

Описание на одноступенчатые насосы двухстороннего всасывания. Серия NSC

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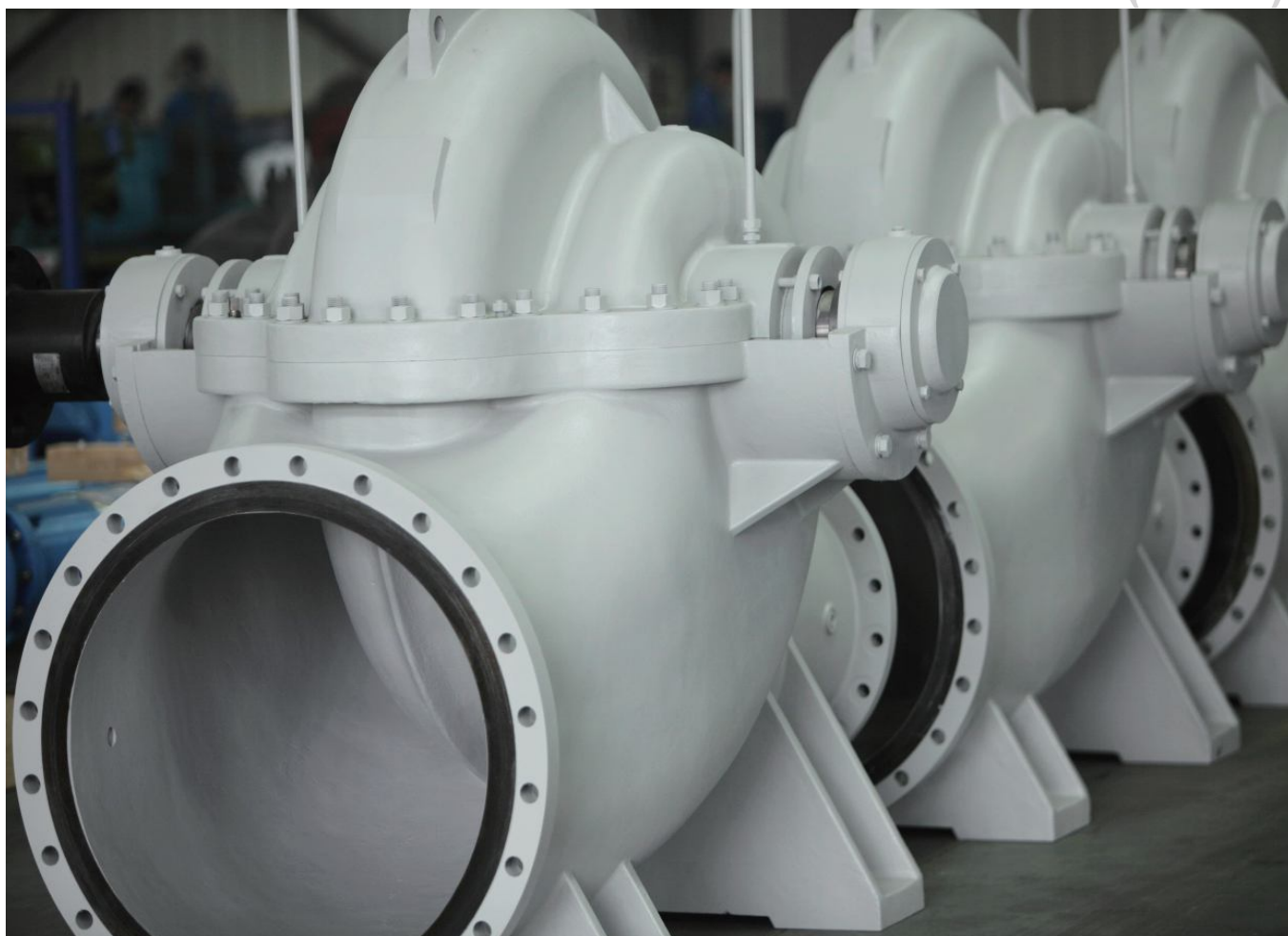
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NSC Single Stage Double Suction Split Casing Centrifugal Pump

Technical Manual **(50HZ)**



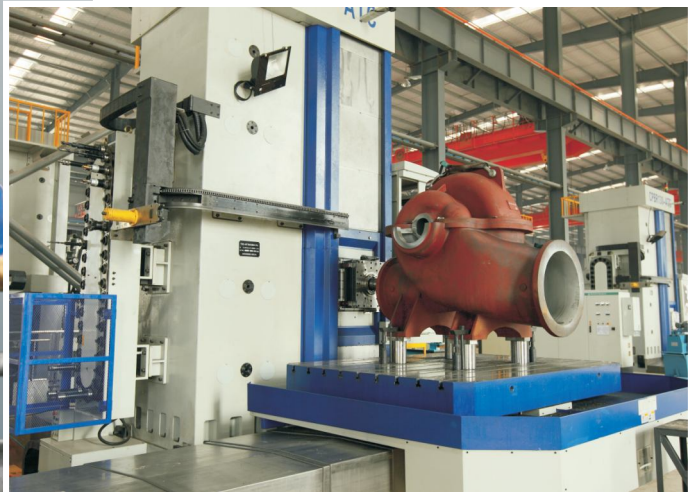
CNP CHANGSHA CO., LTD.

Pumping Water Pumping Honor





Water is vital for all known forms of life. As the population of the world continues to grow, so does the need for advanced, quality systems of water treatment, irrigation, drainage, and sewage treatment. Industrial growth, so vital to economic stability all over the world, must also embrace responsible, safe, efficient waste disposal methods in order to comply with regulatory agencies and protect the environment in which we live from water and air pollution. CNP has helped many companies attain this goal through decades of experience, incorporating sophisticated planning, engineering, and other support services to pumping stations around the world. Innovative fluid handling solutions that enhance reliability while lowering energy consumption and maintenance costs, reduce carbon emissions, and provide value are what CNP has built its reputation on.



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Brief Introduction

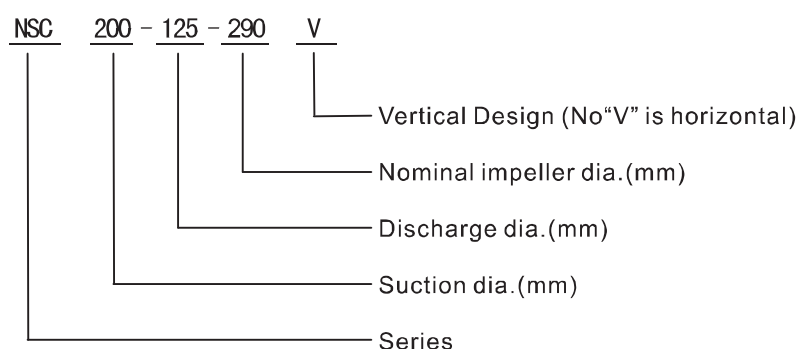
Applications

- 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 medium
 - 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 :50~20000m³/h
Head	H : 10~230m
Suction Dia	DN: 100~1400mm
Discharge Dia	DN: 80~1200mm
Operating Pressure	P :≤5MPa
Operating Temperature	t : -15℃~+ 200℃(above 80℃,pls contact CNP)
Abrasive medium concentration:≤4%	

Designation



Structure Design

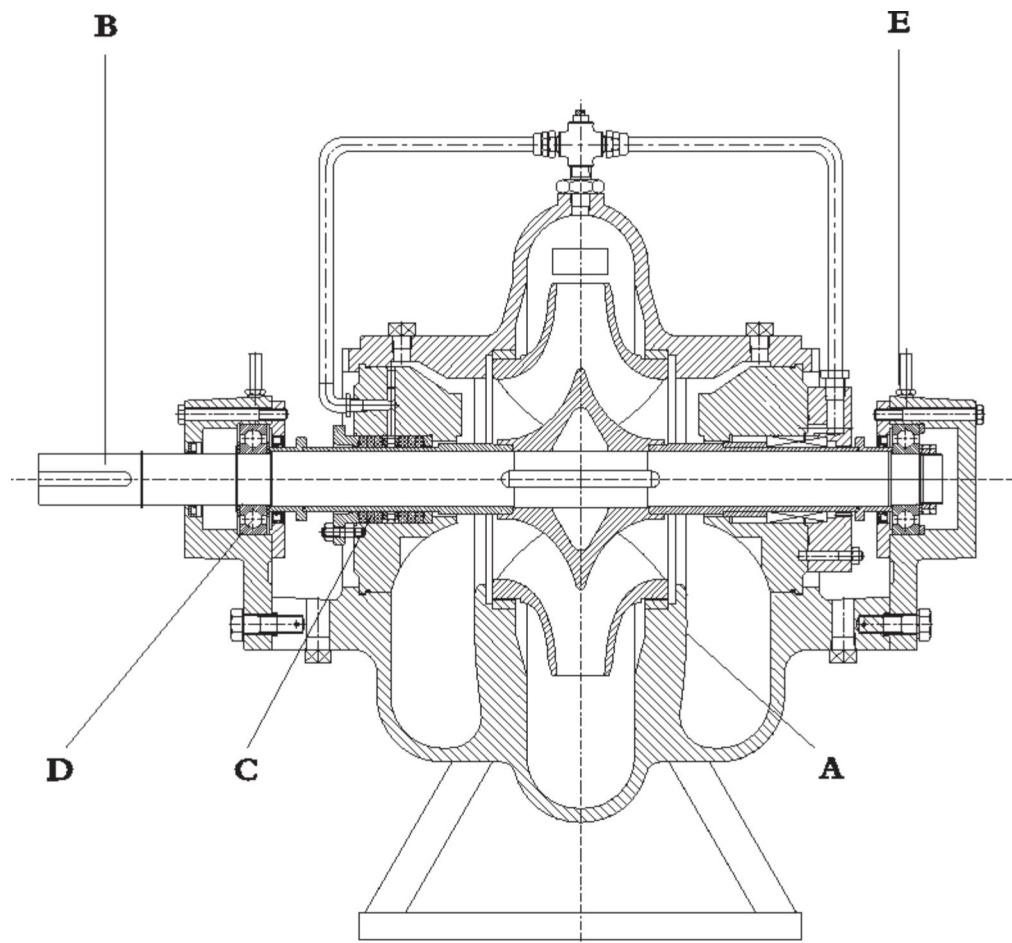
NSC is Single stage, axially split volute casing pump with double suction impeller, for horizontal and vertical installation. Drive shaft end of the horizontal pump optionally on the left or right side. Flanges drilled to GB, ISO, DIN, BS or ANSI.

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 impeller running clearances
- j. Excellent efficiencies and outstanding NPSH improved by CFD
- k. Heavy duty casing design for high working pressure

B. Rotor parts

- 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 softpacked stuffing boxes
- b. Unbalanced mechanical seal, according to DIN 24960
Balance mechanical seal for operating pressure >16 bar on required
- c. Cartridge-type mechanical seal on required

D. Bearing

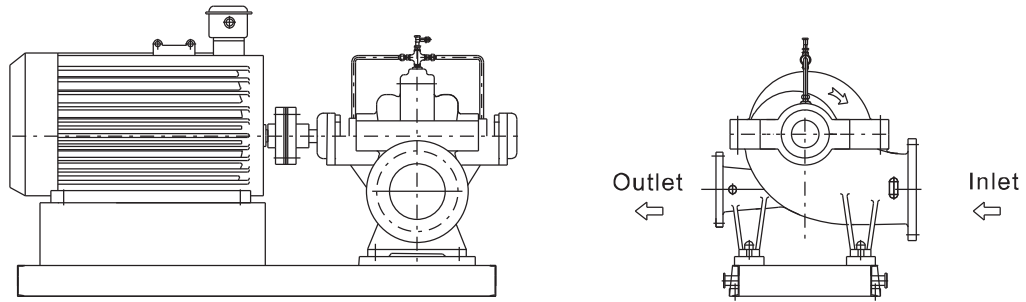
- a. SKF covered, sealed for life grease lubricated antifriction bearings for long service life
- b. Open gland, enough space for service activities
- c. Optional: oil lubrication with constant level oiler

E. Controlling & protection

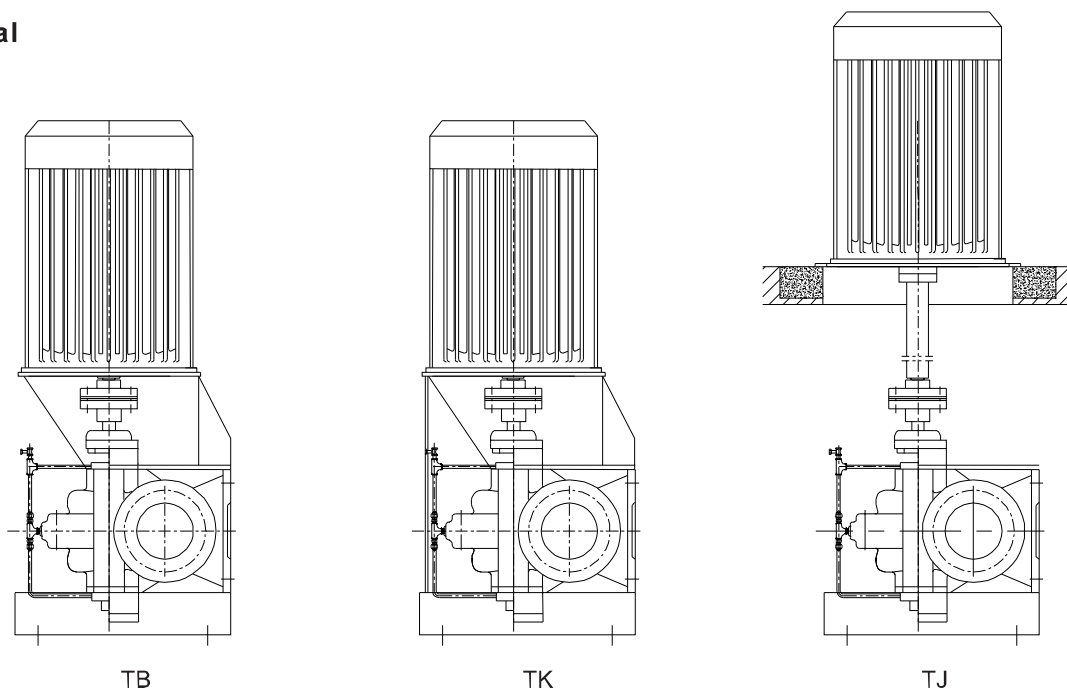
- a. Heavy duty shaft completely sealed and dry for zero corrosion
- b. Short and rigid with negligible vibrations
- c. Replaceable shaft protecting sleeves
- d. No threads exposed to pumped medium, long operating life and no corrosion
- e. Adjustment-free assembly
- f. Quick and easy assembly/dismantling of the rotor components due to elastically pre-stressed 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

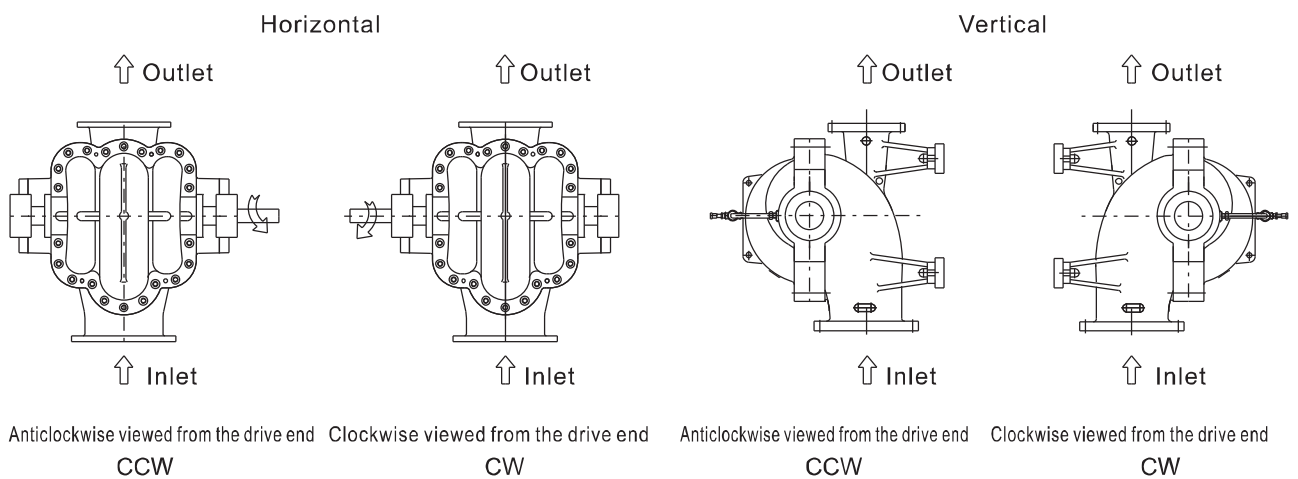


Vertical



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

Direction of Rotation and Flow Direction



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 /SS420/ Stainless steel	Duplex stainless steel	SS420/ Stainless steel	
Bearing housing	Cast Iron	Cast Iron	Cast Iron	Cast Iron	
Shaft	SS420	SS420	Duplex stainless steel	SS420/ Stainless steel	
Wear ring	Cast Iron	Ductile CI/SS420	Bronze / Duplex stainless steel with hardening treatment	Ductile CI /Cast steel	
Shaft sleeve	SS420	SS420	Duplex stainless steel	SS420	
Shaft seal	Packing/ Mechanical seal	Packing/ Mechanical seal	Mechanical seal	Mechanical seal	
Flushing Pipeline	Q235-A	Q235-A	316L	Q235-A/stainless steel	

Note: The materials of pump parts are chosen 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 d	Sealed chamber D	Sealed chamber L	Bearing	Mechanical seal	Pump structure
NSC125-80-210	35	50	75	72	6307 SKF	M74N/50-G92-Q2BVGG (Mechanical Seal Type B)	Horizontal Installation Type C
NSC125-80-270							
NSC125-80-350							
NSC150-100-250							
NSC150-100-320							
NSC150-100-400	40	55	75	72	NU6308 /6308 SKF	H75N/55-G92-Q2BVGG (Mechanical Seal Type B)	Horizontal Installation Type C
NSC150-100-400G							
NSC200-125-240	45	60	85	82	6309 SKF	M74N/60-G92-Q2BVGG (Mechanical Seal Type B)	Horizontal Installation Type C
NSC200-125-300							
NSC200-125-380							
NSC200-125-480							
NSC200-150-290							
NSC200-150-360	55	70	95	85	6311 SKF	M74N/70-G92-Q2BVGG (Mechanical Seal Type B)	Horizontal Installation Type C
NSC200-150-460							
NSC200-150-570							
NSC250-200-340							
NSC250-200-430							
NSC300-250-270	65	80	110	93	6313 FAG	M74N/80-G92-Q2BVGG (Mechanical Seal Type B)	Horizontal Installation Type C
NSC300-250-280							
NSC250-200-530							
NSC250-200-660							
NSC300-250-390							
NSC350-300-310	75	90	120	92	6315 SKF	M74N/90-G92-Q2BVGG (Mechanical Seal Type A)	Horizontal Installation Type C
NSC350-300-330							
NSC350-300-400							
NSC300-250-490							
NSC300-250-610							
NSC400-300-450							
NSC400-350-360							
NSC400-350-380	75	90	120	92	6315 SKF	M74N/90-G92-Q2BVGG (Mechanical Seal Type A)	Horizontal Installation Type C
NSC450-450-350							
NSC500-400-400							
NSC500-400-420							

Model	Shaft dia.	Nominal dia. packing/mechanical sealing	Sealed chamber D	Sealed chamber L	Bearing	Mechanical seal Model	Pump structure
NSC600-500-550 NSC600-500-580	80	115	160	170	6320 SKF	M74N/115-G92-Q2BVGG (Mechanical Seal Type A)	Horizontal Installation Type A
NSC300-250-780	85	110	150	130	NU318/6318 SKF	H75N/110-G92-Q2BVGG (Mechanical Seal Type A)	Horizontal Installation Type B
NSC400-300-570	85	110	150	130	6317 FAG	M74N/110-G92-Q2BVGG (Mechanical Seal Type A)	Horizontal Installation Type B
NSC400-300-700							
NSC400-350-520							
NSC500-400-500							
NSC500-400-590							
NSC500-400-675							
NSC700-700-500							
NSC600-500-470 NSC600-500-520	95	115	160	170	6320 FAG	M74N/120-G92-Q2BVGG (Mechanical Seal Type A)	Horizontal Installation Type A
NSC500-400-540	100	135	180	150	NU321/6321 SKF	M74N/135-G92-Q2BVGG (Mechanical Seal Type A)	Horizontal Installation Type B
NSC500-400-660							
NSC500-300-790							
NSC600-400-740							
NSC600-450-640							
NSC700-500-670							
NSC700-600-600							
NSC700-600-680	115	150	195	180	2XNU324/6324 SKF	H75N/150-G92-Q2BVGG (Mechanical Seal Type A)	Horizontal Installation Type A
NSC500-300-920					NU324/6324 SKF	M74N/150-G92-Q2BVGG (Mechanical Seal Type A)	
NSC600-400-850							
NSC700-600-740							
NSC800-700-750	120	160	205	170	NU326/6326 SKF	M74N/160-G92-Q2BVGG (Mechanical Seal Type A)	Horizontal Installation Type B
NSC700-500-940	130	170	215	176	2XNU328/6328	M74N/170-G92-Q2BVGG (Mechanical Seal Type A)	Horizontal Installation Type A
NSC800-700-910					NU328/2X6328		
NSC1000-800-940					NU328/6328		

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

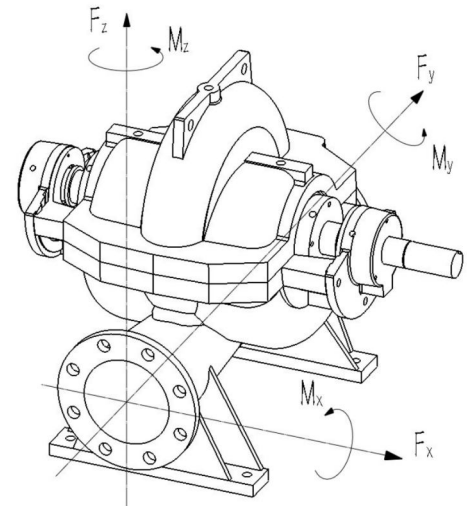
Pressure Limits

Model	Permissible operating pressures(MPa)	Model	Permissible operating pressures(MPa)
NSC125-80-210	1.6	NSC400-300-700	2.5
NSC125-80-270	1.6	NSC400-350-360	1.6
NSC125-80-350	1.6	NSC400-350-380	1.6
NSC150-100-250	1.6	NSC400-350-520	1.6
NSC150-100-320	1.6	NSC450-450-350	1.0
NSC150-100-400	1.6	NSC500-300-780	3.0
NSC150-100-400G	3.0	NSC500-300-920	2.5
NSC200-125-240	1.6	NSC500-400-400	1.6
NSC200-125-300	1.6	NSC500-400-420	1.6
NSC200-125-380	1.6	NSC500-400-500	1.6
NSC200-125-480	1.6	NSC500-400-540	1.6
NSC200-150-290	1.6	NSC500-400-590	1.0
NSC200-150-360	1.6	NSC500-400-660	2.5
NSC200-150-460	1.6	NSC500-400-675	1.0
NSC200-150-570	2.5	NSC600-400-740	1.6
NSC250-200-340	1.6	NSC600-400-850	1.6
NSC250-200-430	1.6	NSC600-450-640	1.6
NSC250-200-530	1.6	NSC600-500-470	1.0
NSC250-200-660	2.5	NSC600-500-520	1.0
NSC300-250-270	1.6	NSC600-500-550/580	1.0
NSC300-250-280	1.6	NSC700-500-670	1.6
NSC300-250-390	1.6	NSC700-500-940	2.5
NSC300-250-490	1.6	NSC700-600-600	1.0
NSC300-250-610	1.6	NSC700-600-680	1.0
NSC300-250-780	3.0	NSC700-600-740	1.6
NSC350-300-310	1.6	NSC700-700-500	1.0
NSC350-300-330	1.6	NSC800-700-750	1.0
NSC350-300-400	1.6	NSC800-700-910	1.6
NSC400-300-450	1.6	NSC1000-800-940	1.0
NSC400-300-570	1.6		

Remark: 1. The max test pressure in above table is 1.6Mpa and pump casing material within this range apply to HT250; if the pressure is over 1.6 Mpa, should use ductile cast iron or the better materials. 2. The max test pressure in above table pump is 2.5Mpa and above, if the max test pressure is within 2.0Mpa, casing material can be HT250, if the max test pressure is more than 2.0Mpa, casing material should be ductile cast iron or the other better materials.

Impeller, Nozzle Forces and Nozzle Moments

Model	Impeller Dimensions(mm)		Permissible Nozzle forces F_x, F_y, F_z N	Permissible Nozzle moments M_x, M_y, M_z Nm
	Free passage +/-10%	Max.Diameter		
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		
NSC150-100-400G	21	423	1500	1000
NSC200-125-240	48	250		
NSC200-125-300	37	301		
NSC200-125-380	35	395	2000	1500
NSC200-125-480	29	491		
NSC200-150-290	52	290		
NSC200-150-360	44	370	2500	2000
NSC200-150-460	35	460		
NSC200-150-570	32	585		
NSC250-200-340	57	338	3000	2750
NSC250-200-430	52	426		
NSC250-200-530	40	530		
NSC250-200-660	38	665	4000	2750
NSC300-250-270	119	302		
NSC300-250-280	96	321		
NSC300-250-390	70	395		
NSC300-250-490	60	490		
NSC300-250-610	45	610		
NSC300-250-780	42	770		
NSC350-300-310	132	310		
NSC350-300-330	101	350		
NSC350-300-400	81.6	425		
NSC400-300-450	81	450		
NSC400-300-570	67	580	5000	3000
NSC400-300-700	65	700		
NSC400-350-360	149	360		
NSC400-350-380	122	415		
NSC400-350-520	90	558		
NSC450-450-350	161	350		
NSC500-300-780	81	780	5600	3200
NSC500-300-920	85.4	920		
NSC500-400-400	180.6	412		
NSC500-400-420	180	425		
NSC500-400-500	166.1	498		
NSC500-400-540	105	545		
NSC500-400-590	105	545		
NSC500-400-660	84.9	666		
NSC500-400-675	84.9	666	6900	3800
NSC600-400-740	99	740		
NSC600-400-850	102	860		
NSC600-450-640	128	650		
NSC600-500-470	175	520	8800	4900
NSC600-500-520				
NSC600-500-550				
NSC600-500-580	243	580		
NSC700-500-670	130	672	10700	6300
NSC700-500-940	128.5	940		
NSC700-600-600	103.5	610		
NSC700-600-680	240	702		
NSC700-600-740	146	780	12600	7100
NSC700-700-500	246	522		
NSC800-700-750	315.9	750		
NSC800-700-910	196	920		
NSC1000-800-940	291	940		



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 contact 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.

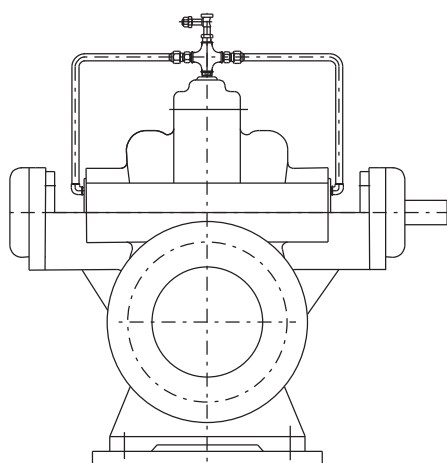
Paint Specifications

	Inside	Outside
Pre-treatment	Blasting (2 times)	
Primer coating	Epoxy zinc-rich primer	
Finish coating	Wet parts use the Interzone 954 or Epoxy zinc-rich primer	Acrylic Enamel Normal NSC: RAL5015(Blue) Fire-Fighting Pump: RAL3000(Red)

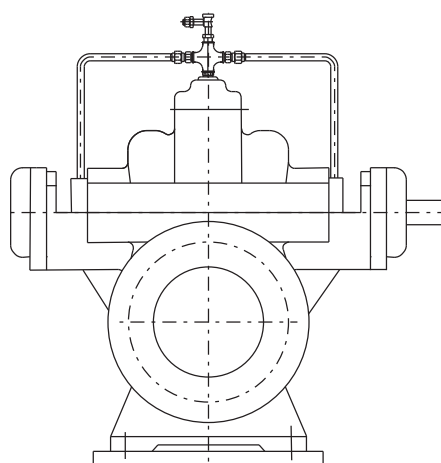
Note: Super light energy saving coating, wear-resistant coating, anti-corrosion coating and others are available according to the different medium, application, customer requirements and the coating is extra-charged.

Arrangement

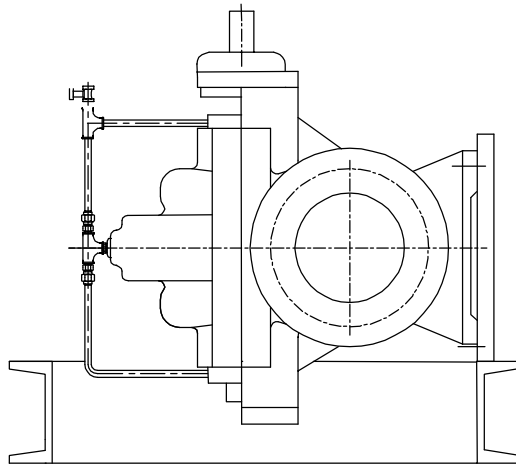
Sealing Water Pipes



▲01 Flushing water piping stuffing box

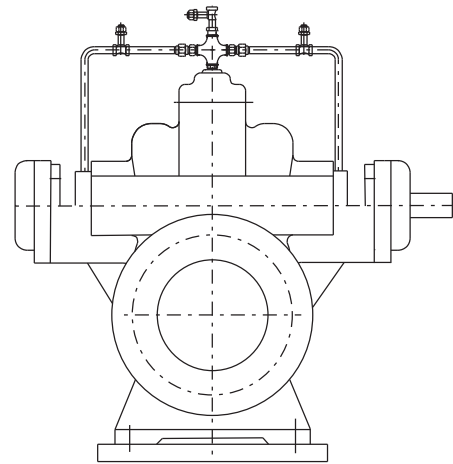
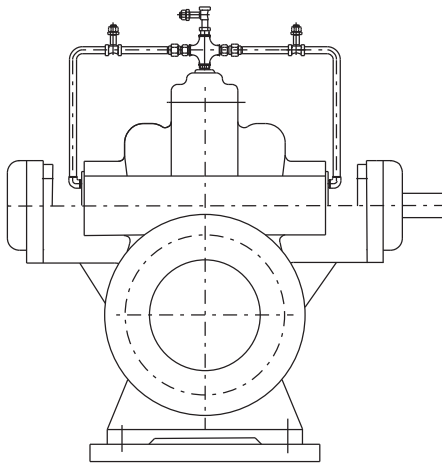


▲ 02 Flushing water piping mechanical seal

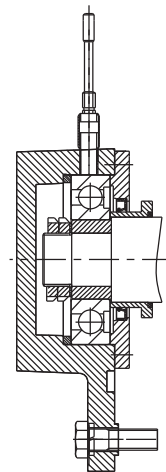
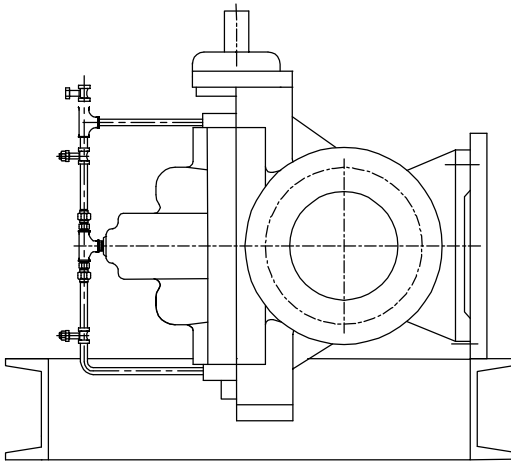


▲ 03 Mechanical seal and flushing water piping for lineshaft bearing

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



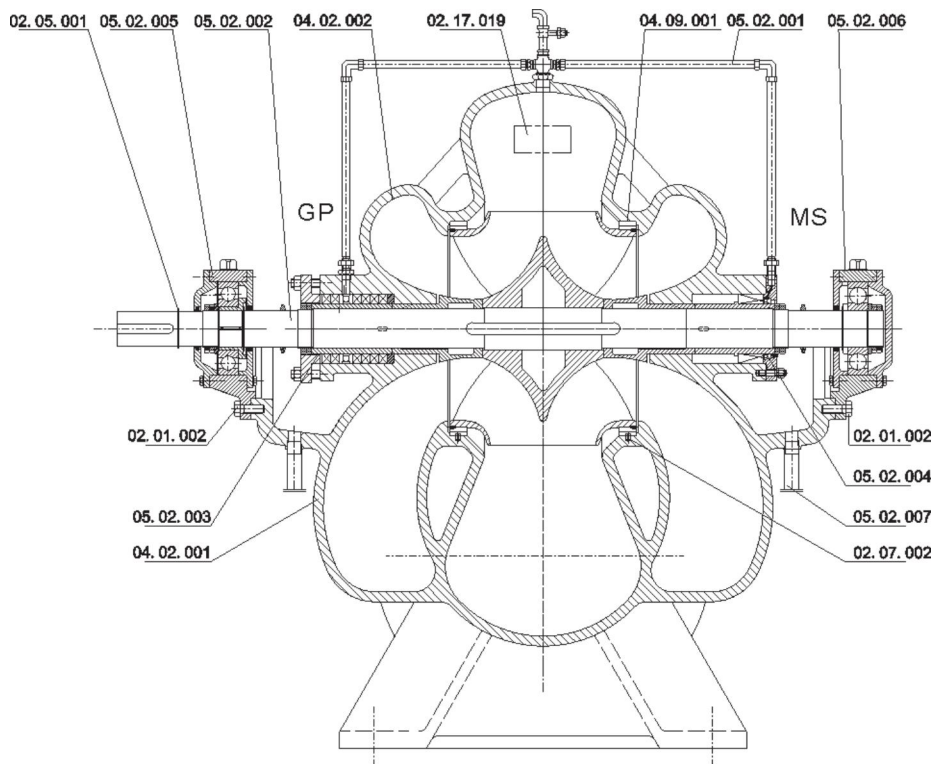
▲ 04 Flushing water piping stuffing box with vent valve ▲ 05 Flushing water piping mechanical seal with vent valve



▲ 06 Flushing water piping and vent valve (Vertical installation) ▲ 07 Bearing temperature sensor (PT100)

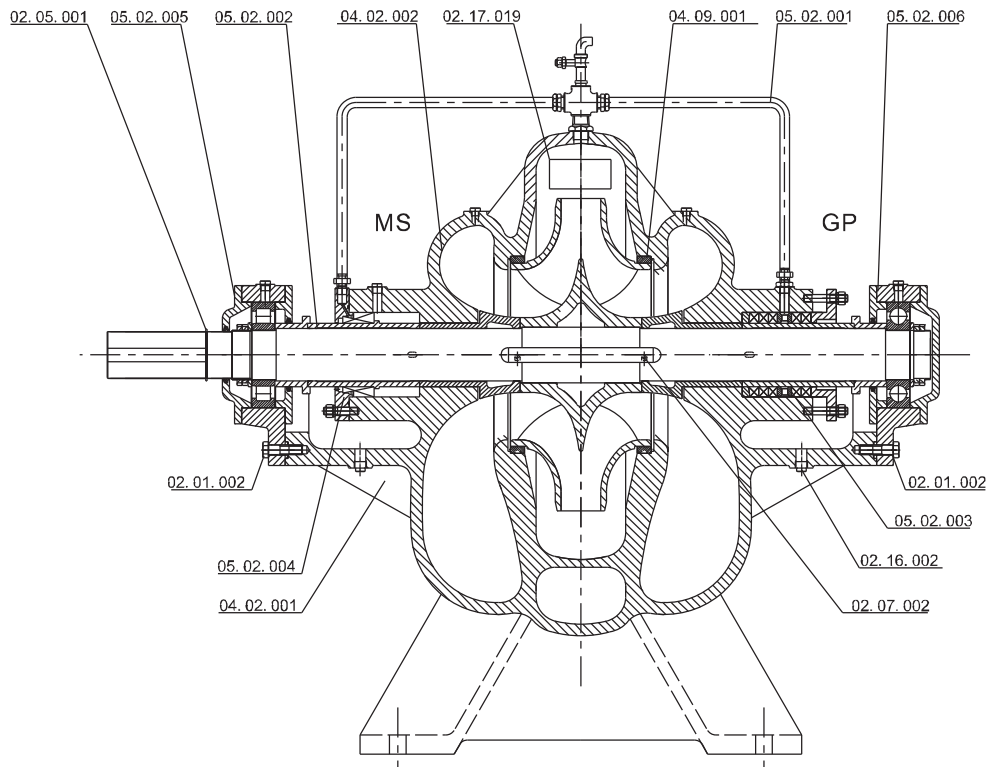
Sectional View—NSC

Horizontal Installation



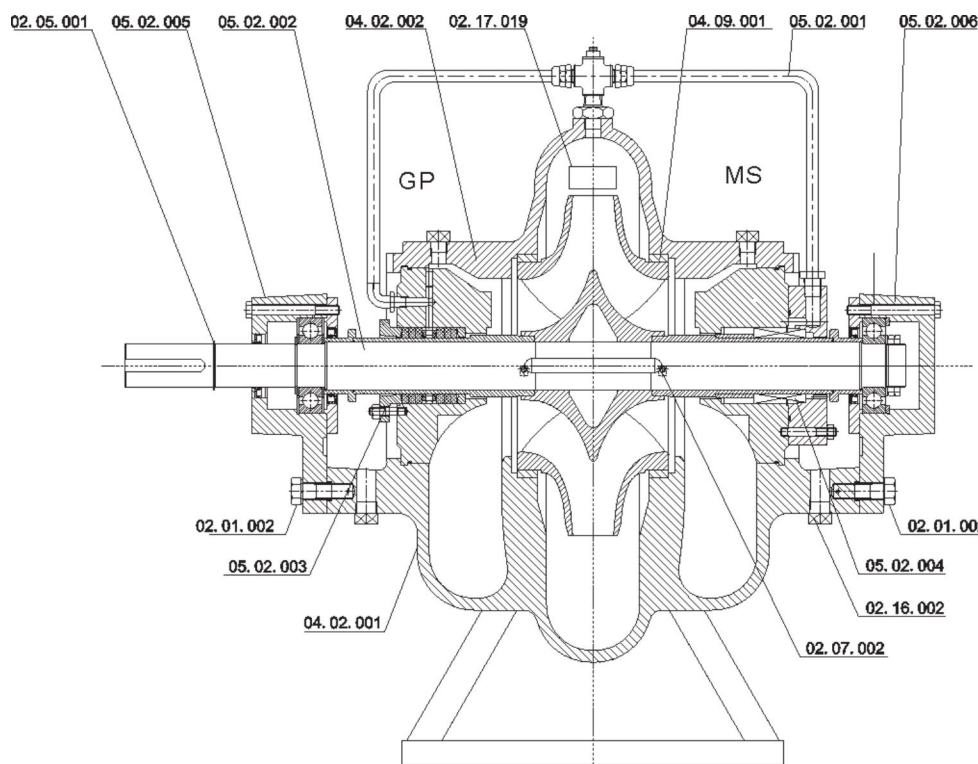
▲ Type A

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

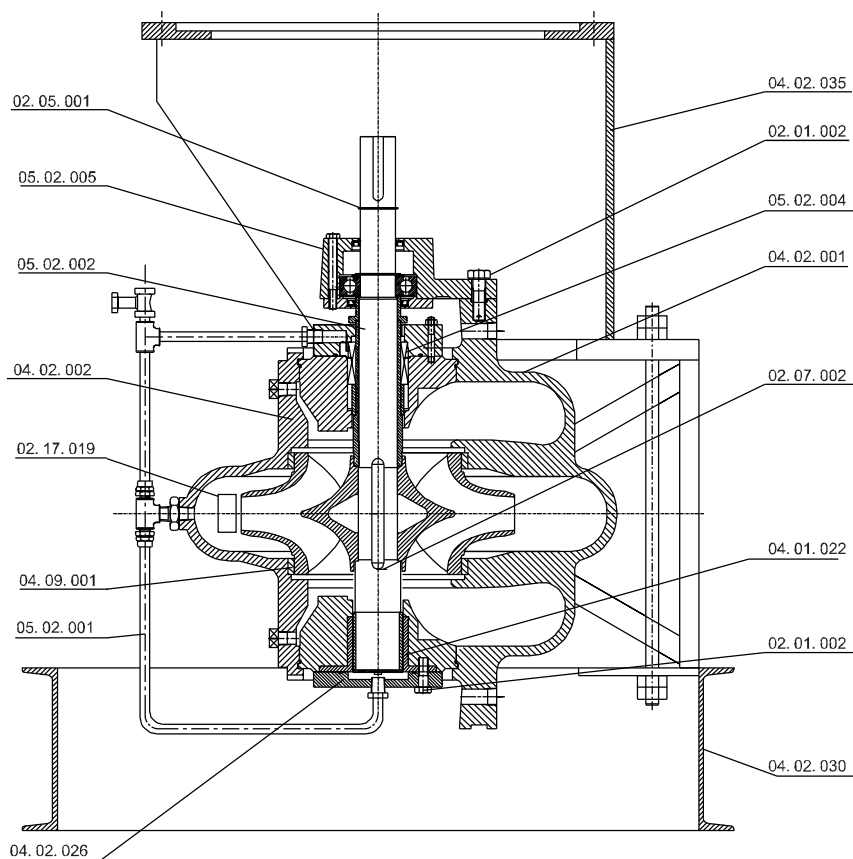
Part No.	Part Name
02.05.001	Shaft Circlip
05.02.005	Bearing assembly (DE)
05.02.002	Rotor assembly
04.02.002	Upper casing
02.17.019	Nameplate
04.09.001	Casing wear ring
05.02.001	Flushing water piping
05.02.006	Bearing assembly (NDE)
02.01.002	Bolt
05.02.004	Mechanical seal assembly
04.02.001	Lower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



▲ Type C

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

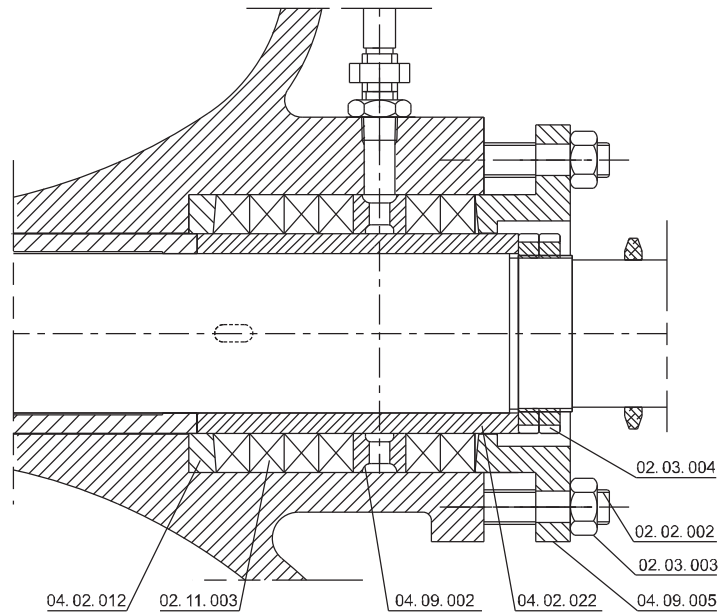
Vertical Installation



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

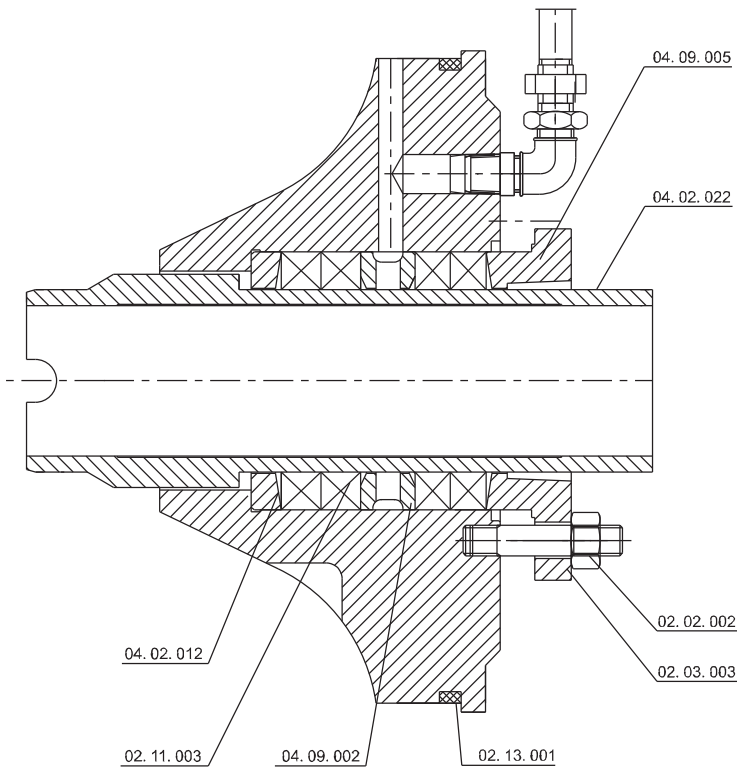
Sectional View—Shaft Seal

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

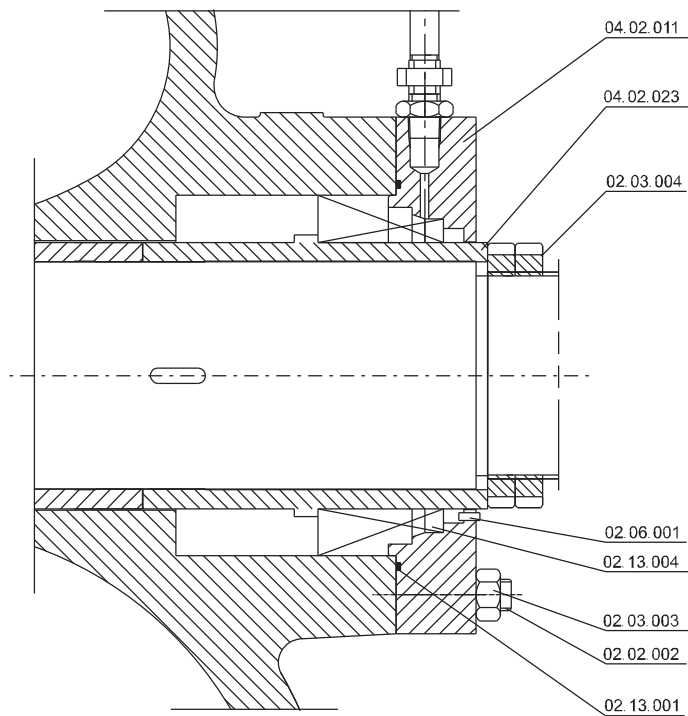
▲ Type A—Apply to horizontal installation type A and B



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

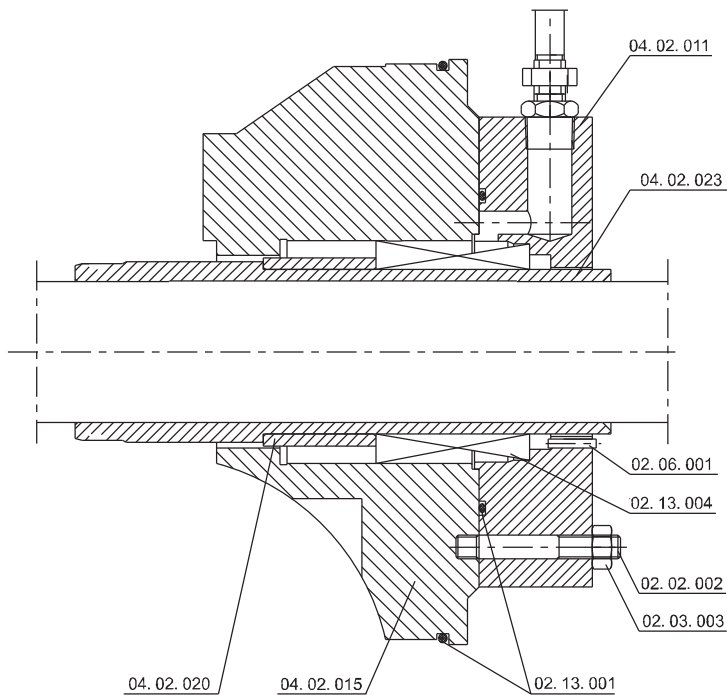
▲ Type B—Apply to horizontal installation type C

2.Mechanical Seal



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

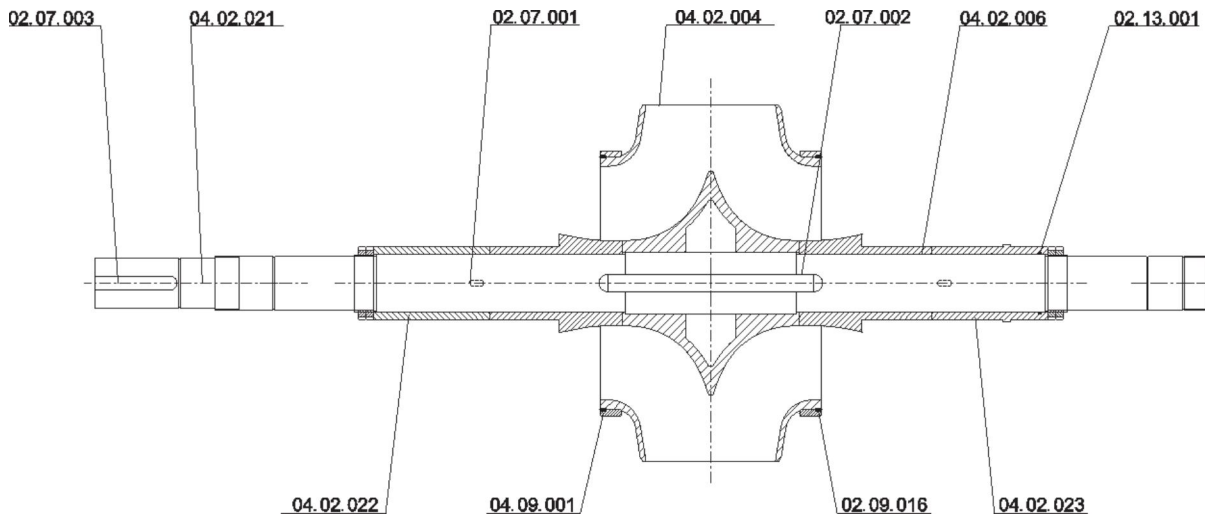
Part No.	Part Name
04.02.011	Seal cover
04.02.023	Shaft protecting sleeve
02.03.004	Round nut
02.06.001	Round pin
02.13.004	Shaft seal unit
02.03.003	Nut
02.02.002	bolt
02.13.001	O-Ring



▲ Type B—Apply to horizontal installation type C

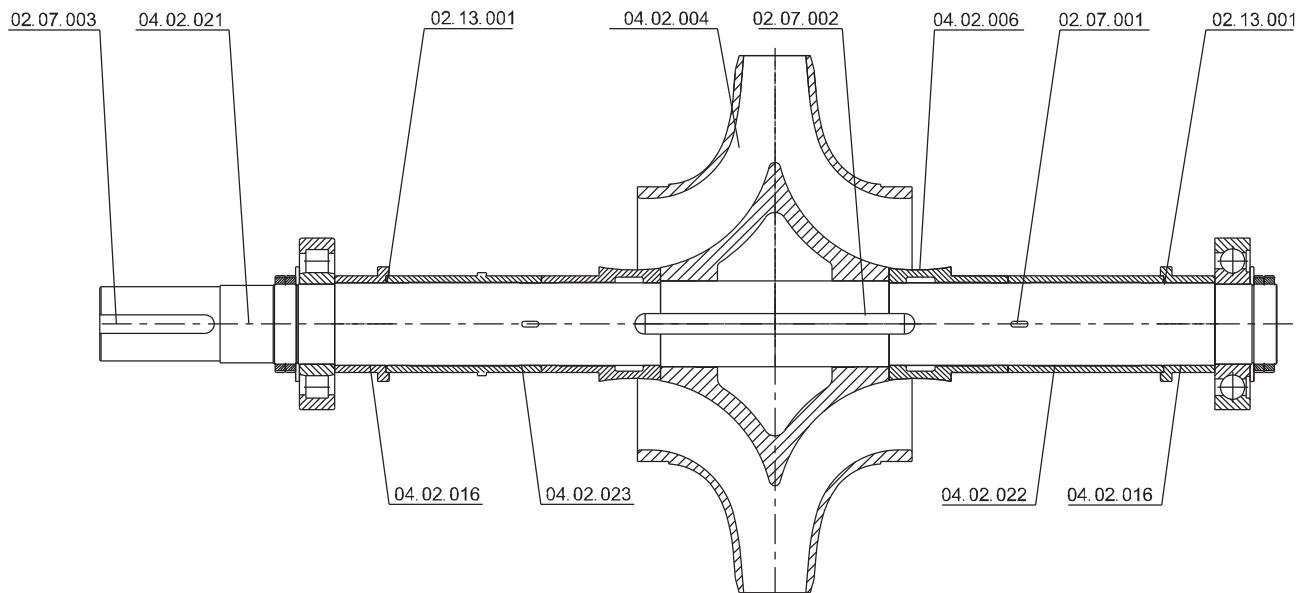
Part No.	Part Name
04.02.011	Seal cover
04.02.023	Shaft protecting sleeve
02.06.001	Round pin
02.13.004	Shaft seal unit
02.02.002	Bolt
02.03.003	Nut
02.13.001	O-Ring
04.02.015	Shaft seal housing
04.02.020	Spacer sleeve

Sectional View—Rotor



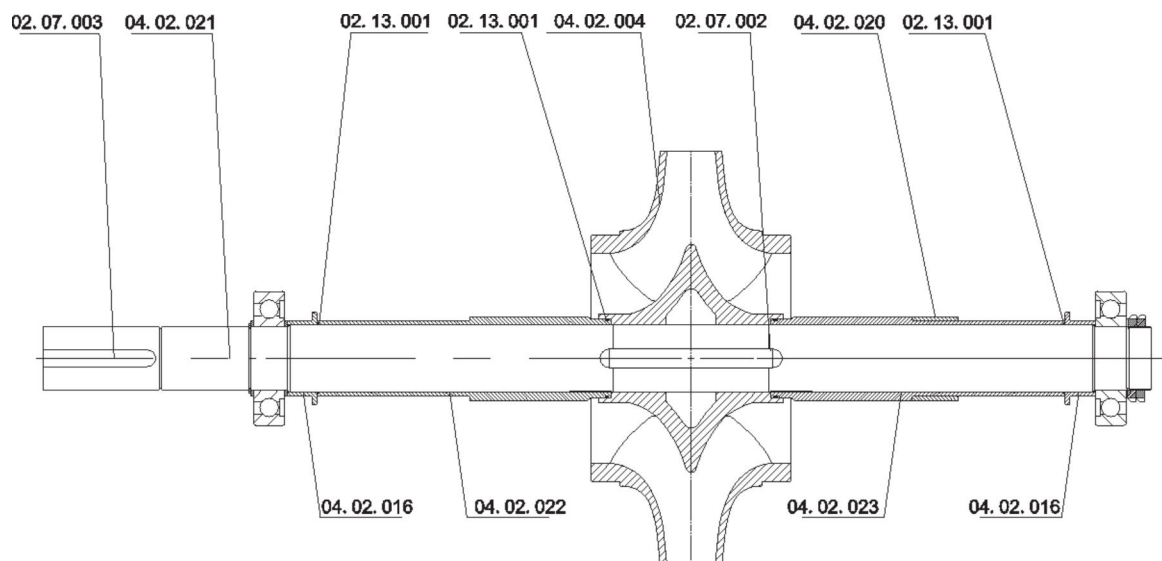
▲ Type A—Apply to horizontal installation type A

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 seal ring
02.09.016	Impeller locating screw	04.02.023	Shaft protecting sleeve(MS)		



▲ Type B—Apply to horizontal installation type B

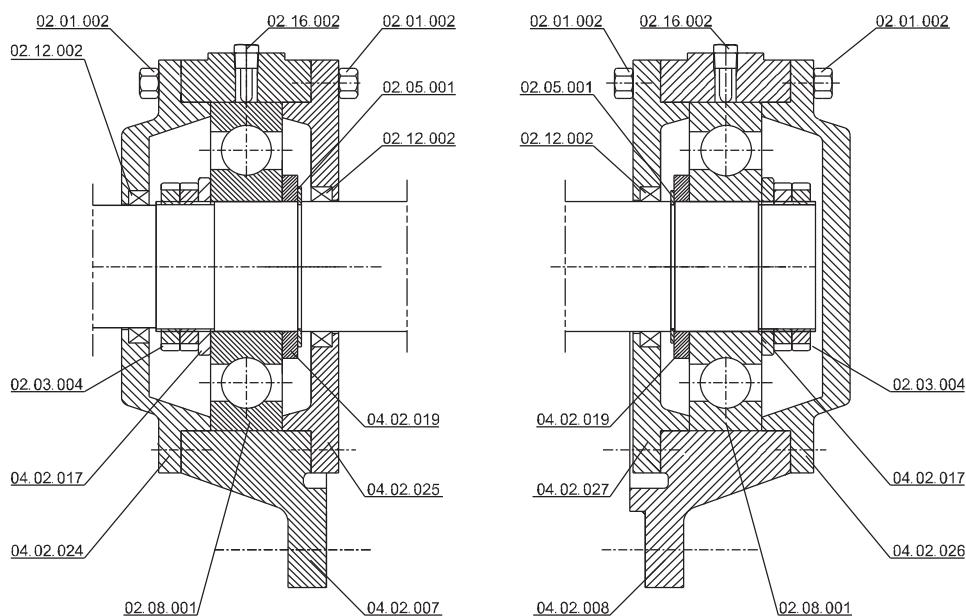
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.07.003	Key C	04.02.021	Shaft	02.13.001	O-Ring
04.02.004	Impeller	02.07.002	Key B	04.02.006	Shaft protecting sleeve
02.07.001	Key A	04.02.016	Water baffle sleeve	04.02.023	Shaft protecting sleeve(MS)
04.02.022	Shaft protecting sleeve(GP)				



▲ Type C—Apply to horizontal installation type C

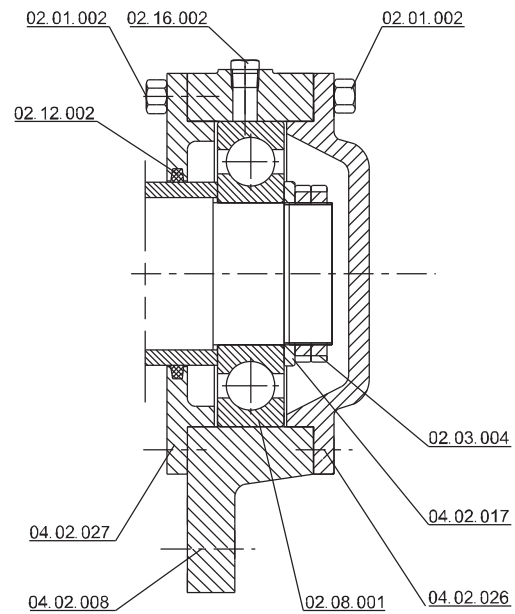
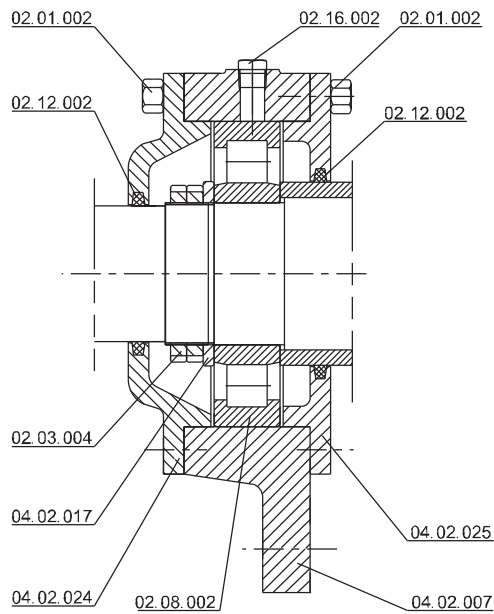
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.07.003	Key C	04.02.021	Shaft	02.13.001	O-Ring
04.02.004	Impeller	02.07.002	Key B	04.02.020	Spacer sleeve(MS)
04.02.023	Shaft protecting sleeve(MS)	04.02.016	Water baffle sleeve	04.02.022	Shaft protecting sleeve(GP)

Sectional View—Bearing



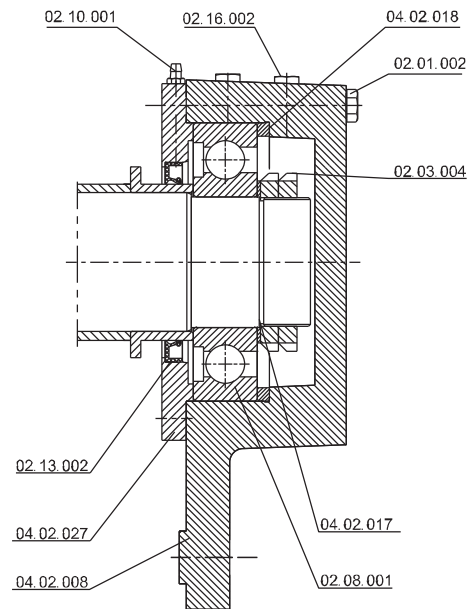
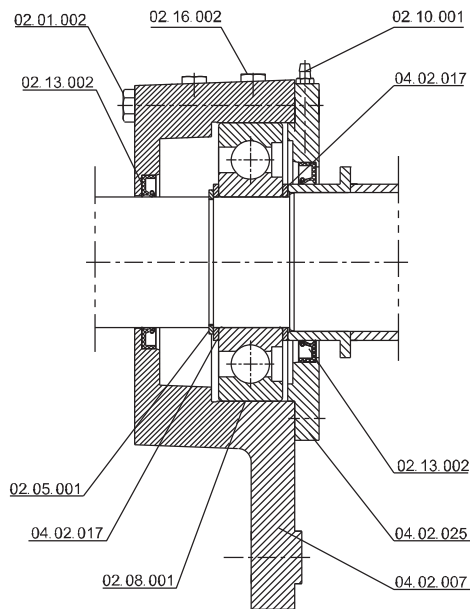
▲ Type A---Apply to horizontal installation type A

Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.01.002	Hex bolts	02.12.002	Bearing retainer 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	Lip seal ring	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

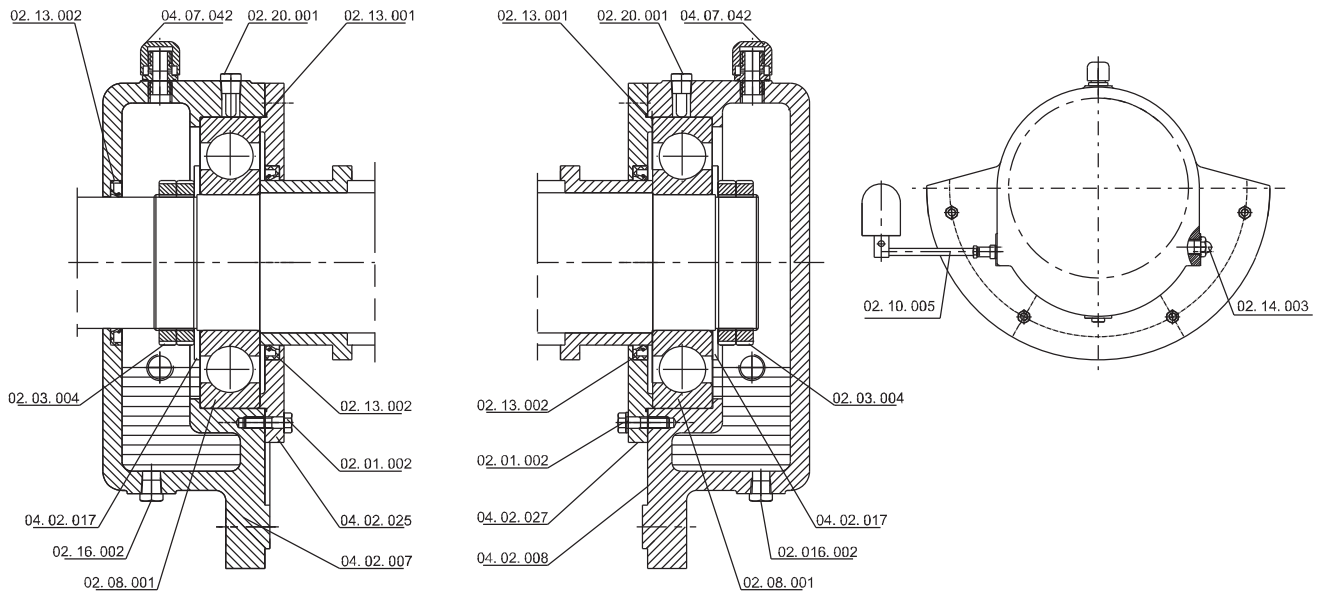
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.01.002	Hex bolts	02.12.002	Felt ring	02.03.004	Round nut	04.02.017	Bearing circlip
04.02.024	Bearing outer cover (DE)	02.08.002	Roller bearing	02.16.002	Plug	04.02.025	Bearing inner cover (DE)
04.02.007	Bearing housing (DE)	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

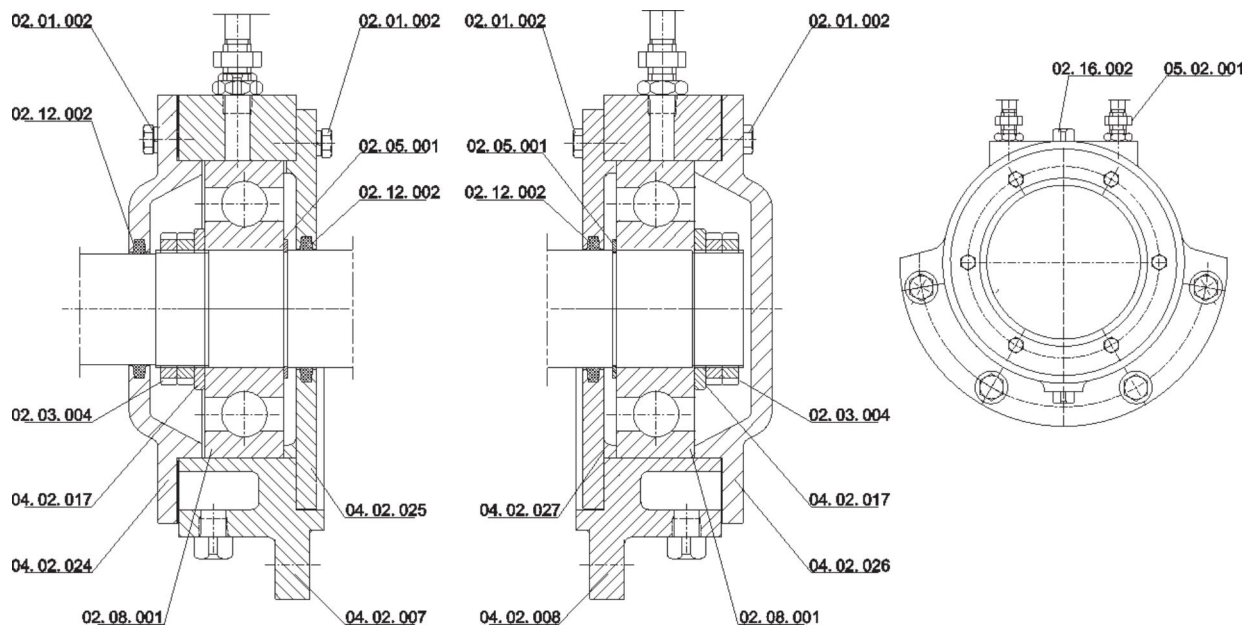
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.01.002	Hex bolts	02.13.002	Lip-type seal ring	02.05.001	Shaft Circlip	04.02.017	Bearing circlip
02.08.001	Deep groove ball bearing	02.16.002	Plug	02.10.001	Straight-through type oil cup	04.02.025	Bearing inner cover (DE)
04.02.007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

Bearing with oil lubrication



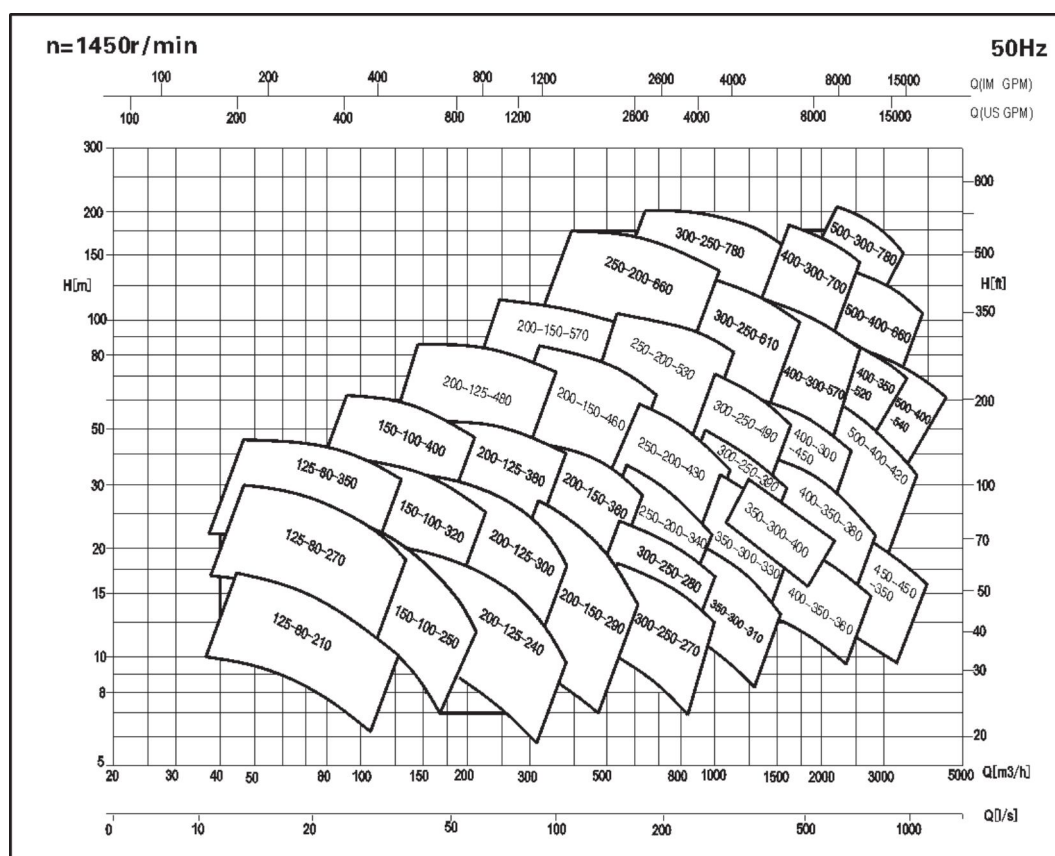
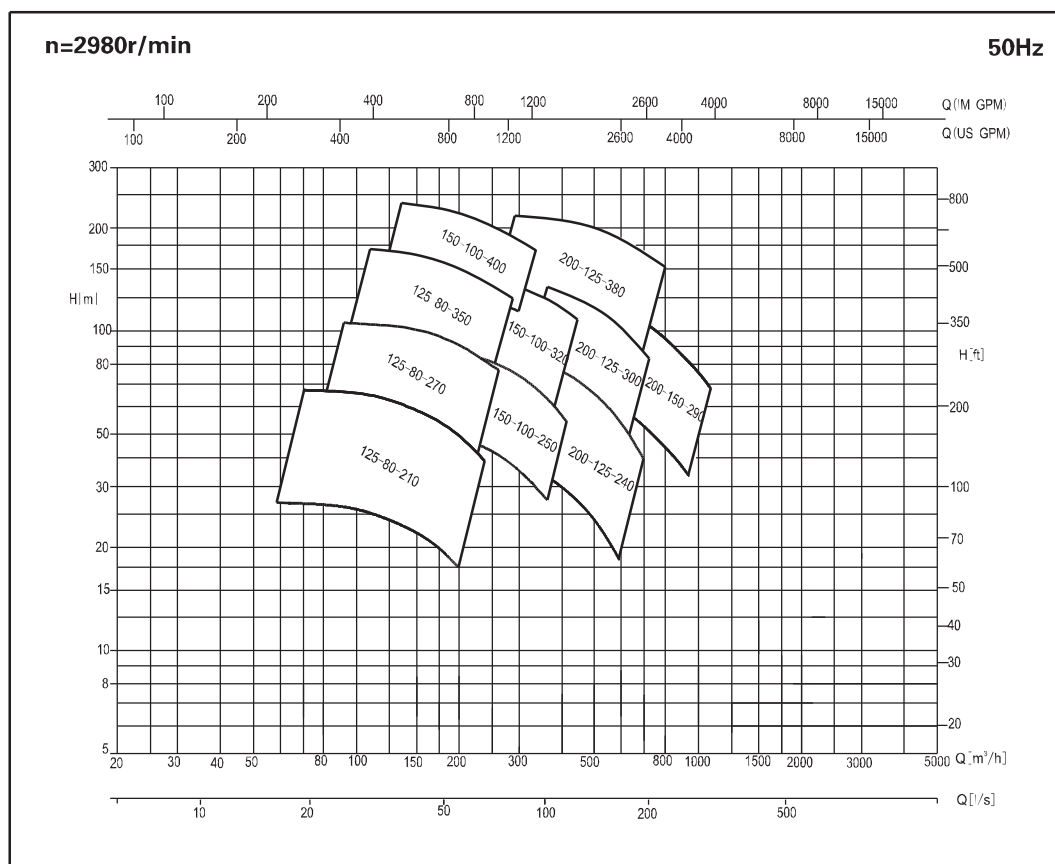
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.13.002	Lip-type seal ring	02.03.004	Round nut	04.02.017	Bearing circlip	02.16.002	Plug
02.08.001	Deep groove ball bearing	04.07.042	Breather cap	02.20.001	Temperature measuring device	02.13.001	O-Ring
02.01.002	Hex bolts	04.02.025	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		

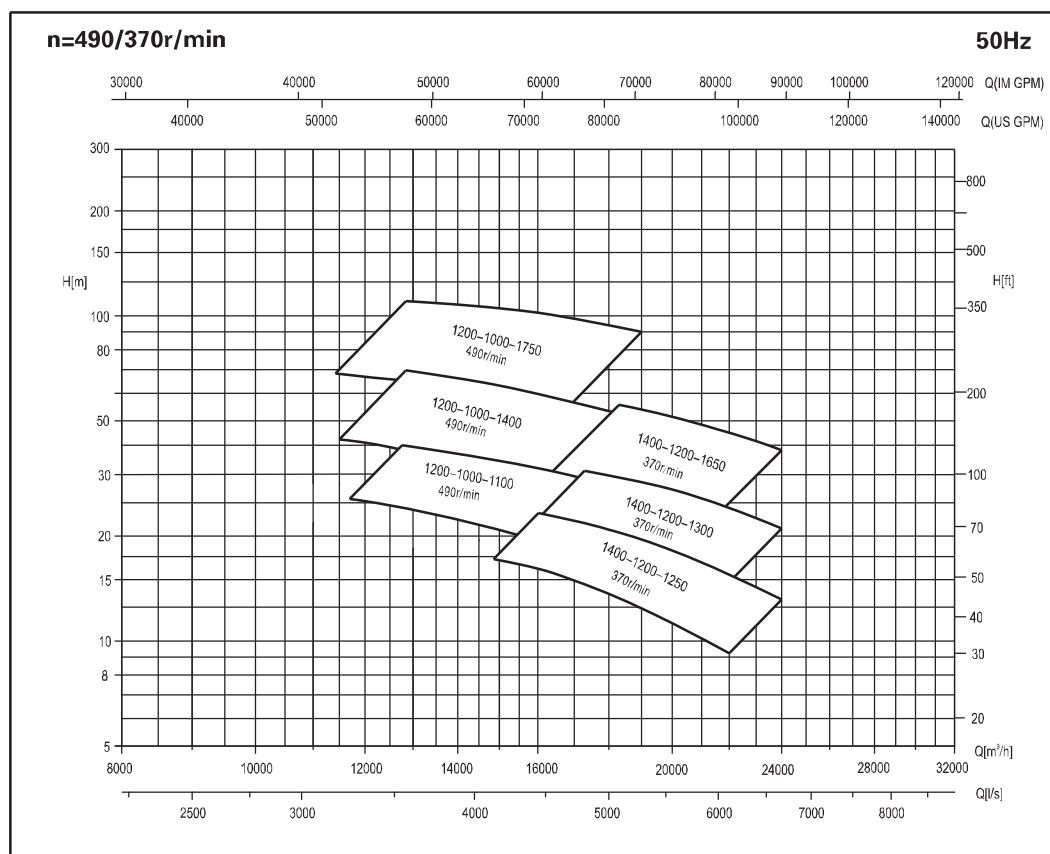
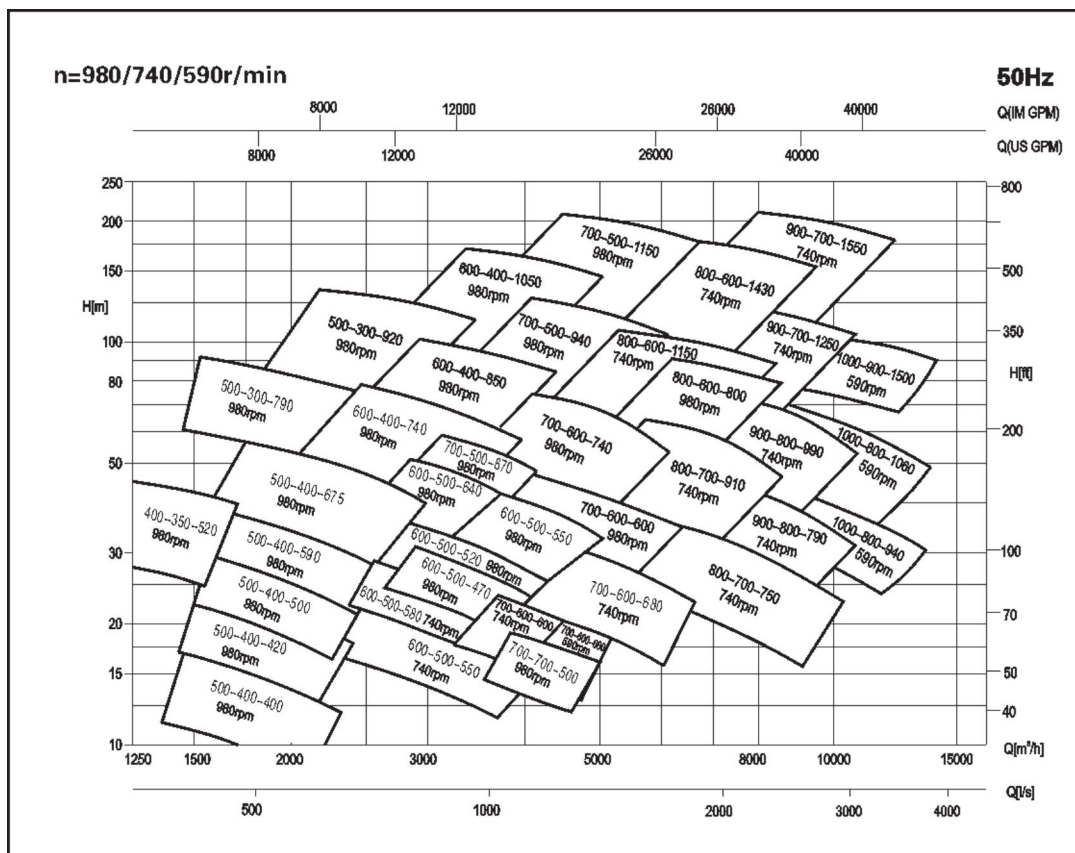
Bearing with water cooling(Pumping higher temp. liquid)



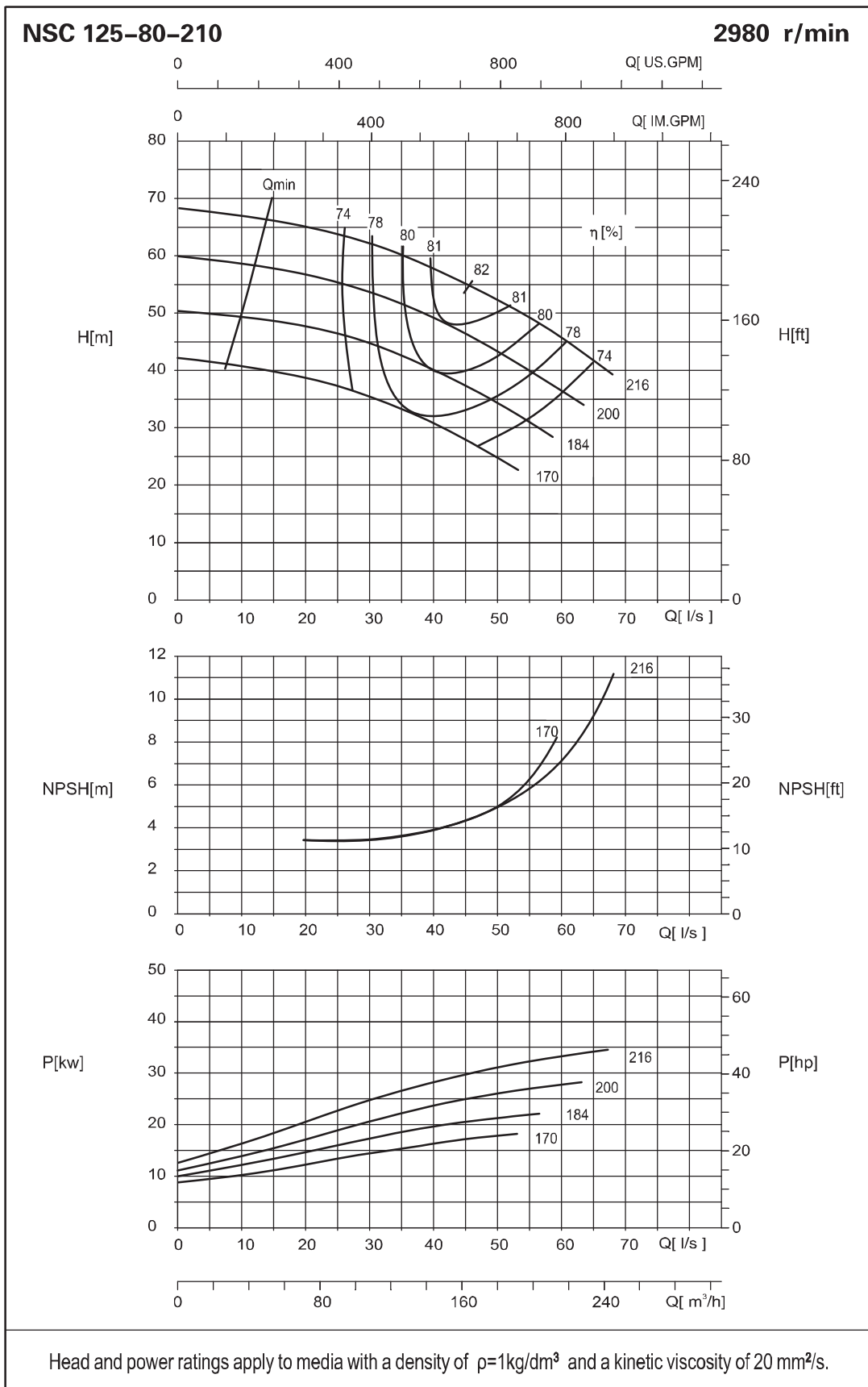
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
02.01.002	Hex bolts	02.12.002	Felt ring	02.03.004	Round nut	04.02.017	Bearing circlip
04.02.024	Bearing outer cover(DE)	02.08.001	Deep groove ball bearing	02.05.001	Shaft Circlip	04.02.008	Bearing housing (NDE)
04.02.025	Bearing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

Performance Range



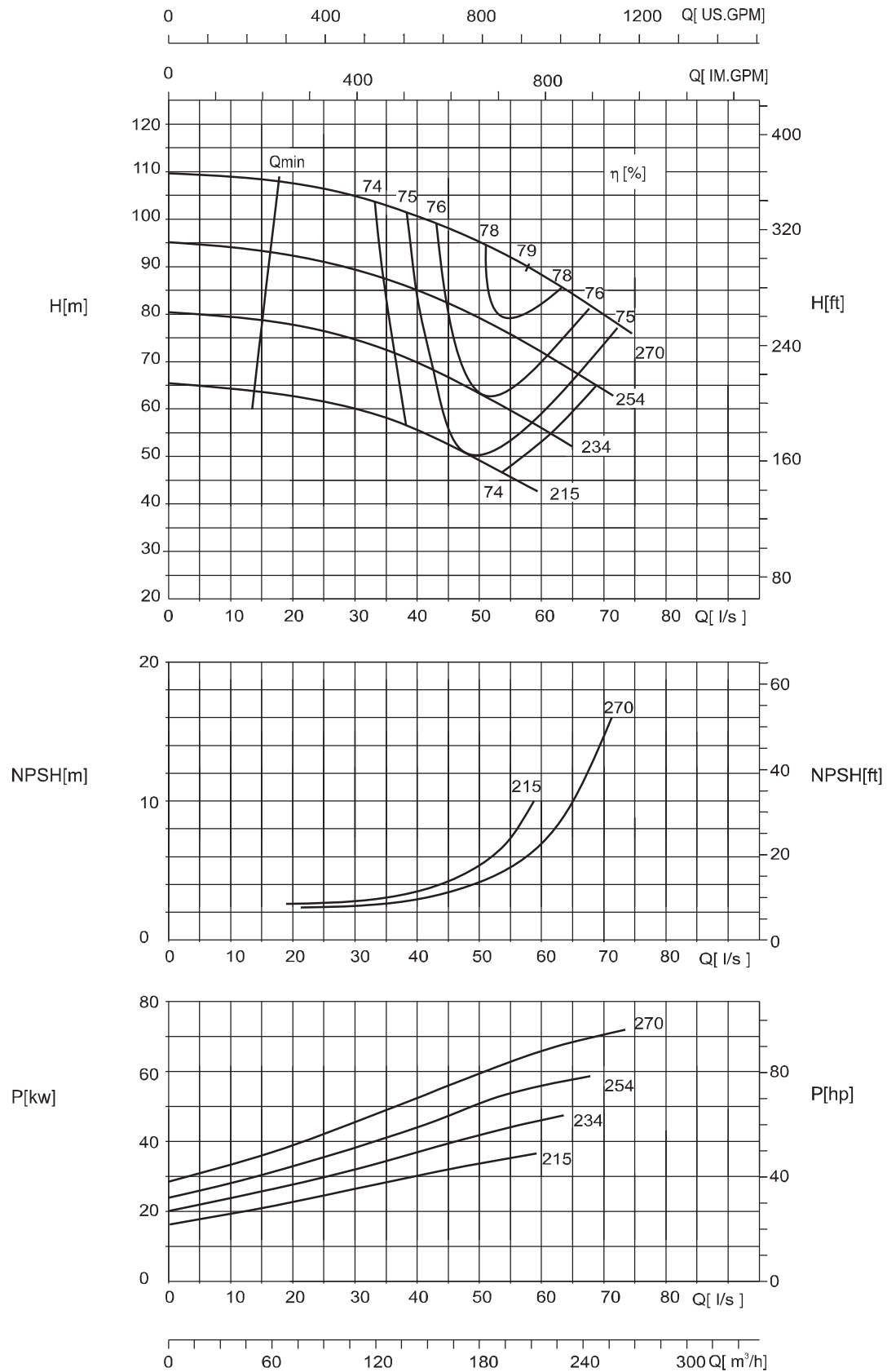


Performance Curve



NSC 125-80-270

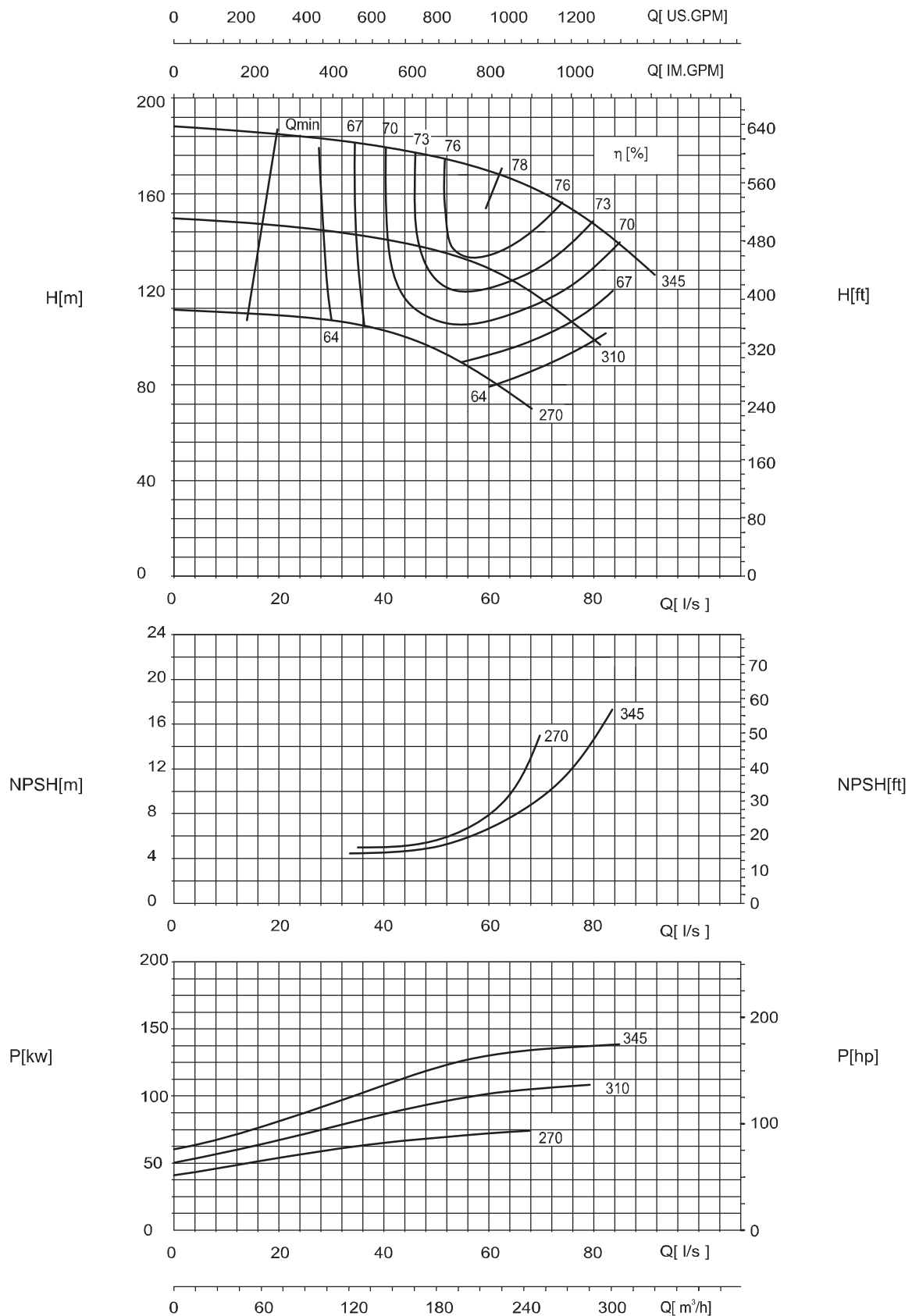
2980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 125-80-350

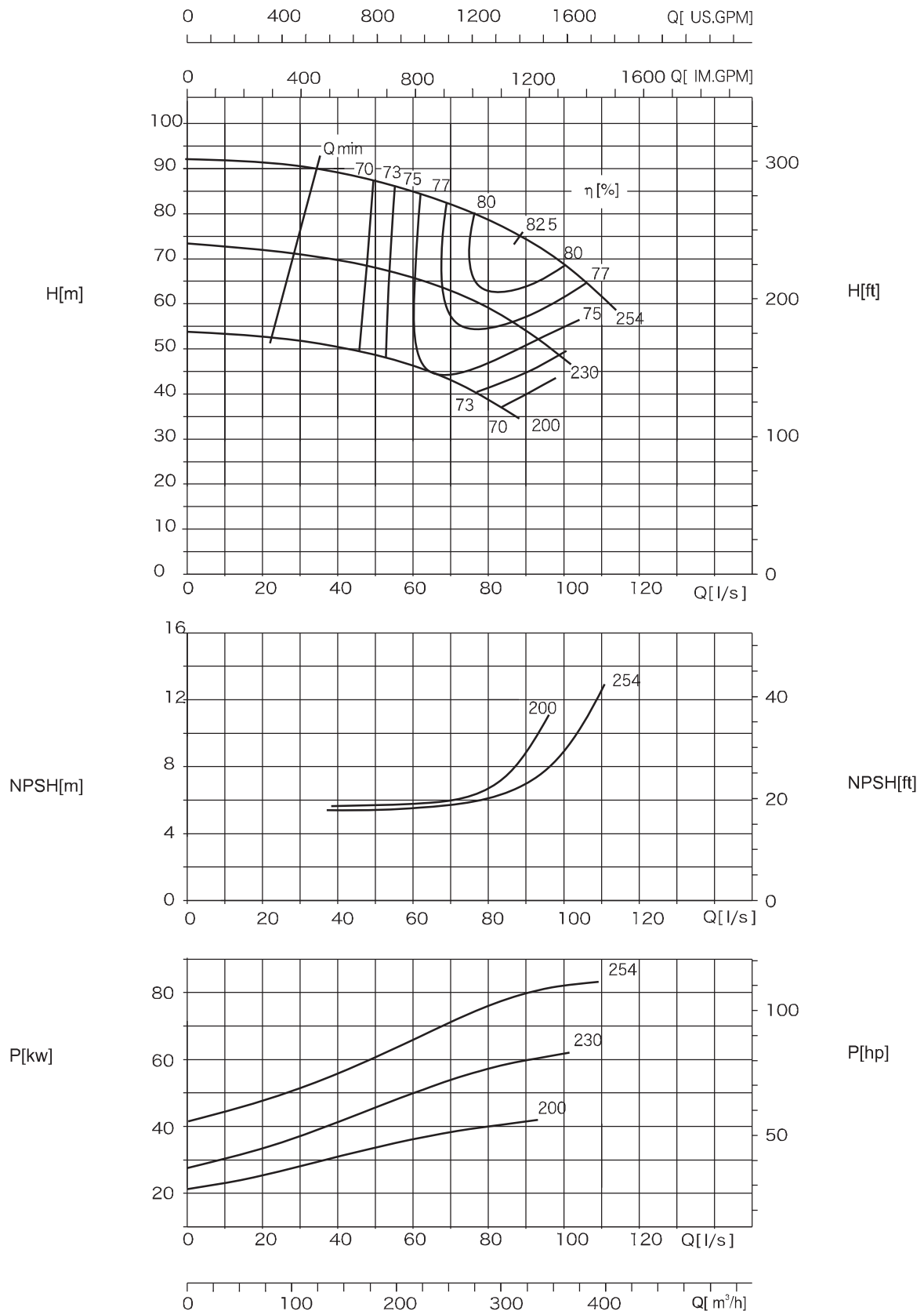
2980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 150-100-250

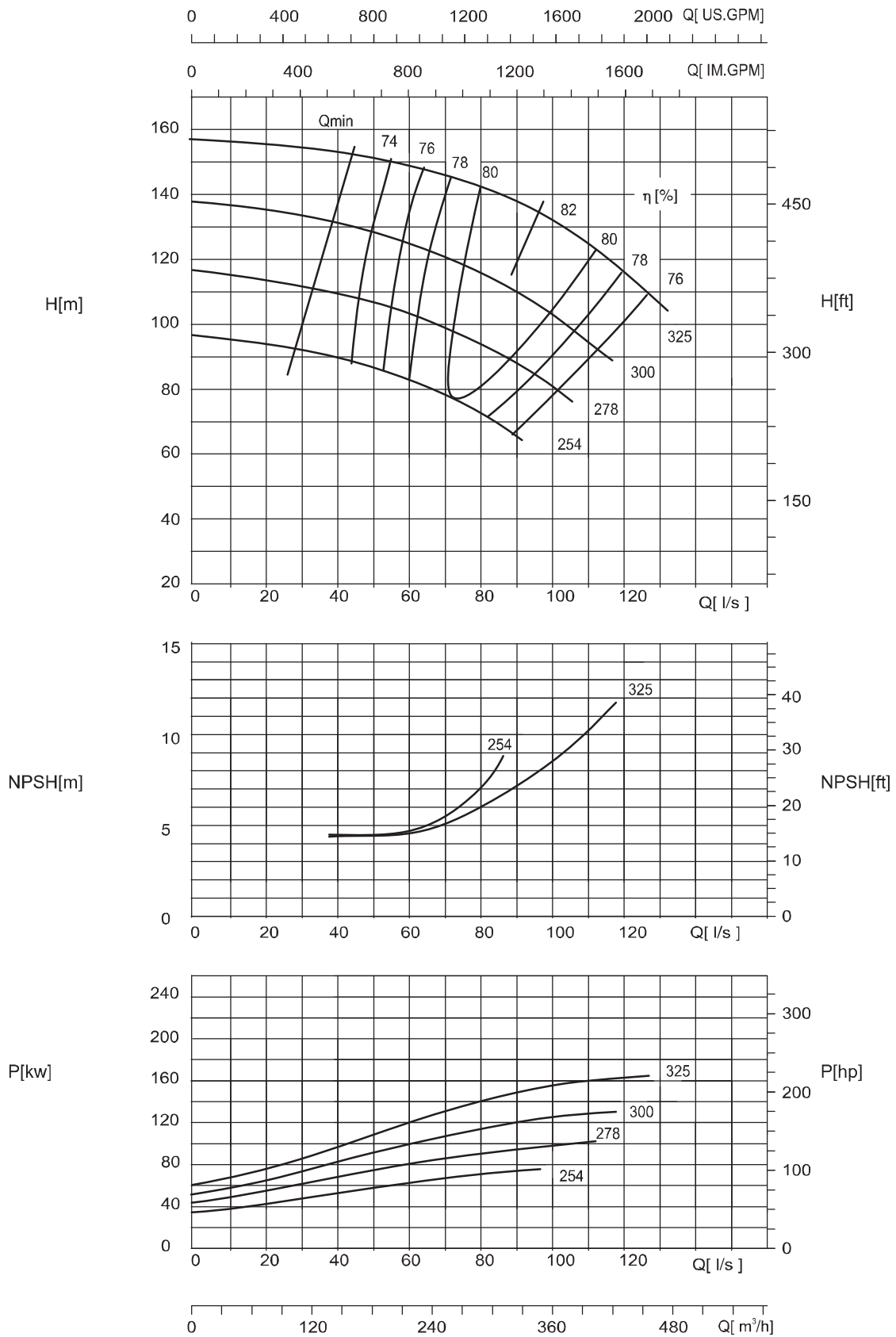
2980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 150-100-320

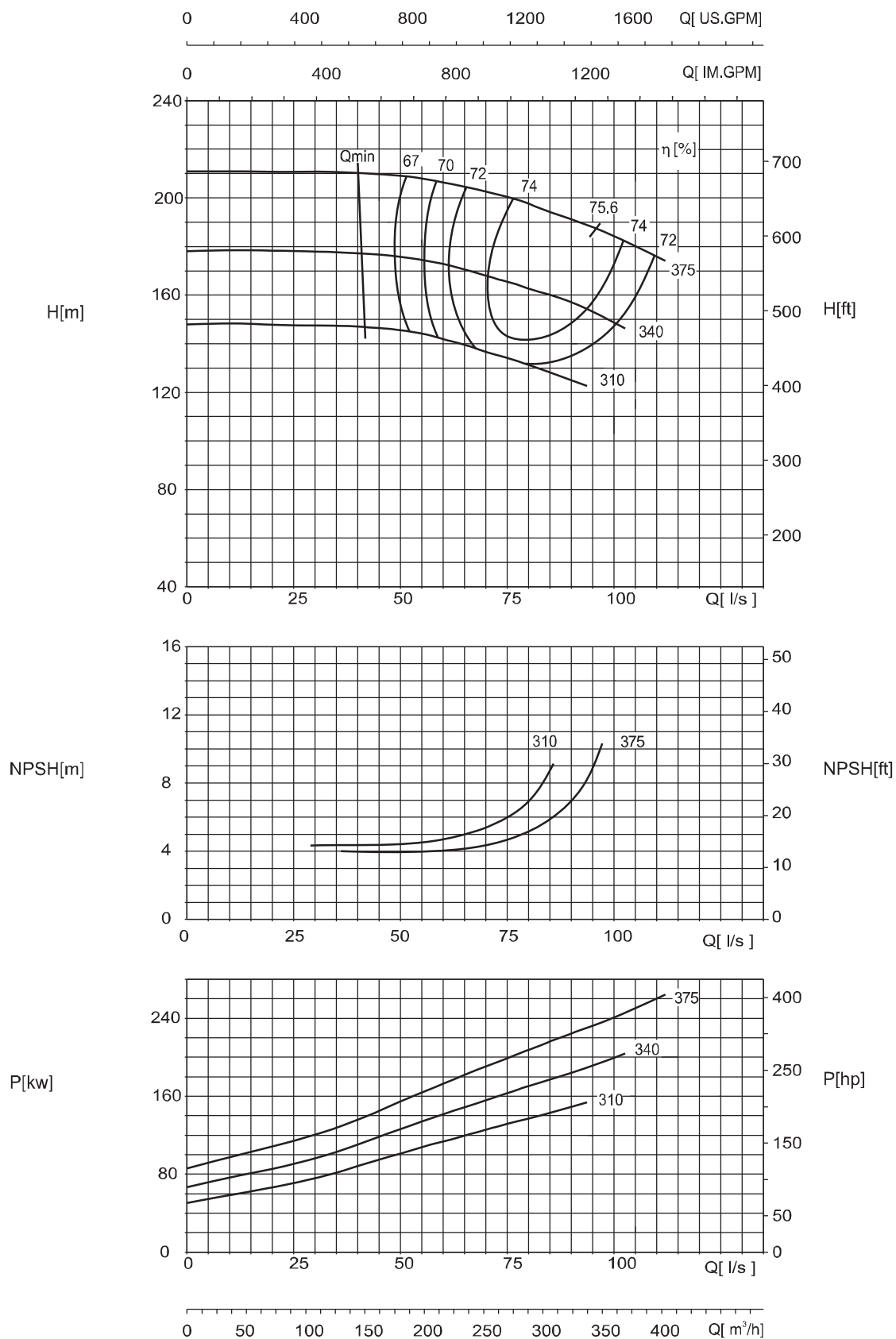
2980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 150-100-400G

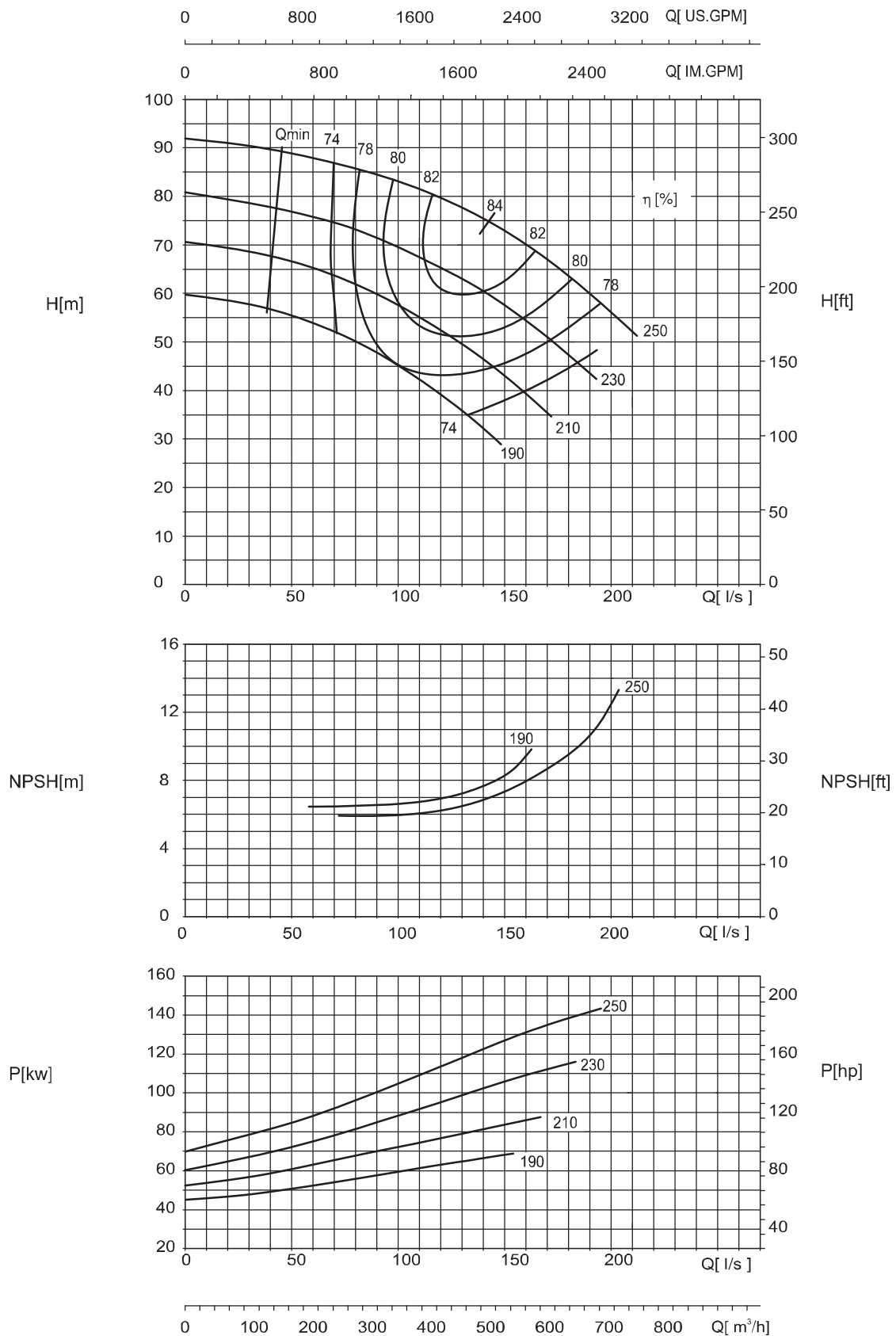
2980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-125-240

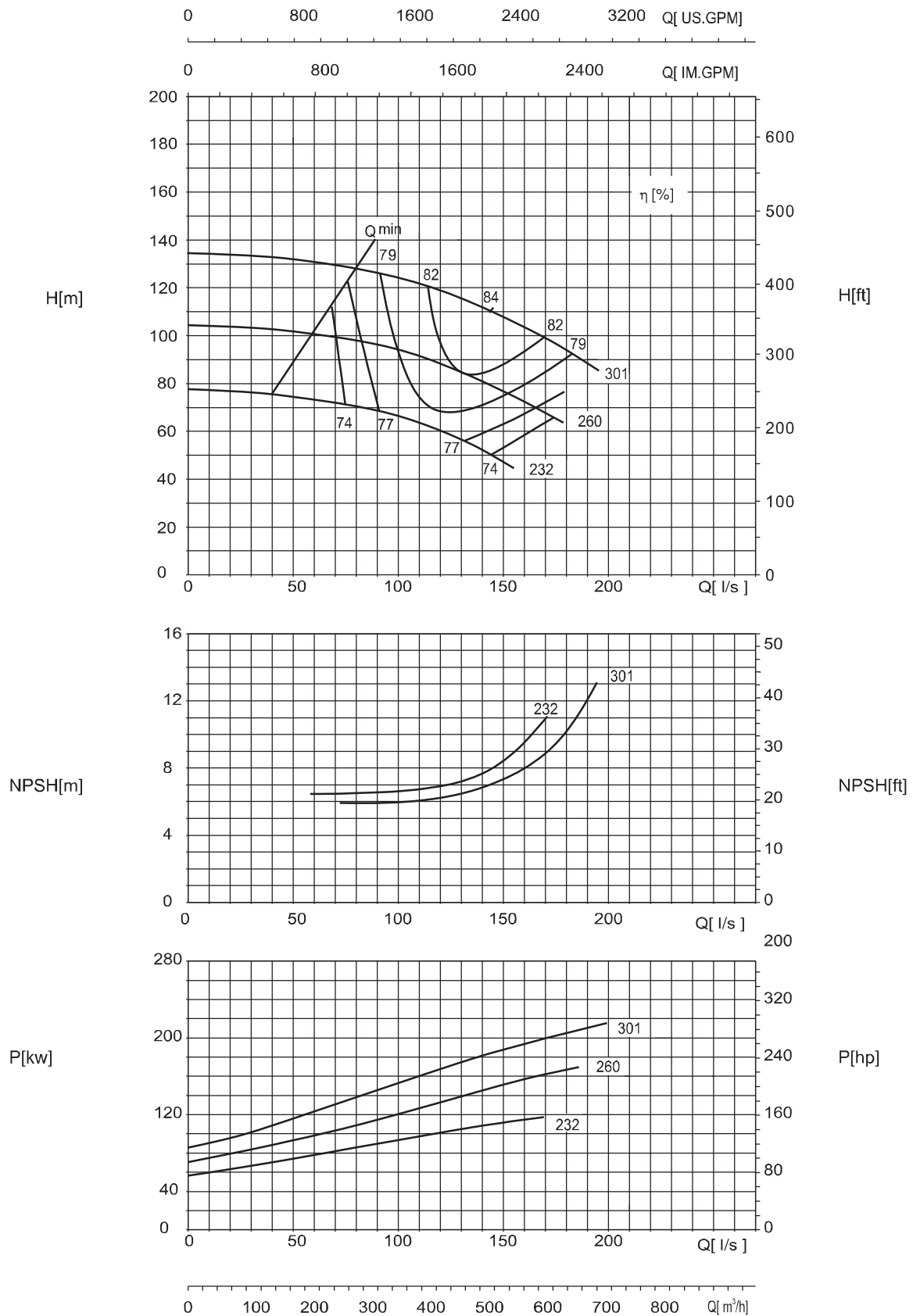
2980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-125-300

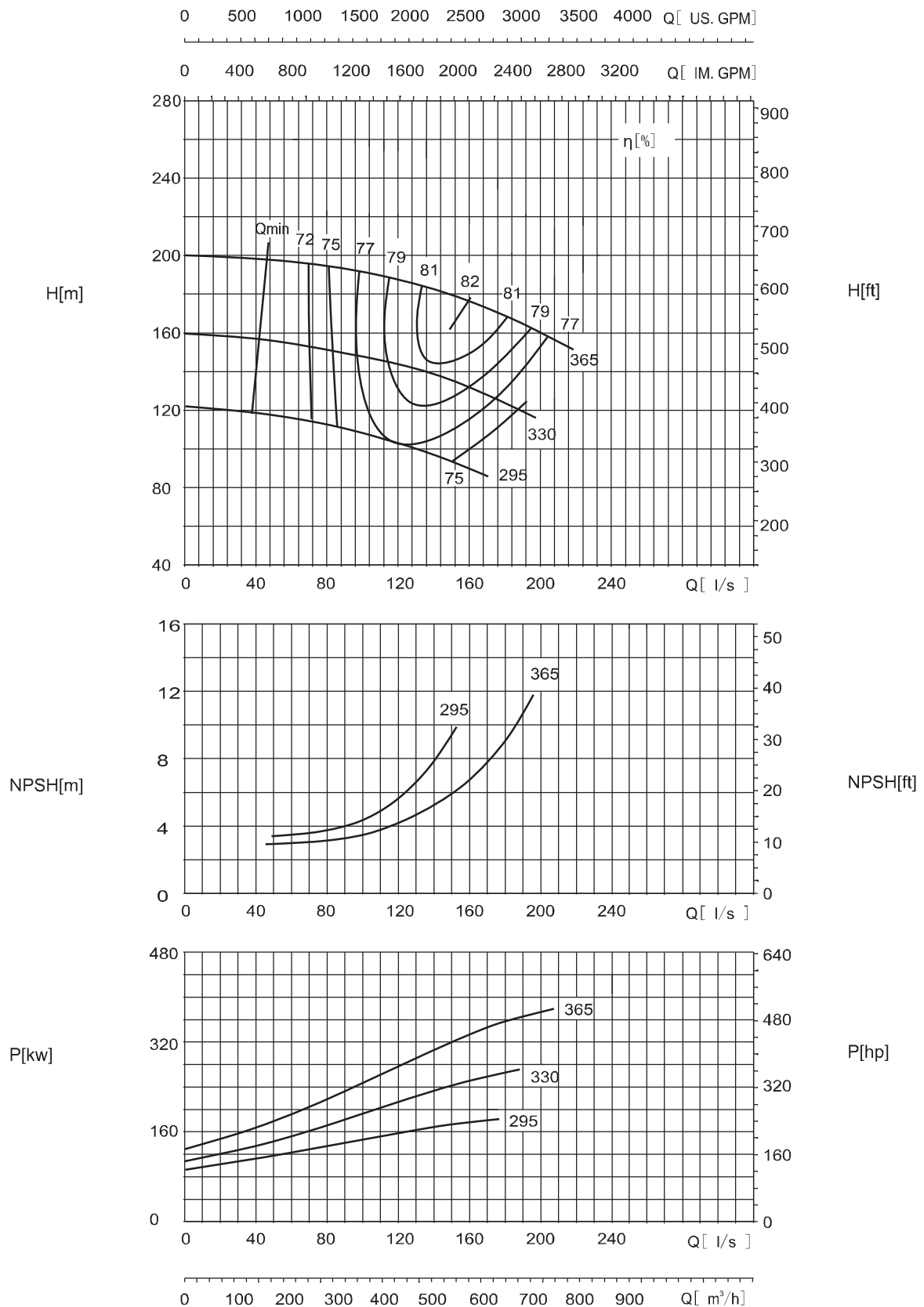
2980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-125-380

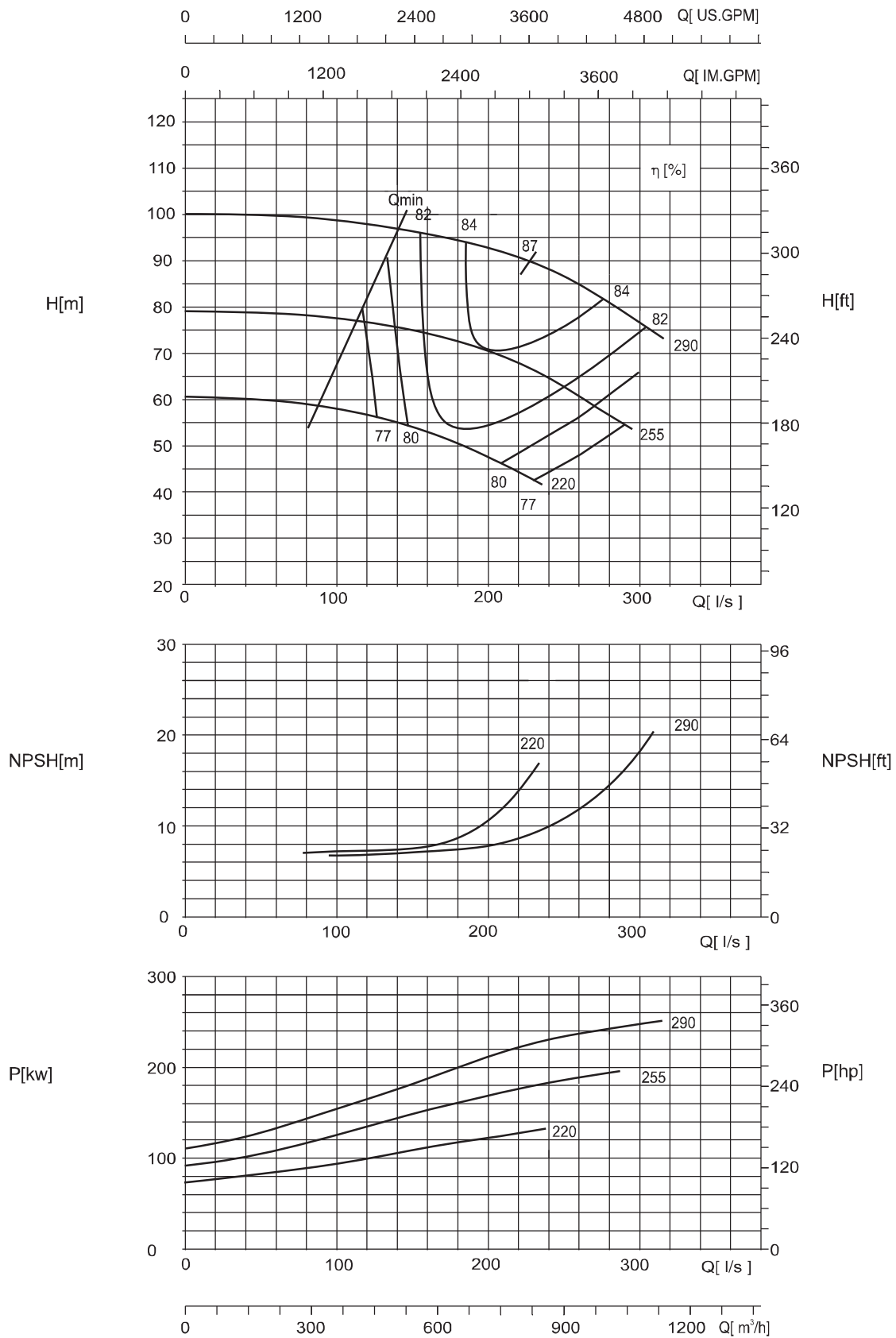
2980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-150-290

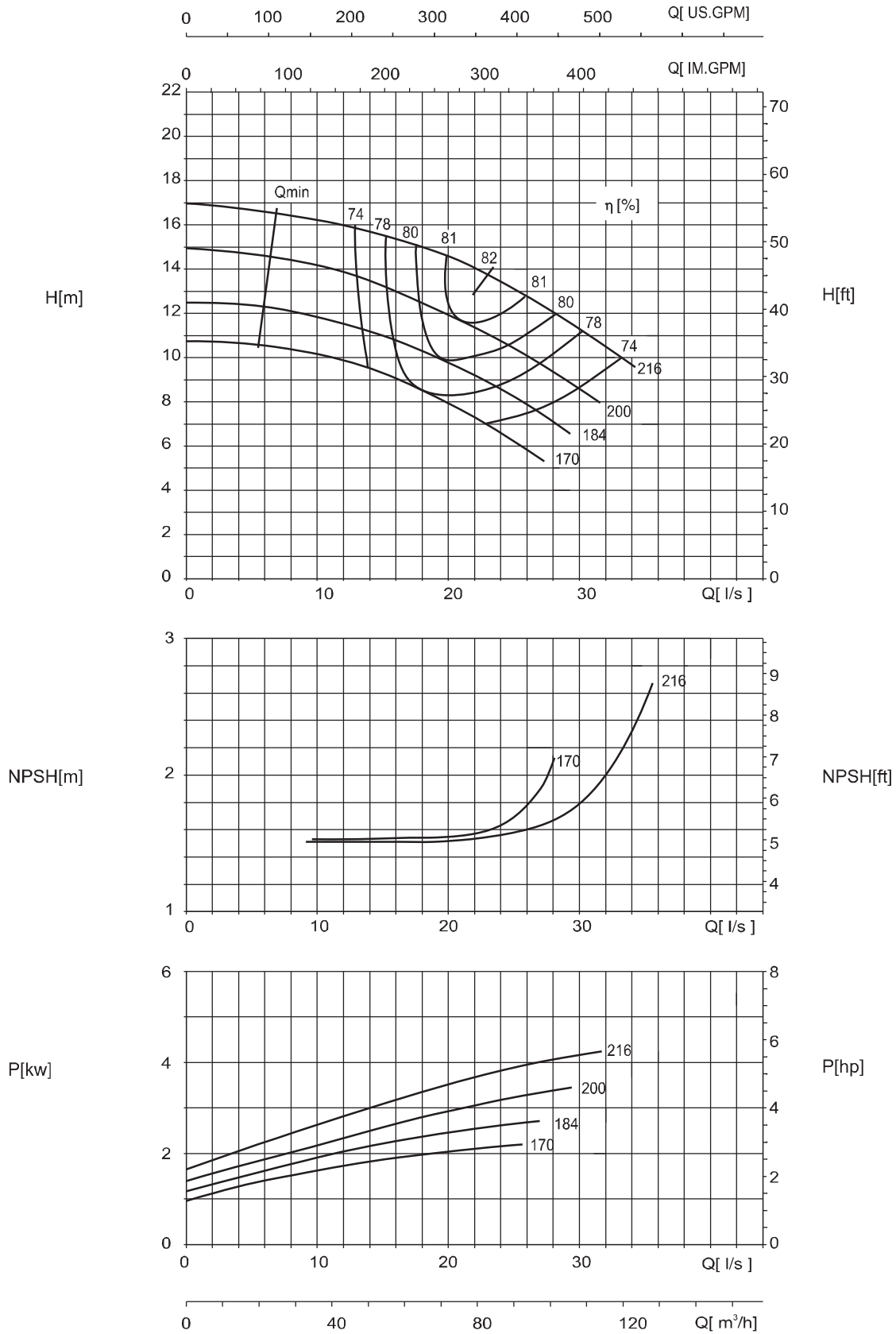
2980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 125-80-210

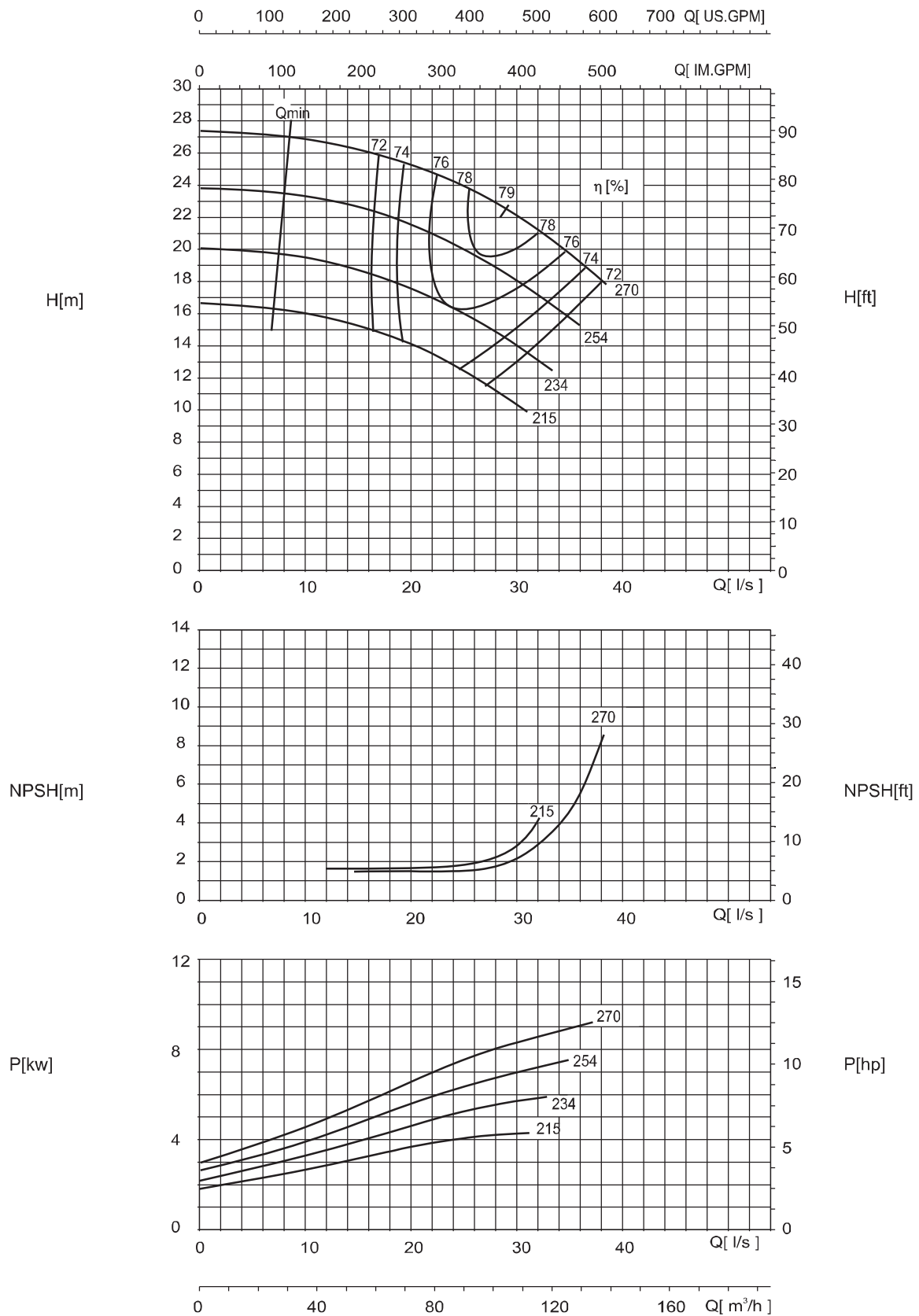
1470 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 125-80-270

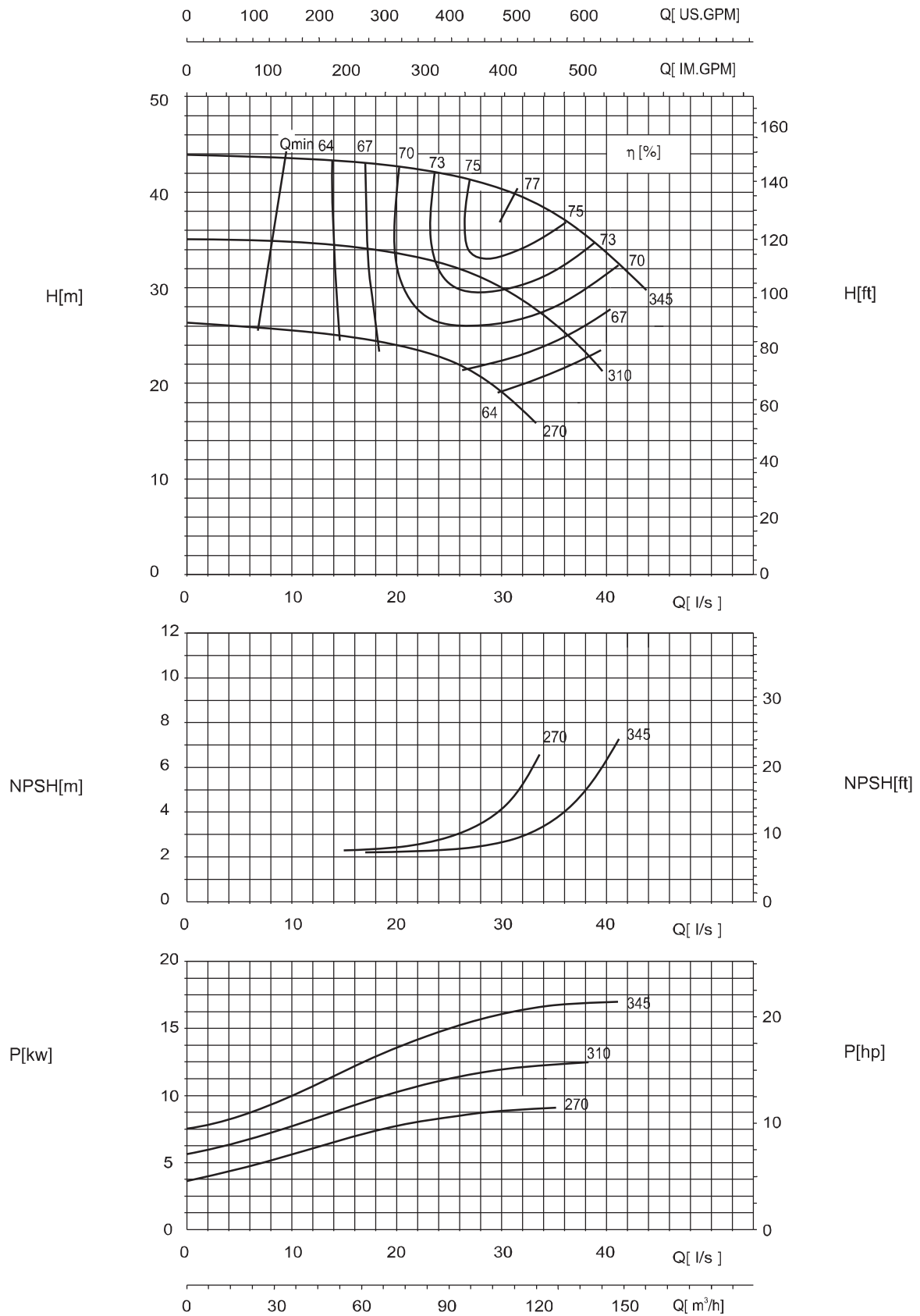
1470 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 125-80-350

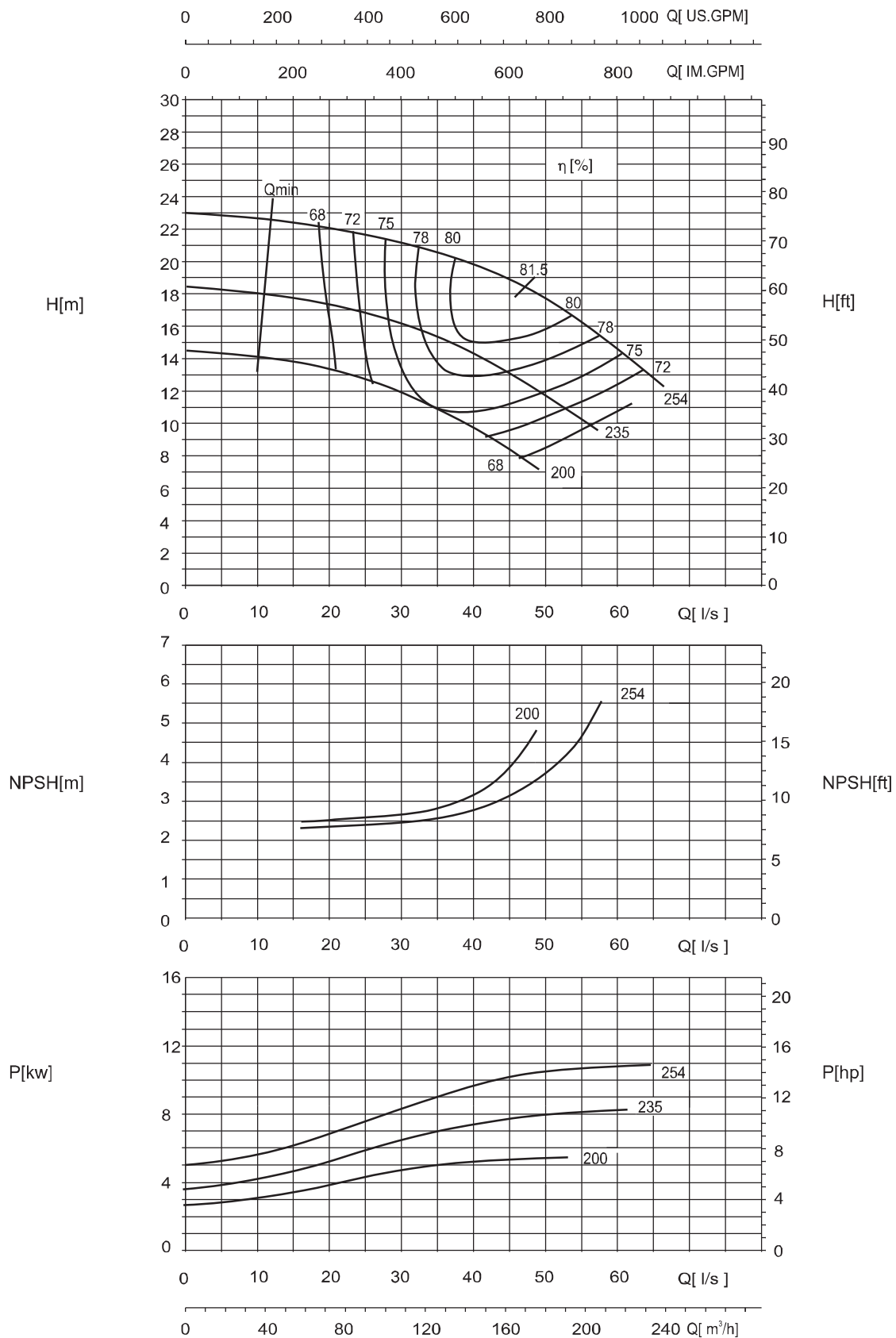
1470 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 150-100-250

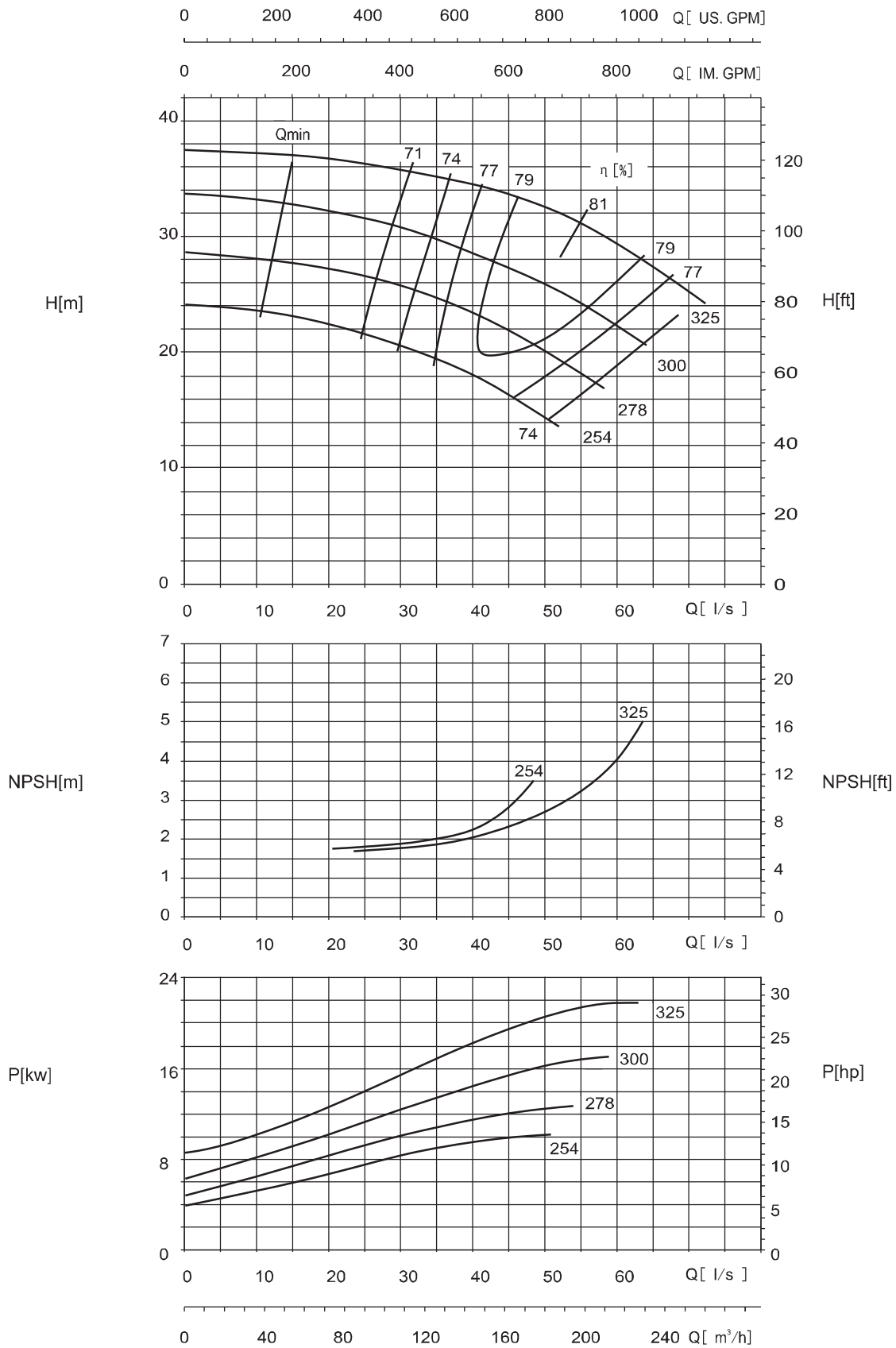
1470 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 150-100-320

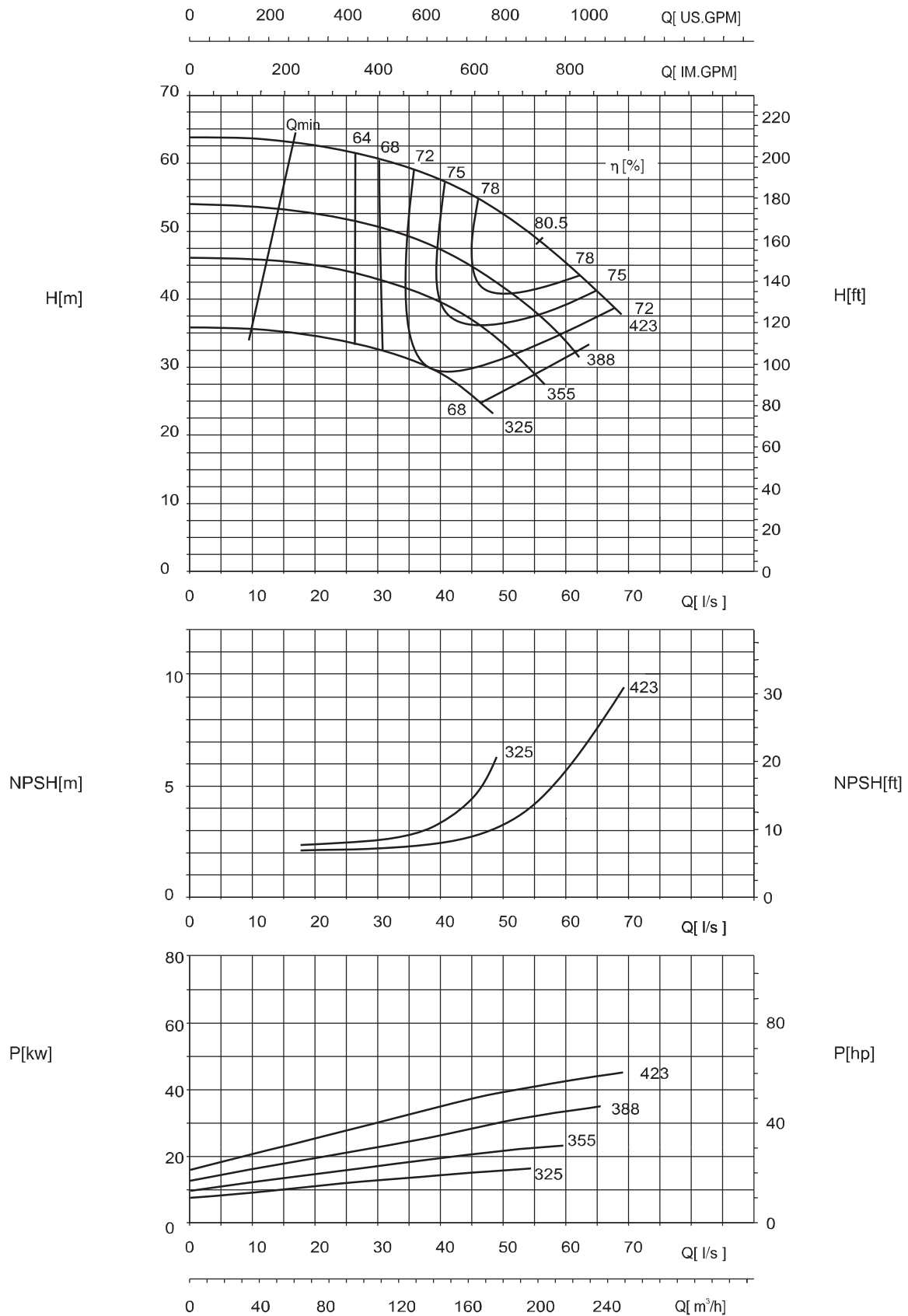
1470 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 150-100-400

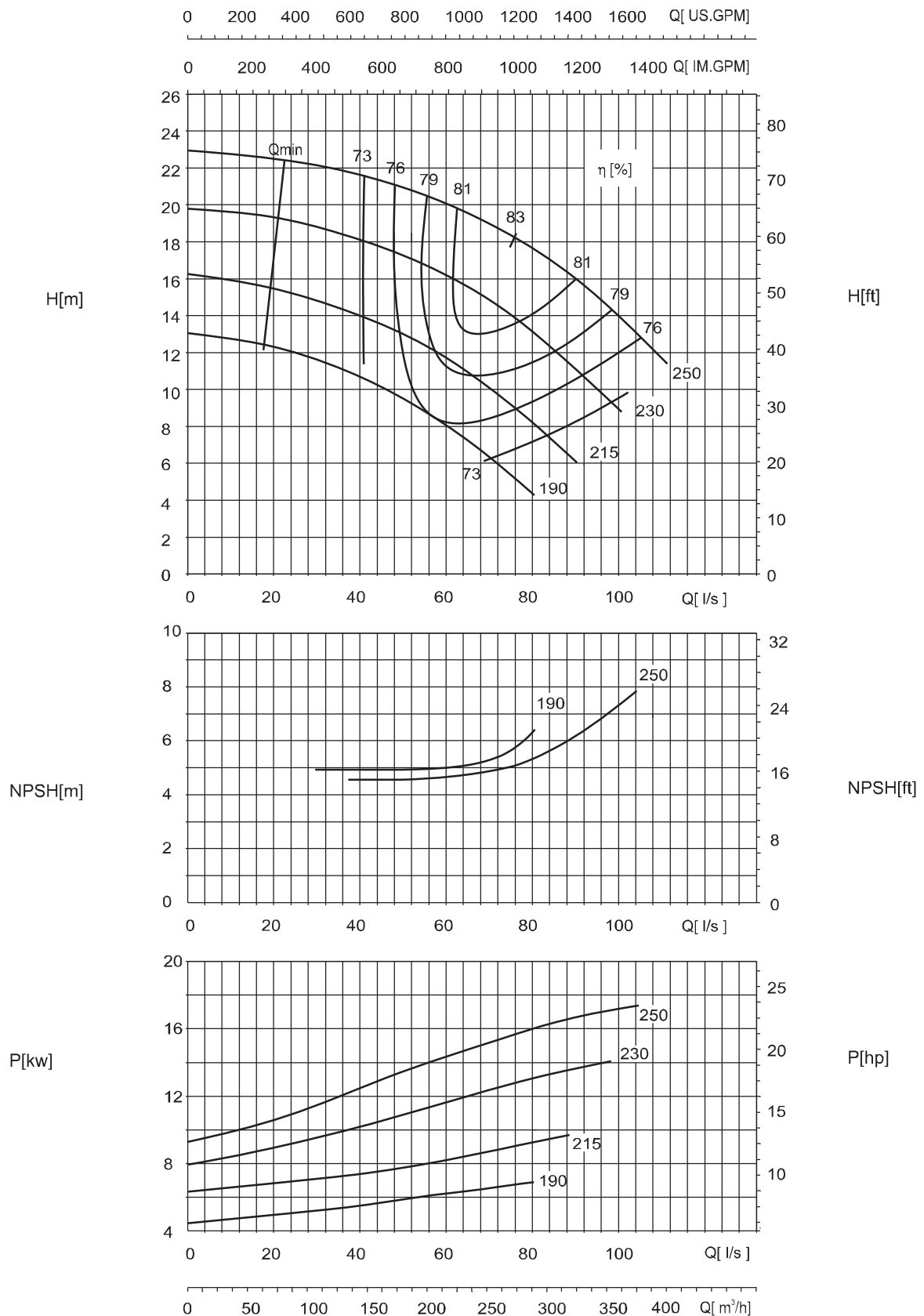
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-125-240

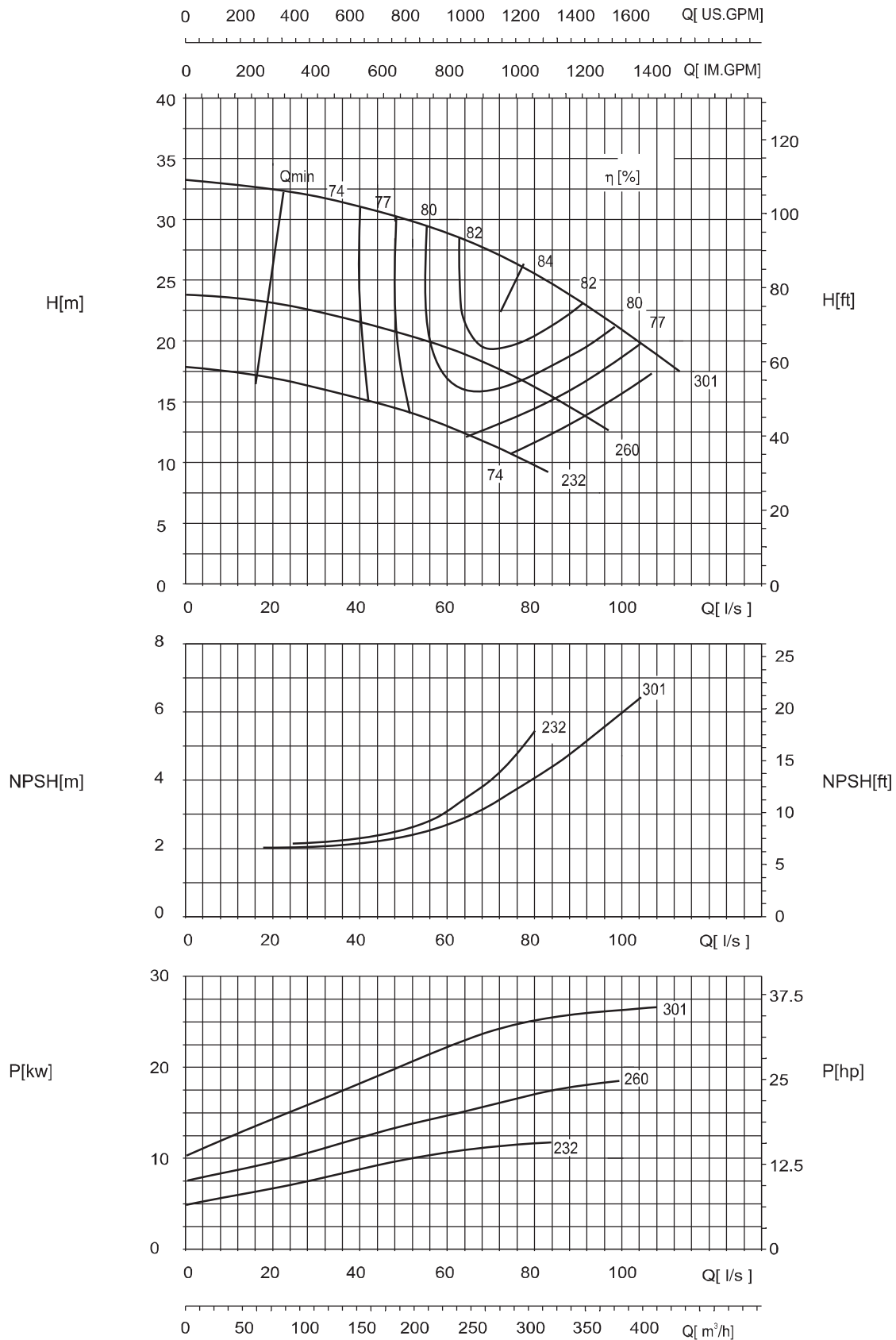
1470 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-125-300

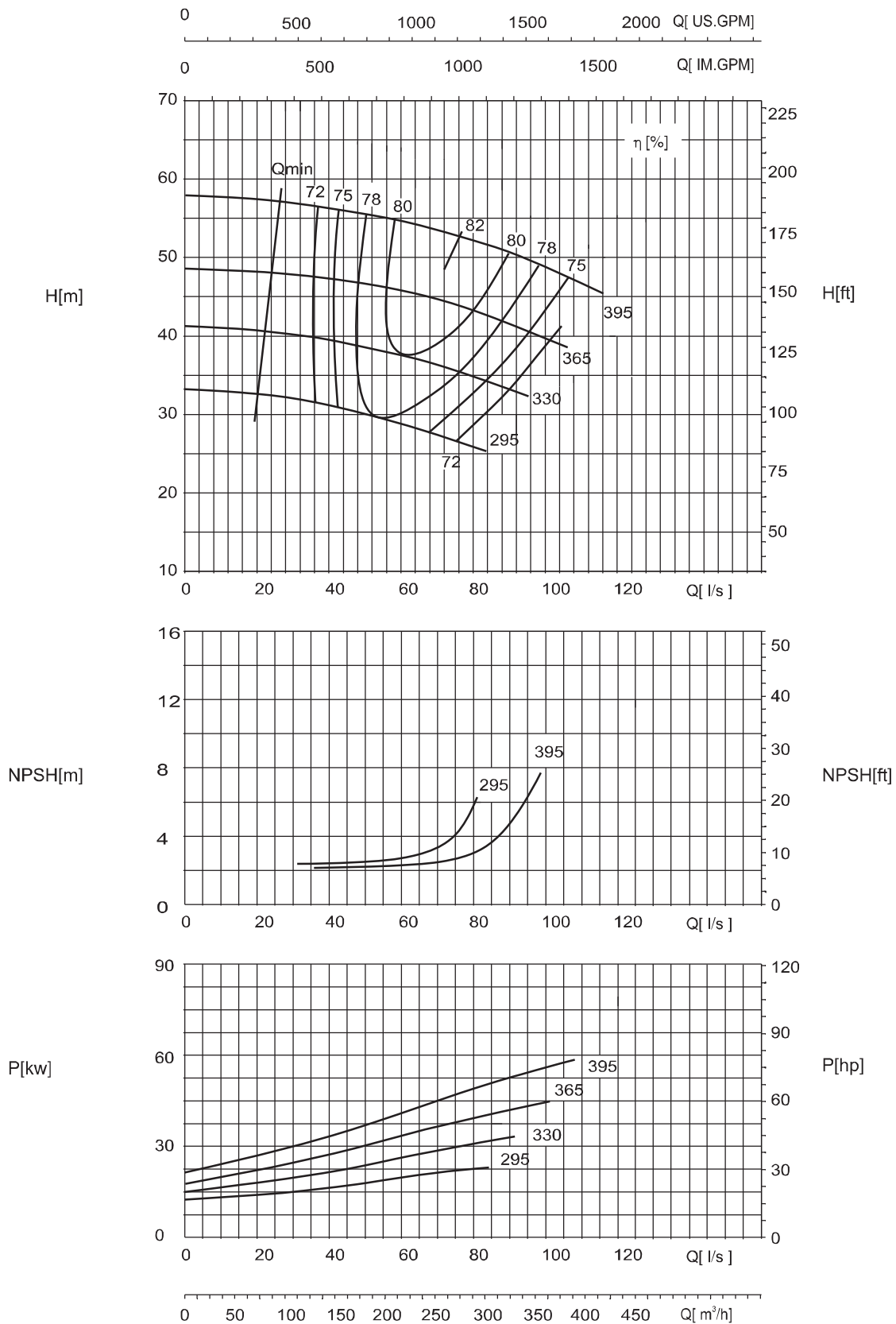
1470 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-125-380

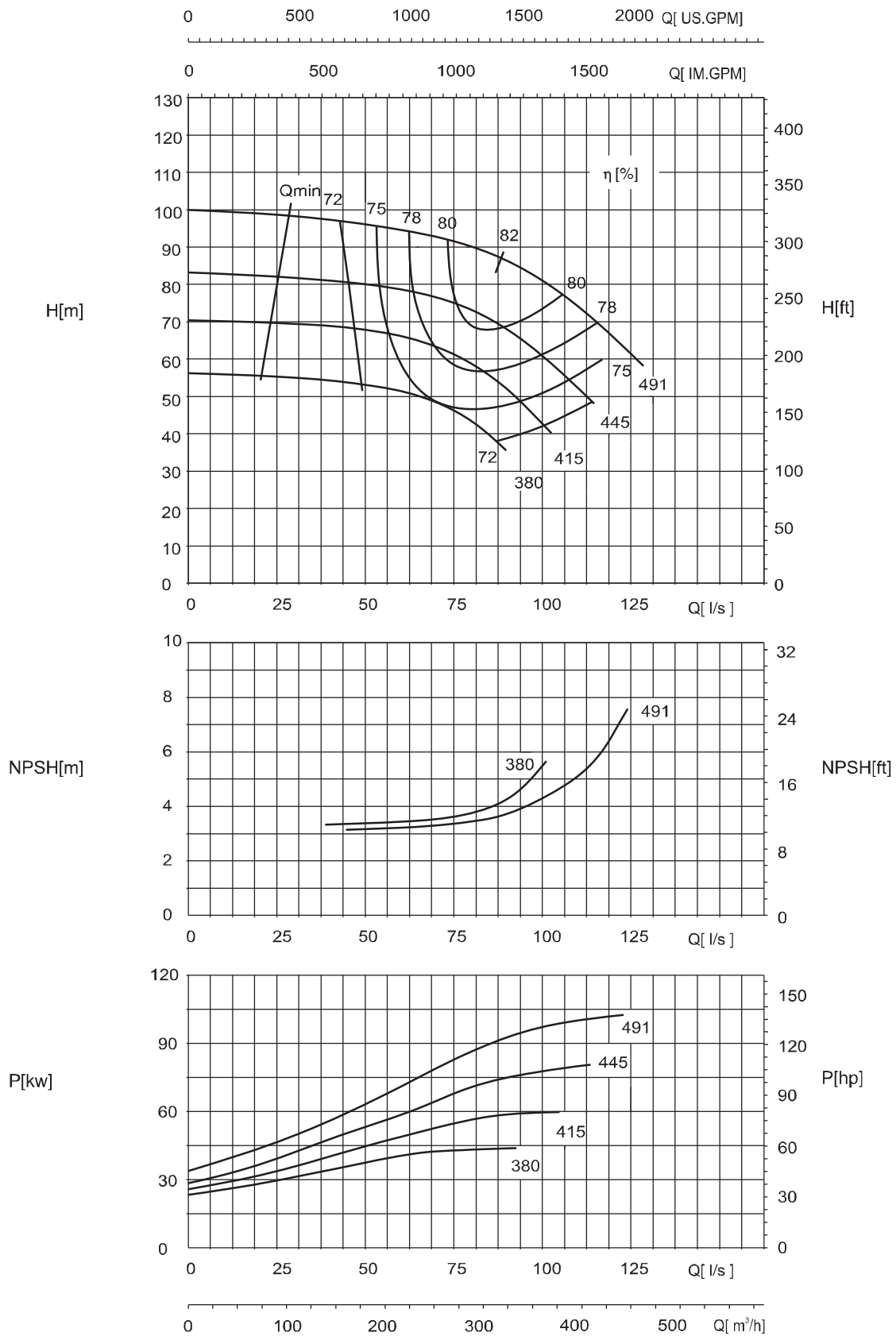
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-125-480

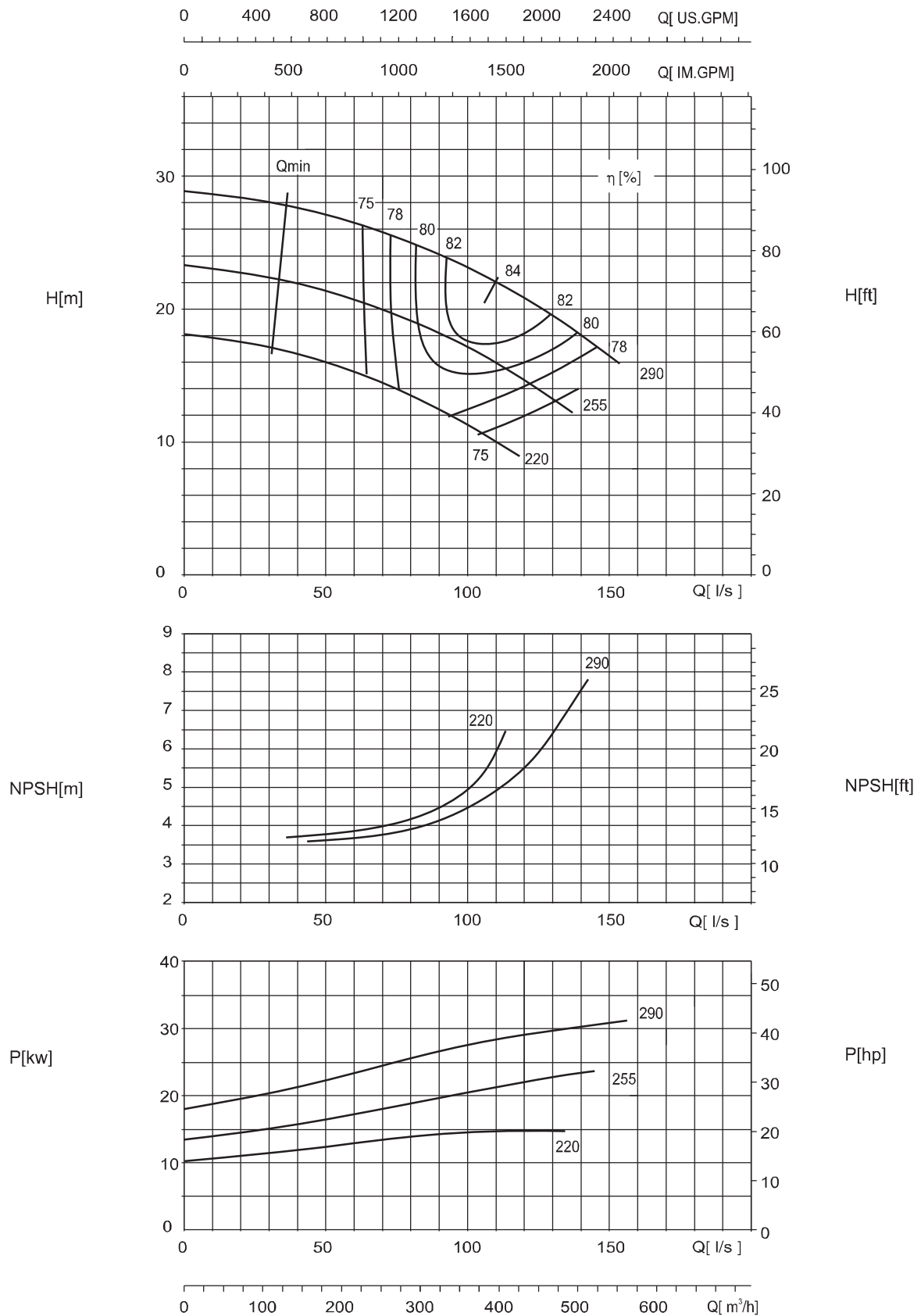
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-150-290

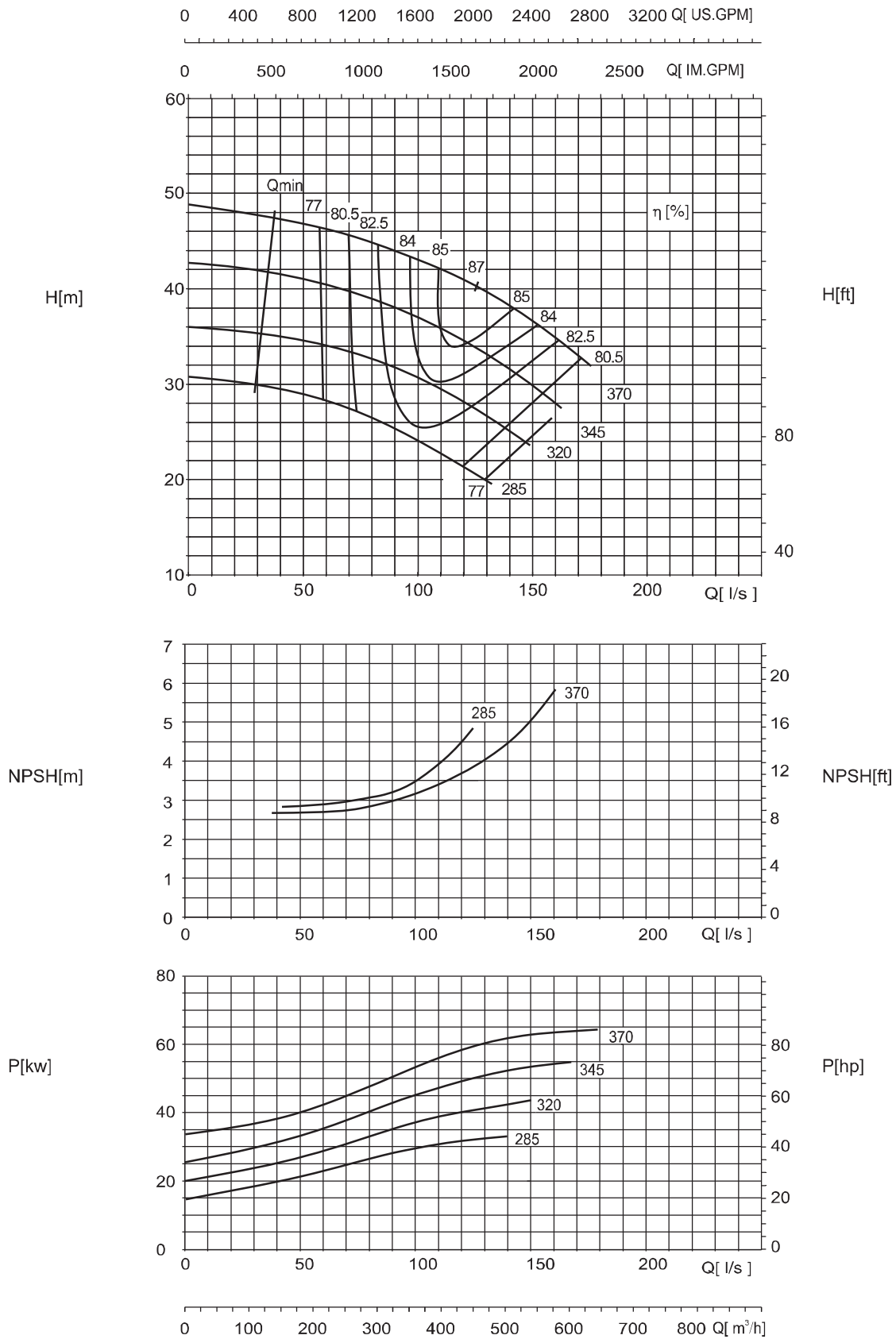
1470 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-150-360

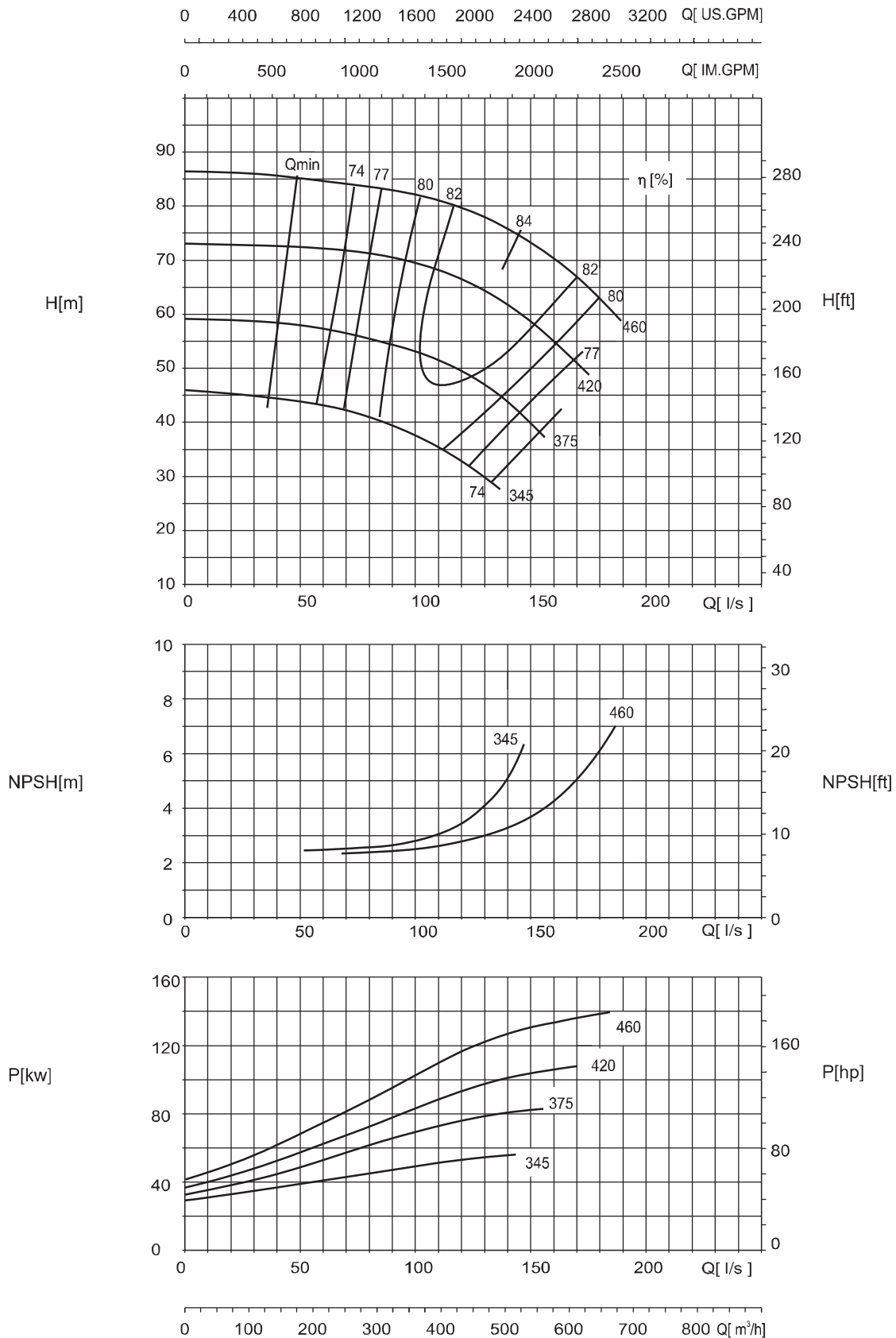
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-150-460

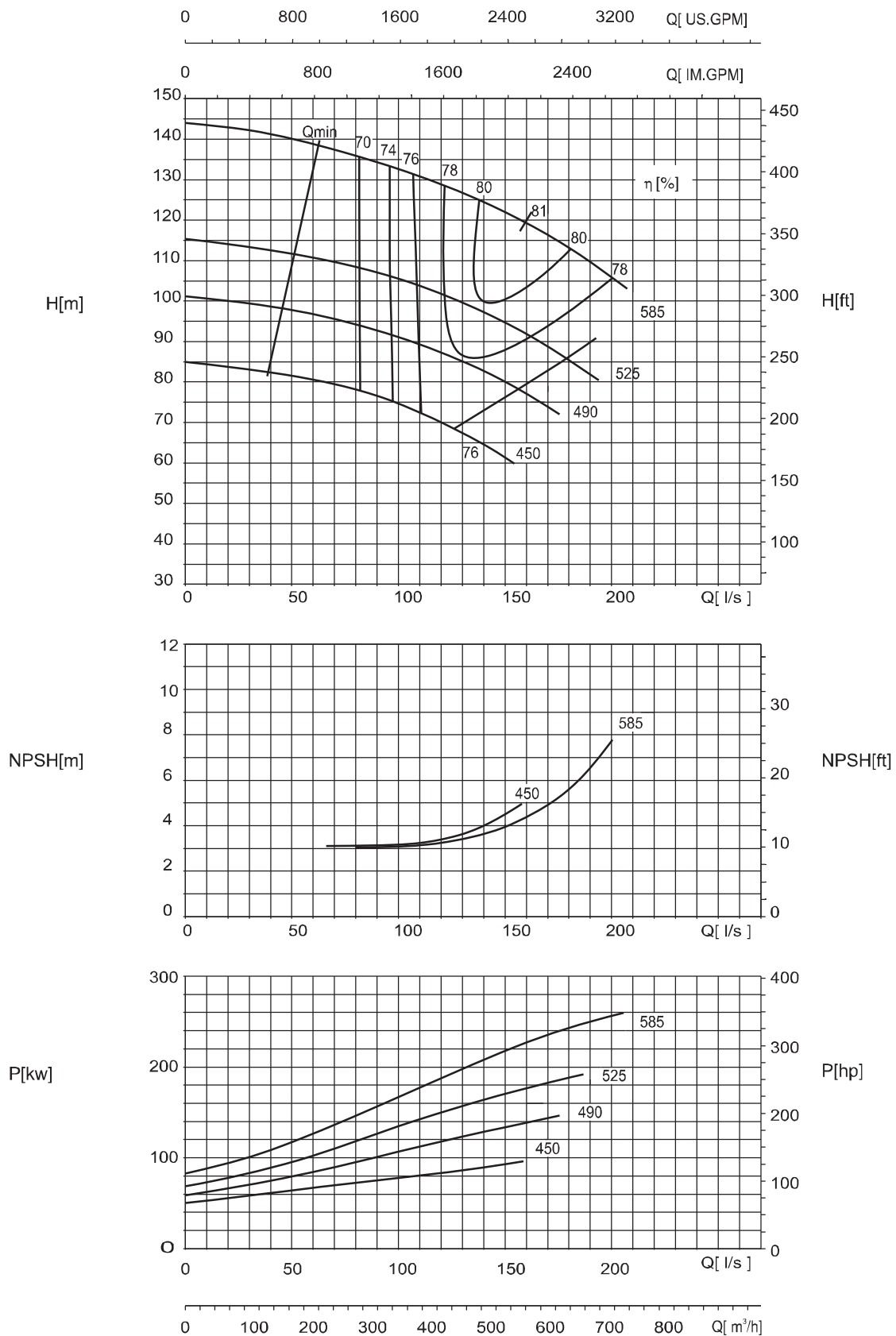
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 200-150-570

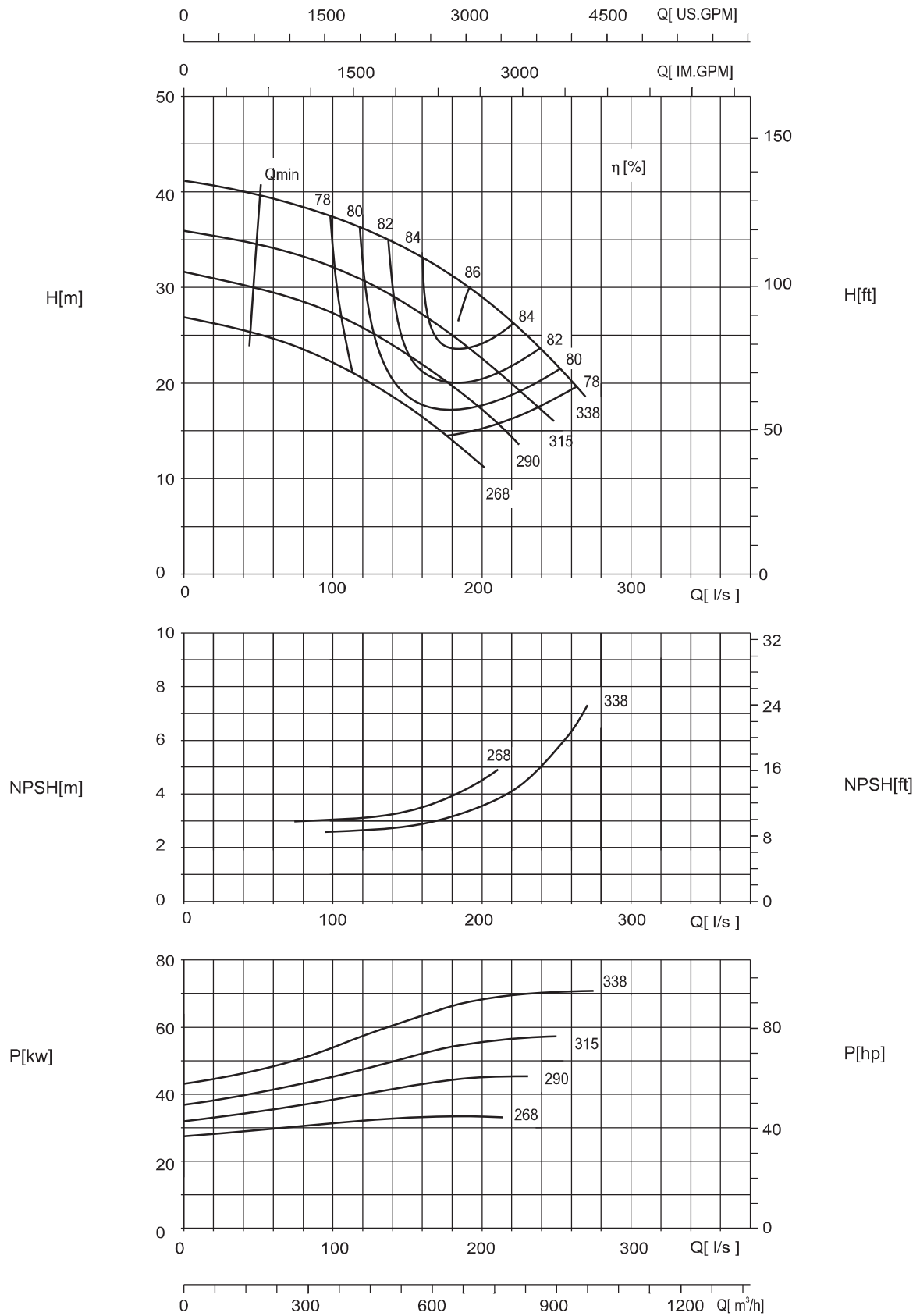
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC250-200-340

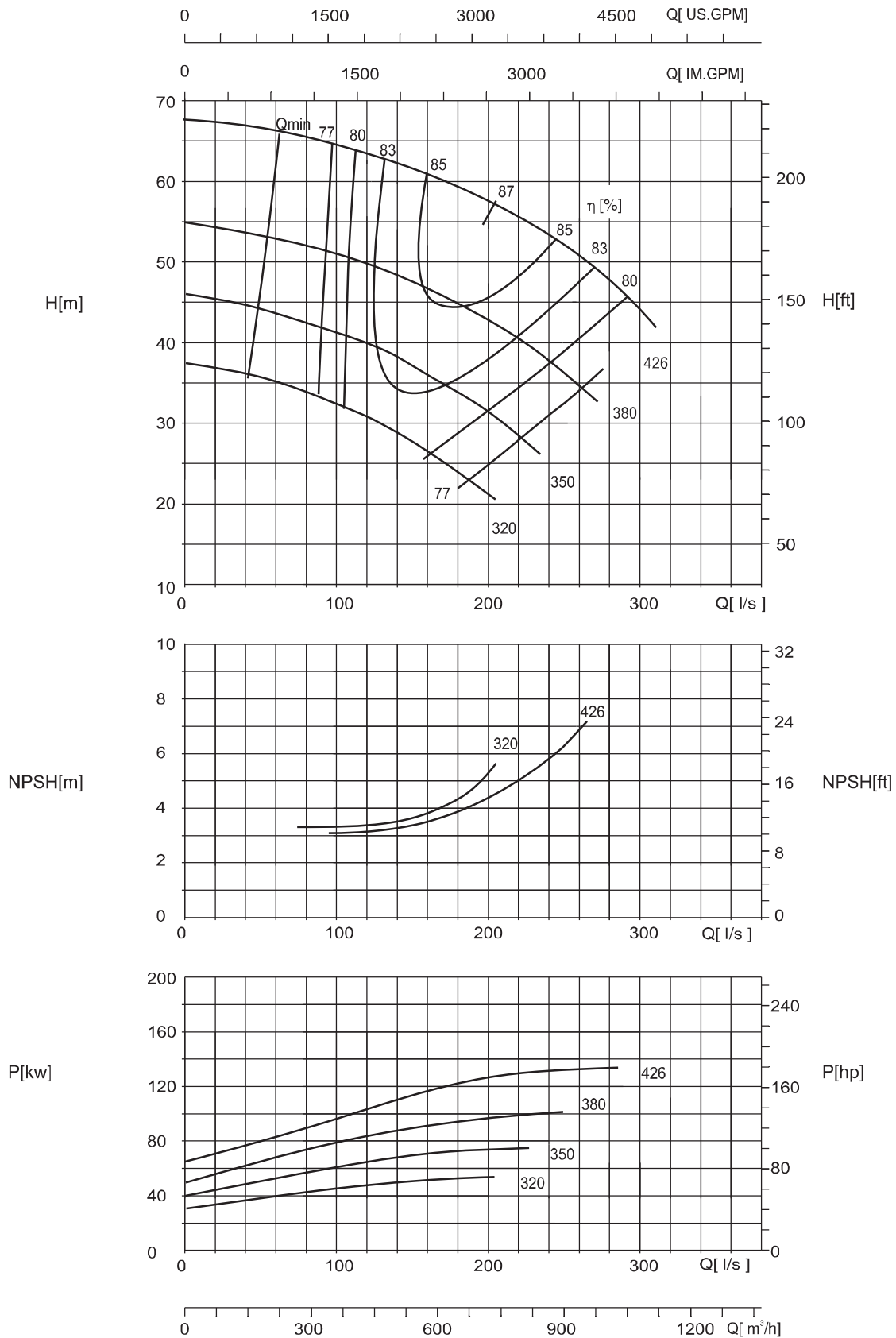
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 250-200-430

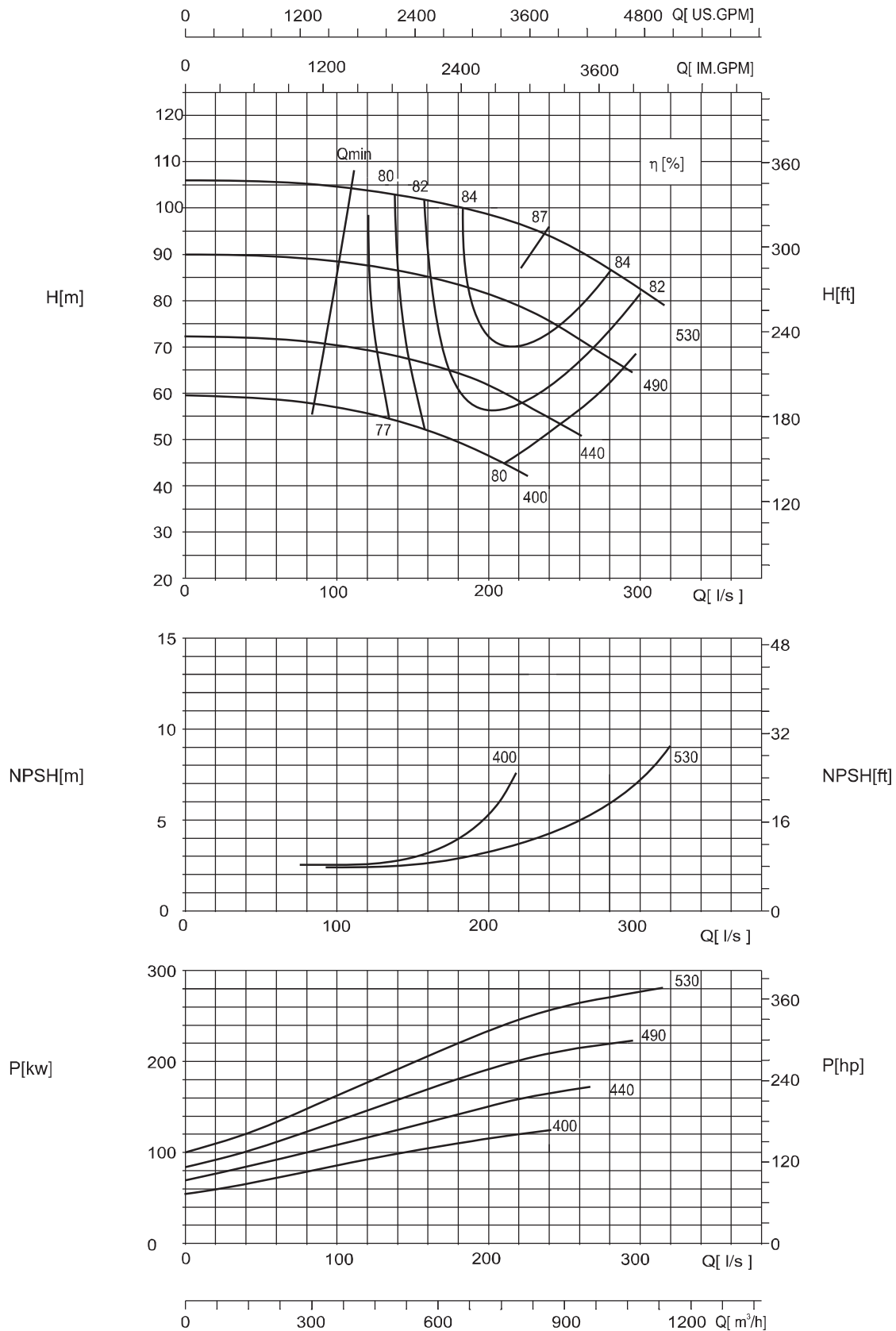
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 250-200-530

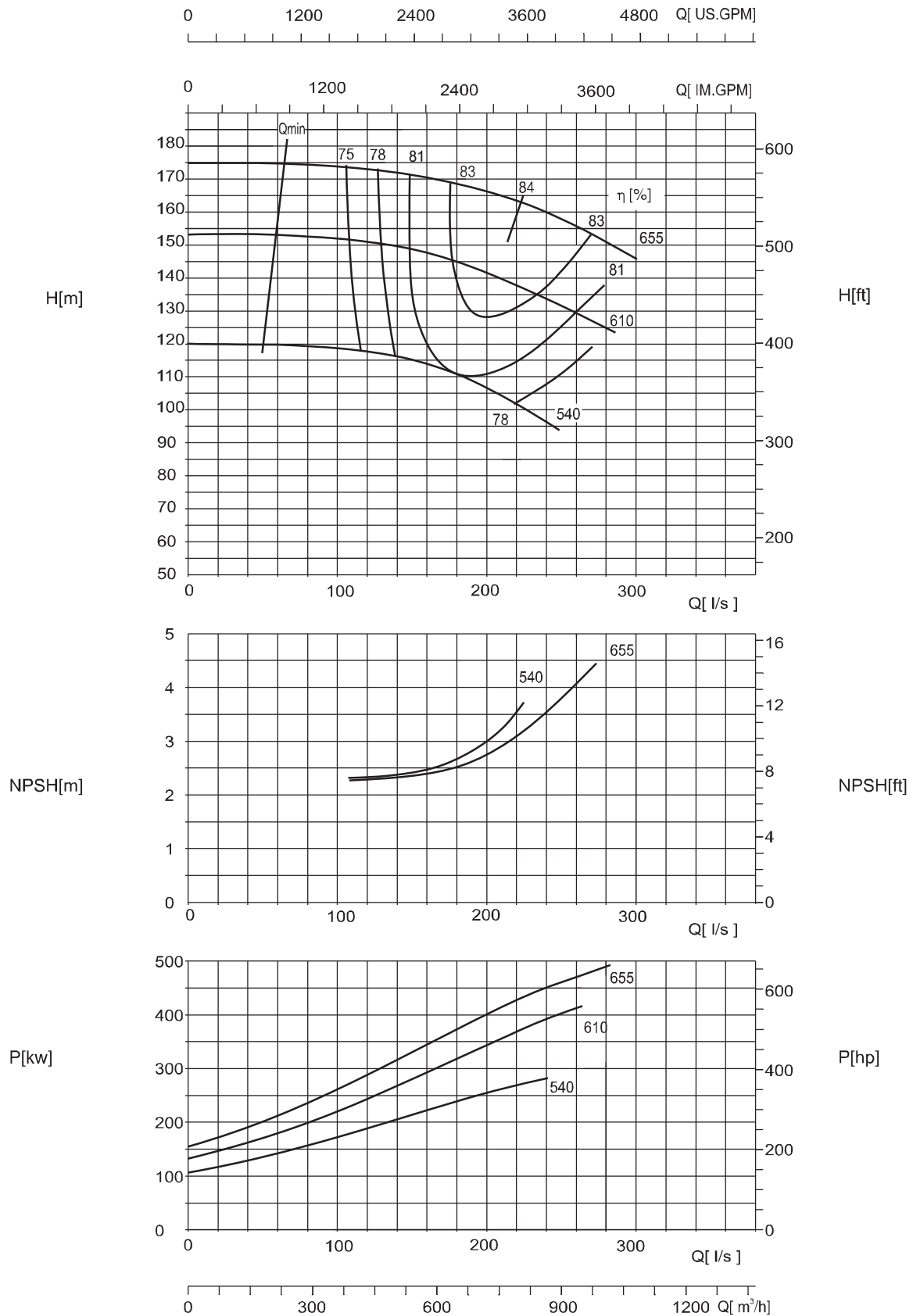
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 250-200-660

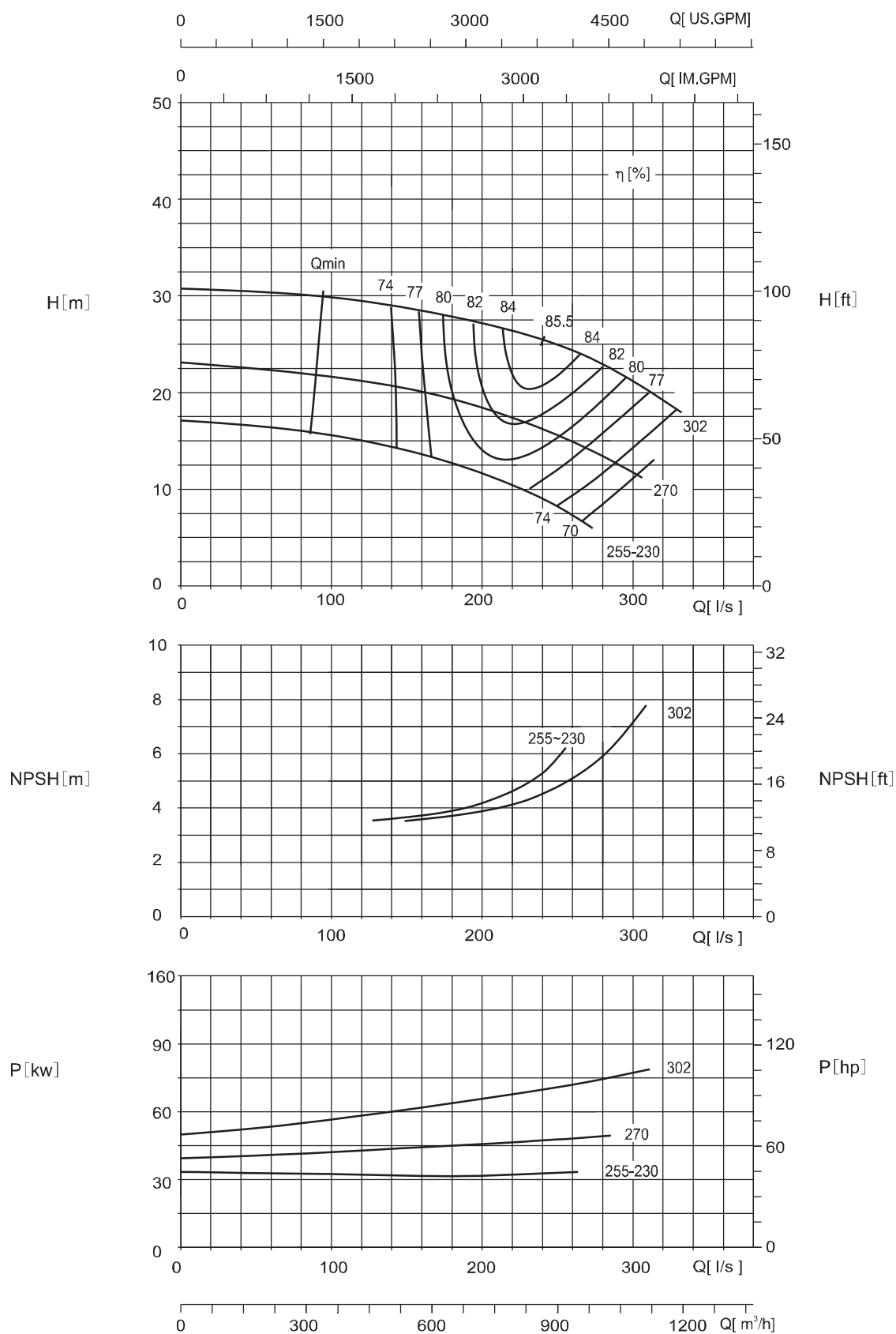
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 300-250-270

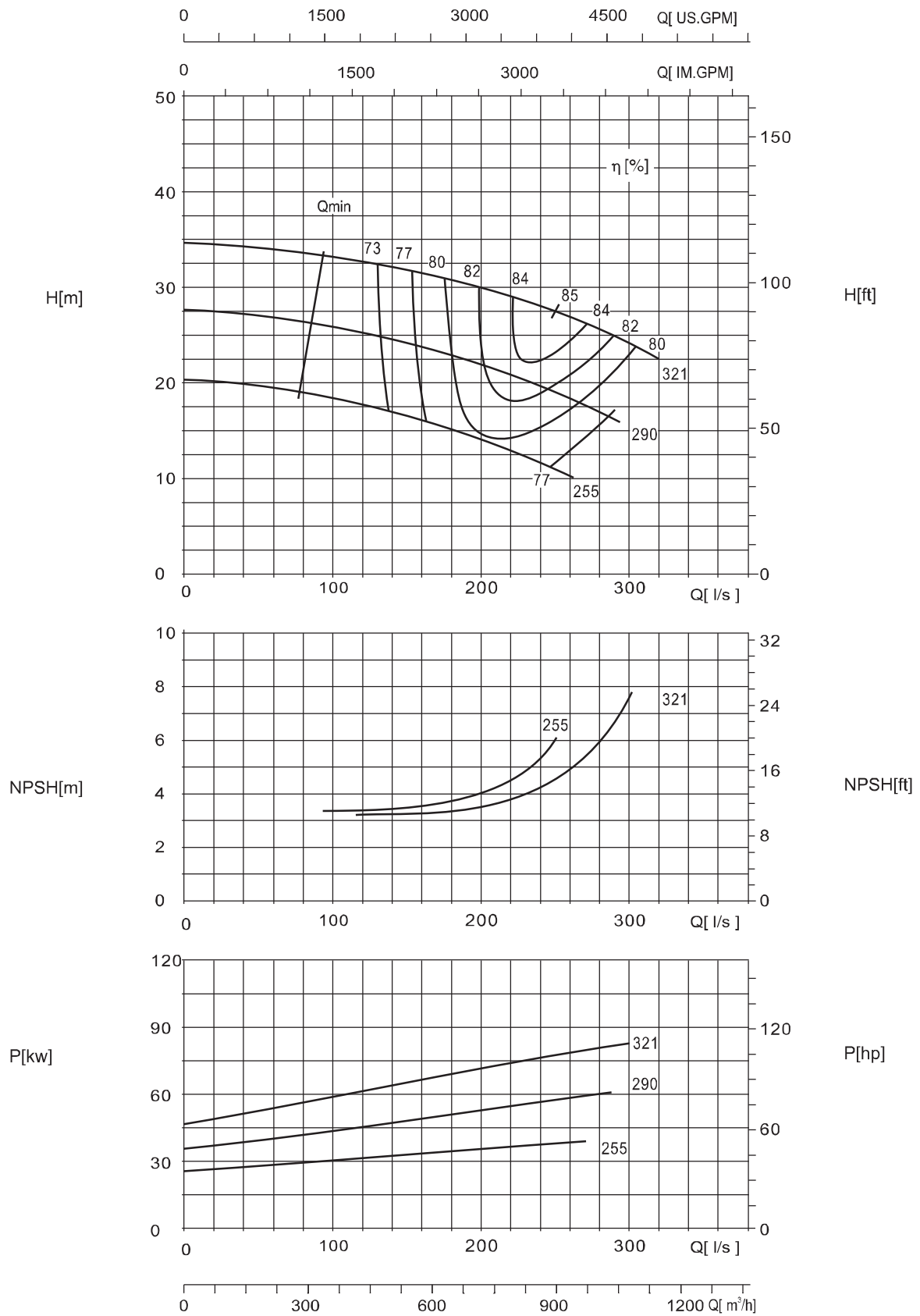
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 300-250-280

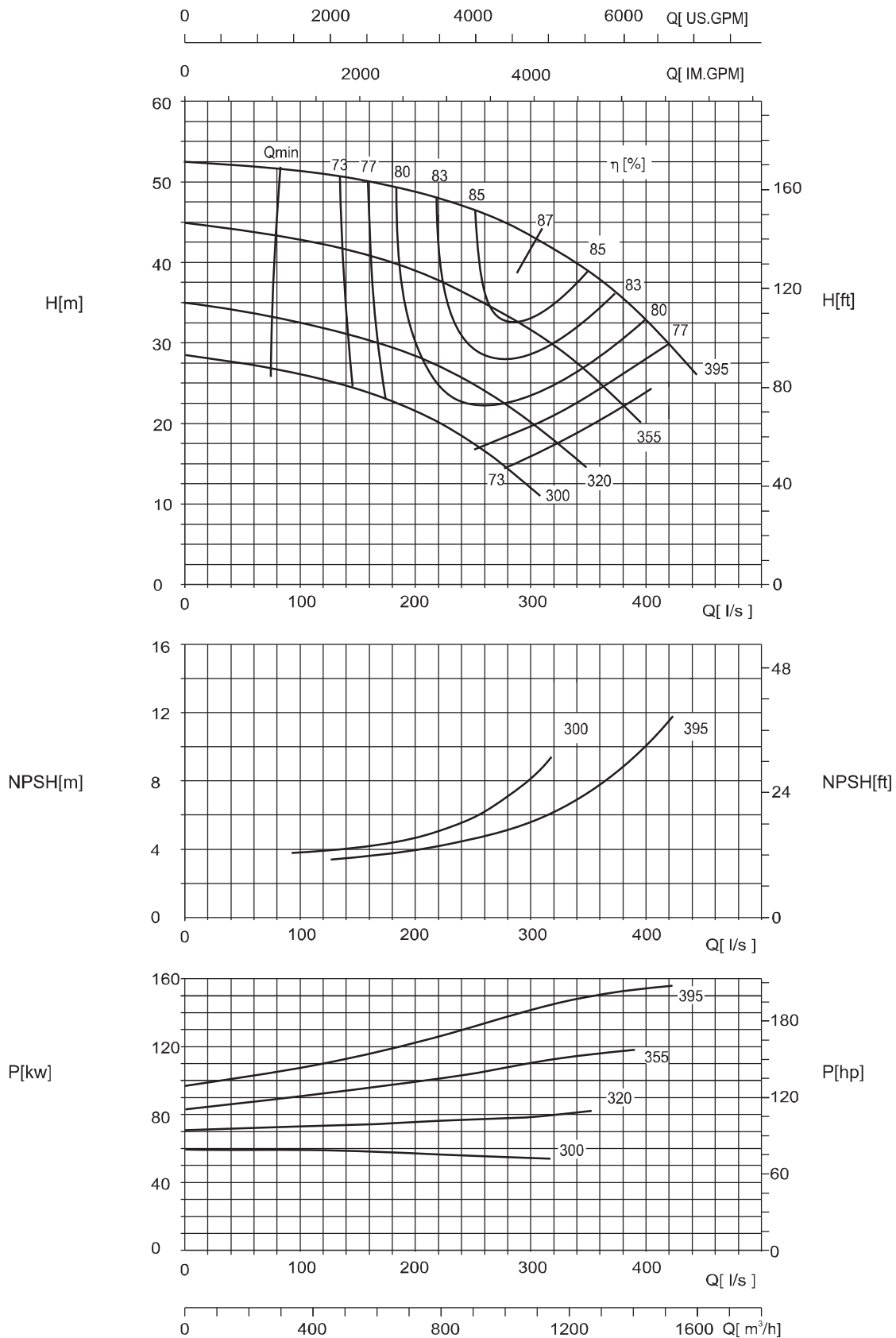
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC300-250-390

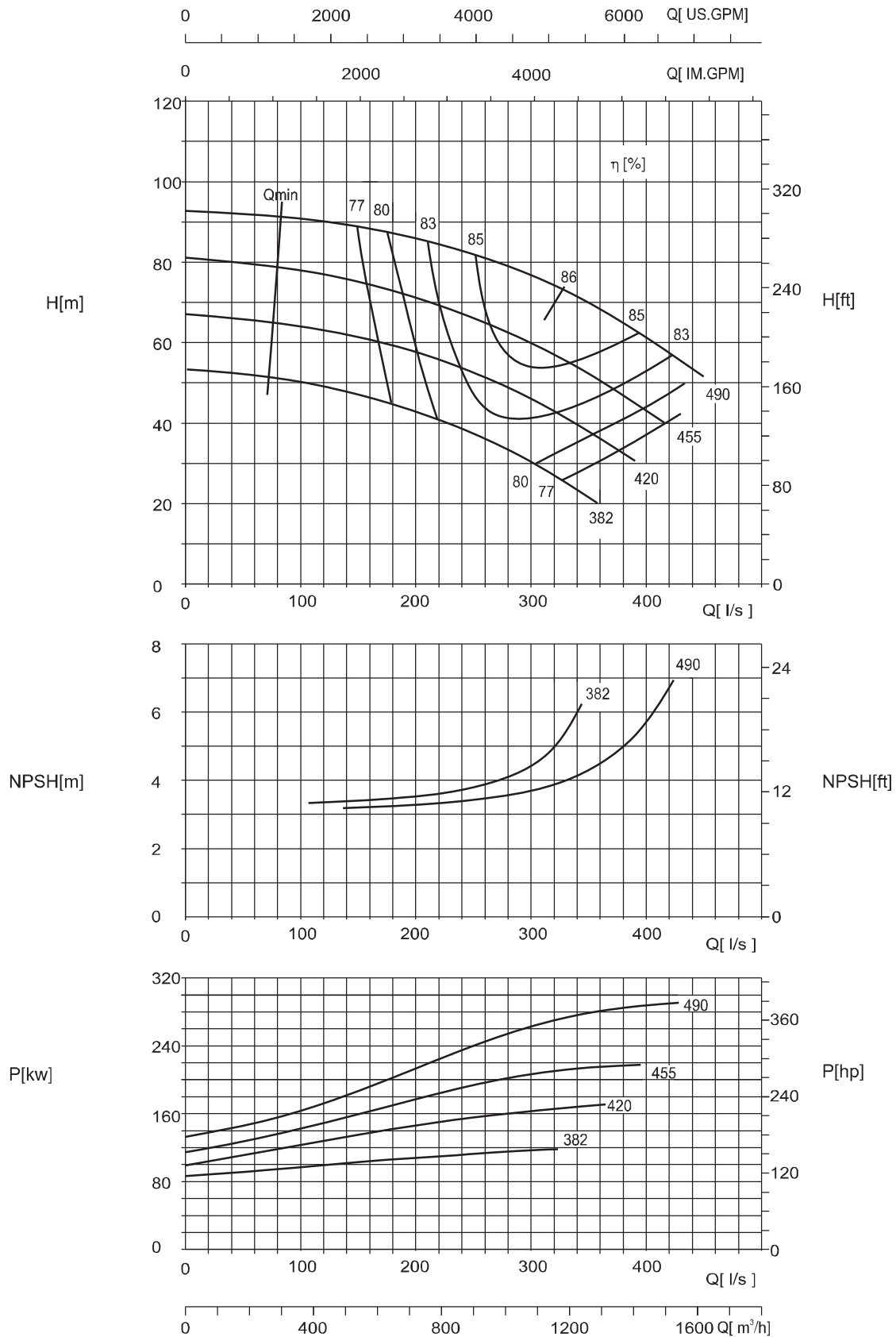
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 300-250-490

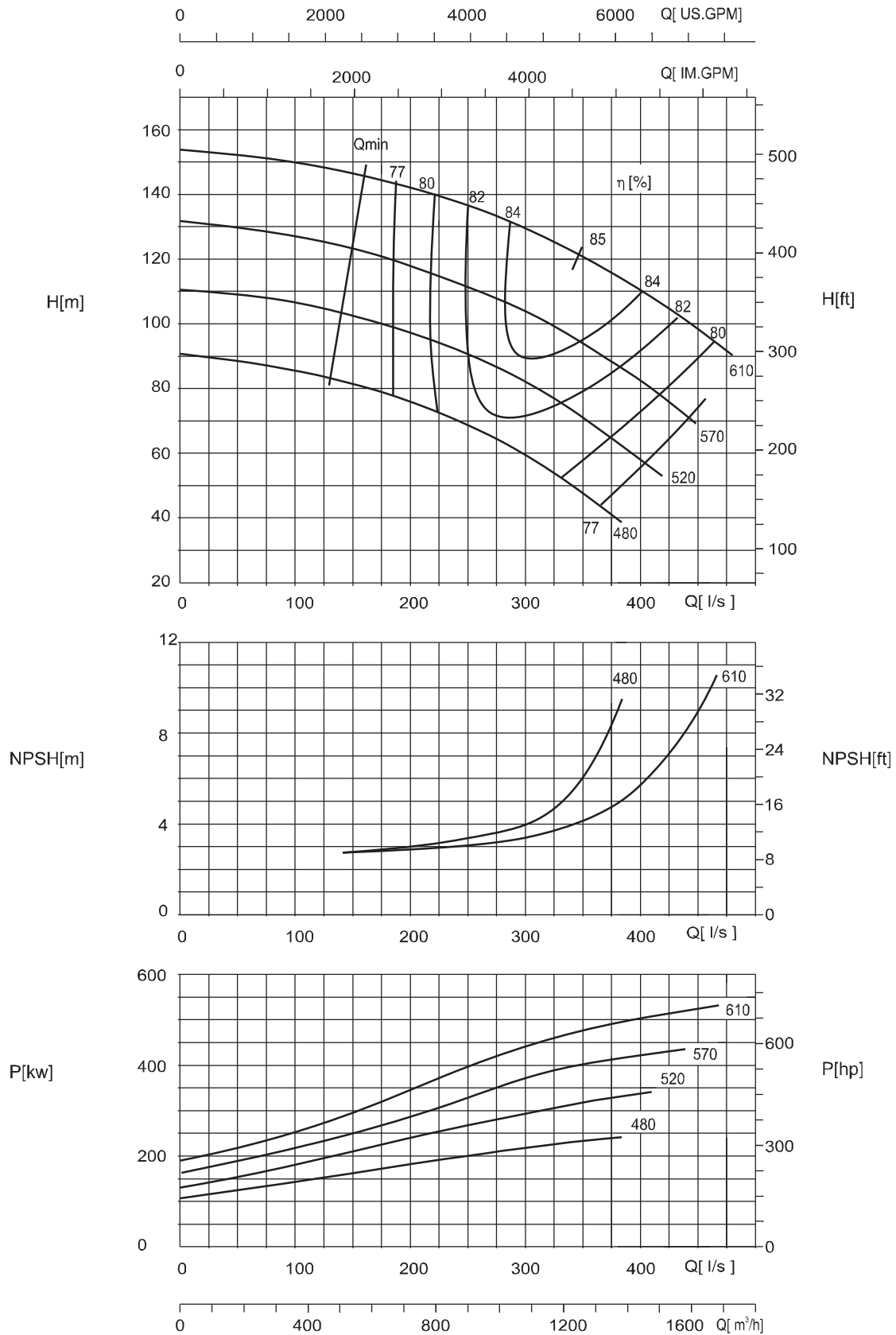
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 300-250-610

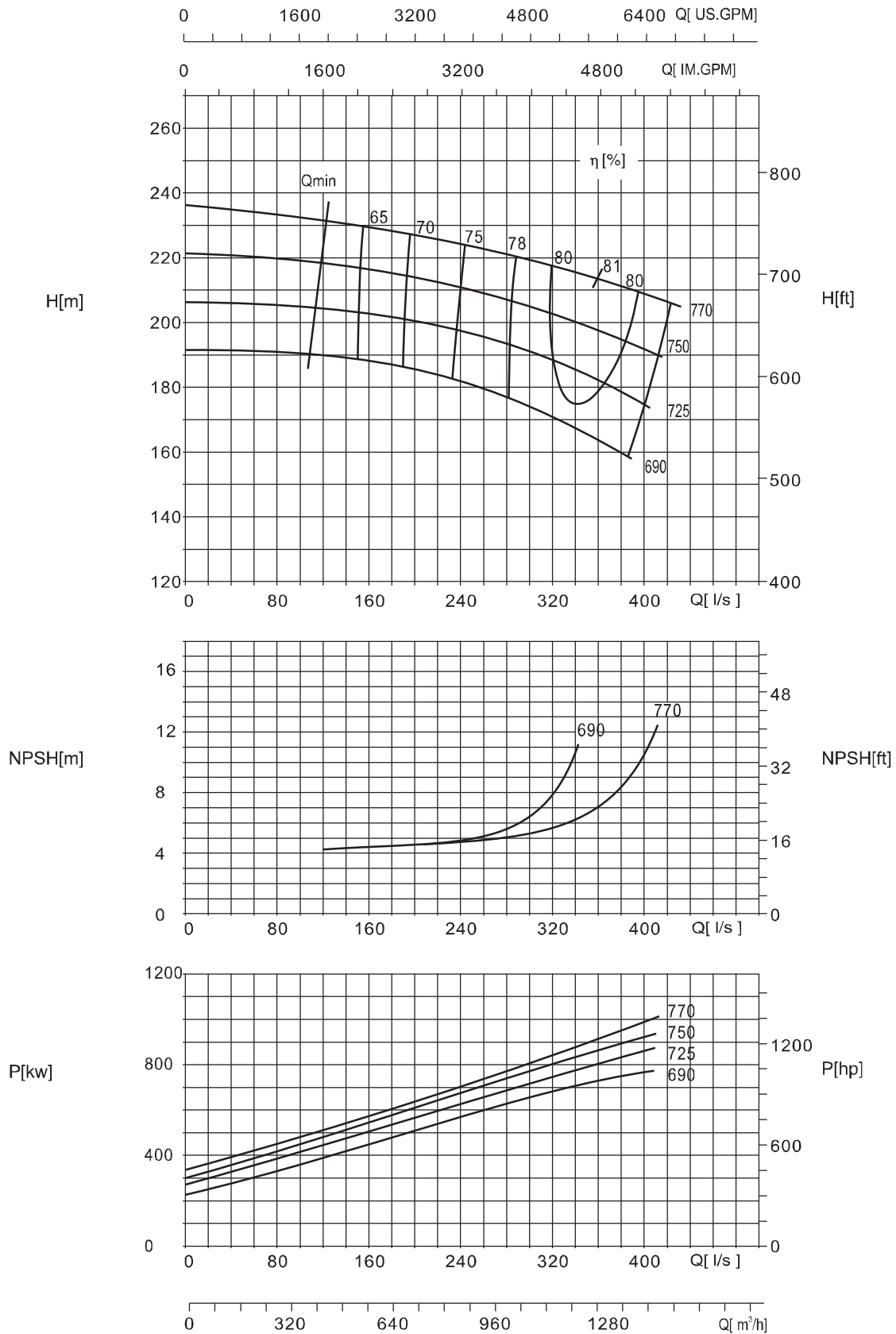
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 300-250-780

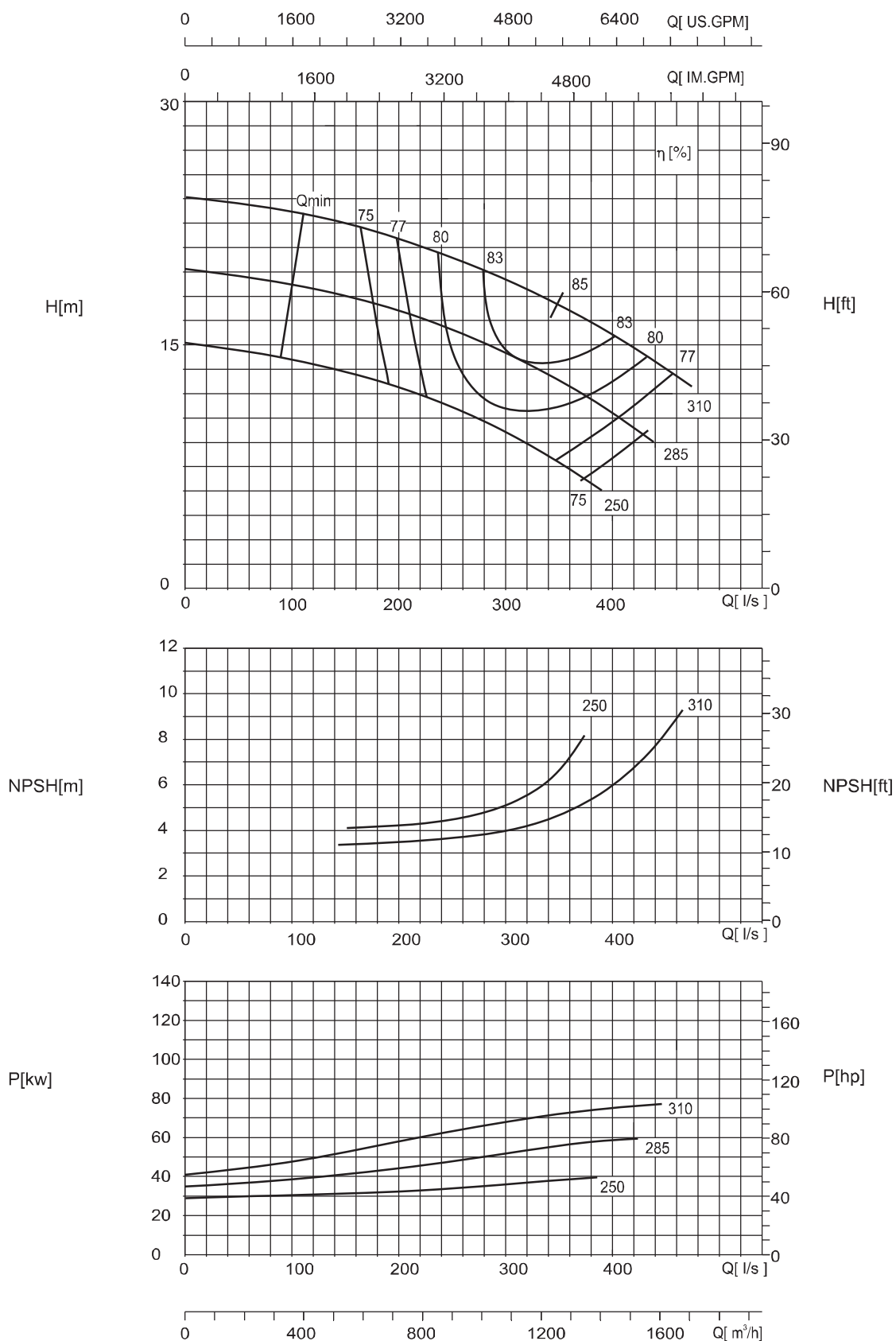
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 350-300-310

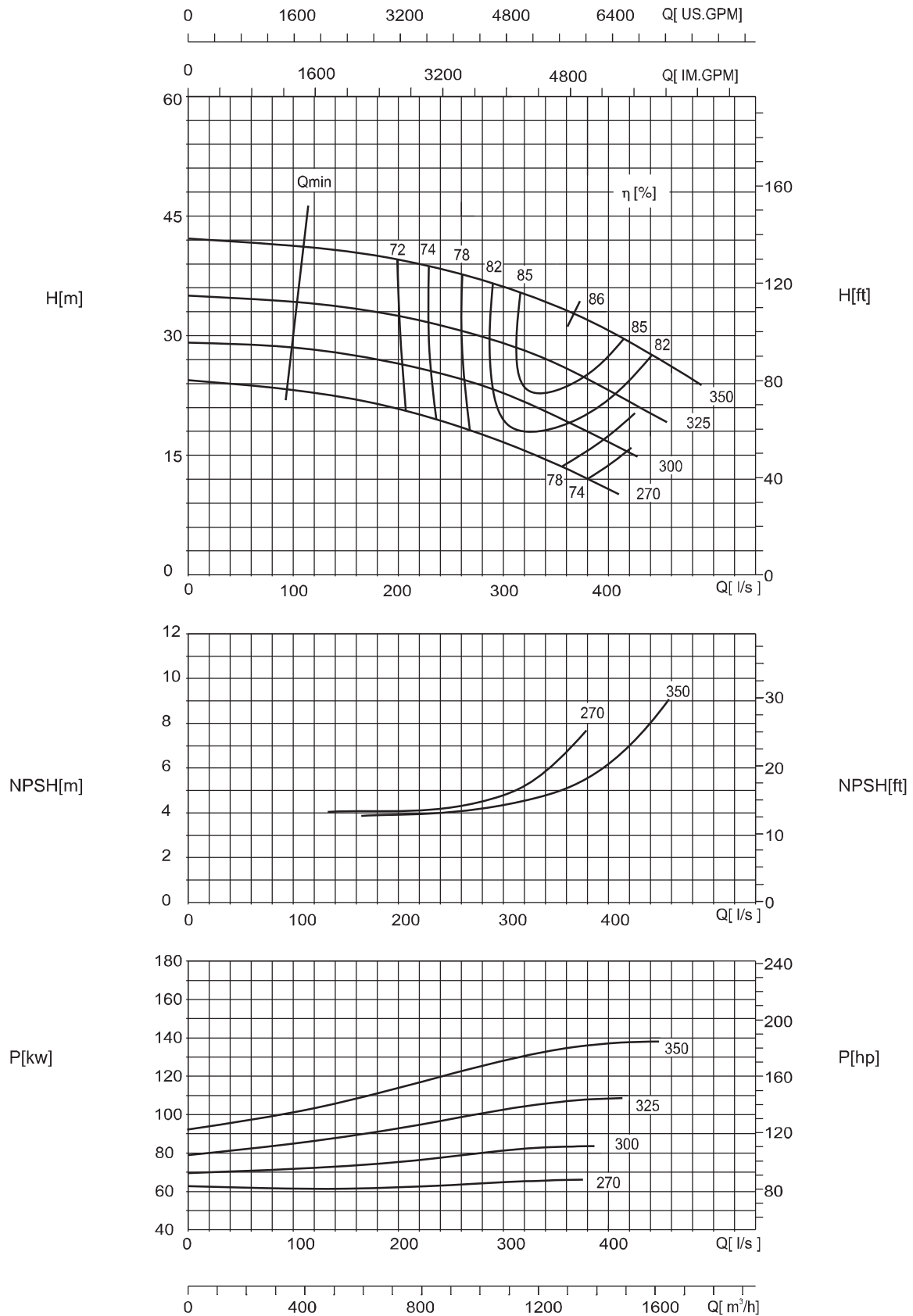
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 350-300-330

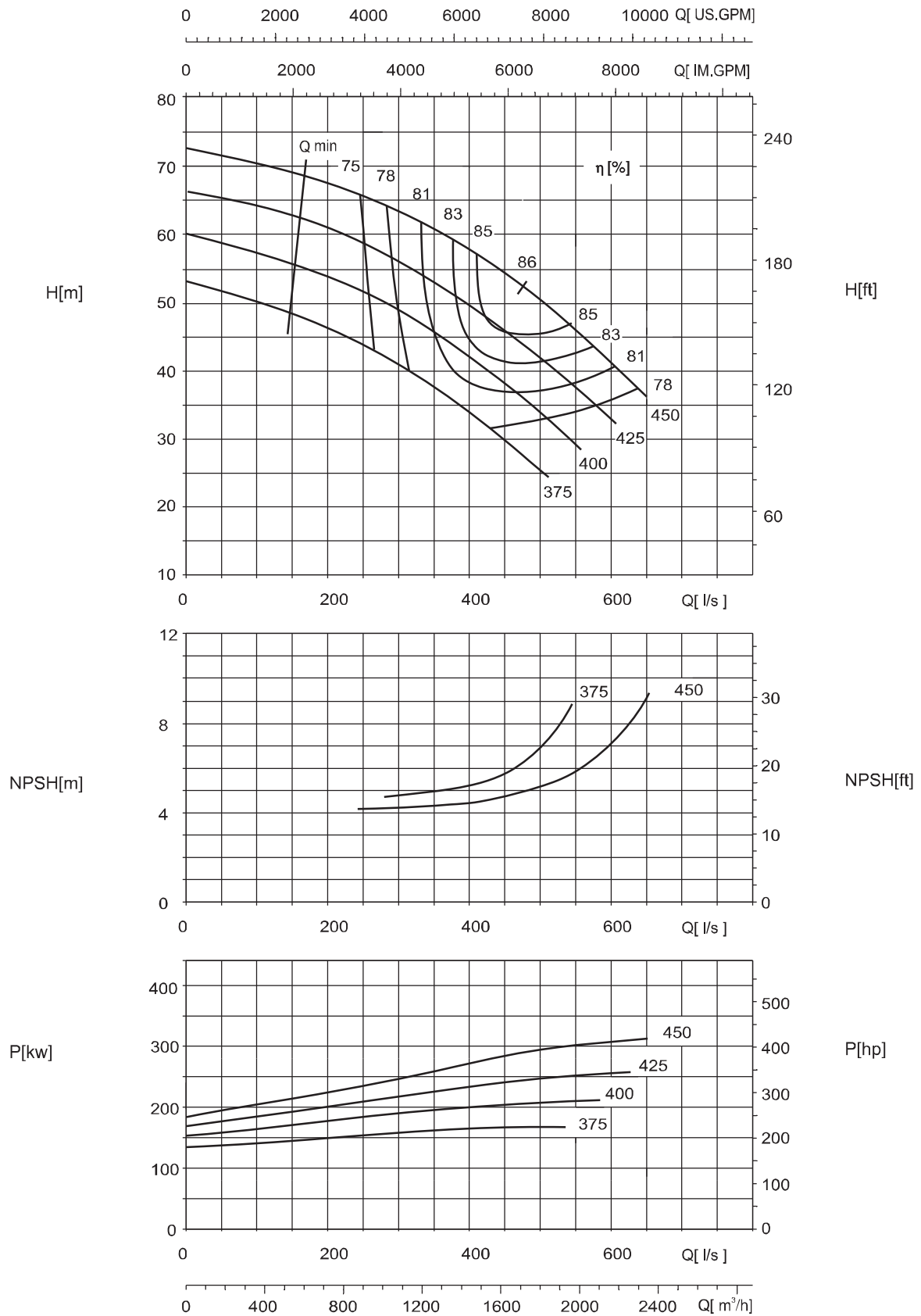
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 400-300-450L (Low Cavitation Impeller)

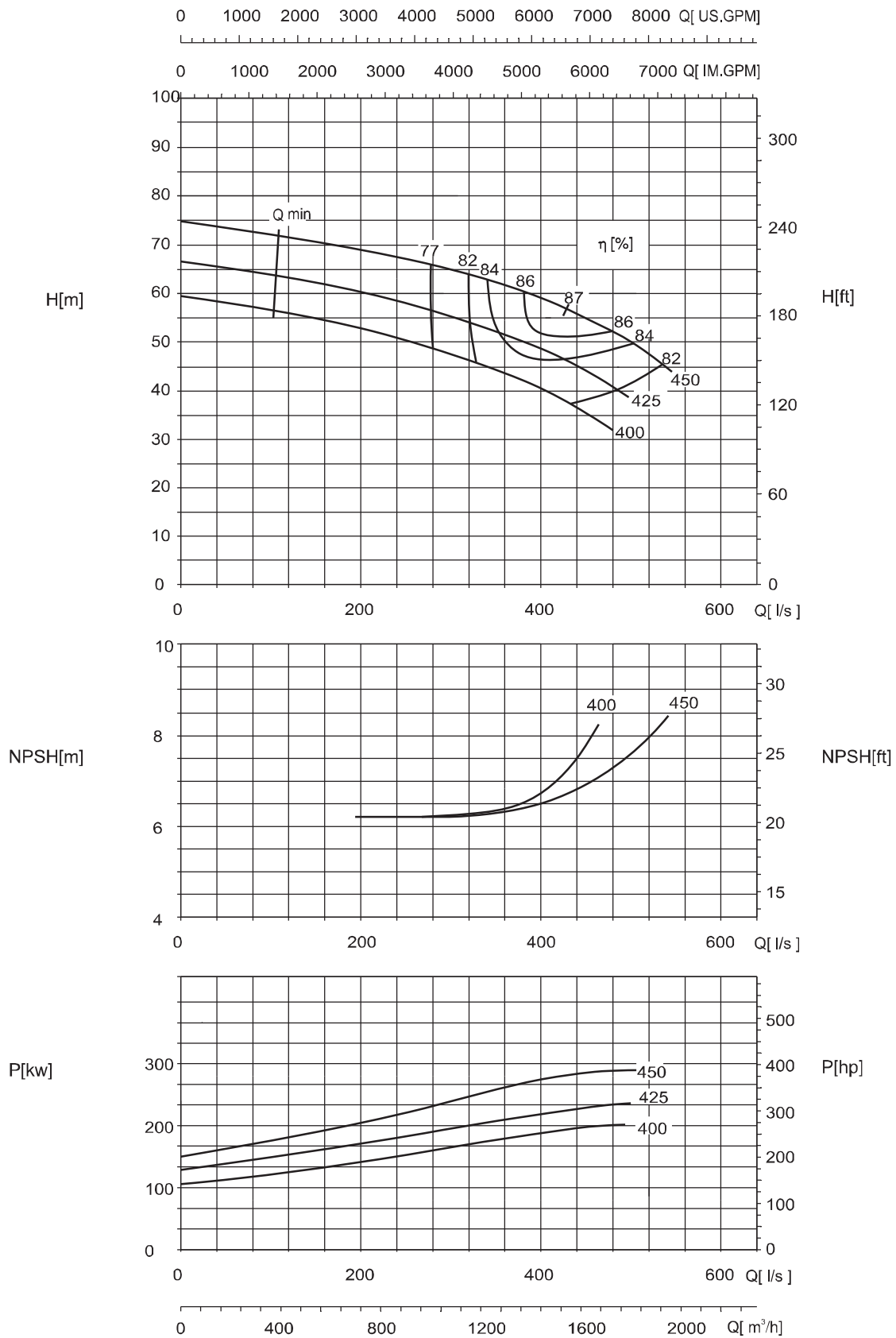
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 400-300-450H (High Efficiency Impeller)

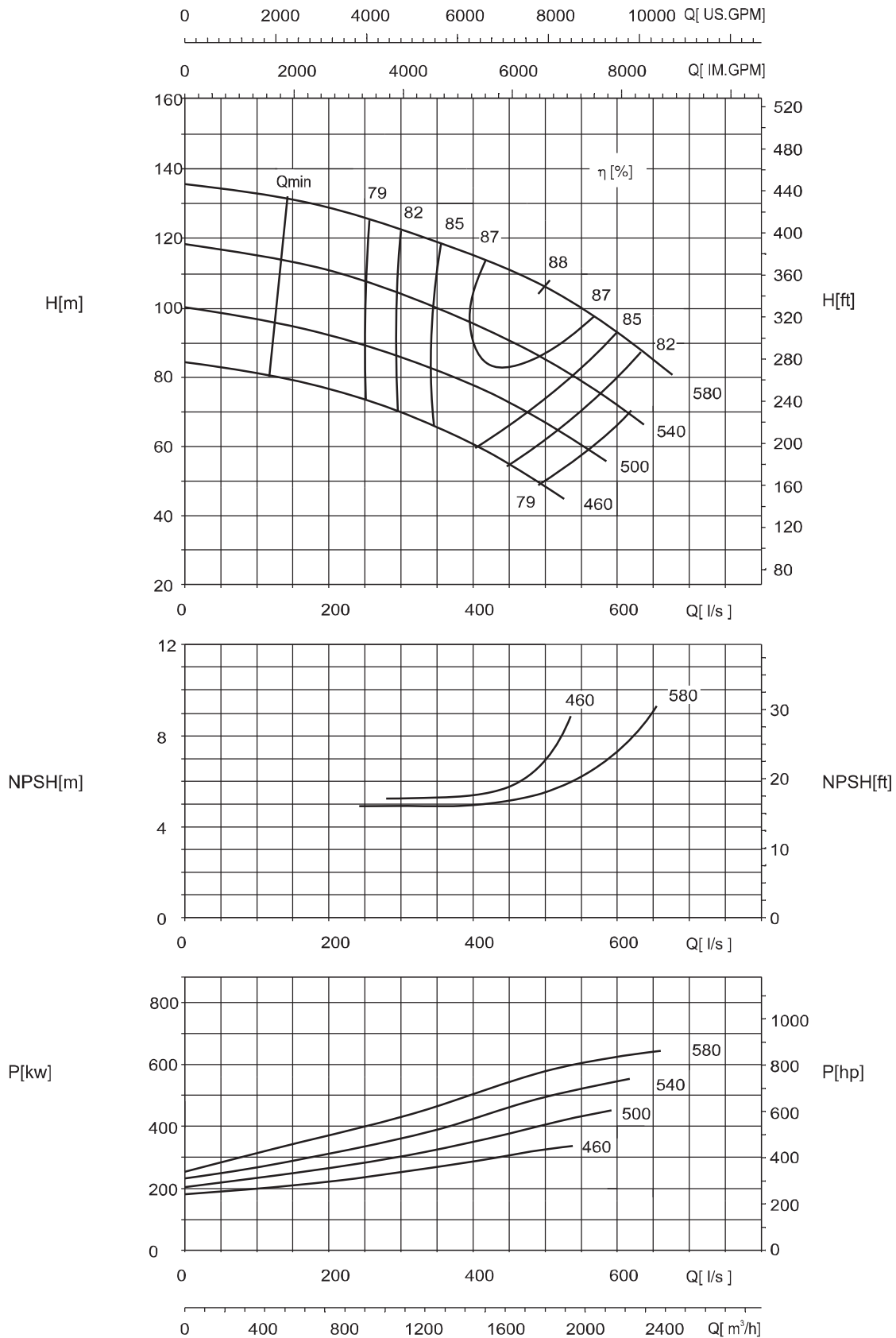
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 400-300-570

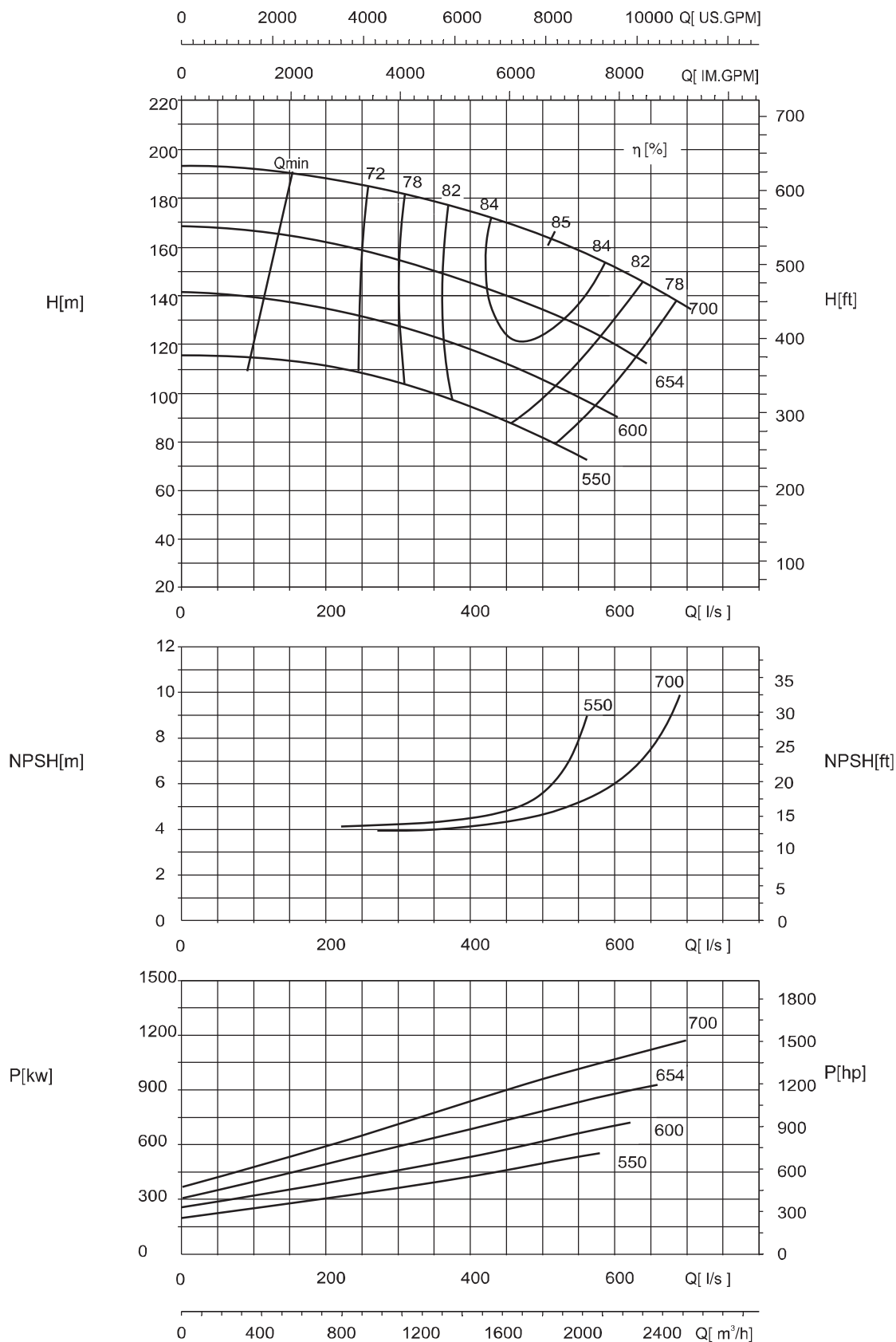
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 400-300-700

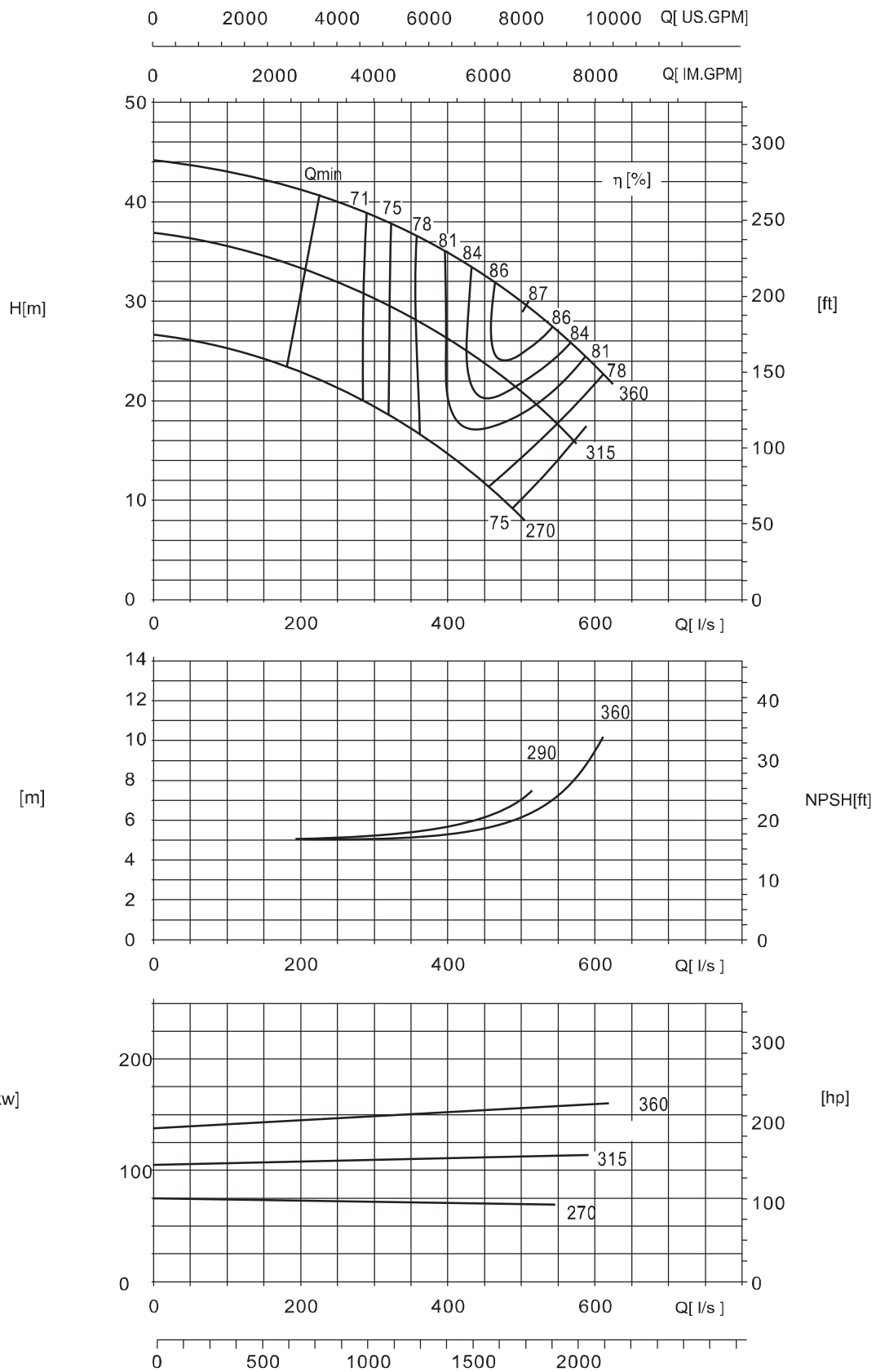
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 400-350-360

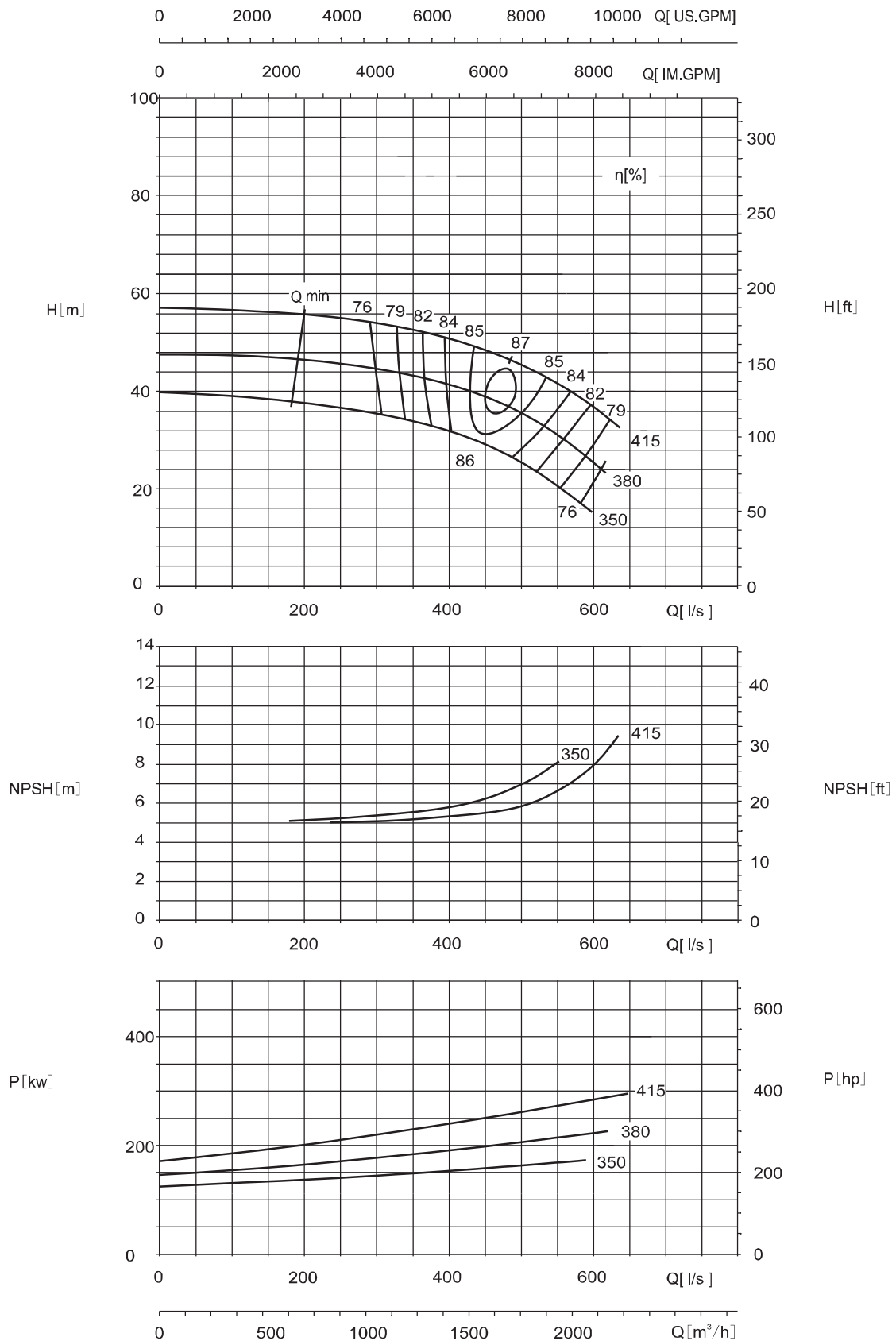
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 400-350-380

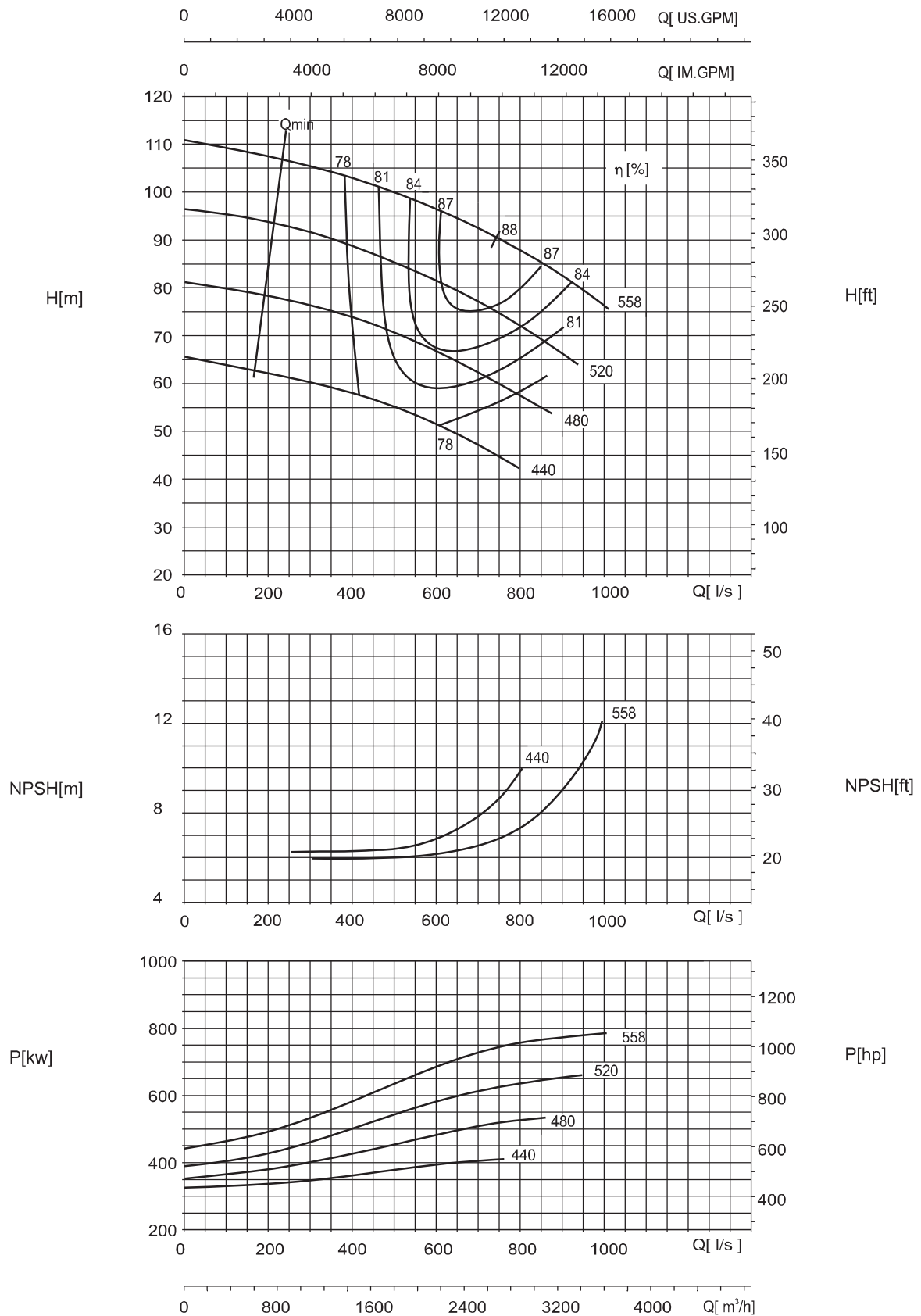
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC400-350-520

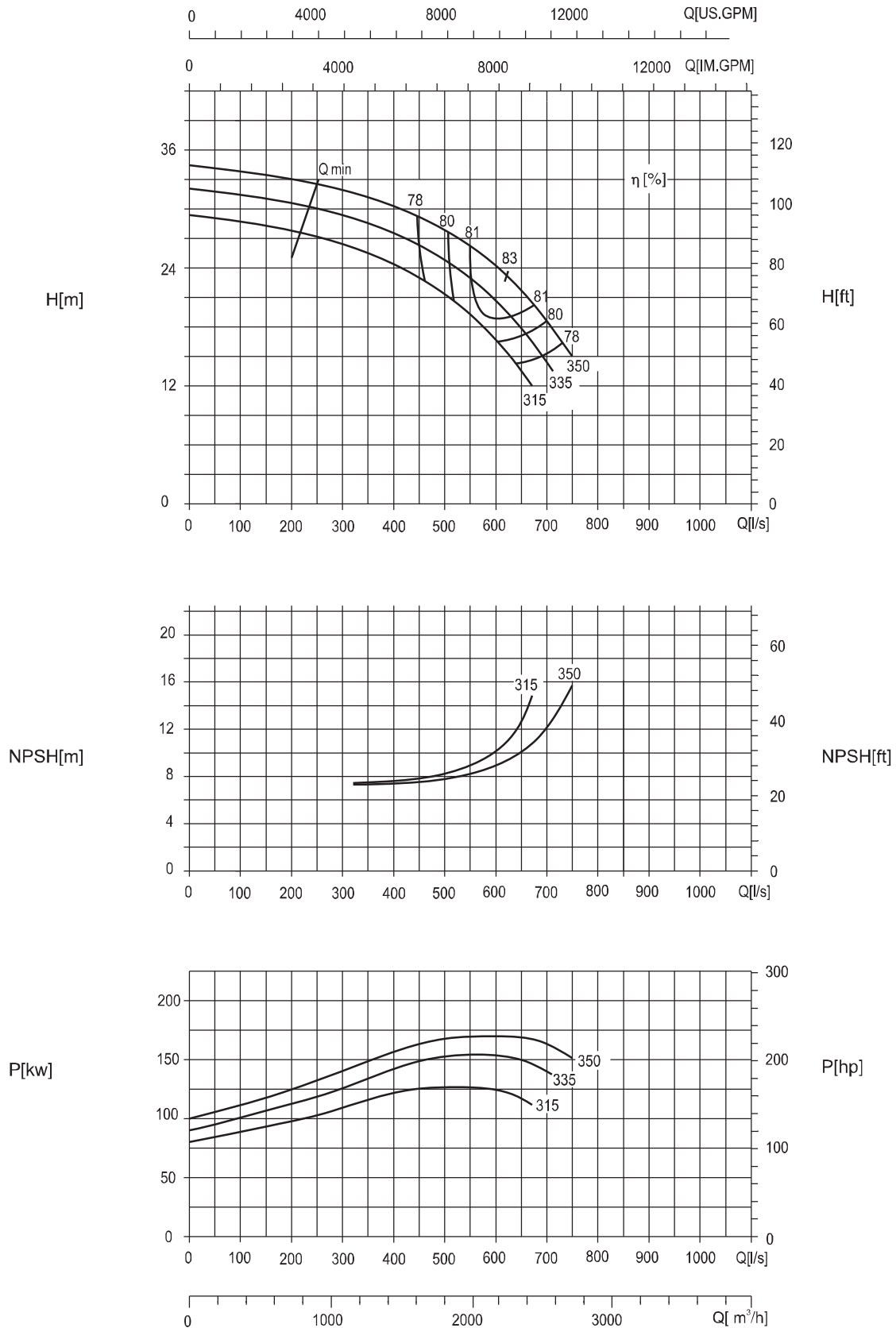
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 450-450-350

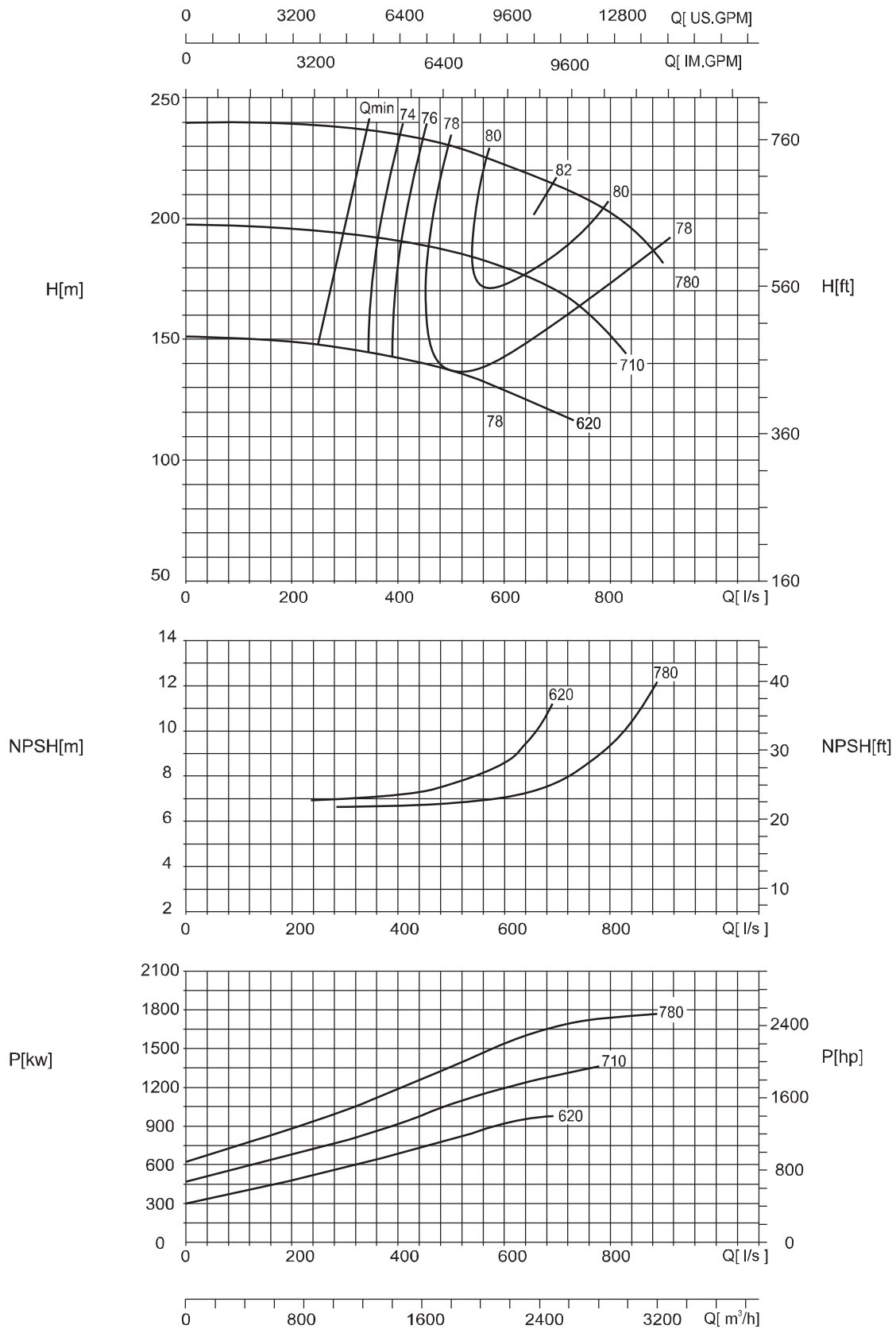
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 500-300-780

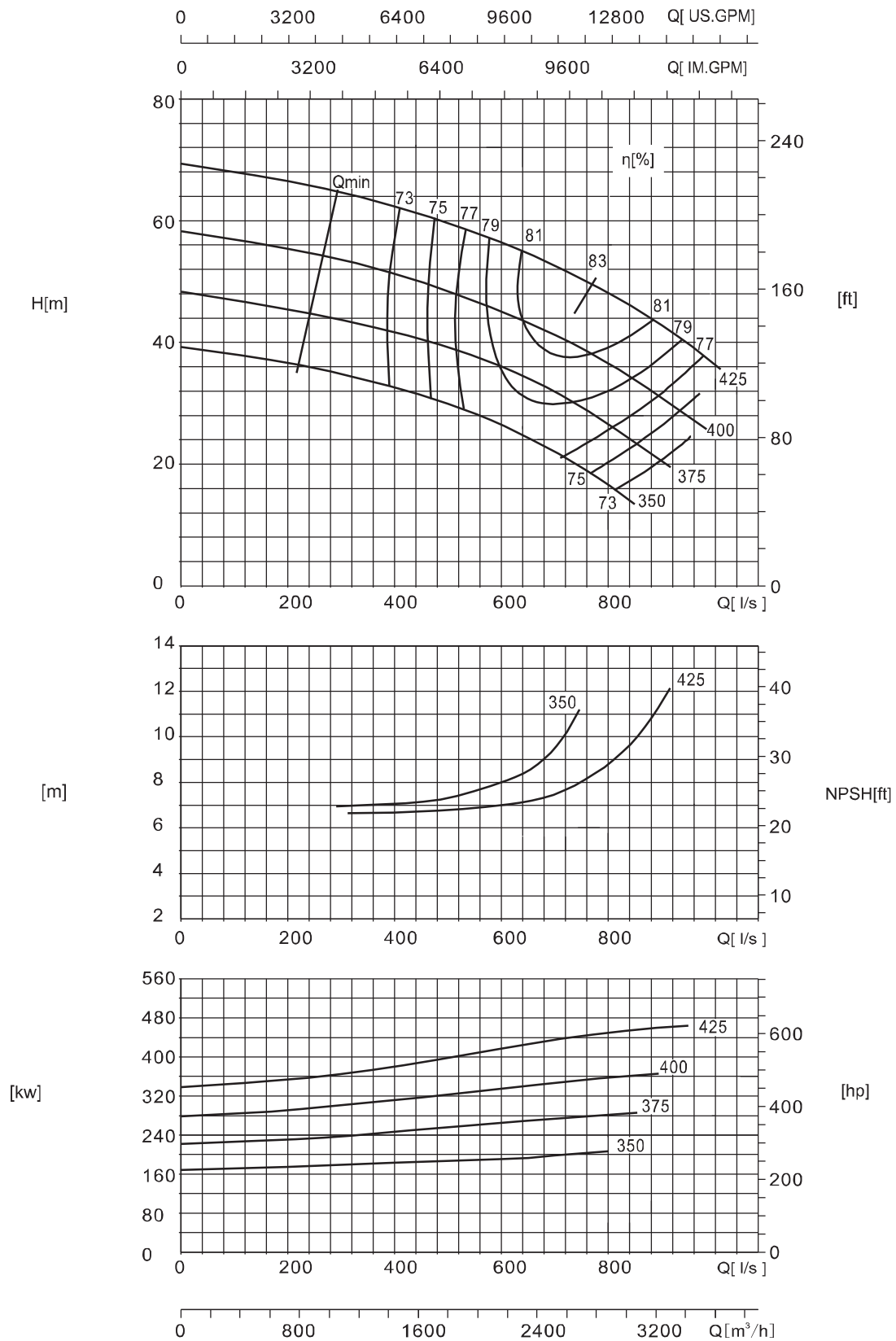
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 500-400-420

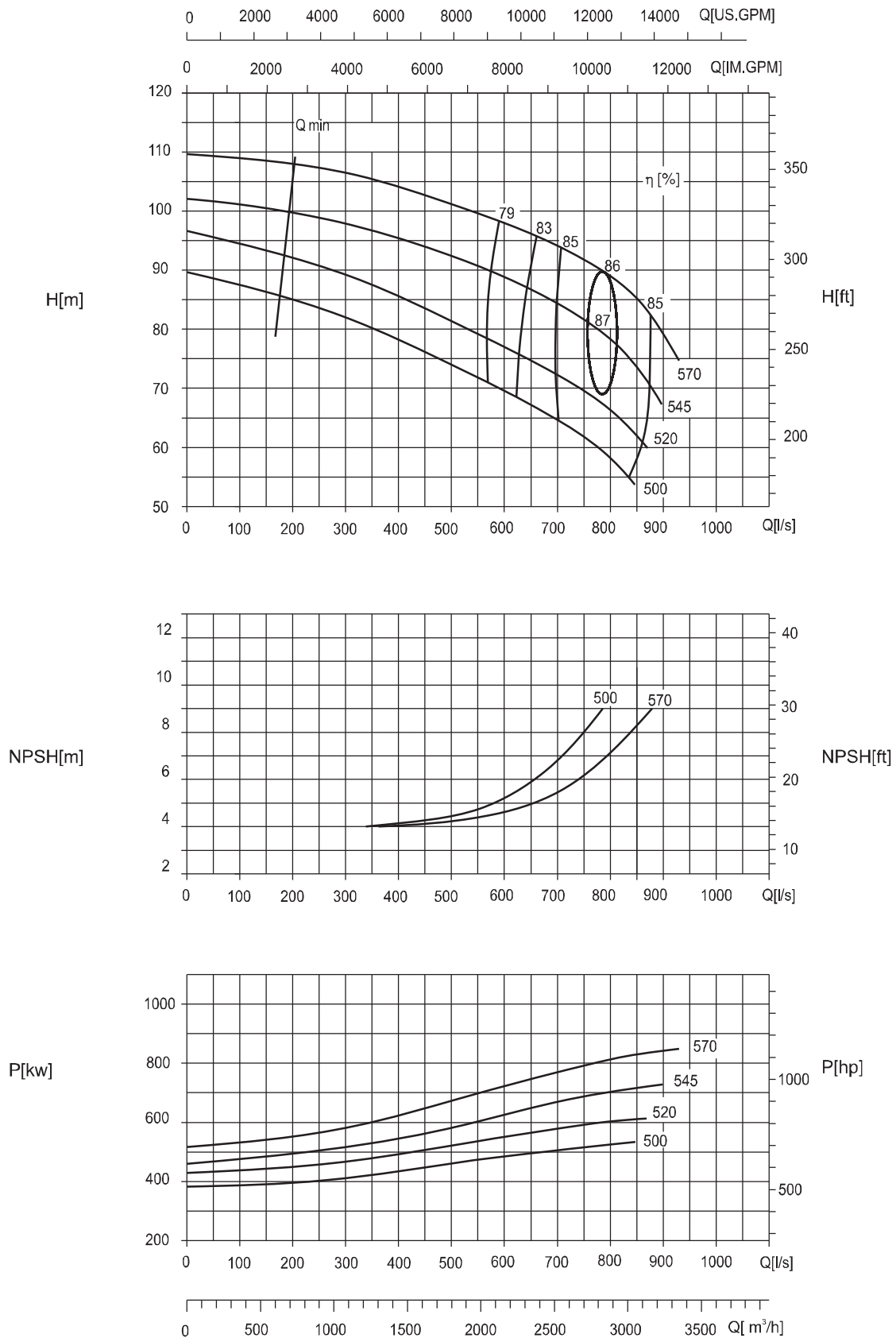
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 500-400-540

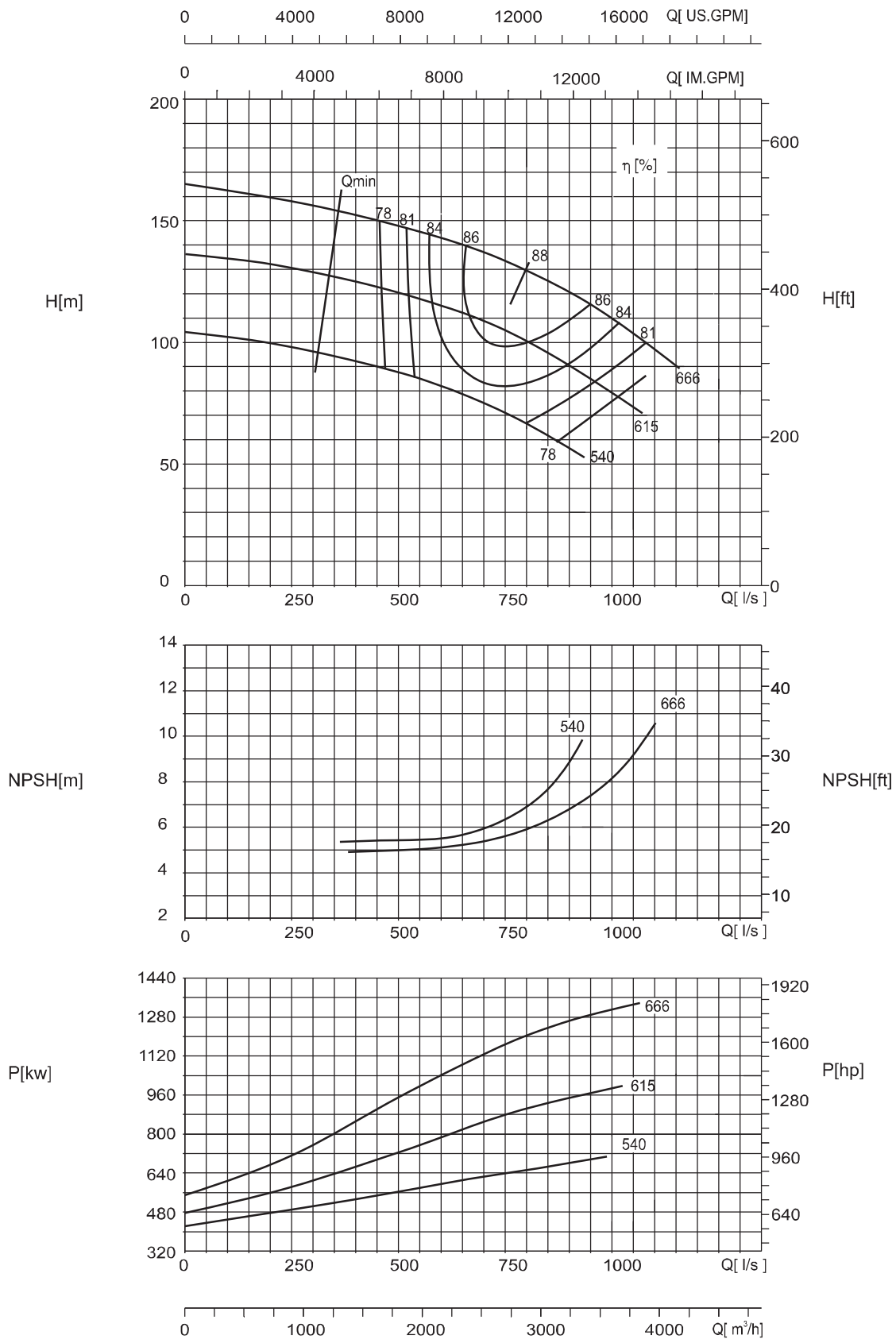
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 500-400-660

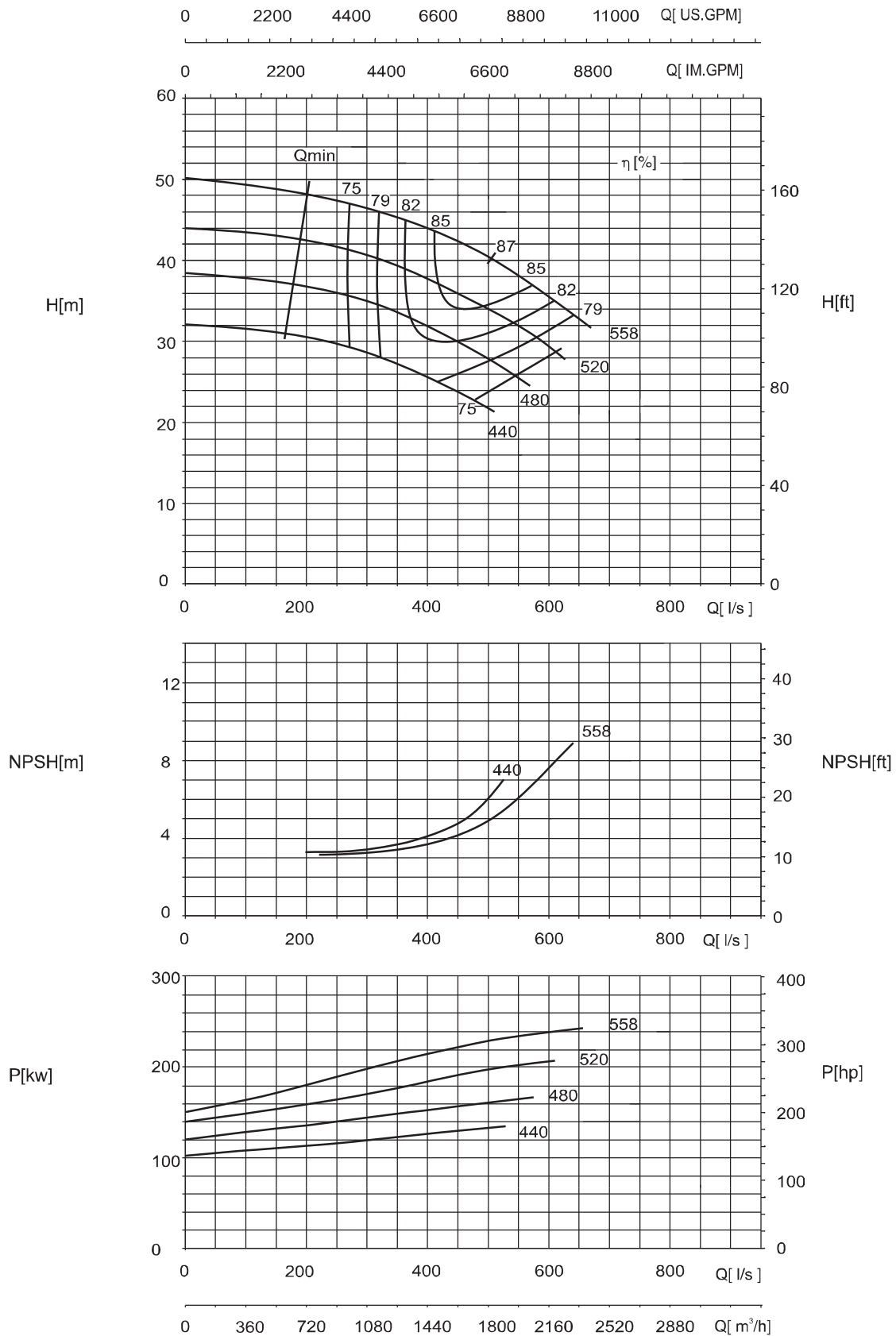
1480 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 400-350-520

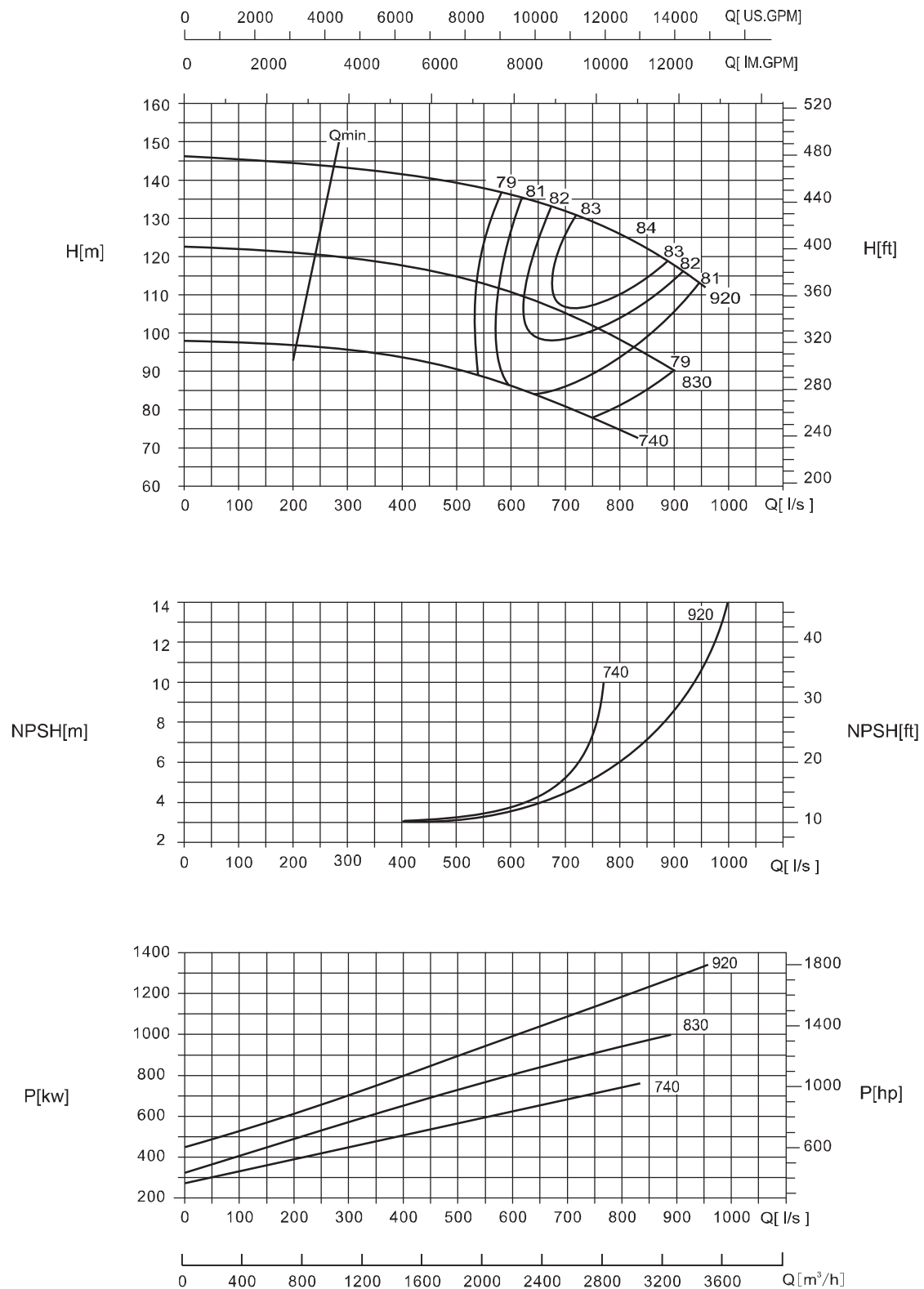
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 500-300-920

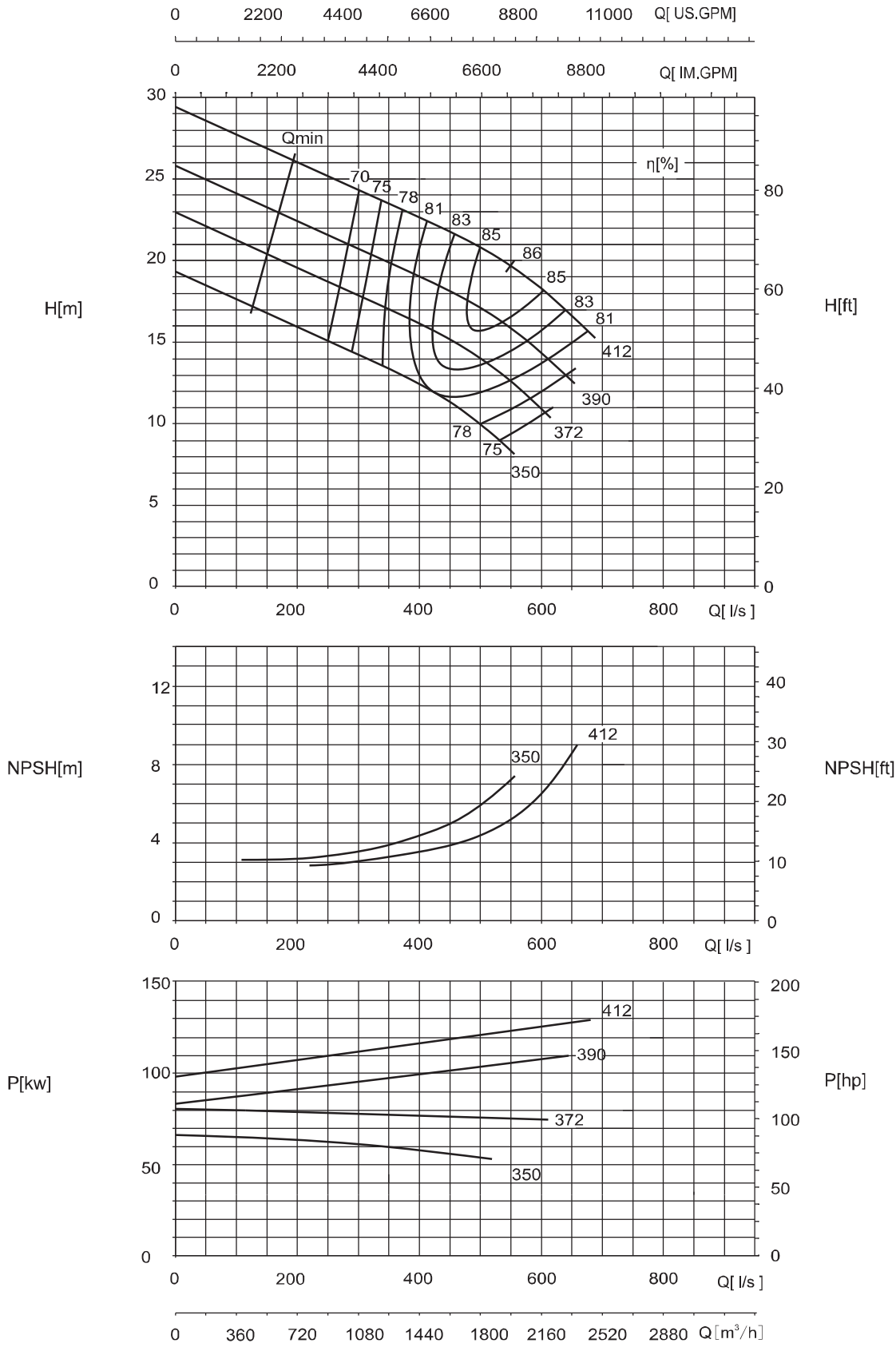
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 500-400-400

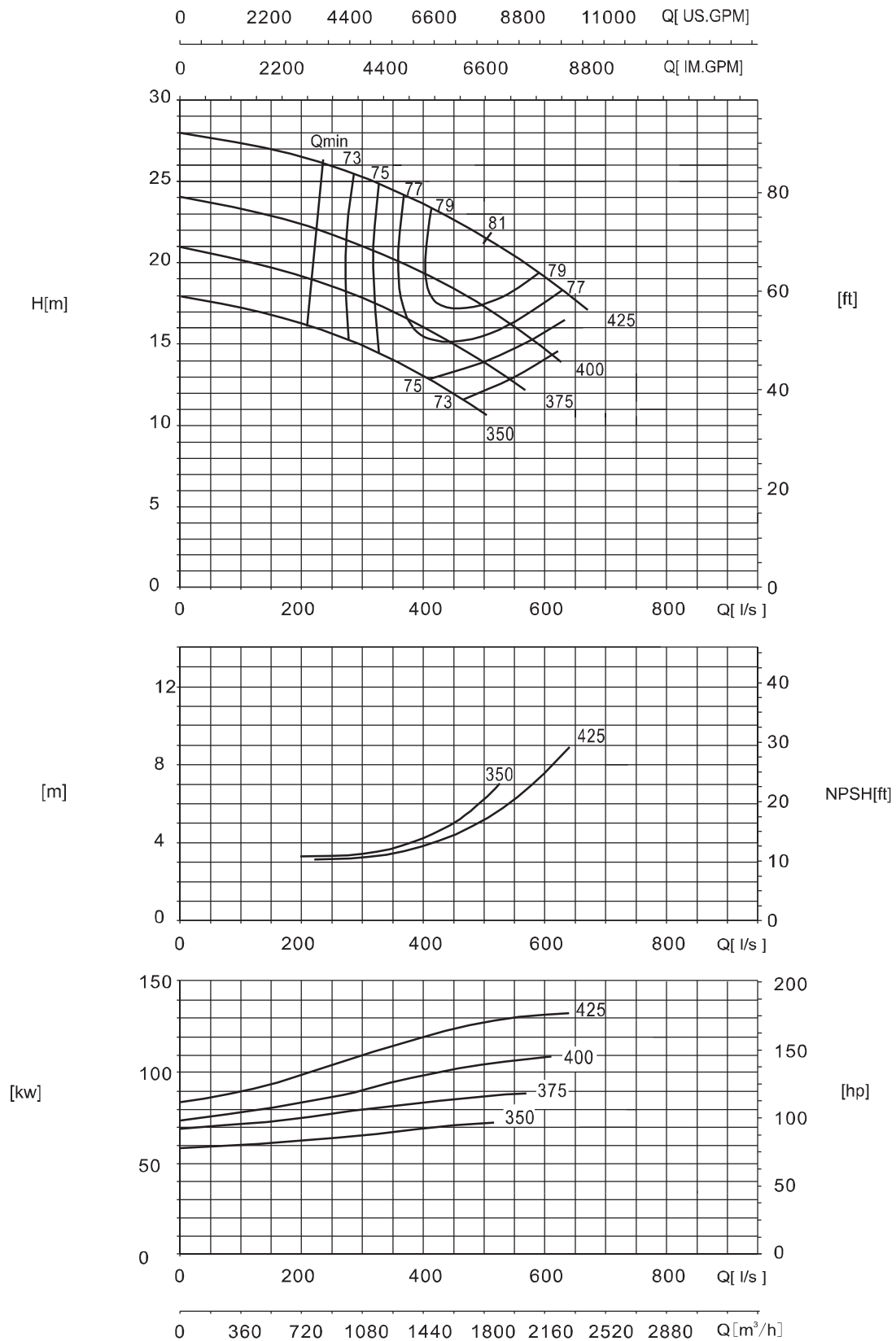
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 500-400-420

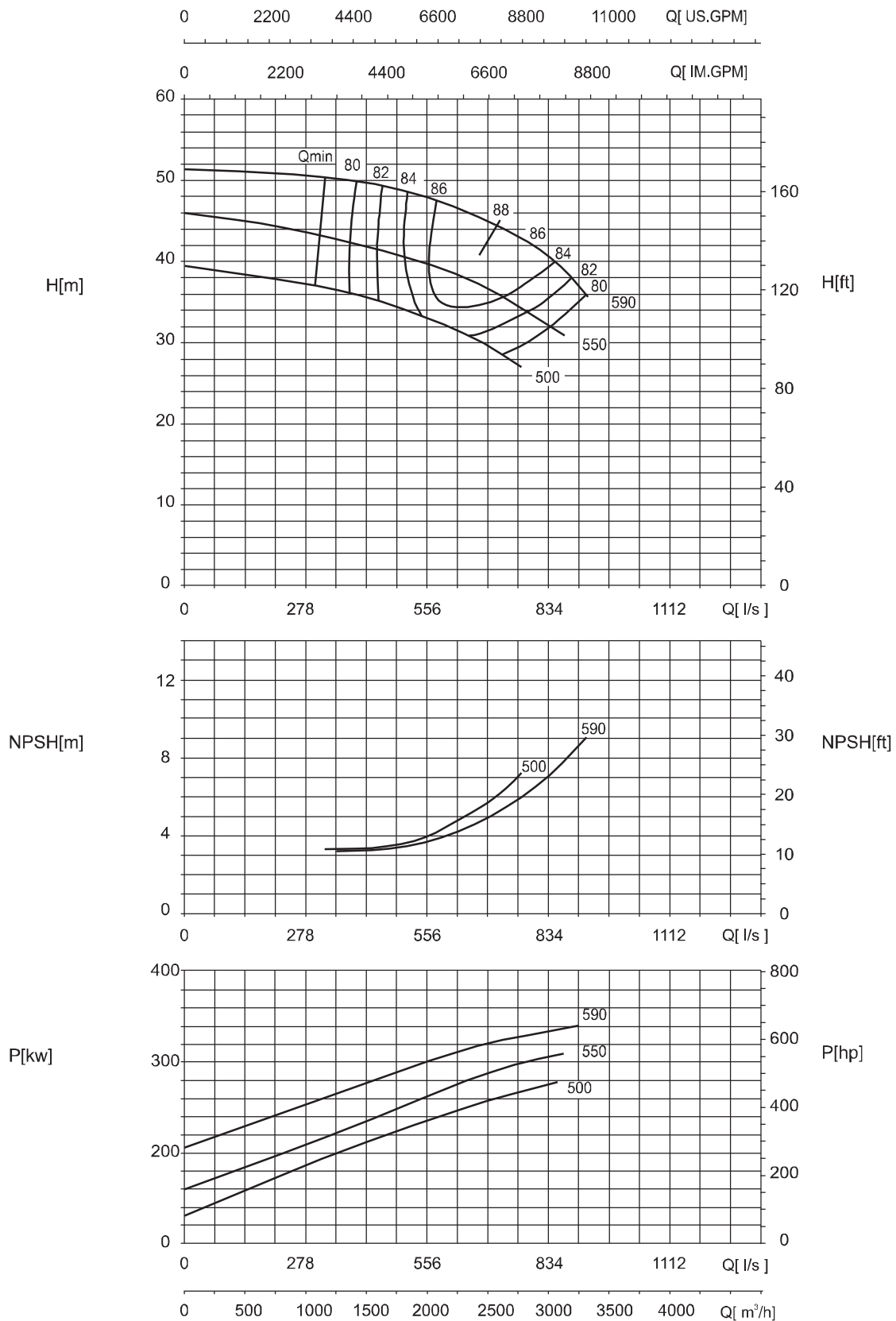
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 500-400-590

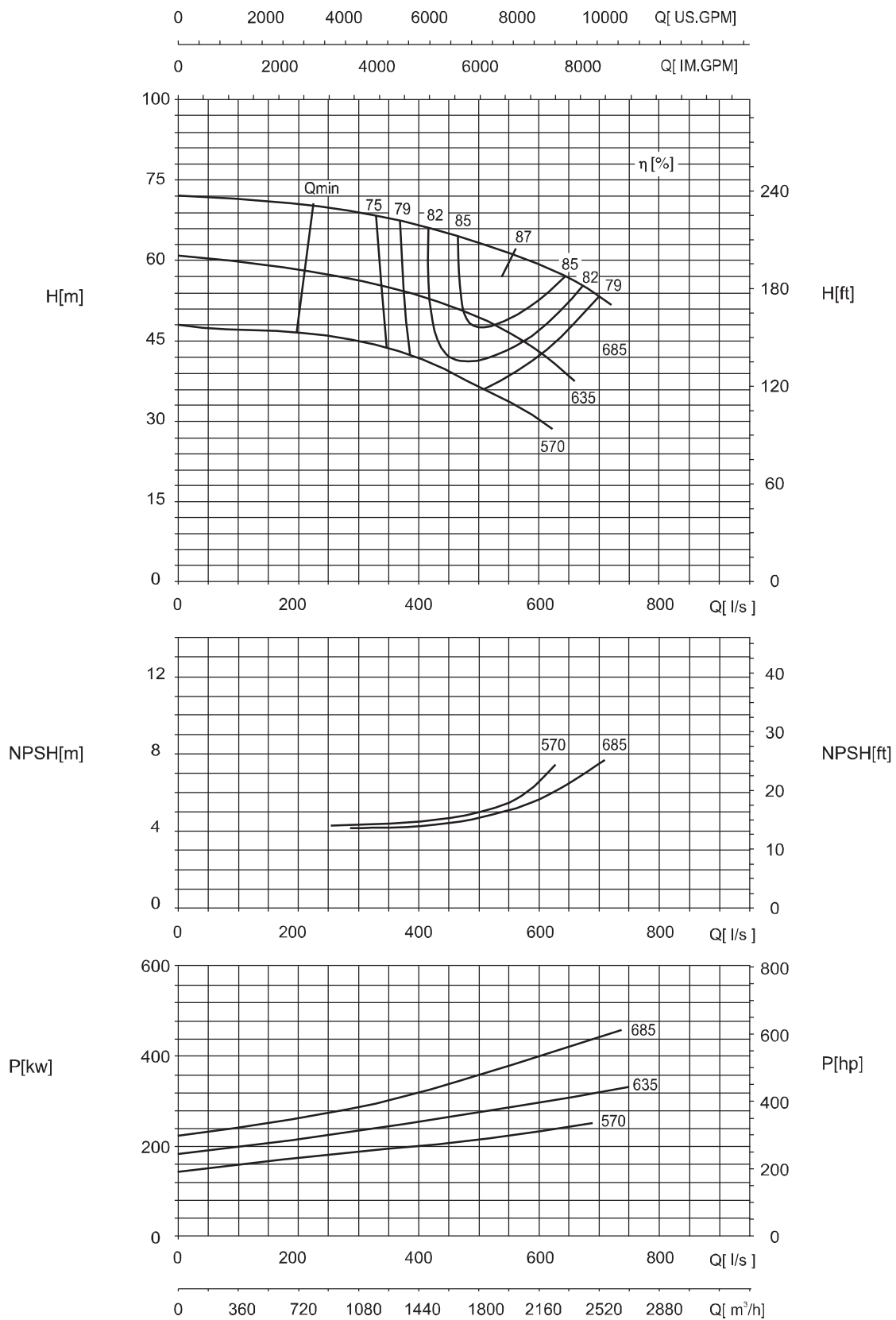
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 500-400-675

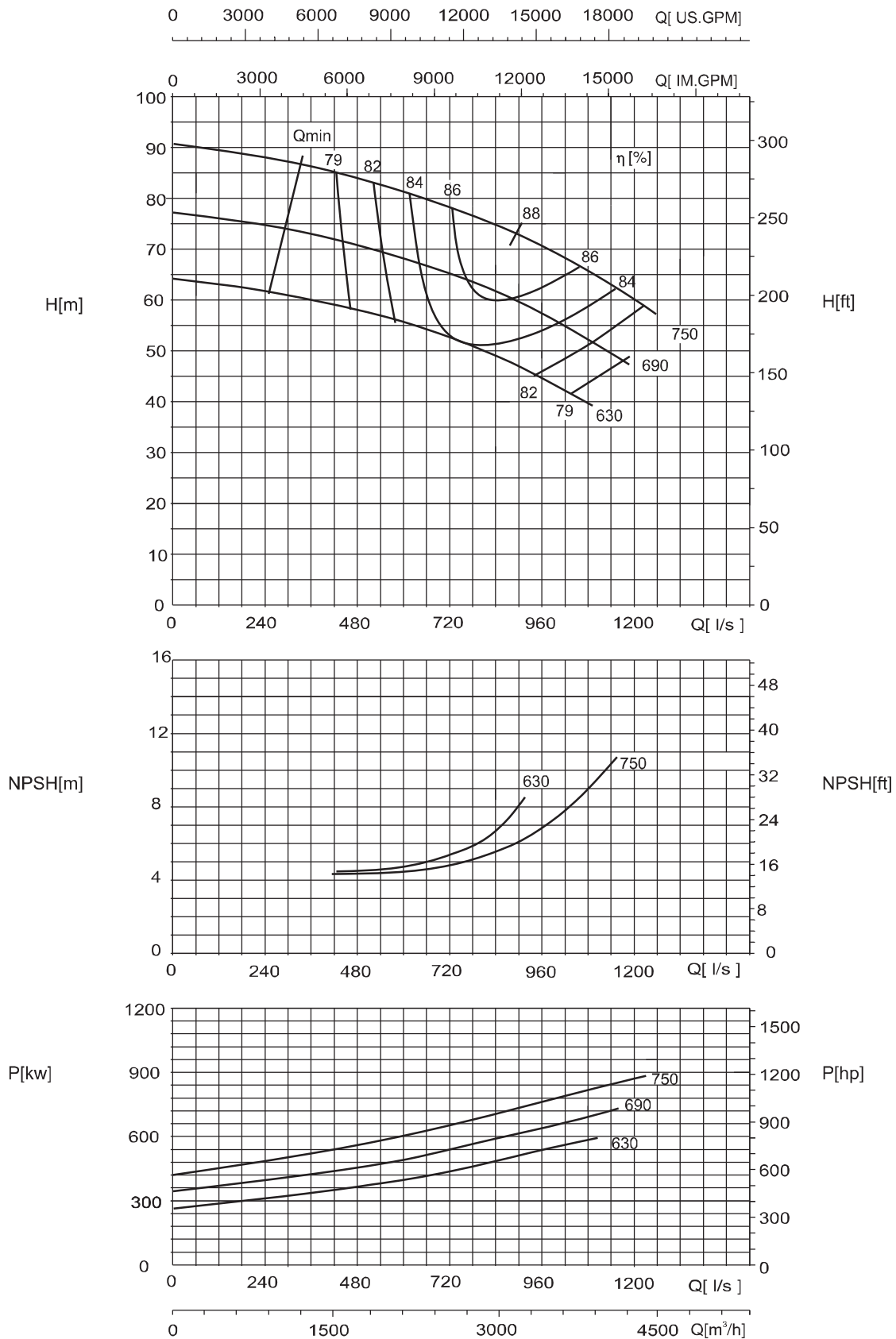
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 600-400-740

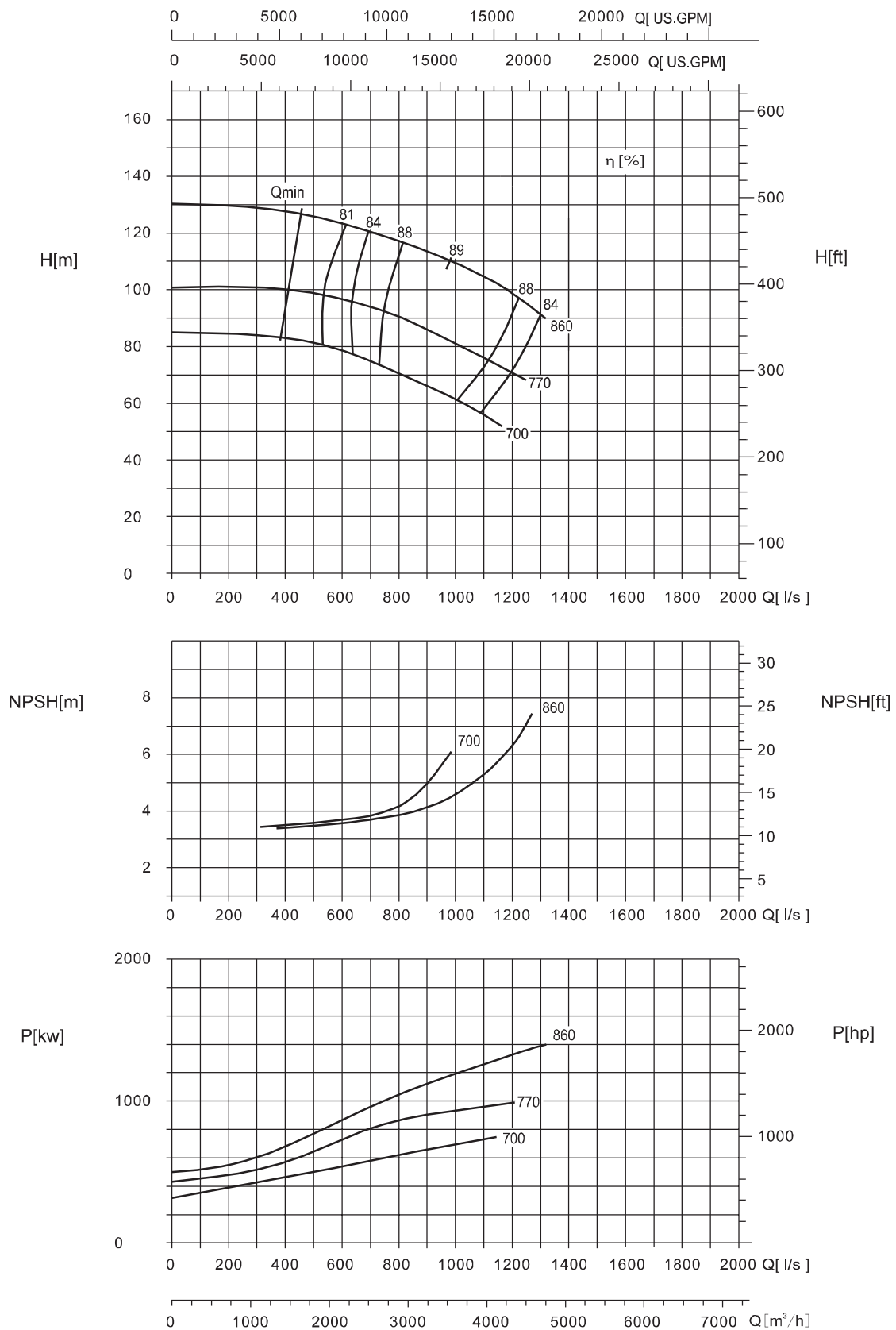
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 600-400-850

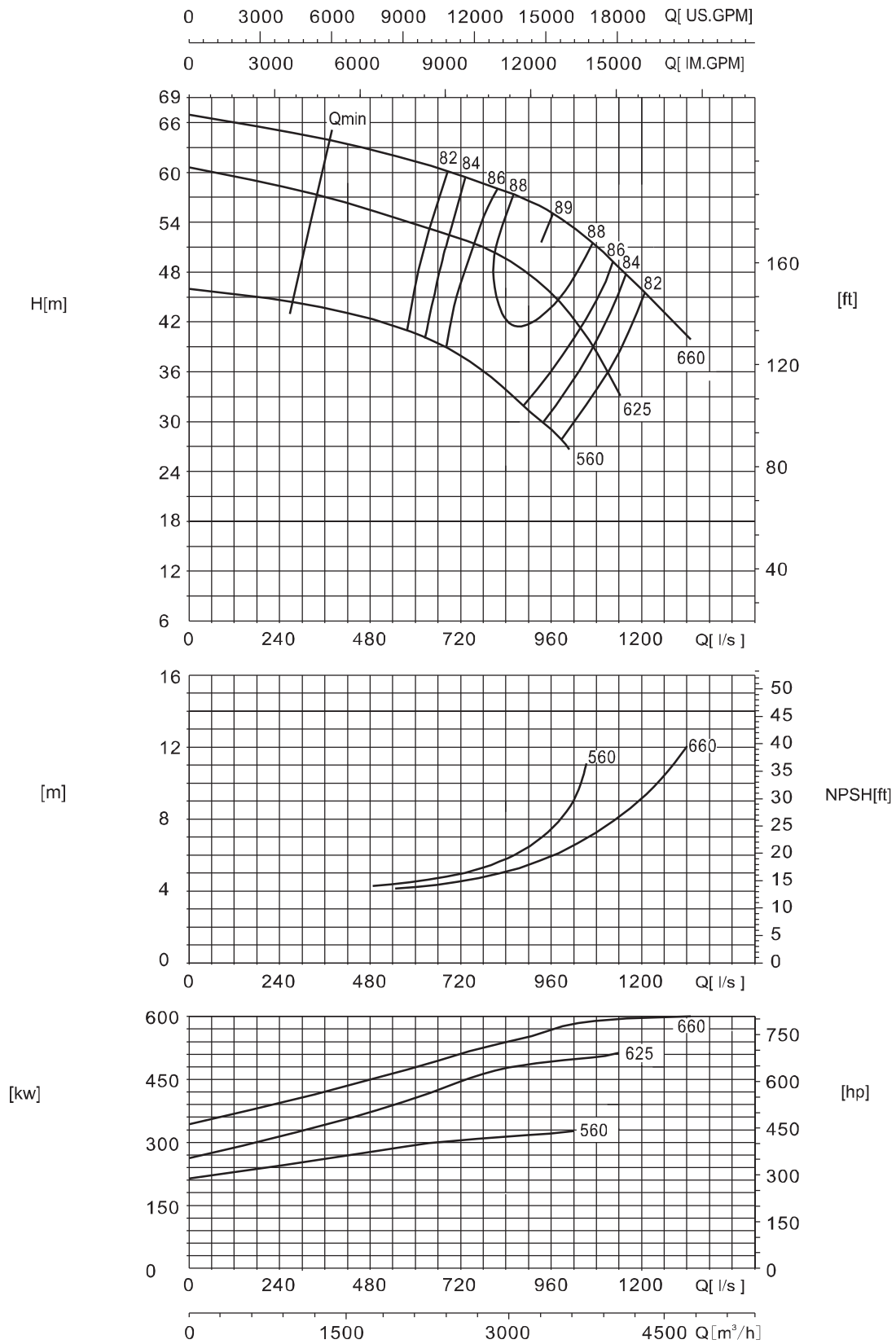
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 600-450-640

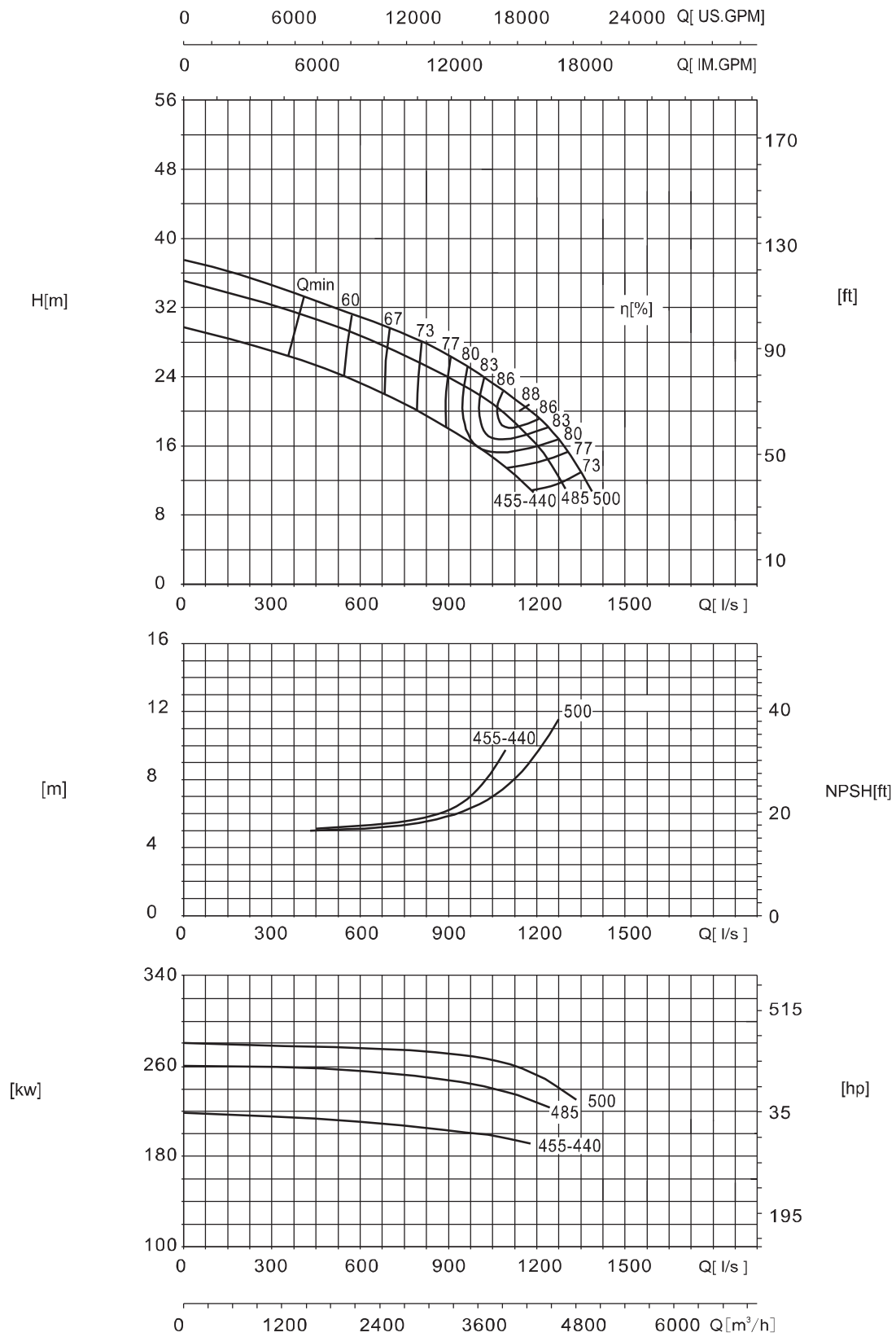
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 600-500-470

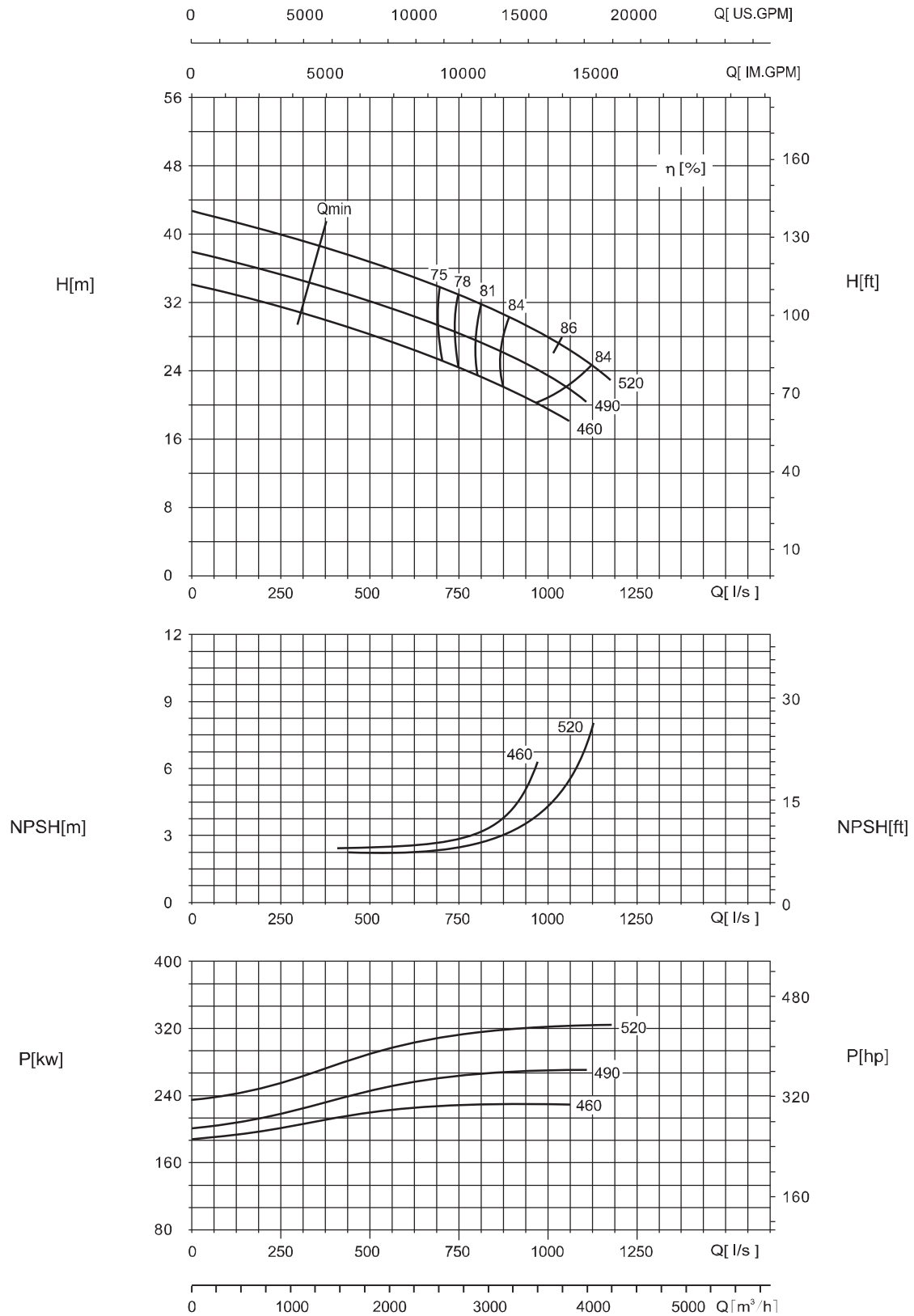
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 600-500-520

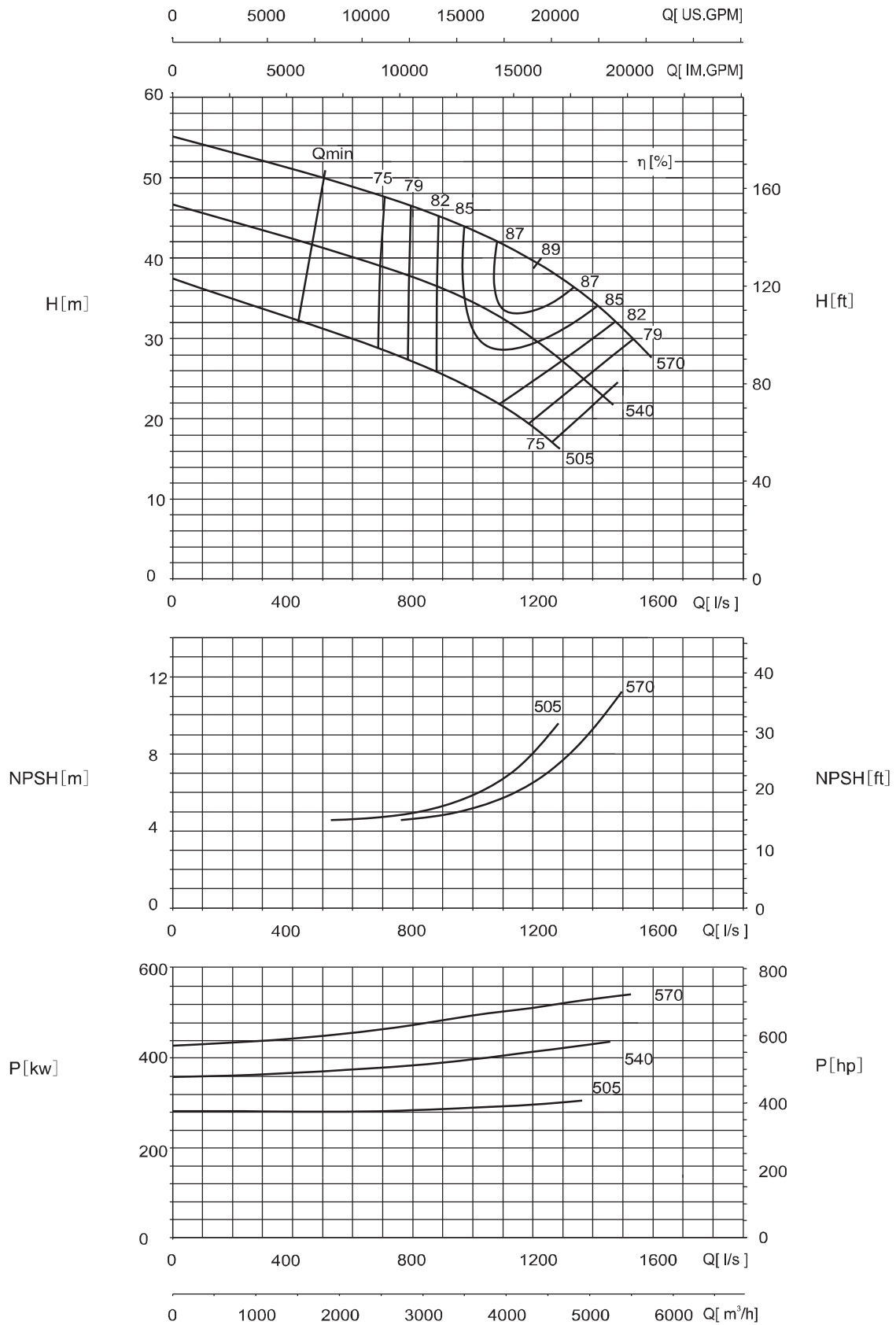
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 600-500-550/580

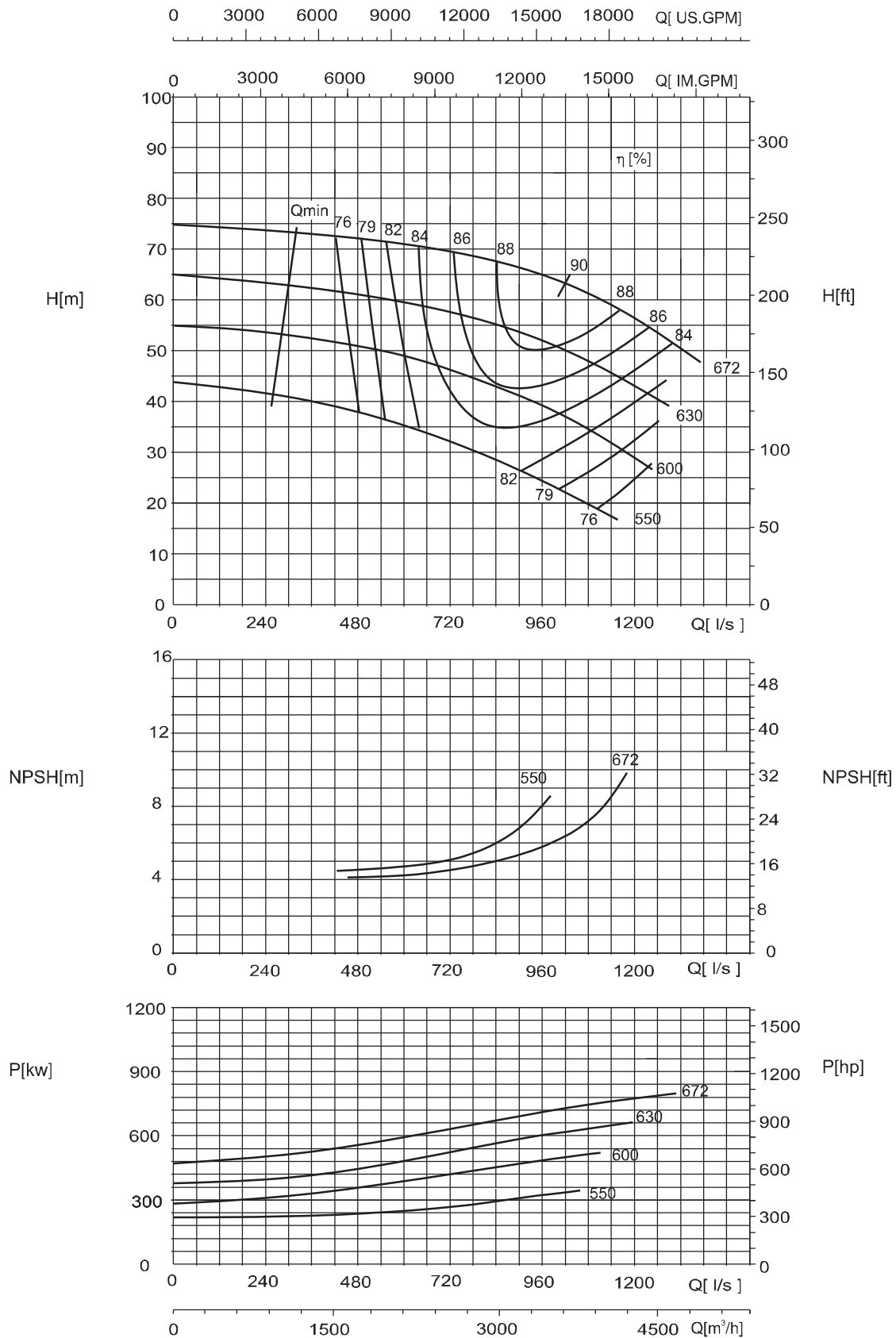
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 700-500-670

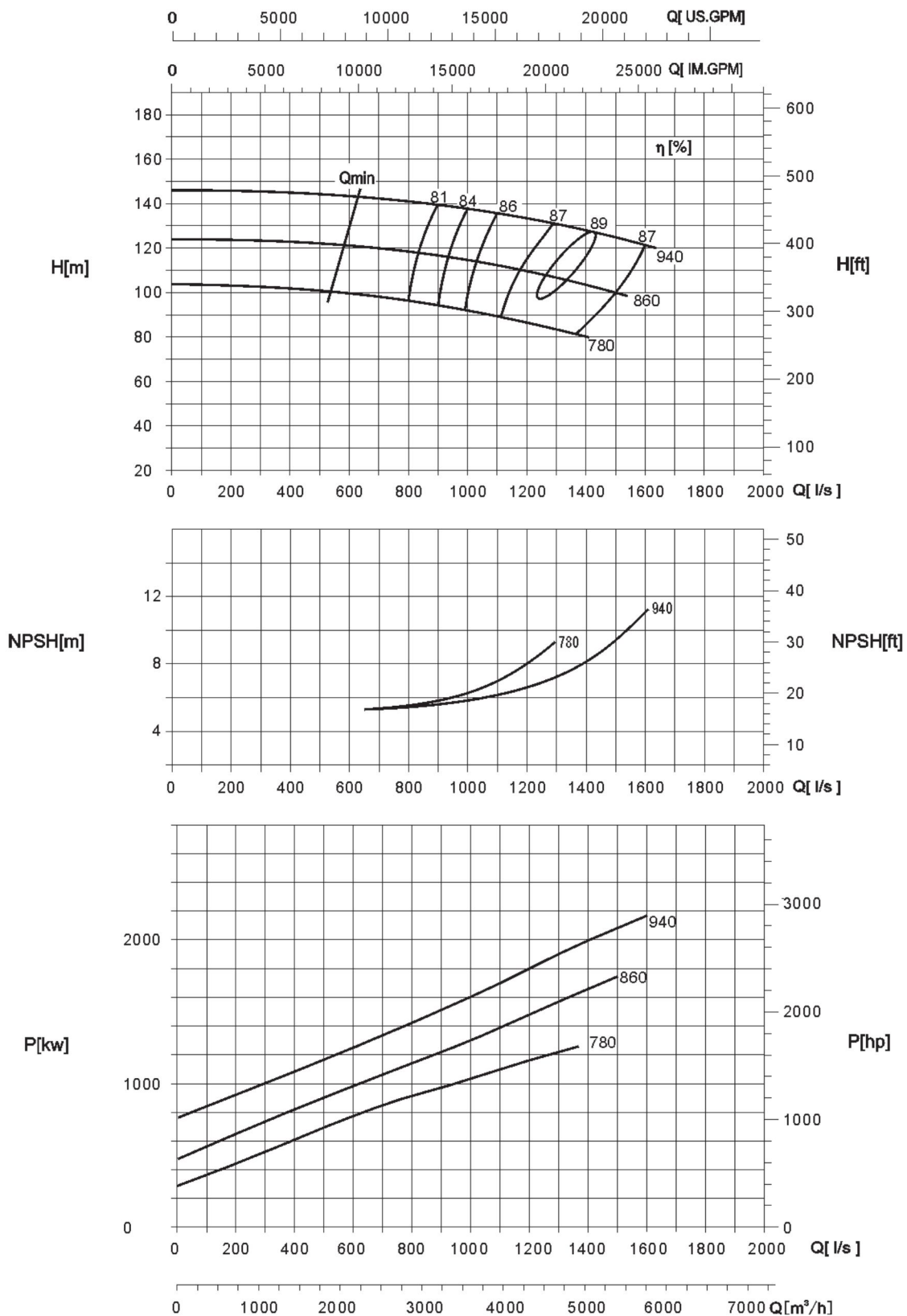
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 700-500-940

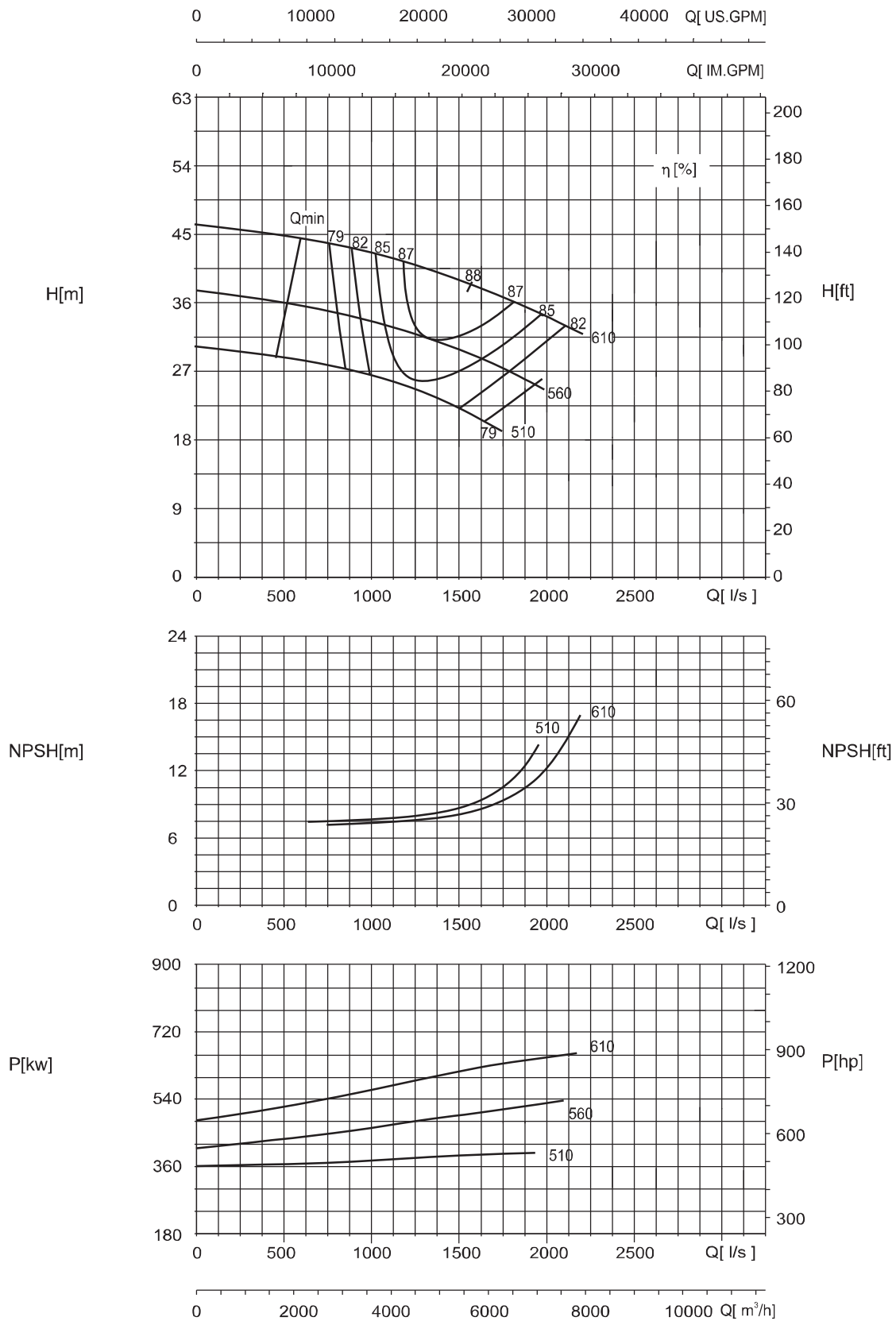
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 700-600-600

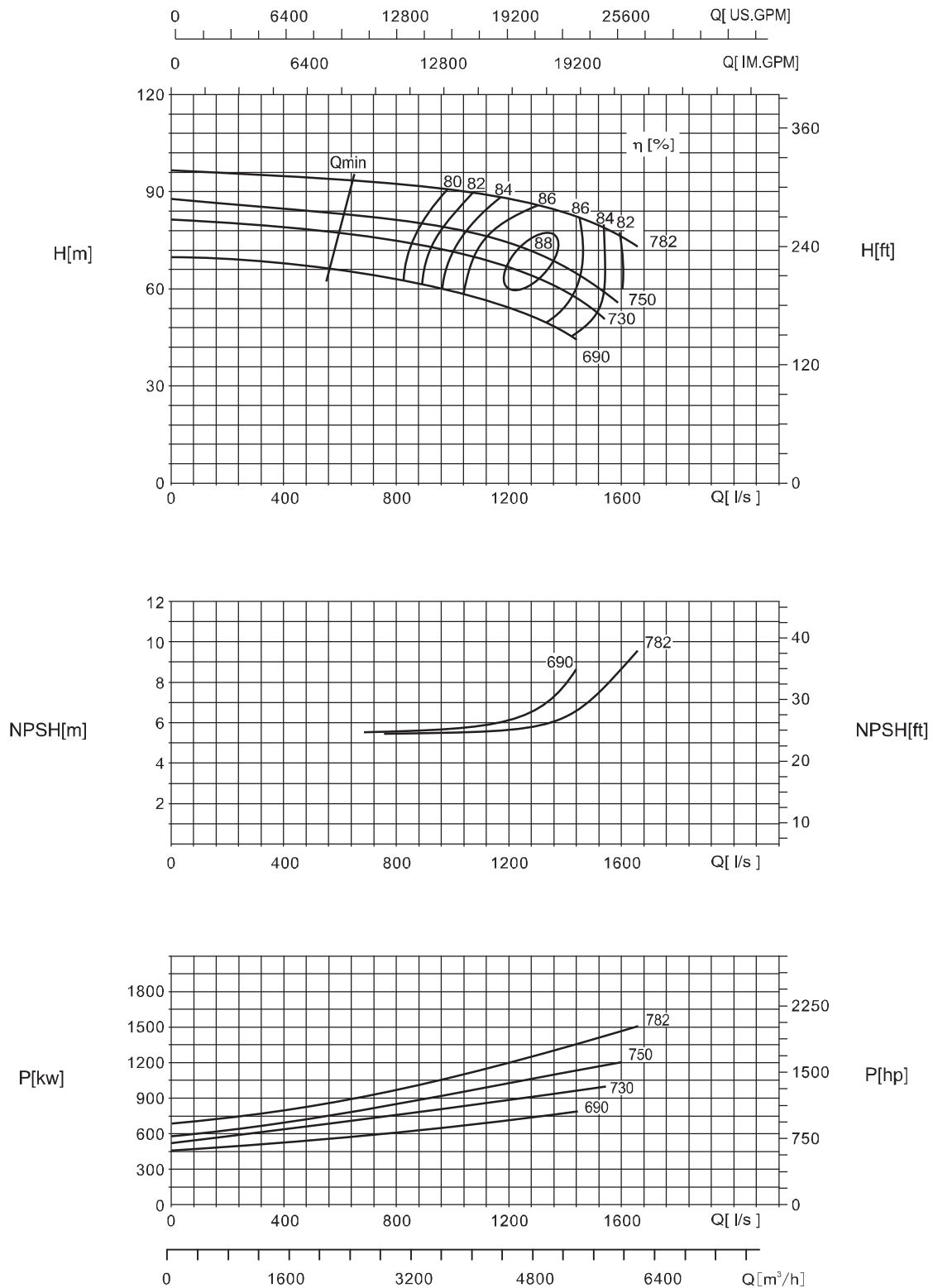
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 700-600-740

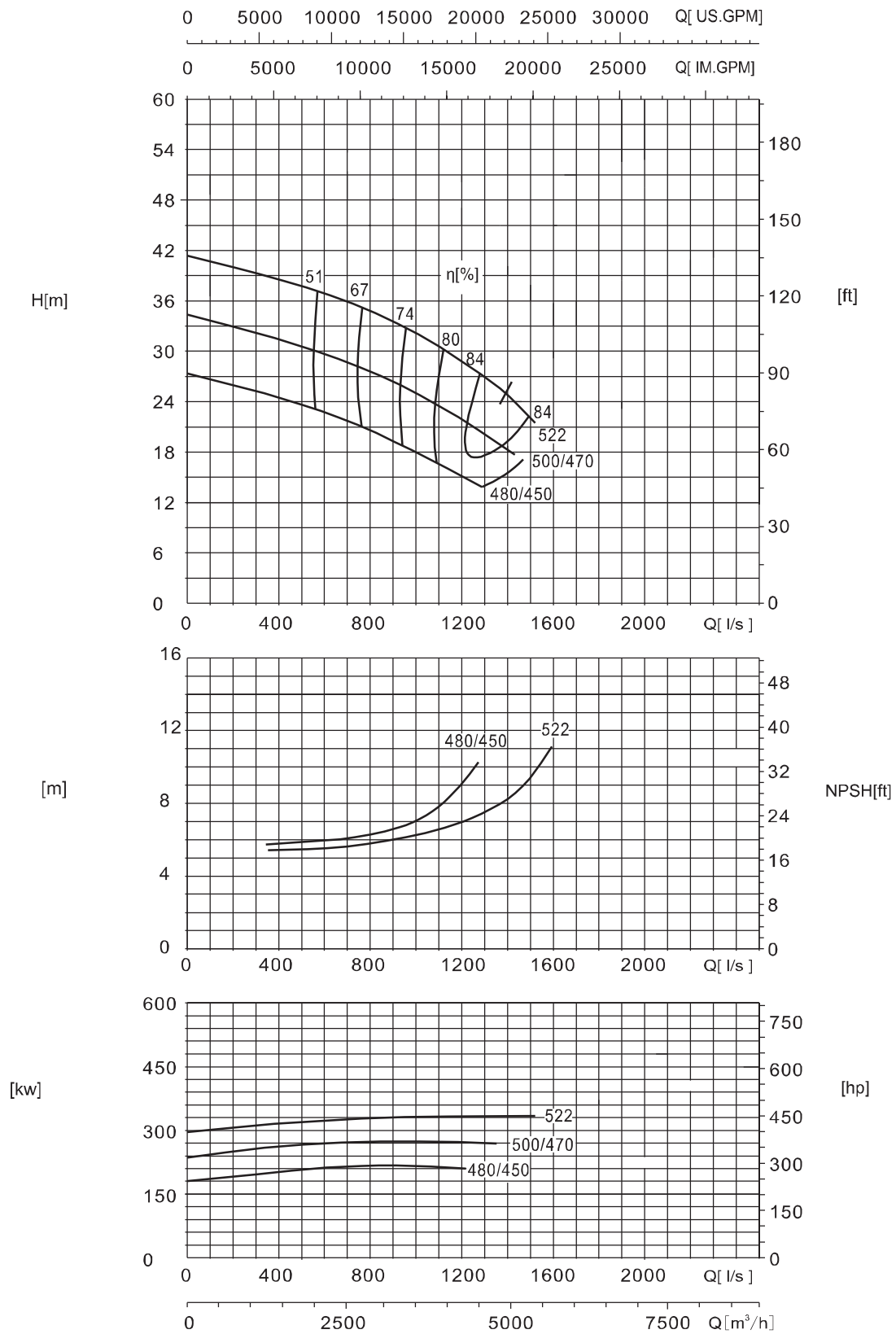
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 700-700-500

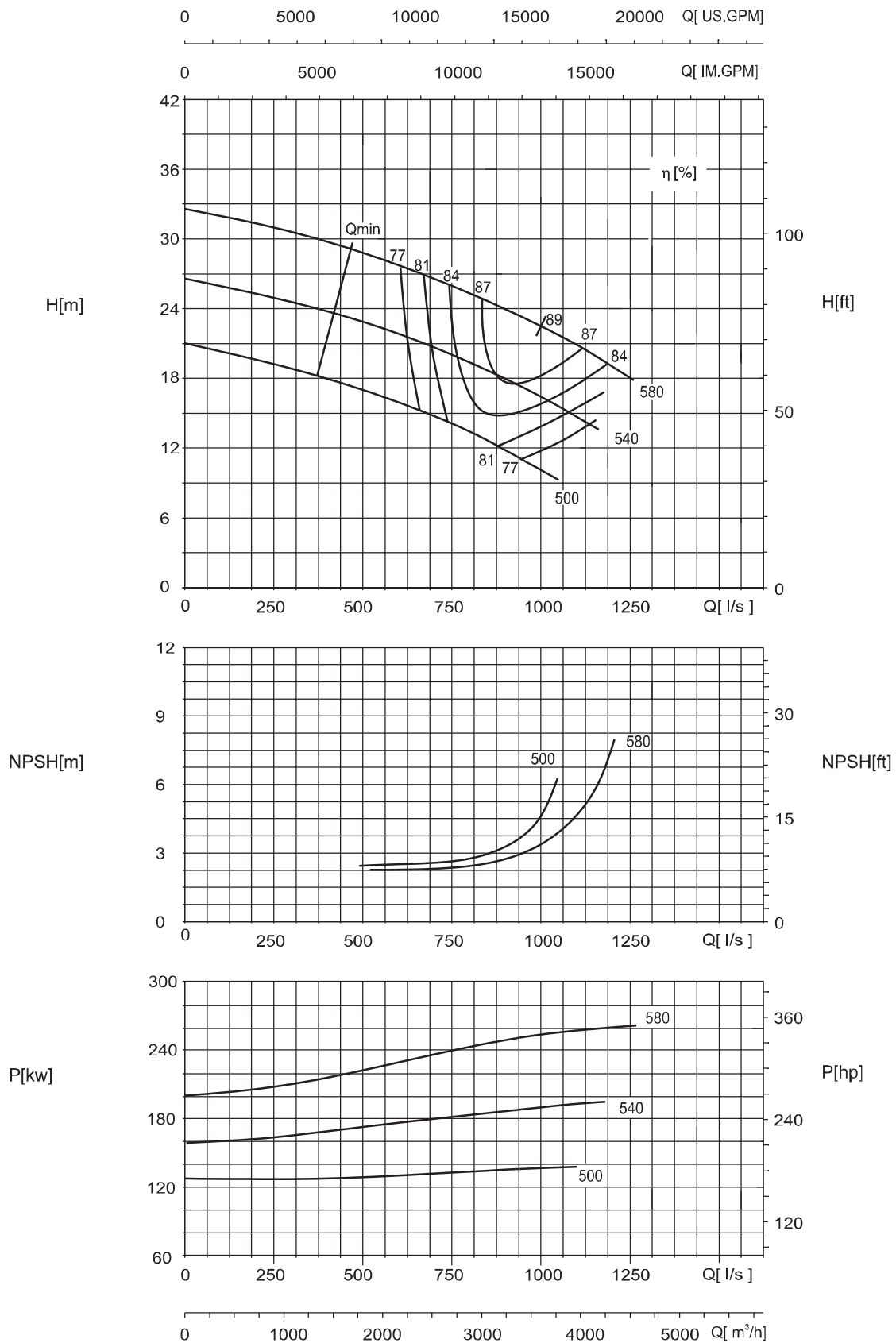
980 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 600-500-550/580

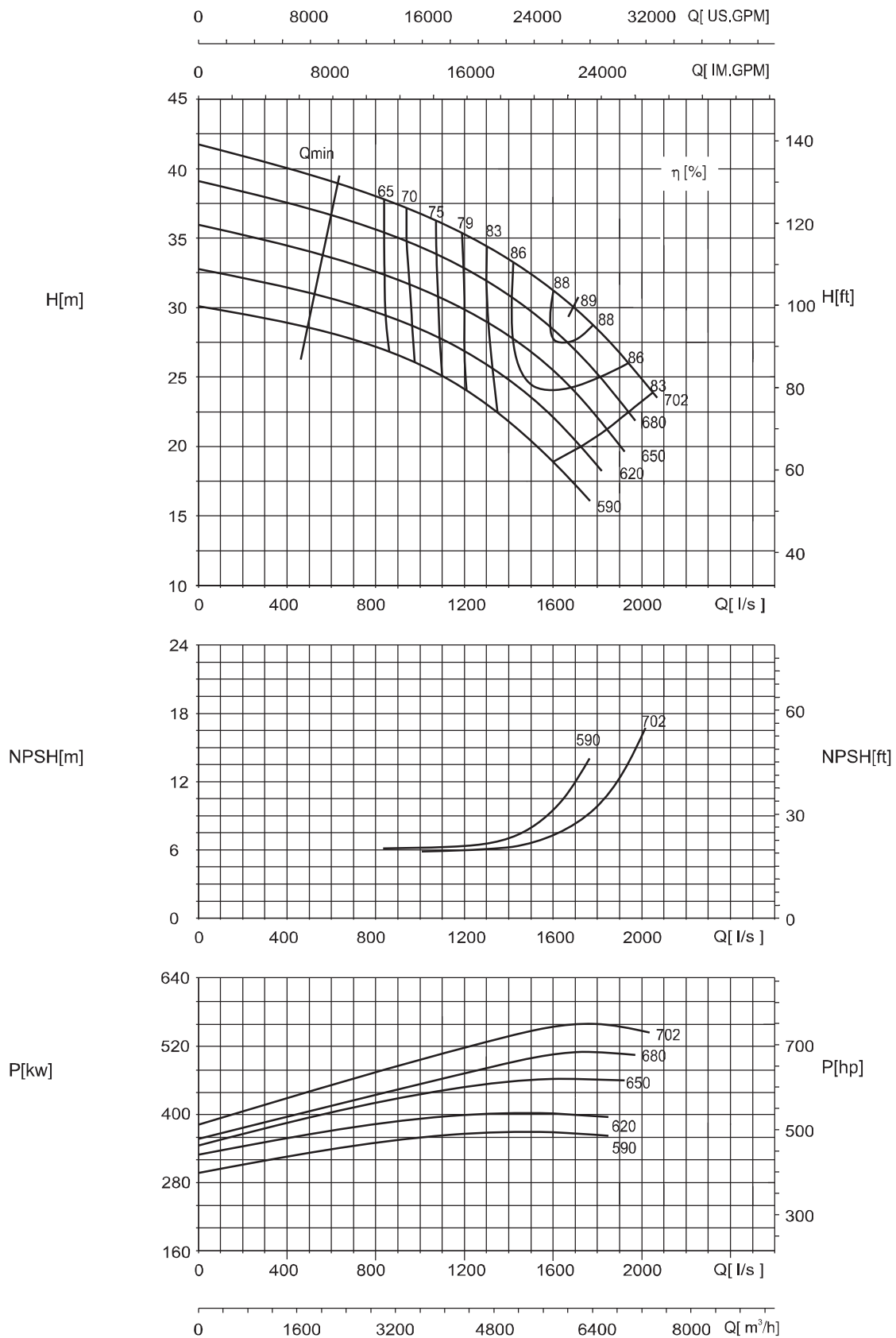
740 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 700-600-680

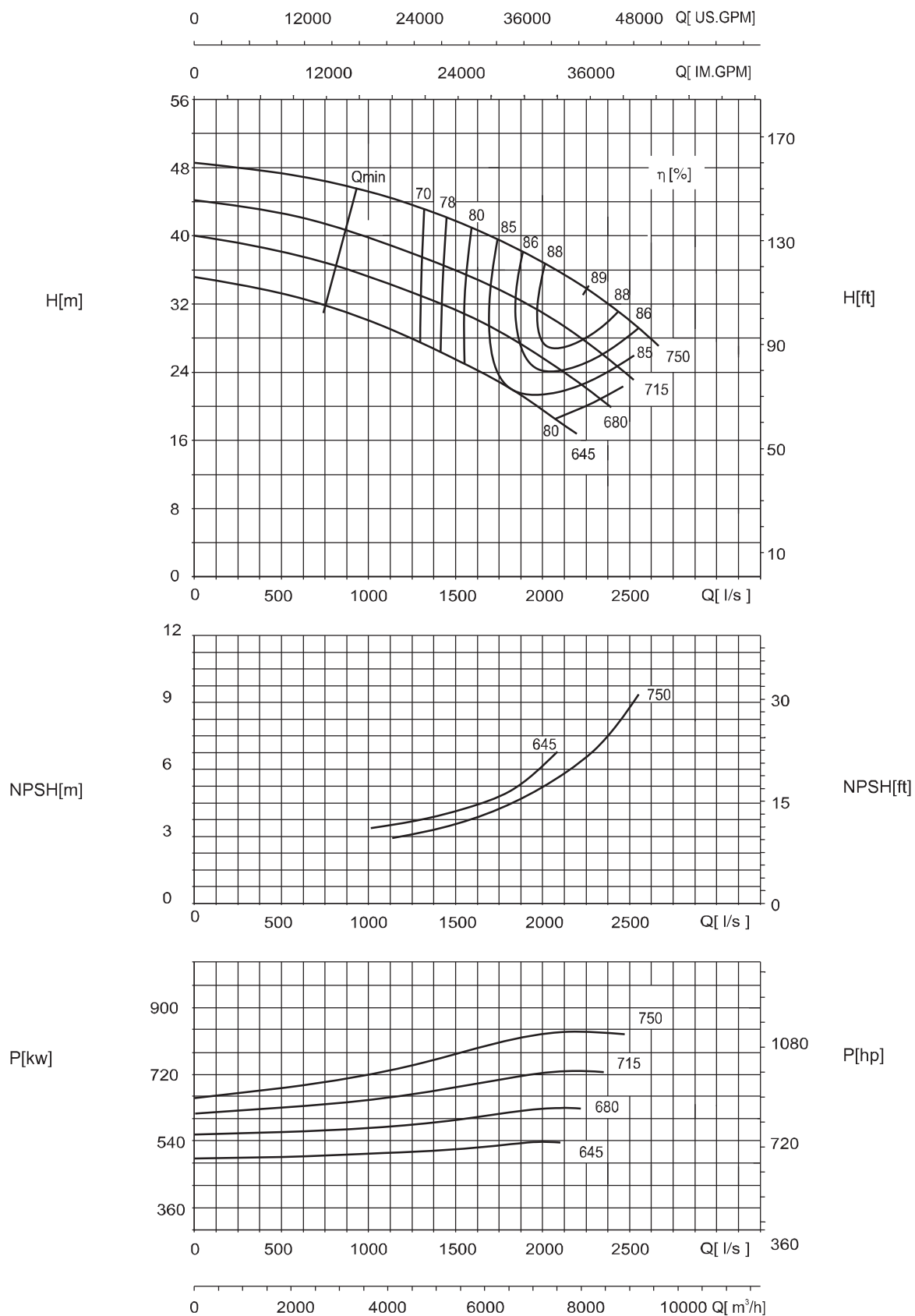
740 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 800-700-750

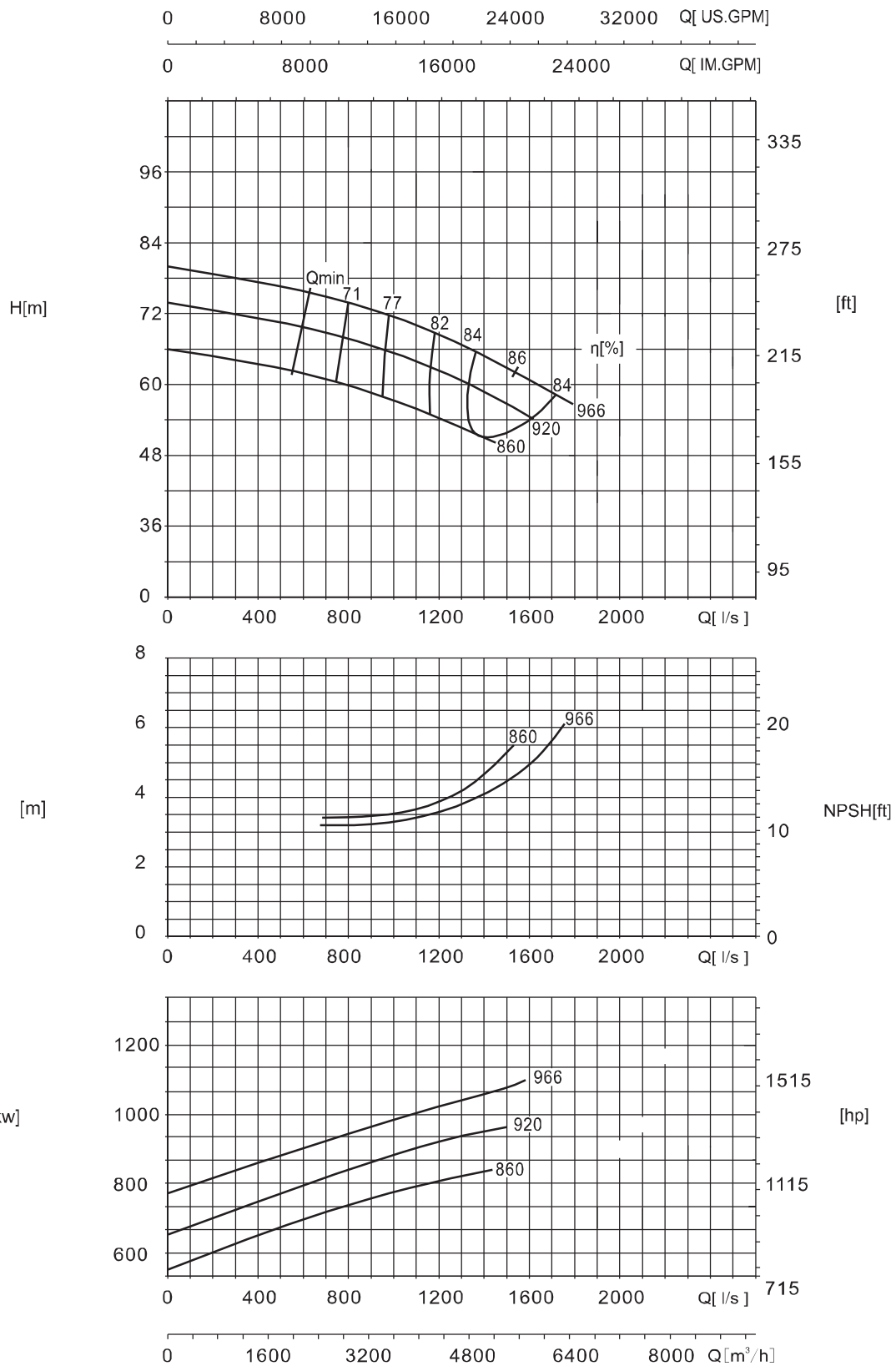
740 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 800-700-910L (Low Cavitation Impeller)

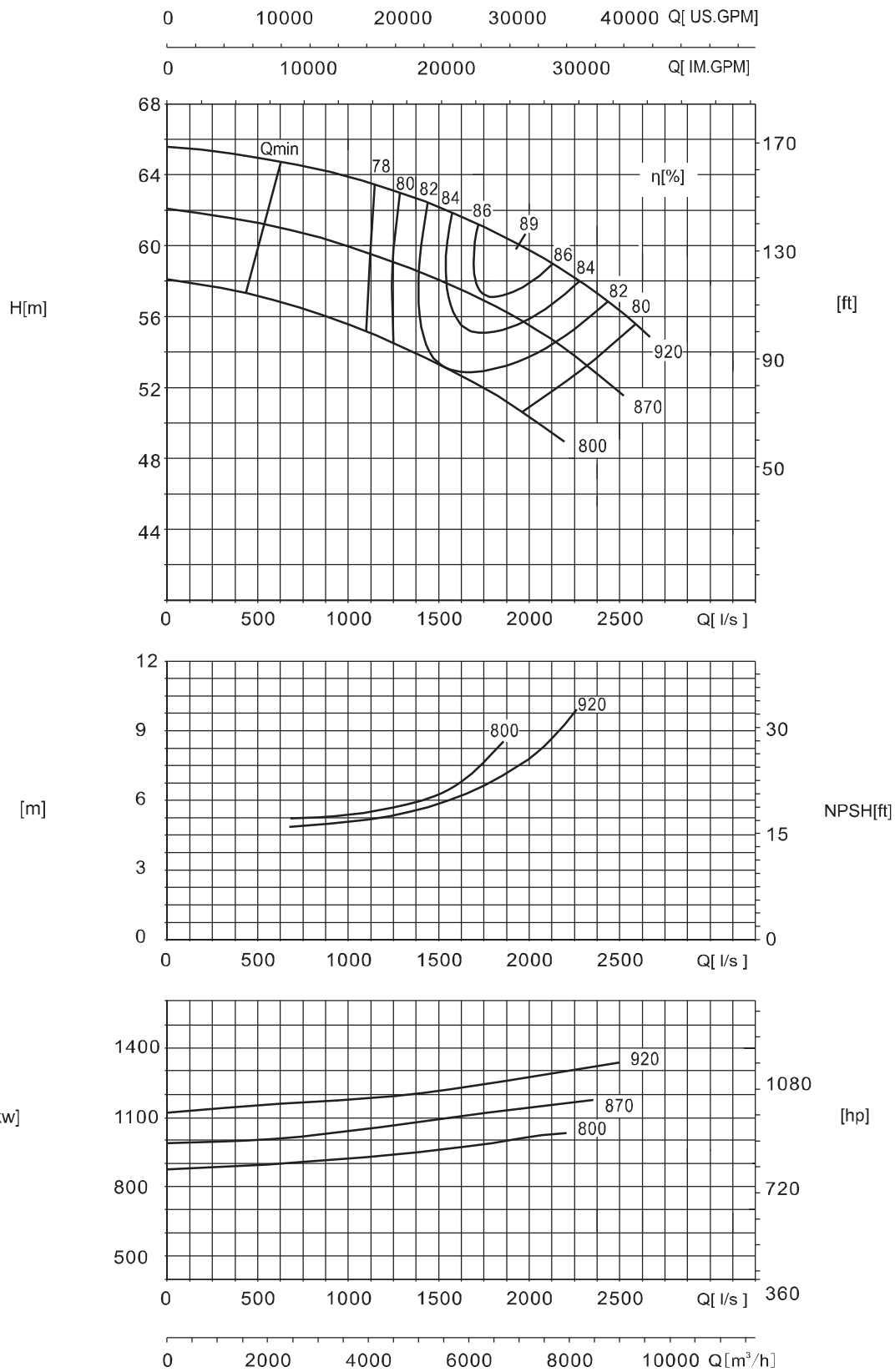
740 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 800-700-910H (High Efficiency Impeller)

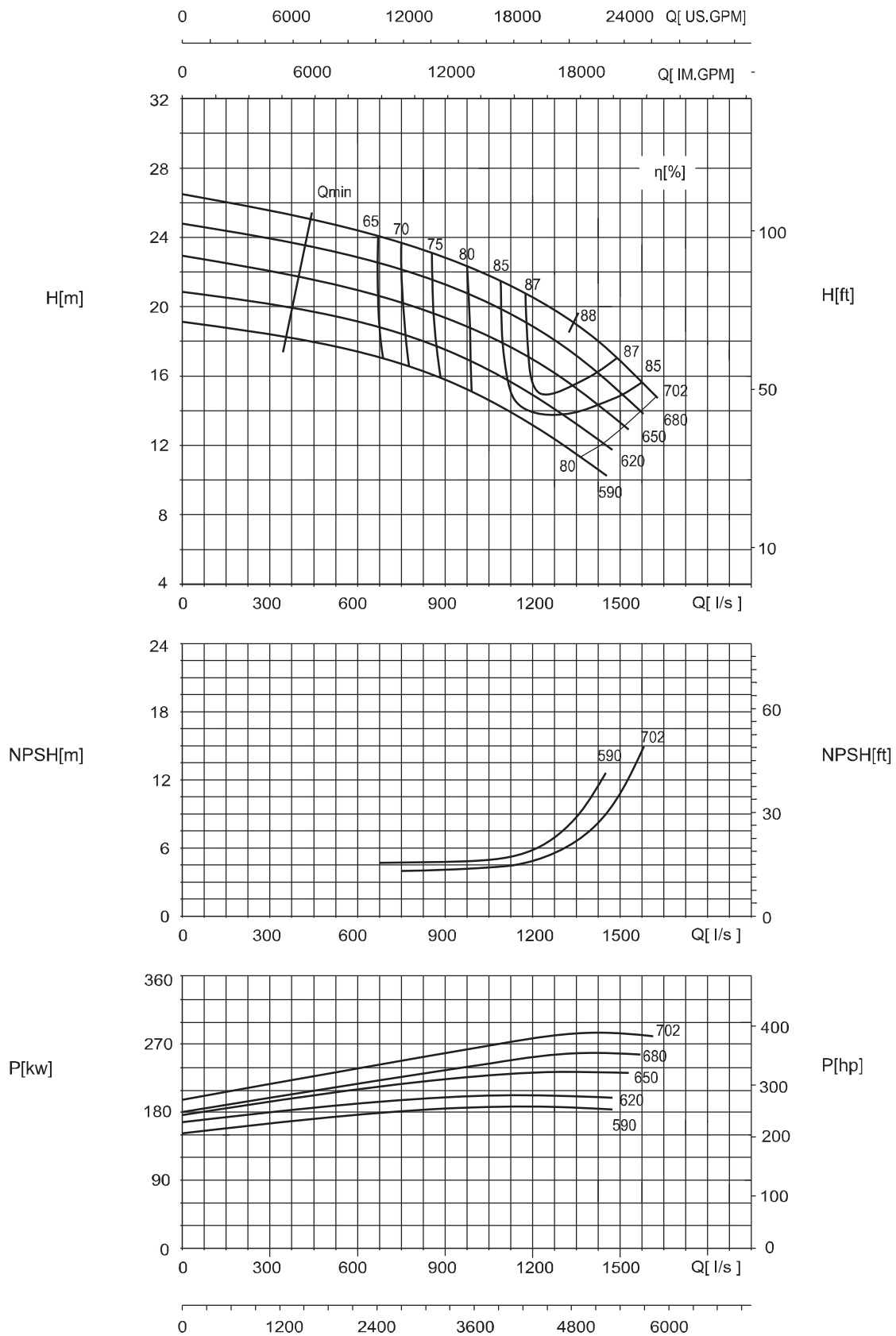
740 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 700-600-680

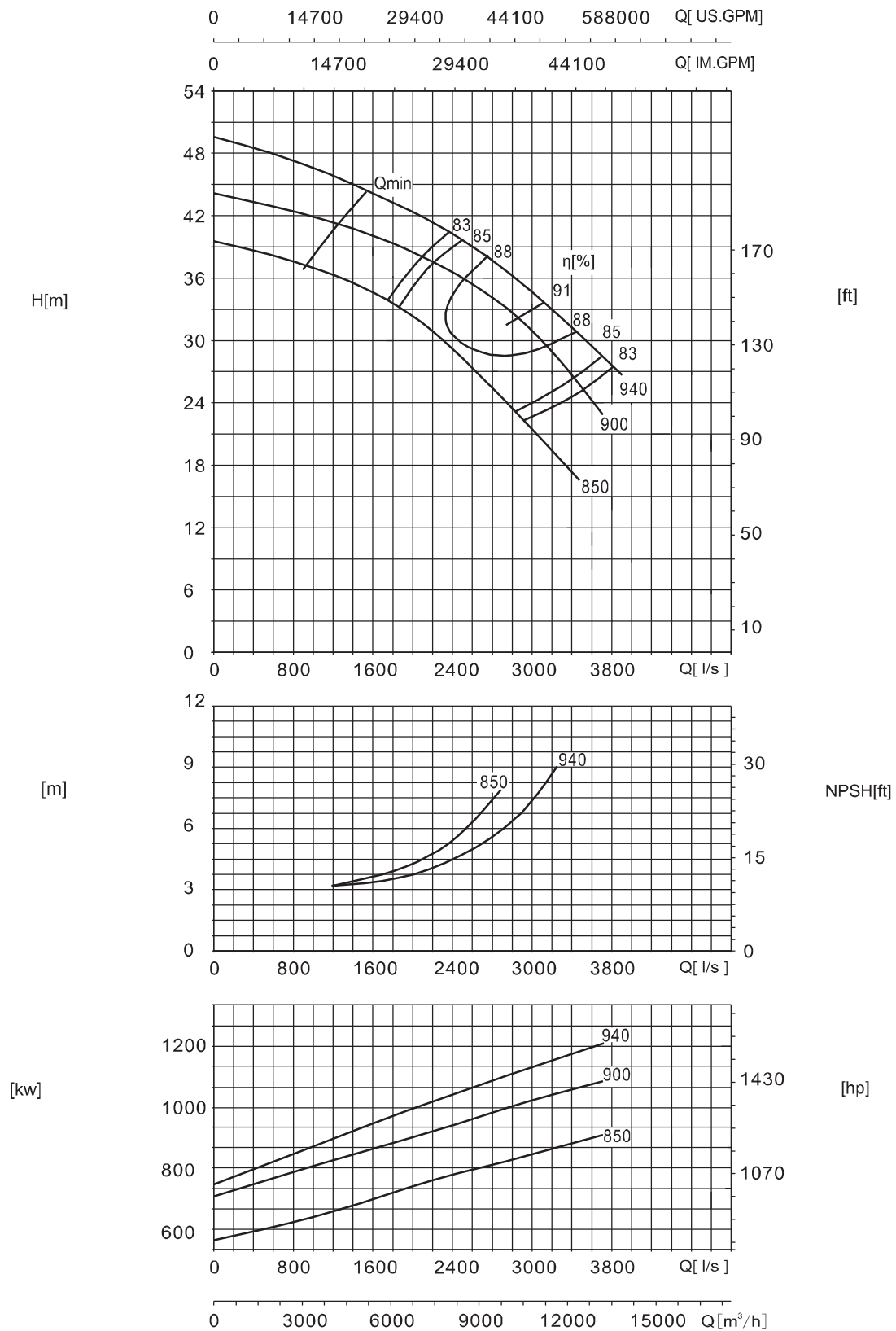
590 r/min



Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

NSC 1000-800-940

590 r/min

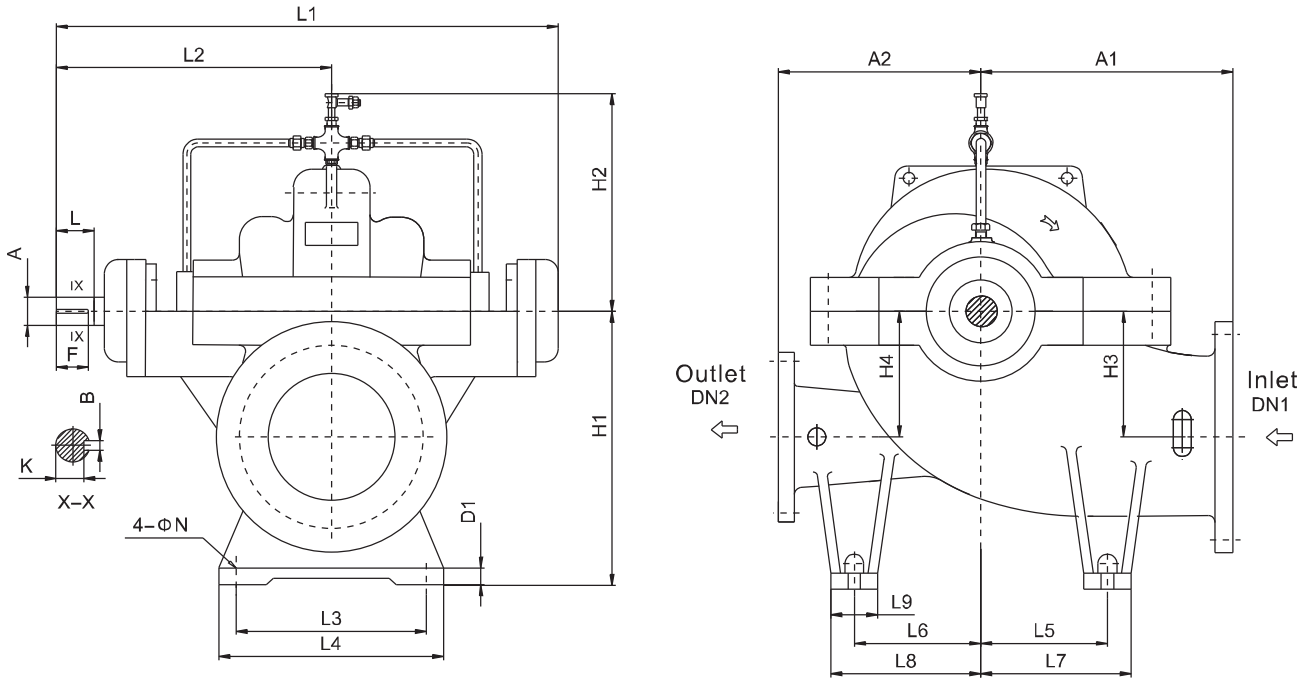


Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

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	440.5	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
NSC150-100-400G	370	370	355	260	170	170	788.9	440.5	270	320	200	200	245	245	90	30	18	40	105	12	35	100
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	280	280	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	600	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	600	404	300	300	1006.1	569.3	430	480	300	270	340	310	80	30	25	55	112.7	16	49	100
NSC300-250-280	500	450	600	404	300	300	1006.1	569.3	430	480	300	270	340	310	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)

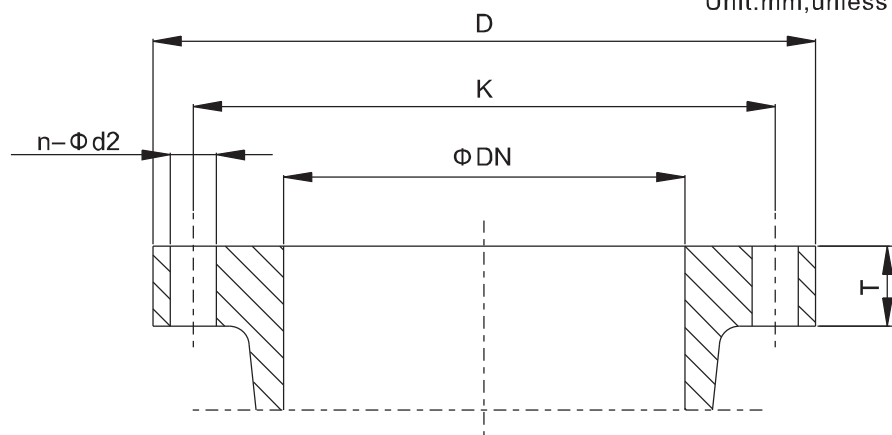
Unit: mm, unless otherwise stated

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	600	400	400	1533	870	600	700	350	350	425	425	150	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	35	25	65	143.2	18	58	135
NSC350-300-400	630	560	630	450	320	320	1243	696	480	560	350	350	415	415	130	35	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	750	650	710	530	350	350	1527	870	520	600	475	475	525	525	100	40	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	40	25	85	172.5	22	76	165
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
NSC400-350-380	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
NSC450-450-350	700	550	700	520	370	370	1308.5	737.5	700	800	330	330	380	380	100	35	25	75	143.5	20	67.5	135
NSC500-300-920	900	900	850	615	400	400	1909	1088	780	940	500	500	620	620	240	40	42	115	210	32	104	180
NSC500-300-780	800	750	800	535	400	400	1900	1055	580	740	450	450	570	570	240	45	35	115	210	30	104	180
NSC500-400-400	765	600	785	537	420	400	1438.5	821.5	560	640	400	400	460	460	120	35	30	75	143.5	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	143.5	20	67.5	135
NSC500-400-540	700	700	820	600	420	420	1773	1009	780	940	400	400	520	520	240	40	35	100	210	28	90	180
NSC500-400-590	900	750	850	700	470	470	1527	870	780	940	400	400	520	520	240	40	35	85	172.5	22	76	165
NSC500-400-660	850	750	850	641	450	450	1773	1000	780	940	500	400	620	520	240	40	35	100	210	28	90	180
NSC500-400-675	850	750	850	641	450	450	1527	870	780	940	500	400	620	520	240	40	35	85	172.5	22	76	165
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
NSC600-400-850	1030	880	1000	600	500	500	2009	1138	880	1060	600	600	730	730	260	50	42	115	210	32	104	180
NSC600-450-640	1000	800	970	690	510	510	1773	1009	780	940	525	525	650	650	250	50	42	100	210	28	90	180
NSC600-500-470	1020	740	970	737	550	525	1790	984	780	940	360	360	480	480	240	40	35	95	170	25	71	130
NSC600-500-520	1020	740	970	737	550	525	1790	984	780	940	360	360	480	480	240	40	35	95	170	25	71	130
NSC600-500-550	1020	740	970	737	550	525	1790	984	780	940	360	360	480	480	240	40	35	80	142	22	71	130
NSC600-500-580	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
NSC700-500-940	1050	950	1150	695	650	650	2308	1225	980	1100	700	600	810	710	220	50	42	130	250	32	119	245
NSC700-600-600	1050	850	1100	800	610	610	1935	1090	780	940	725	575	850	700	250	50	42	100	210	28	90	180
NSC700-600-680	1150	850	1100	800	610	610	1935	1090	780	940	725	575	850	700	250	50	42	100	210	28	90	180
NSC700-600-740	1160	1100	1070	725	570	570	1909	1088	880	1060	630	630	760	760	260	50	42	115	210	32	104	180
NSC700-700-500	1000	800	1000	640	530	530	1730	960	940	1100	625	425	750	550	2500	50	42	85	170	22	76	165
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
NSC800-700-910	1150	1150	1250	890	700	700	2318	1278	1000	1200	725	725	875	875	300	50	42	130	250	32	119	245
NSC1000-800-940	1450	1200	1500	1060	810	810	2700	1460	1250	1400	850	850	1000	1000	300	60	50	130	250	32	119	245

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

Standard Flange Dimensions

Unit:mm,unless other wise stated



Note: Other flange designs are available on request

Dimensions—Flange

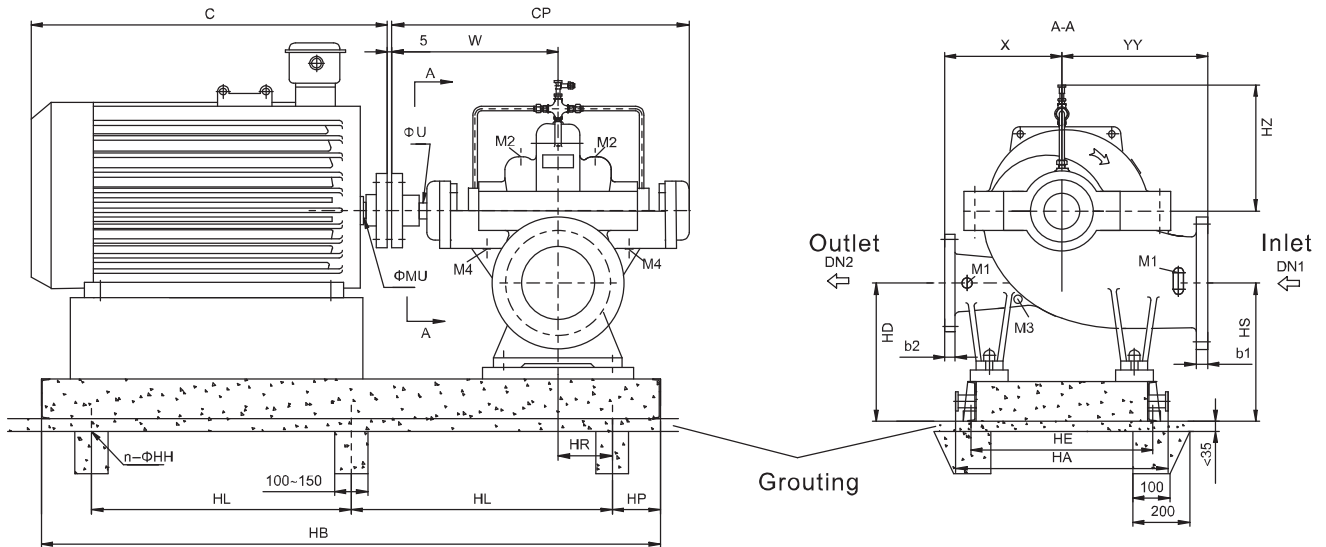
Model	ISO 7025/2 DIN2501	Suction flange						Discharge flange					
		DN	D(mm)	T(mm)	K(mm)	d2(mm)	n	DN	D(mm)	T(mm)	K(mm)	d2(mm)	n
NSC125-80-210 NSC125-80-270 NSC125-80-350	PN16	125	250	26	210	19	8	80	200	22	160	19	8
NSC150-100-250 NSC150-100-320 NSC150-100-400	PN16	150	285	26	240	23	8	100	220	24	180	19	8
NSC150-100-400G	PN40	150	300	26	250	28	8	100	235	19	190	23	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	PN16	200	340	30	295	23	12	150	285	26	240	23	8
NSC200-150-570	PN25	200	360	34	310	28	12	150	300	34	250	28	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 NSC350-300-400	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
NSC450-450-350	PN10	450	615	35	565	28	20	450	615	35	565	28	20
NSC500-400-400 NSC500-400-420	PN10	500	670	34	620	28	20	400	565	32	515	28	16
NSC500-300-780	PN40	500	755	64	670	42	20	300	515	50	450	33	16
NSC500-300-920	PN25	500	730	56	660	36	20	300	485	38	430	30	16
NSC500-400-590 NSC500-400-675	PN10	500	670	34	620	28	20	400	565	32	515	28	16
NSC500-400-500 NSC500-400-540	PN16	500	715	42	650	34	20	400	580	38	525	31	16
NSC500-400-660 NSC600-500-470 NSC600-500-520 NSC600-500-550 NSC600-500-580	PN25	500	730	52	660	37	20	400	620	48	550	37	16
NSC600-400-740	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
NSC700-500-940	PN25	700	960	60	875	43	24	500	730	52	660	37	20
NSC700-600-600 NSC700-600-680	PN10	700	895	40	840	31	24	600	780	36	725	31	20
NSC700-600-740	PN16	700	910	54	840	36	24	600	840	48	770	37	20
NSC700-700-500	PN10	700	895	40	840	31	24	700	895	40	840	31	24
NSC800-700-750	PN10	800	1015	44	950	34	24	700	895	40	840	31	24
NSC800-700-910	PN16	800	1015	44	950	34	24	700	910	54	840	36	24
NSC1000-800-940	PN10	1000	1230	50	1160	36	28	800	1015	44	950	34	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 contact with 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 (r/min)	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	1480	1.5	90L	788.9	35	440.5	300	300	270	340	24	930	120	340	305	570	470	6	20	80	180	27	105	312
		3	100L							380	28	960	120	360	305	570	470	6	20	80	180	33	105	318
		4	112M							400	28	970	120	360	305	570	470	6	20	80	180	45	110	335
		5.5	132S							475	38	1020	120	390	305	570	470	6	20	80	180	61	110	351
	2980	15	160M							605	42	1140	120	450	305	570	470	6	20	80	180	106	120	406
		18.5	160L							605	42	1180	120	470	305	570	470	6	20	80	180	125	125	430
		22	180M							670	48	1190	120	470	305	570	470	6	20	80	180	152	120	452
		37	200L							775	55	1270	120	510	305	570	470	6	20	80	180	245	125	550
		45	225M							815	55	1290	120	520	305	570	470	6	20	80	180	307	125	612
		3	100L							380	28	960	120	360	305	570	470	6	20	80	185	33	100	317
		4	112M							400	28	970	120	360	305	570	470	6	20	80	185	45	102	331
		5.5	132S							475	38	1020	120	390	305	570	470	6	20	80	185	61	104	349
		7.5	132M							515	38	1060	120	410	305	570	470	6	20	80	185	73	108	365
		11	160M							605	42	1140	120	450	305	570	470	6	20	80	185	103	111	398
		15	160L							650	42	1180	120	470	305	570	470	6	20	80	185	130	116	430
NSC125-80-270	1480	22	180M							670	48	1190	120	470	305	570	470	6	20	80	185	152	113	449
		37	200L							775	55	1270	120	510	305	570	470	6	20	80	185	245	117	546
		45	225M							815	55	1290	120	520	305	570	470	6	20	80	185	307	115	606
		55	250M							930	60	1390	120	570	305	600	500	6	20	80	185	378	120	682
		75	280S							1000	65	1460	120	610	305	670	540	6	20	80	185	550	129	863
		90	280M							1050	65	1510	120	630	305	670	540	6	20	80	185	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 (r/min)	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	1480	5.5	132S	788.9	35	440.5	330	330	333	475	38	1020	120	390	315	570	470	6	20	80	205	61	106	373							
		7.5	132M							515	38	1060	120	410	315	570	470	6	20	80	205	73	109	388							
		11	160M							605	42	1140	120	450	315	570	470	6	20	80	205	103	112	421							
		15	160L							650	42	1180	120	470	315	570	470	6	20	80	205	130	117	453							
		18.5	180M							670	48	1190	120	470	315	570	470	6	20	80	205	165	114	485							
		22	180L							710	48	1240	120	500	315	570	470	6	20	80	205	180	117	503							
NSC150-100-250	1480	3	100L	788.9	35	440.5	330	330	328	380	28	960	120	360	325	600	500	6	20	80	220	33	106	357							
		4	112M							400	28	970	120	360	325	600	500	6	20	80	220	45	108	371							
		5.5	132S							475	38	1020	120	390	325	600	500	6	20	80	220	61	111	390							
		7.5	132M							515	38	1060	120	410	325	600	500	6	20	80	220	73	115	406							
		11	160M							605	42	1140	120	450	325	600	500	6	20	80	220	103	120	441							
		15	160L							650	42	1180	120	470	325	600	500	6	20	80	220	130	125	473							
	2980	22	180M	670	48	1190	120	470	325	600	500	6	20	80	220	152	122	492													
		37	200L	775	55	1270	120	510	325	600	500	6	20	80	220	245	127	590													
		45	225M	815	55	1290	120	520	325	600	500	6	20	80	220	307	126	651													
		55	250M	930	60	1390	120	570	325	600	500	6	20	80	220	378	132	728													
		75	280S	1000	65	1460	120	610	325	670	540	6	20	80	220	550	131	899													
		90	280M	1050	65	1510	120	630	325	670	540	6	20	80	220	570	136	924													
		110	315S	1240	65	1550	120	650	325	790	690	6	20	80	220	740	156	1114													
		NSC150-100-320	7.5	132M	788.9	35	440.5	330	330	342	515	38	1060	120	410	325	600	500	6	20	80	235	73	115	418						
			11	160M							605	42	1140	120	450	325	600	500	6	20	80	235	103	120	453						
			15	160L							650	42	1180	120	470	325	600	500	6	20	80	235	130	125	485						
18.5	180M		670	48							1190	120	470	325	600	500	6	20	80	235	165	122	517								
22	180L		710	48							1270	120	510	325	600	500	6	20	80	235	180	126	536								
30	200L		775	55							1290	120	520	325	600	500	6	20	80	235	238	127	595								
55	250M		930	60							1390	120	570	325	600	500	6	20	80	235	378	132	740								
75	280S		1000	65							1460	120	610	325	670	540	6	20	80	235	550	131	911								
90	280M		1050	65							1510	120	630	325	670	540	6	20	80	235	570	136	936								
110	315S		1240	65							1550	120	650	325	790	690	6	20	80	235	740	155	1125								
NSC150-100-400	11	160M	788.9	35	440.5	370	370	260	605	42	1140	120	450	325	600	500	6	20	80	245	103	121	462								
	15	160L							650	42	1180	120	470	325	600	500	6	20	80	245	130	126	494								
	18.5	180M							670	48	1190	120	470	325	600	500	6	20	80	245	165	123	526								
	195	180L							710	48	1240	120	500	325	600	500	6	20	80	245	180	127	545								
	30	200L							775	55	1270	120	510	325	600	500	6	20	80	245	238	128	604								
	37	225S							820	60	1300	120	530	325	600	500	6	20	80	245	298	125	661								
	45	225M							847	60	1320	120	520	325	600	500	6	20	80	245	322	127	687								
	55	250M							930	65	1390	120	570	325	600	500	6	20	80	245	410	133	781								
	NSC200-125-240	1480							5.5	132S	871	45	500	370	370	300	475	38	1140	150	420	360	600	500	6	20	110	295	61	128	483
									7.5	132M							515	38	1180	150	440	360	600	500	6	20	110	295	73	132	499
11			160M	605	42	1260	150	480	360	600							500	6	20	110	295	103	138	535							
15			160L	650	42	1300	150	500	360	600							500	6	20	110	295	130	144	568							
18.5			180M	670	48	1310	150	500	360	600							500	6	20	110	295	165	141	600							
22			180L	710	48	1360	150	530	360	600							500	6	20	110	295	180	146	620							
2980		45	225M	815	55	1410	150	550	360	600	500	6	20	110	295	307	149	750													
		55	250M	930	60	1510	150	600	360	600	500	6	20	110	295	378	156	828													
		75	280S	1000	65	1580	150	640	360	670	540	6	20	110	295	550	163	1007													
		90	280M	1050	65	1630	150	660	360	670	540	6	20	110	295	570	169	1033													
		110	315S	1240	65	1660	150	680	360	790	690	6	20	110	295	740	185	1219													
		132	315M	1310	65	1750	150	720	360	790	690	6	20	110	295	855	197	1346													
		NSC200-125-300	1480	7.5	132M	871	45	500	370	370	325	515	38	1180	150	440	360	680	580	6	20	110	310	73	135	520					
				11	160M							605	42	1260	150	480	360	680	580	6	20	110	310	103	142	557					
				15	160L							650	42	1300	150	500	360	680	580	6	20	110	310	130	147	589					
				18.5	180M							670	48	1310	150	500	360	680	580	6	20	110	310	165	145	622					
22	180L			710	48							1360	150	530	360	680	580	6	20	110	310	180	150	642							
30	200L			775	55							1390	150	540	360	680	580	6	20	110	310	238	150	700							
2980	37	225S	820	60	1420	150	560	360	680	580	6	20	110	310	298	147	757														
	55	250M	930	60	1510	150	600	360	680	580	6	20	110	310	378	163	853														
	75	280S	1000	65	1580	150	640	360	680	580	6	20	110	310	550	163	1025														
	90	280M	1050	65	1630	150	660	360	680	580	6	20	110	310	570	169	1051														
	110	315S	1240	65	1660	150	680	360	790	690	6	20	110	310	740	185	1237														
	132	315M	1310	65	1750	150	720	360	790	690	6	20	110	310	855	197	1364														
	200	315L	1310	65	1770	150	730	360	790	690	6	20	110	310	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 otherwise stated

Model	Speed (r/min)	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	1480	15	160L	871	45	500	395	370	350	650	42	1290	150	490	360	670	540	6	20	95	350	130	152	632
		18.5	180M							670	48	1290	150	490	360	670	540	6	20	95	350	165	149	664
		22	180L							710	48	1340	150	520	360	670	540	6	20	95	350	180	154	684
		30	200L							775	55	1370	150	530	360	670	540	6	20	95	350	238	155	743
		37	225S							820	60	1400	150	550	360	670	540	6	20	95	350	298	152	800
		45	225M							845	60	1430	150	560	360	670	540	6	20	95	350	322	154	826
		55	250M							930	65	1500	150	600	360	670	540	6	20	95	350	410	162	922
		75	280S							1000	75	1560	150	630	360	670	540	6	20	95	350	555	169	1074
		30	200L							775	55	1370	150	530	360	790	690	6	20	95	390	238	161	789
NSC200-125-480	1480	37	225S	871	45	500	450	450	389	820	60	1400	150	550	360	790	690	6	20	95	390	298	158	846
		45	225M							845	60	1430	150	560	360	790	690	6	20	95	390	322	160	872
		55	250M							930	65	1500	150	600	360	790	690	6	20	95	390	410	168	968
		75	280S							1000	75	1560	150	630	360	790	690	6	20	95	390	555	176	1121
		90	280M							1050	75	1620	150	660	360	790	690	6	20	95	390	610	182	1182
		110	315S							1270	80	1680	150	690	360	790	690	6	20	95	390	750	192	1332
		132	315M							1340	80	1730	150	710	360	790	690	6	20	95	390	875	204	1469
		11	160M							605	42	1260	150	480	360	680	580	6	20	110	330	103	150	583
		15	160L							650	42	1300	150	500	360	680	580	6	20	110	330	130	150	610
NSC200-150-290	1480	18.5	180M	871	45	500	400	400	340	670	48	1310	150	500	360	680	580	6	20	110	330	165	160	655
		22	180L							710	48	1360	150	530	360	680	580	6	20	110	330	180	160	670
		30	200L							775	55	1390	150	540	360	680	580	6	20	110	330	238	170	738
		37	225S							820	60	1420	150	560	360	680	580	6	20	110	330	298	170	798
		45	225M							930	60	1440	150	570	360	680	580	6	20	110	330	322	170	822
		670	48							1310	150	500	360	680	580	6	20	110	330	165	160	655		
		710	48							1360	150	530	360	680	580	6	20	110	330	180	160	670		
		775	55							1390	150	540	360	680	580	6	20	110	330	238	170	738		
		820	60							1420	150	560	360	680	580	6	20	110	330	298	170	798		
NSC200-150-360	1480	45	225M	871	45	500	400	400	380	930	60	1440	150	570	360	680	580	6	20	110	330	322	170	822
		670	48							1310	150	500	360	680	580	6	20	110	330	165	160	655		
		710	48							1360	150	530	360	680	580	6	20	110	330	180	160	670		
		775	55							1390	150	540	360	680	580	6	20	110	330	238	170	738		
		820	60							1420	150	560	360	680	580	6	20	110	330	298	170	798		
		930	60							1440	150	570	360	680	580	6	20	110	330	322	170	822		
		1000	75							1560	150	630	360	790	690	6	20	95	390	555	176	1121		
		1050	75							1620	150	660	360	790	690	6	20	95	390	610	182	1182		
		1270	80							1680	150	690	360	790	690	6	20	95	390	750	192	1332		
NSC200-150-460	1480	1340	80	1730	150	710	360	790	690	6	20	95	390	875	204	1469								
		11	160M	605	42	1260	150	480	360	680	580	6	20	110	330	103	150	583						
		15	160L	650	42	1300	150	500	360	680	580	6	20	110	330	130	150	610						
		18.5	180M	670	48	1310	150	500	360	680	580	6	20	110	330	165	160	655						
		22	180L	710	48	1360	150	530	360	680	580	6	20	110	330	180	160	670						
		30	200L	775	55	1390	150	540	360	680	580	6	20	110	330	238	170	738						
		37	225S	820	60	1420	150	560	360	680	580	6	20	110	330	298	170	798						
		45	225M	930	60	1440	150	570	360	680	580	6	20	110	330	322	170	822						
		55	250M	1000	75	1560	150	630	360	790	690	6	20	95	390	555	176	1121						
NSC200-150-570	1480	75	280S	1006.1	55	569.3	450	450	390	1050	75	1620	150	660	360	790	690	6	20	95	390	610	182	1182
		90	280M							1050	75	1620	150	660	360	790	690	6	20	95	390	610	182	1182
		110	315S							1270	80	1680	150	690	360	790	690	6	20	95	390	750	192	1332
		132	315M							1340	80	1730	150	710	360	790	690	6	20	95	390	875	204	1469
		200	315L							1340	80	1730	150	710	360	790	690	6	20	95	390	875	204	1469
		55	250M							1000	75	1560	150	630	360	790	690	6	20	95	390	555	176	1121
		75	280S							1000	75	1560	150	630	360	790	690	6	20	95	390	555	176	1121
		90	280M							1050	75	1620	150	660	360	790	690	6	20	95	390	610	182	1182
		110	315S							1270	80	1680	150	690	360	790	690	6	20	95	390	750	192	1332
NSC250-200-340	1480	132	315M	1006.1	55	569.3	450	450	368	1340	80	1730	150	710	360	790	690	6	20	95	390	875	204	1469
		200	315L							1340	80	1730	150	710	360	790	690	6	20	95	390	875	204	1469
		280	335(6KV)							1690	100	2590	150	760	380	960	840	8	25	140	670	1730	480	2878
		30	200L							775	55	1490	150	590	420	680	650	6	25	140	478	238	260	976
		37	225S							820	60	1520	150	610	420	680	650	6	25	140	478	298	260	1036
		45	225M							845	60	1540	150	620	420	680	650	6	25	140	478	322	260	1060
		55	250M							930	65	1610	150	650	420	680	650	6	25	140	478	410	280	1168
		75	280S							1000	75	1680	150	690	420	680	650	6	25	140	478	555	280	1313
		90	280M							1050	75	1730	150	710	420	680	650	6	25	140	478	610	280	1368
NSC250-200-430	1480	37	225S	1006.1	55	569.3	500	500	400	820	60	1530	150	610	420	820	700	6	25	150	568	298	260	1118
		45	225M							845	60	1550	150	620	420	820	700	6	25	150	568	322	260	1142
		55	250M							930	65	1620	150	660	420	820	700	6	25	150	568	410	280	1250
		75	280S							1000	75	1690	150	690	420	820	700	6	25	150	568	555	280	1395
		90	280M							1050	75	1740	150	720	420	820	700	6	25	150	568	610	280	1450
		110	315S							1340	80	1800	150	750	420	820	700	6	25	150	568	750	310	1620
		132	315M							1340	80	1850	150	770	420	820	700	6	25	150	568	875	310	1745
		200	315L							1340	80	1900	150	800	420	820	700	6	25	150	568	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 (r/min)	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	
NSC250-200-530	1480	75	280S	1110.8	65	637.3	600	500	470	1000	75	1760	150	730	440	960	840	6	25	150	710	555	280	1545	
		90	280M							1050	75	1810	150	750	440	960	840	6	25	150	710	610	280	1600	
		110	315S							1340	80	1870	150	780	440	960	840	6	25	150	710	750	350	1810	
		132	315M							1340	80	1920	150	810	440	960	840	6	25	150	710	875	350	1935	
		200	315L							1340	80	1970	150	830	440	960	840	6	25	150	710	960	350	2020	
		315	335(6KV)							1690	100	2670	150	790	460	960	840	8	25	150	710	1730	540	2980	
		355	400(6KV)							1860	110	2780	150	820	460	1070	950	8	25	150	710	2050	610	3370	
NSC250-200-660	1480	110	315S	1110.8	65	637.3	650	550	525	1340	80	1880	150	790	450	960	840	6	25	160	1020	750	360	2104	
		132	315M							1340	80	1930	150	810	450	960	840	6	25	160	1020	875	360	2229	
		200	315L							1340	80	1980	150	840	450	960	840	6	25	160	1020	960	360	2314	
		315	355(6KV)							1690	100	2680	150	790	450	960	840	8	25	160	1020	1730	560	3284	
		355	400(6KV)							1860	110	2790	150	830	450	1070	950	8	25	160	1020	2050	610	3654	
NSC300-250-280	1480	30	200L	1006.1	55	569.3	500	450	404	775	55	1490	150	590	460	820	700	6	25	140	650	238	270	1158	
		37	225S							820	60	1520	150	610	460	820	700	6	25	140	650	298	280	1228	
		45	225M							845	60	1540	150	620	460	820	700	6	25	140	650	322	280	1252	
		55	250M							930	65	1610	150	650	460	820	700	6	25	140	650	410	280	1340	
		75	280S							1000	75	1680	150	690	460	820	700	6	25	140	650	555	280	1485	
NSC300-250-390	1480	75	280S	1110.8	65	637.3	500	500	417	1000	75	1760	150	730	480	960	840	6	25	150	668	555	340	1563	
		90	280M							1050	75	1810	150	750	480	960	840	6	25	150	668	610	340	1618	
		110	315S							1340	80	1870	150	780	480	960	840	6	25	150	668	750	360	1778	
		132	315M							1340	80	1920	150	810	480	960	840	6	25	150	668	875	360	1903	
		200	315L							1340	80	1970	150	830	480	960	840	6	25	150	668	960	360	1988	
NSC300-250-490	1480	90	280M	1316.5	75	736.5	550	550	583	1050	75	1950	150	820	500	960	840	6	25	200	950	610	420	1980	
		110	315S							1340	80	2020	150	860	500	960	840	6	25	200	950	750	420	2120	
		132	315M							1340	80	2070	150	590	500	960	840	8	25	200	950	875	450	2275	
		200	315L							1340	80	2120	150	600	500	960	840	8	25	200	950	960	450	2360	
		315	355(6KV)							1690	100	28010	150	830	520	960	840	8	25	200	950	1730	620	3300	
		355	400(6KV)							1860	110	2920	150	870	520	1070	950	8	25	200	950	2050	720	3720	
										1340	80	2070	150	590	500	1070	950	8	25	200	1125	875	440	2441	
NSC300-250-610	1480	200	315L	1316.5	75	736.5	650	550	640	1340	80	2120	150	600	500	1070	950	8	25	200	1125	960	440	2526	
		315	355(6KV)							1690	100	2850	150	850	520	1070	950	8	25	210	1125	1730	640	3496	
		560	400(6KV)							1860	110	2930	150	870	520	1070	950	8	25	210	1125	2430	740	426	
		630	450(6KV)							1900	120	3200	150	960	520	1170	1050	8	25	210	1125	3030	740	4896	
										1860	110	3110	200	900	590	1070	950	8	30	200	1350	2430	920	4700	
NSC300-250-780	1480	560	400(6KV)	1527	85	870	700	600	680	1900	120	3370	200	990	590	1170	1050	8	30	200	1350	2170	950	4470	
		710	450(6KV)							1900	120	3370	200	990	590	1170	1050	8	30	200	1350	2280	1050	4680	
		800	450(6KV)							1900	120	3370	200	990	590	1170	1050	8	30	200	1350	3960	1150	6460	
		1000	500(6KV)							1900	120	3630	200	800	590	1320	1200	8	30	200	1350	3960	1150	6460	
NSC300-250-270	1480	30	200L	1006.1	55	569.3	500	500	300	775	55	1490	150	590	460	820	700	6	25	140	650	238	270	1158	
		45	225M							845	60	1510	150	620	460	820	700	6	25	140	650	322	280	1252	
		55	250M							930	65	1610	150	650	460	820	700	6	25	140	650	410	280	1340	
NSC350-300-330	1480	55	250M	1110.8	65	637.3	600	520	465	930	65	1710	150	700	510	920	800	6	25	175	800	410	350	1560	
		75	280S							1000	75	1780	150	740	510	920	800	6	25	175	800	555	350	1705	
		90	280M							1050	75	1830	150	760	510	920	800	6	25	175	800	610	350	1760	
		110	315S							1340	80	1900	150	800	510	920	800	6	25	175	800	750	370	1920	
		132	315M							1340	80	1950	150	820	510	920	800	6	25	175	800	875	370	2045	
NSC350-350-310	1480	55	250M	1110.8	65	637.3	600	520	465	930	65	1950	150	820	510	960	840	6	25	175	800	410	350	1560	
		75	280S							1000	75	1950	150	820	510	960	840	6	25	175	800	555	350	1705	
		90	280M							1050	75	1950	150	820	510	960	840	6	25	175	800	610	350	1760	
		110	315S							1340	80	1950	150	820	510	960	840	6	25	175	800	750	370	1920	
		132	315M							1340	80	1950	150	820	510	960	840	6	25	175	800	875	370	2045	
NSC400-300-450	1480	90	280M	1316.5	75	736.5	650	550	590	1050	75	1960	150	830	530	960	840	6	25	200	1000	610	450	2060	
		110	315S							1340	80	2020	150	860	530	960	840	6	25	200	1000	750	450	2200	
		132	315M							1340	80	2070	150	590	530	960	840	8	25	200	1000	875	510	2385	
		200	351L							1340	80	2120	150	600	530	960	840	8	25	200	1000	960	510	2470	
		315	355(6KV)							1690	100	2860	150	850	570	960	840	8	25	210	1000	1730	690	3420	
		500	400(6KV)							1860	110	2940	150	880	570	1070	950	8	25	210	1000	2340	780	4120	

Horizontal Arrangement Dimensions (5/5)

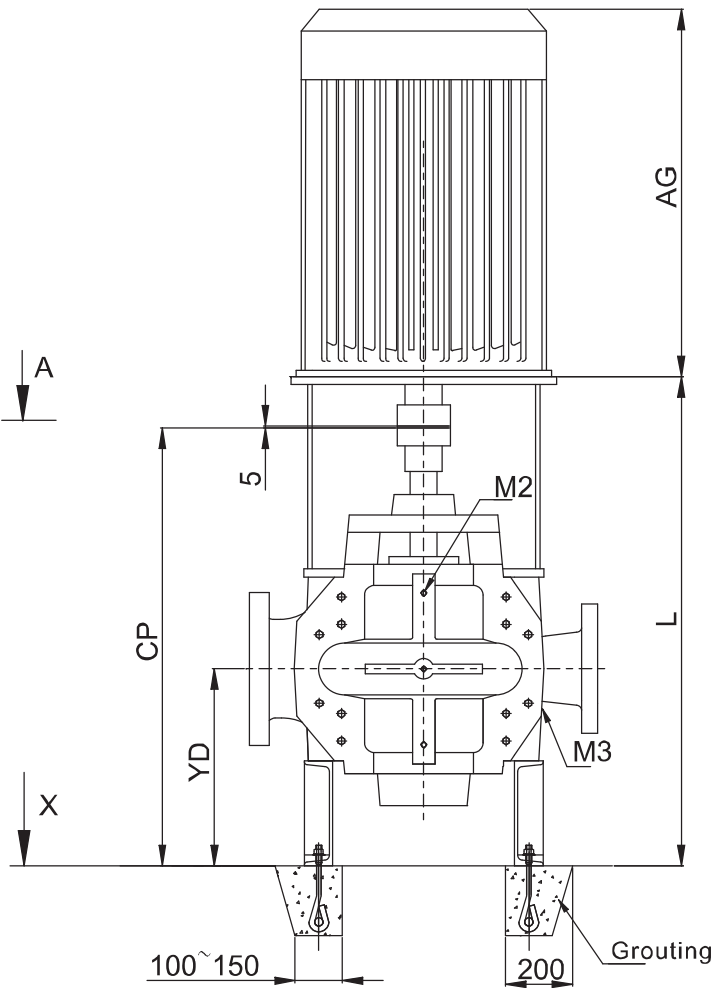
Unit: mm, unless other wise stated

Model	Speed (r/min)	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	1480	200	315L	1527	85	870	700	650	530	1340	80	2270	150	650	600	1270	1090	8	30	210	1505	960	500	2940	
		315	355(6KV)							1690	100	2990	150	890	600	1270	1090	8	30	210	1505	1730	790	4000	
		560	400(6KV)							1860	110	3070	150	920	600	1270	1090	8	30	210	1505	2430	880	4790	
		630	450(6KV)							1900	120	3330	150	1010	600	1270	1090	8	30	210	1505	3030	880	5390	
NSC400-300-700	1480	315	355(6KV)	1527	85	870	700	650	530	1690	100	3030	200	870	620	1170	1050	8	30	200	1650	1730	810	4190	
		560	400(6KV)							1860	110	3110	200	900	620	1170	1050	8	30	200	1650	2430	920	5000	
		900	450(6KV)							1900	120	3370	200	990	620	1170	1050	8	30	200	1650	3460	950	6060	
		1000	500(6KV)							2220	130	3630	200	1070	620	1170	1050	8	30	200	1650	3960	1050	6660	
NSC400-350-360	1480	160	315L	1316.5	75	736.5	670	570	513	1340	80	2170	200	590	520	920	790	8	25	200	880	960	690	2530	
		160	315L							1340	80	2170	200	590	520	920	790	8	25	200	880	960	690	2530	
		110	315S							1340	80	2070	200	830	520	920	790	6	25	200	880	750	430	2060	
NSC400-350-380	1480	90	280M	1316.5	75	736.5	670	570	513	1050	75	2010	200	800	520	920	790	6	25	200	880	610	350	1840	
		110	315S							1340	80	2070	200	830	520	920	790	6	25	200	880	750	430	2060	
		132	315M							1340	80	2120	200	570	520	920	790	8	25	200	880	875	460	2215	
		200	315L							1340	80	2170	200	590	520	920	790	8	25	200	880	1080	690	2650	
		315	355(6KV)							1690	100	2900	200	830	520	920	790	8	25	200	880	1730	660	3270	
NSC400-350-520	1480	315	355(6KV)	1527	85	870	700	650	535	1690	100	2990	150	890	590	1260	1100	8	30	210	1350	1730	800	3880	
		560	400(6KV)							1860	110	3070	150	920	590	1260	1100	8	30	210	1350	2430	900	4680	
		800	450(6KV)							1900	120	3330	150	750	590	1260	1100	10	30	210	1350	3230	900	5480	
NSC400-350-520	980	315	Y4005-6	1527	85	870	700	650	535	1860	110	3070	150	920	570	1260	1100	8	30	210	1350	2130	900	4380	
		250	Y355L-6							1690	100	2420	150	700	570	1260	1100	8	30	210	1350	1800	900	4050	
		200	Y355M-6							1690	100	2390	150	690	570	1260	1100	8	30	210	1350	1700	900	3950	
		160	Y355M-6							1690	100	2390	150	690	570	1260	1100	8	30	210	1350	1600	900	3850	
NSC500-400-400	980	110	Y315L-6	1438.5	75	821.5	765	600	537	1340	80	2230	200	610	590/570	1080	960	8	25	170	1200	1150	600	2950	
		90	Y315M-6							1340	80	2180	200	590	590/570	1080	960	8	25	170	1200	1080	600	2880	
		75	Y280S-6							1050	75	2010	200	800	590/570	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	2350	200	650	610/590	1080	960	8	30	170	1200	1600	900	3700	
		132	Y315L-6							1340	80	2230	200	610	590/570	1080	960	8	25	170	1200	1300	900	3400	
		110	Y315L-6							1340	80	2230	200	610	590/570	1080	960	8	25	170	1200	1150	900	3250	
		90	Y315M-6							1340	80	2180	200	590	590/570	1080	960	8	25	170	1200	1080	900	3180	
NSC500-400-540	1480	1000	Y5006-4	1773	100	1009	700	700	600	2220	130	3850	300	800	620/620	1260	1150	10	30	210	1870	3690	1200	7160	
		800	Y4506-4							1900	120	3600	300	1000	620/620	1180	1050	8	30	210	1870	3230	1200	6430	
		500	Y4005-4							1860	110	3400	300	950	620/620	1180	1050	8	30	210	1870	2340	1100	5440	
NSC500-400-570	980	315	Y4006-4	1468	100	821	700	700	600	1860	110	3200	300	900	620/620	1180	1050	8	30	210	1683	2130	1100	5230	
		250	Y3555-6							1690	110	3000	300	850	620/620	1180	1050	8	30	210	1683	1880	1000	4880	
		185	Y355L-6							1570	95	2500	300	650	620/620	1180	1050	8	30	210	1683	1400	700	4100	
NSC500-400-660	1480	1400	Y50010-4	1773	100	1009	850	750	641	2220	130	3880	200	870	680	1360	1240	10	30	310	2400	4580	1300	8280	
		1120	Y5007-4							2220	130	3880	200	870	680	1360	1240	10	30	310	2400	4110	1300	7810	
		800	Y4507-4							1900	120	3620	200	800	680	1360	1240	10	30	310	2400	3230	1200	6830	
NSC500-400-675	980	450	Y4505-6	1527	100	870	850	750	641	1940	130	3450	200	760	650	1360	1240	10	30	310	2160	2830	1200	6430	
		355	Y4006-6							1860	110	3260	200	720	650	1360	1240	10	30	310	2160	2190	1200	5790	
		250	Y355L-6							1690	100	2610	200	550	650	1360	1240	10	30	310	2160	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 contact with CNP.

Vertical NSC Pump with Motor (Standard) Dimensions

Unit: mm, unless other wise stated

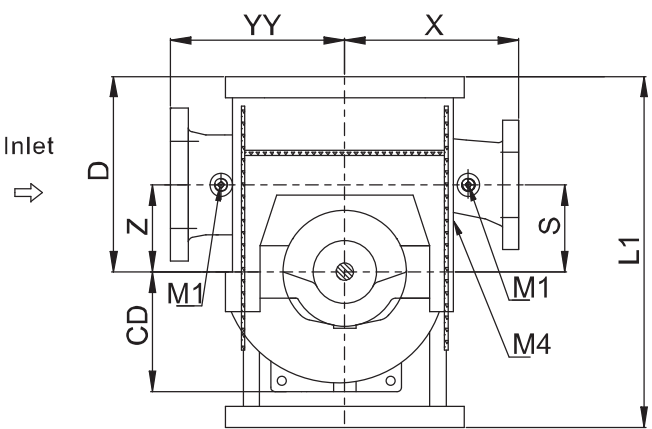


Direction of Rotation: Clockwise

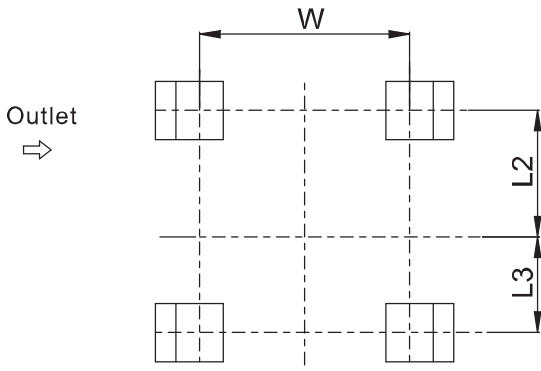
After alignment fill baseplate with non-shrinking concrete
Position of the terminal box is in accordance with the motor standard.
Connect pipes without stress

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													Installation
			CP	YY	X	S/Z	D	YD	CD	L	W	L1	L2	L3	AG	
NSC125-80-210	min. 100L	3	840	300	300	150	315	400	270	870	580/520	710	370	120	320	TB
	max. 200L	37								930					665	
NSC125-80-270	min. 132S	5.5	840	300	300	150	315	400	269	880					395	TB
	max. 280M	90								960					860	
NSC125-80-350	min. 160M	11	840	330	330	140	315	400	333	880					495	TB/TK
	max. 315L	160								990					1170	
NSC150-100-250	min. 132M	7.5	840	330	330	170	355	385	328	920	580/520	695	315	115	435	TB
	max. 280M	90								980					910	
NSC150-100-320	min. 160L	15	840	330	330	170	355	385	342	950					540	TB/TK
	max. 315L	200								1010					1170	
NSC150-100-400	min. 180L	22	840	370	370	170	355	385	260	950					600	TB
	max. 225M	55								980					705	
NSC200-125-240	min. 160M	11	875	370	370	200	400	400	300	990	560	855	360	210	495	TB/TK
	max. 315L	160								1070					1170	
NSC200-125-300	min. 180M	18.5	875	370	370	200	400	400	325	990					560	TB/TK
	max. 355M	250								1070					1400	
NSC200-125-380	min. 200L	30	875	395	370	200	400	400	350	990					665	TB/TK
	max. 355L	280								1070					1170	
NSC200-125-480	min. 225M	45	875	450	450	200	400	400	389	990					705	TB
	max. 315S	110								1050					1100	
NSC200-150-290	min. 180M	18.5	875	400	400	200	435	375	340	990	600	900	435	315	560	TB/TK
	max. 355L	280								1020					1400	
NSC200-150-360	min. 180M	18.5	875	400	400	200	435	375	380	990	600	900	435	315	560	TB
	max. 280S	75								1020					860	
NSC200-150-460	min. 280S	75	982	450	450	200	400	465	390	1125					860	TB/TK
	max. 315L	160								1155					1170	
NSC200-150-570	min. 315M	132	1002	600	500	300	500	465	460	1175	700	1060	460	315	1170	TK
	max. 355L	280								1175					1400	
NSC250-200-340	min. 225M	45	982	450	450	240	500	465	368	1125	700	1060	460	315	705	TB
	max. 280M	90								1125					910	
NSC250-200-430	min. 280S	75	982	500	500	240	500	465	400	1125					770	TB/TK
	max. 315L	160								1155					1320	
NSC250-200-530	min. 280S	132	1134	600	500	300	560	505	470	1050	700	1120	520	315	860	TK
	max. 355L	315								1340					1400	
NSC250-200-660	min. 355L	315	1134	560	550	350	600	505	525	1340		1180	560	315	1400	TK/TJ
	max. 400(6KV)	500								/					1730	
NSC300-250-270	min. 200L	30	982	500	450	300	600	465	404	1095	700	855	360	210	665	TB
	max. 250M	55								1125					790	
NSC300-250-280	min. 200L	30	982	500	450	300	600	465	404	1095	700	855	360	210	665	TB
	max. 315S	110								1155					1100	
NSC300-250-390	min. 280M	90	1094	500	500	300	630	450	417	1235	850	1200	635	350	910	TB/TK
	max. 315L	200								1265					1170	
NSC300-250-490	min. 315L	160	1260	550	550	300	600	605	583	1430	840	1180	560	315	1030	TK/TJ
	max. 355(6KV)	315								/					2200	
NSC300-250-610	min. 355(6KV)	280	1280	650	550	350	630	605	640	/	860	1210	590	315	2200	TJ
	max. 400(6KV)	560								/					2300	
NSC350-300-310	min. 250M	55	1134	600	520	300	670	490	465	1275	865	1300	670	430	790	TB
	max. 315S	110								1305					1100	
NSC350-300-330	min. 250M	55	1134	600	520	300	670	490	465	1275					790	TB/TK
	max. 315L	160								1305					1170	
NSC400-300-450	min. 315M	200	1260	650	550	350	700	605	590	1340		1250	630	315	1170	TK/TJ
	max. 400(6KV)	355								/					2300	
NSC400-350-360	min. 315S	110	1323	670	570	350	725	600	513	1500	834	1350	725	350	1100	TK
	max. 315L	160								1500					1170	
NSC400-350-380	min. 315S	110	1323	670	570	350	725	600	513	1500	834	1350	725	350	1100	TK
	max. 355M	250								1500					1400	

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 contact with 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	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	Shaft					
04.02.019	Bearing sleeve					
02.03.004	Round nut	-	-	-	1	1
02.05.001	Circlip					
04.02.004	Impeller	1	2	2	2	2
02.08.001	Deep groove ball bearing					
04.02.017	Bearing circlip	1	1	1	2	2
02.13.001	O-Ring					
02.13.002	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, and 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 sensor 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.	

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