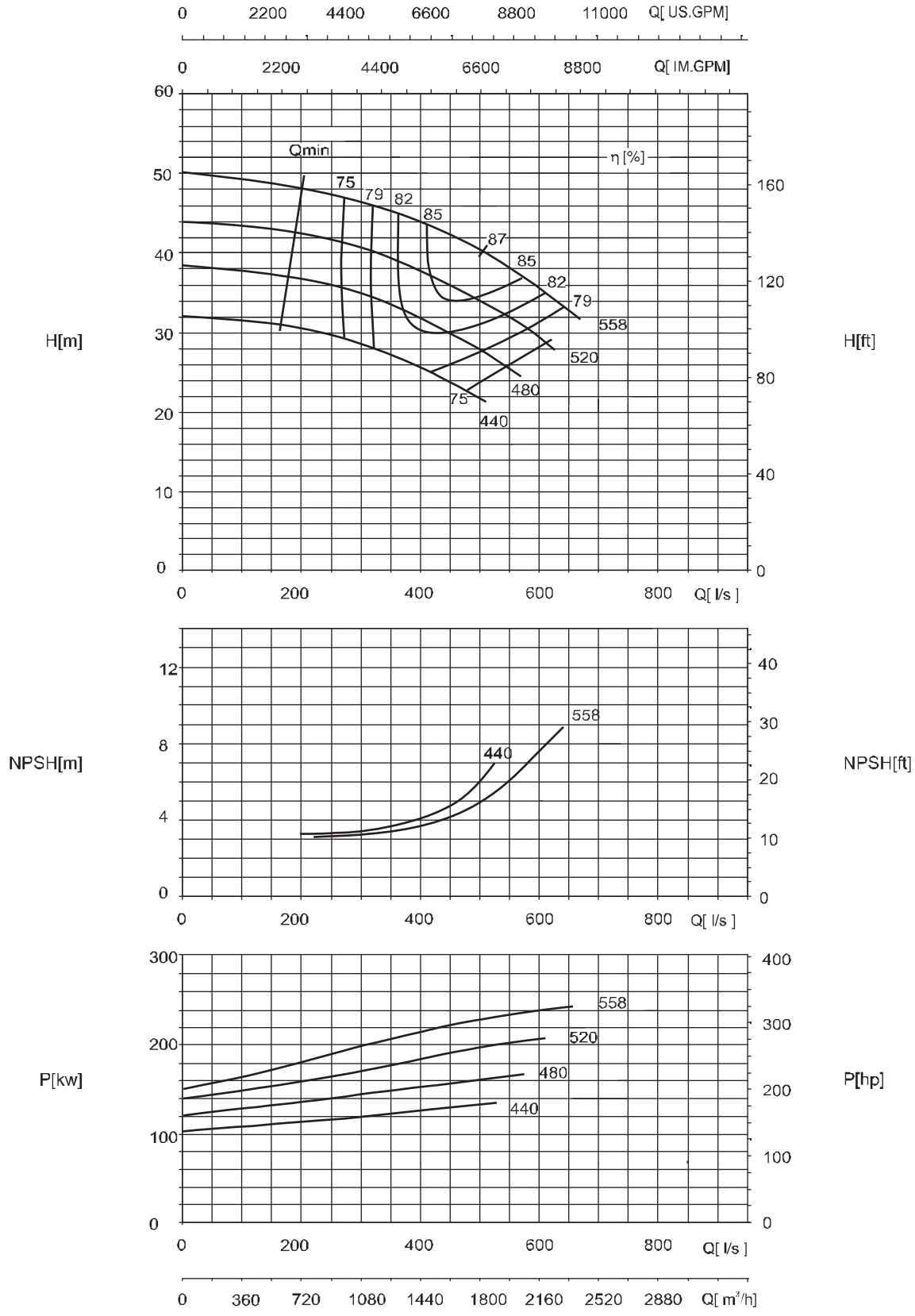
1450 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 400–350–520

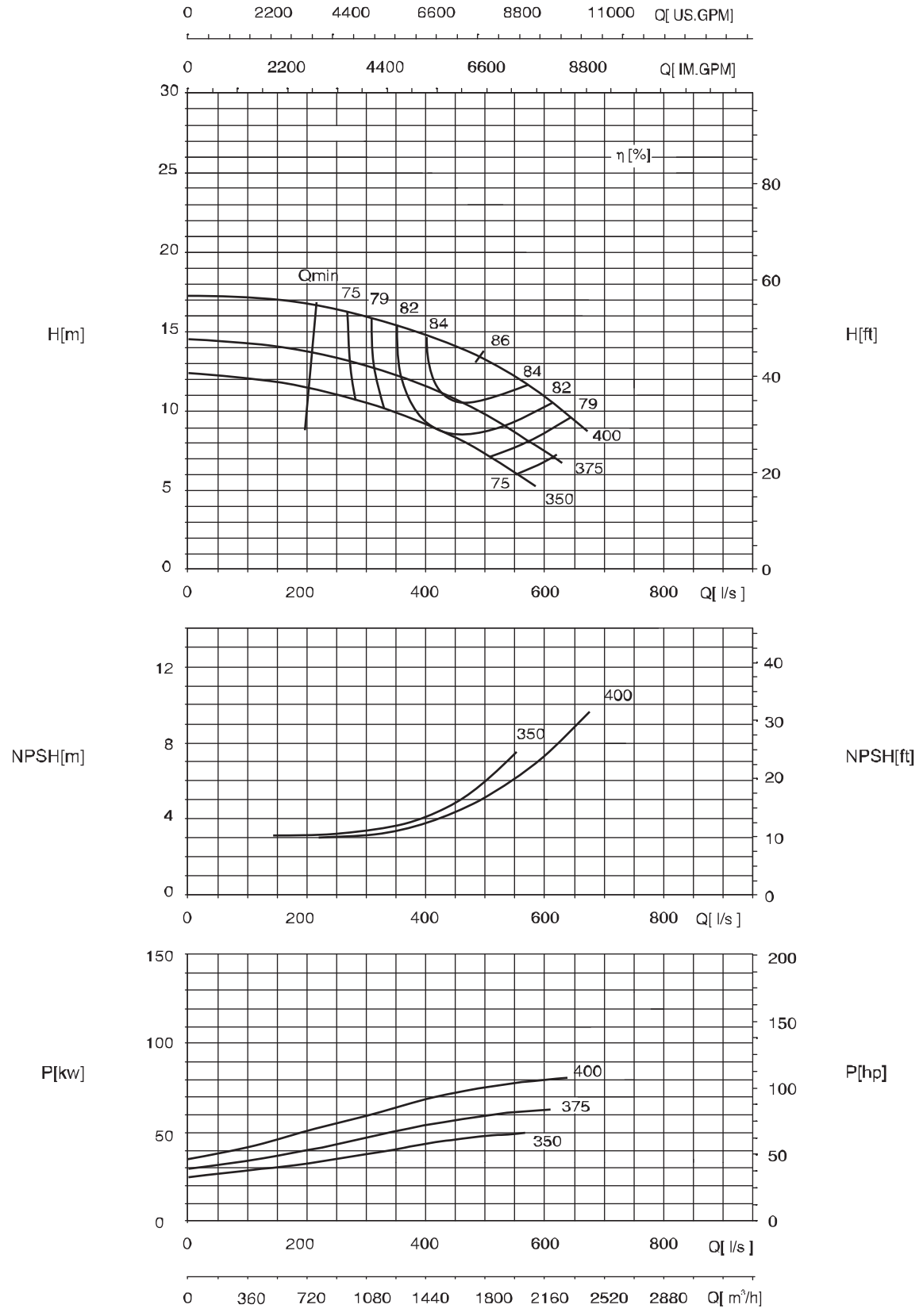
980 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

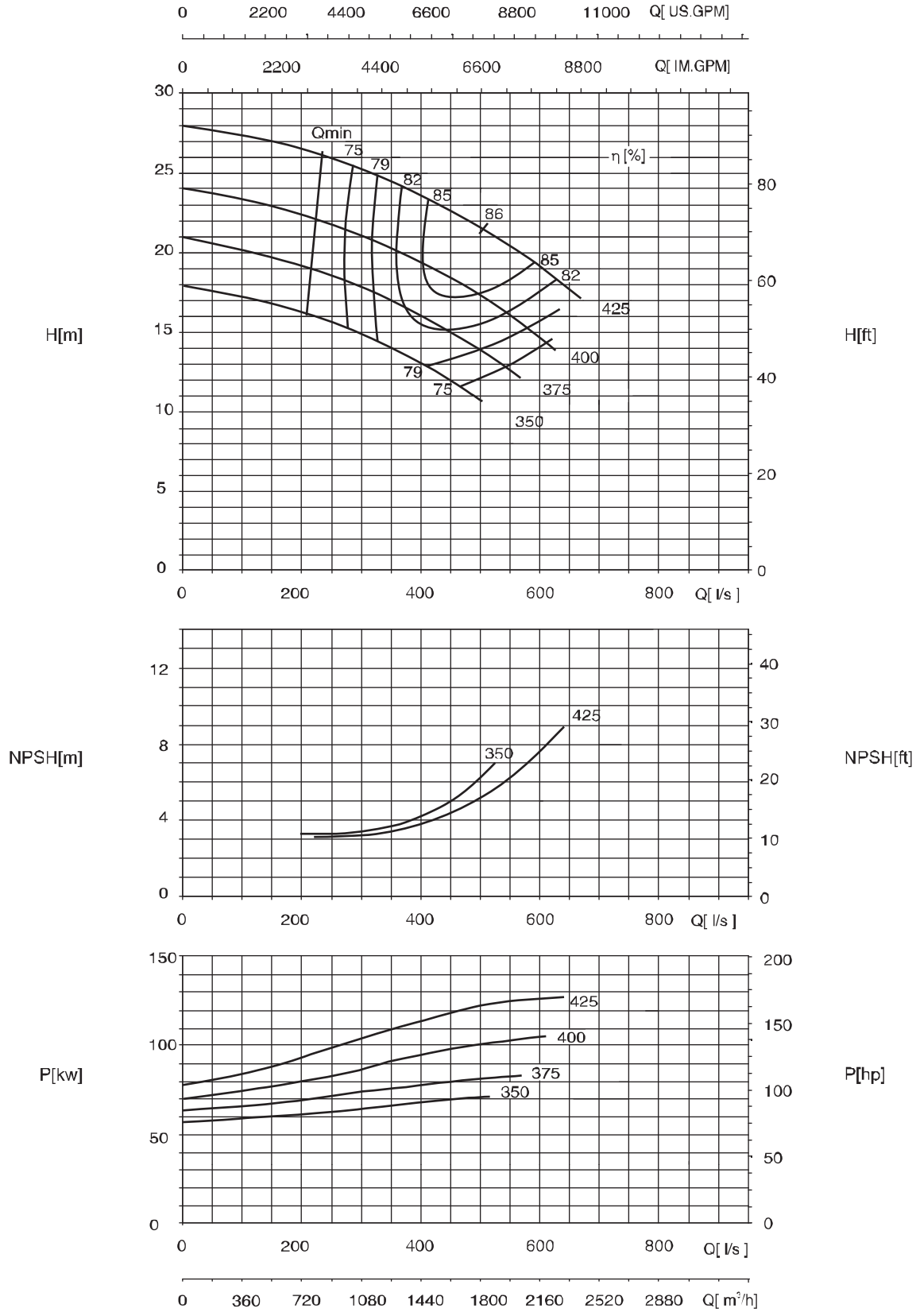
NSC 500–400–400

980 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

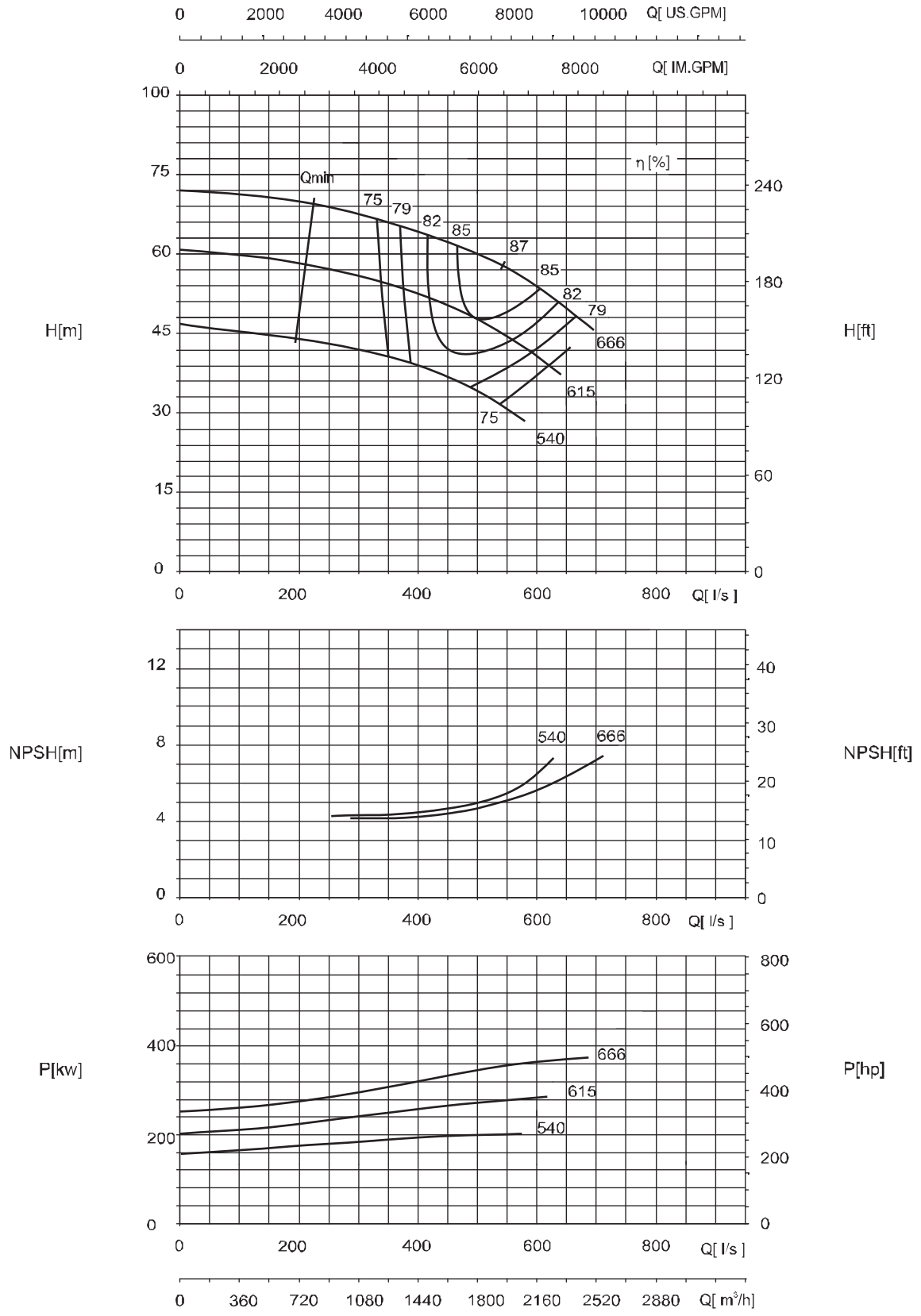
NSC 500–400–420 — 980 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 500–400–660

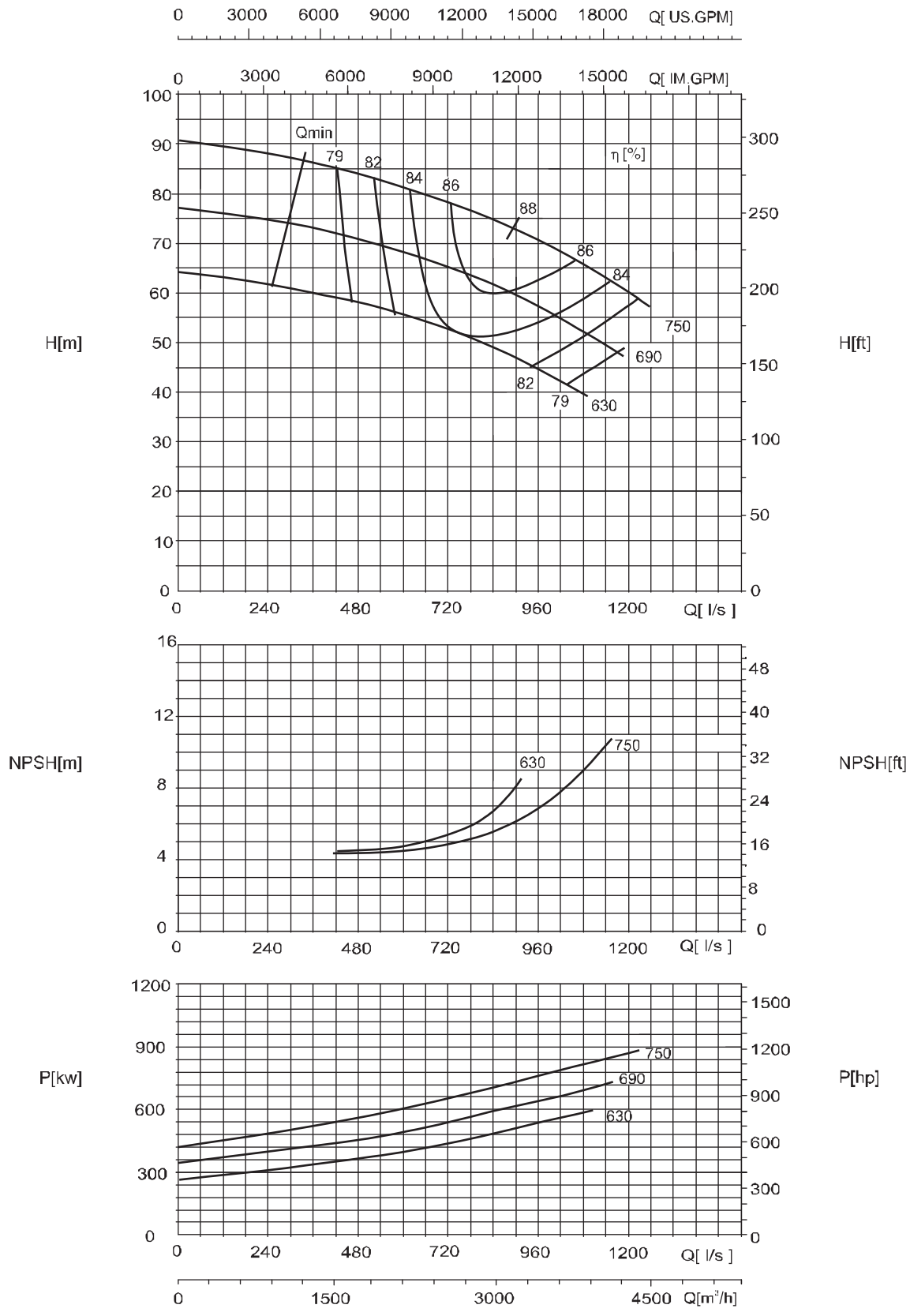
980 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 600–400–740

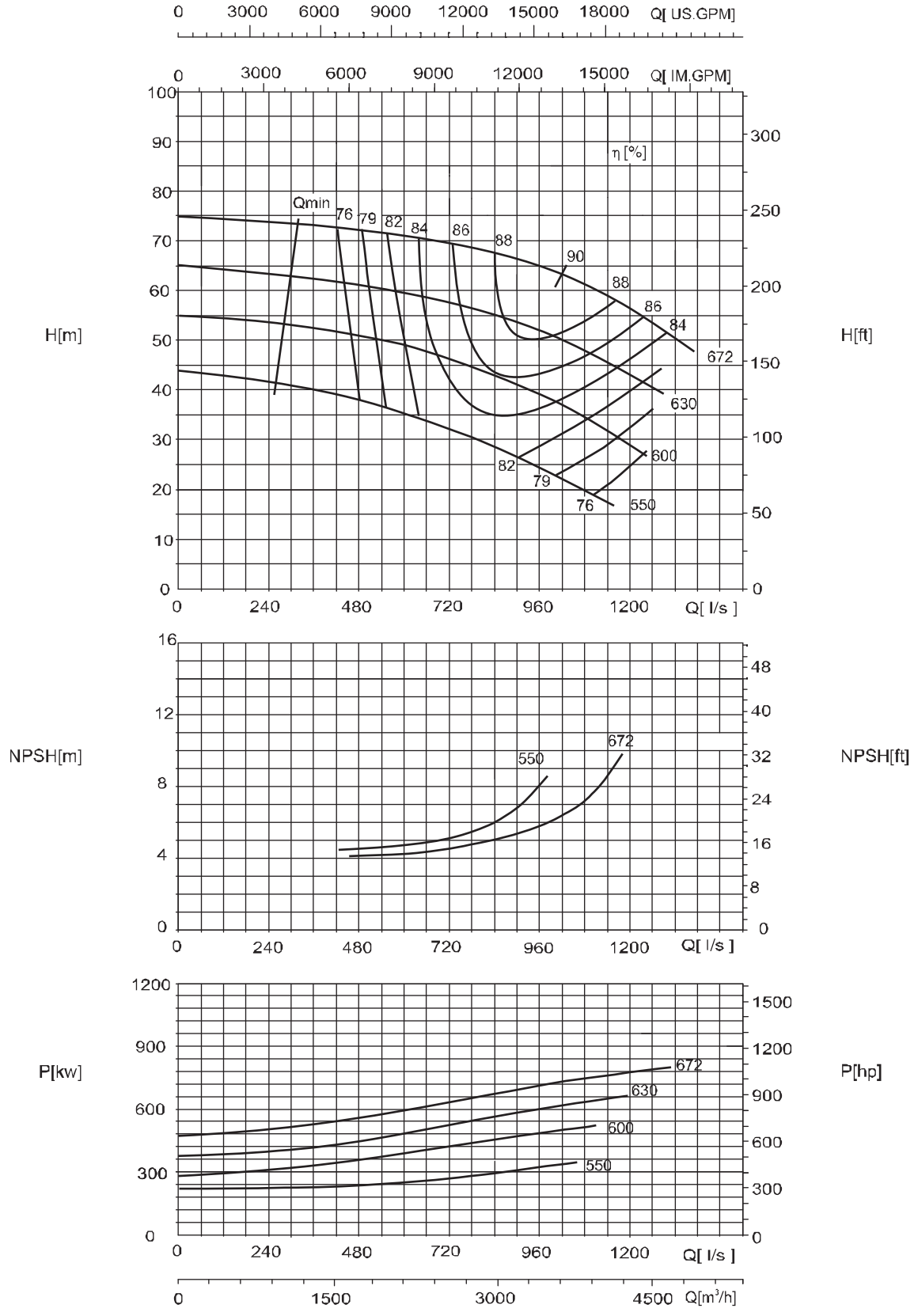
980 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 700–500–670

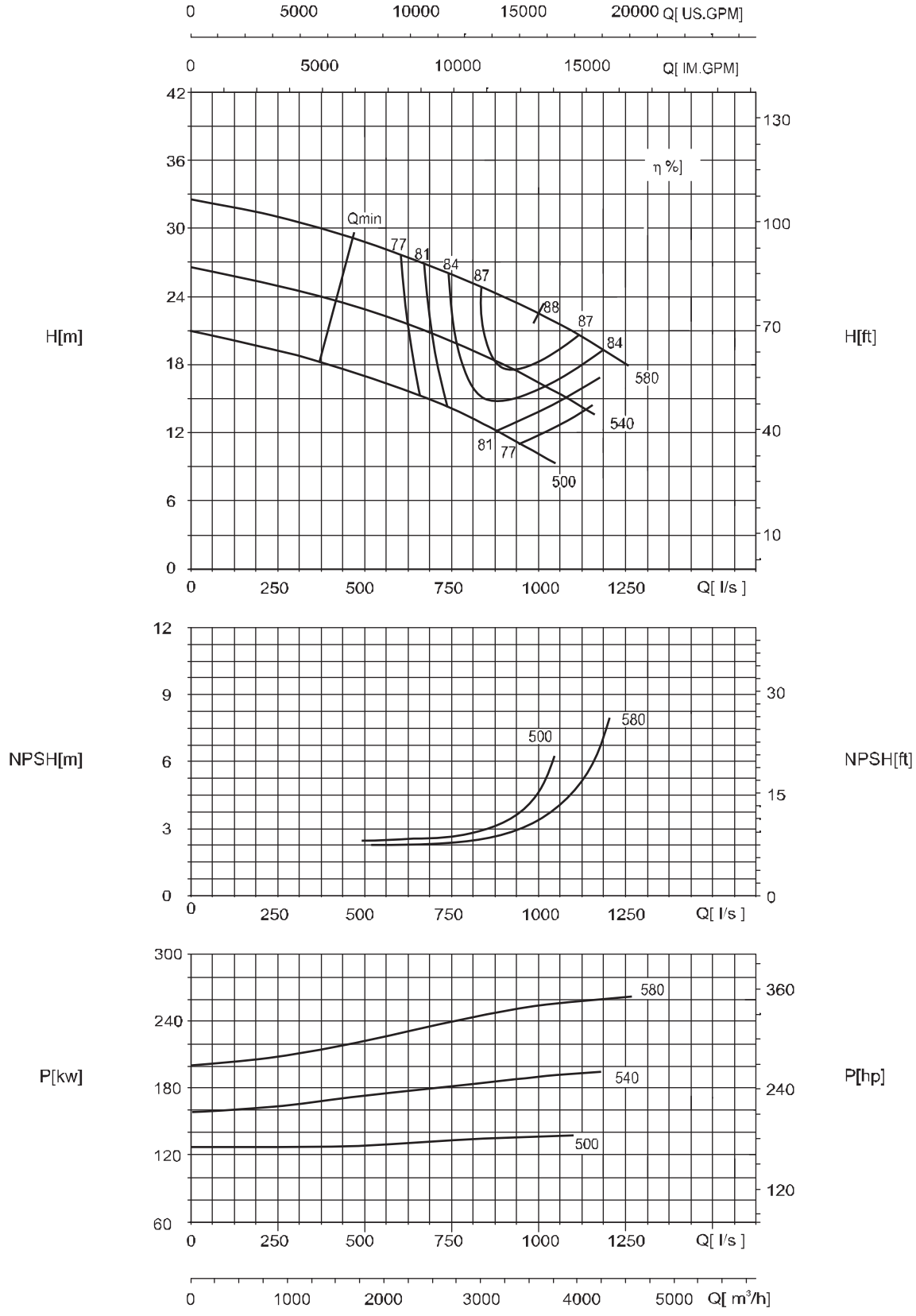
980 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 600–500–550/580

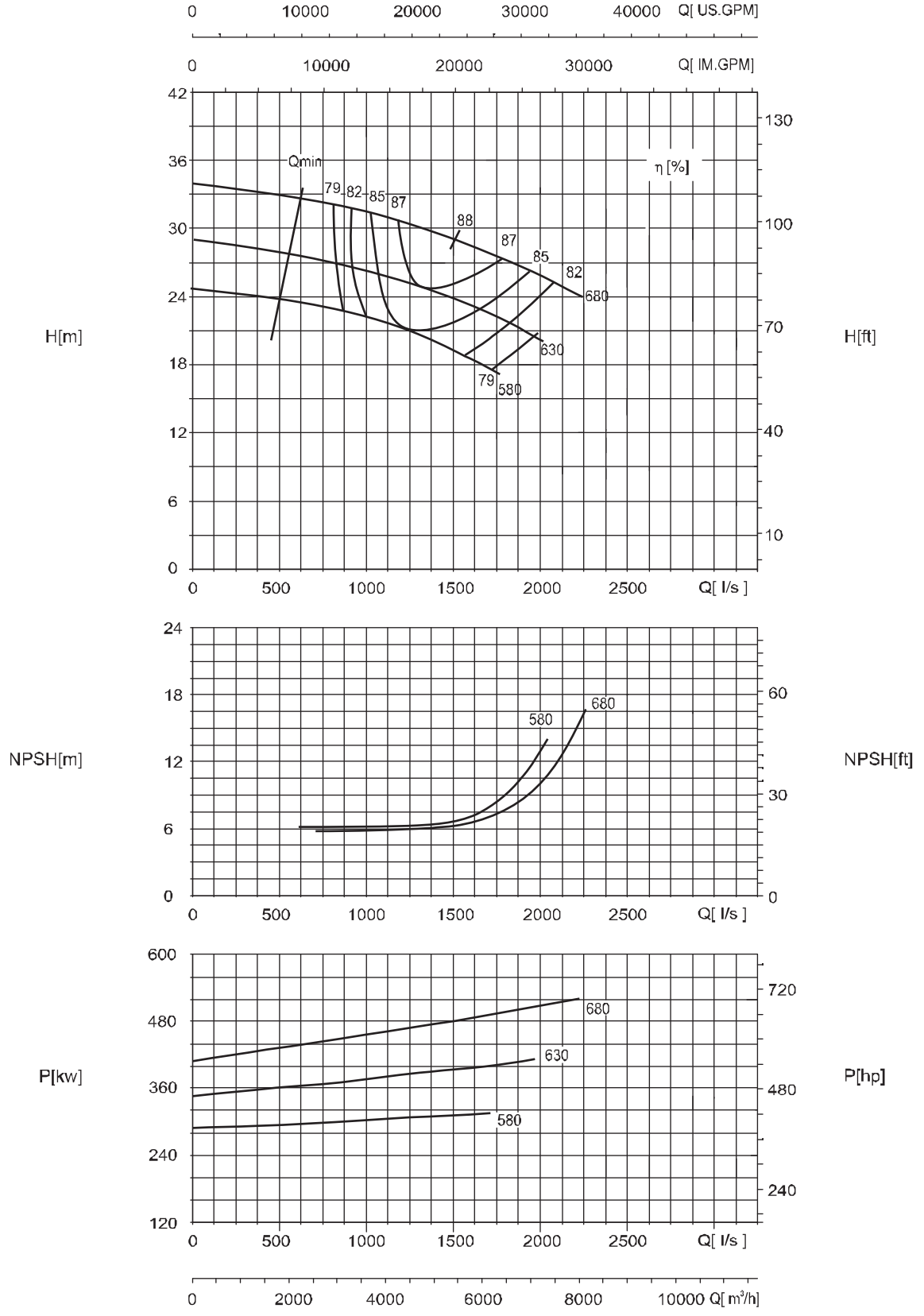
740 r/min



Head and power ratings apply to media with a density of μ=1kg/dm³ and a kinetic viscosity of 20 mm²/s .

NSC 700–600–680

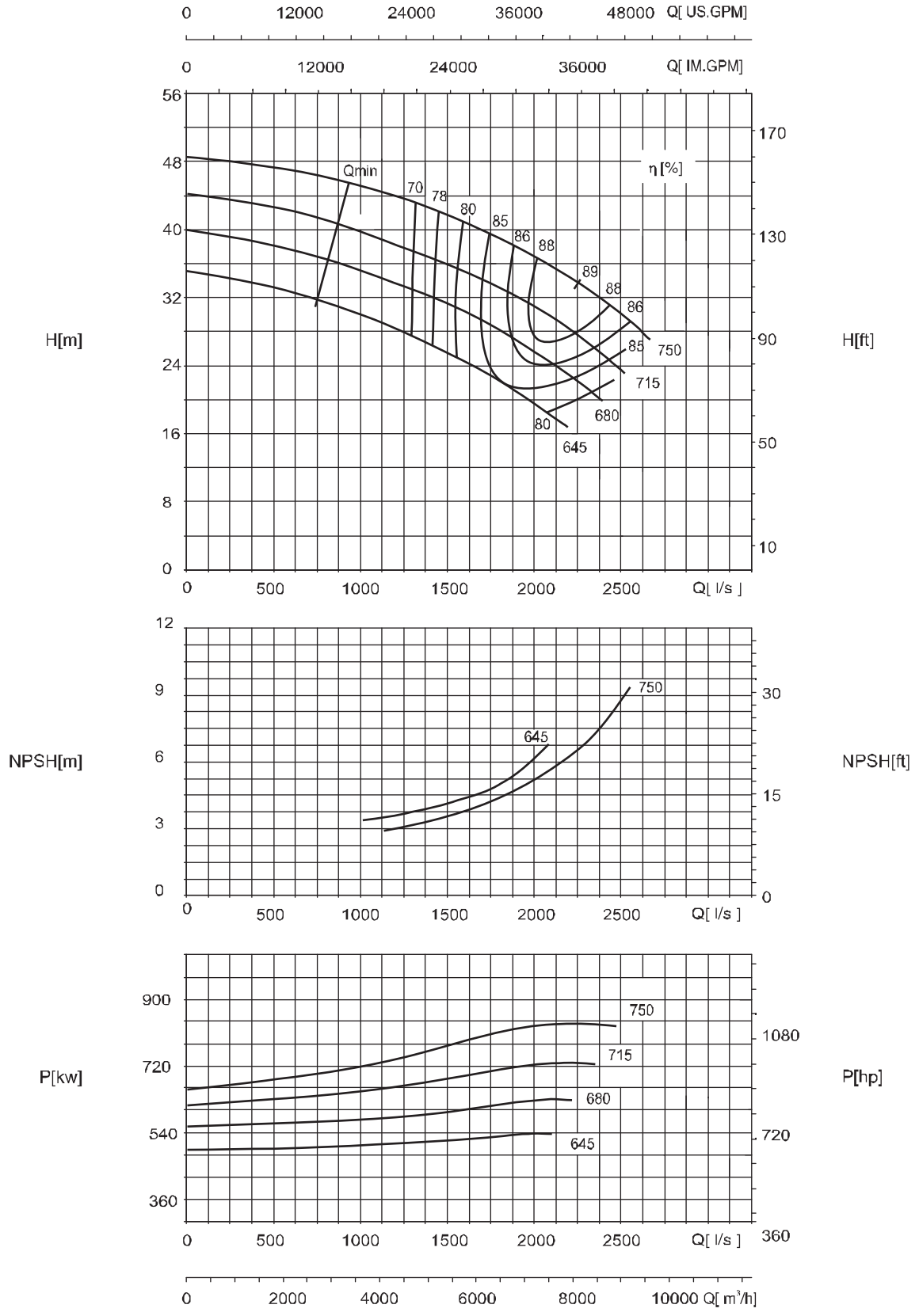
740 r/min



Head and power ratings apply to media with a density of μ=1kg/dm^3 and a kinetic viscosity of 20 mm^2/s .

NSC 800–700–750

740 r/min

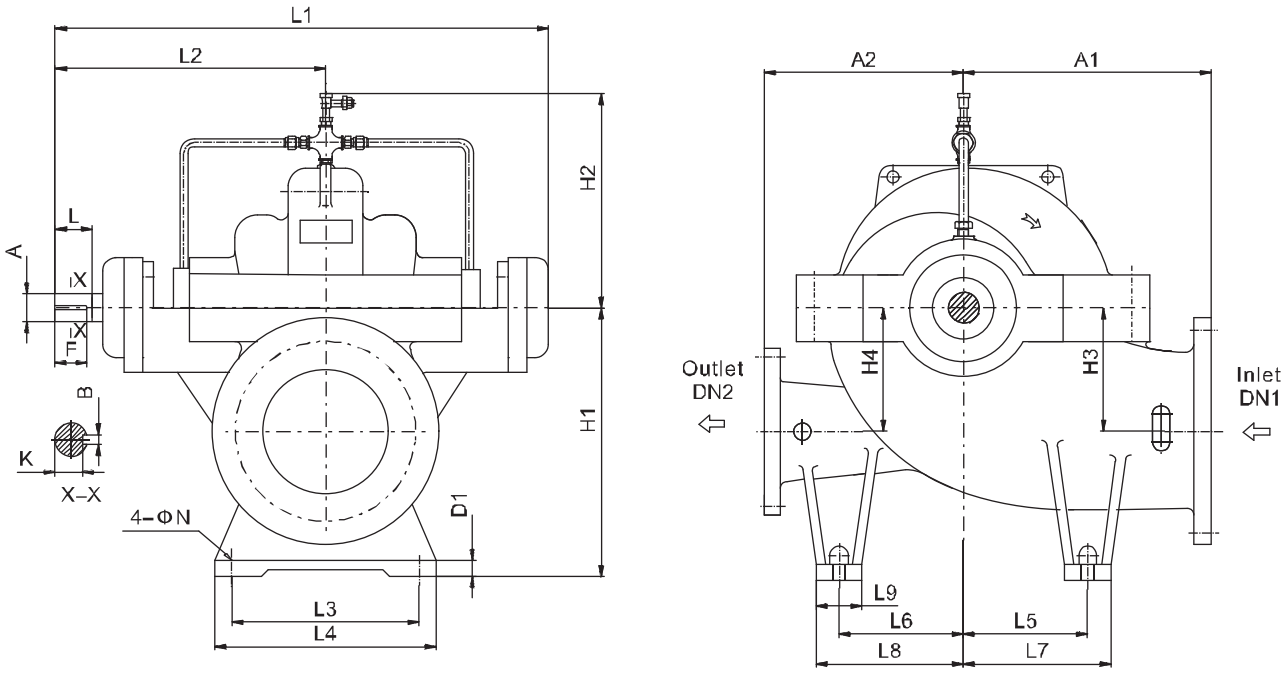


Head and power ratings apply to media with a density of μ=1kg/dm³ and a kinetic viscosity of 20 mm²/s .

Dimensions

Bare Shaft Pump Dimensions

Direction of Rotation: Clockwise



Dimensions ---Bare Shaft Pump (1/2)

Unit : mm, unless other wise stated

Model	A1	A2	H1	H2	H3	H4	L1	L2	L3	L4	L5	L6	L7	L8	L9	D1	N	A	L	B	K	F
NSC125-80-210	300	300	315	270	150	150	788.9	400.5	270	320	170	170	205	205	70	30	18	35	81.5	10	30	75
NSC125-80-270	300	300	315	269	150	150	788.9	440.5	270	320	170	170	205	205	70	30	18	35	81.5	10	30	75
NSC125-80-350	330	330	315	333	140	140	788.9	440.5	270	320	170	170	210	210	80	30	18	35	81.5	10	30	75
NSC150-100-250	330	330	355	328	170	170	788.9	440.5	270	320	200	200	240	240	80	30	18	35	81.5	10	30	75
NSC150-100-320	330	330	355	342	170	170	788.9	440.5	270	320	200	200	240	240	80	30	18	35	81.5	10	30	75
NSC150-100-400	370	370	355	260	170	170	788.9	440.5	270	320	200	200	245	245	90	30	18	35	81.5	10	30	75
NSC200-125-240	370	370	400	300	200	200	871	500	380	430	200	200	240	240	80	22	25	45	111.5	14	39.5	105
NSC200-125-300	370	370	400	325	200	200	871	500	380	430	225	225	265	265	80	22	25	45	111.5	14	39.5	105
NSC200-125-380	395	370	400	350	200	200	871	500	340	390	225	225	265	265	80	30	25	45	111.5	14	39.5	105
NSC200-125-480	450	450	400	389	200	200	871	500	340	390	260	260	320	320	80	30	25	45	111.5	14	39.5	105
NSC200-150-290	400	400	400	340	200	200	871	500	380	430	225	225	265	265	80	30	25	45	111.5	14	39.5	105
NSC200-150-360	400	400	400	380	200	200	871	500	380	430	225	225	265	265	80	30	25	45	111.5	14	39.5	105
NSC200-150-460	450	450	400	390	200	200	1006.1	569.3	430	480	280	280	320	320	80	30	25	55	112.7	16	49	100
NSC200-150-570	600	500	500	460	300	300	1006.1	569.3	430	480	350	350	400	400	100	30	25	55	112.7	16	49	100
NSC250-200-340	450	450	500	368	240	240	1006.1	569.3	430	480	280	280	320	320	80	25	25	55	112.7	16	49	100
NSC250-200-430	500	500	500	400	240	240	1006.1	569.3	430	480	280	280	325	325	90	30	25	55	112.7	16	49	100
NSC250-200-530	600	500	560	470	300	300	1110.8	637.3	430	480	350	350	400	400	100	30	25	65	143.2	18	58	135
NSC250-200-660	650	550	600	525	350	350	1110.8	637.3	440	520	350	350	400	400	100	30	25	65	143.2	18	58	135
NSC300-250-270	500	450	560	404	300	300	1006.1	569.3	430	480	300	270	345	315	80	30	25	55	112.7	16	49	100
NSC300-250-280	500	450	560	404	300	300	1006.1	569.3	430	480	300	270	345	315	80	30	25	55	112.7	16	49	100
NSC300-250-390	500	500	600	417	300	300	1110.8	637.3	430	480	350	350	400	400	100	42	25	65	143.2	18	58	135
NSC300-250-490	550	550	600	583	300	300	1316.5	737.5	520	600	350	350	400	400	100	35	25	75	143.5	20	67.5	135

Dimensions ---Bare Shaft Pump (2/2)

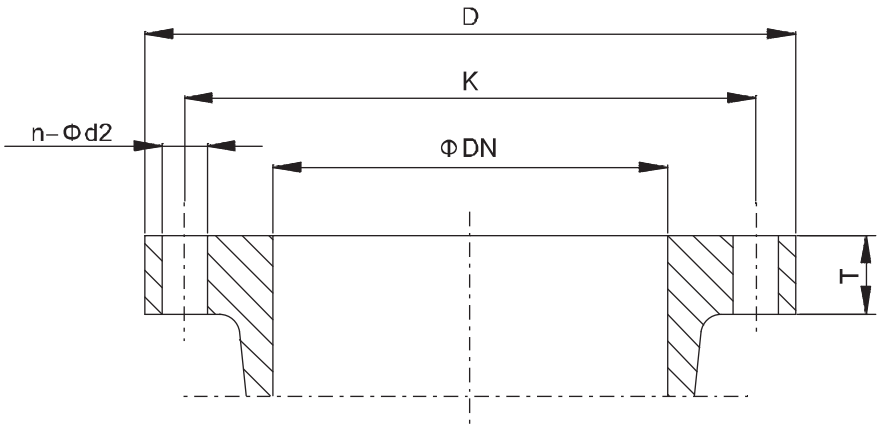
Unit : mm, unless other wise stated

Model	A1	A2	H1	H2	H3	H4	L1	L2	L3	L4	L5	L6	L7	L8	L9	D1	N	A	L	B	K	F
NSC300-250-610	650	550	630	640	350	350	1316.5	737.5	520	600	350	350	400	400	100	42	25	75	143.5	20	67.5	135
NSC300-250-780	700	600	750	680	400	400	1527	870	600	700	350	350	400	400	100	42	25	85	172.5	22	76	165
NSC350-300-310	600	520	630	465	300	300	1110.8	637.3	480	560	350	300	415	365	130	35	25	65	143.2	18	58	135
NSC350-300-330	600	520	630	465	300	300	1110.8	637.3	480	560	350	300	415	365	130	40	25	65	143.2	18	58	135
NSC400-300-450	650	550	700	590	350	350	1316.5	737.5	520	600	350	350	400	400	100	40	25	75	143.5	20	67.5	135
NSC400-300-570	700	650	710	530	350	350	1527	870	520	600	475	475	525	525	100	30	25	85	172.5	22	76	165
NSC400-300-700	700	650	750	530	400	400	1527	870	600	700	425	425	485	485	120	30	25	85	172.5	22	76	165
NSC400-350-360	670	570	670	513	350	350	1316.5	737.5	630	710	330	330	380	380	100	35	25	75	143.5	20	67.5	135
NSC400-350-380	670	570	670	513	350	350	1316.5	737.5	630	710	330	330	380	380	100	35	25	75	143.5	20	67.5	135
NSC400-350-520	700	650	750	535	400	400	1527	870	520	600	475	475	525	525	100	35	25	85	172.5	22	76	165
NSC500-400-400	765	600	785	537	420	400	1438.5	821.5	560	640	400	400	460	460	120	35	30	75	142.5	20	67.5	135
NSC500-400-420	765	600	785	537	420	400	1438.5	821.5	560	640	400	400	460	460	120	35	30	75	142.5	20	67.5	135
NSC500-400-660	850	750	850	641	450	450	1773	1009	780	940	450	450	570	570	240	40	35	100	210	28	90	180
NSC600-400-740	990	800	1000	697	530	530	1773	1009	780	940	560	460	680	580	240	40	35	100	210	28	90	180
NSC600-500-550/580	1020	740	970	737	550	525	1790	984	780	940	360	360	480	480	240	40	35	80	142	22	71	130
NSC700-500-670	1050	950	1035	725	550	550	1773	1009	780	940	625	525	750	650	250	50	42	100	210	28	90	180
NSC700-600-680	1200	950	1100	720	610	610	1985	1115	780	940	575	745	700	870	250	40	42	100	210	28	90	180
NSC800-700-750	1315	1250	1250	870	710	680	2310	1278	1000	1250	725	725	875	875	300	60	42	120	210	32	109	200

Note: If require for the dimension of pump which is not shown in the above table, pls consult CNP.

Standard Flange Dimensions

Unit : mm, unless other wise stated



Note: Other flange designs are available on request

Dimensions---Flange

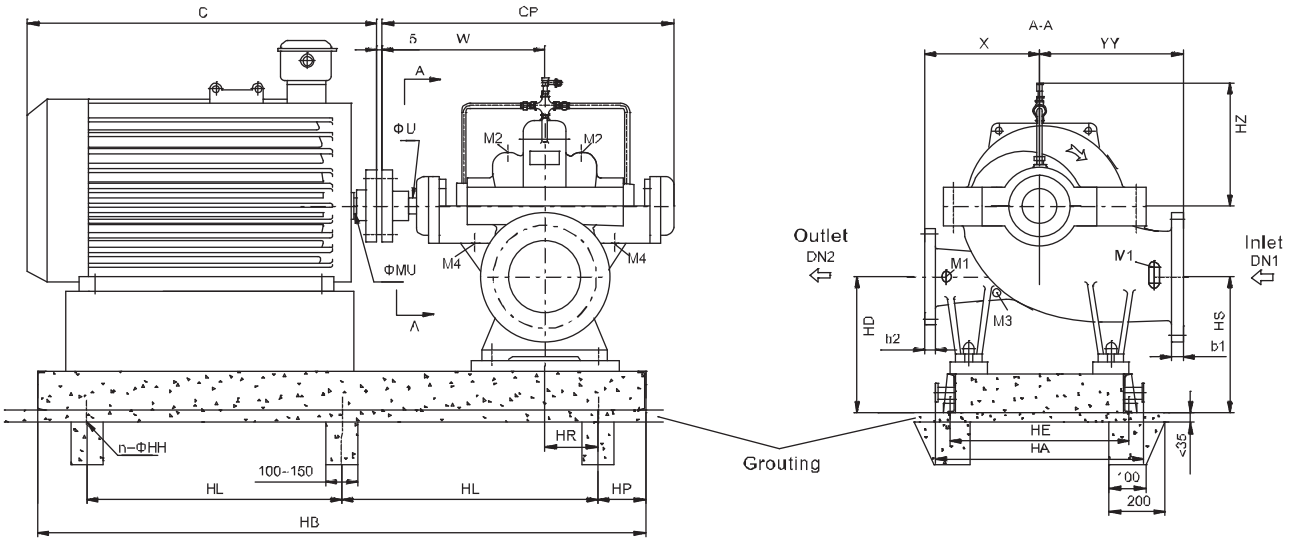
Model	ISO7025/2 DIN2501	Suction flange						Discharge flange					
		DN	D(mm)	T(mm)	K(mm)	d2(mm)	n	DN	D(mm)	T(mm)	K(mm)	d2(mm)	n
NSC125-80-210 NSC125-80-270 NSC125-80-350	PN16	125	250	26	210	19	8	80	200	22	160	19	8
NSC150-100-250 NSC150-100-320 NSC150-100-400	PN16	150	285	26	240	23	8	100	220	24	180	19	8
NSC200-125-240 NSC200-125-300 NSC200-125-380 NSC200-125-480	PN16	200	340	30	295	23	12	125	250	26	210	19	8
NSC200-150-290 NSC200-150-360 NSC200-150-460 NSC200-150-570	PN16	200	340	30	295	23	12	150	285	26	240	23	8
NSC250-200-340 NSC250-200-430 NSC250-200-530	PN16	250	405	32	355	28	12	200	340	30	295	23	12
NSC250-200-660	PN25	250	425	36	370	31	12	200	360	34	310	28	12
NSC300-250-270 NSC300-250-280 NSC300-250-390 NSC300-250-490 NSC300-250-610	PN16	300	460	32	410	28	12	250	405	32	355	28	12
NSC300-250-780	PN40	300	515	50	450	34	16	250	450	46	385	34	12
NSC350-300-310 NSC350-300-330	PN16	350	520	36	470	28	16	300	460	32	410	28	12
NSC400-300-450 NSC400-300-570	PN16	400	580	38	525	31	16	300	460	32	410	28	12
NSC400-300-700	PN25	400	620	48	550	37	16	300	485	40	430	31	16
NSC400-350-360 NSC400-350-380 NSC400-350-520	PN16	400	580	38	525	31	16	350	520	36	470	28	16
NSC500-400-400 NSC500-400-420	PN10	500	670	34	620	28	20	400	565	32	515	28	16
NSC600-500-550 NSC600-500-580	PN10	600	780	36	725	31	20	500	670	34	620	28	20
NSC600-400-740	PN16	600	840	48	770	37	20	400	580	38	525	31	16
NSC700-500-670	PN10	700	895	40	840	31	24	500	670	34	620	28	20
NSC700-600-680	PN10	700	895	40	840	31	24	600	780	36	725	31	20
NSC800-700-750	PN10	800	1015	44	950	34	24	700	895	40	840	31	24

Note: If require flange which is in accordance with BS4504, ANSI B16.1 or other standards, pls specify.
If require for the dimension of pump which is not shown in the above table, pls consult CNP.

Horizontal NSC Pump with Motor Dimensions (Standard)

Unit : mm, unless other wise stated

Direction of Rotation: Clockwise



After alignment fill baseplate with non-shrinking concrete
Position of the terminal box is in accordance with the motor standard
Connect pipes without stress

Connections

M1 : Pressure gauge G1/2 M2 : Vent G1/2 M3 : Drainage G1/2 M4 : Leakage liquid drain G3/4

Dimensions----Horizontal Arrangement (1/5)

Unit : mm, unless other wise stated

Model	Speed (rpm)	Power (kw)	Motor Size	Pump						Motor		Baseplate								Weight(kg)			
				CP	U	W	YY	X	HZ	C	MU	HB	HP	HL	HD/HS	HA	HE	n	HH	HR	Pump	Motor	Baseplate	Total
NSC125-80-210	1450	1.5	90L	788.9	35	440.5	300	300	270	340	24	910	180	300	305	620	530	6	20	10	180	27	105	312
		3	100L							380	28	960	180	300	305	620	530	6	20	10	180	33	105	318
		4	112M							400	28	960	180	300	305	620	530	6	20	10	180	45	110	335
		5.5	132S							475	38	1010	180	325	305	620	530	6	20	10	180	61	110	351
	2950	15	160M							605	42	1120	180	380	305	620	530	6	20	10	180	106	120	406
		18.5	160L							605	42	1180	180	410	305	620	530	6	20	10	180	125	125	430
		22	180M							670	48	1180	180	410	305	620	530	6	20	10	180	152	120	452
		37	200L							775	55	1250	180	445	305	620	530	6	20	10	180	245	125	550
		45	225M							815	55	1280	180	460	305	620	530	6	20	10	180	307	125	612
NSC125-80-270	1450	3	100L	788.9	35	440.5	300	300	269	380	28	960	180	300	305	620	530	6	20	10	184	33	100	317
		4	112M							400	28	960	180	300	305	620	530	6	20	10	184	45	102	331
		5.5	132S							475	38	1010	180	325	305	620	530	6	20	10	184	61	104	349
		7.5	132M							515	38	1040	180	340	305	620	530	6	20	10	184	73	108	365
		11	160M							605	42	1120	180	380	305	620	530	6	20	10	184	103	111	398
		15	160L							650	42	1180	180	410	305	620	530	6	20	10	184	130	116	430
	2950	22	180M							670	48	1180	180	410	305	620	530	6	20	10	184	152	113	449
		37	200L							775	55	1250	180	445	305	620	530	6	20	10	184	245	117	546
		45	225M							815	55	1280	180	460	305	620	530	6	20	10	184	307	115	606
		55	250M							930	60	1370	180	505	305	620	530	6	20	10	184	378	120	682
		75	280S							1000	65	1420	180	530	305	680	590	6	20	10	184	550	129	863
		90	280M							1050	65	1470	180	555	305	680	590	6	20	10	184	570	133	887

Note: Dimensions and weight deviations subject to selected motor manufacturer are to be considered.

Horizontal Arrangement Dimensions (2/5)

Unit : mm, unless other wise stated

Model	Speed (rpm)	Power (kw)	Motor Size	Pump						Motor		Baseplate									Weight(kg)			
				CP	U	W	YY	X	HZ	C	MU	HB	HP	HL	HD/HS	HA	HE	n	HH	HR	Pump	Motor	Baseplate	Total
NSC125-80-350	1450	5.5	132S	788.9	35	440.5	330	330	333	475	38	1010	180	325	315	620	530	6	20	10	206	61	106	373
		7.5	132M							515	38	1040	180	340	315	620	530	6	20	10	206	73	109	388
		11	160M							605	42	1120	180	380	315	620	530	6	20	10	206	103	112	421
		15	160L							650	42	1180	180	410	315	620	530	6	20	10	206	130	117	453
		18.5	180M							670	48	1180	180	410	315	620	530	6	20	10	206	165	114	485
		22	180L							710	48	1210	180	425	315	620	530	6	20	10	206	180	117	503
NSC150-100-250	1450	3	100L	788.9	35	440.5	330	330	328	380	28	960	180	300	325	680	590	6	20	10	218	33	106	357
		4	112M							400	28	960	180	300	325	680	590	6	20	10	218	45	108	371
		5.5	132S							475	38	1010	180	325	325	680	590	6	20	10	218	61	111	390
		7.5	132M							515	38	1040	180	340	325	680	590	6	20	10	218	73	115	406
		11	160M							605	42	1120	180	380	325	680	590	6	20	10	218	103	120	441
		15	160L							650	42	1180	180	410	325	680	590	6	20	10	218	130	125	473
	2950	22	180M							670	48	1180	180	410	325	680	590	6	20	10	218	152	122	492
		37	200L							775	55	1250	180	445	325	680	590	6	20	10	218	245	127	590
		45	225M							815	55	1280	180	460	325	680	590	6	20	10	218	307	126	651
		55	250M							930	60	1370	180	505	325	680	590	6	20	10	218	378	132	728
		75	280S							1000	65	1420	180	530	325	680	590	6	20	10	218	550	131	899
		90	280M							1050	65	1470	180	555	325	680	590	6	20	10	218	570	136	924
		110	315S							1240	65	1510	180	575	325	780	690	6	20	10	218	740	156	1114
NSC150-100-320	1450	7.5	132M	788.9	35	440.5	330	330	342	515	38	1040	180	340	325	680	590	6	20	10	230	73	115	418
		11	160M							605	42	1120	180	380	325	680	590	6	20	10	230	103	120	453
		15	160L							650	42	1180	180	410	325	680	590	6	20	10	230	130	125	485
		18.5	180M							670	48	1180	180	410	325	680	590	6	20	10	230	165	122	517
		22	180L							710	48	1210	180	425	325	680	590	6	20	10	230	180	126	536
		30	200L							775	55	1250	180	445	325	680	590	6	20	10	230	238	127	595
	2950	55	250M							930	60	1370	180	505	325	680	590	6	20	10	230	378	132	740
		75	280S							1000	65	1420	180	530	325	680	590	6	20	10	230	550	131	911
		90	280M							1050	65	1470	180	555	325	680	590	6	20	10	230	570	136	936
		110	315S							1240	65	1510	180	475	325	780	690	6	20	10	230	740	155	1125
		132	315M							1310	65	1590	180	615	325	780	690	6	20	10	230	855	166	1251
		200	315L							1310	65	1620	180	630	325	780	690	6	20	10	230	970	166	1366
NSC150-100-400	1450	11	160M	788.9	35	440.5	370	370	260	605	42	1120	180	380	325	680	590	6	20	10	238	103	121	462
		15	160L							650	42	1180	180	410	325	680	590	6	20	10	238	130	126	494
		18.5	180M							670	48	1180	180	410	325	680	590	6	20	10	238	165	123	526
		195	180L							710	48	1210	180	425	325	680	590	6	20	10	238	180	127	545
		30	200L							775	55	1250	180	445	325	680	590	6	20	10	238	238	128	604
		37	225S							820	60	1280	180	460	325	680	590	6	20	10	238	298	125	661
		45	225M							845	60	1310	180	475	325	680	590	6	20	10	238	322	127	687
		55	250M							930	65	1370	180	505	325	680	590	6	20	10	238	410	133	781
NSC200-125-240	1450	5.5	132S	871	45	500	370	370	300	475	38	1120	190	370	365	620	520	6	20	55	294	61	128	483
		7.5	132M							515	38	1160	190	390	365	620	520	6	20	55	294	73	132	499
		11	160M							605	42	1240	190	430	365	620	520	6	20	55	294	103	138	535
		15	160L							650	42	1290	190	405	365	620	520	6	20	55	294	130	144	568
		18.5	180M							670	48	1290	190	405	365	620	520	6	20	55	294	165	141	600
		22	180L							710	48	1340	190	480	365	620	520	6	20	55	294	180	146	620
	2950	45	225M							815	55	1400	190	510	365	680	580	6	20	55	294	307	149	750
		55	250M							930	60	1480	190	550	365	680	580	6	20	55	294	378	156	828
		75	280S							1000	65	1540	190	580	365	680	580	6	20	55	294	550	163	1007
		90	280M							1050	65	1590	190	605	365	680	580	6	20	55	294	570	169	1033
		110	315S							1240	65	1630	190	625	365	680	580	6	20	55	294	740	185	1219
		132	315M							1310	65	1710	190	665	365	680	580	6	20	55	294	855	197	1346
NSC200-125-300	1450	7.5	132M	871	45	500	370	370	325	515	38	1160	190	390	365	680	580	6	20	55	312	73	135	520
		11	160M							605	42	1240	190	430	365	680	580	6	20	55	312	103	142	557
		15	160L							650	42	1290	190	405	365	680	580	6	20	55	312	130	147	589
		18.5	180M							670	48	1290	190	405	365	680	580	6	20	55	312	165	145	622
		22	180L							710	48	1340	190	480	365	680	580	6	20	55	312	180	150	642
		30	200L							775	55	1360	190	490	365	680	580	6	20	55	312	238	150	700
		37	225S							820	60	1400	190	510	365	680	580	6	20	55	312	298	147	757
	2950	55	250M							930	60	1480	190	550	365	680	580	6	20	55	312	378	163	853
		75	280S							1000	65	1540	190	580	365	680	580	6	20	55	312	550	163	1025
		90	280M							1050	65	1590	190	605	365	680	580	6	20	55	312	570	169	1051
		110	315S							1240	65	1630	190	625	365	680	580	6	20	55	312	740	185	1237
		132	315M							1310	65	1710	190	665	365	680	580	6	20	55	312	855	197	1364
		200	315L							1310	65	1730	190	675	365	680	580	6	20	55	312	1080	197	1589

Note: Dimensions and weight deviations subject to selected motor manufacturer are to be considered.

Horizontal Arrangement Dimensions (3/5)

Unit : mm, unless other wise stated

Model	Speed (rpm)	Power (kw)	Motor Size	Pump						Motor		Baseplate									Weight(kg)			
				CP	U	W	YY	X	HZ	C	MU	HB	HP	HL	HD	HS	HA	HE	n	HH	HR	Pump	Motor	Baseplate	Total
NSC200-125-380	1450	15	160l	871	45	500	395	370	350	650	42	1270	190	445	365		680	580	6	20	35	350	130	152	632
		18.5	180M							670	48	1270	190	445	365		680	580	6	20	35	350	165	149	664
		22	180L							710	48	1310	190	465	365		680	580	6	20	35	350	180	154	684
		30	200L							775	55	1340	190	480	365		680	580	6	20	35	350	238	155	743
		37	225S							820	60	1380	190	500	365		680	580	6	20	35	350	298	152	800
		45	225M							845	60	1400	190	510	365		680	580	6	20	35	350	322	154	826
		55	250M							930	65	1460	190	540	365		680	580	6	20	35	350	410	162	922
		75	280S							1000	75	1520	190	570	365		680	580	6	20	35	350	555	169	1074
NSC200-125-480	1150	30	200L	871	45	500	450	450	389	775	55	1340	190	480	365		780	680	6	20	35	390	238	161	789
		37	225S							820	60	1380	190	500	365		780	680	6	20	35	390	298	158	846
		45	225M							845	60	1400	190	510	365		780	680	6	20	35	390	322	160	872
		55	250M							930	65	1460	190	540	365		780	680	6	20	35	390	410	168	968
		75	280S							1000	75	1520	190	570	365		780	680	6	20	35	390	555	176	1121
		90	280M							1050	75	1570	190	595	365		780	680	6	20	35	390	610	182	1182
		110	315S							1270	80	1630	190	625	365		780	680	6	20	35	390	750	192	1332
		132	315M							1340	80	1710	190	665	365		780	680	6	20	35	390	875	204	1469
NSC200-150-290	1450	11	160M	871	45	500	400	400	340	605	42	1250	100	525	370		670	540	6	20	145	330	103	150	583
		15	160l							650	42	1300	100	550	370		670	540	6	20	145	330	130	150	610
		18.5	180M							670	48	1300	100	550	370		670	540	6	20	145	330	165	160	655
		22	180L							710	48	1350	100	575	370		670	540	6	20	145	330	180	160	670
		30	200L							775	55	1380	100	590	370		670	540	6	20	145	330	238	170	738
		37	225S							820	60	1400	100	600	370		670	540	6	20	145	330	298	170	798
		45	225M							930	60	1450	100	625	370		670	540	6	20	145	330	322	170	822
NSC230-150-360	1450	18.5	180M	871	45	500	400	400	380	670	48	1300	100	550	370		670	540	6	20	145	350	165	160	675
		22	180L							710	48	1350	100	575	370		670	540	6	20	145	350	180	160	690
		30	200L							775	55	1380	100	590	370		670	540	6	20	145	350	238	170	758
		37	225S							820	60	1400	100	600	370		670	540	6	20	145	350	298	170	818
		45	225M							930	60	1450	100	625	370		670	540	6	20	145	350	322	170	842
		55	250M							930	65	1500	100	650	370		670	540	6	20	145	350	410	175	935
		75	280S							1000	75	1580	100	690	370		670	540	6	20	145	350	555	185	1090
NSC200-150-460	1450	30	200L	1006.1	55	569.3	450	450	390	775	55	1500	100	650	390		770	650	6	25	175	460	238	220	918
		37	225S							820	60	1540	100	670	390		770	650	6	25	175	460	298	230	988
		45	225M							930	60	1540	100	670	390		770	650	6	25	175	460	322	230	1012
		55	250M							930	65	1600	100	700	390		770	650	6	25	175	460	410	235	1105
		75	280S							1000	75	1700	100	750	390		770	650	6	25	175	460	555	250	1265
		90	280M							1050	75	1750	100	775	390		770	650	6	25	175	460	610	255	1325
		110	315S							1270	80	1800	100	800	390		770	650	6	25	175	460	750	280	1490
		132	315M							1340	80	1850	100	825	390		770	650	6	25	175	460	875	280	1615
		200	315L							1340	80	1900	100	850	390		770	650	6	25	175	460	960	280	1700
NSC200-150-570	1450	55	250M	1006.1	55	569.3	600	500	460	930	65	1600	100	700	390		970	800	6	25	175	668	410	260	1338
		75	280S							1000	75	1700	100	750	390		970	800	6	25	175	668	555	285	1508
		90	280M							1050	75	1750	100	775	390		970	800	6	25	175	668	610	285	1563
		110	315S							1270	80	1800	100	800	390		970	800	6	25	175	668	750	300	1718
		132	315M							1340	80	1850	100	825	390		970	800	6	25	175	668	875	320	1863
		200	315L							1340	80	1900	100	850	390		970	800	6	25	175	668	960	340	1968
		280	355(6KV)							1690	100	2630	100	810	390		970	800	8	25	175	668	1730	480	2878
NSC250-200-340	1150	30	200L	1006.1	55	569.3	450	450	368	775	55	1450	120	620	450		860	750	6	25	150	478	238	260	976
		37	225S							820	60	1500	120	630	450		860	750	6	25	150	478	298	260	1036
		45	225M							845	60	1550	120	650	450		860	750	6	25	150	478	322	260	1060
		55	250M							930	65	1600	120	680	450		860	750	6	25	150	478	410	280	1168
		75	280S							1000	75	1650	120	700	450		860	750	6	25	150	478	555	280	1313
		90	280M							1050	75	1700	120	720	450		860	750	6	25	150	478	610	280	1368
NSC250-200-430	1450	37	225S	1006.1	55	569.3	500	500	400	820	60	1500	120	630	450		860	750	6	25	150	560	298	260	1118
		45	225M							845	60	1550	120	650	450		860	750	6	25	150	560	322	260	1142
		55	250M							930	65	1600	120	680	450		860	750	6	25	150	560	410	280	1250
		75	280S							1000	75	1650	120	700	450		860	750	6	25	150	560	555	280	1395
		90	280M							1050	75	1700	120	720	450		860	750	6	25	150	560	610	280	1450
		110	315S							1340	80	1760	120	750	450		860	750	6	25	150	560	750	310	1620
		132	315M							1340	80	1830	120	780	450		860	750	6	25	150	560	875	310	1745
		200	315L							1340	80	1850	120	800	450		860	750	6	25	150	560	960	310	1830

Note: Dimensions and weight deviations subject to selected motor manufacturer are to be considered.

Horizontal Arrangement Dimensions (4/5)

Unit : mm, unless other wise stated

Model	Speed (rpm)	Power (kw)	Motor Size	Pump						Motor		Baseplate									Weight(kg)			
				CP	U	W	YY	X	HZ	C	MU	HB	HP	HL	HD/HS	HA	HE	n	HH	HR	Pump	Motor	Baseplate	Total
NSC250-200-330	1450	75	280S	1110.8	65	637.3	600	500	470	1000	75	1800	130	770	400	1010	860	6	25	160	710	555	280	1545
		90	280M							1050	75	1850	130	800	400	1010	860	6	25	160	710	610	280	1600
		110	315S							1340	80	1900	130	830	400	1010	860	6	25	160	710	750	350	1810
		132	315M							1340	80	1950	130	850	400	1010	860	6	25	160	710	875	350	1935
		200	315L							1340	80	2000	130	880	400	1010	860	6	25	160	710	960	350	2020
		315	355(6KV)							1690	100	2620	130	800	400	1010	860	8	25	160	710	1730	540	2980
		355	400(6KV)							1860	110	2800	130	820	400	1010	860	8	25	160	710	2050	610	3370
NSC250-200-360	1450	110	315S	1110.8	65	637.3	650	550	525	1340	80	1850	130	800	440	1010	860	6	25	160	994	750	360	2104
		132	315M							1340	80	1900	130	830	440	1010	860	6	25	160	994	875	360	2229
		200	315L							1340	80	1950	130	850	440	1010	860	6	25	160	994	960	360	2314
		315	355(6KV)							1690	100	2620	130	800	440	1010	860	8	25	160	994	1730	560	3284
		355	400(6KV)							1860	110	2800	130	850	440	1010	860	8	25	160	994	2050	610	3654
NSC300-250-280	1450	30	200L	1006.1	55	569.3	500	450	404	775	55	1450	120	600	450	860	750	6	25	150	650	238	270	1158
		37	225S							820	60	1500	120	630	450	860	750	6	25	150	650	298	280	1228
		45	225M							845	60	1550	120	650	450	860	750	6	25	150	650	322	280	1252
		55	250M							930	65	1600	120	680	450	860	750	6	25	150	650	410	280	1340
		75	280S							1000	75	1650	120	700	450	860	750	6	25	150	650	555	280	1485
NSC300-250-390	1450	75	280S	1110.8	65	637.3	500	500	417	1000	75	1700	120	720	480	1010	860	6	25	150	668	555	340	1563
		90	280M							1050	75	1750	120	750	480	1010	860	6	25	150	668	610	340	1618
		110	315S							1340	80	1850	120	800	480	1010	860	6	25	150	668	750	360	1778
		132	315M							1340	80	1900	120	830	480	1010	860	6	25	150	668	875	360	1903
		200	315L							1340	80	1950	120	850	480	1010	860	6	25	150	668	960	360	1988
NSC300-250-490	1450	90	280M	1316.5	75	736.5	550	550	583	1050	75	1950	150	800	510	1010	860	6	25	180	950	610	420	1980
		110	315S							1340	80	2000	150	850	510	1010	860	6	25	180	950	750	420	2120
		132	315M							1340	80	2050	150	600	510	1010	860	8	25	180	950	875	450	2275
		200	315L							1340	80	2100	150	610	510	1010	860	8	25	180	950	960	450	2360
		315	355(6KV)							1690	100	2800	150	850	510	1010	860	8	25	180	950	1730	620	3300
		355	400(6KV)							1860	110	2850	150	860	510	1010	860	8	25	180	950	2050	720	3720
NSC300-250-610	1450	132	315M	1316.5	75	736.5	650	550	640	1340	80	2050	150	600	490	1060	910	8	25	180	1126	875	440	2441
		200	315L							1340	80	2100	150	610	490	1060	910	8	25	180	1126	960	440	2526
		315	355(6KV)							1690	100	2800	150	620	490	1060	910	8	25	180	1126	1730	640	3496
		560	400(6KV)							1860	110	2950	150	840	490	1060	910	8	25	180	1126	2430	740	4296
		630	450(6KV)							1900	120	3000	150	880	490	1060	910	8	25	180	1126	3030	740	4896
NSC300-250-780	1450	560	400(6KV)	1527	85	870	700	600	680	1860	110	3150	180	930	580	1200	1080	8	30	200	1350	2430	920	4700
		710	450(6KV)							1900	120	3200	180	950	580	1200	1080	8	30	200	1350	2170	950	4470
		800	450(6KV)							1900	120	3200	180	950	580	1200	1080	8	30	200	1350	2280	1050	4680
		1000	500(6KV)							1900	120	3560	180	1070	580	1200	1080	8	30	200	1350	3960	1150	6460
NSC300-250-270	1450	30	200L	1006.1	55	569.3	500	500	300	775	55	1450	120	600	485	860	750	6	25	150	650	238	270	1158
		45	225M							845	60	1550	120	650	485	860	750	6	25	150	650	322	280	1252
		55	250M							930	65	1600	120	680	485	860	750	6	25	150	650	410	280	1340
NSC350-300-330	1450	55	250M	1110.8	65	637.3	600	520	465	930	65	1700	140	730	520	1010	860	6	25	170	800	410	350	1560
		75	280S							1000	75	1750	140	750	520	1010	860	6	25	170	800	555	350	1705
		90	280M							1050	75	1800	140	750	520	1010	860	6	25	170	800	610	350	1760
		110	315S							1340	80	1850	140	800	520	1010	860	6	25	170	800	750	370	1920
		132	315M							1340	80	1950	140	850	520	1010	860	6	25	170	800	875	370	2045
NSC350-350-310	1450	55	250M	1110.8	65	637.3	600	520	465	930	65	1700	140	730	520	1010	860	6	25	170	800	410	350	1560
		75	280S							1000	75	1750	140	750	520	1010	860	6	25	170	800	555	350	1705
		90	280M							1050	75	1800	140	750	520	1010	860	6	25	170	800	610	350	1760
		110	315S							1340	80	1850	140	800	520	1010	860	6	25	170	800	750	370	1920
		132	315M							1340	80	1950	140	850	520	1010	860	6	25	170	800	875	370	2045
NSC400-300-450	1450	90	280M	1316.5	75	736.5	650	550	590	1050	75	1900	150	810	560	1010	860	6	25	180	1000	610	450	2060
		110	315S							1340	80	1950	150	830	560	1010	860	6	25	180	1000	750	450	2200
		132	315M							1340	80	2050	150	600	560	1010	860	8	25	180	1000	875	510	2385
		200	315L							1340	80	2100	150	610	560	1010	860	8	25	180	1000	960	510	2470
		315	355(6KV)							1690	100	2750	150	840	560	1010	860	8	25	180	1000	1730	690	3420
		500	400(6KV)							1860	110	3000	150	910	560	1010	860	8	25	180	1000	2340	780	4120

Note: Dimensions and weight deviations subject to selected motor manufacturer are to be considered.

Horizontal Arrangement Dimensions (5/5)

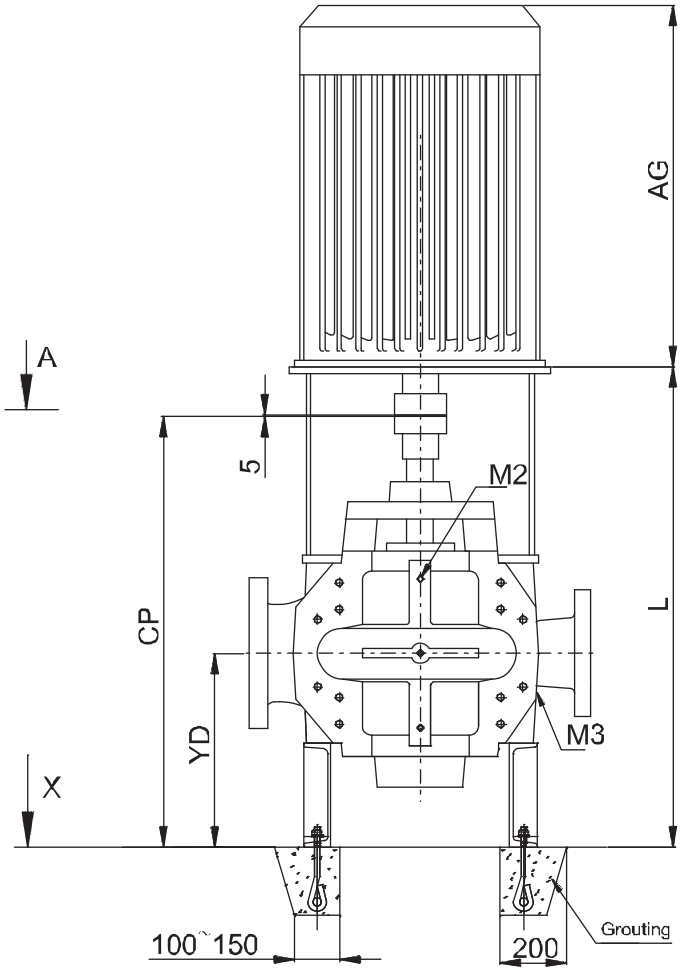
Unit : mm, unless other wise stated

Model	Speed (rpm)	Power (kw)	Motor Size	Pump						Motor		Baseplate									Weight(kg)			
				CP	U	W	YY	X	HZ	C	MU	HB	HP	HL	HD/HS	HA	HE	n	HH	HR	Pump	Motor	Baseplate	Total
NSC400-300-570	1450	200	315L	1527	85	870	700	650	530	1340	80	2250	150	650	590	1200	1080	8	30	180	1480	960	500	2940
		315	355(6KV)							1690	100	2900	150	870	590	1200	1080	8	30	180	1480	1730	790	4000
		560	400(6KV)							1860	110	3060	150	920	590	1200	1080	8	30	180	1480	2430	880	4790
		630	450(6KV)							1900	120	3160	150	950	590	1200	1080	8	30	180	1480	3030	880	5390
NSC400-300-700	1450	315	355(6KV)	1527	85	870	700	650	530	1690	100	3000	180	900	580	1200	1080	8	30	200	1650	1730	810	4190
		560	400(6KV)							1860	110	3110	180	920	580	1200	1080	8	30	200	1650	2430	920	5000
		900	450(6KV)							1900	120	3180	180	950	580	1200	1080	8	30	200	1650	3460	950	6060
		1000	500(6KV)							2220	130	1560	180	1070	580	1200	1080	8	30	200	1650	3960	1050	6660
NSC400-350-360	1450	160	315L	1316.5	75	736.5	670	570	513	1340	80	2100	180	590	530	1010	860	8	25	200	880	960	690	2530
		160	315L							1340	80	2100	180	590	530	1010	860	8	25	200	880	960	690	2530
		110	315S							1340	80	2000	180	870	530	1010	860	6	25	200	880	750	430	2060
NSC400-350-380	1450	90	280M	1316.5	75	736.5	670	570	513	1050	75	1900	180	800	530	1010	860	6	25	200	880	610	350	1840
		110	315S							1340	80	2000	180	870	530	1010	860	6	25	200	880	750	430	2060
		132	315M							1340	80	2050	180	580	530	1010	860	8	25	200	880	875	460	2215
		200	315L							1340	80	2100	180	590	530	1010	860	8	25	200	880	1080	690	2650
		315	355(6KV)							1690	100	2750	180	820	530	1010	860	8	25	200	880	1730	660	3270
NSC400-350-520	1450	315	355(6KV)	1527	85	870	700	650	535	1690	100	3000	150	900	580	1200	1080	8	30	180	1350	1730	800	3880
		560	400(6KV)							1860	110	3060	150	920	580	1200	1080	8	30	180	1350	2430	900	4680
		800	450(6KV)							1900	120	3160	150	950	580	1200	1080	8	30	180	1350	3230	900	5480
NSC400-350-520	980	315	Y4005-6	1527	85	870	700	650	535	1860	110	3060	150	920	580	1200	1080	8	30	180	1350	2130	900	4380
		250	Y355L-6							1690	100	3000	150	900	580	1200	1080	8	30	180	1350	1800	900	4050
		200	Y355M-6							1690	100	3000	150	900	580	1200	1080	8	30	180	1350	1700	900	3950
		160	Y355M-6							1690	100	3000	150	900	580	1200	1080	8	30	180	1350	1600	900	3850
NSC500-400-400	980	110	Y315L-6	1438.5	75	821.5	765	600	537	1340	80	2220	180	620	600/580	1080	960	8	25	170	1200	1150	600	2950
		90	Y315M-6							1340	80	2220	180	620	600/580	1080	960	8	25	170	1200	1080	600	2880
		75	Y280S-6							1050	75	2020	180	830	600/580	1080	960	6	25	170	1200	990	600	2790
NSC500-400-420	980	160	Y355M-6	1438.5	75	821.5	765	600	537	1690	100	3000	180	900	600/580	1080	960	8	30	170	1200	1600	900	3700
		132	Y315L-6							1340	80	2220	180	620	600/580	1080	960	8	25	170	1200	1300	900	3400
		110	Y315L-6							1340	80	2220	180	620	600/580	1080	960	8	25	170	1200	1150	900	3250
		90	Y315M-6							1340	80	2220	180	620	600/580	1080	960	8	25	170	1200	1080	900	3180
NSC500-400-460	1450	1400	Y50010-4	1773	100	1009	850	750	641	2220	130	3840	180	870	630	1280	1150	10	30	320	2400	4580	1300	8280
		1120	Y5007-4							2220	130	3840	180	870	630	1280	1150	10	30	320	2400	4110	1300	7810
		800	Y4507-4							1900	120	3480	180	780	630	1280	1150	10	30	320	2400	3230	1200	6830
NSC600-400-660	980	450	Y4505-6	1773	100	1009	850	750	641	1940	130	3480	180	780	630	1280	1150	10	30	320	2400	2830	1200	6430
		355	Y4006-6							1860	110	3340	180	745	630	1280	1150	10	30	320	2400	2190	1200	5790
		250	Y355L-6							1690	100	3180	180	705	630	1280	1150	10	30	320	2400	1800	1200	5400

Note: Dimensions and weight deviations subject to selected motor manufacturer are to be considered.
If require for the dimension of pump which is not shown in the above table, pls consult CNP.

Vertical NSC Pump with Motor Dimensions (Standard)

Unit: mm, unless other wise stated

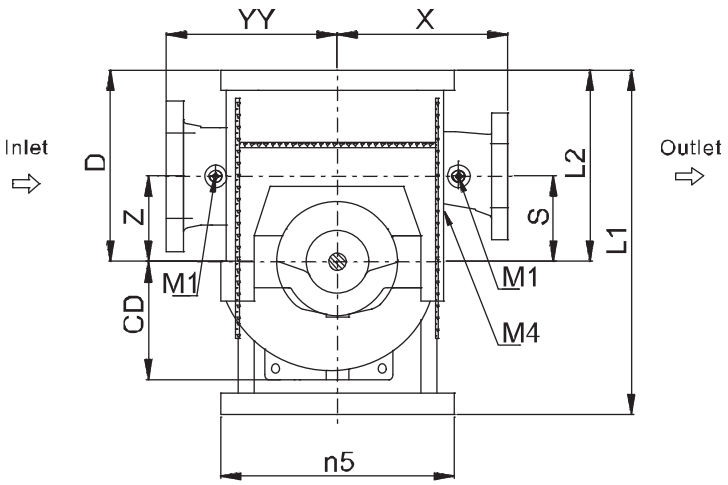


Direction of Rotation: Clockwise

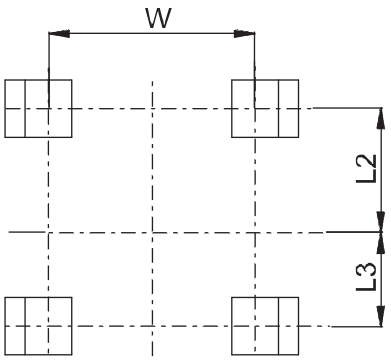
After alignment fill baseplate with non-shrinking concrete
Position of the terminal box is in accordance with the motor standard.
Connect pipes without stress

Connections

M1	Pressure gauge	G1/2
M2	Vent	G1/2
M3	Drainage	G1/2
M4	Leakage liquid drain	G3/4



A-B



View X

Dimensions---Vertical Arrangement

Unit : mm, unless other wise stated

Model	Motor Size	Power (kw)	Dimensions													
			CP	YY	X	S/Z	D	YD	CD	L	W	L1	L2	L3	L4	AC
NSC125-80-210	min. 90L	1.5	785	300	300	150	315	385	270	840	340	640	275	100	380	295
	max. 200L	30								515						740
NSC125-80-270	min. 100L	2.2	785	300	300	150	315	385	269	850						320
	max. 200L	30								515						740
NSC125-80-350	min. 132S	5.5	785	330	330	140	315	385	333	870						395
	max. 180L	22								515						660
NSC150-100-250	min. 100L	2.2	785	330	330	170	355	385	328	850	400	695	315	115	420	320
	max. 225M	45								515						795
NSC150-100-320	min. 132M	7.5	785	330	330	170	355	385	342	870						435
	max. 225M	45								515						795
NSC150-100-400	min. 160M	11	785	370	370	170	355	385	260	900						495
	max. 225M	45								545						795
NSC200-125-240	min. 132S	5.5	900	370	370	200	400	400	300	985	450	855	360	210	475	395
	max. 280M	90								645						1030
NSC200-125-300	min. 132M	7.5	900	370	370	200	400	400	325	985						435
	max. 280M	90								645						1030
NSC200-125-360	min. 160L	15	900	395	370	200	400	400	350	1015						540
	max. 280S	75								645						980
NSC200-125-460	min. 200L	30	900	450	450	200	400	400	389	1015	560					740
	max. 315M	132								645						1320
NSC200-150-290	min. 160M	11	900	400	400	200	400	400	340	1015	450	855	360	210	475	495
	max. 255M	45								645						795
NSC200-150-360	min. 180M	18.5	900	400	400	200	400	400	380	1015	450	855	360	210	475	620
	max. 280S	75								645						980
NSC200-150-460	min. 200L	30	1035	450	450	200	400	465	390	1150	560					740
	max. 315L	200								745						1320
NSC200-150-570	min. 250M	55	1035	600	500	300	500	465	460	1180	700	1060	460	315	575	895
	max. 355(6KV)	315								785						1710
NSC250-200-340	min. 200L	30	1035	450	450	240	500	465	368	1150	560	1060	460	315	575	740
	max. 280M	90								715						1030
NSC250-200-430	min. 225S	37	1035	500	500	240	500	465	400	1180						770
	max. 315L	200								745						1320
NSC250-200-530	min. 280S	75	1145	600	500	300	560	505	470	1290	700	1120	520	315	635	980
	max. 355(6KV)	315								850						1710
NSC250-200-660	min. 315S	110	1145	560	550	350	600	505	525	1320		1180	560	315	685	1220
	max. 355(6KV)	315								850						1710
NSC300-250-270	min. 200L	30	1035	500	450	300	560	465	404	1150	560	855	360	210	475	740
	max. 250M	55								715						930
NSC300-250-280	min. 200L	30	1035	500	450	300	560	465	404	1150	560	855	360	210	475	740
	max. 280S	75								715						980
NSC300-250-390	min. 280S	75	1155	500	500	300	600	515	417	1300	700	1180	560	315	685	980
	max. 315L	200								810						1320
NSC300-250-490	min. 280M	90	1345	550	550	300	600	605	583	1490						1030
	max. 355(6KV)	315								950						1710
NSC300-250-610	min. 315M	132	1345	650	550	350	630	605	640	1520	700	1210	590	315	715	1320
	max. 355(6KV)	315								950						1720
NSC300-250-780	min. 400(6KV)	355	1555	700	600	400	750	685	680	1730	950	1375	670	400	795	2000
	max. 500(6KV)	630								1085						2160
NSC350-300-310	min. 250M	55	1140	600	520	300	630	505	465	1255	700					895
	max. 315S	110								810		1210	590	315	715	1220
NSC350-300-330	min. 250M	55	1140	600	520	300	630	505	465	1255						1220
	max. 315S	110								810						1220
NSC400-300-450	min. 280M	90	1305	650	550	350	700	605	590	1450		1250	630	315	755	1030
	max. 355(6KV)	315								950						1710
NSC400-350-360	min. 250M	55	1485	670	570	350	370	600	513	1485	700	1250	630	315	755	895
	max. 315L	160								910						1320
NSC400-350-380	min. 250M	55	1340	670	570	350	670	600	513	1485	700	1250	630	315	755	895
	max. 315L	200								910						1320

Note:Dimensions and weight deviations subject to selected motor manufacturer are to be considered.
If require for the dimension of pump which is not shown in the above table, pls consult CNP.

Recommended Spare Parts

1.Recommended spare parts for commissioning

Soft Packed Stuffing Box

Part No	Part Name（Set）	Qty. of Pumps Including Standby Pumps				
		1	2	3	4	5
		Qty. of Spare Parts				
02.11.003 02.13.001 02.13.002	Gland packing O-Ring Lip-type seal ring	1	2	3	4	5

Mechanical Seal

Part No	Part Name（Set）	Qty. of Pumps Including Standby Pumps				
		1	2	3	4	5
		Qty. of Spare Parts				
02.08.001 04.02.017	Deep groove ball bearings Bearing circlip	1	2	3	4	5
02.13.001 02.13.002	O-Ring Lip-type seal ring	1	2	3	4	5
02.13.004	Mechanical seal	1	2	3	4	5

2、Recommended spare parts (per set) for 2 years operation (8000 hours per year)

Soft Packed Stuffing Box

Part No	Part Name（Set）	Qty. of Pumps Including Standby Pumps				
		1	2	3	4	5
		Qty. of Spare Parts				
04.02.021 04.02.019 02.03.004 02.05.001	Shaft Bearing sleeve Round nut Circlip	–	–	–	1	1
04.02.004	Impeller	1	2	2	2	2
02.08.001 04.02.017	Deep groove ball bearing Bearing circlip	1	1	1	2	2
04.09.005	Gland	–	–	–	1	1
02.13.001 02.13.002	O-Ring Lip-type seal ring	1	2	3	4	5
02.11.003	Gland packing	4	8	12	16	20
04.02.012	Set neck ring	–	–	–	1	1
04.09.002	Lantern ring	–	–	–	1	1
04.09.001	Wear ring	1	1	1	2	2
02.12.004	Gasket	1	1	1	2	2
04.02.022	Shaft sleeve	1	1	1	2	2

Mechanical Seal

Part No	Part Name (Set)	Qty. of Pumps Including Standby Pumps				
		1	2	3	4	5
		Qty. of Spare Parts				
04.02.021 04.02.019 02.03.004 02.05.001	Shaft Bearing sleeve Round nut Circlip	–	–	–	1	1
04.02.004	Impeller	1	2	2	2	2
02.08.001 04.02.017	Deep groove ball bearing Bearing circlip	1	1	1	2	2
02.13.001 02.13.002	O-Ring Lip-type seal ring	1	2	3	4	5
02.13.004	Mechanical seal	1	1	1	2	2
04.09.001	Wear ring	1	1	1	2	2
02.12.004	Gasket	1	1	1	2	2
04.02.023	Shaft sleeve	1	1	1	2	2

Scope of Supply

●Pump with bare shaft end : horizontal over vertical design, with finish coating, primer coating, soft packed stuffing box or mechanical seal.

●Extra charges for: ---Oil lubricated bearing--- Potable water quality coating/finish coating--- Horizontal baseplate for pump and motor--- Motor stool for vertical arrangements----Motor mounting----Special coating treatment----Witness test

●Extra charges for available accessories:---- Coupling and coupling guard----- Set pressure gauges-----Set seal pipe----- Venting valve-----Temperature senor for bearing (PT100)

Guarantee, Testing and Quality Control

●Every pump undergoes a functional test and the operating data is guaranteed without acceptance test, Witness test is surcharged.

●Acceptance tests can be performed in accordance with ISO9906 , GB3216C or other comparable international testing standards.

●The quality of the CNP products is ensured by the DIN ISO9001 quality assurance system.

Order Data

——Pump

1,Description of the pump according to "Designation"	6,Shaft seal as soft packed stuffing box or mechanical seal
2,Capacity Q	7,Liquid handled and liquid temperature
3,Total head H	8,Direction of rotation /arrangement of the motor
4,Material combination	9,Accessories required
5,Flange standard	10,Number and language of operating manual

——Motor (Provided by CNP)

1,Protection	4,Accessories required
2,Voltage, frequency, method of starting	5,Insulation class
3,Ambient temperature	6,Others
Note: If the motor is provided by the client, please bind the motor drawings and technical files.	