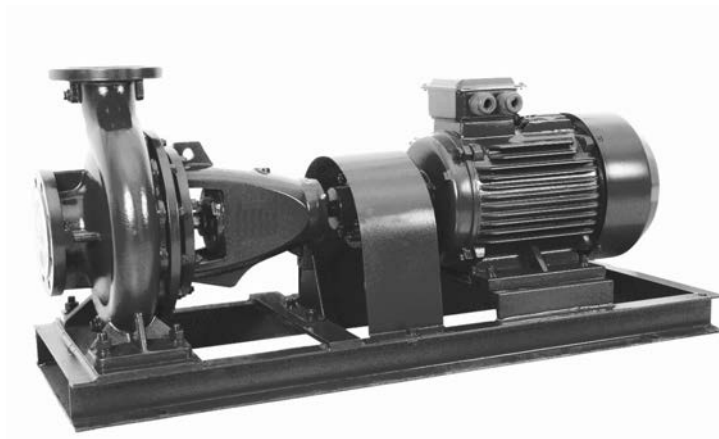


**SPCO**  
makes life easier



**ND**  
Horizontal End Suction  
Pumps, 60Hz

# Approvals

electrosuisse >>

## Expert's report

Confirmation on preparation of an expert's report

CERTIFEL Expert ref.no. CH-10-IK-0172.Exp.B  
page 1 of 1

Product	Horizontal and vertical pumps
Applicant	Swiss Pump Company, Moosweg 36, CH-3645 Gwatt
Manufacturer	Swiss Pump Company, Moosweg 36, CH-3645 Gwatt
Manufactured at/Factory	Swiss Pump Company, Moosweg 36, CH-3645 Gwatt
Trade-mark	SPCO, SWP
Type/Model	ND,CC,MS, QB, SMP, VM, VMC, VMN, CDL, CHLF, CHL, CDF, CSLFT, CHLFT, SCP, PD, HMC, HM, HMN
Ratings, characteristics	220-240V, 3x220V, 3x400V, 3x460V, 50/60Hz Power range: >30 - 1600kW, IP55
Standards safety	EN 60204-1:06 + A1:09 IEC 60204-1(ed.5)am1
Standards EMC	---
Other standards	---

For the product an expert's report with regard to the aforementioned normative documents, respectively technical features has been issued.  
The results are given in the reports ref.no.  
10-IK-0172.01

Electrosuisse  
National Certification Body

Martin Pflus   
Product Certification

  
SCES 035  
(EN 45011)  
Fehraltorf, 2010-06-16

SEV Verband für Elektro-, Energie- und Informationstechnik  
SEV Association pour l'électrotechnique, les technologies de l'énergie et de l'information  
SEV Associazione per l'elettrotecnica, la tecnica energetica e l'informatica  
SEV Association for Electrical Engineering, Energy and Information Technologies

Luganostrasse 1  
CH-6300 Fehraltorf  
Tel. +41 44 808 11 11  
Fax +41 44 808 11 22  
info@electrosuisse.ch  
www.electrosuisse.ch



THE INTERNATIONAL CERTIFICATION NETWORK

## CERTIFICATE

IQNet and SQS  
hereby certify that the organisation

**Swiss Pump Company AG**  
3645 Thun-Gwatt  
Switzerland

*Certified area*  
**Whole Company**

*Field of activity*  
**Design, development, manufacture and sale of products  
for the transportation of liquids**

has implemented and maintains a  
**Management System**  
which fulfills the requirements of the following standard(s)

**ISO 9001:2008**

Scope No(s): 17, 18, 19  
Issued on: 2012-02-20  
Validity date: 2015-02-19  
Registration Number: CH-32160

Michael Drechsel  
President of IQNet

Roland Glauser  
Managing Director SQS

IQNet Partners\*

AENOR Spain AFNOR Certification France AIB-Vinotte International Belgium ANCE Mexico APCER Portugal CCC Cyprus  
CISQ Italy CQC China CQM China CCS Czech Republic Cio Cert Croatia DQS Holding GmbH Germany DS Denmark  
ELOT Greece PCIV Brazil FONDONORMA Venezuela KONTEC Colombia IMC Mexico INNORST Taiwan  
Inspecta Certification Finland IRAM Argentina JQA Japan KPO Korea MSZT Hungary Nemko AS Norway NSI Ireland  
PCBC Poland Quality Austria Austria RIR Russia SI Israel SCS Slovenia SIRM QAS International Malaysia SQS Switzerland SRAC Romania  
TEST St Petersburg Russia TSE Turkey YUQS Serbia

\* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under [www.iqnet-certification.com](http://www.iqnet-certification.com)



# Contents

Pump	page	4
Performance Ranges		5
Applications		6
Operating Condition		6
Design		6
Definition of Model		6
Section Drawing		7
Pump Dimensions		8
Installation Dimensions		10
Performance Curves		22

## End-suction centrifugal Pumps

Non-self-priming single-stage centrifugal volute pump With axial suction port, radial discharge port and horizontal shaft components.

The ND pumps have dimensions and nominal performances according to DIN 24 255 (10 bar) but are designed for 16 bar operation wherever the shaft seal type allows it.

ND pumps according to DIN 24 256 (16 bar) are described in a separate booklet.

For a pump of the same model, the performance can be changed by trimming the outer diameter of the impeller.

Only four shafts are required to cover the total range, and this gives many common interchangeable parts for pumps fitted to the same shaft. Just like the shaft, the bearing house has only five sizes for the whole series.

The pump has a back pull-out design, and when a suitable spacer coupling is fitted to a direct coupled unit,

The casing and motor can remain in position while all other pump parts can be removed for simple and quick maintenance.

ND pump sets are comprised of ND pump and standard electric motor which are connected by coupling and mounted on a steel metal base.

The advantage is that we could easily select the motor and couple to the ND pump.

The coupling adopts the flexible pin and bush design, which makes the pump set more stable with minimal vibration and longer life-span as compared to the 'claw-type' coupling.

The steel metal base is joined by profiled steel bar for strength. Fitting surface where the pump and motor foots seated, are lapped by machine with high precision.

The coupling guard is designed to cover the coupling to provide greater safety and security.



## Applications

The pump is suitable for the pumping of thin, clean and non-aggressive liquids without solids particles or fibers in:

- District heating
- Water supply
- Air conditioning
- Cooling plants
- Industry
- Fire fighting
- Environment engineering

## Operating Condition

Flow Rate(Q) : 2 to 1615m<sup>3</sup>/h

Head(H) : 3 to 110m

Speed : 1750, 3500 rpm (60Hz)

Temperature : -10°C to 105°C standard,  
optional 150°C

Using pressure: 10Bar standard, optional 16Bar

## Design

Horizontal, Single-Stage Volute Casing pumps with dimensions and nominal ratings standard to DIN24255.

**Type:** End Suction Centrifugal, back pull-out

**Flange:** DIN2501

**Rotation:** Clockwise as viewed from the drive side.

### Material:

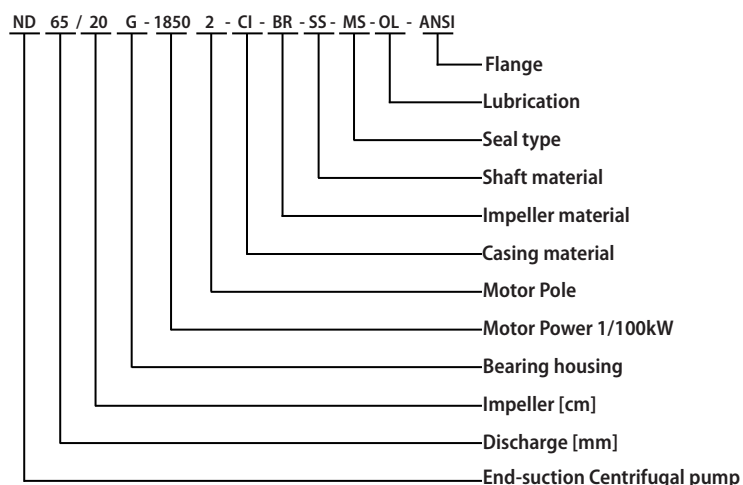
Casing: Cast Iron, Ductile Iron, Stainless Steel.

Impeller: Bronze, Cast Iron, Stainless Steel.

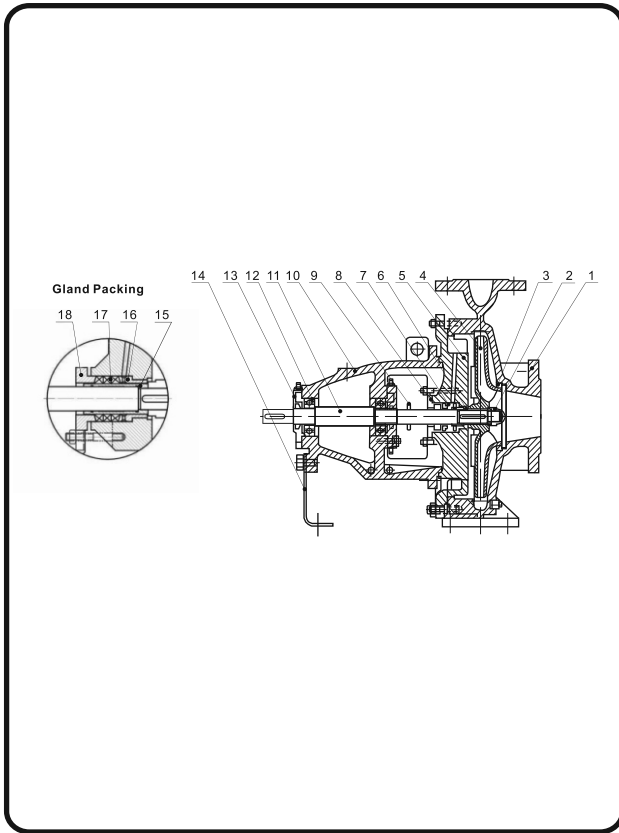
Shaft : SS 420 (Standard), SS 403, SS 316, SS1045

Shaft Seal: Mechanical Seal standard  
Carbon-Ceramic / Viton (Standard)  
Carbon-Sic/Viton (optional)  
Optional Gland Packing.

## Definition of Model



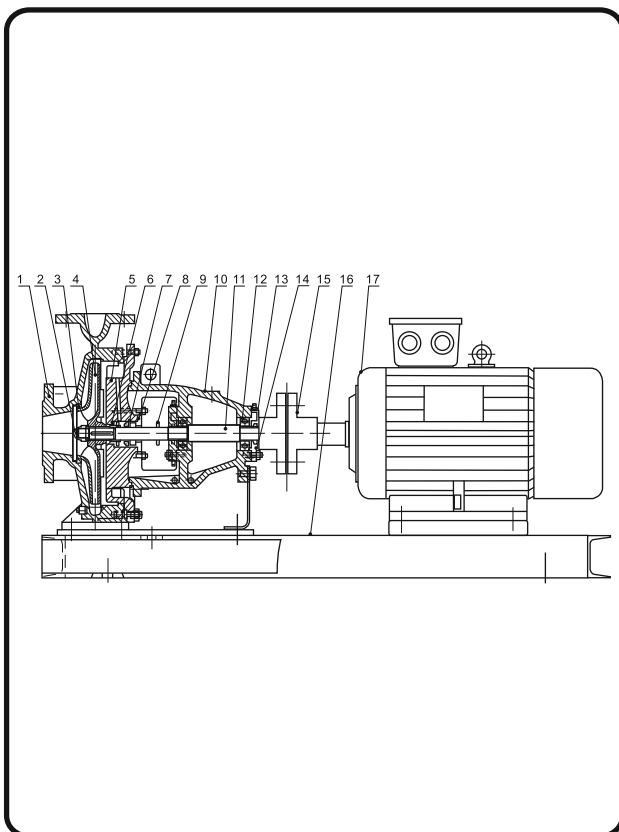
## Section drawing and Parts list • Pump only



No.	Part Name
1	Volute Casing
2	Impeller Nut
3	Wear Ring
4	Impeller
5	Casing Cover
6	Shaft Spacer
7	Mechanical Seal
8	Seal Cover
9	Slinger

No.	Part Name
10	Bearing Housing
11	Shaft
12	Bearing
13	Bearing Cover
14	Support Foot
15	Packing Sleeve
16	Seal Cage
17	Gland Packing
18	Gland Cover

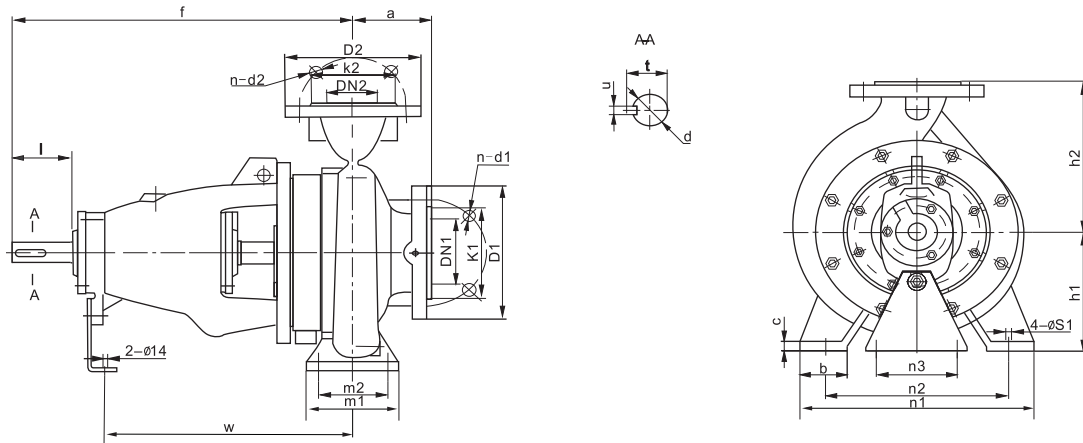
## Section drawing and Parts list • Complete set



No.	Name
1	Volute Casing
2	Impeller Nut
3	Wear Ring
4	Impeller
5	Casing Cover
6	Shaft Sleeve
7	Mechanical Seal
8	Seal cover
9	Slinger

No.	Name
10	Bearing Housing
11	Shaft
12	Bearing
13	Bearing Cover
14	Support Foot
15	Coupling
16	Steel metal base
17	Electric Motor

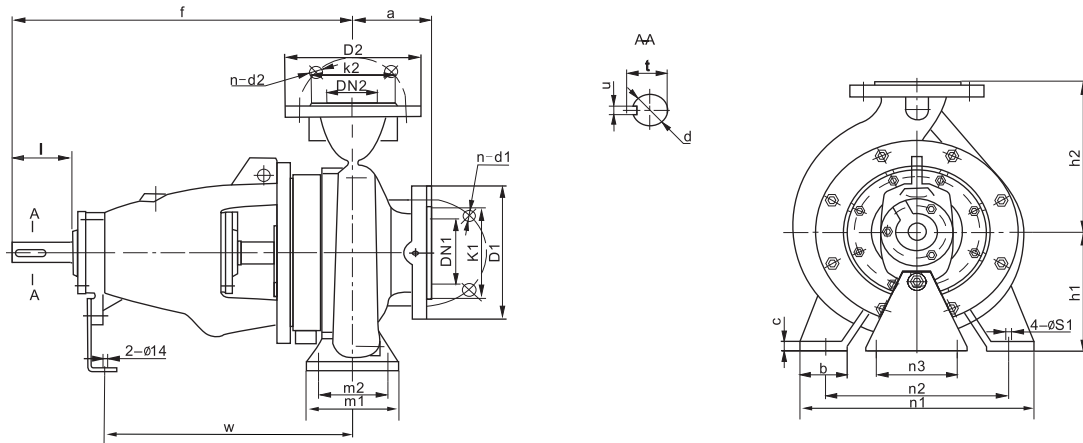
## Pump Dimensions



Model	Bearing impeller Dia.	DN2	DN1	a	f	h1	h2	b	c	n3	m1	m2	n1	n2	S1	W	d	l	t	u
ND 32/13	25	32	50	80	360	112	140	50	14	100	100	70	190	140	14	267	24	50	27	8
ND 32/16	25	32	50	80	360	132	160	50	14	100	100	70	240	190	14	267	24	50	27	8
ND 32/20	25	32	50	80	360	160	180	50	14	110	100	70	240	190	14	267	24	50	27	8
ND 32/26	25	32	50	100	360	180	225	65	14	110	125	95	320	250	14	267	24	50	27	8
ND 40/13	25	40	65	80	360	112	140	50	14	100	100	70	210	160	14	267	24	50	27	8
ND 40/16	25	40	65	80	360	132	160	50	14	100	100	70	240	190	14	267	24	50	27	8
ND 40/20	25	40	65	100	360	160	180	50	14	110	100	70	265	212	14	267	24	50	27	8
ND 40/26	25	40	65	100	360	180	225	65	14	110	125	95	320	250	14	267	24	50	27	8
ND 40/32	35	40	65	125	470	200	250	65	14	110	125	95	345	280	14	342	32	80	35	10
ND 40/32H	35	40	65	125	470	200	250	65	14	110	125	95	345	280	14	342	32	80	35	10
ND 40/32G	45	40	65	125	526	200	250	65	14	110	125	95	345	280	14	367	42	110	45	12
ND 50/13	25	50	65	100	360	132	160	50	14	100	100	70	240	190	14	267	24	50	27	8
ND 50/16	25	50	65	100	360	160	180	50	14	110	100	70	265	212	14	267	24	50	27	8
ND 50/20	25	50	65	100	360	160	200	50	14	110	100	70	265	212	14	267	24	50	27	8
ND 50/26	25	50	65	100	360	180	225	65	14	110	125	95	320	250	14	267	24	50	27	8
ND 50/26G	35	50	65	100	470	180	225	65	14	110	125	95	320	250	14	344	32	80	35	10
ND 50/32	35	50	65	125	470	225	280	65	18	110	125	95	345	280	14	342	32	80	35	10
ND 50/32H	35	50	65	125	470	225	280	65	18	110	125	95	345	280	14	342	32	80	35	10
ND 50/32G	45	50	65	125	526	225	280	65	18	110	125	95	345	280	14	367	42	110	45	12
ND 65/13	25	65	80	100	360	160	180	65	14	110	125	95	280	212	14	267	24	50	27	8
ND 65/16	25	65	80	100	360	160	200	65	14	110	125	95	280	212	14	267	24	50	27	8
ND 65/20	25	65	80	100	360	180	225	65	14	110	125	95	320	250	14	267	24	50	27	8
ND 65/20G	35	65	80	100	465	180	225	65	14	110	125	95	320	250	14	339	32	80	35	10
ND 65/26	35	65	80	100	470	200	250	80	15	110	160	120	360	280	18	342	32	80	35	10
ND 65/32	35	65	80	125	470	225	280	80	18	110	160	120	400	315	18	342	32	80	35	10
ND 65/32H	35	65	80	125	470	225	280	80	18	110	160	120	400	315	18	342	32	80	35	10
ND 65/32G	45	65	80	125	525	225	280	80	18	110	160	120	400	315	18	367	42	110	45	12

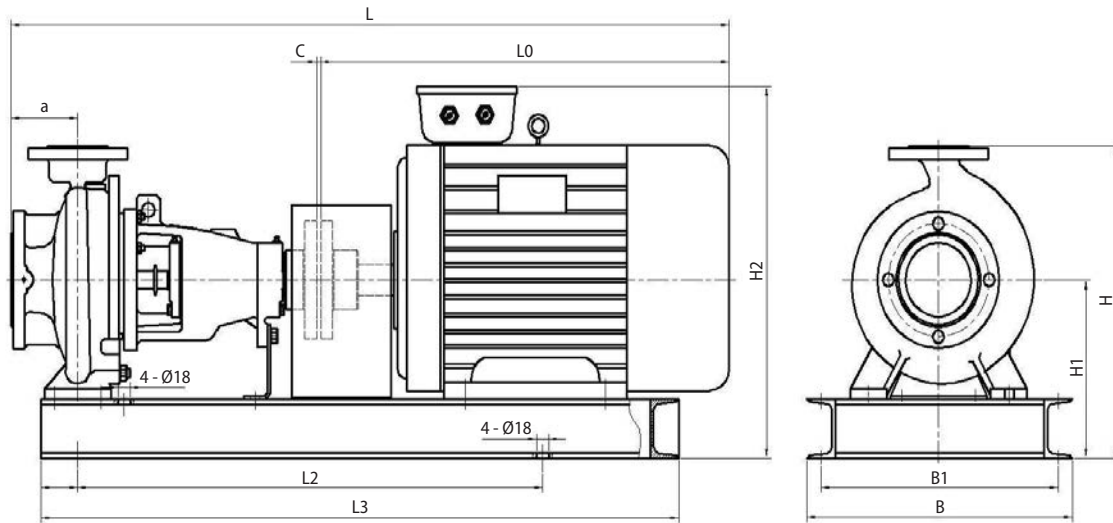


# Pump Dimensions



Model	Bearing impeller Dia.	DN2	DN1	a	f	h1	h2	b	c	n3	m1	m2	n1	n2	S1	W	d	l	t	u
ND 80/16	25	80	100	125	360	180	225	65	14	110	125	95	320	250	14	267	24	50	27	8
ND 80/20	35	80	100	125	470	180	250	65	15	110	125	95	345	280	14	342	32	80	35	10
ND 80/26	35	80	100	125	470	200	280	80	15	110	160	120	400	315	18	342	32	80	35	10
ND 80/32	35	80	100	125	470	250	315	80	16	110	160	120	400	315	18	342	32	80	35	10
ND 80/32H	35	80	100	125	470	250	315	80	16	110	160	120	400	315	18	342	32	80	35	10
ND 80/32G	45	80	100	125	526	250	315	80	16	110	160	120	400	315	18	367	42	110	45	12
ND 80/40	45	80	100	125	530	280	355	83	18	110	160	120	440	340	18	370	42	110	45	12
ND 100/16	35	100	125	125	470	200	250	80	15	110	160	120	360	280	18	342	32	80	35	10
ND 100/20	35	100	125	125	470	200	280	80	16	110	160	120	360	280	18	342	32	80	35	10
ND 100/26	35	100	125	140	470	225	280	80	16	110	160	120	400	315	18	342	32	80	35	10
ND 100/32	35	100	125	140	470	250	315	80	16	110	160	120	400	315	18	342	32	80	35	10
ND 100/40	45	100	125	140	530	280	355	100	20	110	200	150	500	400	23	370	42	110	45	12
ND 125/20	35	125	150	140	470	250	315	80	16	110	160	120	400	315	18	342	32	80	35	10
ND 125/26	35	125	150	140	470	250	355	80	16	110	160	120	400	315	18	342	32	80	35	10
ND 125/32	45	125	150	140	530	280	355	100	18	110	200	150	500	400	23	370	42	110	45	12
ND 125/40	45	125	150	140	530	315	400	100	18	110	200	150	500	400	23	370	42	110	45	12
ND 125/50	55	125	150	160	670	355	450	100	25	110	200	150	550	450	23	500	48	110	51	14
ND 150/20	35	150	200	160	500	280	400	100	18	110	200	150	400	315	23	342	32	80	35	10
ND 150/26	45	150	200	160	530	250	355	100	18	110	200	150	450	350	23	370	42	110	45	12
ND 150/32	45	150	200	160	530	280	400	100	18	110	200	150	550	450	23	370	42	110	45	12
ND 150/40	45	150	200	160	530	315	450	100	18	110	200	150	550	450	23	370	42	110	45	12
ND 150/50	55	150	200	180	670	375	500	100	22	110	200	150	550	450	23	500	48	110	51	14
ND 200/26	45	200	250	180	555	315	450	100	20	110	200	150	550	450	28	392	42	110	45	12
ND 200/32	55	200	250	180	670	315	480	120	20	110	220	170	600	480	28	505	48	110	51	14
ND 200/40	55	200	250	180	670	335	480	120	20	110	220	170	600	480	28	505	48	110	51	14
ND 200/50	65	200	250	200	720	425	560	100	22	140	200	150	660	560	23	515	60	140	64	18
ND 250/32	55	250	300	220	691	355	520	150	26	110	250	200	660	510	28	525	48	110	51	14
ND 250/40	55	250	300	220	682	400	560	150	26	110	250	200	660	510	28	516	48	110	51	14
ND 250/50	65	250	300	250	720	450	670	120	32	140	240	190	750	650	23	515	60	140	64	18
ND 300/40	65	300	350	300	720	425	670	120	30	140	250	190	760	660	28	515	60	140	64	18

## Installation Dimensions



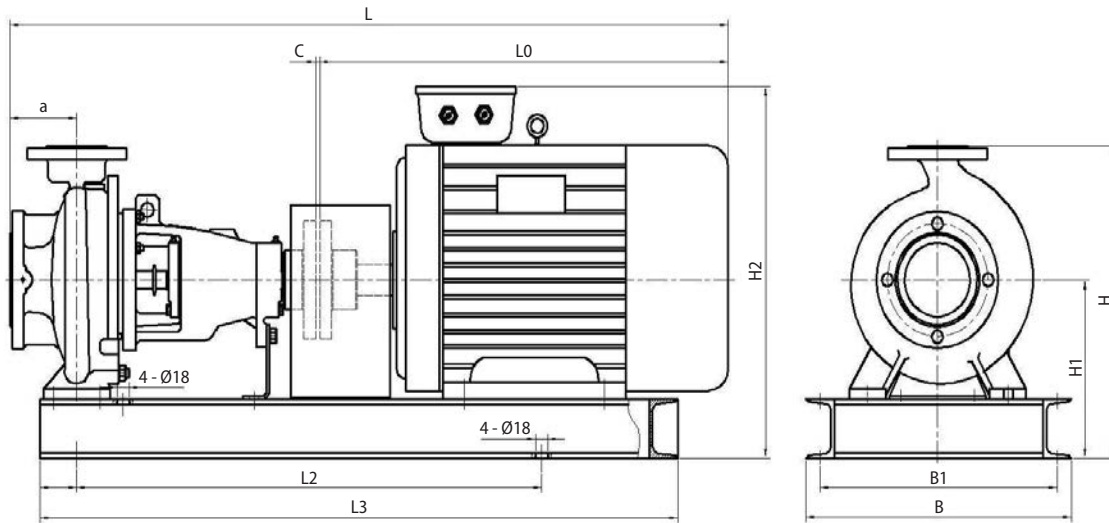
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND32/13	-00554	80	745	295	55	520	720	300	257	315	175	315	4
	-01102	80	745	295	55	520	700	300	257	315	175	315	4
	-03002	80	829	385	55	590	800	300	257	315	175	345	4
	-04002	80	844	400	55	600	800	300	257	315	175	363	4
	-01502	80	764	320	55	530	750	300	257	315	175	335	4
	-02202	80	789	345	55	560	750	300	257	315	175	335	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND32/16	-00554	80	739	295	55	500	720	300	257	335	195	395	4
	-04002	80	844	400	55	600	800	300	357	355	195	383	4
	-05502	80	914	470	55	620	850	350	307	355	195	408	4
	-00554	80	745	295	55	520	700	300	257	355	195	335	4
	-02202	80	789	345	55	490	750	300	257	355	195	355	4
	-03002	80	829	385	55	600	800	300	257	355	195	365	4
	-01104	80	764	320	55	530	750	300	257	355	195	355	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND32/20	-01104	80	764	320	55	530	700	300	257	403	223	383	4
	-15004	80	1114	670	55	800	1050	300	357	420	240	500	4
	-15002	80	1059	615	55	750	1000	400	357	420	240	500	4
	-11002	80	1059	615	55	750	1000	400	357	420	240	500	4
	-07502	80	914	470	55	640	850	350	307	403	223	436	4
	-05502	80	914	470	55	640	850	350	307	403	223	436	4
	-02204	80	829	385	55	510	750	300	257	403	223	393	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND32/26	-03004	100	852	385	65	600	800	400	357	405	243	413	4
	-02204	100	852	385	65	600	800	400	357	405	243	413	4
	-18502	100	1137	670	65	800	1050	400	357	520	260	485	4
	-15002	100	1082	615	65	800	1000	400	357	485	260	520	4
	-04004	100	866	400	65	600	800	400	357	468	243	431	4
	-37002	100	1237	770	65	800	1100	450	407	505	280	585	4
	-30002	100	1237	770	65	800	1100	450	407	505	280	585	4
	-22002	100	1167	700	65	800	1050	400	357	485	260	535	4

# Installation Dimensions



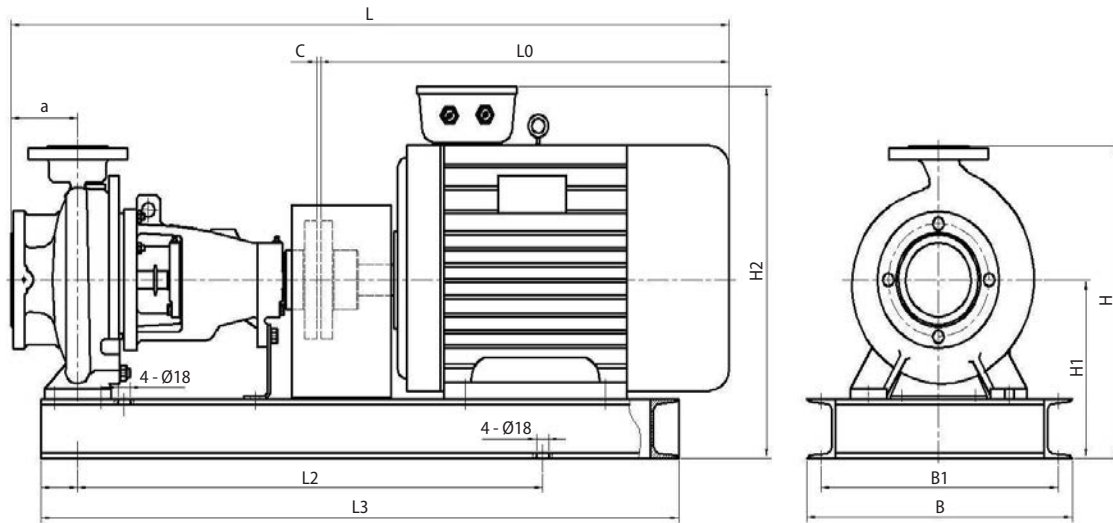
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND40/13	-00554	80	739	295	55	500	700	300	257	335	175	315	4
	-01104	80	764	320	55	550	750	300	257	335	175	335	4
	-05502	80	914	470	55	650	850	350	307	408	195	355	4
	-07502	80	914	470	55	650	850	350	307	408	195	355	4
	-01502	80	764	320	55	550	750	300	257	335	175	335	4
	-04002	80	844	400	55	600	800	300	257	355	175	365	4
	-03002	80	829	385	55	600	800	300	257	355	175	365	4
-02202	80	789	345	55	550	750	300	257	335	175	335	4	

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND40/16	-07502	80	914	470	55	620	850	350	307	408	195	355	4
	-11002	80	1059	615	55	750	1000	400	357	400	240	500	4
	-01104	80	764	320	55	530	750	300	257	355	195	355	4
	-05502	80	914	470	55	620	850	350	307	355	195	408	4
	-04002	80	844	400	55	600	800	300	257	355	195	383	4
	-01504	80	789	345	55	490	750	300	257	355	195	355	4
	-03002	80	829	385	55	600	800	300	257	355	195	365	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND40/20	-01502	100	1079	615	55	700	1000	400	357	420	240	500	4
	-01504	100	809	345	55	570	750	350	307	403	223	383	4
	-02204	100	849	385	55	520	750	350	307	403	223	393	4
	-18502	100	1134	670	55	700	1000	400	357	420	240	500	4
	-01104	100	784	320	55	530	700	300	257	403	223	383	4
	-02204	100	849	385	55	520	750	350	307	403	223	383	4
	-11002	100	1079	615	55	700	1000	400	357	420	240	500	4
-07502	100	934	470	55	550	850	350	307	403	223	436	4	

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND40/26	-05504	100	937	470	65	650	850	400	357	468	243	456	4
	-37002	100	1237	770	65	800	1100	450	407	505	280	585	4
	-30002	100	1237	770	65	800	1100	450	407	505	280	585	4
	-22002	100	1167	700	65	800	1050	400	357	485	260	535	4
	-18502	100	1137	670	65	800	1050	400	357	520	260	485	4
	-04004	100	866	400	65	600	800	400	357	468	243	431	4
	-03004	100	852	385	65	600	800	400	357	405	243	413	4
	-02204	100	852	385	65	600	800	400	357	405	243	413	4
	-15002	100	1082	615	65	800	1000	400	357	485	260	520	4

## Installation Dimensions



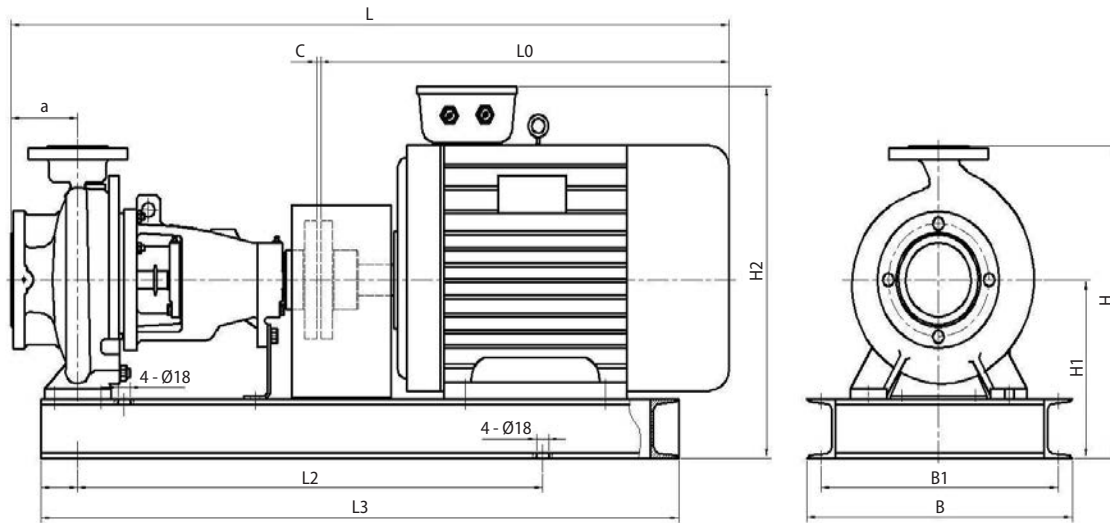
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND40/32G	-22002	125	1356	700	65	1000	1200	400	357	530	280	555	4
	-45002	125	1470	815	65	1000	1300	500	457	555	365	640	4
	-37002	125	1425	770	65	950	1250	450	407	530	280	585	4
	-30002	125	1425	770	65	950	1250	450	407	530	280	585	4
ND40/32	-05504	125	1069	470	65	650	950	400	357	513	263	476	4
	-04004	125	999	400	65	700	900	400	357	513	263	451	4
	-07504	125	1109	510	65	700	950	400	357	513	263	476	4
	-11004	125	1214	615	65	800	1050	400	357	516	263	526	4
	-22002	125	1299	700	65	950	1150	400	357	513	263	555	4
	-37002	125	1369	770	65	1000	1250	450	407	530	280	585	4
	-30002	125	1369	770	65	1000	1250	450	407	530	280	585	4
	-45002	125	1416	815	65	1050	1250	500	457	535	305	640	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND50/13	-04002	100	864	400	55	600	800	300	257	355	195	383	4
	-07502	100	934	470	55	620	850	350	307	355	195	408	4
	-01104	100	786	320	55	530	750	300	257	355	195	355	4
	-11002	100	1079	615	55	750	1000	400	357	400	240	500	4
	-03004	100	829	385	55	600	800	300	257	355	195	365	4
	-02204	100	829	385	55	600	800	300	257	355	195	365	4
	-05502	100	934	470	55	620	850	350	307	355	195	408	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND50/16	-01504	100	809	345	55	570	750	350	307	403	223	383	4
	-22002	100	1164	700	55	750	1000	400	357	440	260	535	4
	-03004	100	849	385	55	520	750	350	307	403	223	393	4
	-01502	100	1079	615	55	700	1000	400	357	420	240	500	4
	-02204	100	849	385	55	520	750	350	307	403	223	383	4
	-07502	100	934	470	55	550	850	350	307	403	223	436	4
	-18502	100	1134	670	55	700	1000	400	357	420	240	500	4
-11002	100	1079	615	55	700	1000	400	357	420	240	500	4	

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND50/20	-18502	100	1137	670	55	700	1000	400	357	440	240	500	4
	-15002	100	1082	615	55	700	1000	400	357	440	240	500	4
	-11002	100	1082	615	55	700	1000	400	357	440	240	500	4
	-30002	100	1237	770	55	750	1100	450	407	480	280	585	4
	-03004	100	852	385	55	520	750	350	307	423	223	383	4
	-04004	100	867	400	55	600	800	400	357	423	223	411	4
	-22002	100	1167	700	55	750	1000	400	357	460	260	535	4
	-02204	100	852	385	55	520	750	350	307	423	223	383	4
	-01504	100	812	345	55	570	750	350	307	423	223	383	4

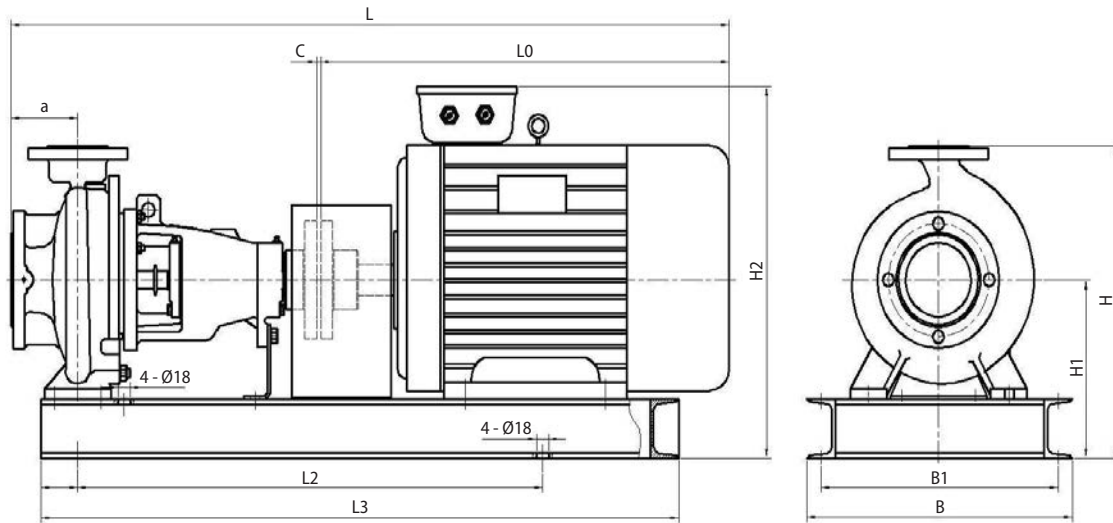
# Installation Dimensions



Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND50/26	-05504	100	937	470	65	650	850	400	357	468	243	456	4
	-30002	100	1237	770	65	800	1100	450	407	505	280	585	4
	-37002	100	1237	770	65	800	1100	450	407	505	280	585	4
	-45002	100	1281	815	65	900	1150	500	457	530	305	640	4
	-03004	100	852	385	65	600	800	400	357	405	243	413	4
	-04004	100	866	400	65	600	800	400	357	468	243	431	4
	-07504	100	977	510	65	700	900	400	357	468	243	456	4
	-22002	100	1167	700	65	800	1050	400	357	485	260	535	4
ND50/26G	-55002	100	1379	910	65	1000	1250	550	507	555	330	695	4
	-22002	100	1274	700	65	800	1000	450	407	585	305	580	4
	-37002	100	1344	770	65	900	1200	450	407	605	325	585	4
	-30002	100	1344	770	65	900	1200	450	407	605	325	585	4
	-45002	100	1389	815	65	900	1250	500	457	585	305	640	4
	-55002	100	1484	910	65	950	1300	550	507	610	330	695	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND50/32G	-30002	125	1425	770	65	950	1250	450	407	585	305	610	4
	-75002	125	1642	985	75	1000	1450	600	557	640	360	760	4
	-55002	125	1567	910	75	1000	1400	550	507	610	330	695	4
	-45002	125	1470	815	65	1000	1300	500	457	585	305	640	4
ND50/32	-37002	125	1425	770	65	950	1250	450	407	585	305	610	4
	-11004	125	1214	615	65	750	1100	400	357	585	305	565	4
	-07504	125	1109	510	65	700	1000	400	357	568	288	501	4
	-05504	125	1069	470	65	650	900	400	357	568	288	501	4
	-15004	125	1269	670	65	800	1100	400	357	568	288	551	4
	-30002	125	1369	770	65	850	1200	450	407	585	305	610	4
	-37002	125	1369	770	65	850	1200	450	407	585	305	610	4
	-45002	125	1414	815	65	900	1250	500	457	585	305	640	4
	-55002	125	1511	910	75	950	1350	550	507	610	330	695	4
	-75002	125	1586	985	75	950	1400	600	557	640	360	760	4

## Installation Dimensions

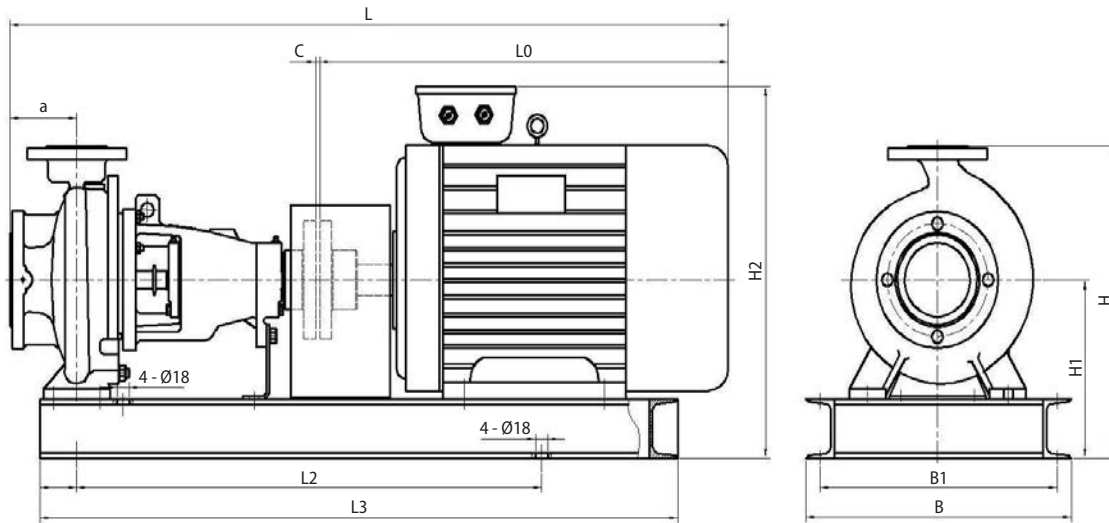


Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND65/13	-11002	100	1079	615	65	750	1000	400	357	420	240	500	4
	-15002	100	1079	615	65	750	1000	400	357	420	240	500	4
	-07502	100	934	470	65	640	850	350	307	403	223	436	4
	-18502	100	1134	670	65	750	1050	400	357	420	240	500	4
	-01504	100	809	345	65	560	750	350	307	403	223	383	4
	-02204	100	849	685	65	600	800	350	307	403	223	393	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND65/16	-02204	100	849	685	65	600	800	350	307	423	223	393	4
	-11002	100	1079	615	65	750	1000	400	357	440	240	500	4
	-15002	100	1079	615	65	750	1000	400	357	440	240	500	4
	-30002	100	1236	770	65	800	110	450	407	480	280	585	4
	-04004	100	859	400	65	600	800	350	307	423	223	411	4
	-18502	100	1134	670	65	750	1050	400	357	440	240	500	4
	-22002	100	1024	740	65	850	1050	400	357	460	260	535	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND65/20	-04004	100	866	400	65	600	800	400	357	468	243	431	4
	-02202	100	1167	700	65	800	1050	400	357	485	260	535	4
	-02204	100	852	385	65	600	800	400	357	405	243	413	4
	-30002	100	852	385	65	600	800	400	357	405	243	413	4
	-18502	100	1137	670	65	800	1050	400	357	520	260	485	4
	-55002	100	1379	910	65	1000	1250	550	507	555	330	695	4
	-45002	100	1281	815	65	900	1150	500	457	530	305	640	4
	-05504	100	937	470	65	650	850	400	357	468	243	456	4
	-03002	100	1237	770	65	800	1100	450	407	505	280	585	4
	-37002	100	1237	770	65	800	1100	450	407	505	280	585	6
-07504	100	977	510	65	700	900	400	357	468	243	456	4	
ND65/20G	-30002	100	1344	770	75	900	1200	450	407	505	280	585	6
	-37002	100	1344	770	75	900	1200	450	407	505	280	585	6
	-55002	100	1484	910	75	950	1350	550	507	555	330	695	6
	-45002	100	1389	815	75	900	1200	500	457	530	350	640	6

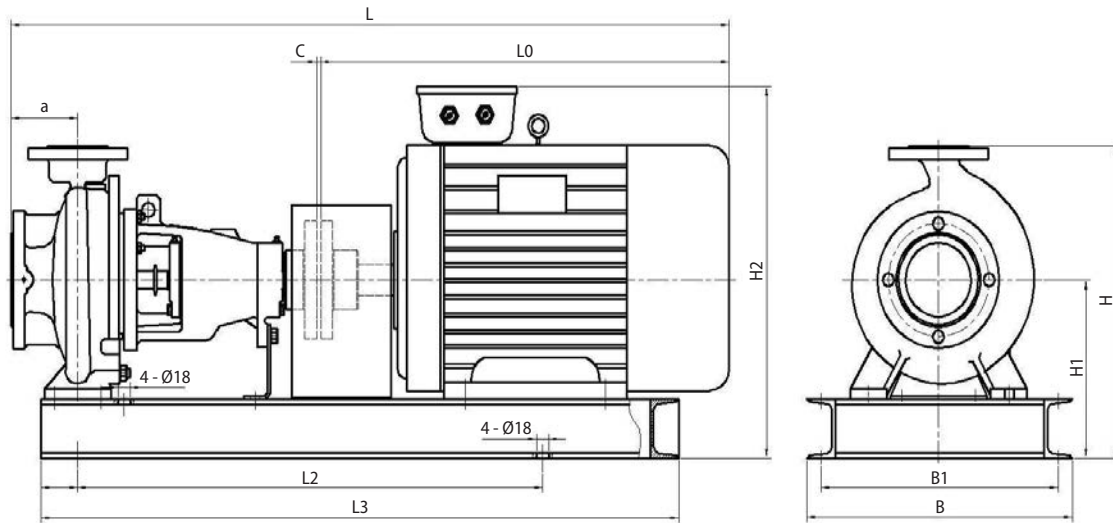
# Installation Dimensions



Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND65/26	-07504	100	1084	510	80	700	1000	400	357	513	263	476	4
	-05504	100	1044	470	80	750	1000	400	357	476	263	513	4
	-55002	100	1488	910	80	1000	1350	550	507	580	330	695	6
	-11004	100	1189	615	80	850	1100	400	357	530	280	540	4
	-75002	100	1561	985	80	1000	1400	600	557	610	360	760	4
	-37002	100	1346	770	65	900	1250	450	407	530	280	585	6
	-45002	100	1391	815	80	900	1250	500	457	555	305	640	6
	-90002	100	1631	1035	80	1000	1400	600	557	610	360	760	8
-45002	100	1391	815	80	900	1250	500	457	555	308	640	6	

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND65/32	-15004	125	1269	670	80	800	1100	450	407	585	305	565	4
	-90002	125	1636	1035	80	1200	1450	600	557	640	360	760	6
	-07504	125	1109	510	80	750	1000	450	407	568	288	501	4
	-55002	125	1511	910	80	1000	1350	550	507	610	330	695	6
	-22004	125	1329	740	80	950	1200	450	407	580	305	585	4
	-18504	125	1339	740	80	900	1150	450	407	585	305	580	4
	-45002	125	1416	815	80	1000	1250	500	457	585	305	640	6
	-75002	125	1586	985	80	1050	1400	600	557	640	360	760	6
ND65/32G	-11004	125	1214	615	80	850	1100	450	407	585	305	565	4
	-45002	125	1470	815	80	1000	1300	500	457	585	305	640	7
	-90002	125	1691	1035	80	1100	1500	600	557	640	360	760	8
	-75002	125	1641	985	80	1100	1500	600	557	640	360	760	8
	-55002	125	1565	910	80	1050	1400	550	507	610	330	695	7

## Installation Dimensions



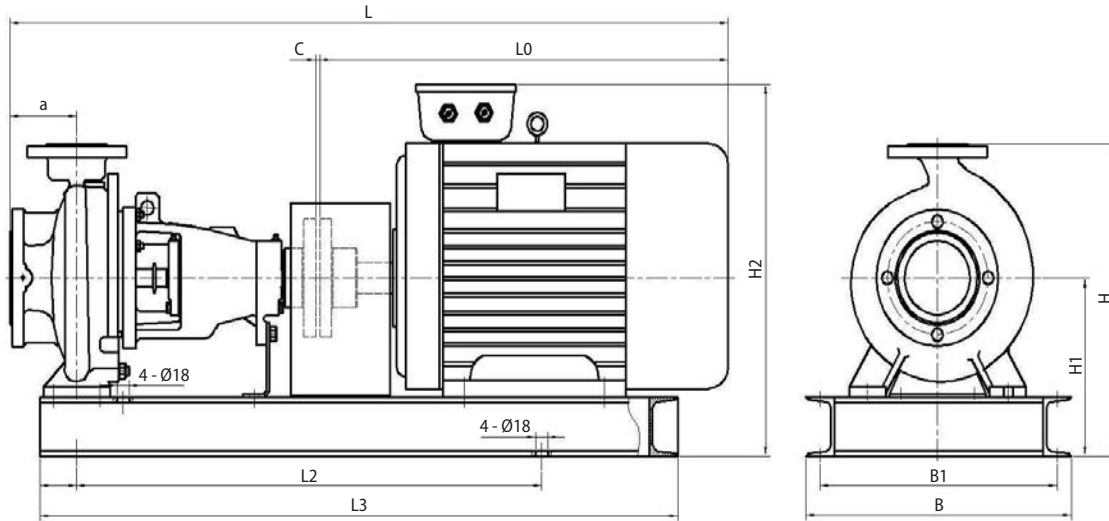
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND80/16	-15002	125	1104	615	65	800	1000	400	357	485	260	520	4
	-45002	125	1304	815	65	900	1150	500	457	530	305	640	4
	-37002	125	1259	770	65	800	1100	450	407	505	280	585	6
	-30002	125	1259	770	65	800	1100	450	407	505	280	585	4
	-22002	125	1189	700	65	800	1050	400	357	485	260	535	4
	-05504	125	959	470	65	650	850	400	357	468	243	456	4
	-03004	125	874	385	65	600	800	400	357	405	243	413	4
-18502	125	1159	670	65	800	1050	400	357	520	260	485	4	

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND80/20	-75002	125	1586	985	80	1050	1400	600	557	610	360	760	6
	-07504	125	1109	510	65	7000	1000	400	357	493	243	456	4
	-55002	125	1511	910	75	950	1350	550	507	580	330	695	6
	-05504	125	1069	470	65	650	950	400	357	493	243	456	4
	-03004	125	984	385	65	600	900	400	357	493	243	413	4
	-11004	125	1214	615	65	800	1050	400	357	493	243	503	4
	-04004	125	1007	400	65	700	950	400	357	493	243	431	4
	-45002	125	1416	815	65	900	1250	500	457	555	305	640	6
	-30002	125	1369	770	65	900	1200	450	407	530	280	585	4
-37002	125	1369	770	65	900	1200	450	407	530	280	585	4	

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND80/26	-75002	125	1586	985	80	1000	1400	600	557	640	360	760	6
	-18504	125	1299	700	80	800	1150	450	407	560	280	555	4
	-15004	125	1269	670	80	800	1150	450	407	560	280	540	4
	-45002	125	1415	815	80	900	1250	500	437	585	305	640	6
	-55002	125	1511	910	80	900	1350	550	507	610	330	695	6
	-90002	125	1636	1035	80	1050	1450	600	557	640	360	760	6
	-110002	125	1784	1185	80	1000	1500	700	657	715	435	965	6
	-132002	125	1892	1295	80	1100	1550	700	657	715	435	965	6
	-07504	125	1109	510	80	650	1000	450	407	560	280	493	4
	-11004	125	1214	615	80	850	1100	450	407	560	280	540	4



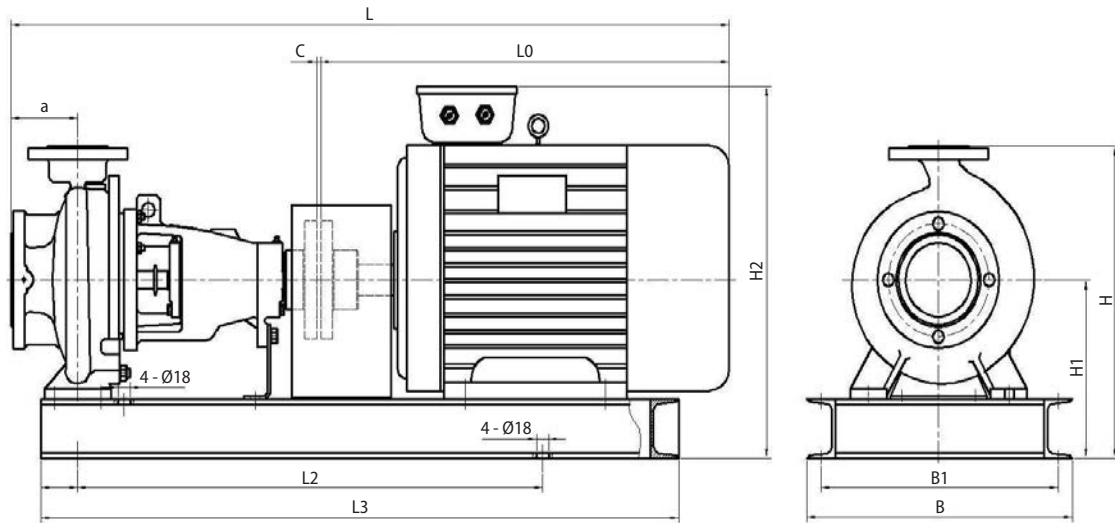
# Installation Dimensions



Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND80/32	-22004	125	1339	740	80	800	1150	450	107	645	330	605	4
	-90002	125	1636	1035	80	1100	1450	600	557	675	360	760	6
	-132002	125	1896	1295	80	1000	1550	700	657	750	435	965	6
	-30004	125	1370	770	80	850	1250	500	457	645	330	635	6
	-110002	125	1786	1185	80	1000	1500	700	657	745	435	965	6
	-75002	125	1586	985	80	1050	1400	600	557	675	360	760	6
	-11004	125	1214	615	80	800	1100	450	407	645	330	590	4
	-18504	125	1299	700	80	800	1150	450	107	645	330	605	4
-15004	125	1269	670	80	800	1100	450	407	645	330	590	4	
ND80/32G	-75002	125	1640	985	80	1100	1450	600	557	675	360	760	6
	-132002	125	1952	1295	85	1300	1600	700	657	750	435	965	6
	-110002	125	1842	1185	85	1250	1550	700	657	750	435	965	6
	-90002	125	1690	1035	80	1100	1500	600	557	675	360	760	6

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND80/40	-22004	125	1399	740	80	900	1200	450	407	395	360	715	4
	-30004	125	1429	770	80	950	1250	450	407	715	360	665	4
	-37004	125	1479	820	80	950	1300	550	507	715	360	695	4
	-45004	125	1504	845	80	950	1350	550	507	715	360	695	4
	-55004	125	1569	910	80	1050	1400	550	507	715	360	725	4

## Installation Dimensions



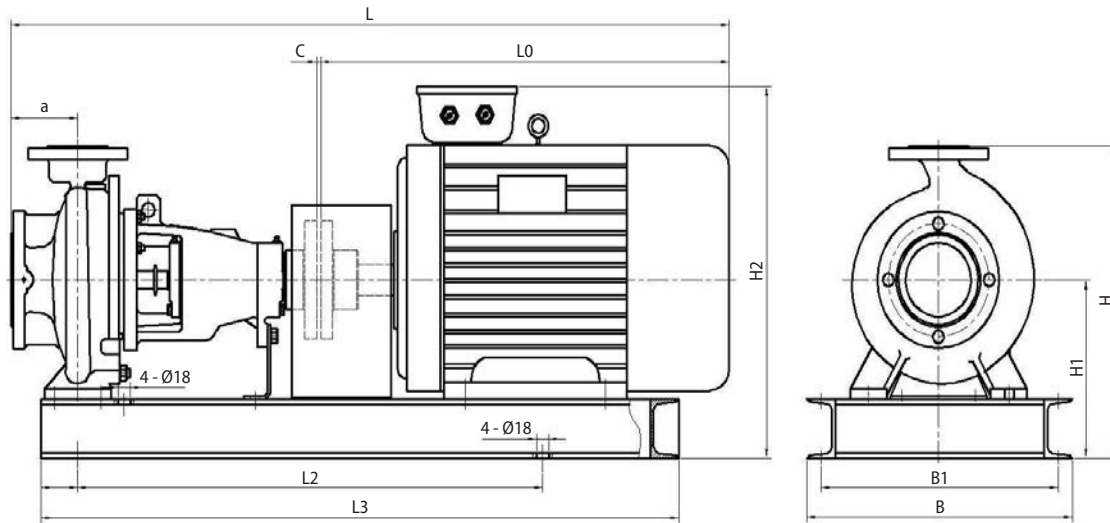
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND100/16	-37002	125	1380	770	65	900	1250	450	407	530	280	585	6
	-55002	125	1522	910	80	1000	1350	550	507	580	330	695	6
	-05504	125	1078	470	80	750	1000	400	357	476	263	513	4
	-45002	125	1425	815	80	900	1250	500	457	555	305	640	6
	-30002	125	1380	770	65	900	1250	450	407	530	280	585	6
	-07504	125	1118	510	80	700	1000	400	357	513	263	476	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND100/20	-05504	125	1069	470	80	750	1000	400	357	476	263	543	4
	-15004	125	1269	670	80	850	1150	400	357	560	280	540	4
	-11004	125	1214	615	80	850	1100	400	357	540	280	560	4
	-07504	125	1109	510	80	700	1000	400	357	546	263	476	4
	-30002	125	1370	770	65	900	1250	450	407	560	280	585	6
	-75002	125	1586	985	80	1000	1400	600	557	640	360	760	4
	-55002	125	1513	910	80	1000	1350	550	507	610	330	695	6
	-110002	125	1788	1185	85	1050	1550	700	657	715	435	965	8
	-45002	125	1416	815	80	900	1250	500	457	585	305	640	6
	-90002	125	1638	1035	80	1000	1400	600	557	640	360	760	8
-37002	125	1371	770	65	900	1250	450	407	560	280	585	6	

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND100/26	-11004	140	1229	615	80	850	1100	450	407	585	305	565	4
	-18504	140	1364	740	80	900	1150	450	407	585	305	580	4
	-22004	140	1354	740	80	950	1200	450	407	580	305	585	4
	-75002	140	1601	985	80	1050	1400	600	557	640	360	760	6
	-30002	140	1384	770	80	1000	1250	450	407	585	305	610	4
	-110002	140	1801	1185	80	1200	1500	700	657	715	435	965	6
	-90002	140	1651	1035	80	1200	1450	600	557	640	360	760	6
	-15004	140	1284	670	80	800	1100	450	407	585	305	565	4

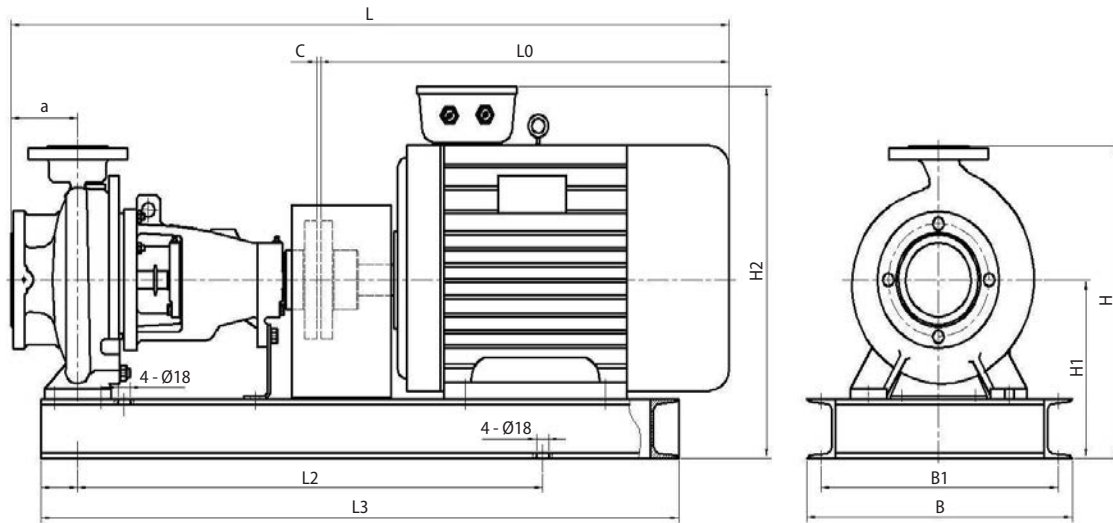
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND100/32	-22004	140	1350	740	80	800	1150	450	407	645	330	605	4
	-37004	140	1436	820	80	800	1300	550	507	645	330	665	6
	-15004	140	1284	670	80	800	1100	450	407	645	330	590	4
	-30004	140	1385	770	80	850	1250	500	457	645	330	635	6
	-18504	140	1314	700	80	800	1150	450	407	645	330	605	4

# Installation Dimensions



Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND100/40	-55004	140	1586	910	95	1000	1400	550	507	715	360	725	6
	-75004	140	1661	985	95	1050	1450	600	557	715	360	760	6
	-30004	140	1444	770	95	950	1300	550	507	715	360	665	4
	-45004	140	1521	845	95	1000	1300	550	507	715	360	635	6
	-37004	140	1495	820	95	1050	1300	550	507	715	360	635	6
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND125/20	-110002	140	1806	1185	80	1000	1500	700	657	745	435	965	6
	-132002	140	1916	1295	80	1000	1550	700	657	750	435	965	6
	-07504	140	1129	510	80	750	1000	450	407	645	330	543	4
	-75002	140	1606	985	80	1050	1400	600	557	675	360	760	6
	-90002	140	1656	1035	80	1100	1450	600	557	675	360	760	6
	-18504	140	1319	700	80	800	1150	450	107	645	330	605	4
	-15004	140	1289	670	80	800	1100	450	407	645	330	590	4
	-11004	140	1229	615	80	800	1100	450	407	685	330	590	4
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND125/26	-18504	140	1314	700	80	800	1150	450	107	685	330	605	4
	-30004	140	1385	770	80	850	1250	500	457	685	330	635	6
	-22004	140	1350	740	80	800	1150	450	107	685	330	605	4
	-15004	140	1284	670	80	800	1100	450	407	685	330	590	4
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND125/32	-55004	140	1586	910	95	1000	1400	550	507	715	360	725	6
	-15004	140	1344	670	95	850	1200	550	507	715	360	620	4
	-30004	140	1444	770	95	950	1300	550	507	715	360	665	4
	-37004	140	1495	820	95	1050	1300	550	507	715	360	635	6
	-22004	140	1414	740	95	900	1200	550	507	715	360	635	4
	-45004	140	1521	845	95	1000	1300	550	507	715	360	635	6
	-18504	140	1374	700	95	850	1200	550	507	715	360	635	4
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND125/40	-37004	160	1514	800	95	950	1300	550	507	795	395	730	4
	-75004	160	1681	985	95	1050	1450	600	557	795	395	795	6
	-110004	160	1911	1215	95	1100	1550	700	657	835	435	965	6
	-90004	160	1731	1035	95	1050	1450	600	557	795	395	795	6
	-55004	160	1606	910	95	1050	1400	550	507	795	395	760	6
	-45004	160	1541	845	95	950	1300	550	507	795	395	730	6

## Installation Dimensions



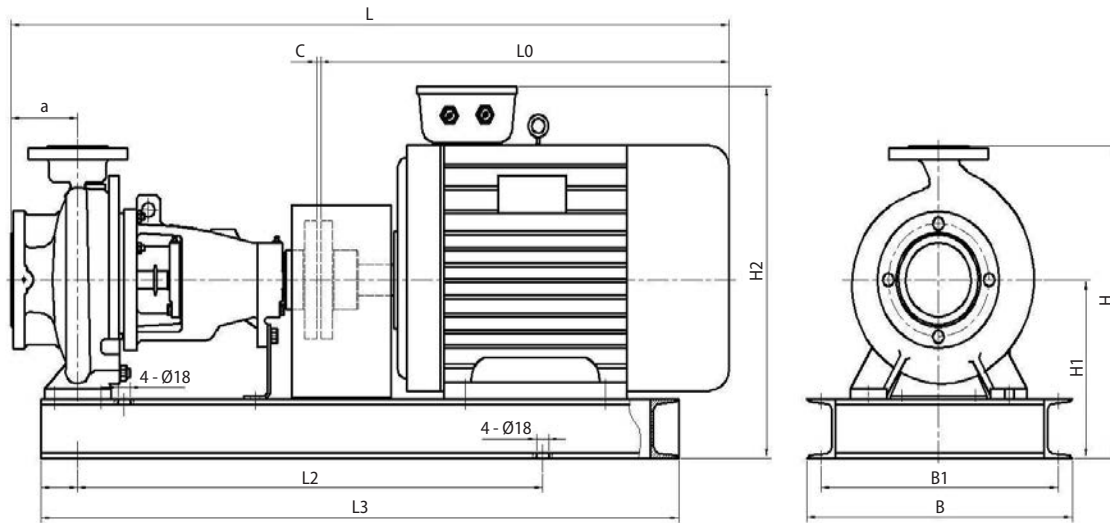
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND150/20	-30004	160	1431	770	95	850	1200	450	407	760	360	665	4
	-18504	160	1361	700	95	850	1200	450	407	760	360	635	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND150/26	-37004	160	1514	820	95	950	1350	550	507	685	330	665	4
	-55004	160	1604	910	95	1050	1400	550	507	685	330	695	4
	-30004	160	1464	770	95	950	1300	500	457	685	330	635	4
	-22004	160	1434	740	85	850	1250	500	457	685	330	605	4
	-45004	160	1539	845	95	950	1350	550	507	685	330	665	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND150/32	-75004	160	1686	985	95	1050	1450	600	557	760	360	760	6
	-55004	160	1611	910	95	1000	1400	580	537	760	360	725	6
	-45004	160	1544	845	95	950	1300	580	537	760	360	695	4
	-30004	160	1469	770	95	950	1300	600	557	760	360	665	4
	-90004	160	1736	1035	95	1100	1500	600	557	760	360	760	6
	-37004	160	1519	820	95	950	1300	580	537	760	360	695	4

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND150/40	-90004	160	1733	1035	95	1100	1500	600	557	845	395	795	6
	-75004	160	1683	985	95	1050	1450	600	557	845	395	795	6
	-55004	160	1607	910	95	1050	1400	600	557	845	395	795	6
	-110004	160	1913	1215	95	1200	1600	700	657	865	415	945	6
	-132004	160	2023	1325	95	1200	1600	700	657	865	415	945	6

# Installation Dimensions



Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND200/26	-90004	180	1776	1035	100	1150	1600	600	577	865	415	780	6
	-55004	180	1651	910	100	1050	1450	600	577	865	415	780	6

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND200/32	-55004	180	1766	910	105	1150	1550	650	607	895	415	780	6
	-75004	180	1845	985	105	1200	1600	650	607	895	415	815	6
	-110004	180	2069	1213	105	1250	1700	700	657	895	415	945	6
	-90004	180	1892	1035	105	1200	1650	650	607	895	415	815	6
	-37004	180	1674	818	105	1050	1500	650	607	895	415	750	4
	-45004	180	1701	845	105	1100	1500	650	607	895	415	750	6

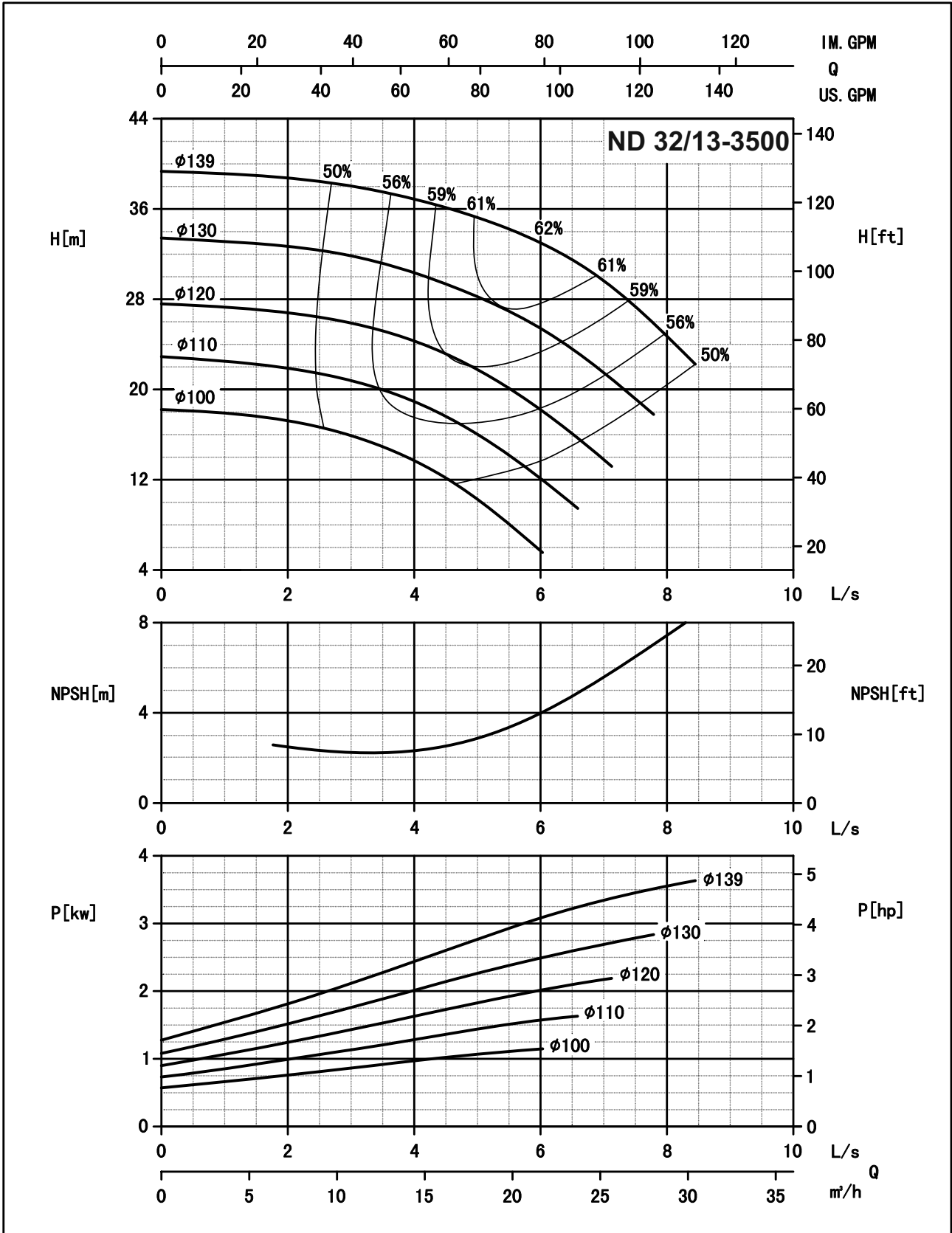
Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND200/40	-75004	180	1841	985	85	1300	1650	650	607	915	435	835	6
	-132004	180	2181	1325	85	1350	1800	700	657	915	435	965	6
	-110004	180	2065	1215	85	1300	1750	700	657	915	435	965	6
	-160004	180	2181	1325	85	1350	1850	700	657	915	435	965	6
	-200004	180	2181	1325	85	1350	1850	700	657	915	435	965	6
	-90004	180	1885	1035	85	1350	1700	650	607	915	435	835	6

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND250/32	-45004	220	1762	845	120	1100	1550	650	607	975	455	750	6
	-90004	220	2172	1035	120	1400	1750	650	607	975	455	855	6
	-132004	220	2242	1325	120	1350	1800	700	657	975	455	985	6
	-110004	220	2132	1215	120	1300	1750	700	657	975	455	985	6
	-75004	220	1902	985	120	1350	1700	650	607	975	455	855	6
	-55004	220	1827	910	120	1150	1600	650	607	975	455	805	6

Model		Installing Dimensions ( mm )											
		a	L	L0	L1	L2	L3	B	B1	H	H1	H2	c
ND250/40	-200004	220	2143	1295	120	1350	1850	700	657	1060	500	1030	6
	-160004	220	2143	1295	120	1350	1850	700	657	1060	500	1030	6
	-90004	220	1943	1035	120	1400	1700	650	607	1060	500	900	6
	-75002	220	1893	985	120	1350	1650	650	607	1060	500	900	6
	-132004	220	2233	1325	120	1350	1800	700	657	1060	500	1030	6
	-110004	220	2123	1215	120	1300	1750	700	657	1060	500	1030	6

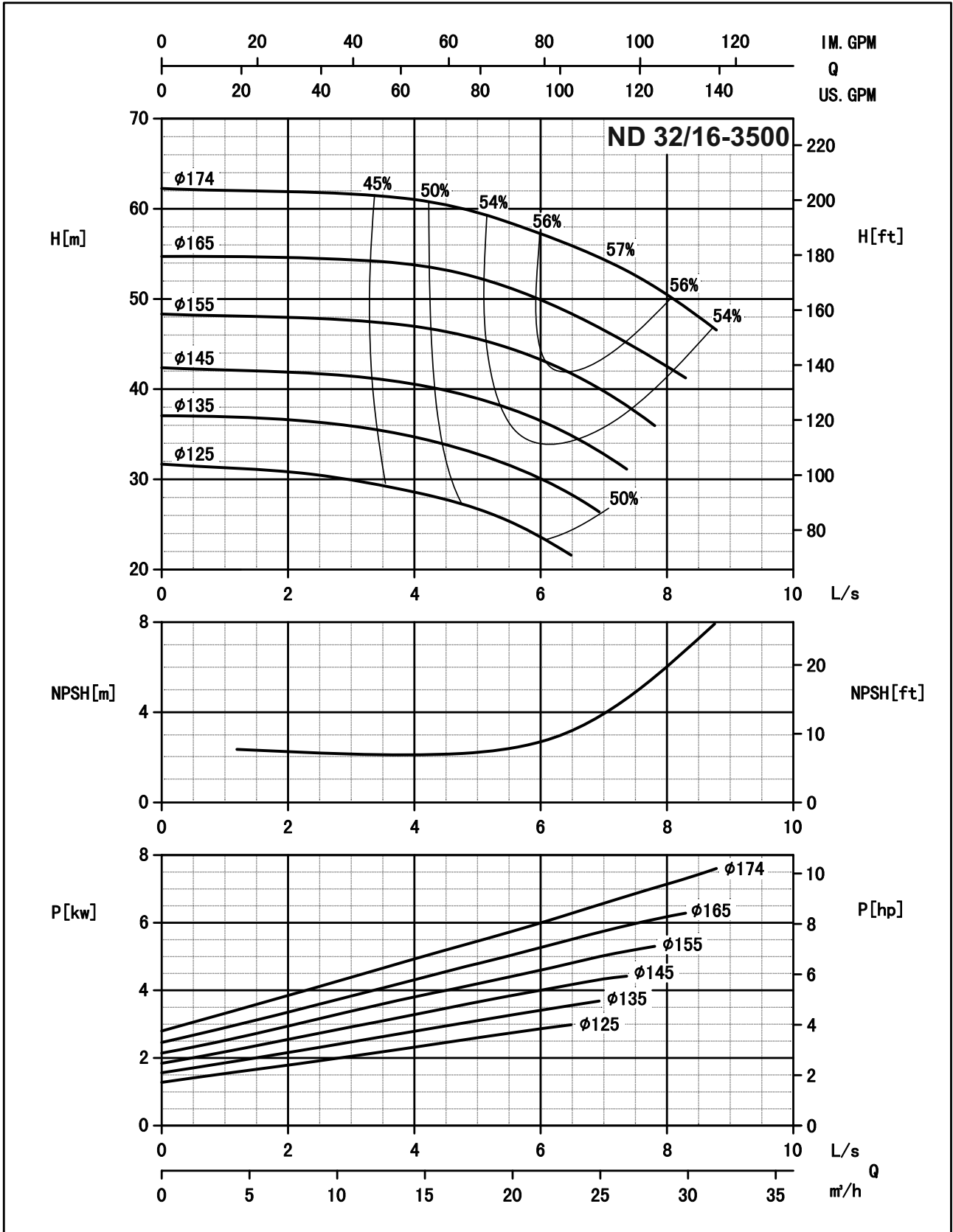
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



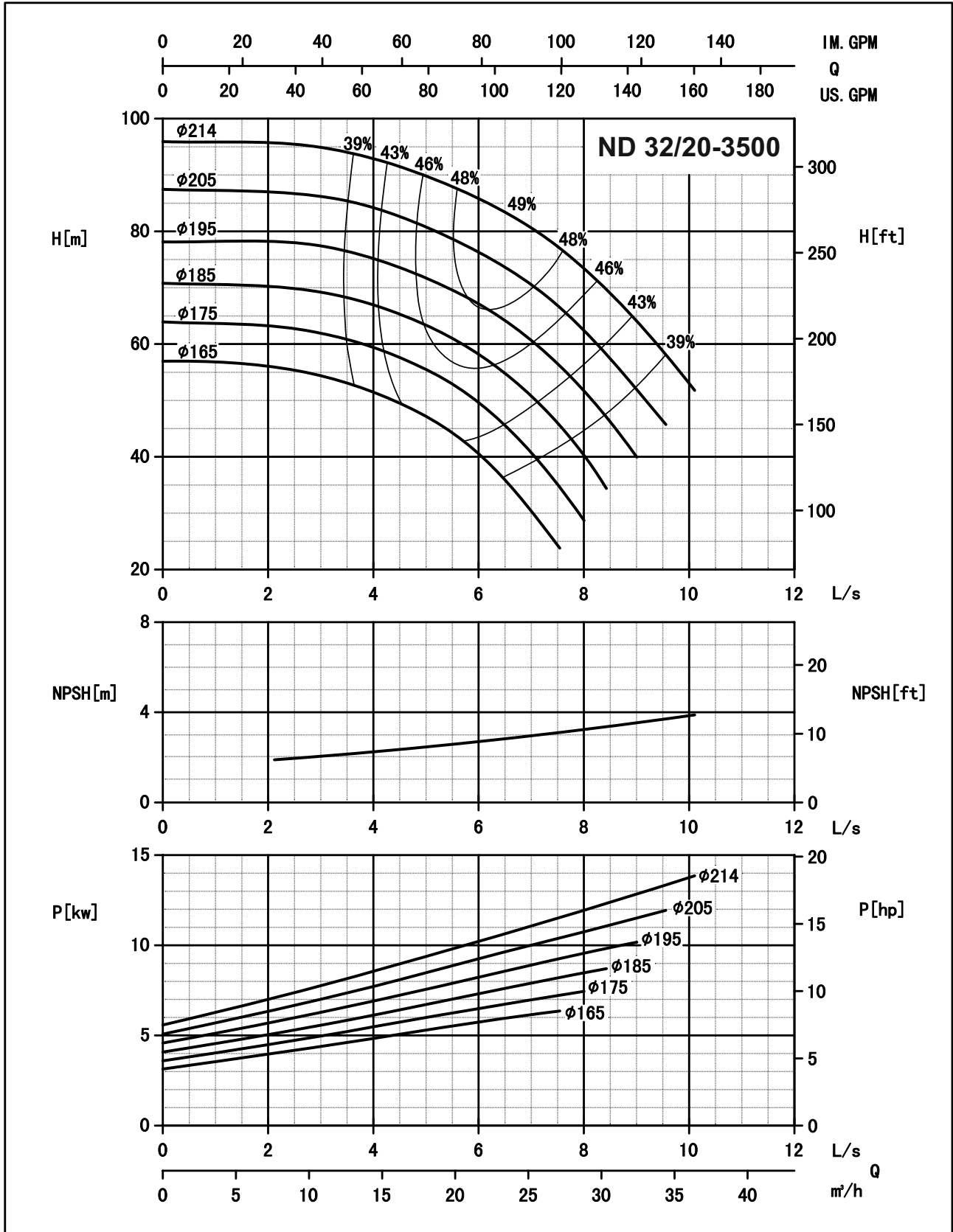
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



# Performance Curves

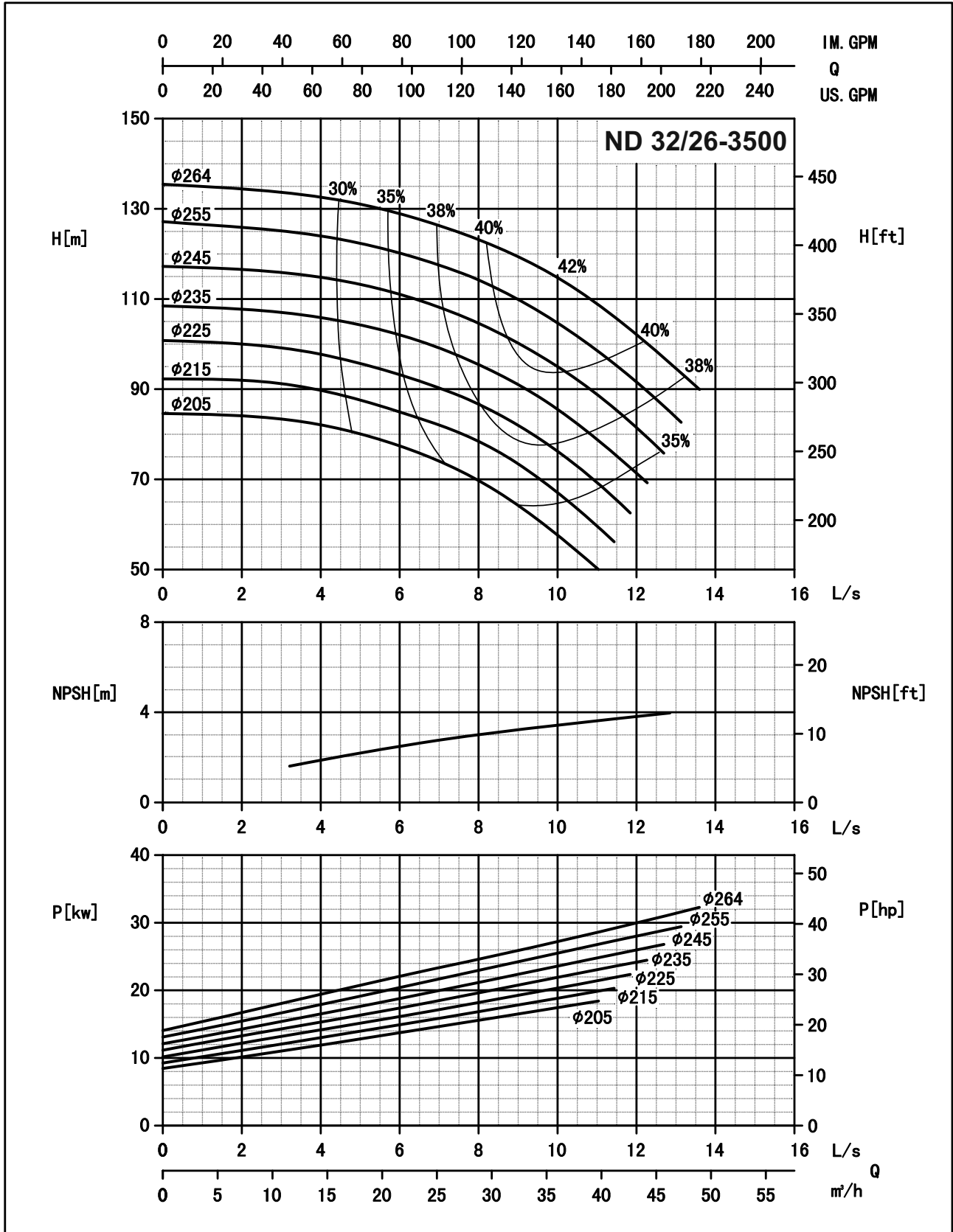
The performance curves applies to ISO9906 grade 2 for clean cold water only.





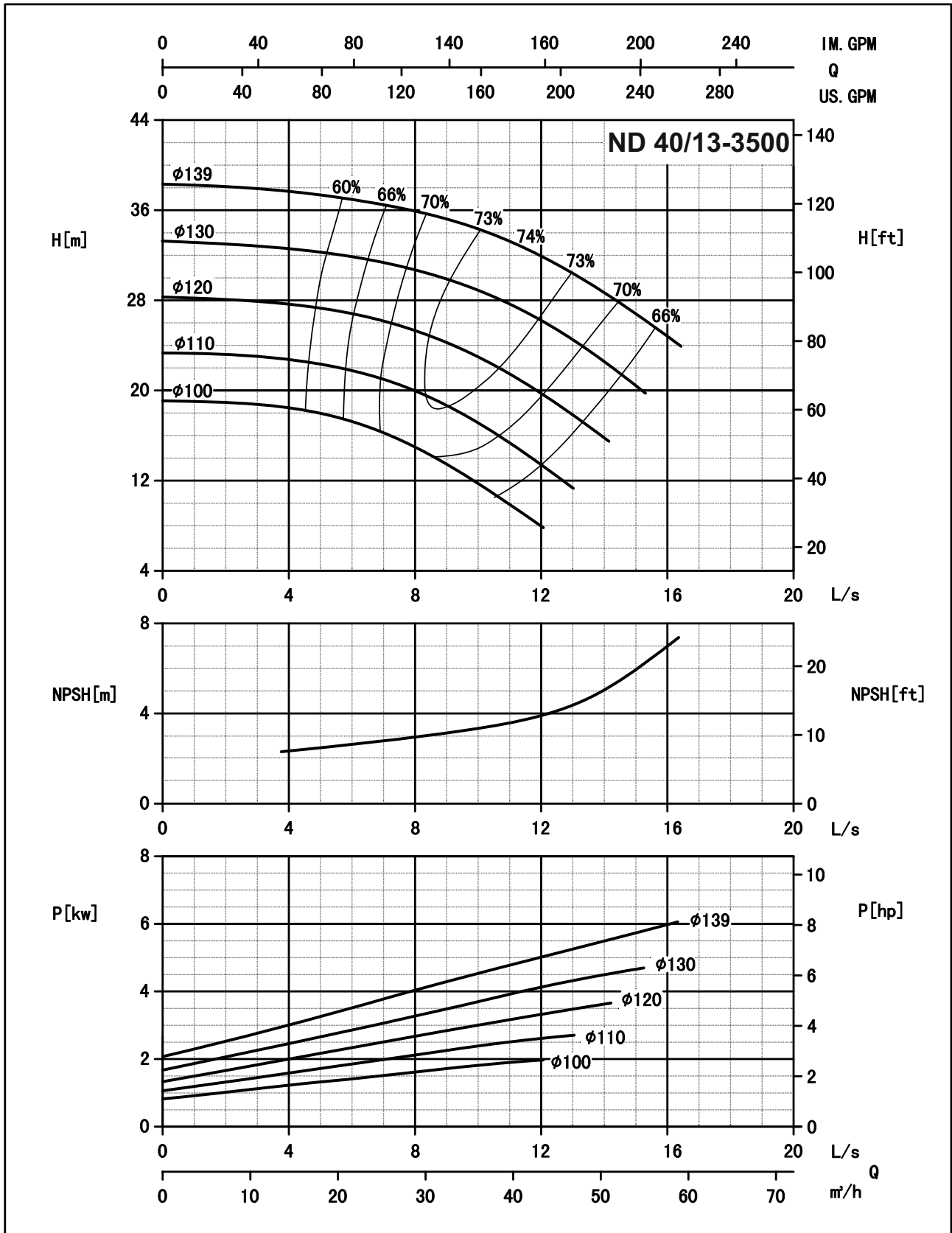
# Performance Curves

The performance curves applies to ISO9906 grade 2 for clean cold water only.



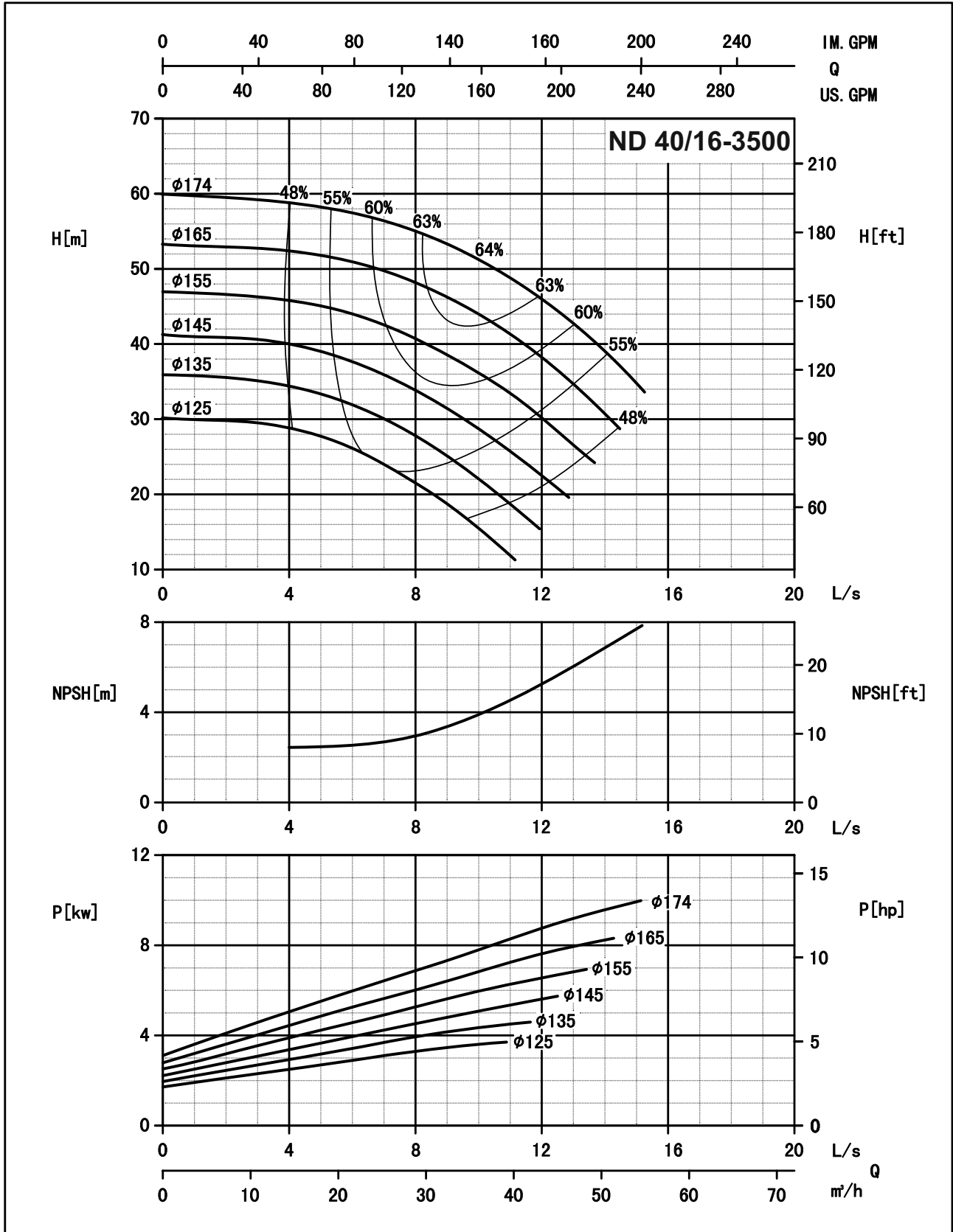
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



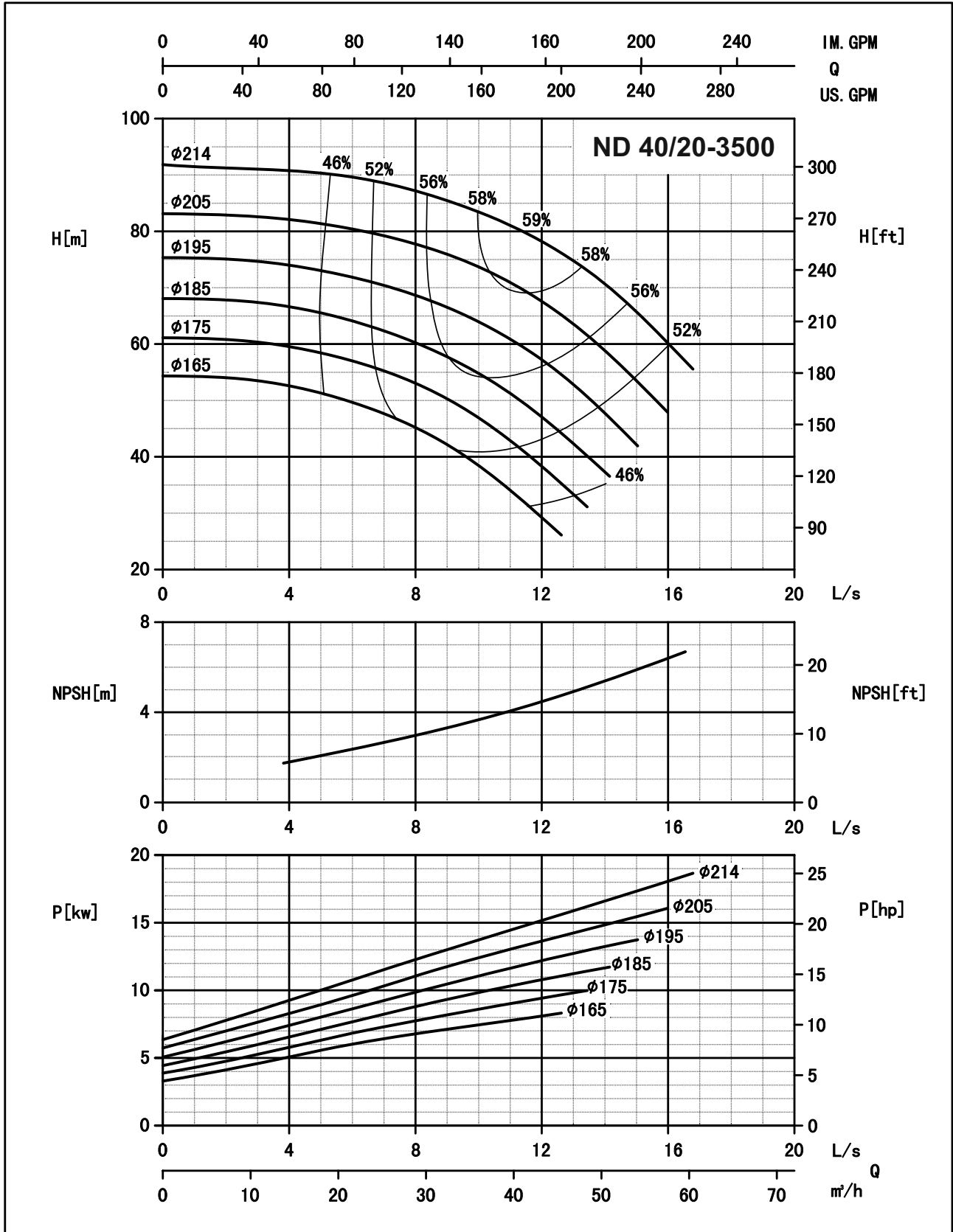
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



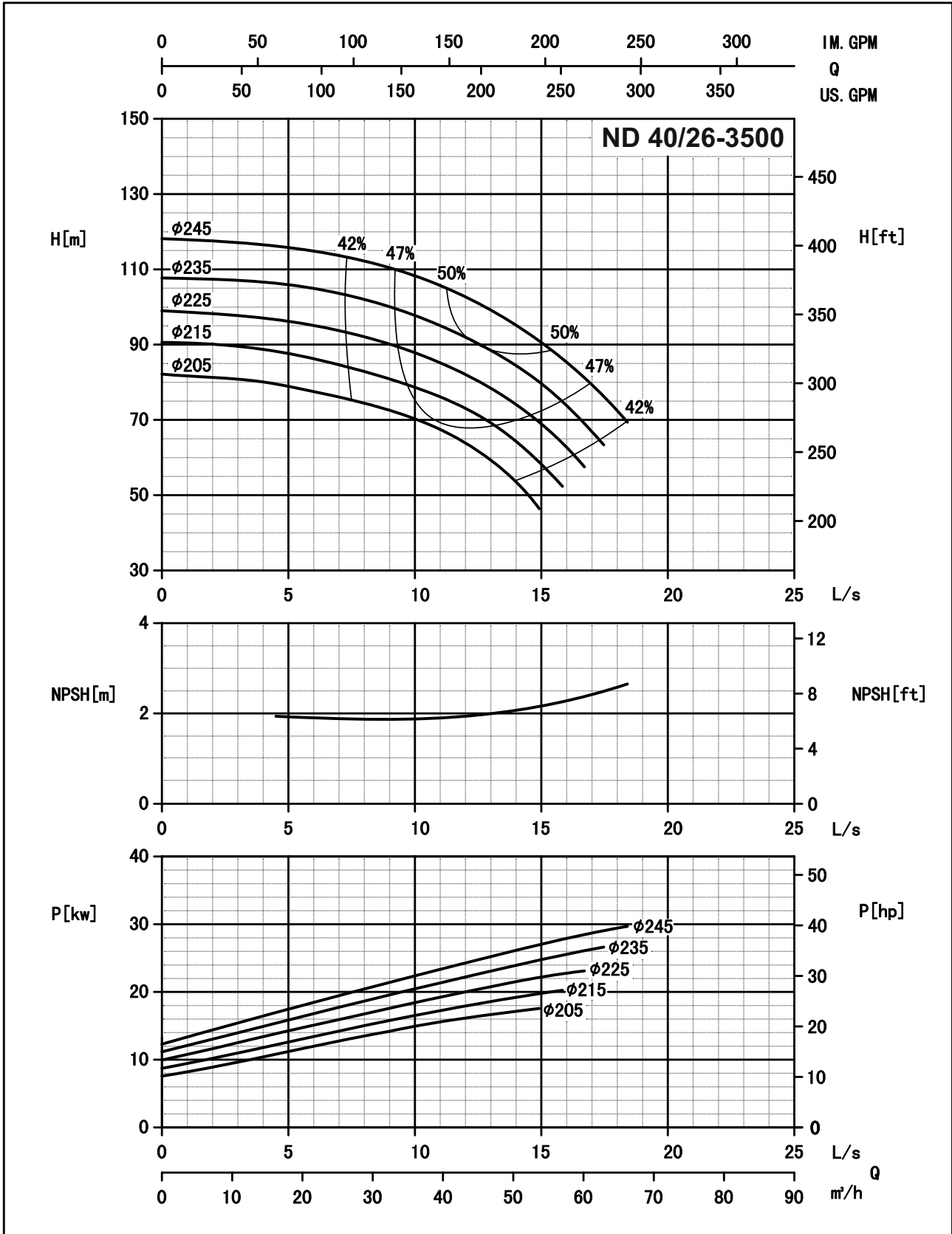
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



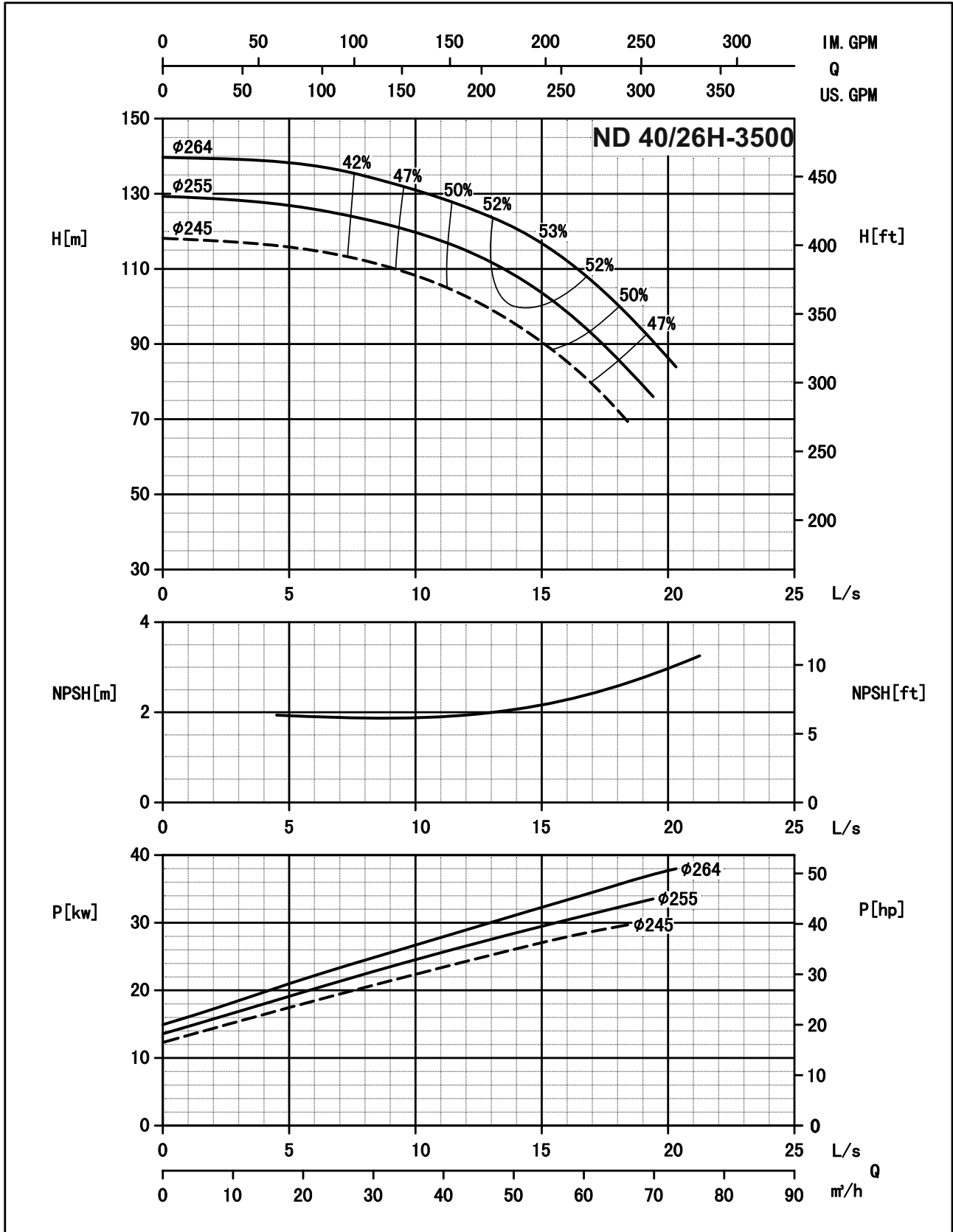
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



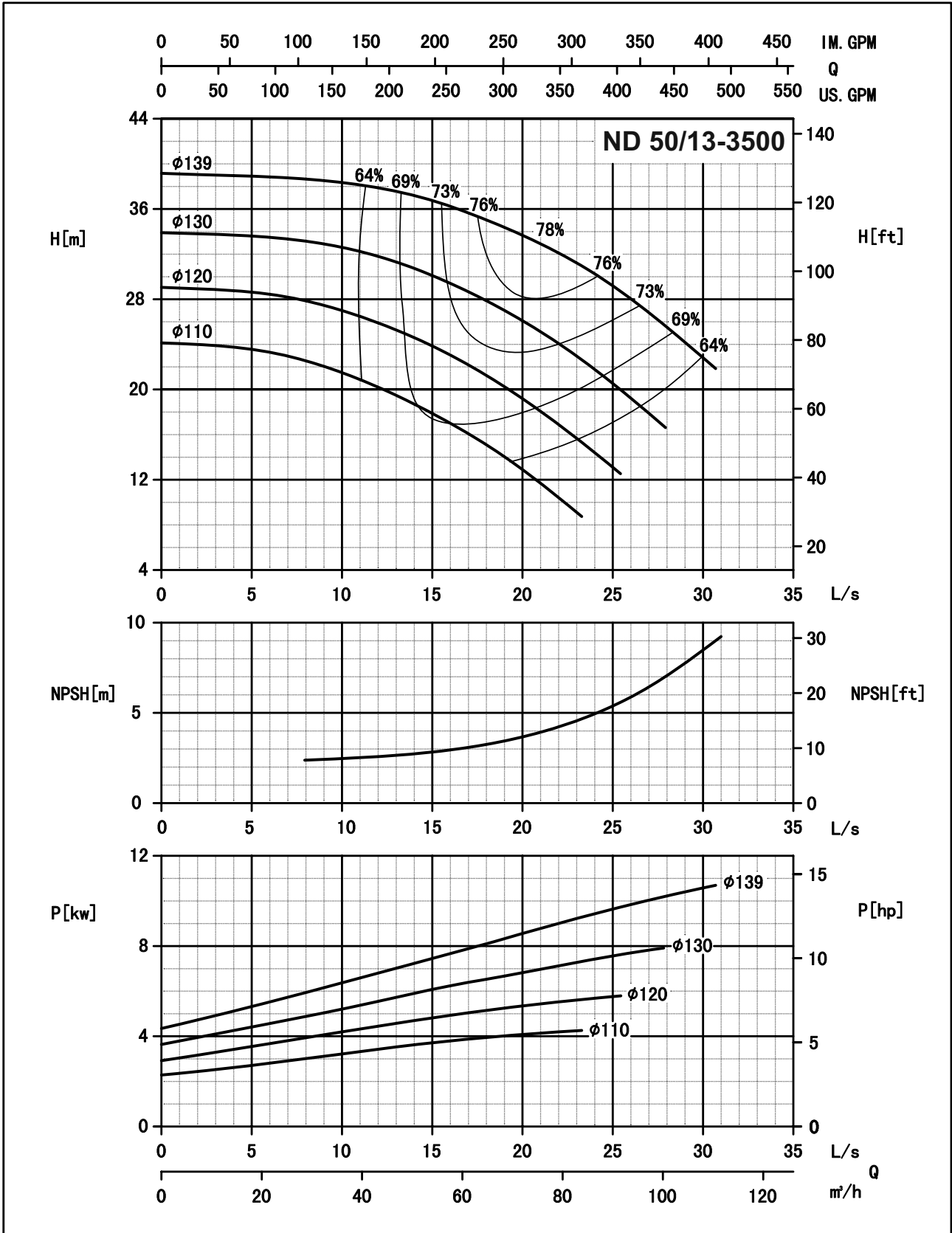
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



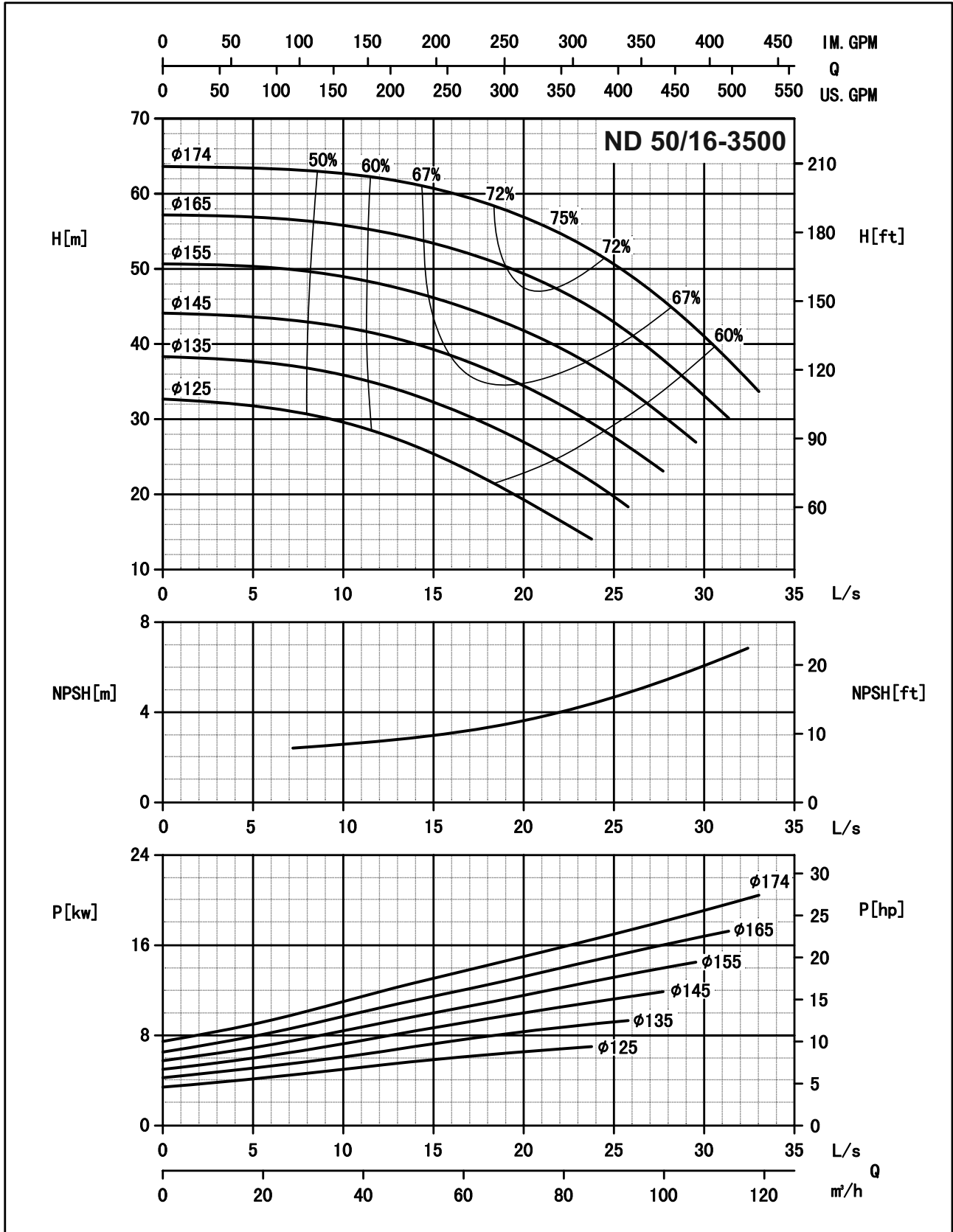
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



# Performance Curves

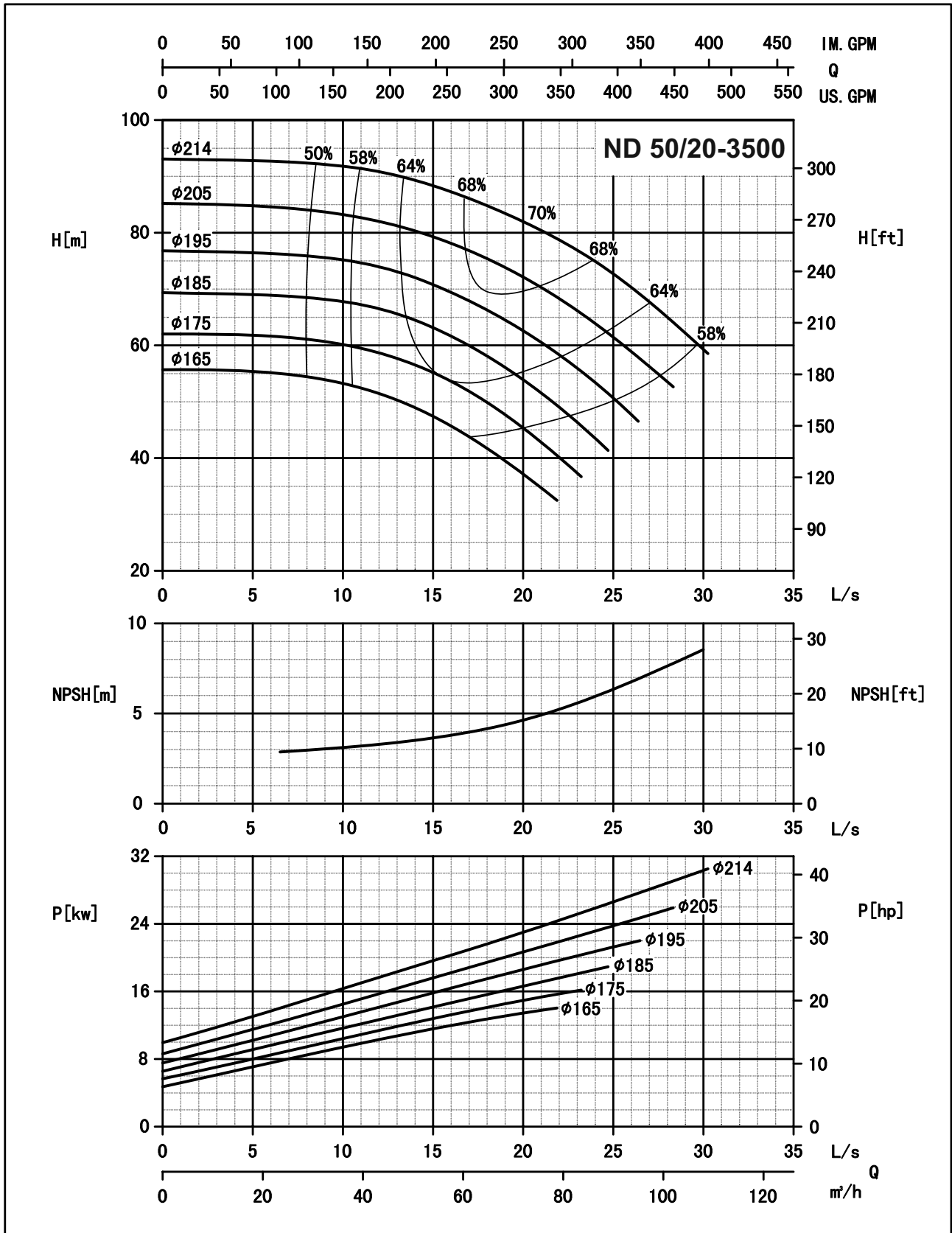
The performance curves apply to ISO9906 grade 2 for clean cold water only.





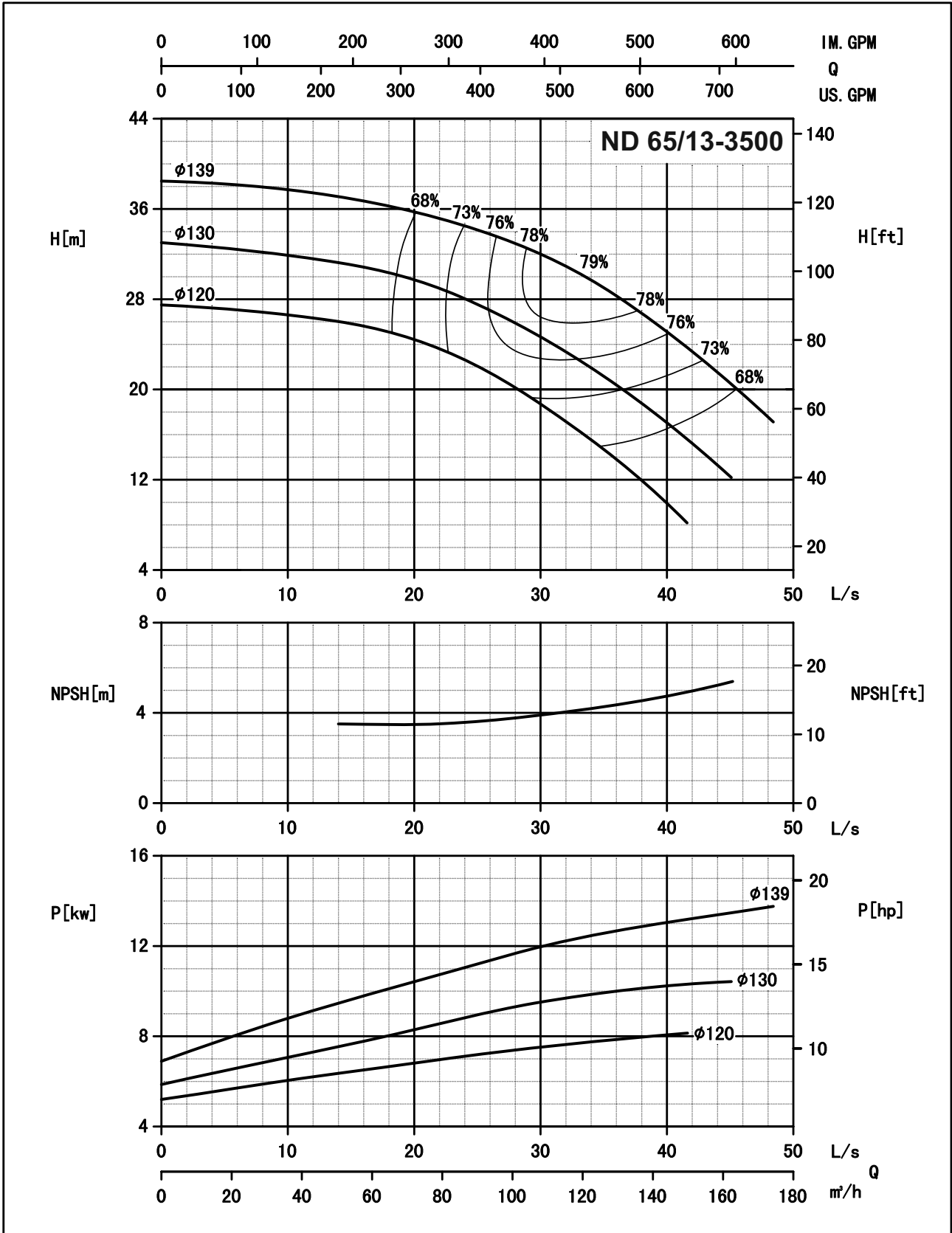
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



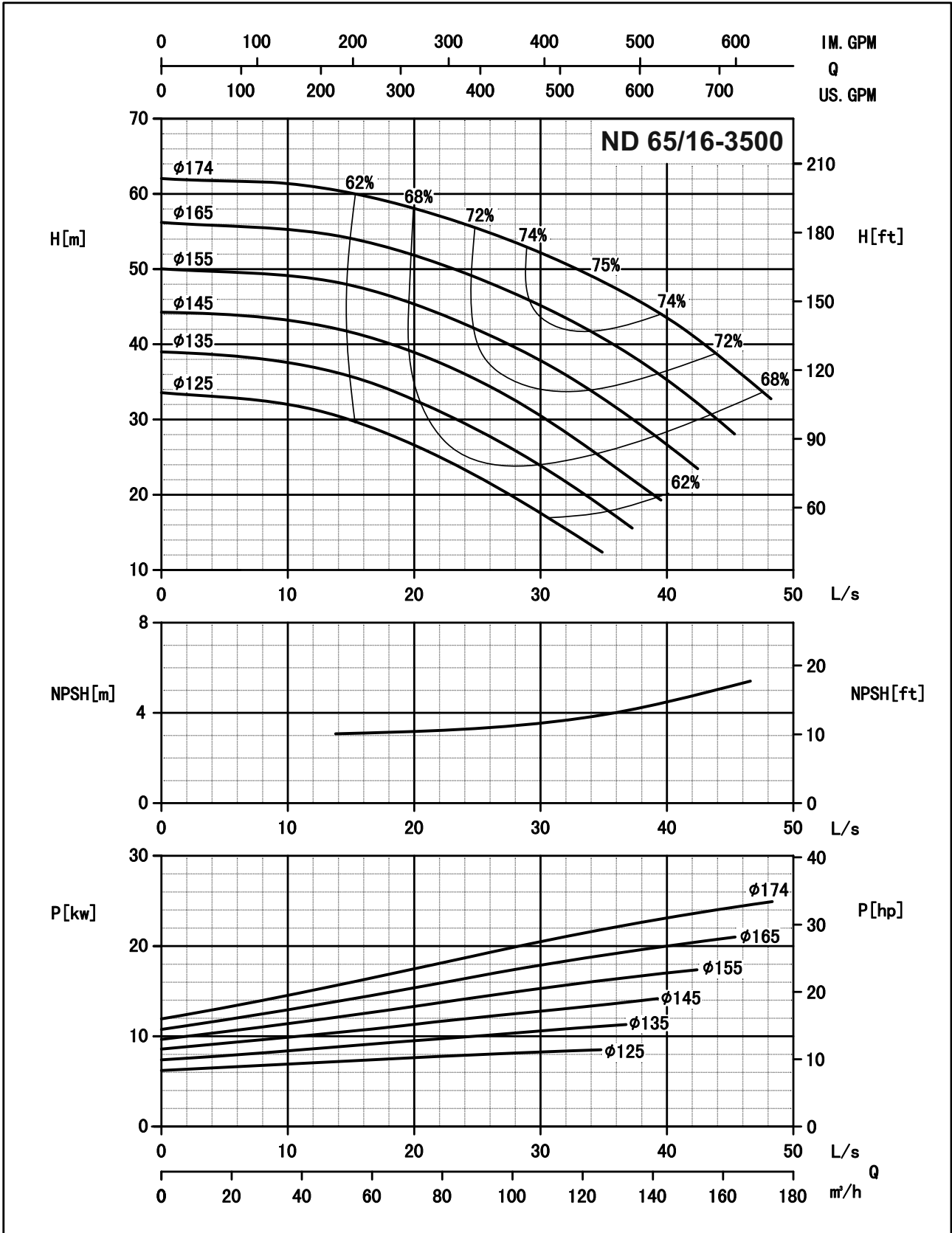
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



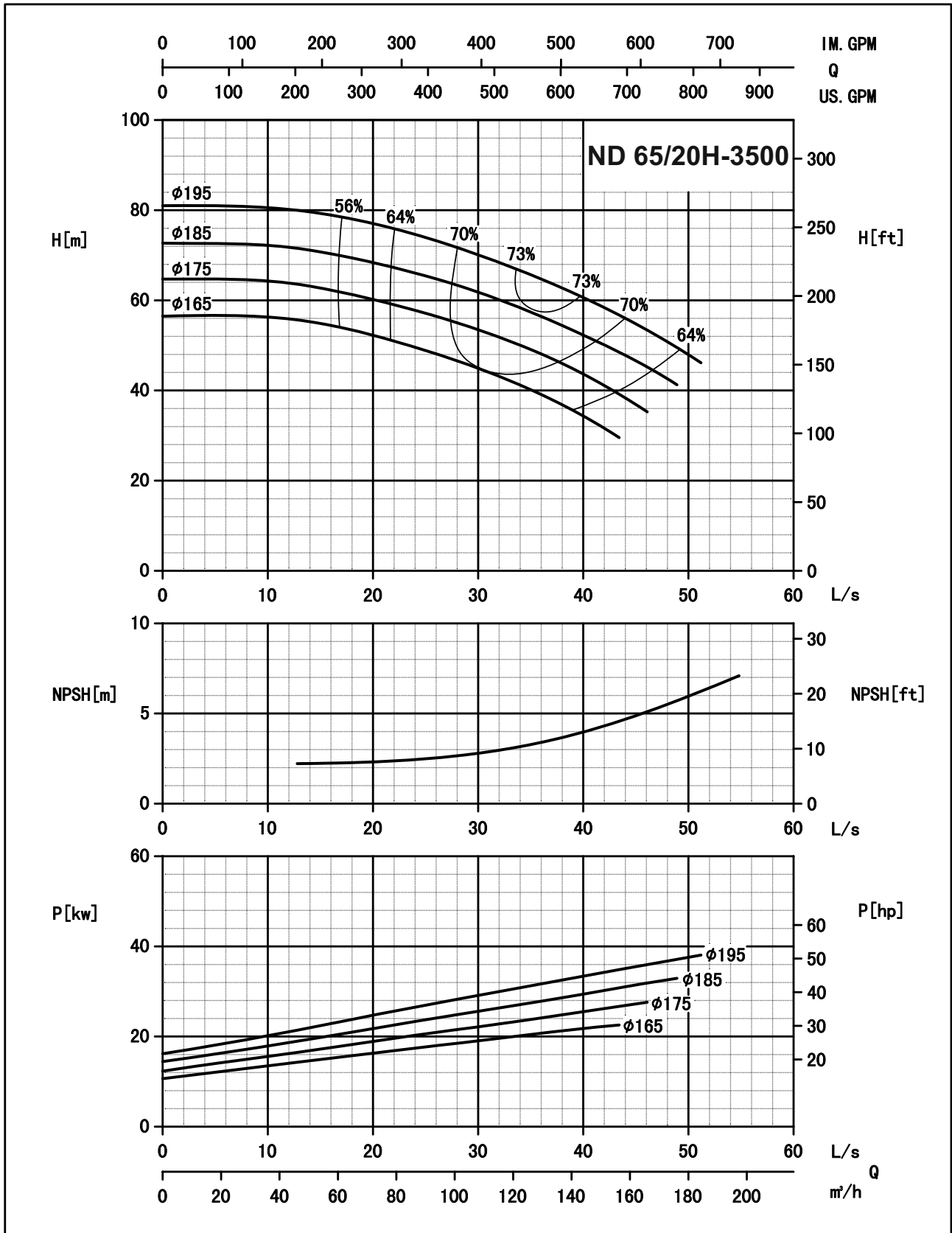
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



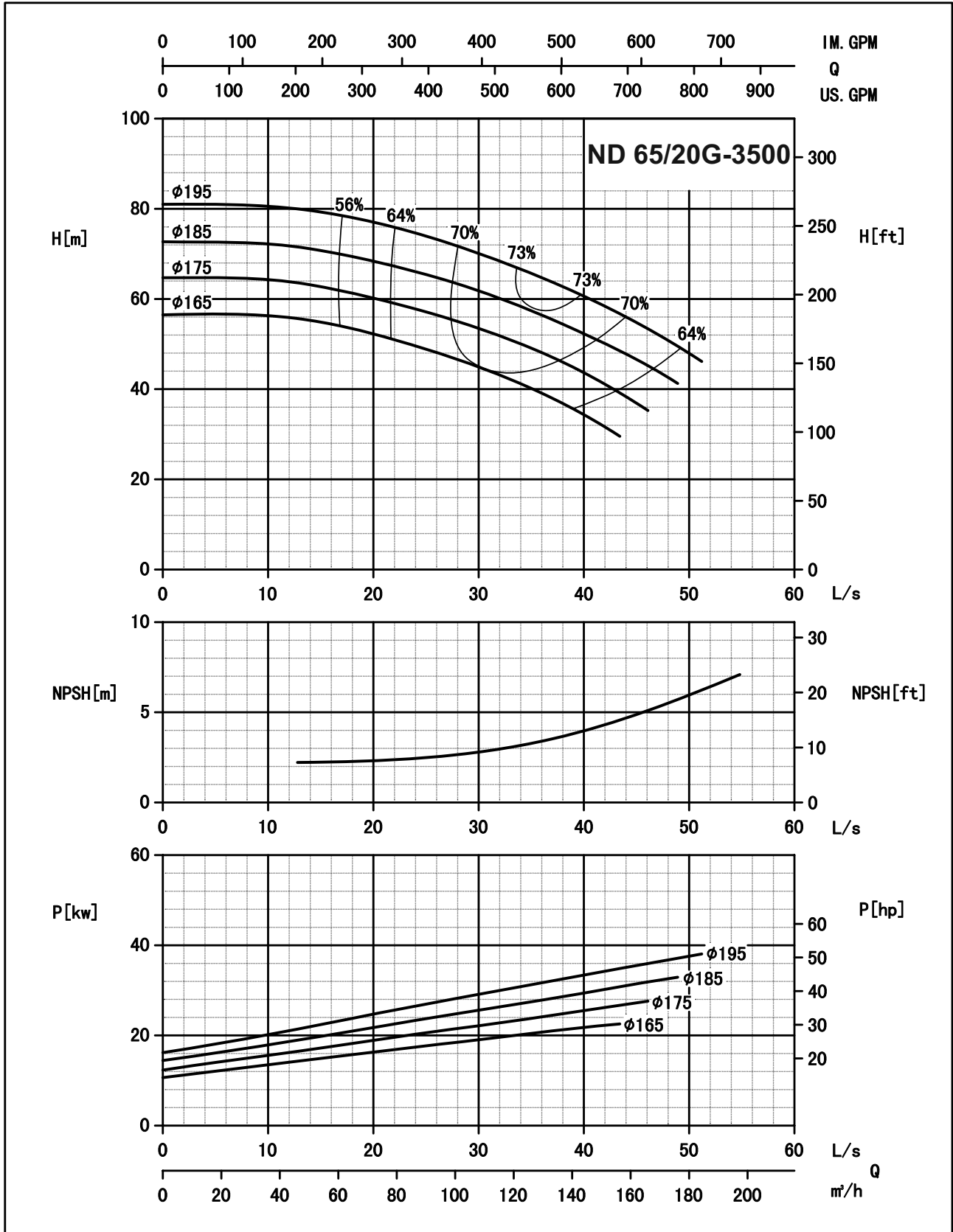
## Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



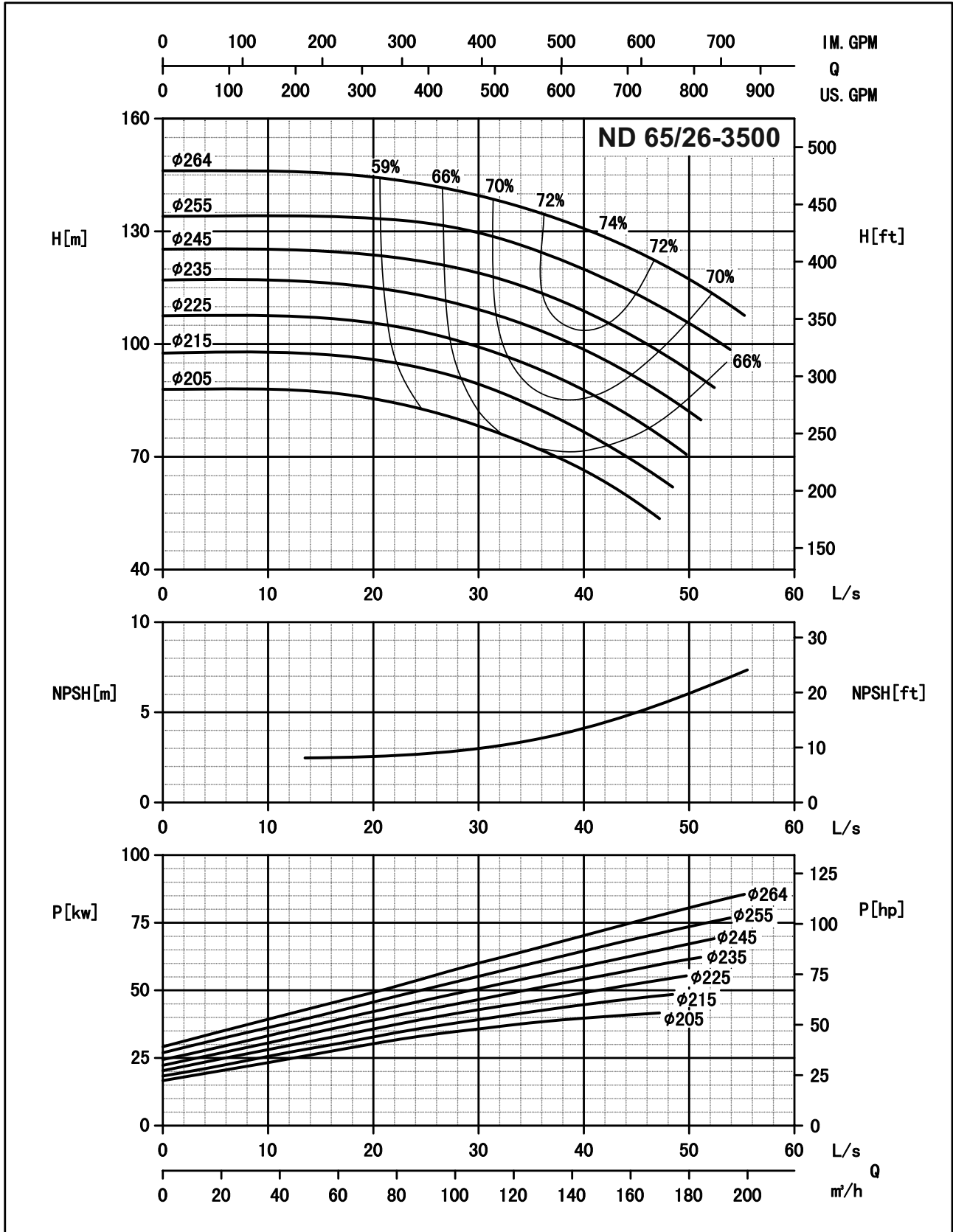
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



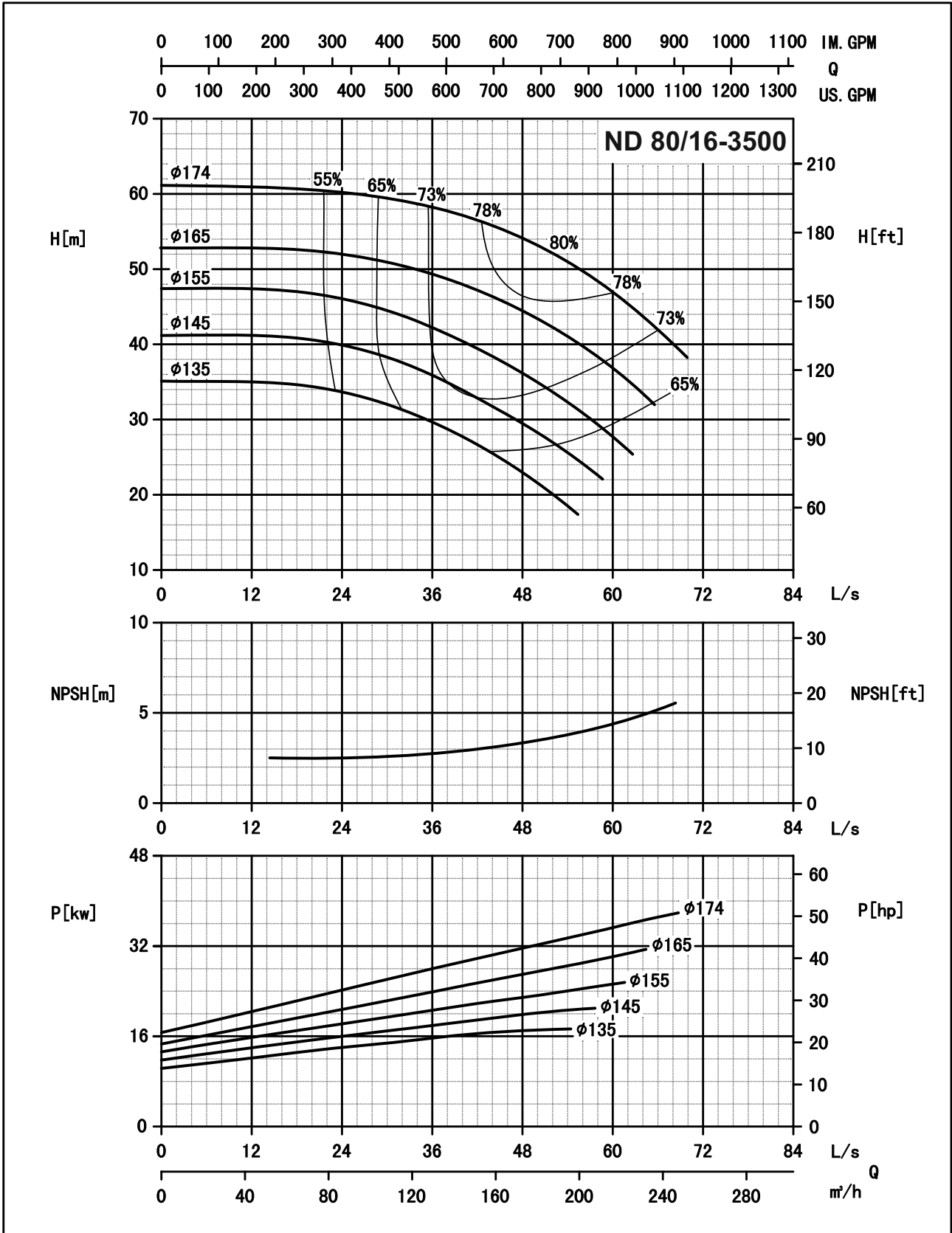
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



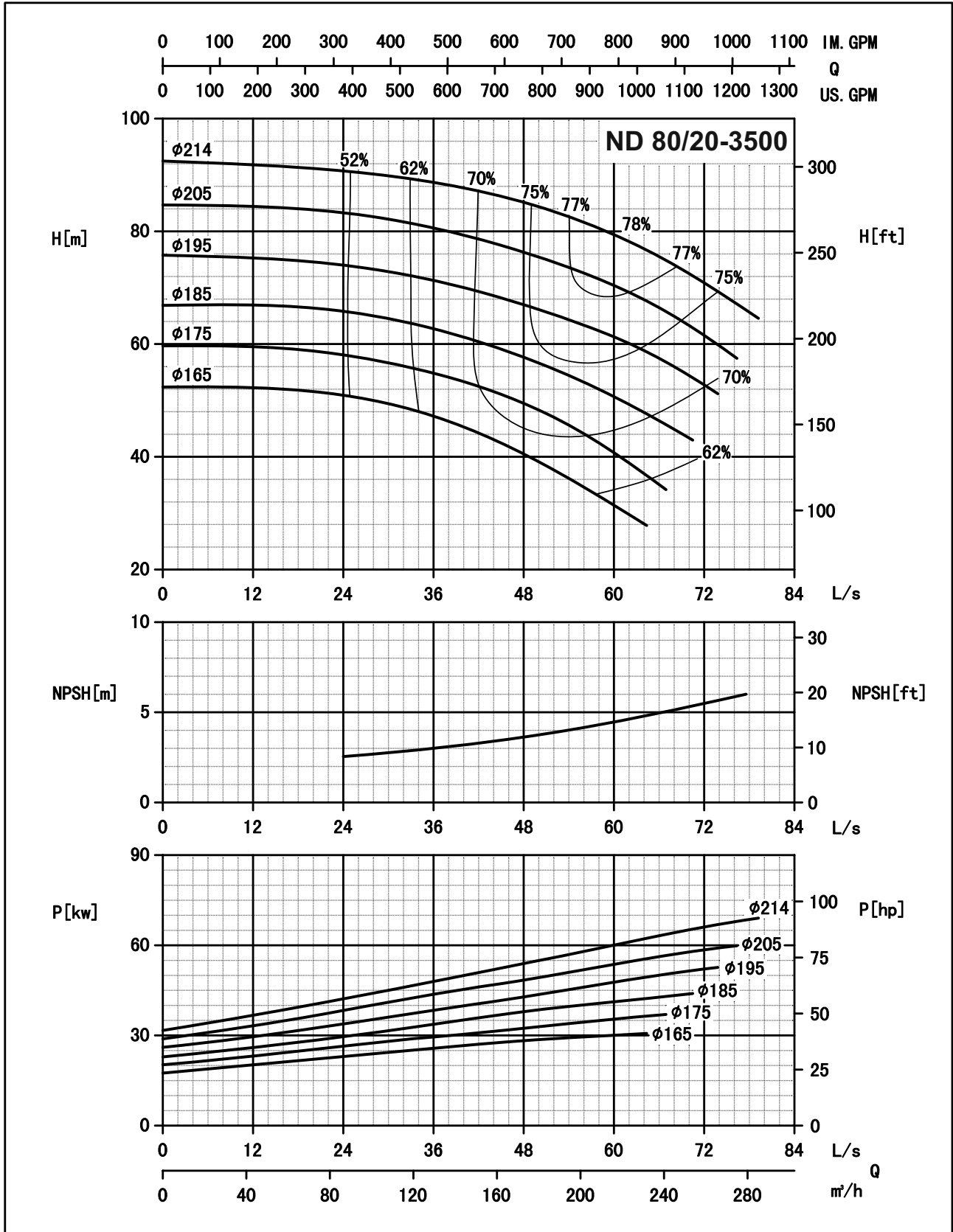
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



# Performance Curves

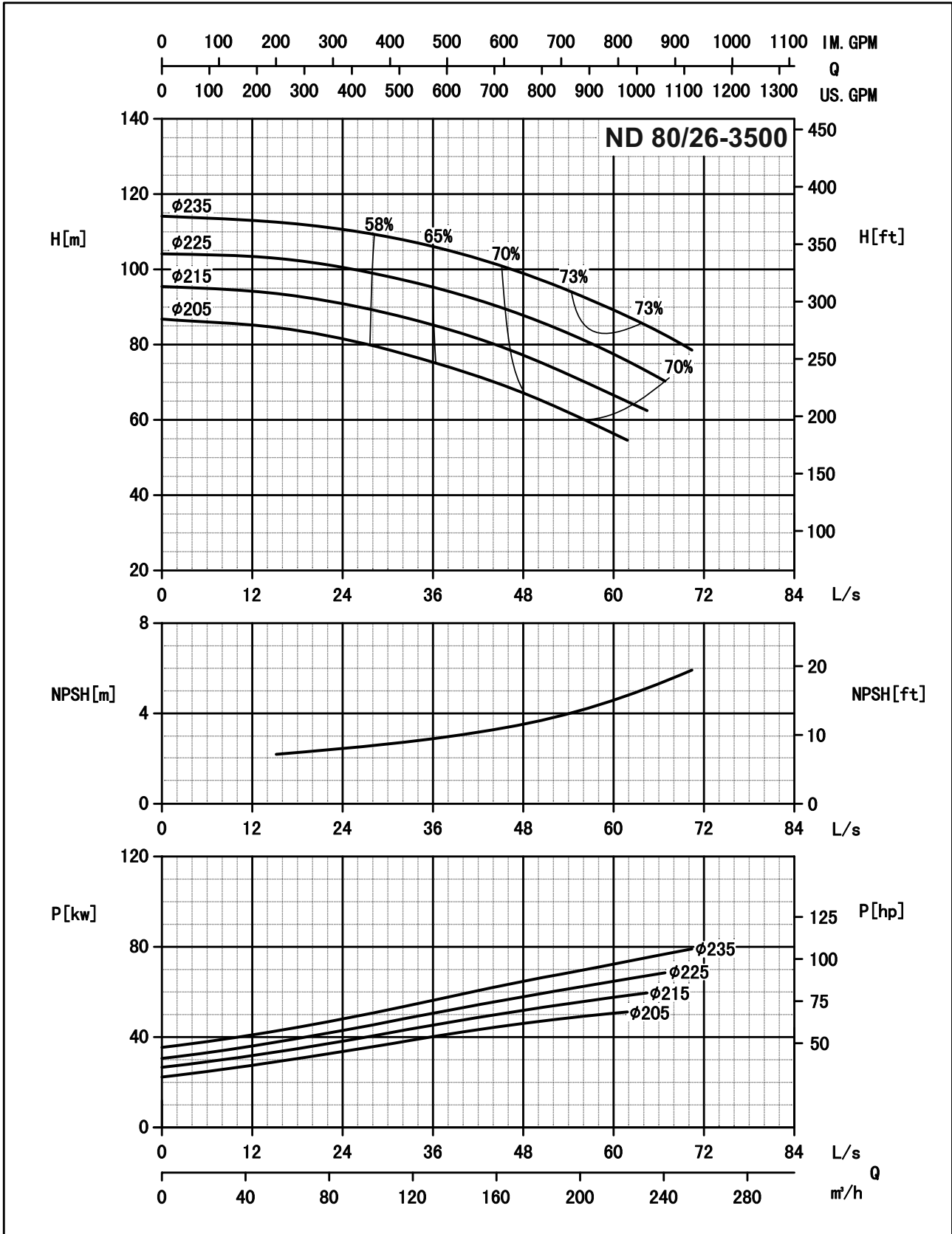
The performance curves apply to ISO9906 grade 2 for clean cold water only.





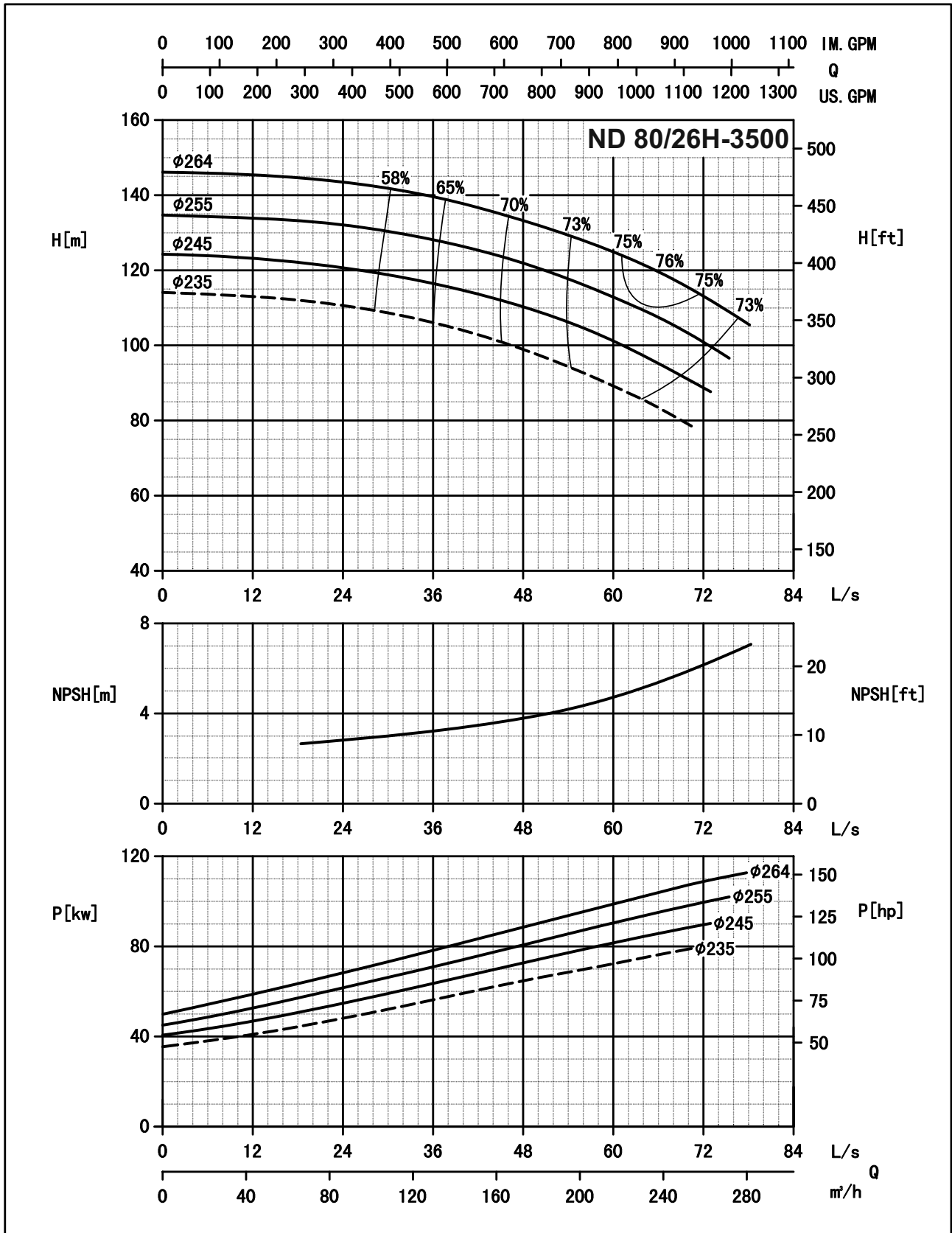
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



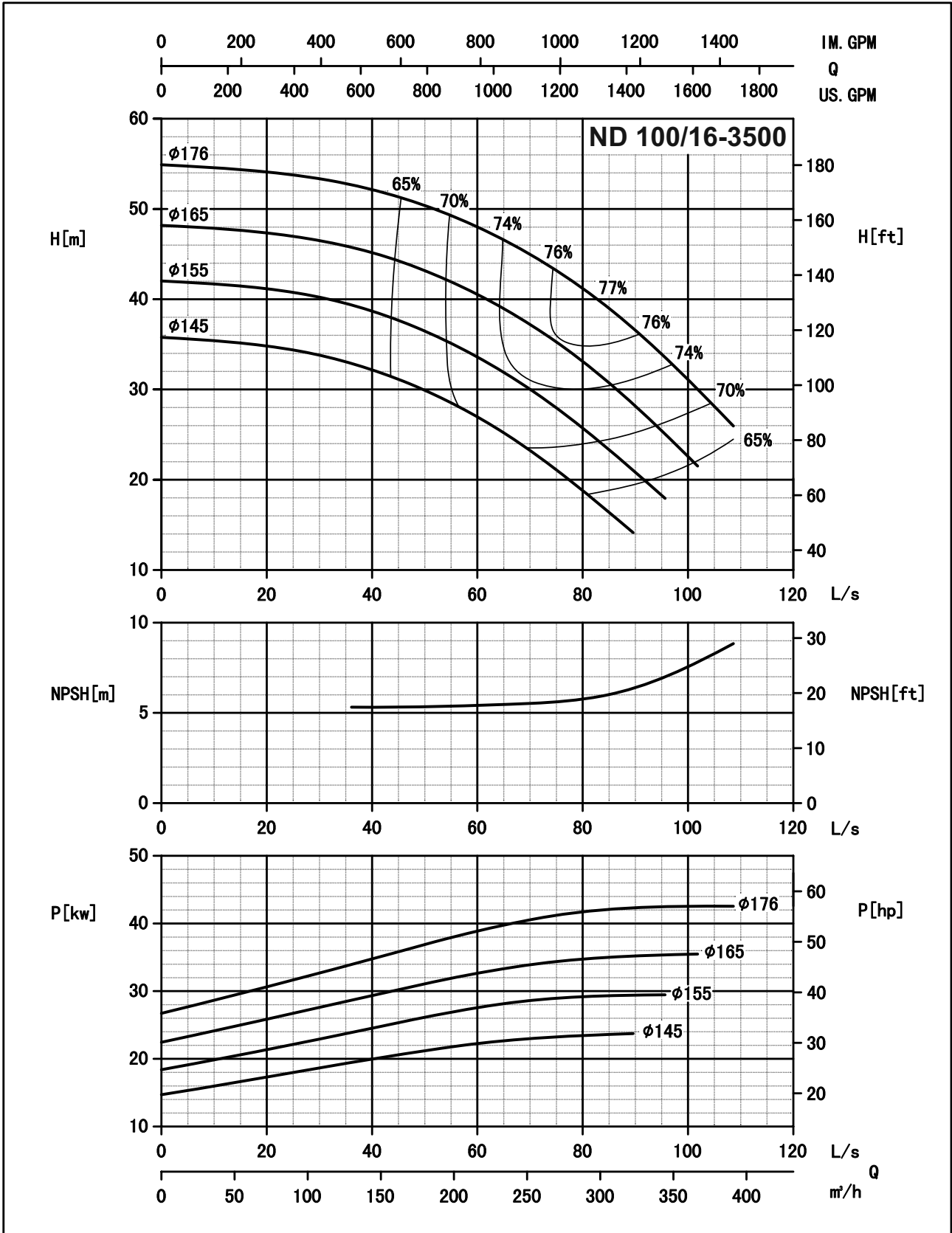
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



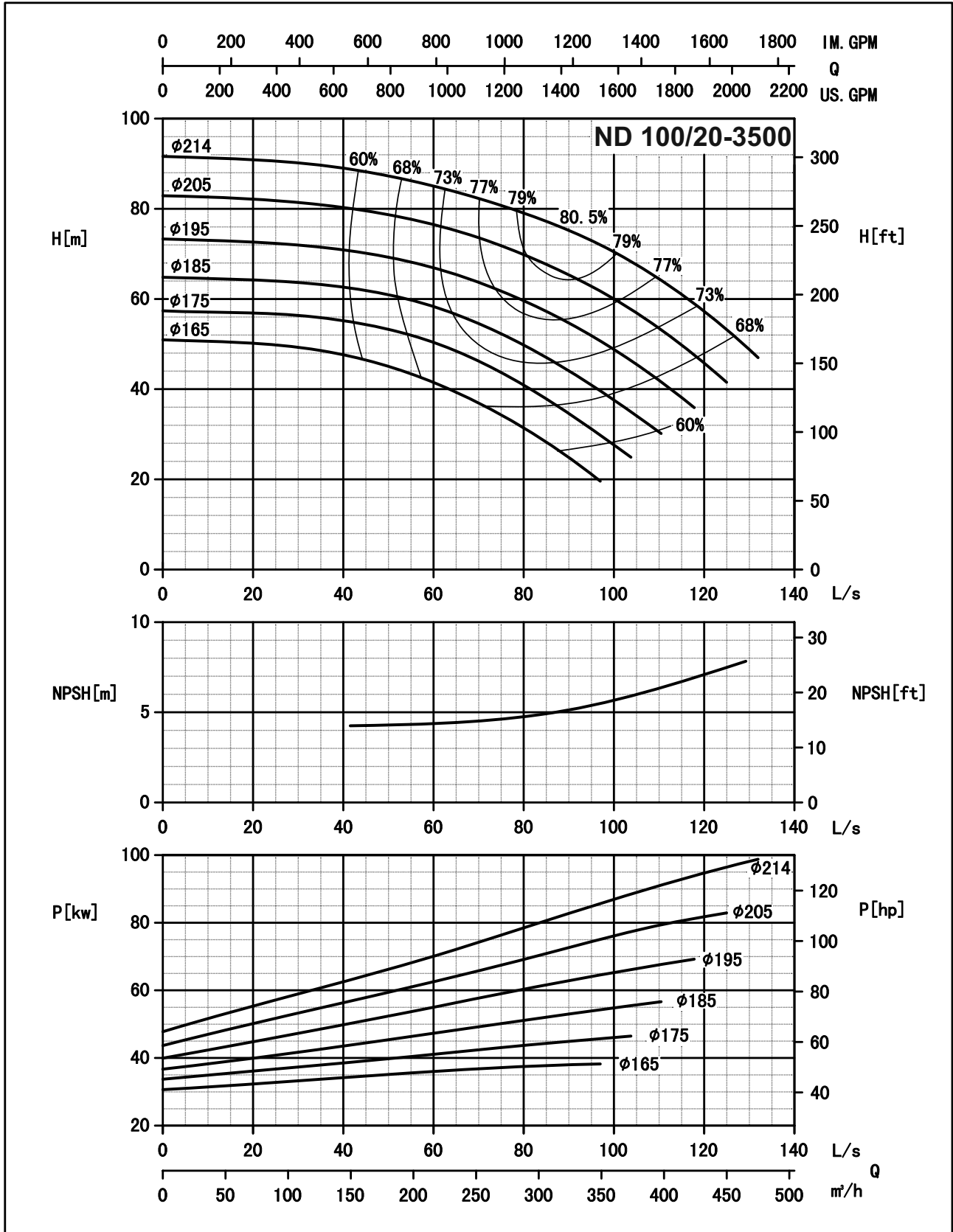
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



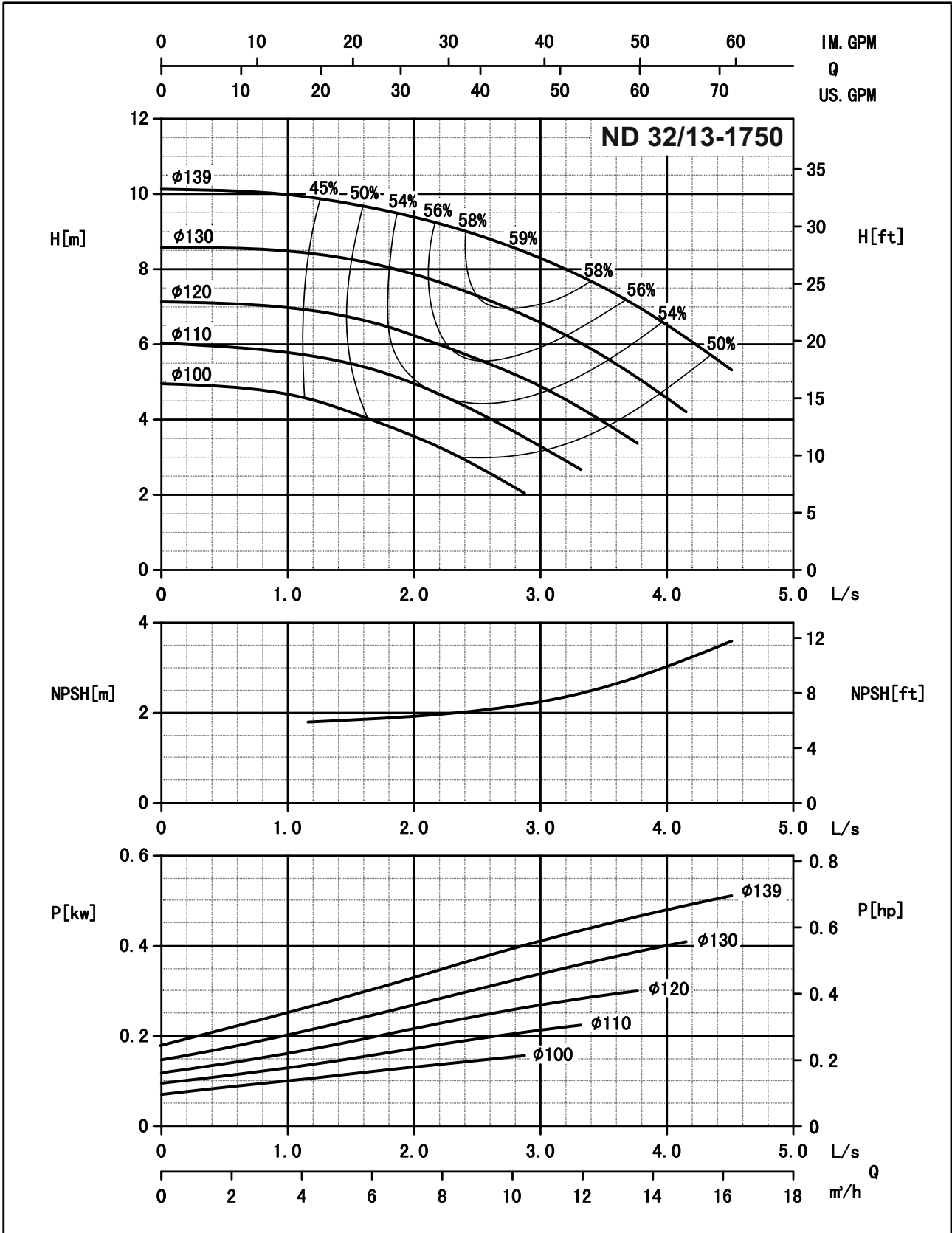
# Performance Curves

The performance curves applies to ISO9906 grade 2 for clean cold water only.



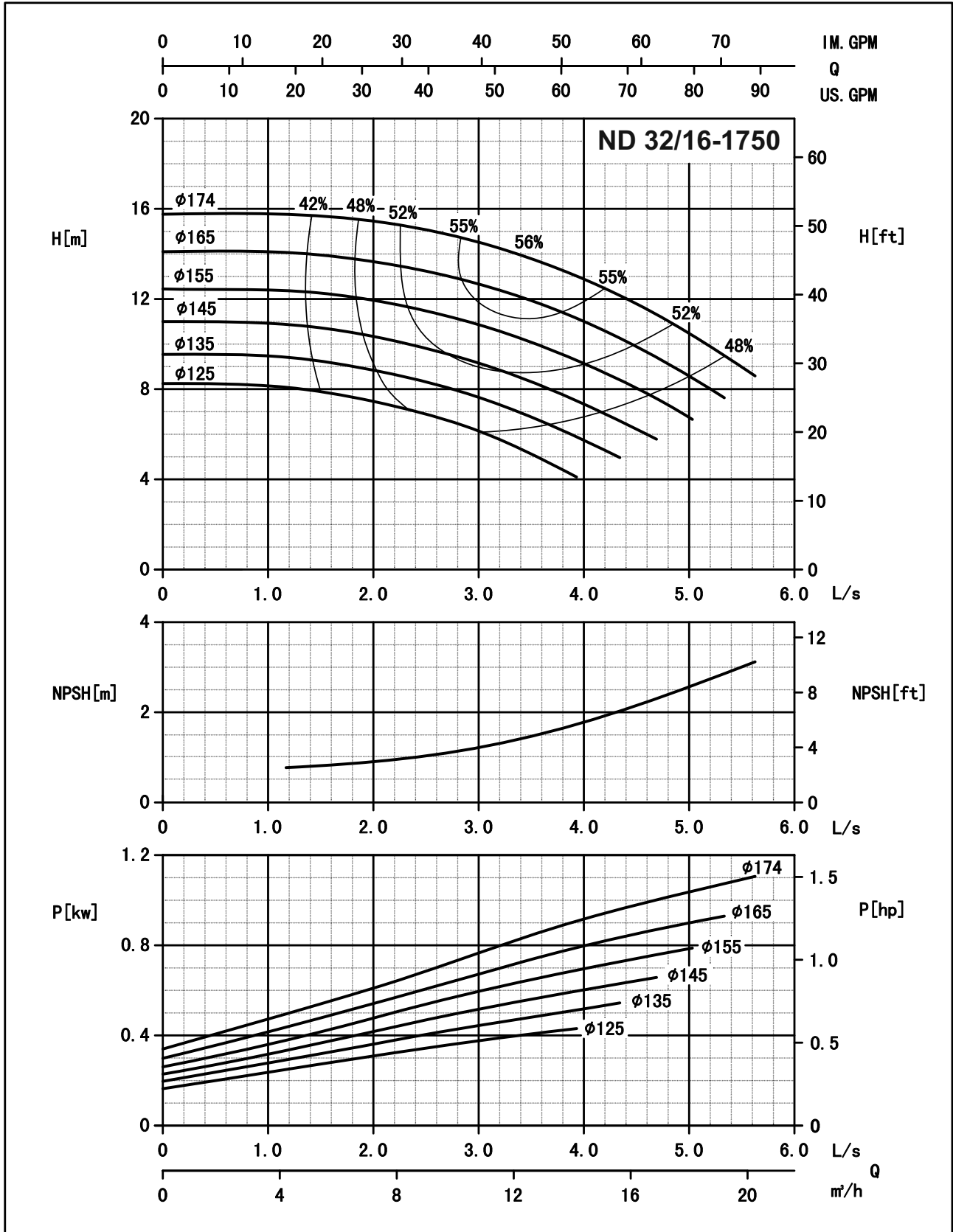
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



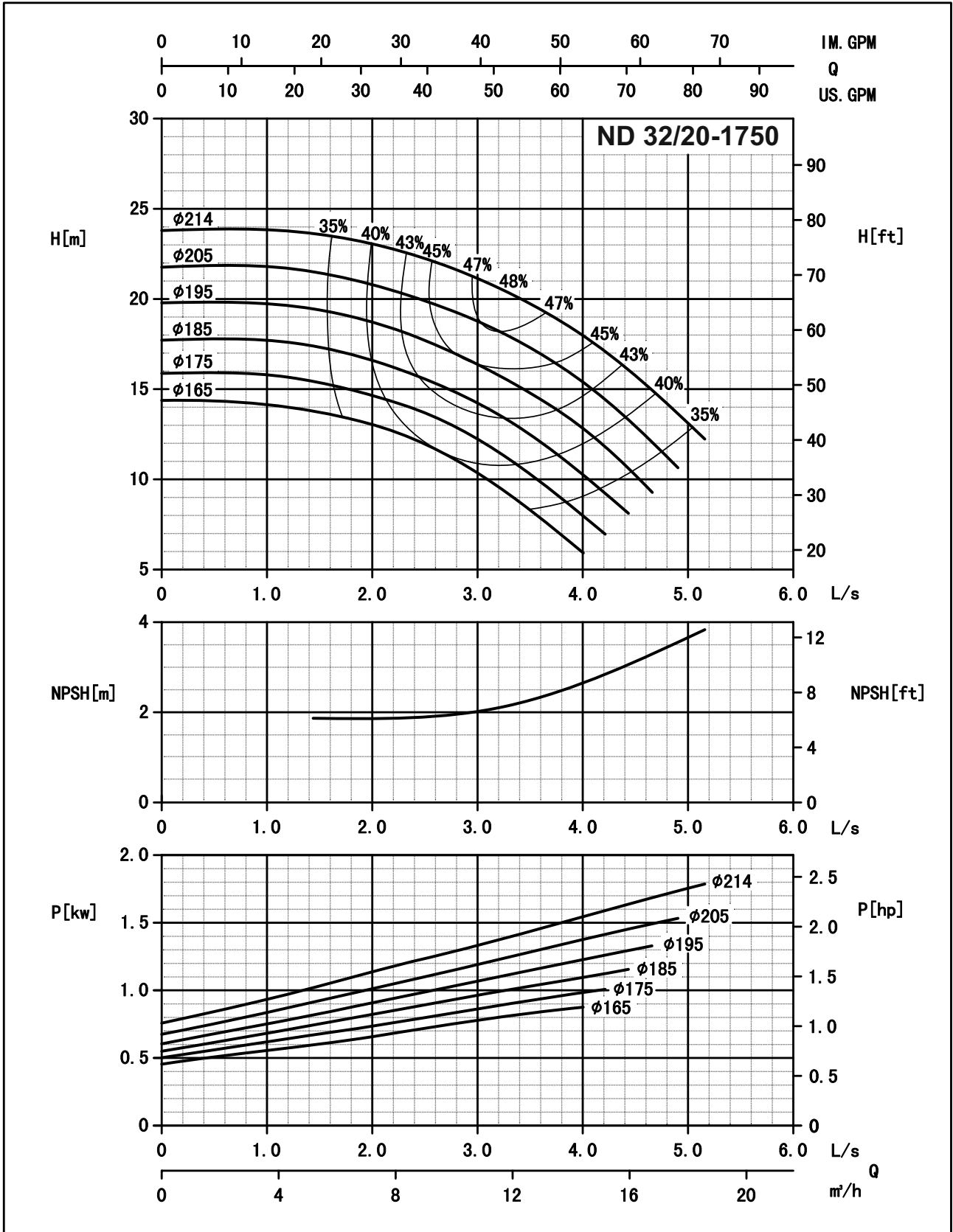
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



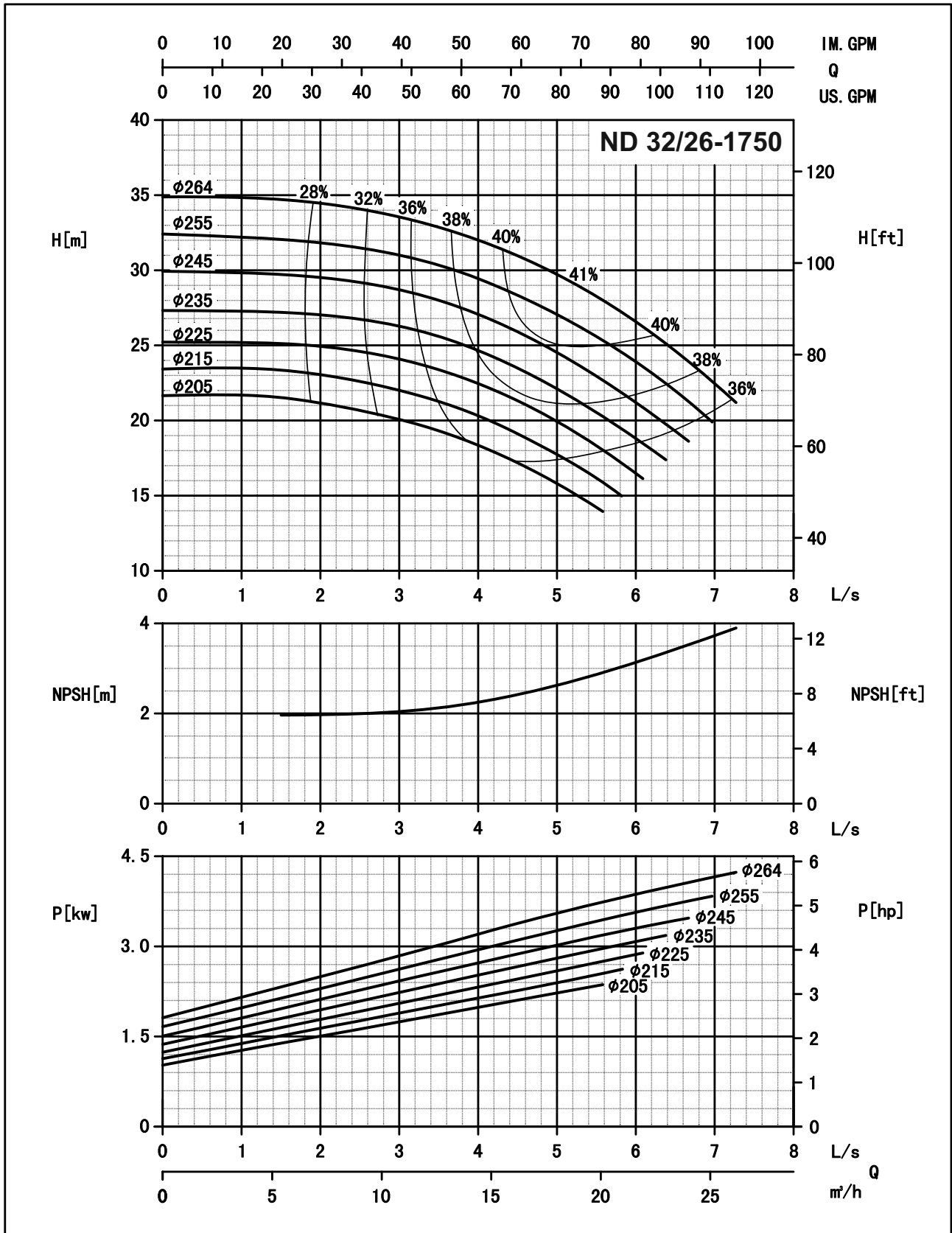
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



# Performance Curves

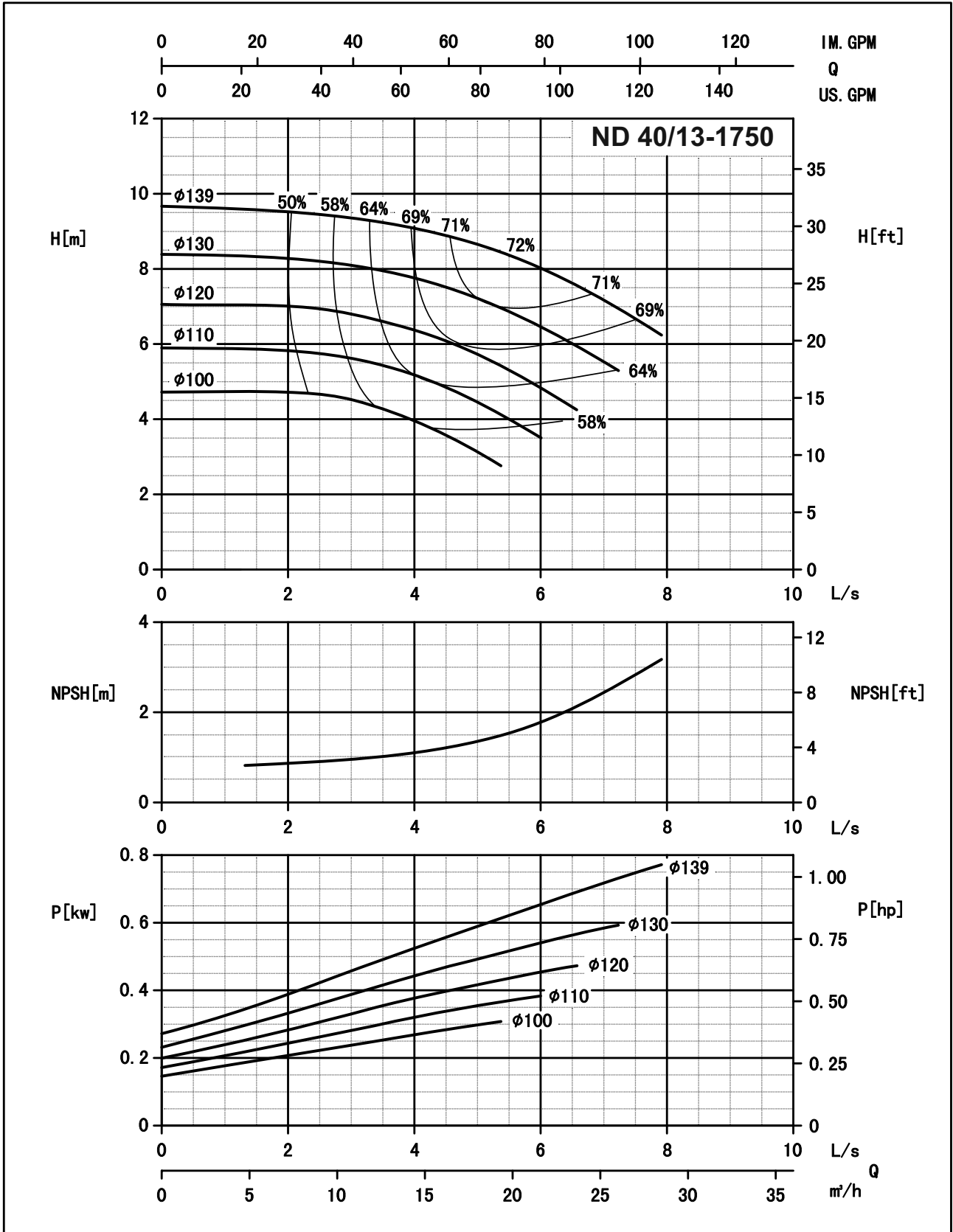
The performance curves apply to ISO9906 grade 2 for clean cold water only.





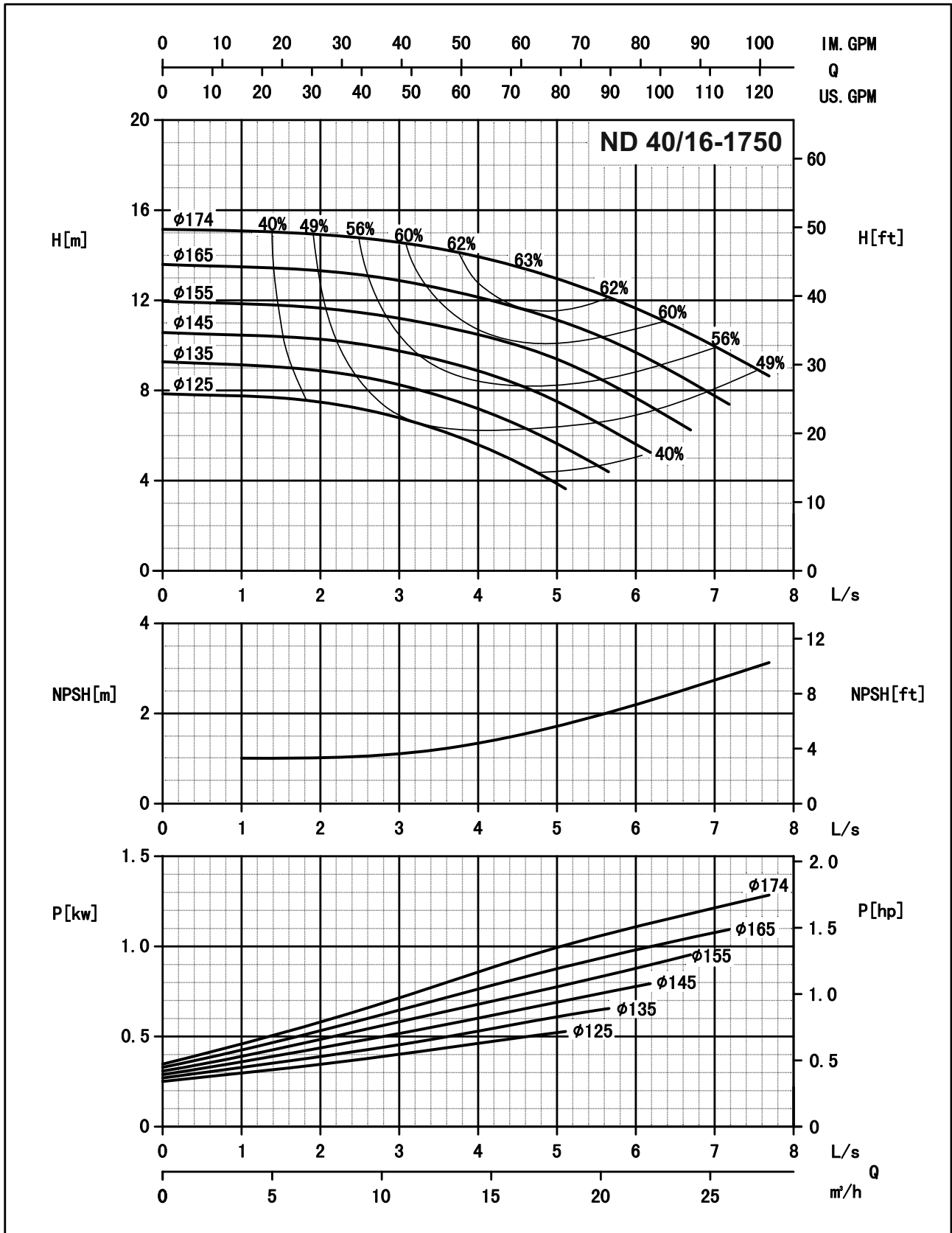
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



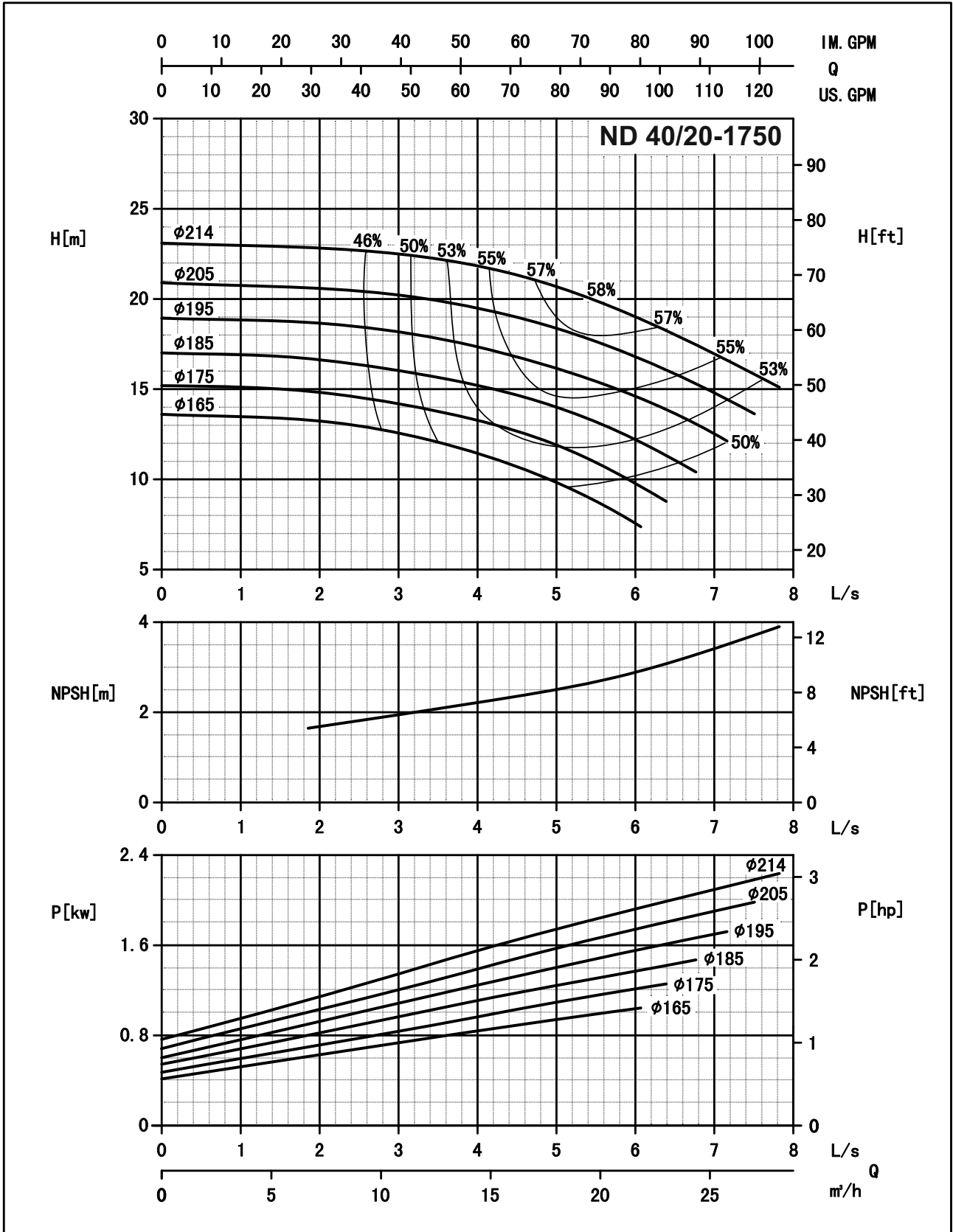
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



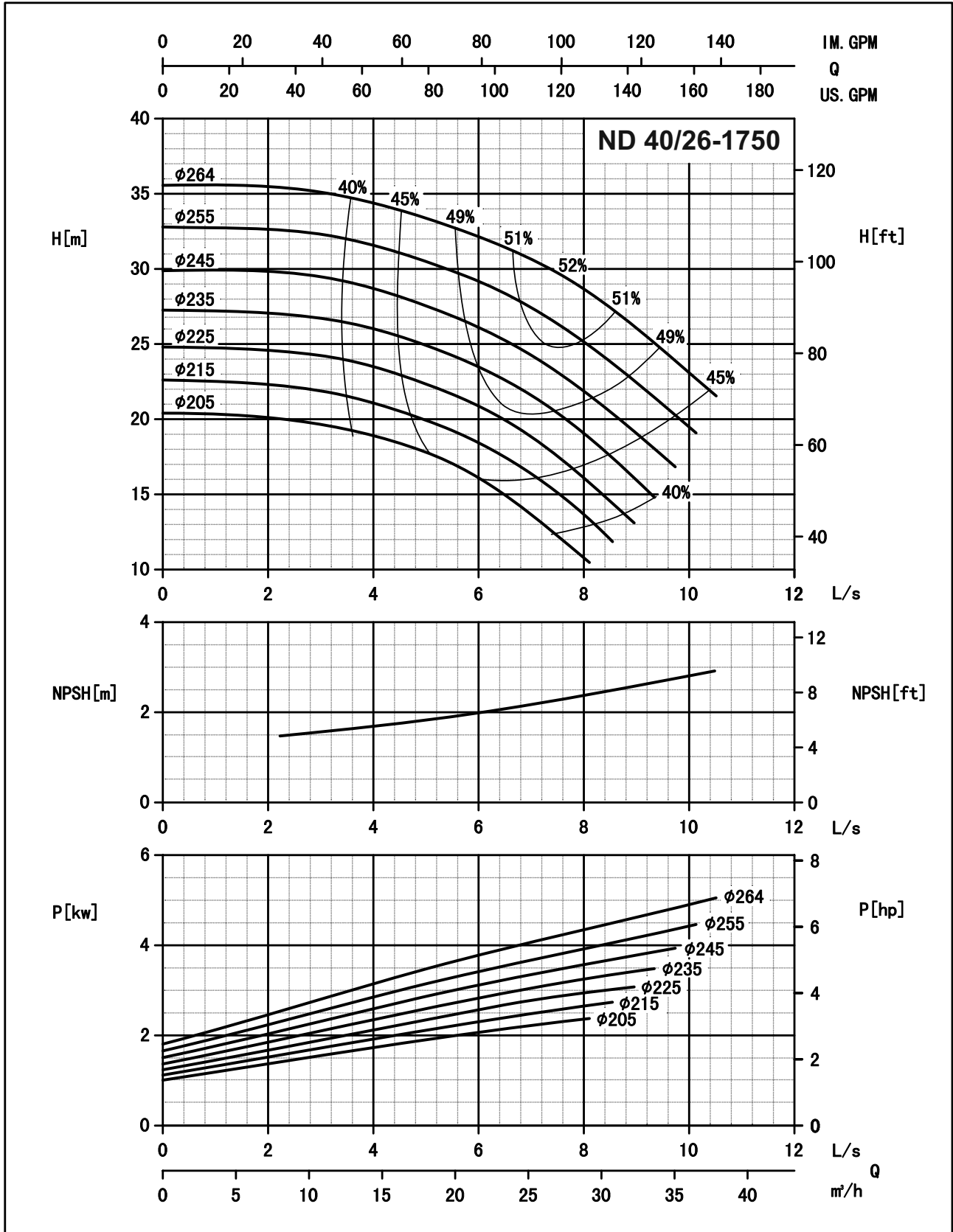
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



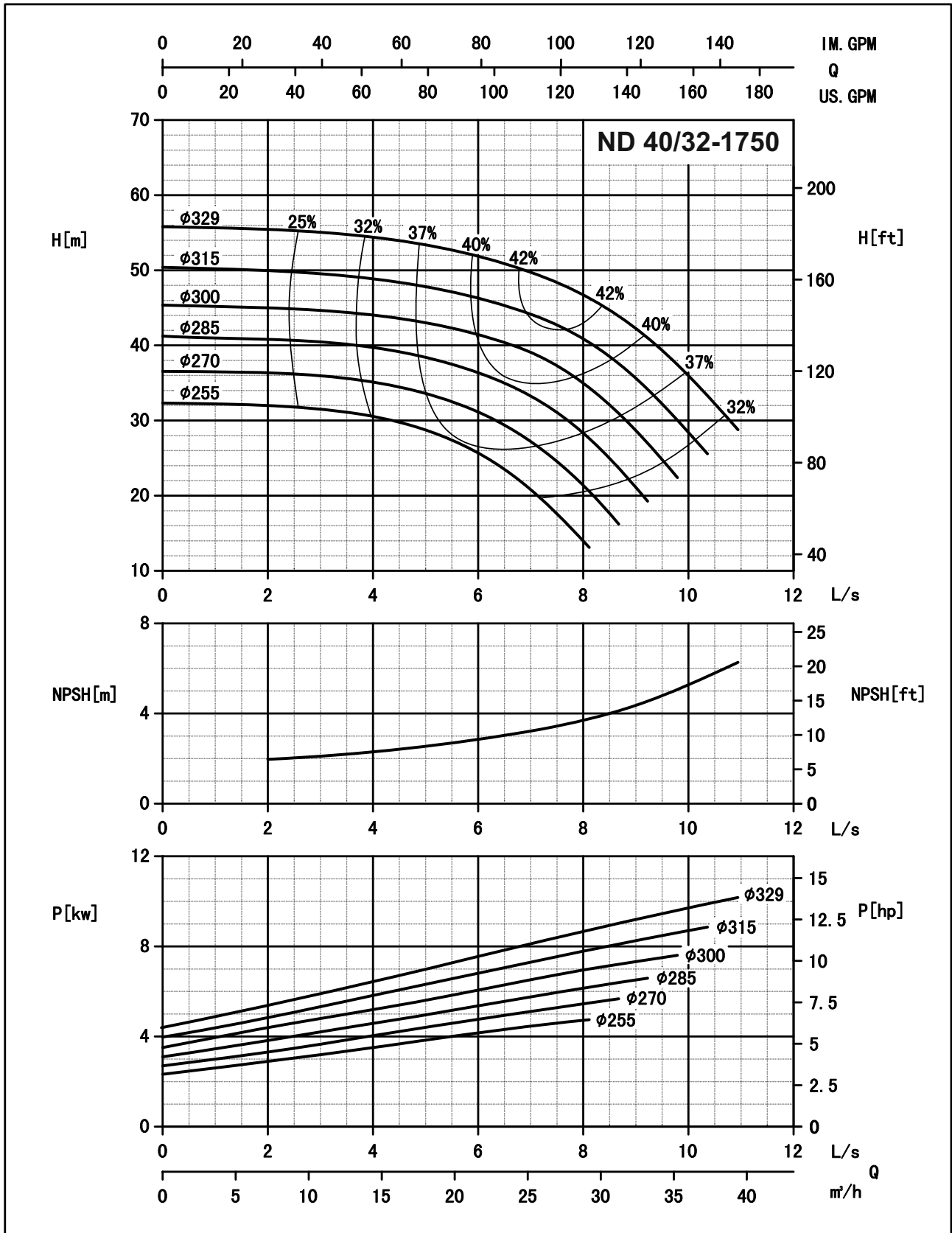
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



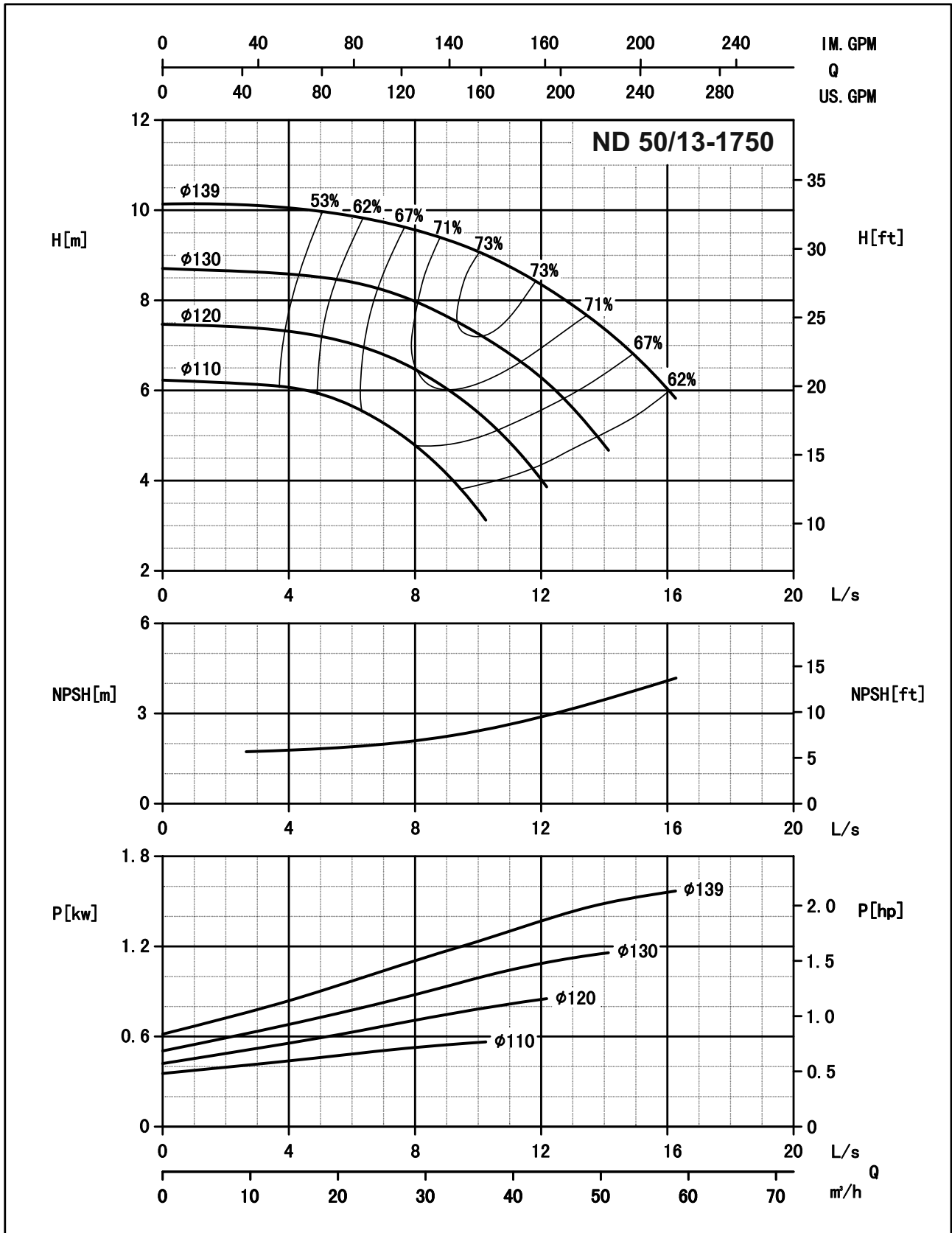
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



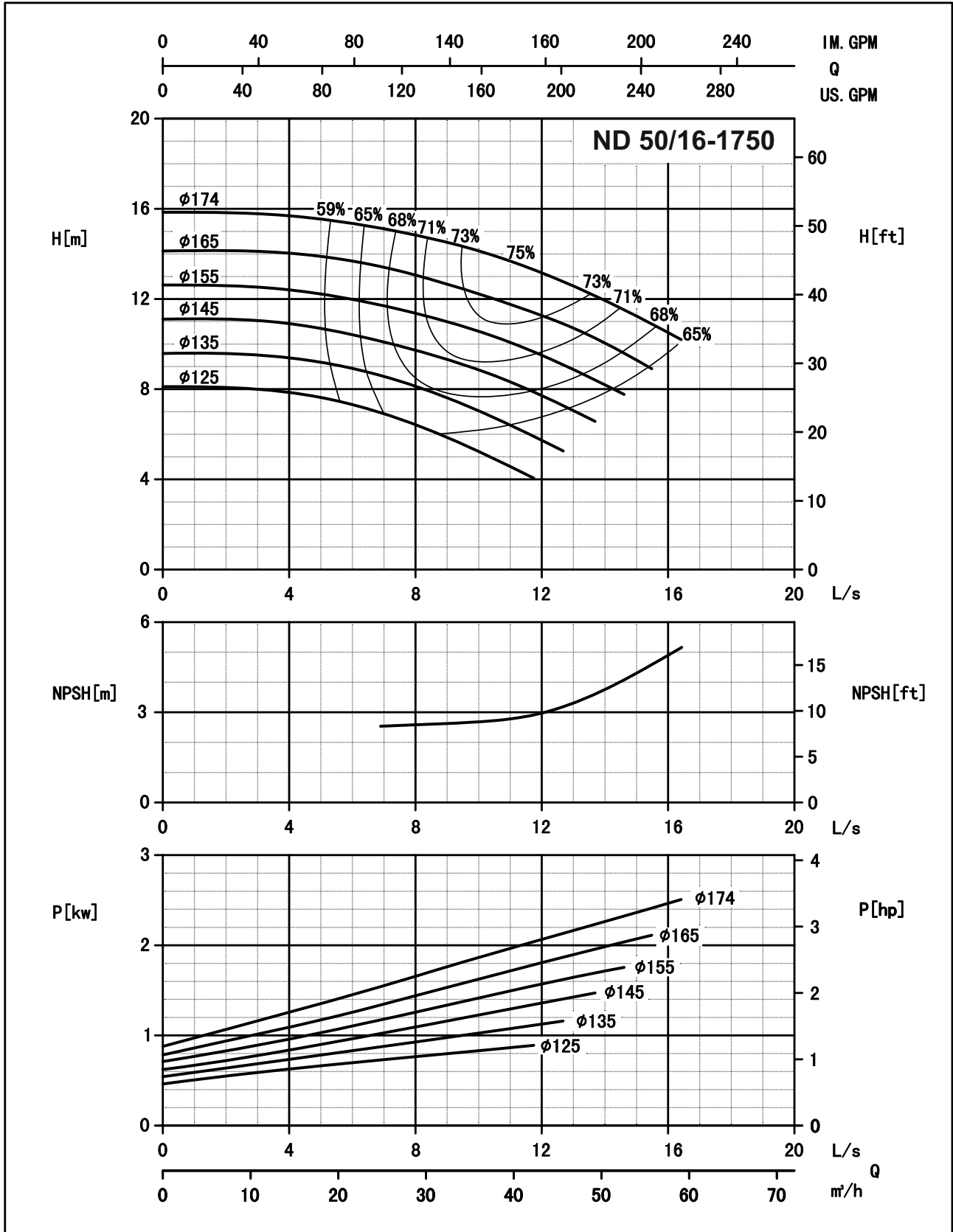
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



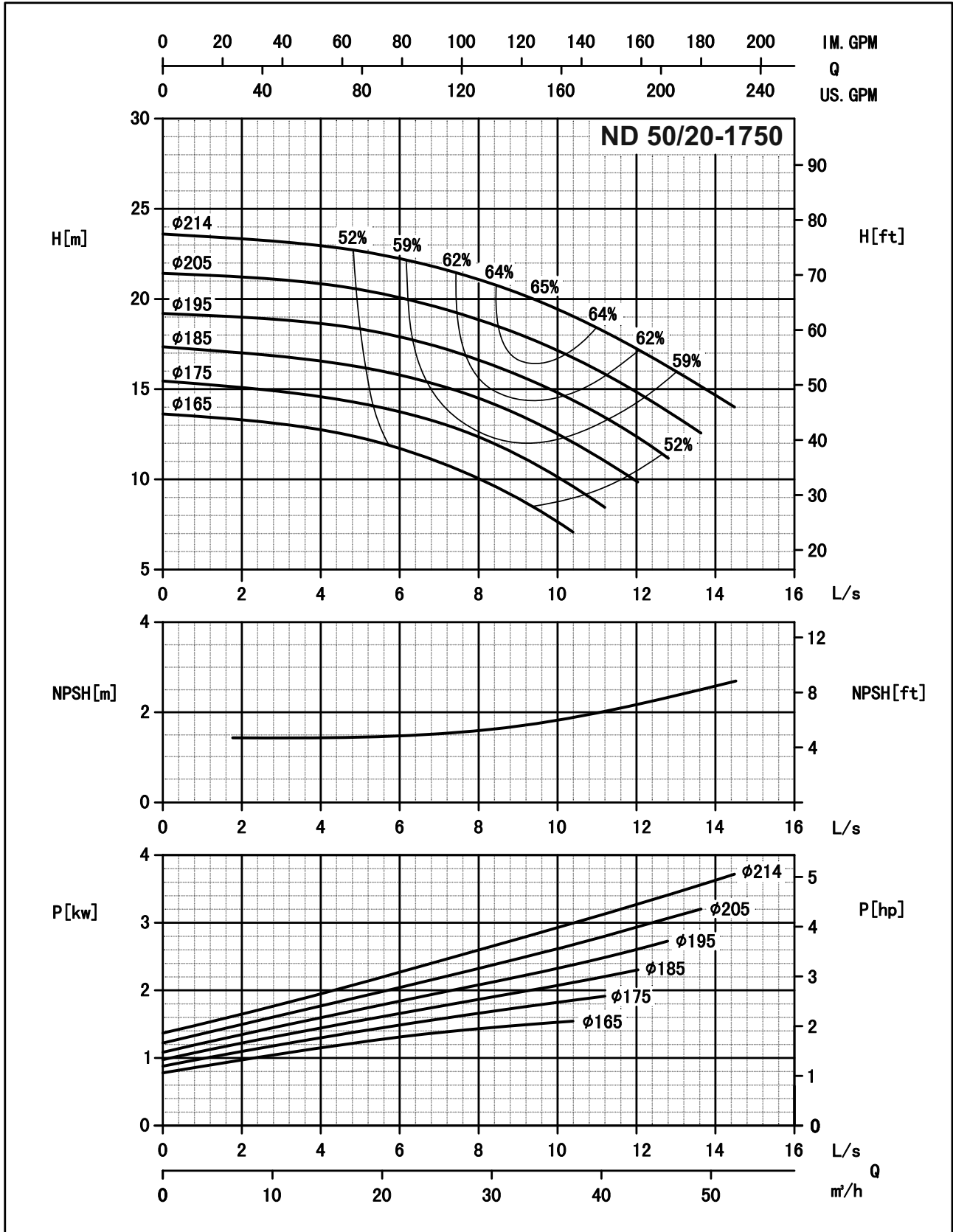
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



# Performance Curves

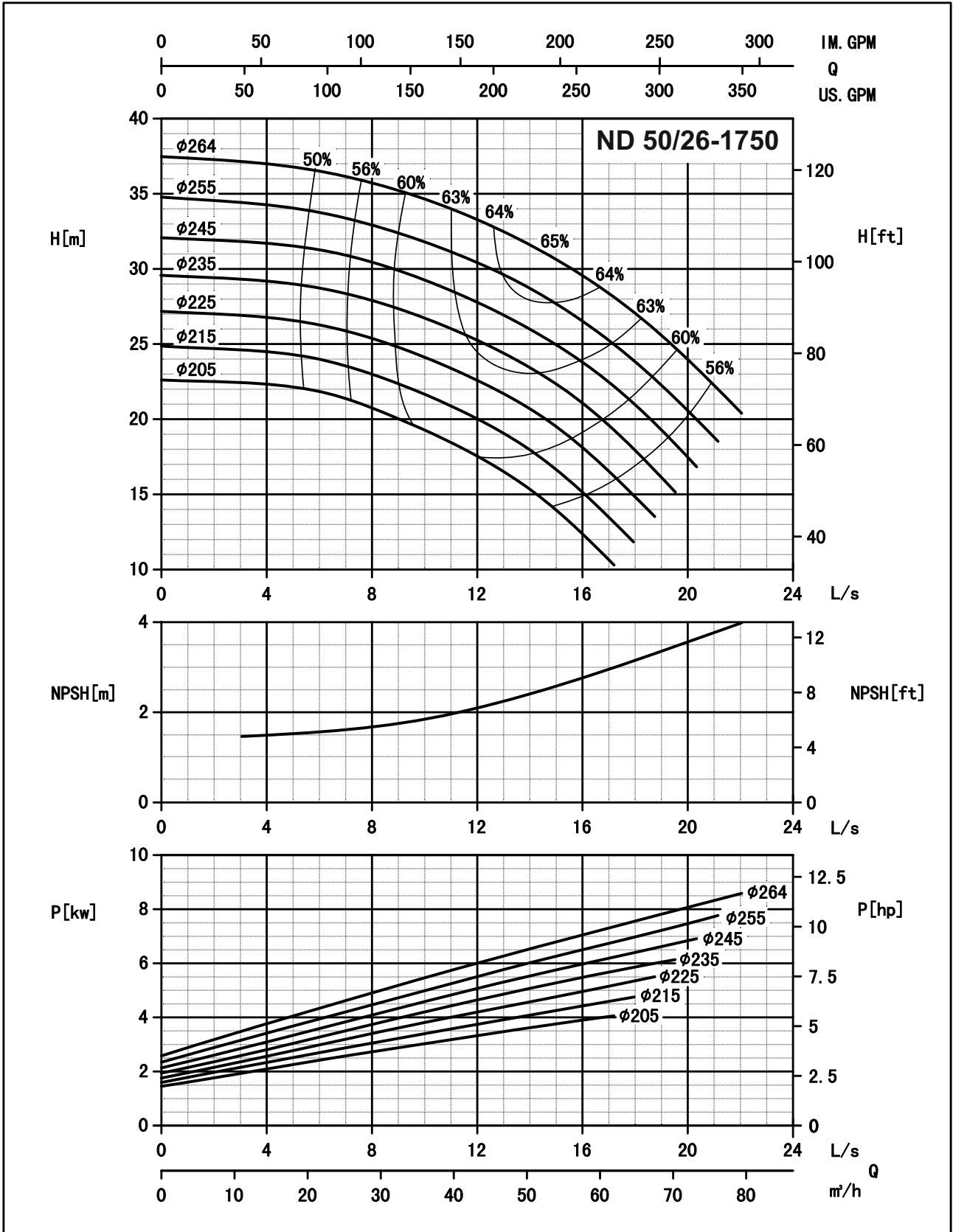
The performance curves applies to ISO9906 grade 2 for clean cold water only.





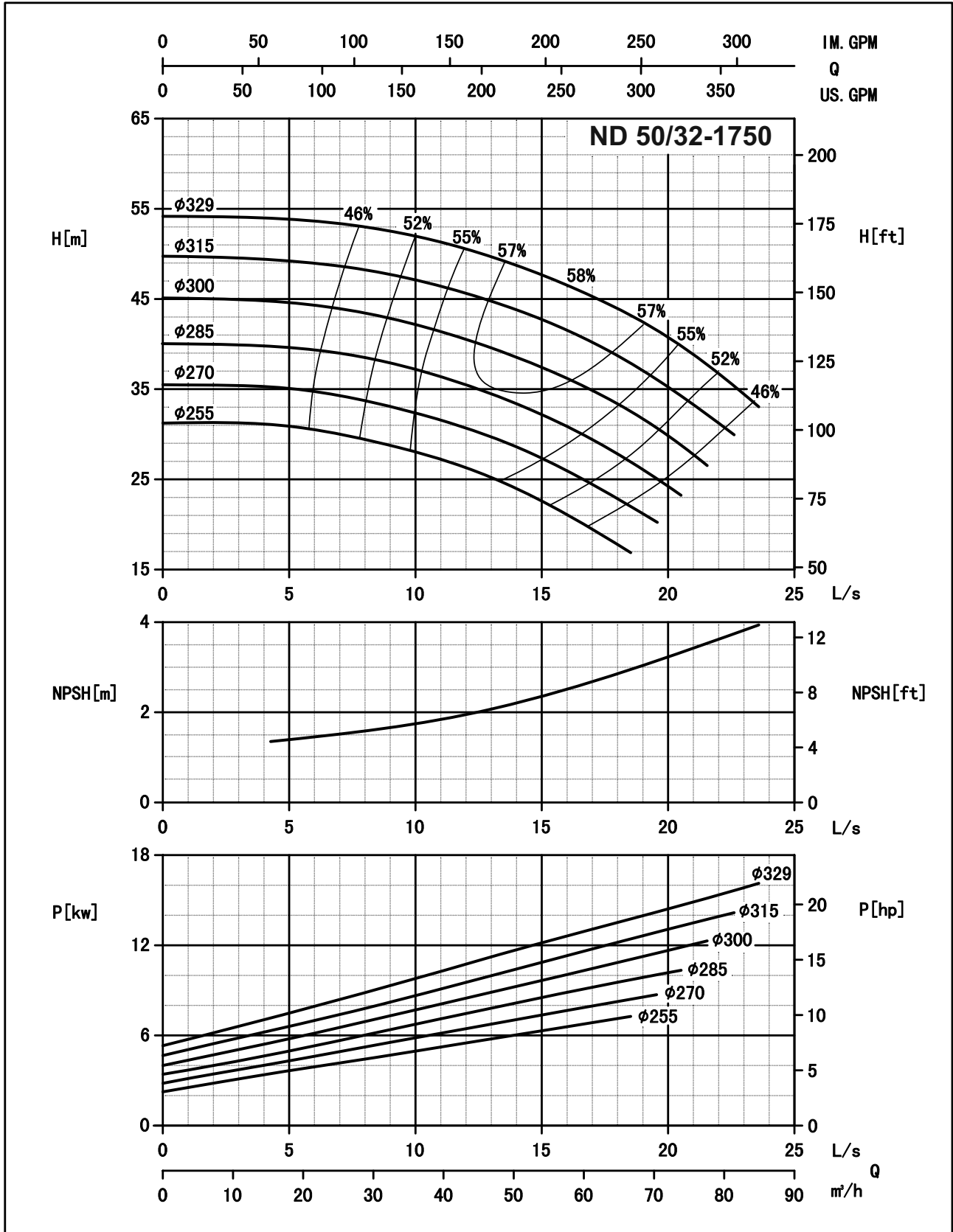
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



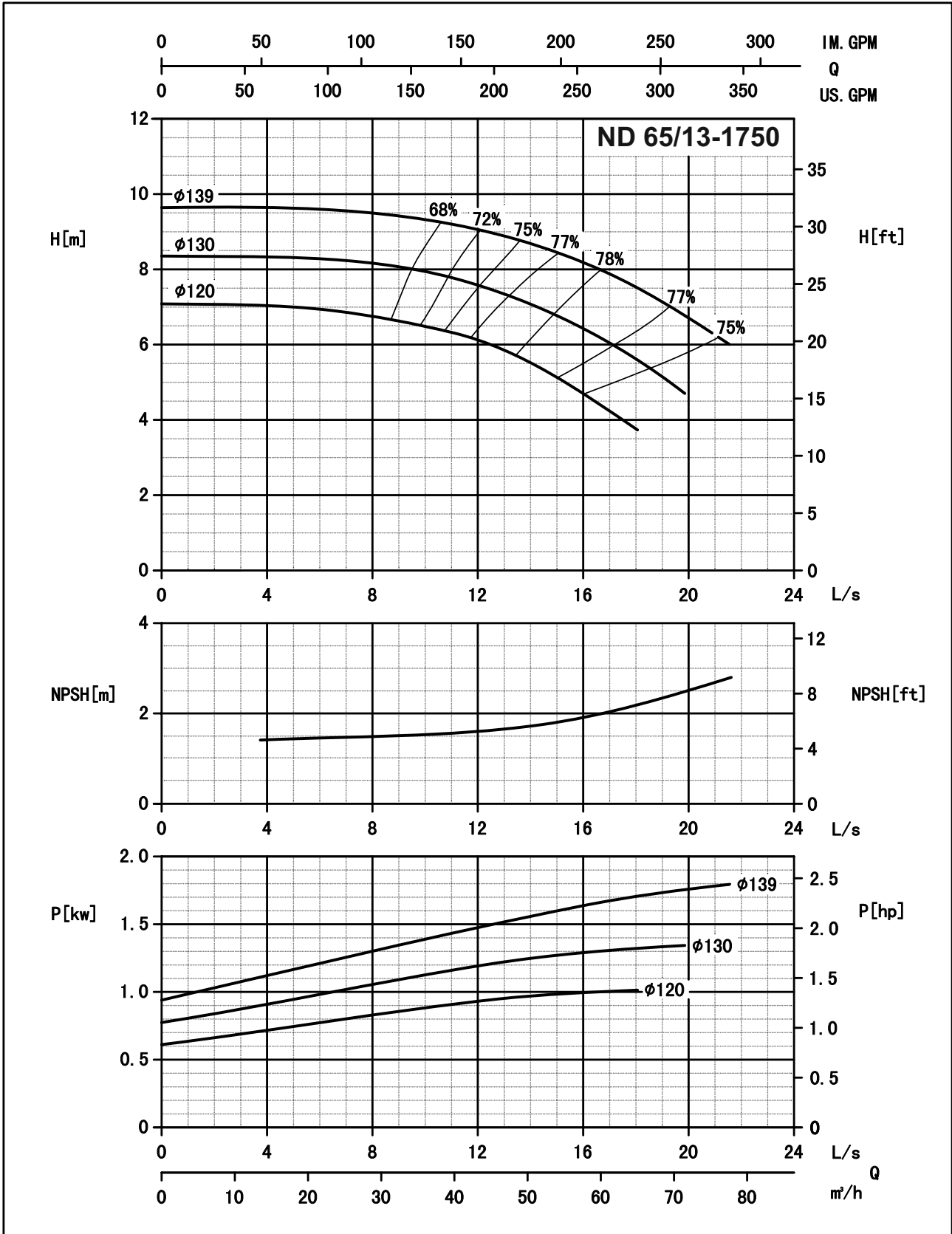
# Performance Curves

The performance curves applies to ISO9906 grade 2 for clean cold water only.



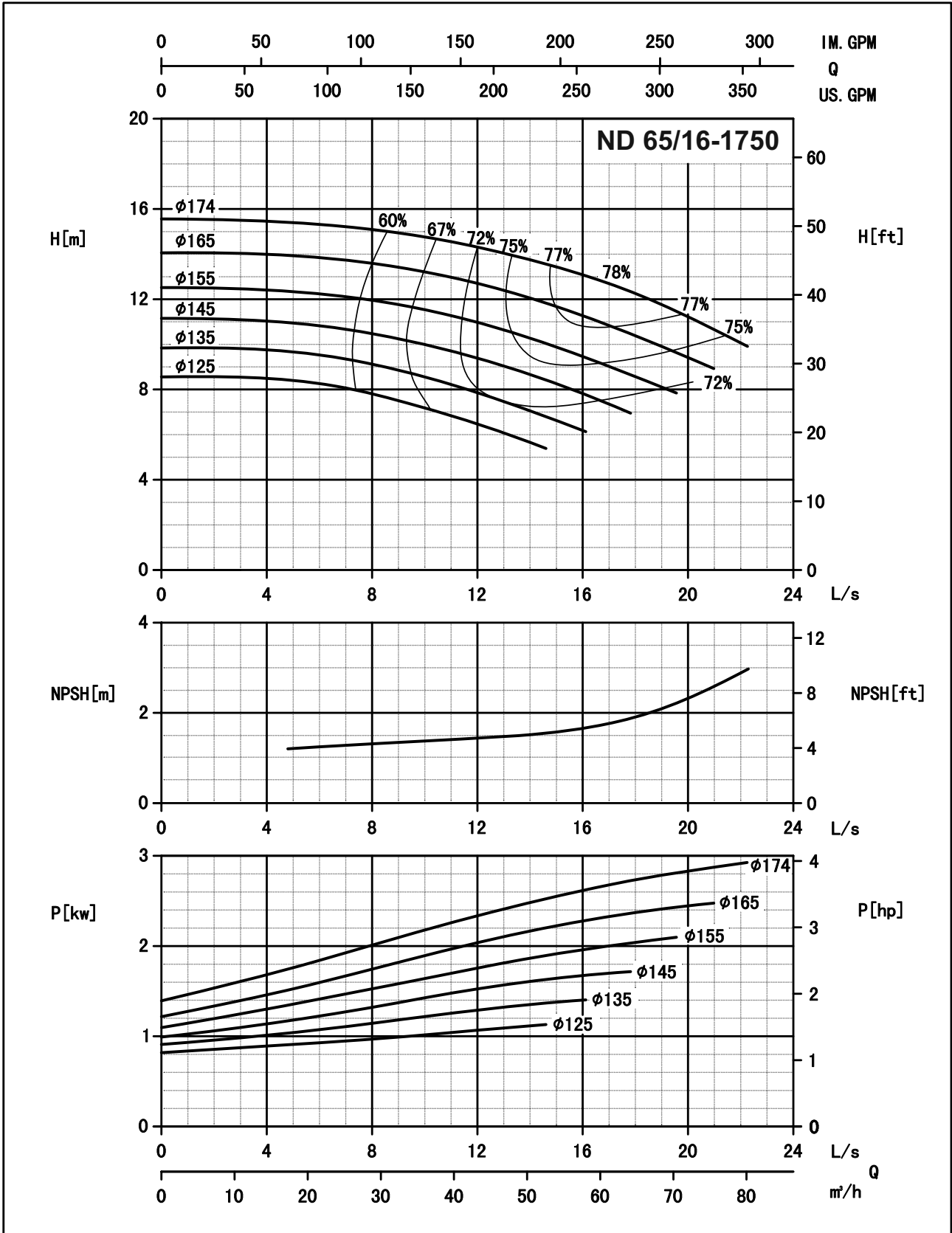
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



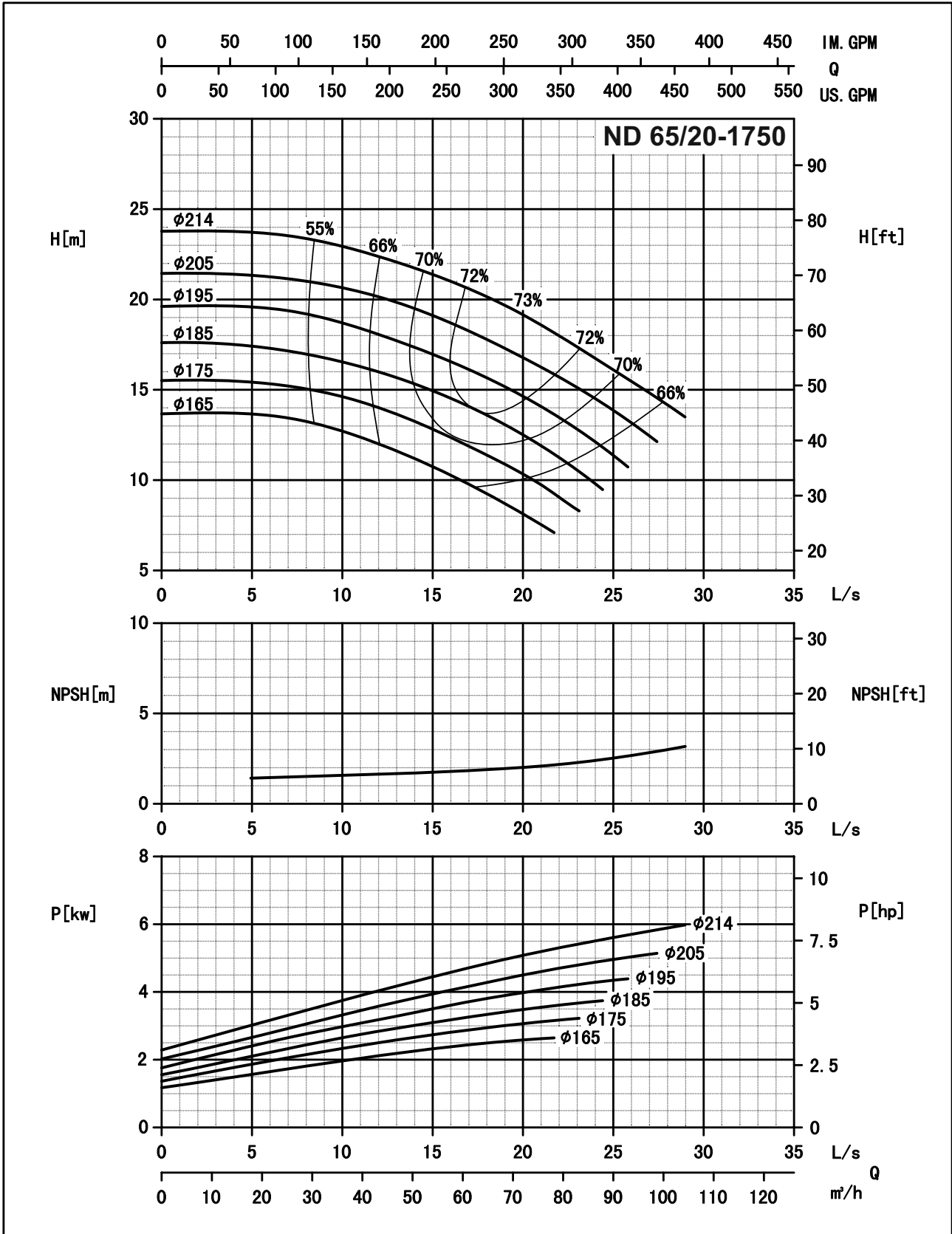
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



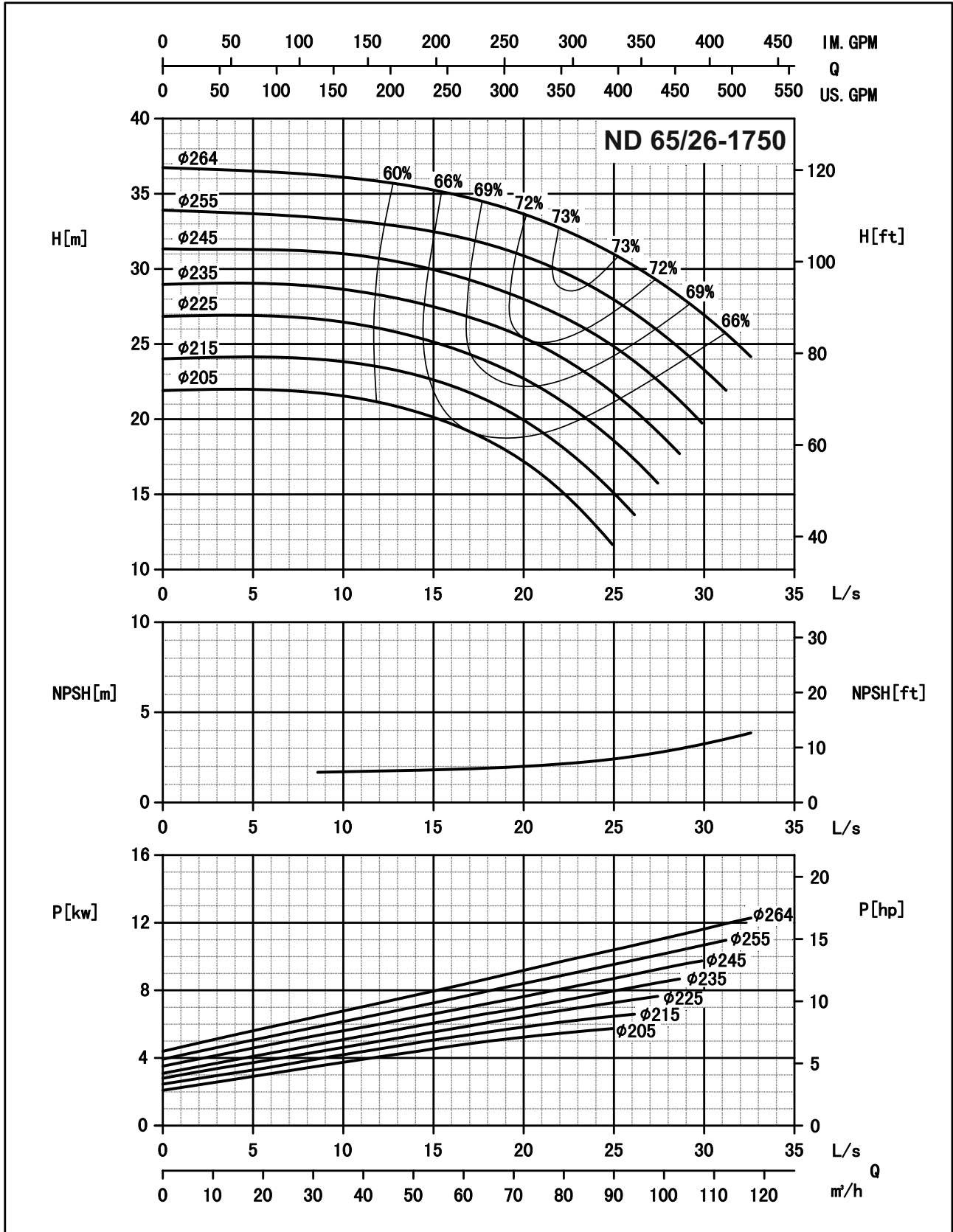
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



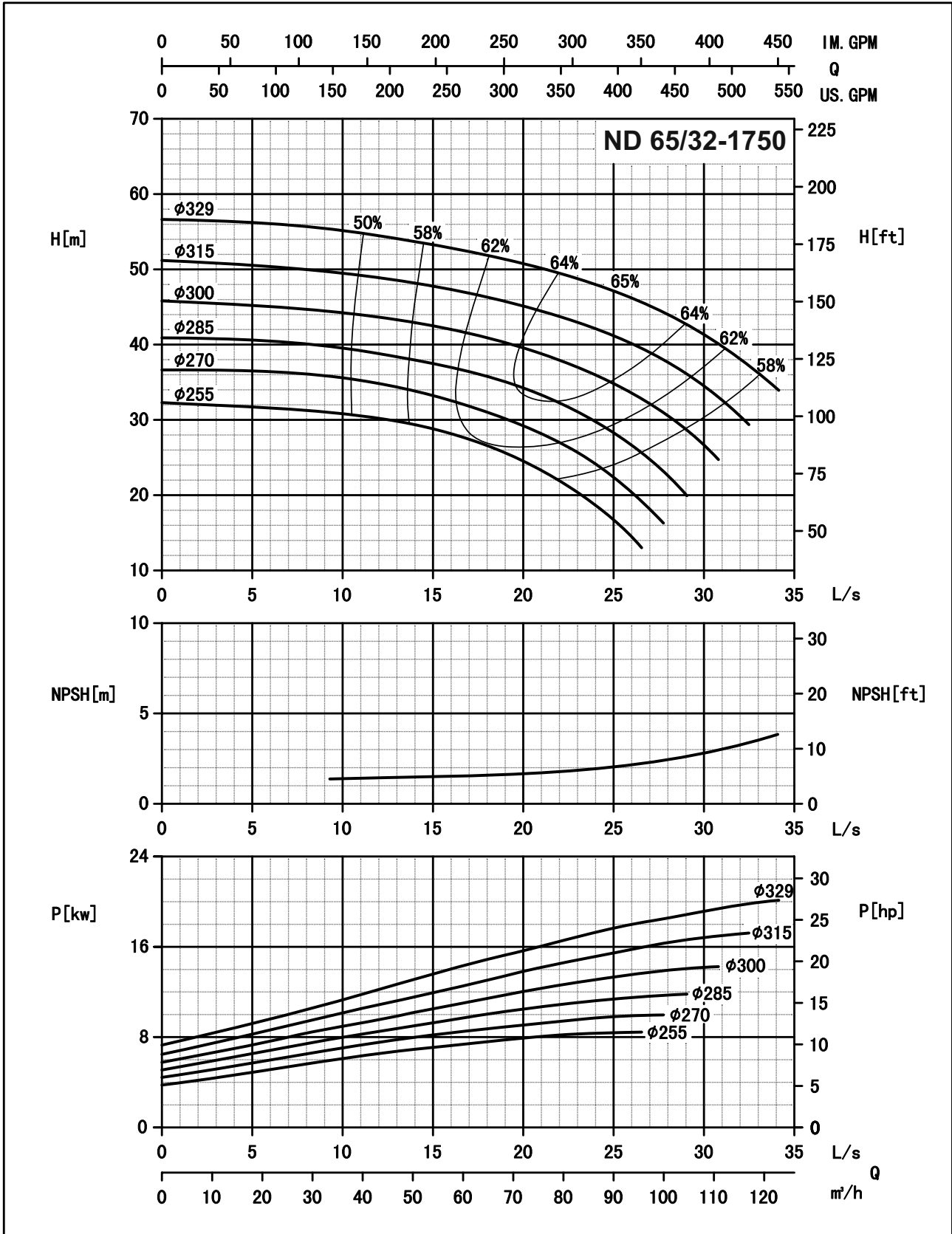
# Performance Curves

The performance curves applies to ISO9906 grade 2 for clean cold water only.



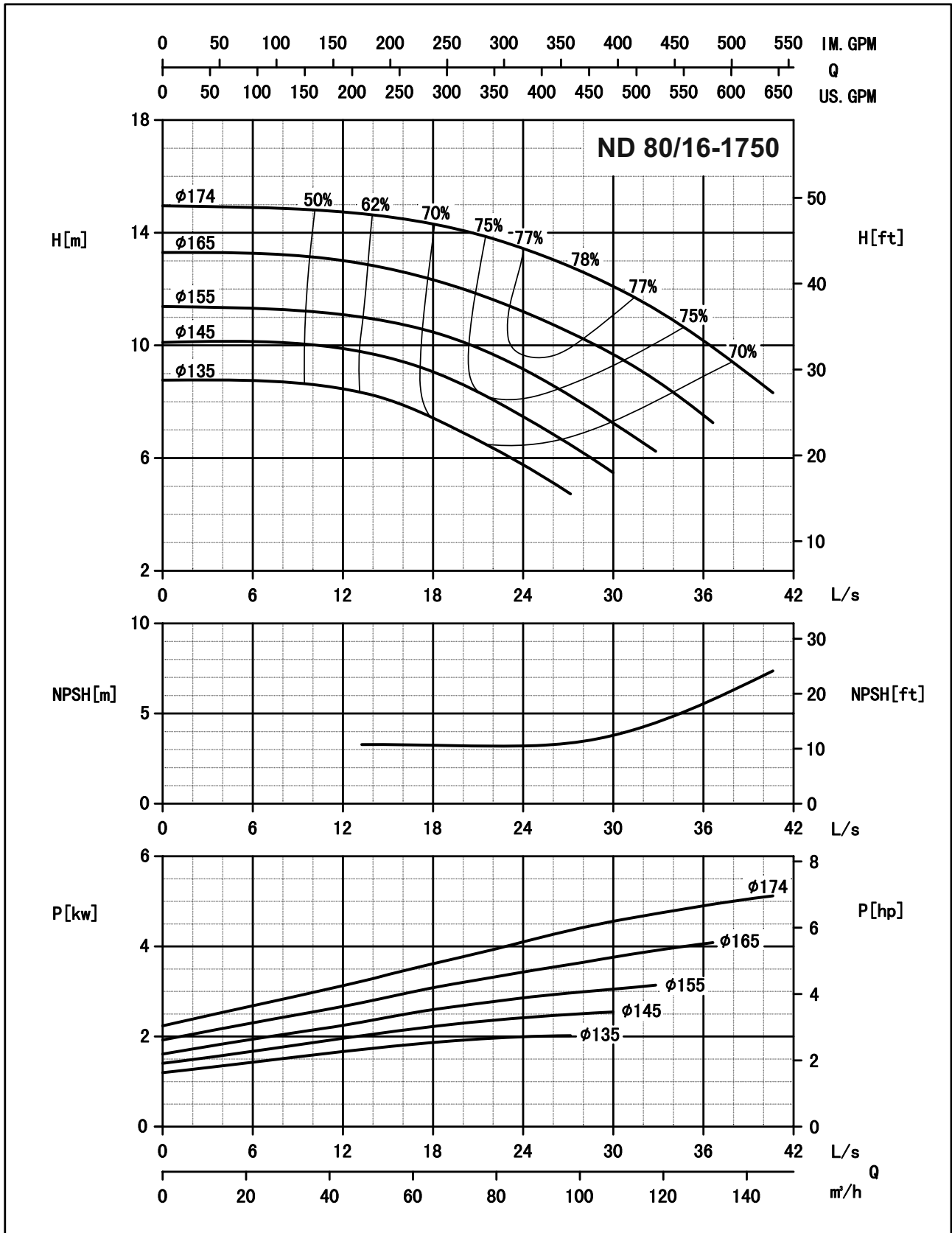
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



# Performance Curves

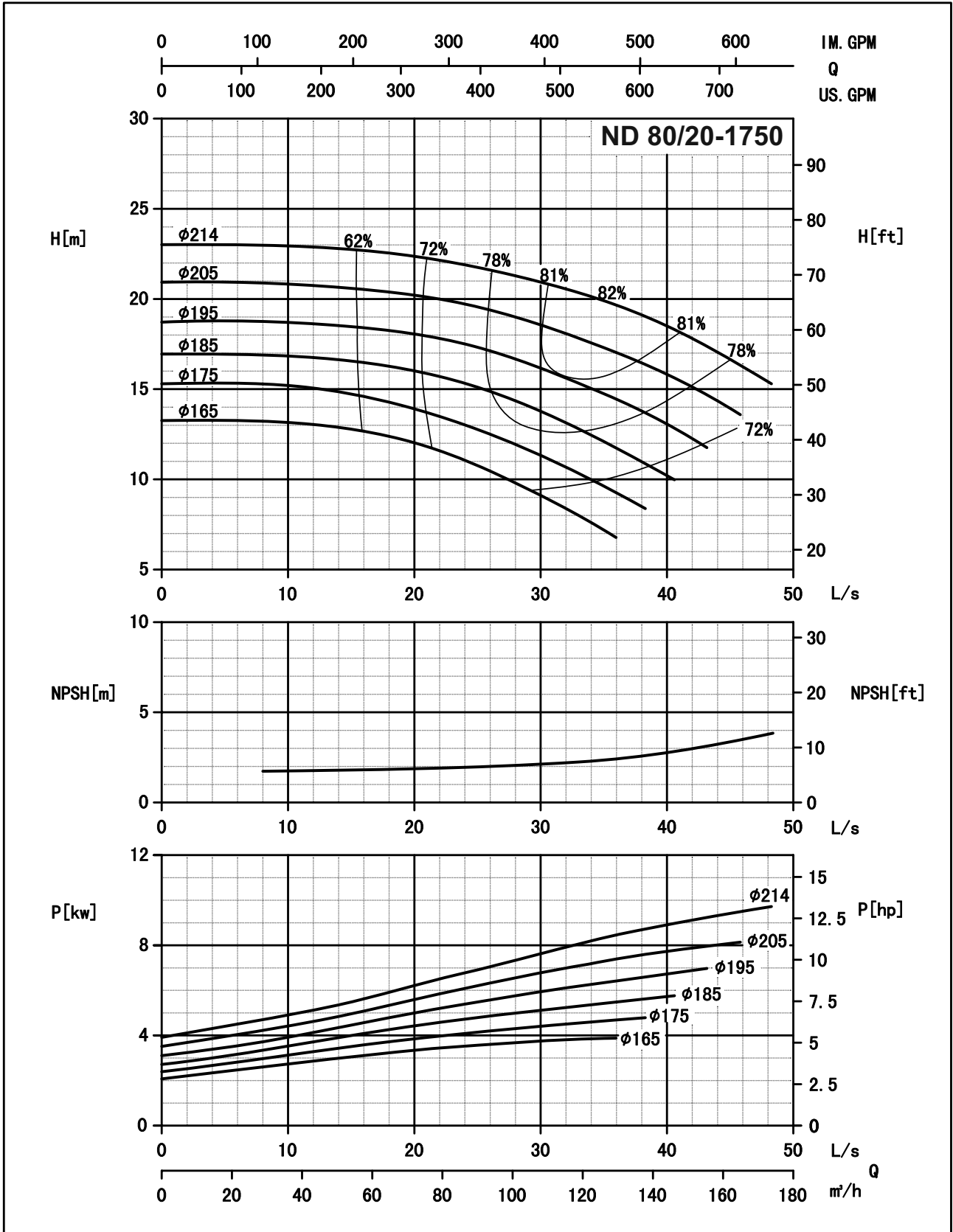
The performance curves applies to ISO9906 grade 2 for clean cold water only.





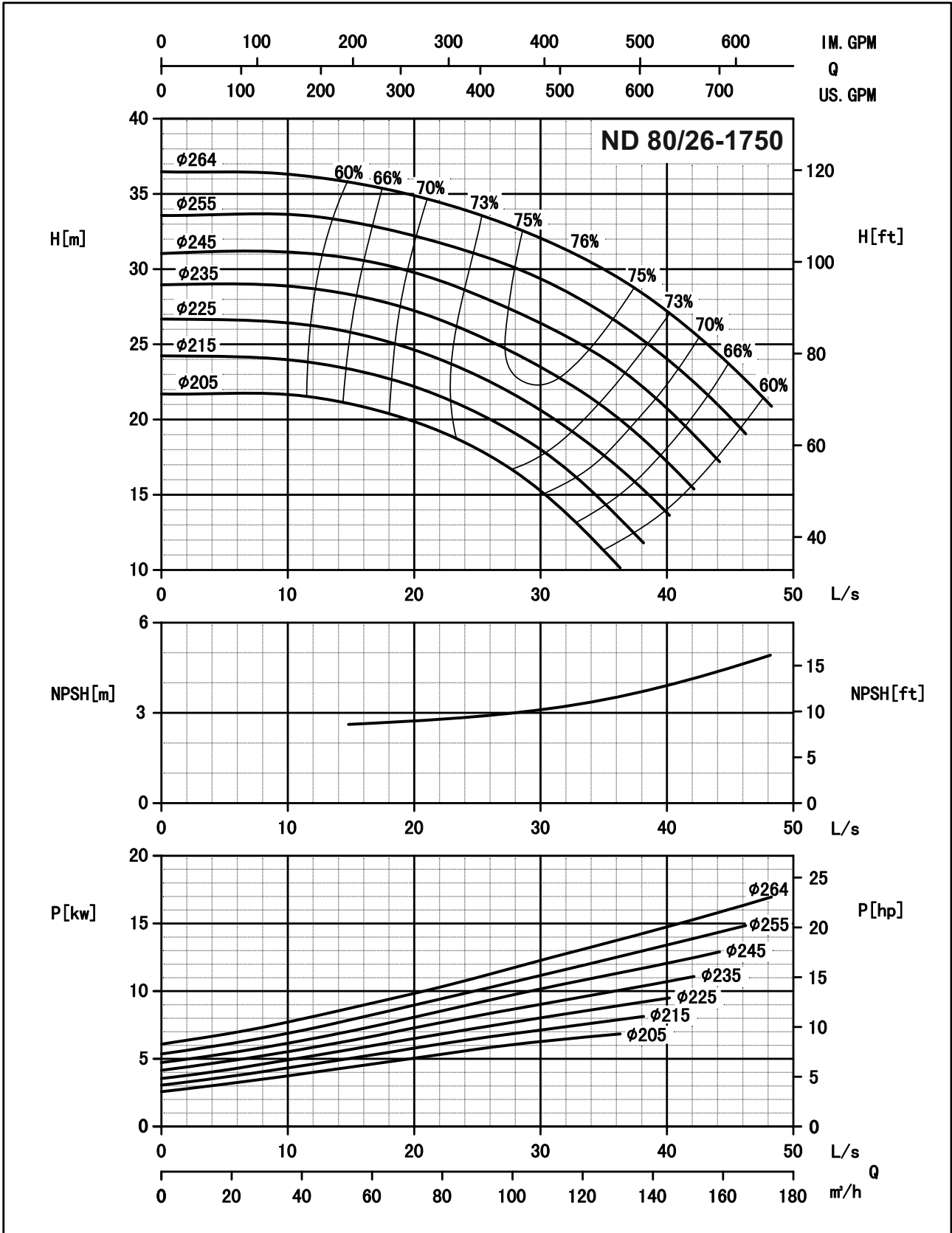
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



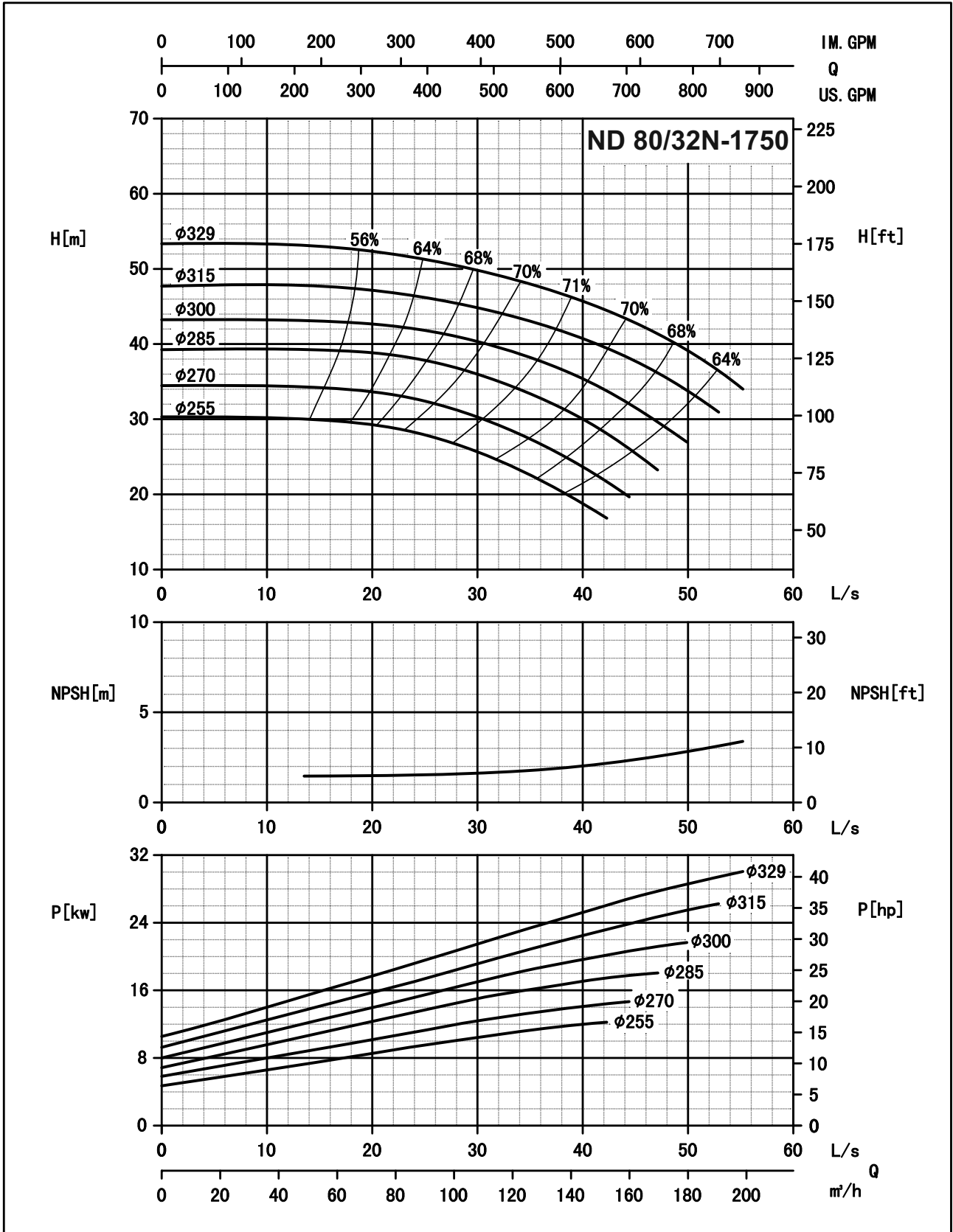
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



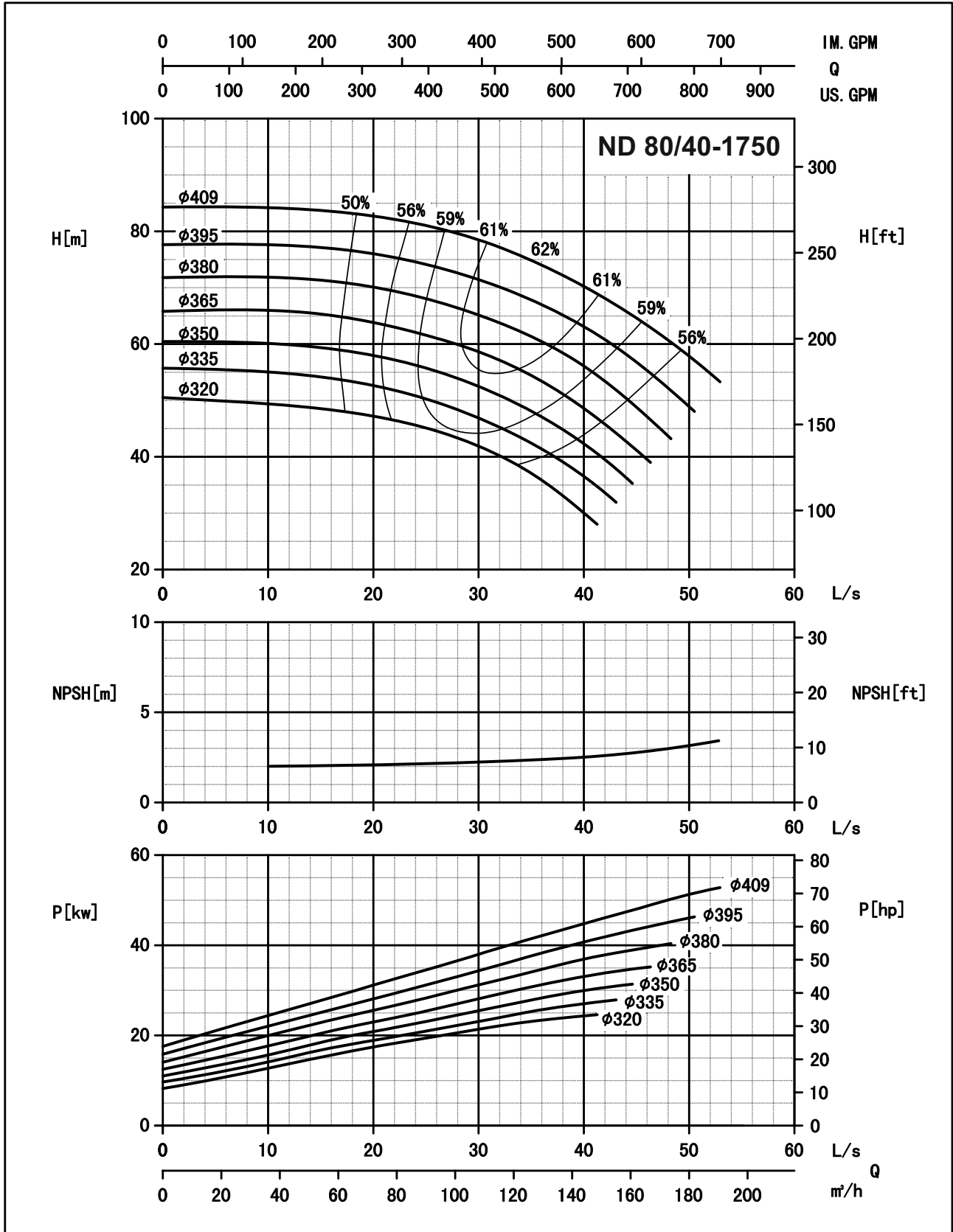
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



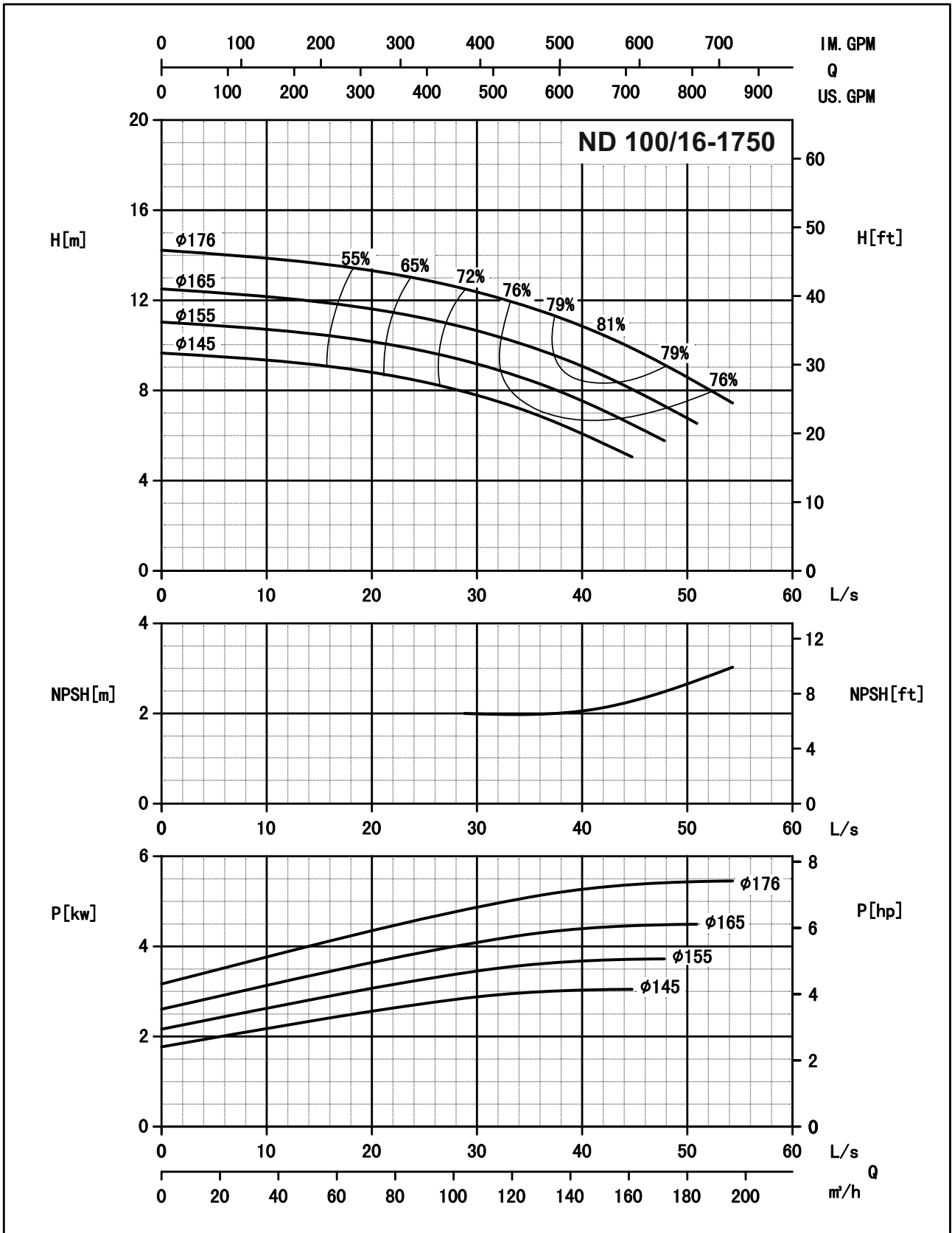
# Performance Curves

The performance curves applies to ISO9906 grade 2 for clean cold water only.



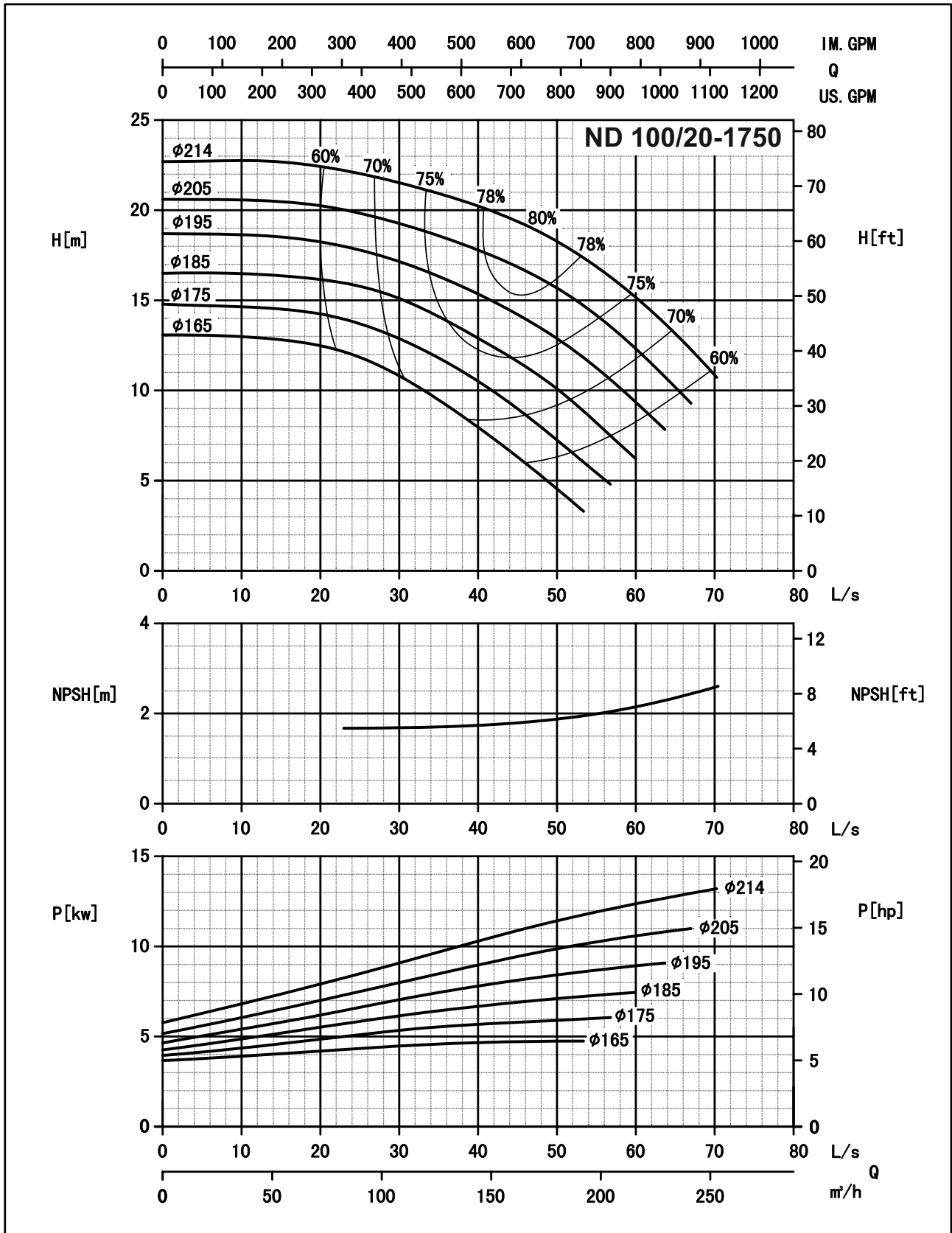
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



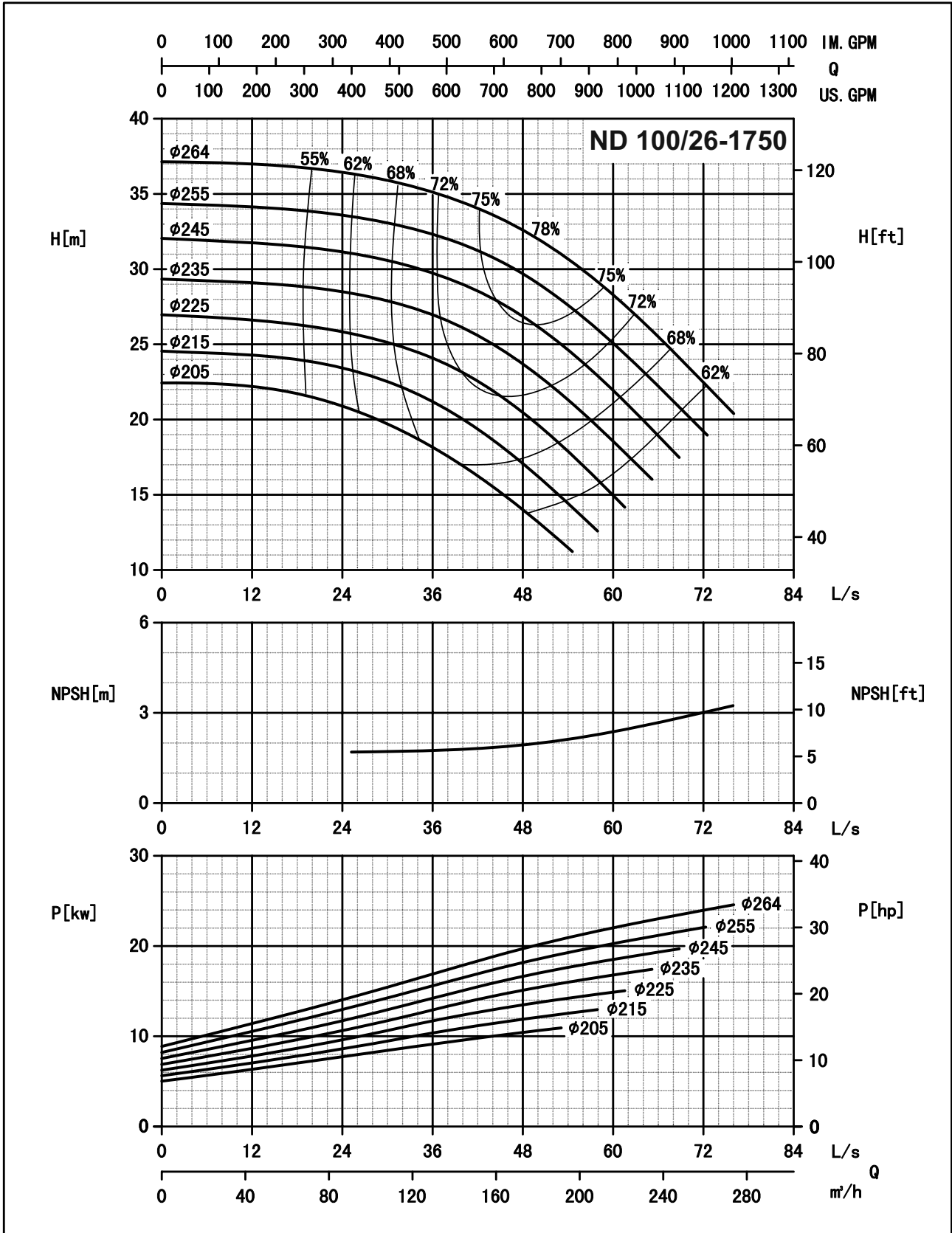
# Performance Curves

The performance curves applies to ISO9906 grade 2 for clean cold water only.



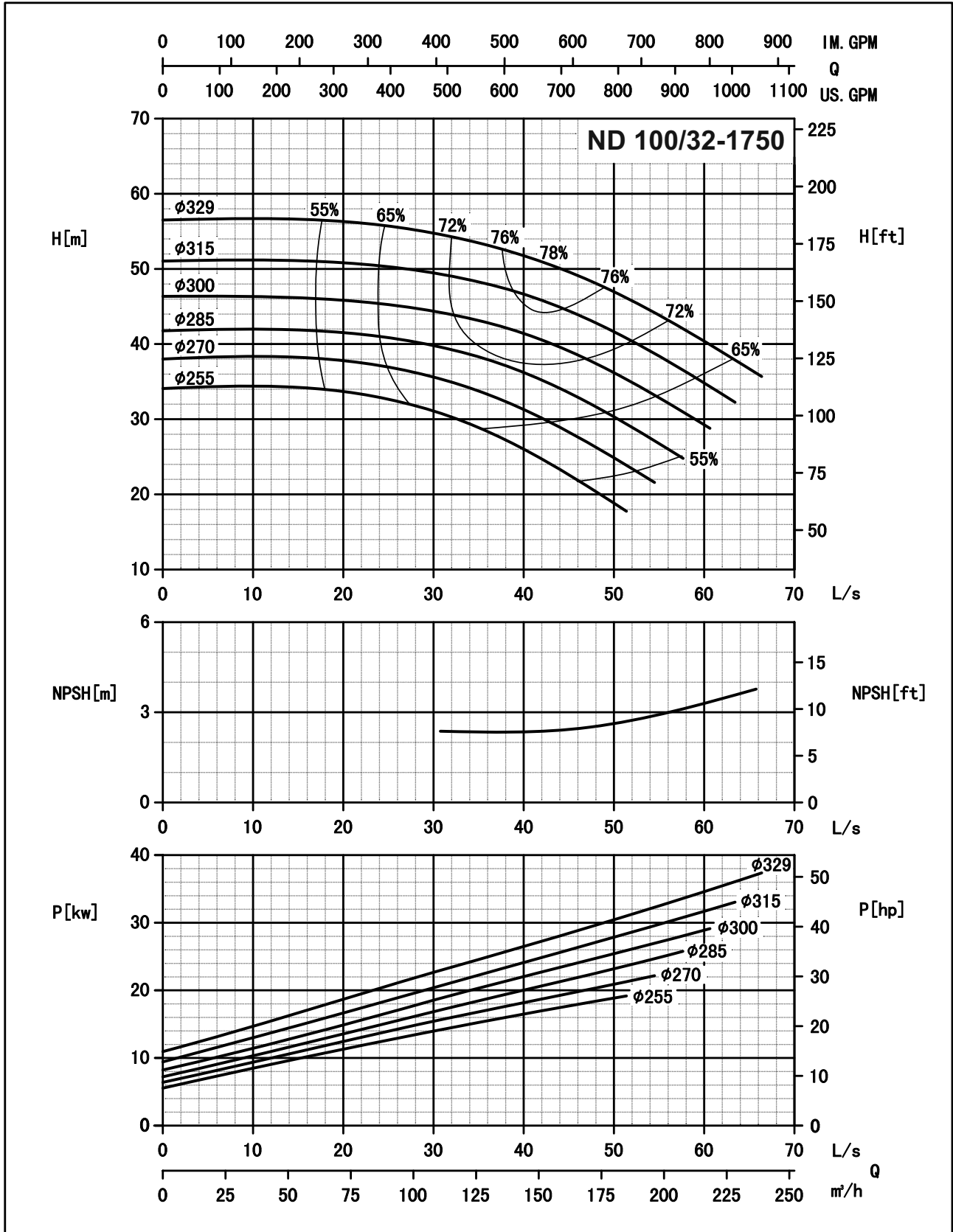
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



# Performance Curves

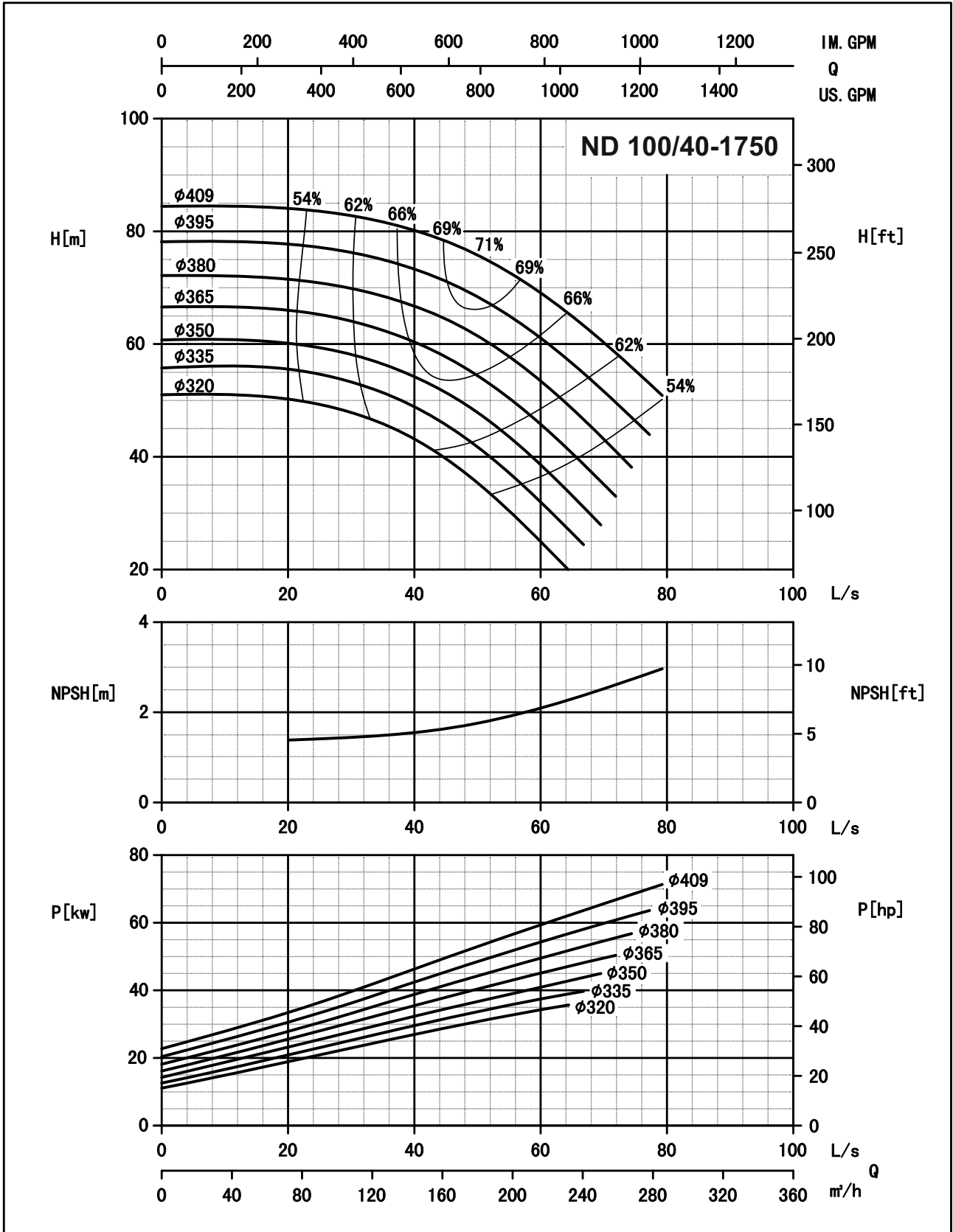
The performance curves apply to ISO9906 grade 2 for clean cold water only.





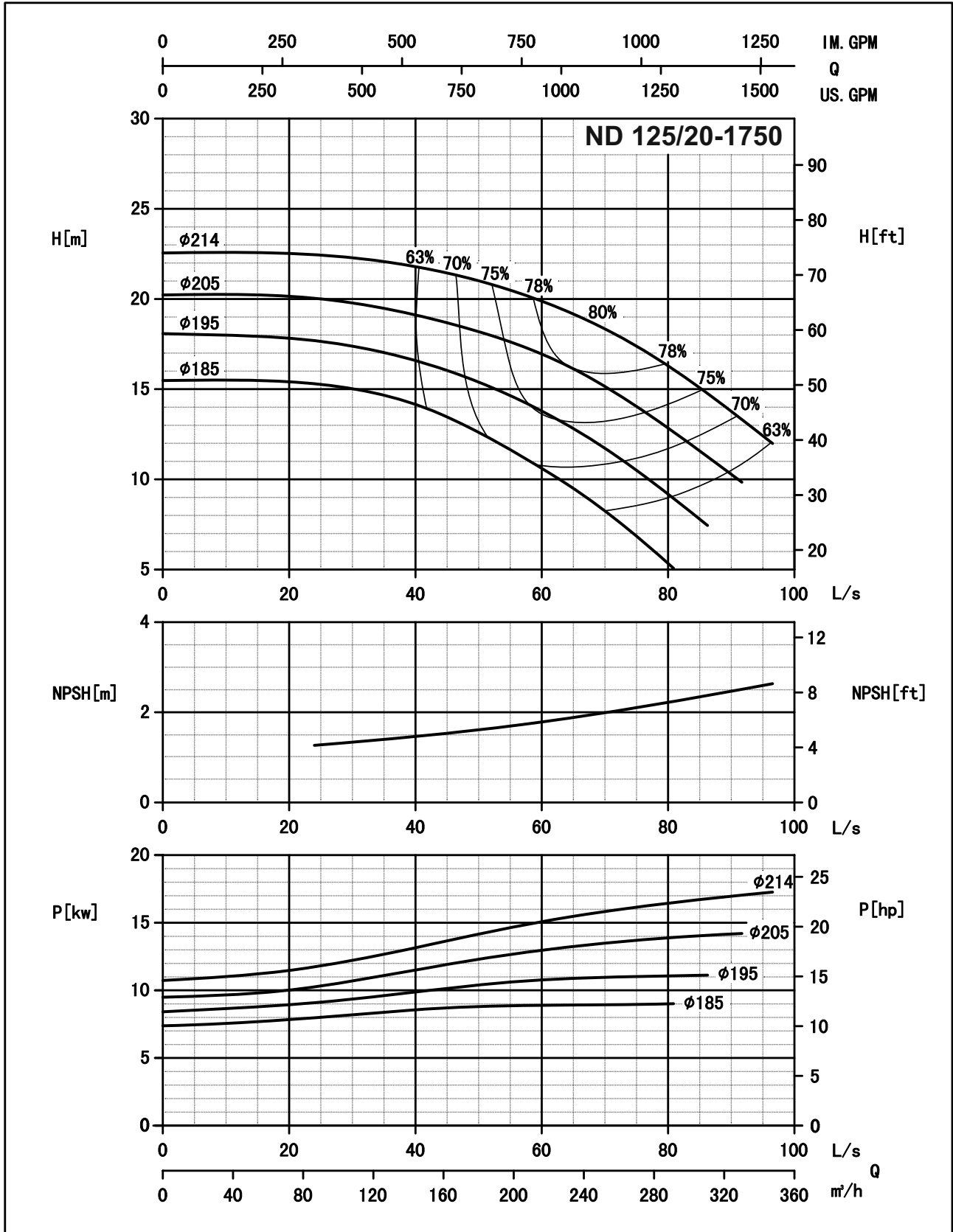
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



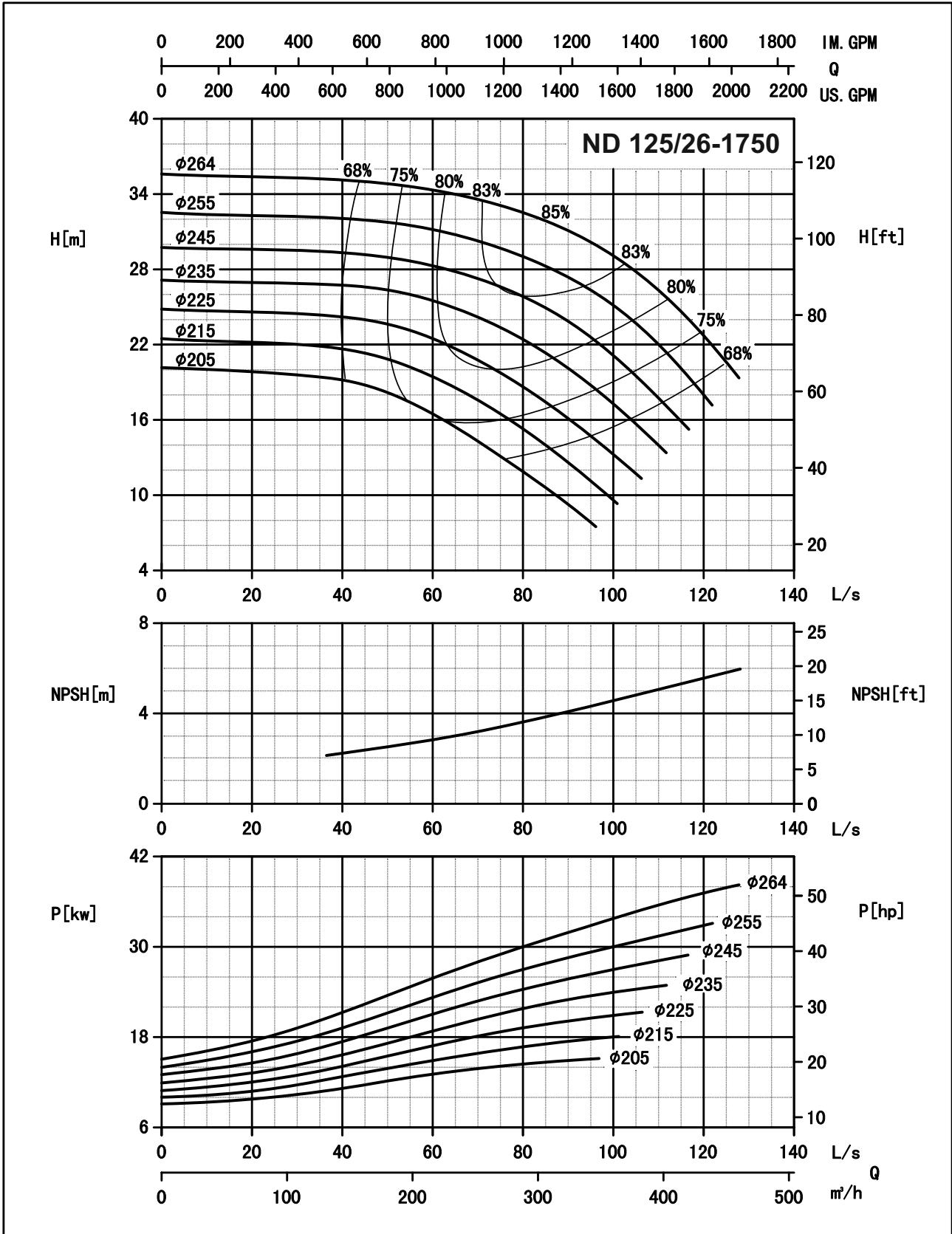
# Performance Curves

The performance curves applies to ISO9906 grade 2 for clean cold water only.



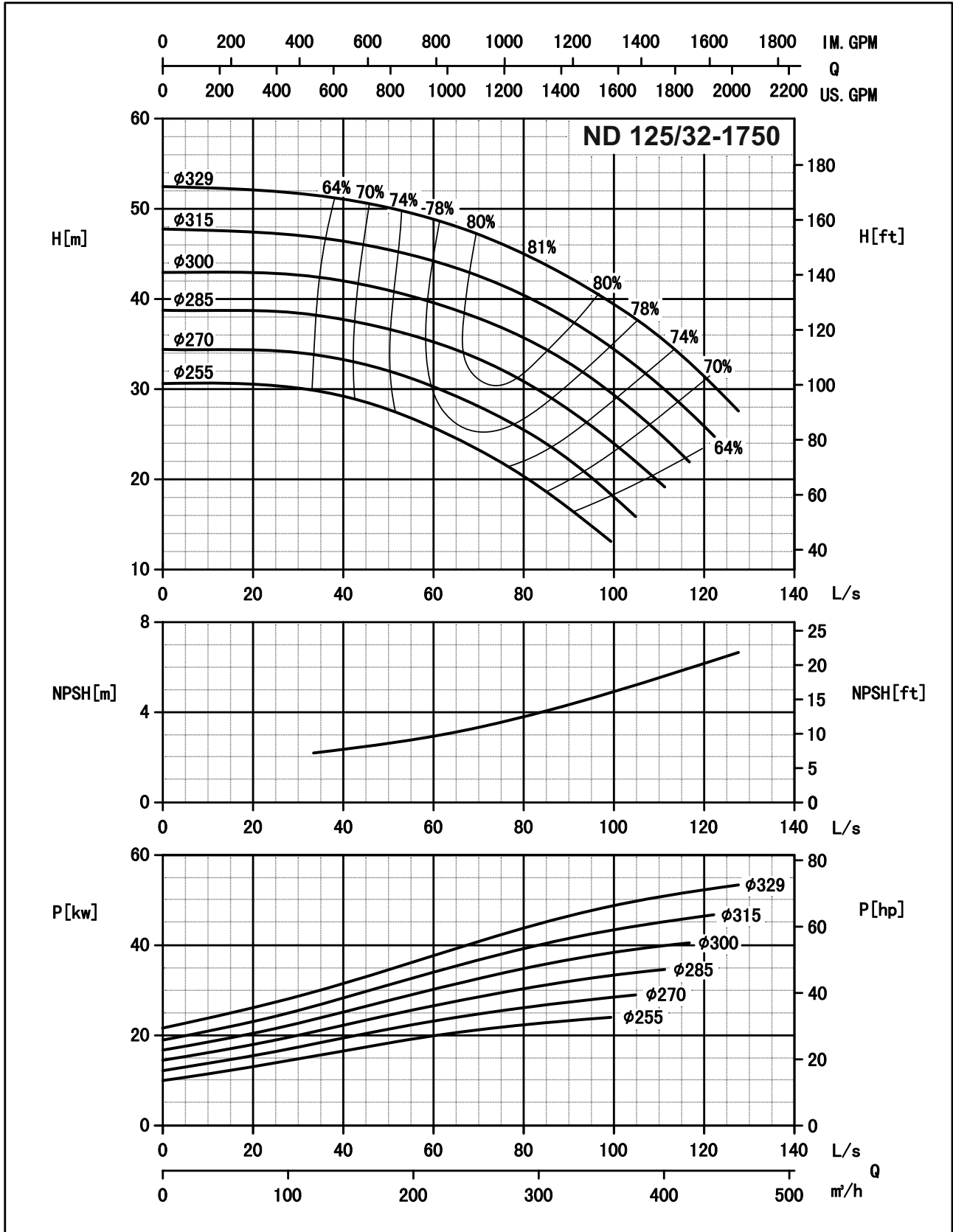
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



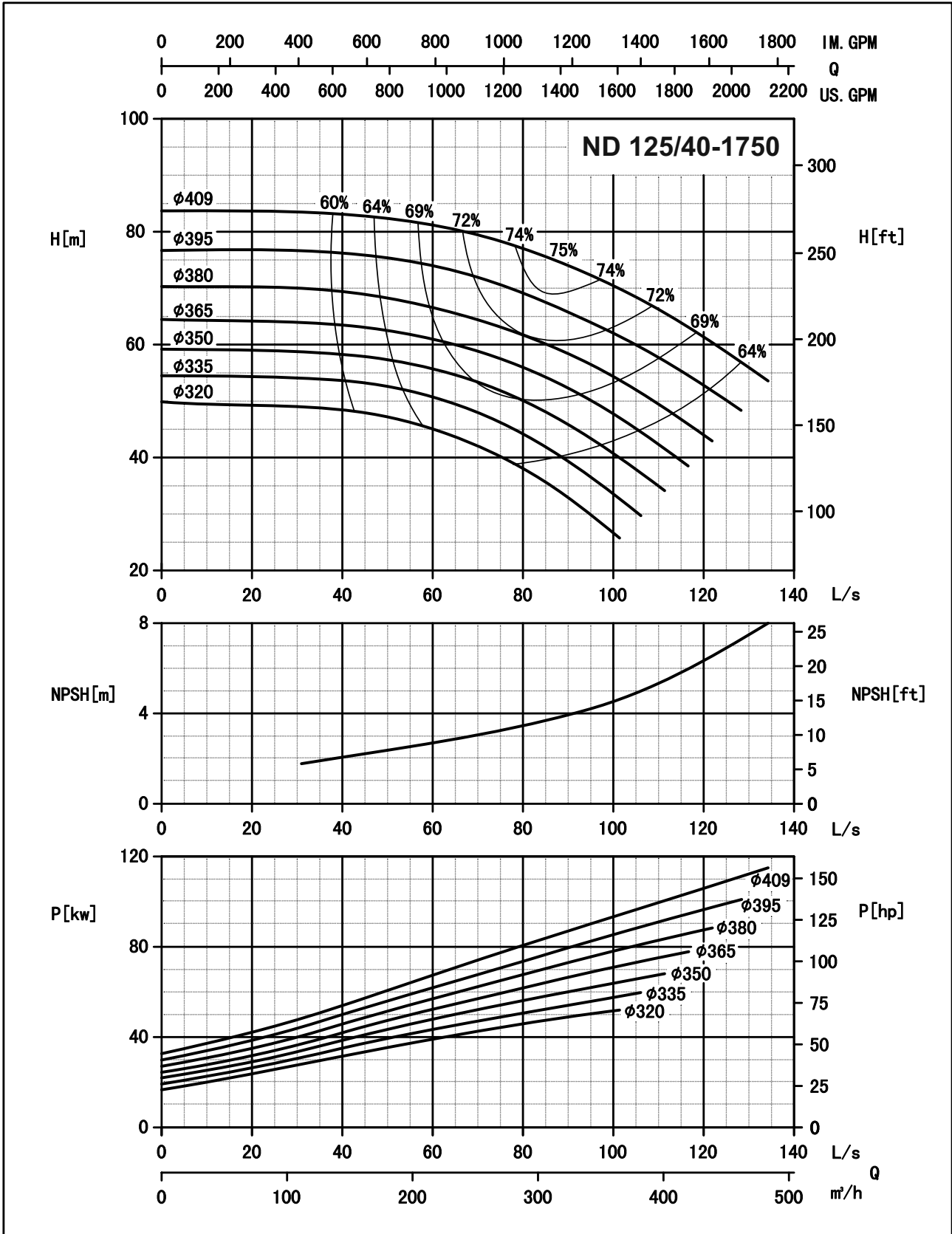
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



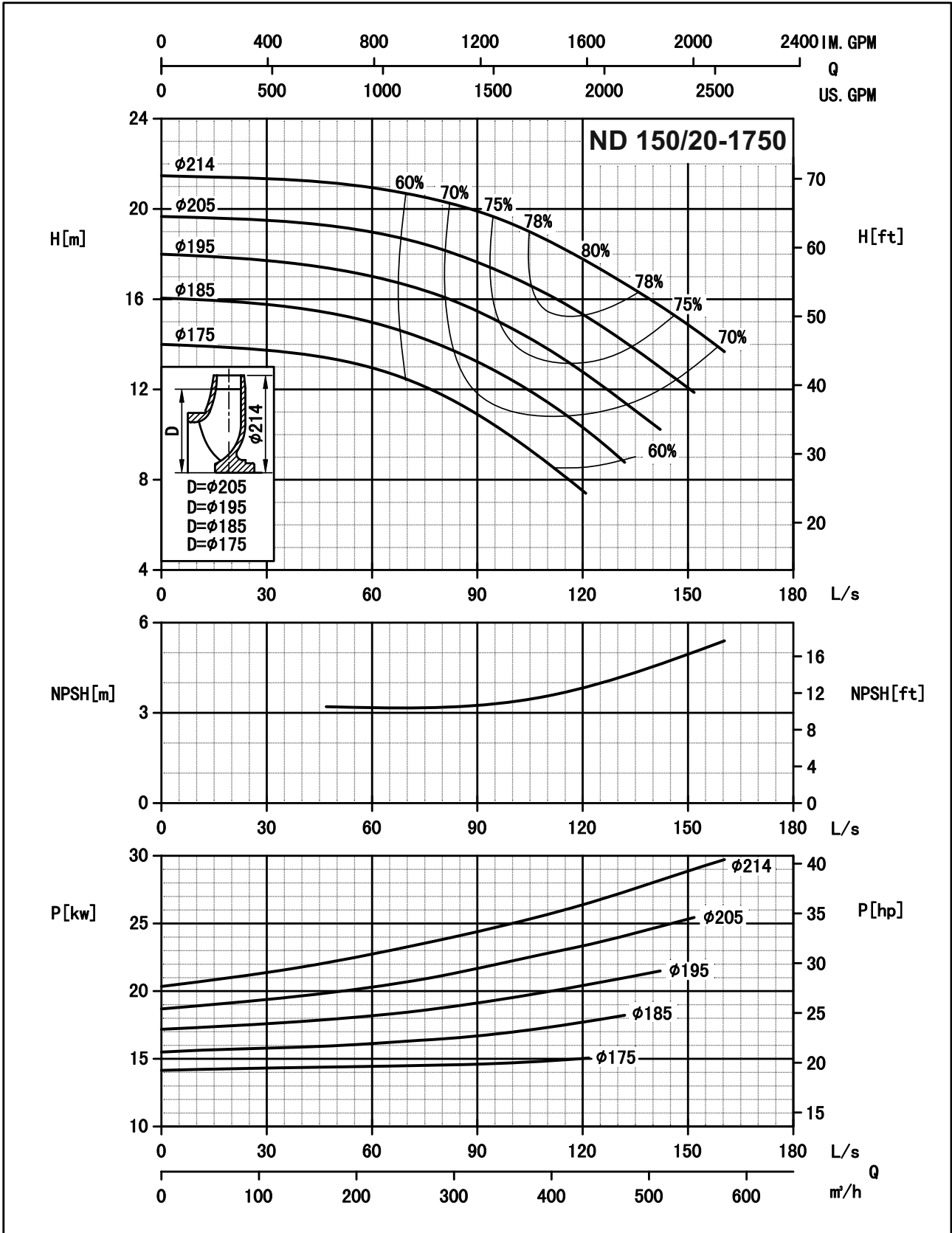
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



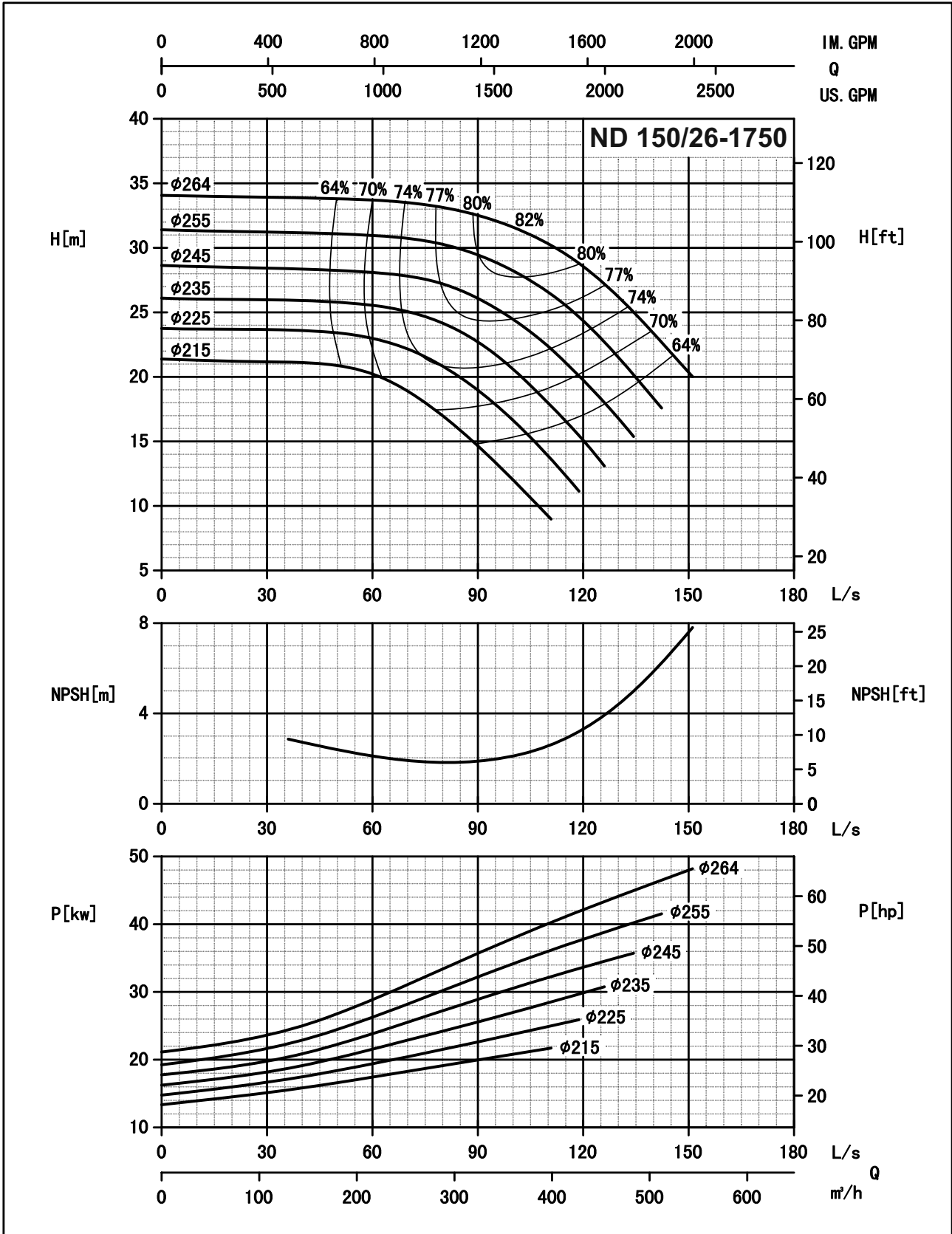
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



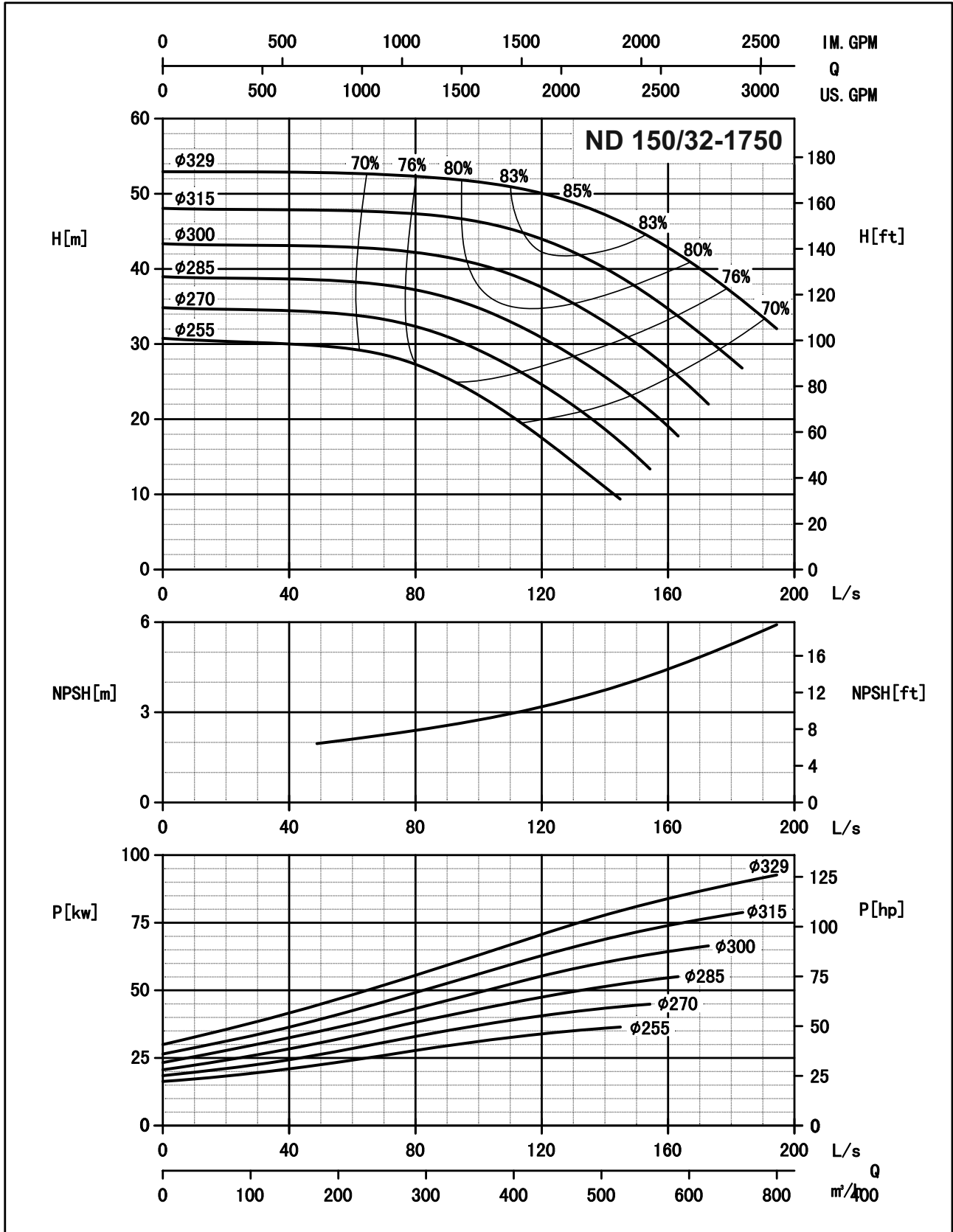
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



# Performance Curves

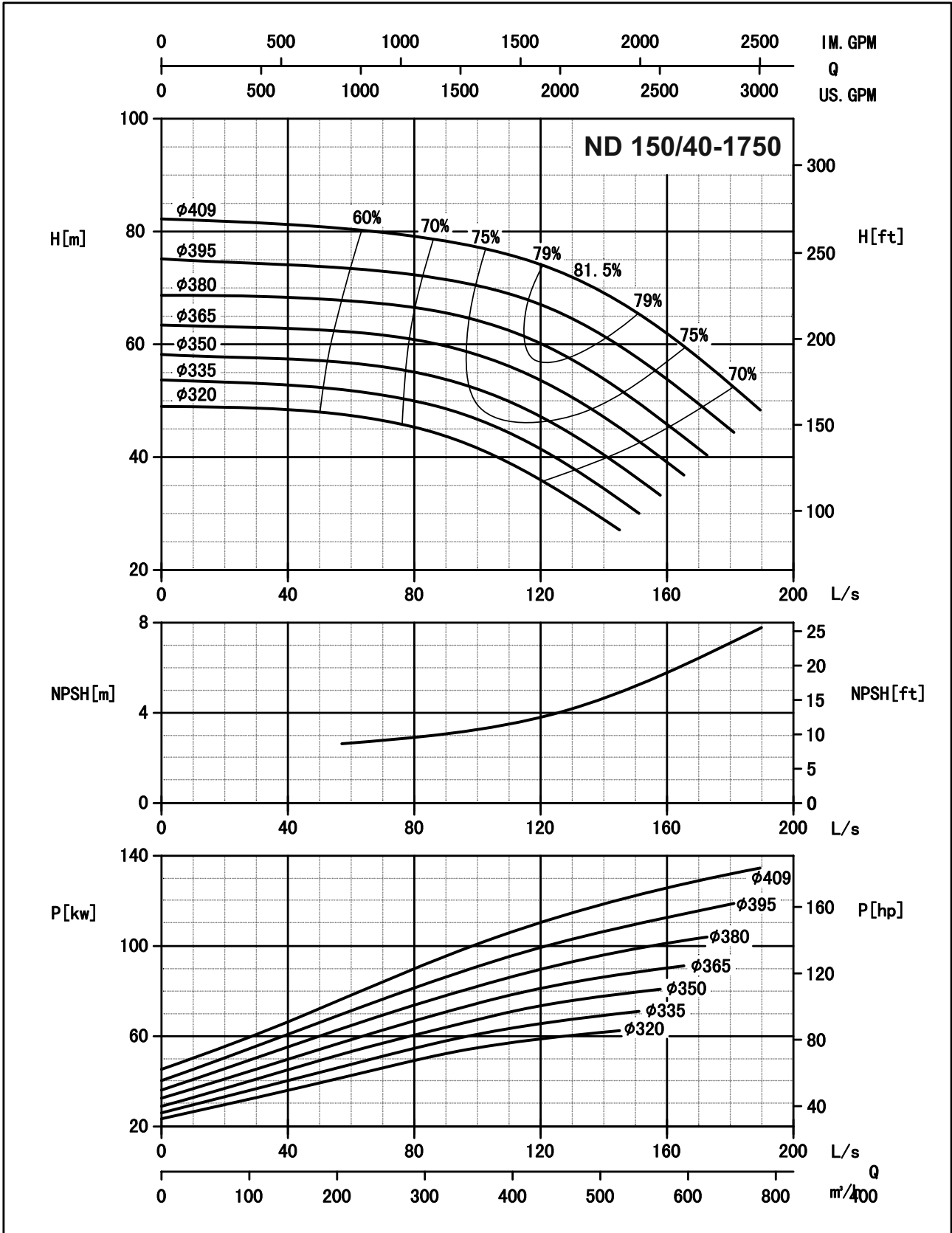
The performance curves apply to ISO9906 grade 2 for clean cold water only.





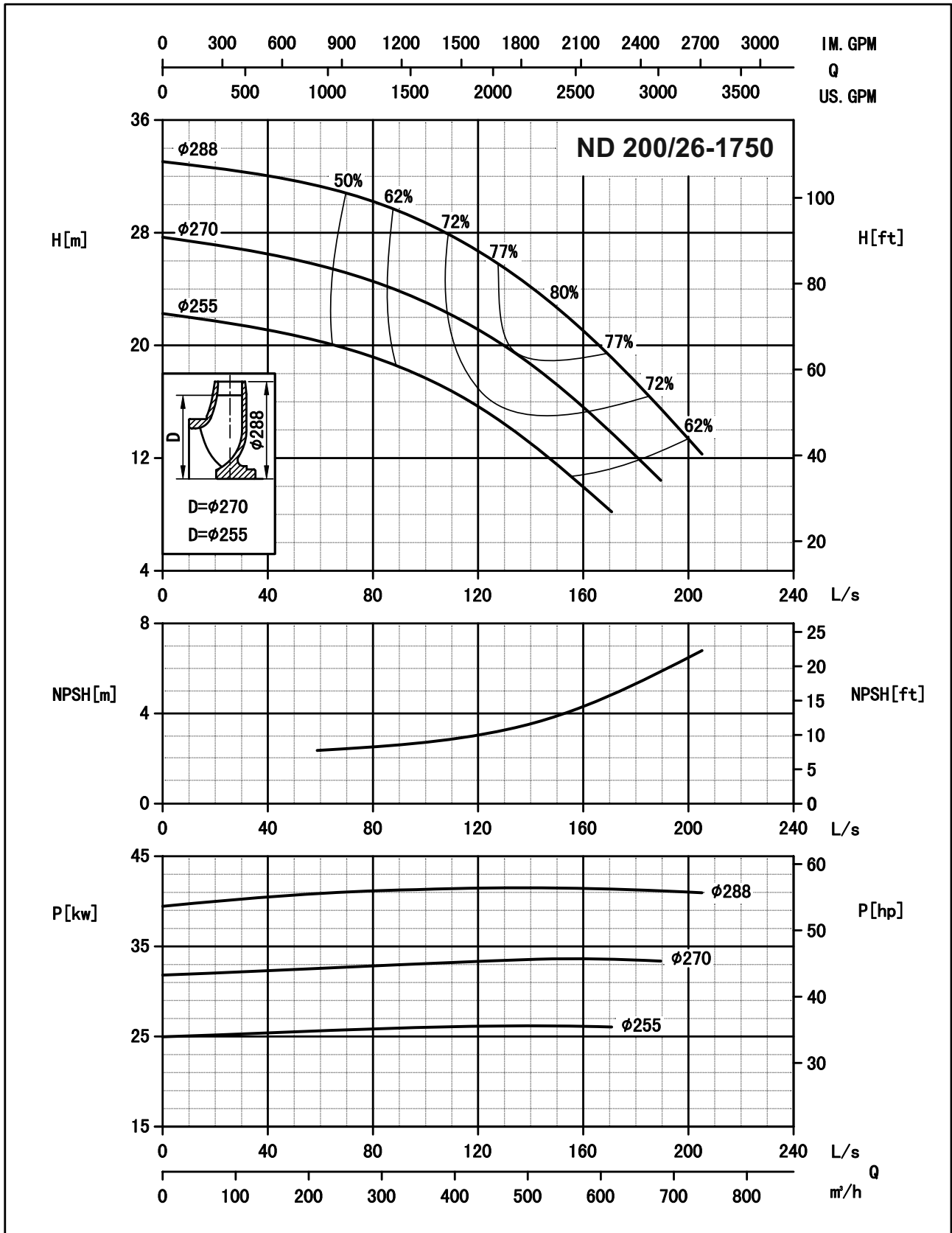
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



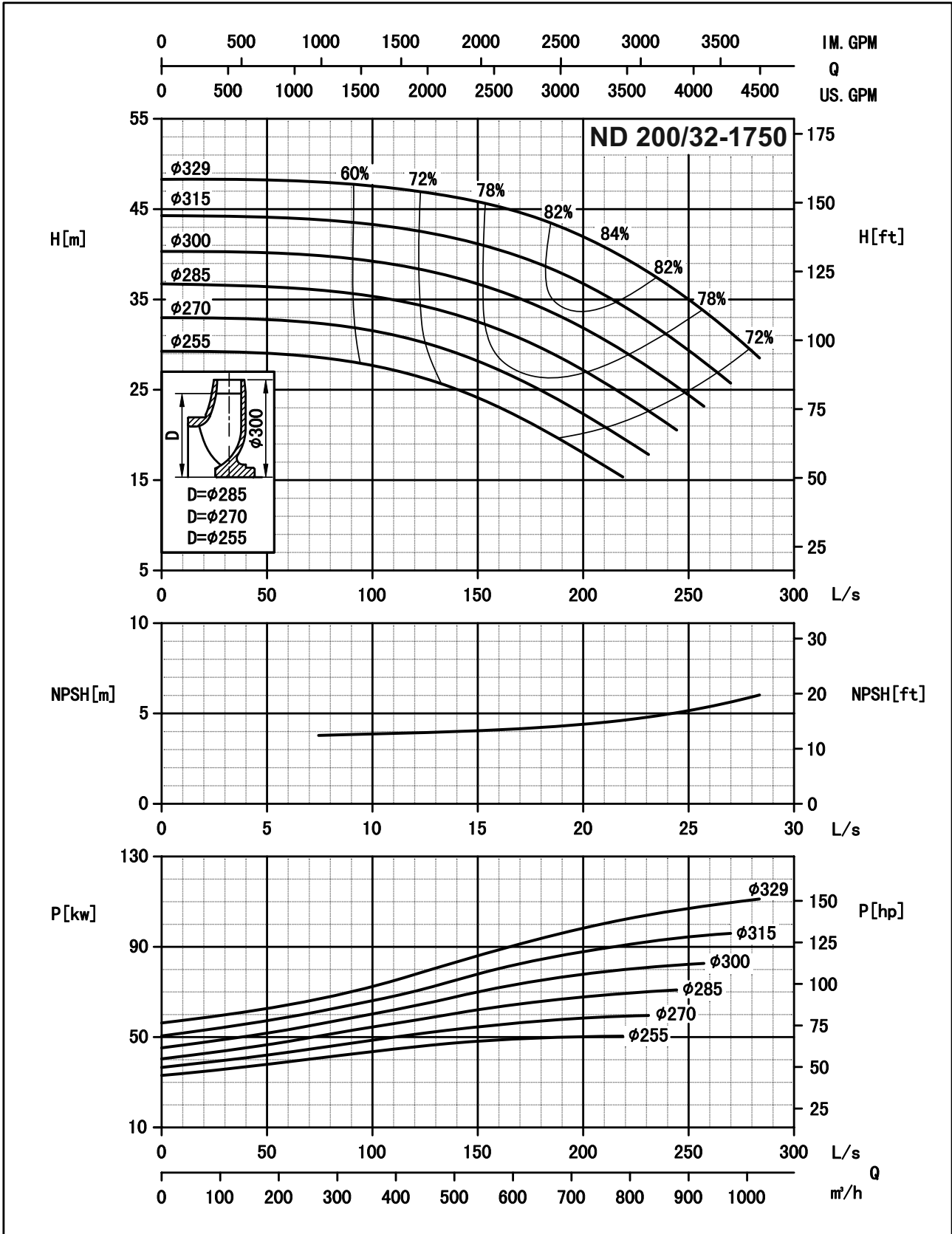
# Performance Curves

The performance curves applies to ISO9906 grade 2 for clean cold water only.



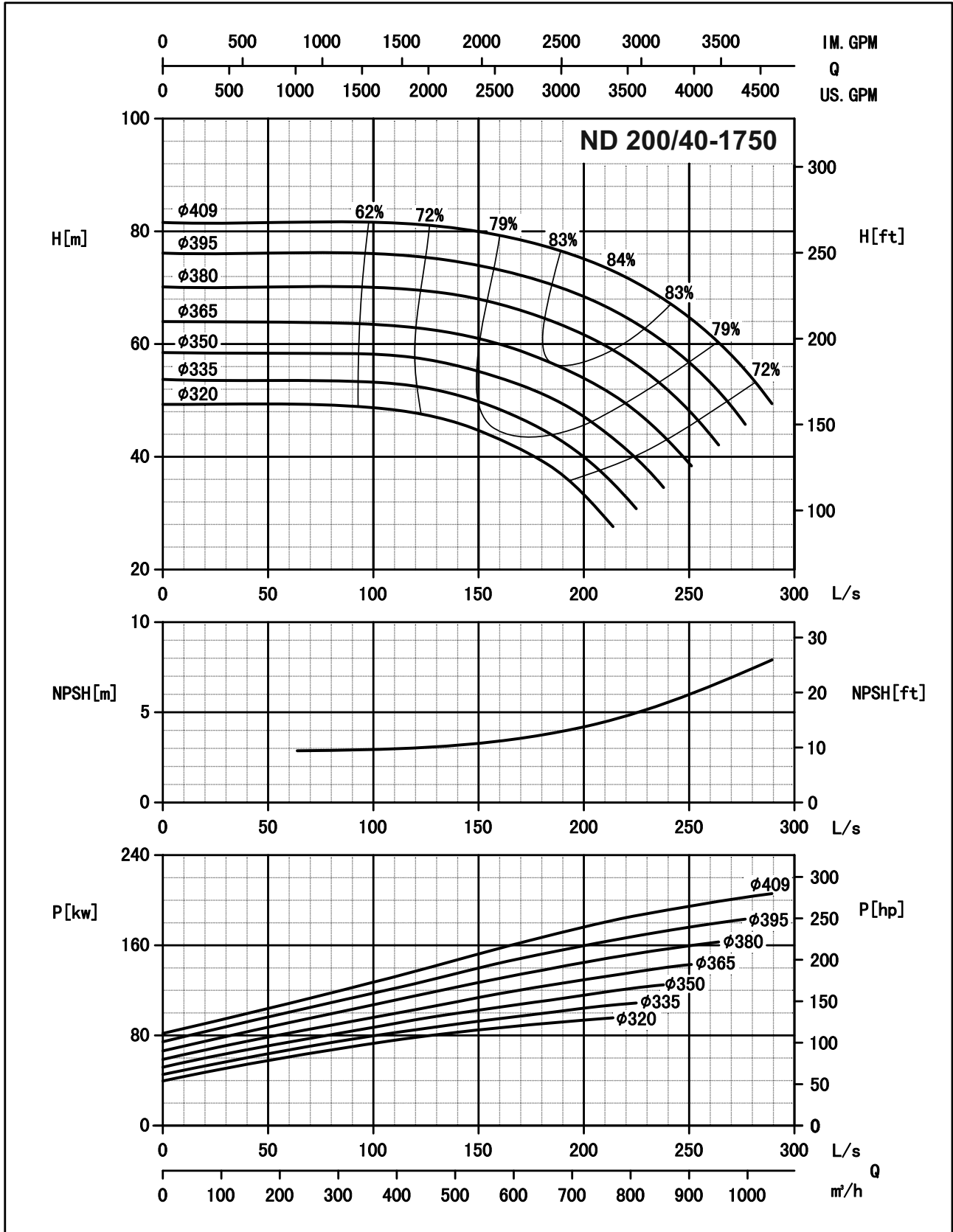
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



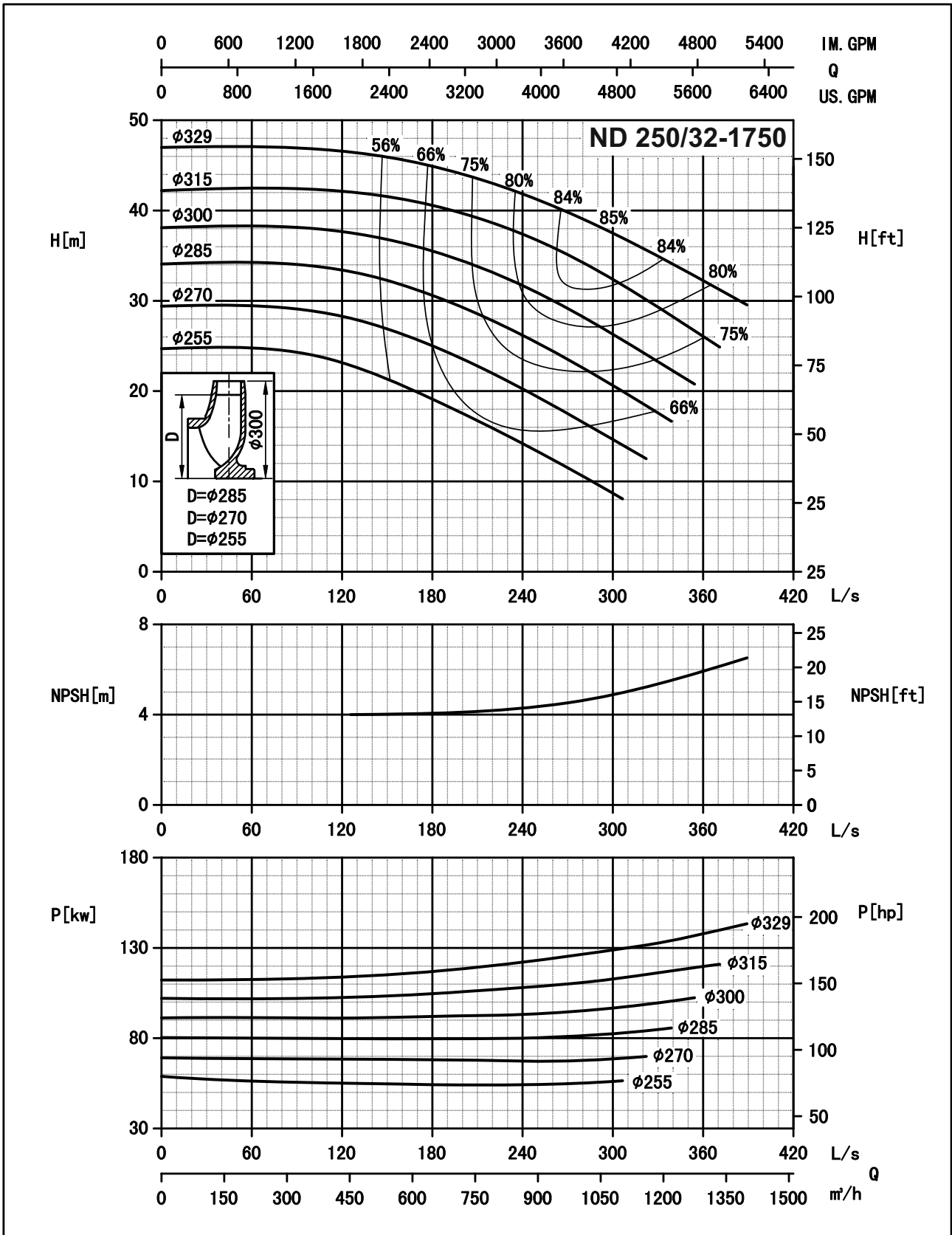
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



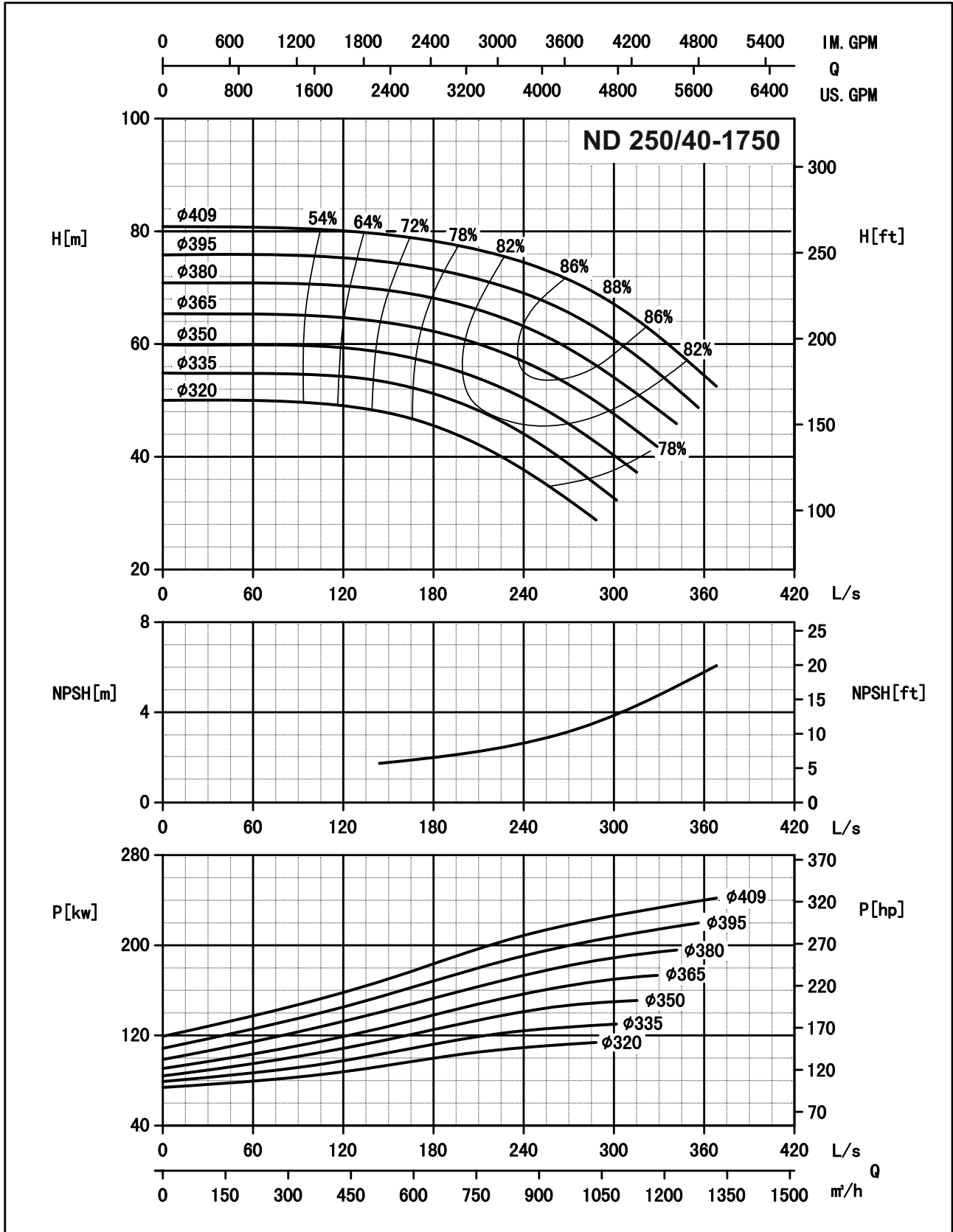
# Performance Curves

The performance curves apply to ISO9906 grade 2 for clean cold water only.



# Performance Curves

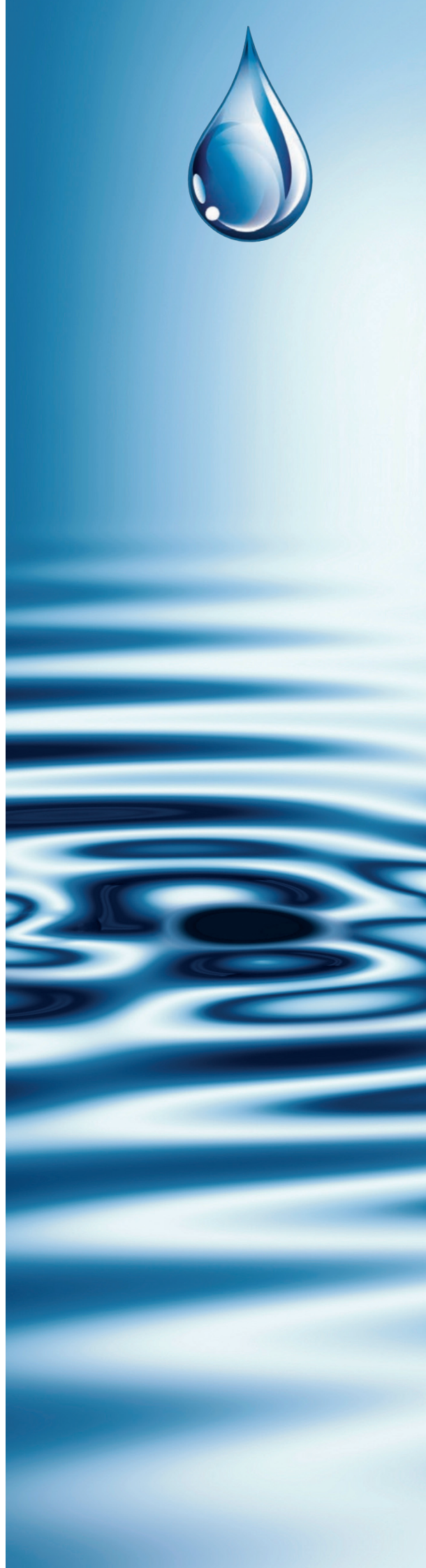
The performance curves apply to ISO9906 grade 2 for clean cold water only.













Swiss Pump Company AG  
Moosweg 36  
CH - 3645 Thun - Gwatt  
Switzerland  
Tel. +41 33 223 11 00  
Fax +41 33 223 11 22  
mail@swisspump.com

[www.swisspump.com](http://www.swisspump.com)