



**C.R.I. PUMPS**

Pumping trust. Worldwide.

# VERTICAL INLINE PUMPS

## VC Series - 50Hz







**C.R.I. PUMPS**

Pumping trust. Worldwide.

## T H E B E G I N N I N G

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an inhouse foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 9000 varieties of perfectly engineered pumps and motors and sells its products in 120 countries across 6 continents

## C . R . I . I S O N E A M O N G

the few pioneers in the world to produce 100% stainless steel submersible pumps and it is a leading manufacturer of environment friendly water filled , rewindable motors .C.R.I.has extensive range of industrial pumps that include end suction pumps, Slurry pumps, Chemical pumps, Waste water pumps, Split case pumps, Booster pumps etc. today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

## T H E I N F R A S T R U C T U R E

of C.R.I. is pretty comprehensive with state-of-the-art machineries and a high potential R&D wing, Total production area over 3.2 million SF, Fully equipped with world class, Machineries with a manufacturing capacities of more than 3 Million pumps and Motors per year and over 9000 product variant are accredited with international quality certifications such as NSF, CSA, CE, UR, UL, TSE, ISO 9001, ISO 14001 and OHAS 18001

## N E E D L E S S T O S A Y ,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work, and, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos:

“Commitment, Reliability, Innovation”.





**C.R.I. FLUID SYSTEMS**

Pumping trust. Worldwide.

### Vision, Mission and Values

To be the industry leader providing best - in - class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of **commitment, reliability** and **innovation**.

# C O N T E N T S

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# VERTICAL INLINE PUMPS

## MODEL IDENTIFICATION CODE

### VERTICAL INLINE PUMPS

**XX - (X) XXX XXX X XX XXX - X - X**

**Vertical Single Stage**

VC - Closed Coupled Type  
VS - Split Coupled Type

**ANSI Flange**

This digit is applicable only for Pump with ANSI Flanges and the Letter "A" will be mentioned

**Outlet Size**

32 - 32mm  
50 - 50mm  
80 - 80mm

Impeller diameter in mm

**Motor IEC Class**

1 - IE1, 2 - IE2, 3 - IE3

2 - 2 Pole

4 - 4 Pole

22 - 2.2, 75 - 7.5, 150 - 15

X - Seal Customization

**Type of M.O.C**

Type	Volute Casing	Impeller	Shaft	Wear Ring
C	C.I	C.I	SS 420	C.I
B	C.I	Br	SS 420	Br
S	C.I	SS 304	SS 304	SS 304
N	C.I	SS 316	SS 316	SS 316

## VERTICAL INLINE PUMPS

### VERTICAL INLINE PUMPS – VC SERIES

#### DESCRIPTION

Single stage, close coupled and top pull out vertical inline pumps are compact and rigid design. Top pull out design facilitates dismantling of motor, motor bracket and impeller without disturbing the casing and pipe work. The inline construction simplifies the piping work and major saving on floor space compared to the other type of pumps. These pumps are powered by a totally enclosed fan cooled three phase premium efficiency motor suitable for continuous duty.

#### DESIGN FEATURES

- High efficiency
- Wide hydraulic ranges
- Pre lubricated sealed bearing ensures long life
- Default mechanical seal option
- Space saving compact design
- Ease of maintenance

#### APPLICATIONS

- Water transfer
- Hot and cold-water supply
- Pressure boosting
- Heating, ventilation and air conditioning system
- Utility services in commercial building and industries
- Back wash application in water treatment plants
- Pumping brines and oils
- Emptying tank and reservoir
- Industry
- Firefighting systems



**OPERATING DATA - PUMP**

Flow	upto 600m³/h
Head	upto 155m
Power Range	2.2 - 90kW
Speed	1450 / 2900RPM
Inlet size	40 - 200mm
Outlet size	32 - 150mm
Liquid Temperature	-10°C to 105°C
Shaft seal	Default Mechanical seal Face Combination - Carbon - Silicon Carbide / Viton
Impeller Type	Enclosed Radial Flow
Maximum Working Pressure	upto 16 bar
Flange Standard	DIN 2501
Design standard	DIN24255 / EN733
Class of Insulation	F
Ingress Protection	IP 55
IEC Efficiency class	Standard - IE2, optional - IE3

**MATERIAL OF CONSTRUCTION (MOC)**

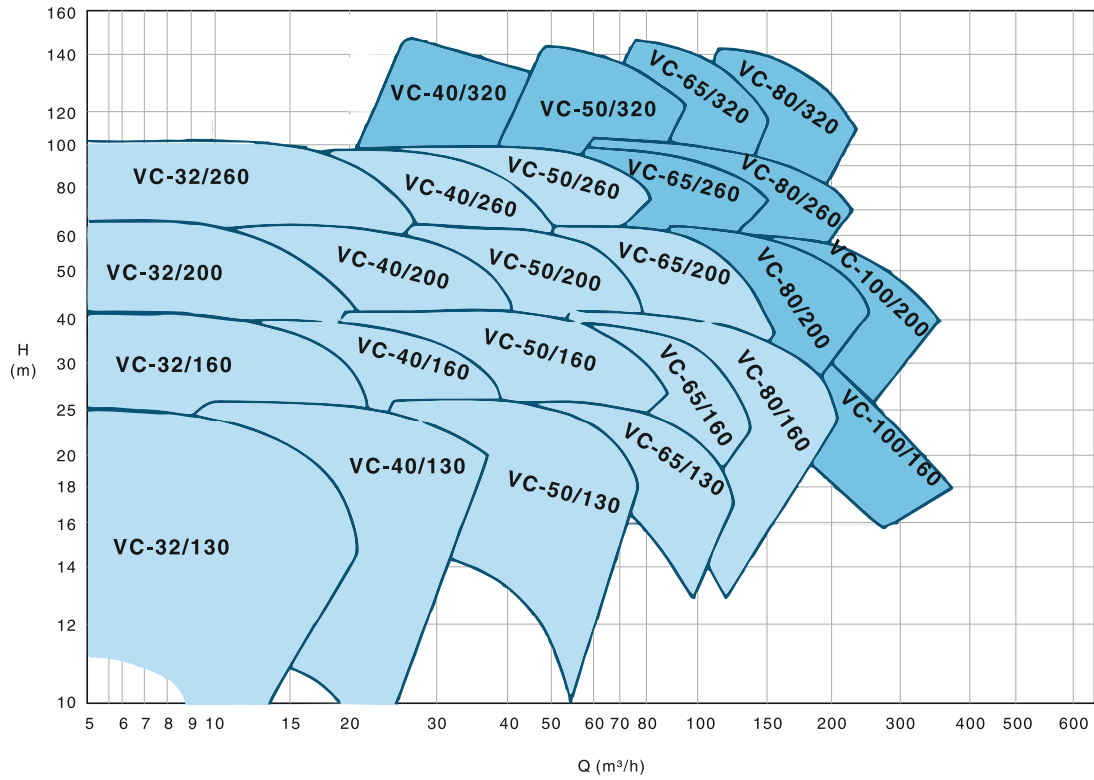
Part	Material
Impeller	Standard - Bronze, Optional - Cast Iron and Stainless steel
Casing & Stuffing box	Standard - Cast Iron, Optional - Ductile Iron
Pump Shaft	Standard - AISI 420, Optional - AISI 304, 316 & Carbon steel
Shaft seal	Face Combination - Carbon - Silicon Carbide / Viton



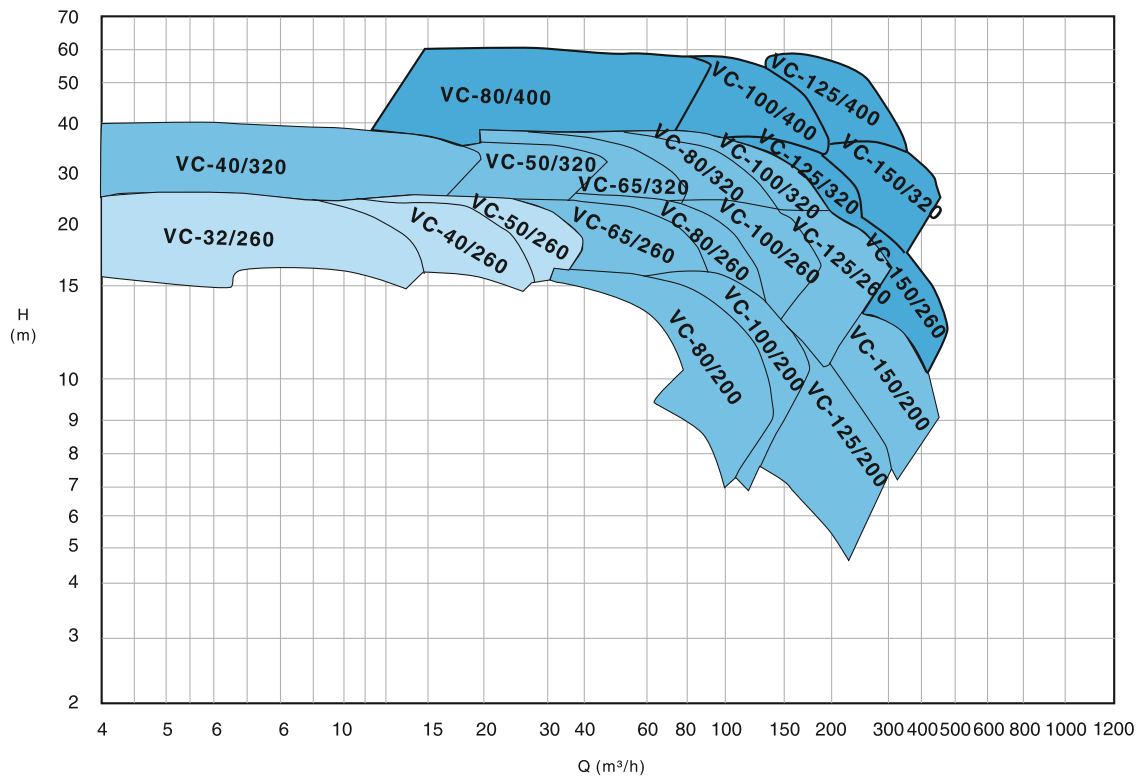
# VERTICAL INLINE PUMPS

## FAMILY CURVES

2900 rpm



1450 rpm



2 Pole (2900 rpm)  
Performance Table and Curve

## VERTICAL INLINE PUMPS

## PUMP PERFORMANCE AT BEST EFFICIENCY POINT

2900 rpm

PUMP MODEL	POWER		PUMP SIZE		SPEED (rpm)	IMPELLER DIA. (mm)	FLOW (lps)	HEAD (m)	EFFICIENCY (%)
	kW	HP	SUCTION (mm)	DELIVERY (mm)					
VC-32/130-22-2-2	2.2	3	40	32	2900	139	4.9	22	64
VC-40/130-22-2-2	2.2	3	65	40	2900	121	6.5	16	73
VC-40/130-30-2-2	3	4	65	40	2900	130	9.2	19	73
VC-40/130-40-2-2	4	5.5	65	40	2900	139	9.6	22.5	74
VC-50/130-30-2-2	3	4	65	50	2900	110	11.2	14	70
VC-50/130-40-2-2	4	5.5	65	50	2900	126	13	18	72
VC-50/130-55-2-2	5.5	7.5	65	50	2900	139	15	23.5	78.5
VC-65/130-55-2-2	5.5	7.5	80	65	2900	128	22	16	69
VC-65/130-75-2-2	7.5	10	80	65	2900	139	24	21	74
VC-32/160-22-2-2	2.2	3	50	32	2900	133	5.3	20	53
VC-32/160-30-2-2	3	4	50	32	2900	148	5.3	27	56
VC-32/160-40-2-2	4	5.5	50	32	2900	166	6.3	33	58
VC-32/160-55-2-2	5.5	7.5	50	32	2900	174	6.7	36	60
VC-40/160-30-2-2	3	4	65	40	2900	139	6.7	22	60
VC-40/160-40-2-2	4	5.5	65	40	2900	153	7.2	28	63
VC-40/160-55-2-2	5.5	7.5	65	40	2900	174	8.6	36	65
VC-50/160-40-2-2	4	5.5	65	50	2900	125	13.5	17	66
VC-50/160-55-2-2	5.5	7.5	65	50	2900	138	14.5	23	68
VC-50/160-75-2-2	7.5	10	65	50	2900	149	15	28	70
VC-50/160-110-2-2	11	15	65	50	2900	174	18	40	74.5
VC-65/160-55-2-2	5.5	7.5	80	65	2900	130	23	18	74
VC-65/160-75-2-2	7.5	10	80	65	2900	143	24	22	78
VC-65/160-110-2-2	11	15	80	65	2900	160	27	29	78
VC-65/160-150-2-2	15	20	80	65	2900	173	29.5	34	79
VC-80/160-110-2-2	11	15	100	80	2900	141	35	20	67
VC-80/160-150-2-2	15	20	100	80	2900	157	37	25	70
VC-80/160-185-2-2	18.5	25	100	80	2900	166	40	30	73
VC-80/160-220-2-2	22	30	100	80	2900	174	42	34	74
VC-100/160-220-2-2	22	30	125	100	2900	178	56	26	71
VC-100/160-300-2-2	30	40	125	100	2900	190	60	32	71
VC-32/200-40-2-2	4	5.5	50	32	2900	170	4.7	37	46
VC-32/200-55-2-2	5.5	7.5	50	32	2900	188	5.3	44	50
VC-32/200-75-2-2	7.5	10	50	32	2900	207	6	55	52
VC-32/200-110-2-2	11	15	50	32	2900	214	6.5	58	52.5
VC-40/200-55-2-2	5.5	7.5	65	40	2900	175	7.8	33	54
VC-40/200-75-2-2	7.5	10	65	40	2900	193	9	42	56
VC-40/200-110-2-2	11	15	65	40	2900	214	10	52	59
VC-50/200-110-2-2	11	15	65	50	2900	178	14.5	38	62
VC-50/200-150-2-2	15	20	65	50	2900	195	16.5	47	64
VC-50/200-185-2-2	18.5	25	65	50	2900	214	18	56	66
VC-65/200-150-2-2	15	20	80	65	2900	174	26	35	70
VC-65/200-185-2-2	18.5	25	80	65	2900	188	29	41	73
VC-65/200-220-2-2	22	30	80	65	2900	201	31	47	74
VC-65/200-300-2-2	30	40	80	65	2900	214	34	55	77
VC-80/200-220-2-2	22	30	100	80	2900	172	42	32	70
VC-80/200-300-2-2	30	40	100	80	2900	191	46	44	74
VC-80/200-370-2-2	37	50	100	80	2900	207	47	53	76
VC-80/200-450-2-2	45	60	100	80	2900	214	49	57	76
VC-100/200-300-2-2	30	40	125	100	2900	180	60	32	71
VC-100/200-370-2-2	37	50	125	100	2900	191	63	40	74
VC-100/200-450-2-2	45	60	125	100	2900	202	67	46	75
VC-100/200-550-2-2	55	75	125	100	2900	214	73	53	75
VC-125/200-550-2-2	55	75	150	125	2900	200	85	40	64
VC-125/200-750-2-2	75	100	150	125	2900	214	87	50	68
VC-32/260-110-2-2	11	15	50	32	2900	216	8	58	44
VC-32/260-150-2-2	15	20	50	32	2900	237	9	70	48
VC-32/260-185-2-2	18.5	25	50	32	2900	257	10.5	80	51
VC-32/260-220-2-2	22	30	50	32	2900	264	10.8	84	51
VC-40/260-110-2-2	11	15	65	40	2900	210	9.5	48	46
VC-40/260-150-2-2	15	20	65	40	2900	225	10.3	59	48
VC-40/260-185-2-2	18.5	25	65	40	2900	245	11.2	70	50
VC-40/260-220-2-2	22	30	65	40	2900	264	12	82	51
VC-50/260-185-2-2	18.5	25	65	50	2900	205	18	55	60
VC-50/260-220-2-2	22	30	65	50	2900	218	20	60	62
VC-50/260-300-2-2	30	30	65	50	2900	245	22.5	75	64
VC-50/260-370-2-2	37	50	65	50	2900	264	24	87	65
VC-65/260-300-2-2	30	40	80	65	2900	217	29	60	70

## VERTICAL INLINE PUMPS

### PUMP PERFORMANCE AT BEST EFFICIENCY POINT

2900 rpm

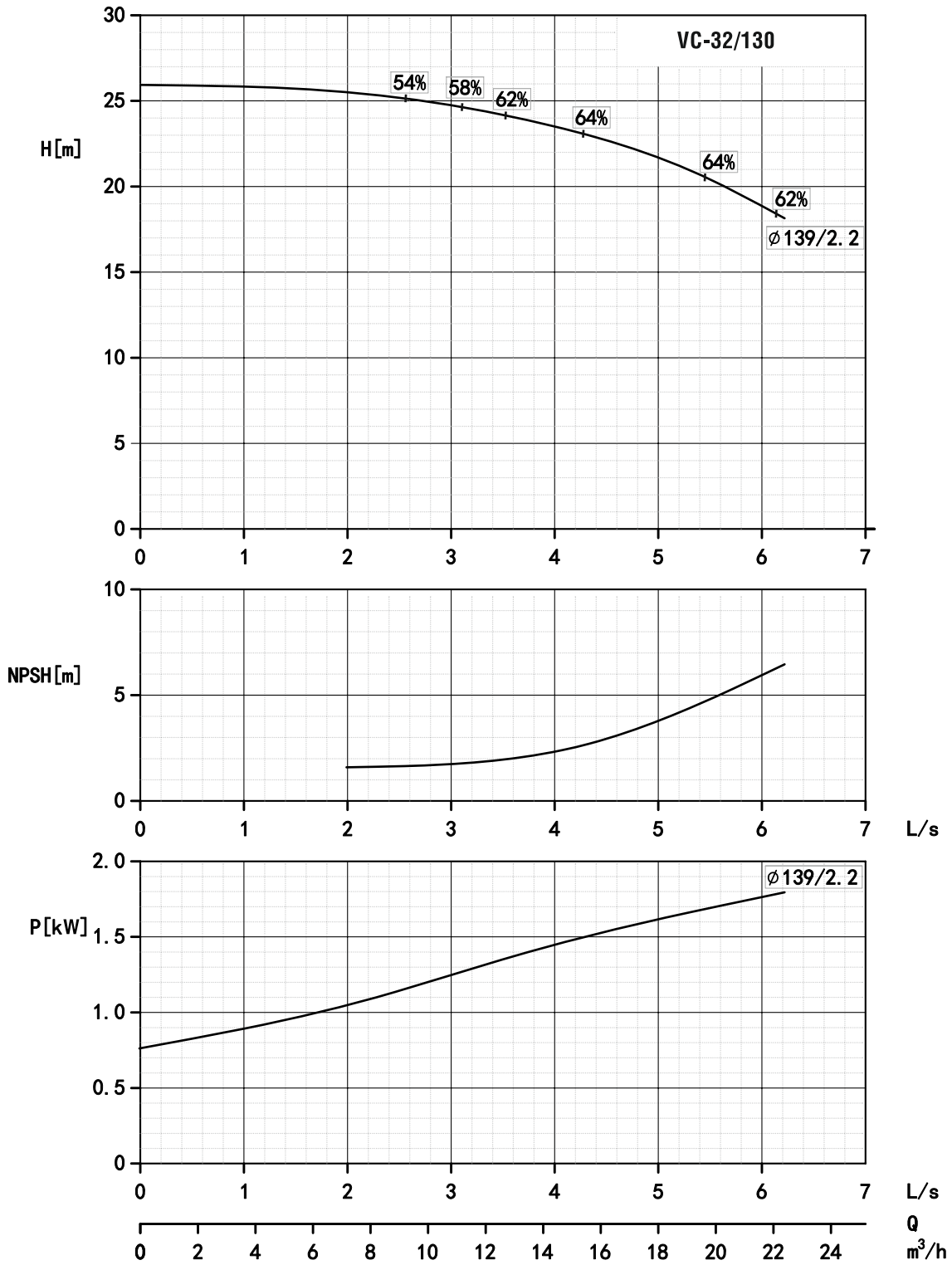
PUMP MODEL	POWER		PUMP SIZE		SPEED (rpm)	IMPELLER DIA. (mm)	FLOW (lps)	HEAD (m)	EFFICIENCY (%)
	kW	HP	SUCTION (mm)	DELIVERY (mm)					
VC-65/260-370-2-2	37	50	80	65	2900	233	33	72	71
VC-65/260-450-2-2	45	60	80	65	2900	252	36	85	73
VC-65/260-550-2-2	55	75	80	65	2900	264	37	93	75
VC-80/260-450-2-2	45	60	100	80	2900	229	46	64	72
VC-80/260-550-2-2	55	60	100	80	2900	243	47.5	75	73
VC-80/260-750-2-2	75	100	100	80	2900	264	50	90	74
VC-100/260-550-2-2	55	75	125	100	2900	212	63	54	74
VC-100/260-750-2-2	75	100	125	100	2900	234	70	66	78
VC-40/320-220-2-2	22	30	65	40	2900	265	8.5	90	38
VC-40/320-300-2-2	30	40	65	40	2900	292	9.2	112	40
VC-40/320-370-2-2	37	50	65	40	2900	310	10	130	40
VC-40/320-450-2-2	45	60	65	40	2900	329	10.2	147.5	42
VC-50/320-370-2-2	37	50	65	50	2900	265	21.5	85	53
VC-50/320-450-2-2	45	60	65	50	2900	280	23	97	55
VC-50/320-550-2-2	55	75	65	50	2900	297	24	113	55
VC-50/320-750-2-2	75	100	65	50	2900	329	25.5	142	57
VC-65/320-550-2-2	55	75	80	65	2900	270	30	96	63
VC-65/320-750-2-2	75	100	80	65	2900	302	33	120	65
VC-65/320-900-2-2	90	125	80	65	2900	329	36	145	66
VC-80/320-750-2-2	75	100	100	80	2900	271	48	93	68
VC-80/320-900-2-2	90	125	100	80	2900	288	50	108	72

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-32/130

2900rpm



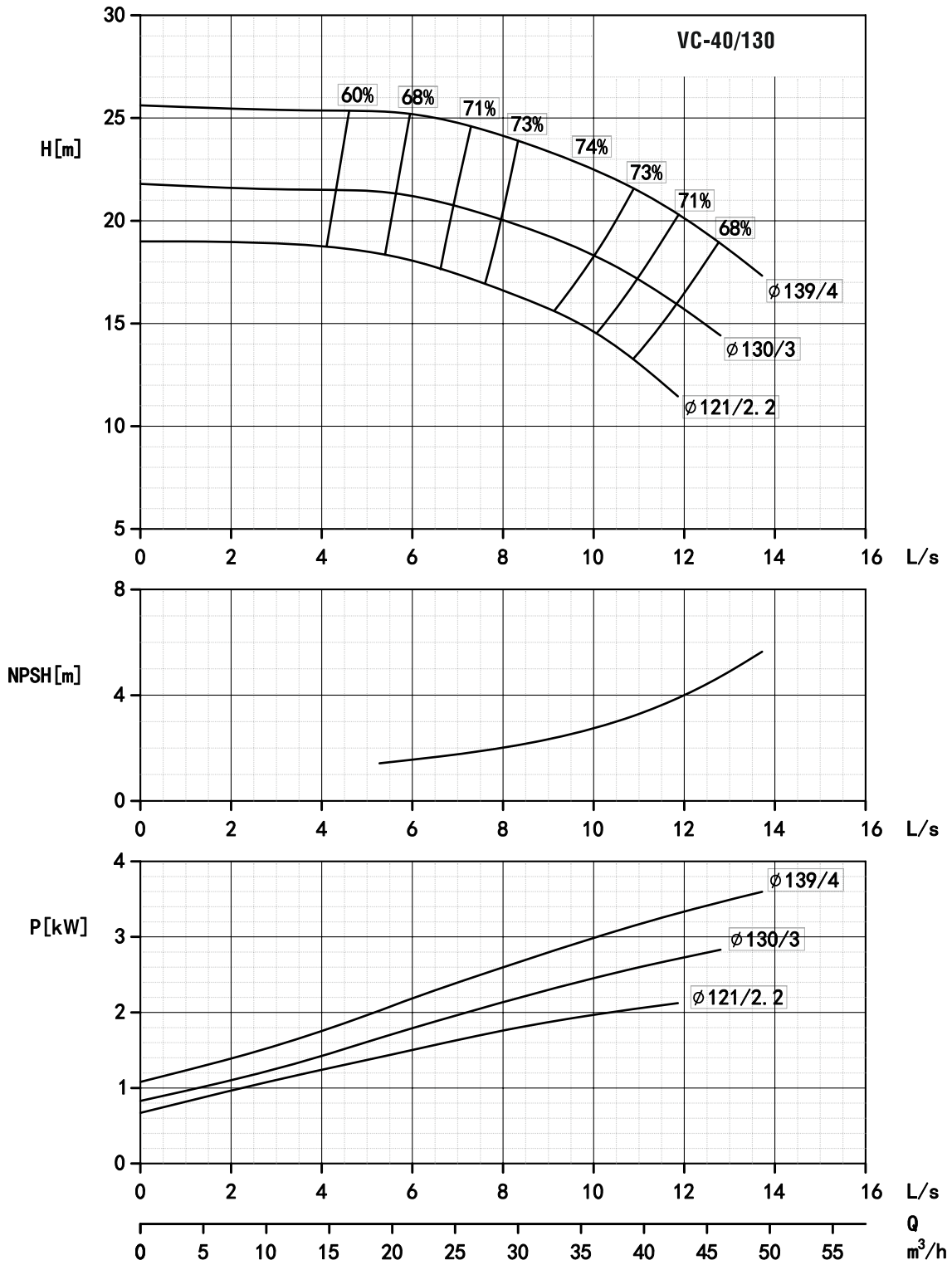
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# Performance Curve

Pump Model : VC-40/130

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

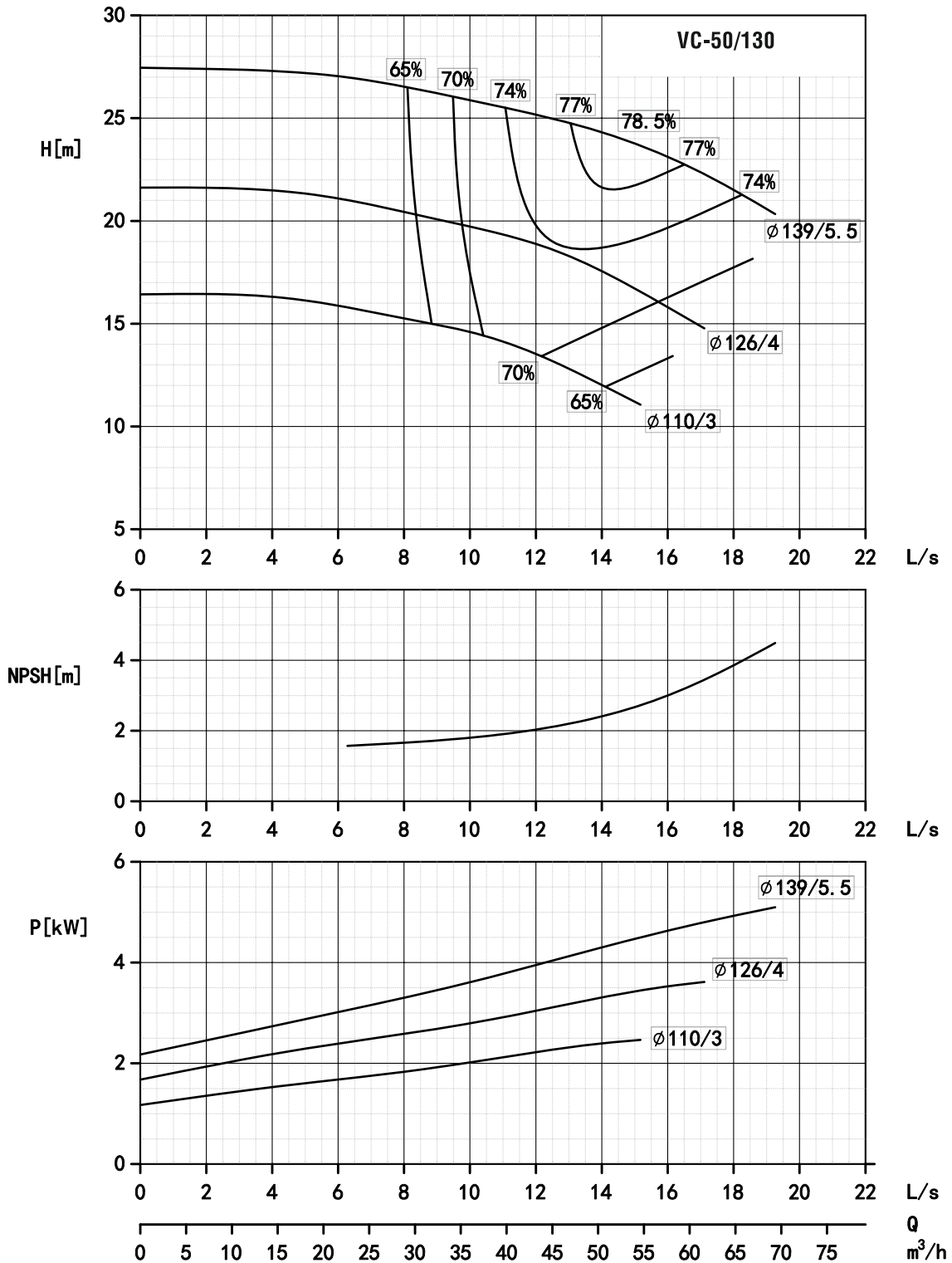
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# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-50/130

2900rpm



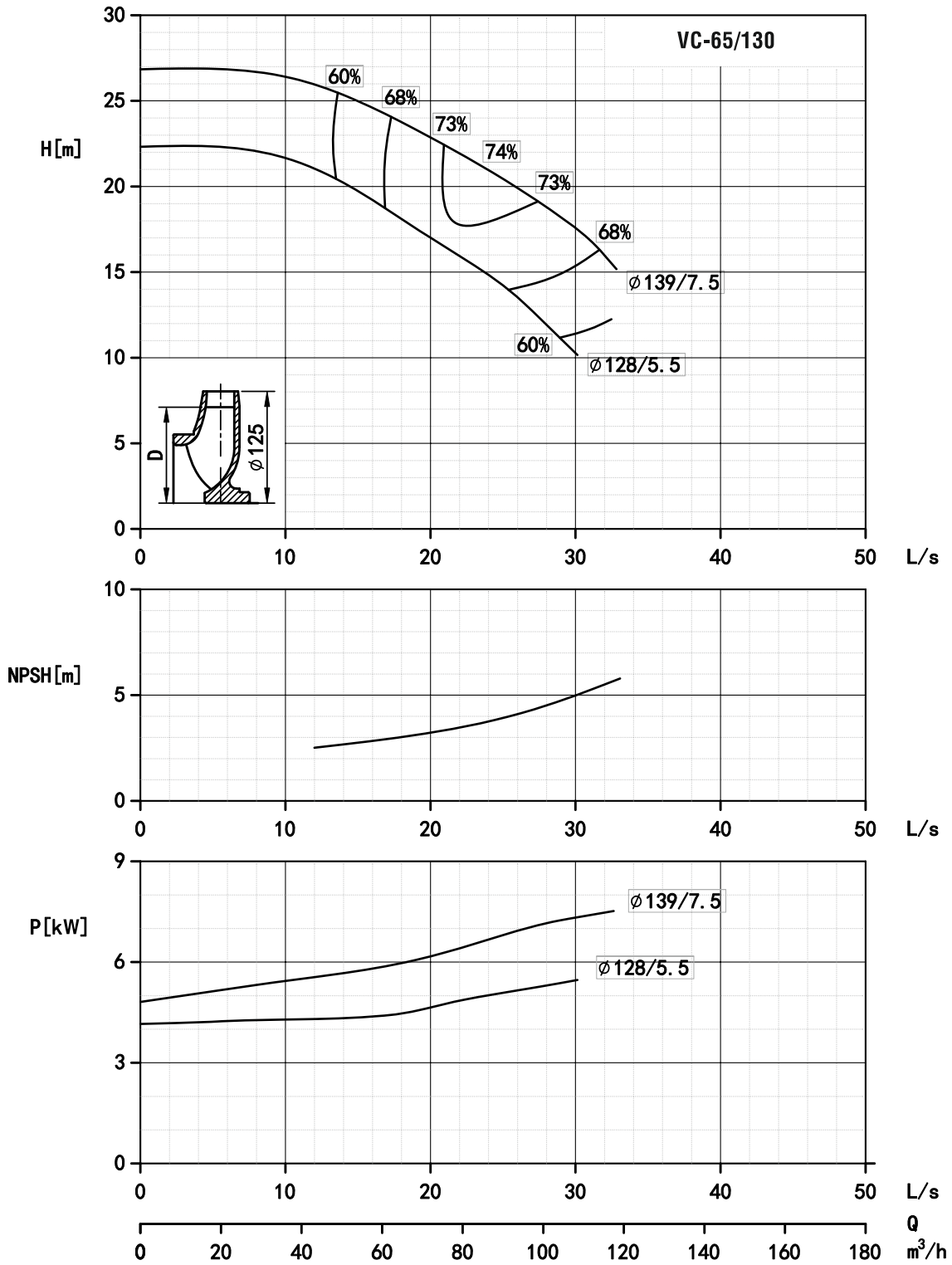
Performance to tolerance as per ISO 9906 Grade 2B.  
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# Performance Curve

Pump Model : VC-65/130

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
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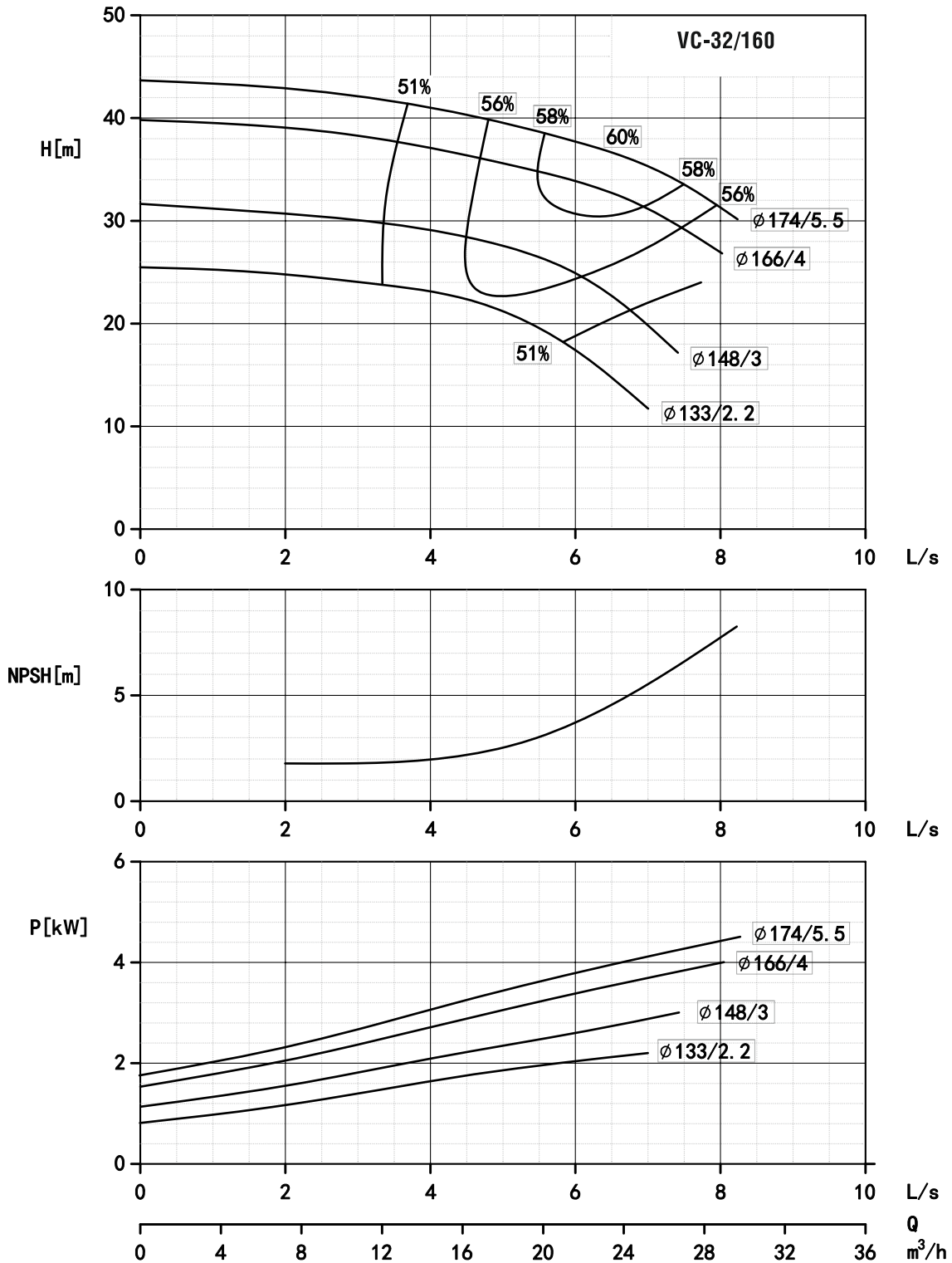


# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-32/160

2900rpm



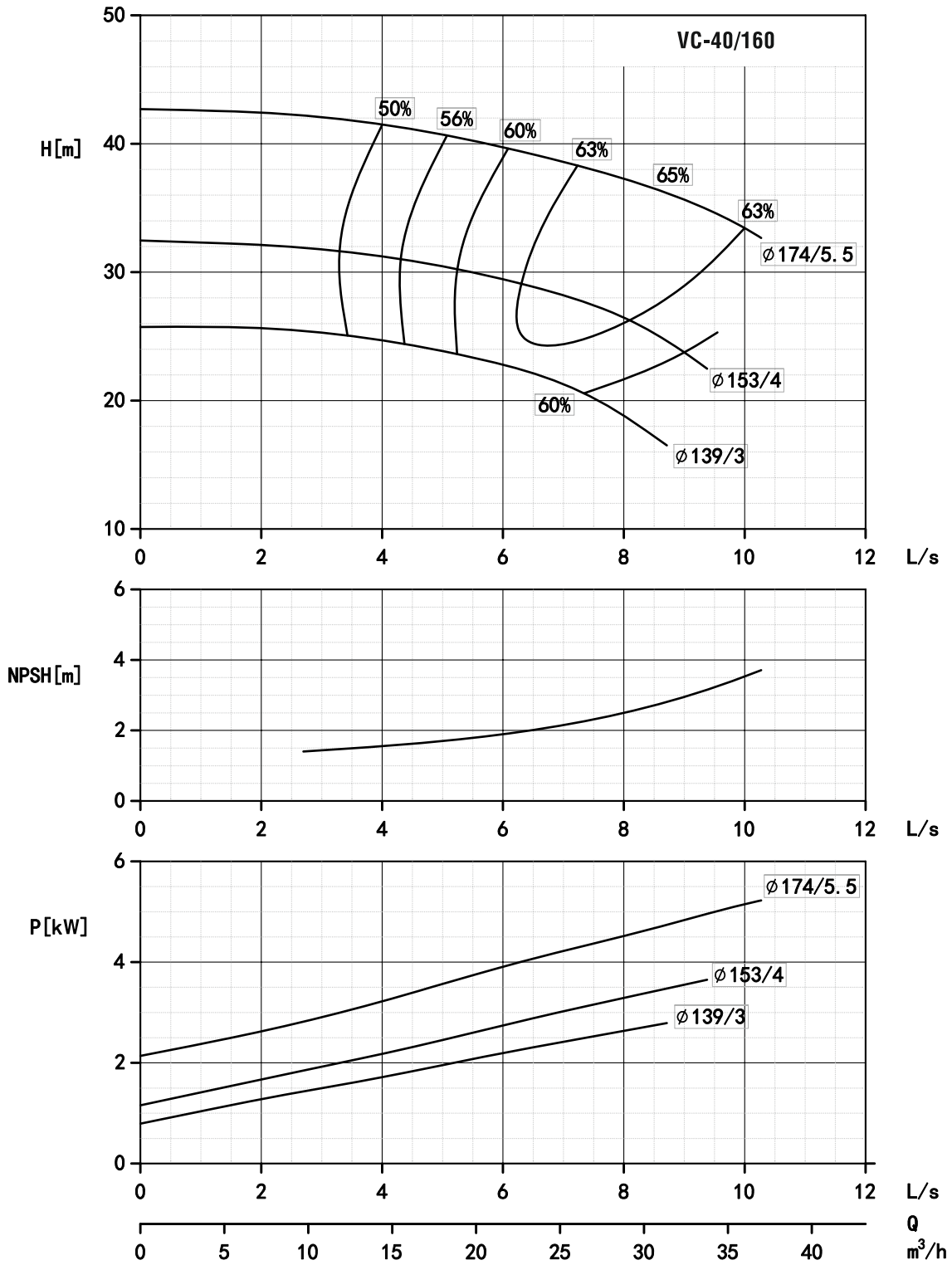
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-40/160

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

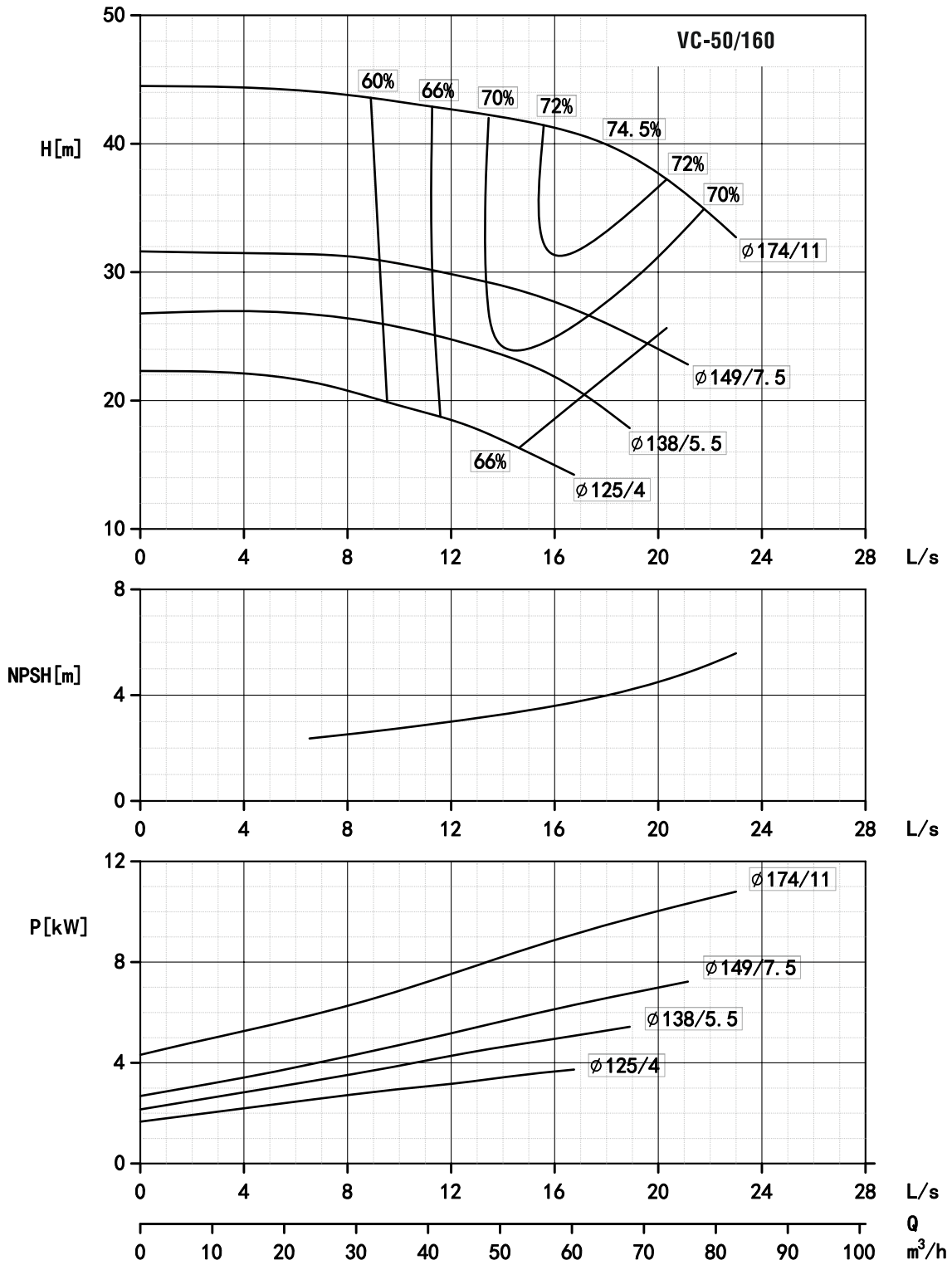
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-50/160

2900rpm



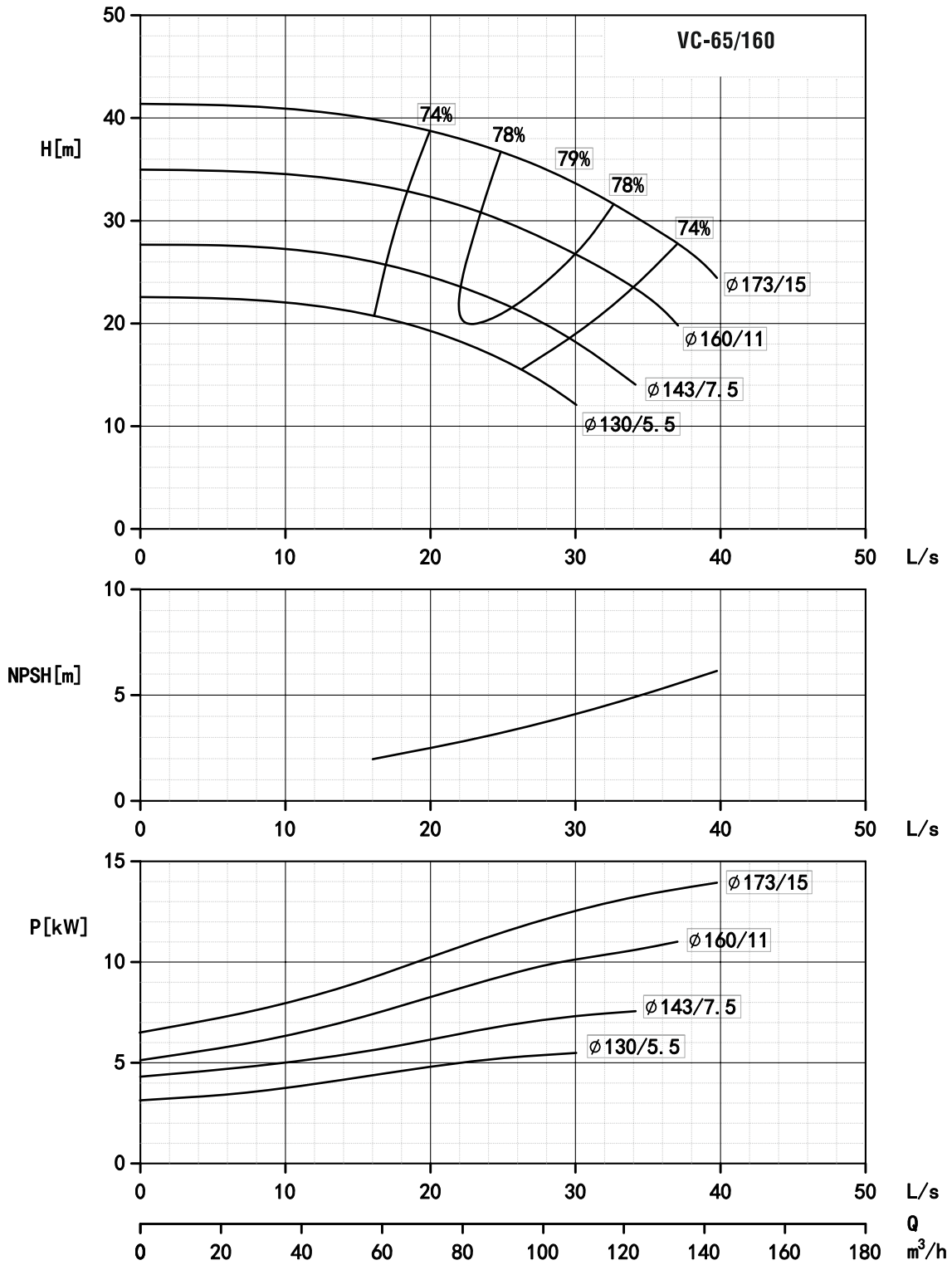
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-65/160

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

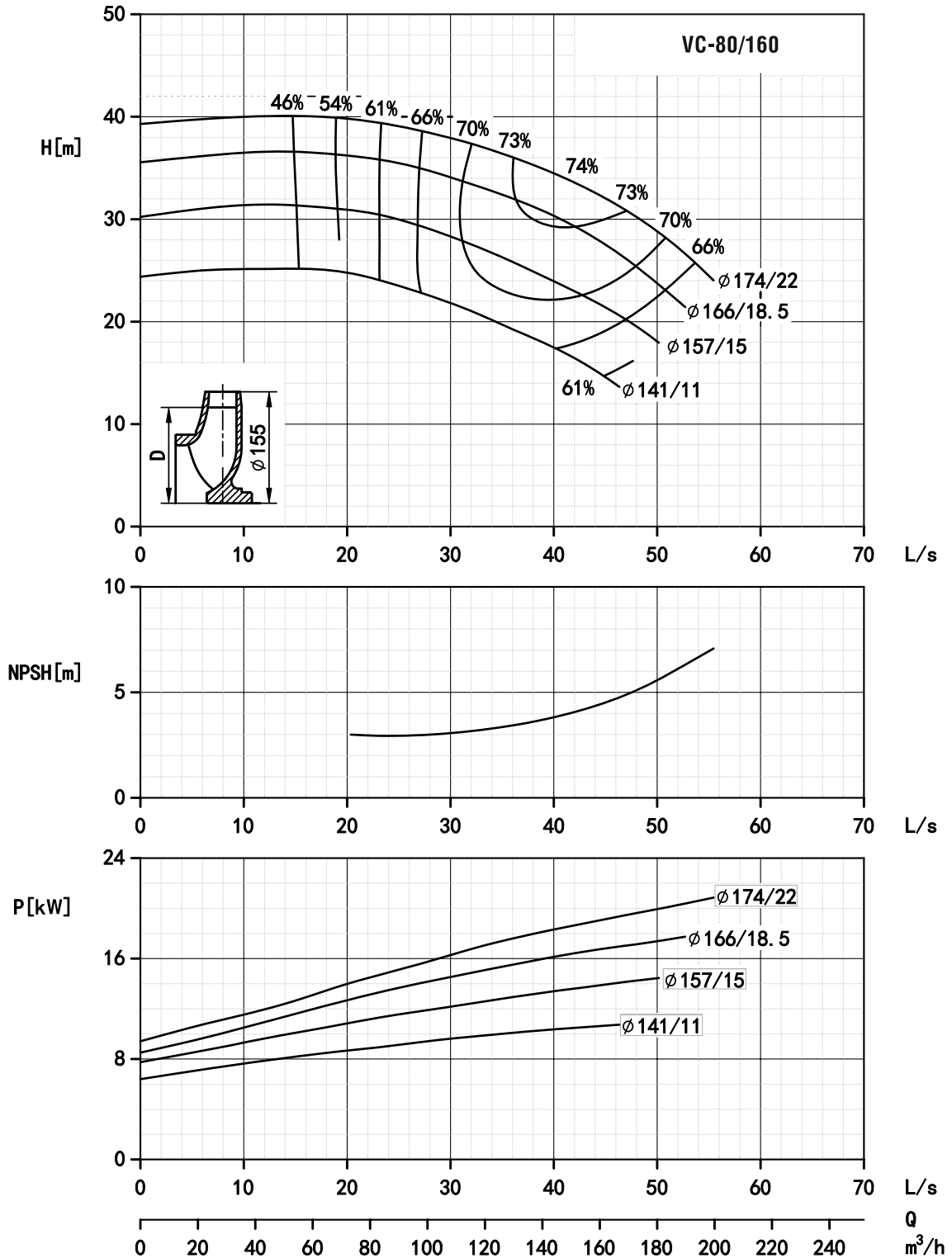
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-80/160

2900rpm



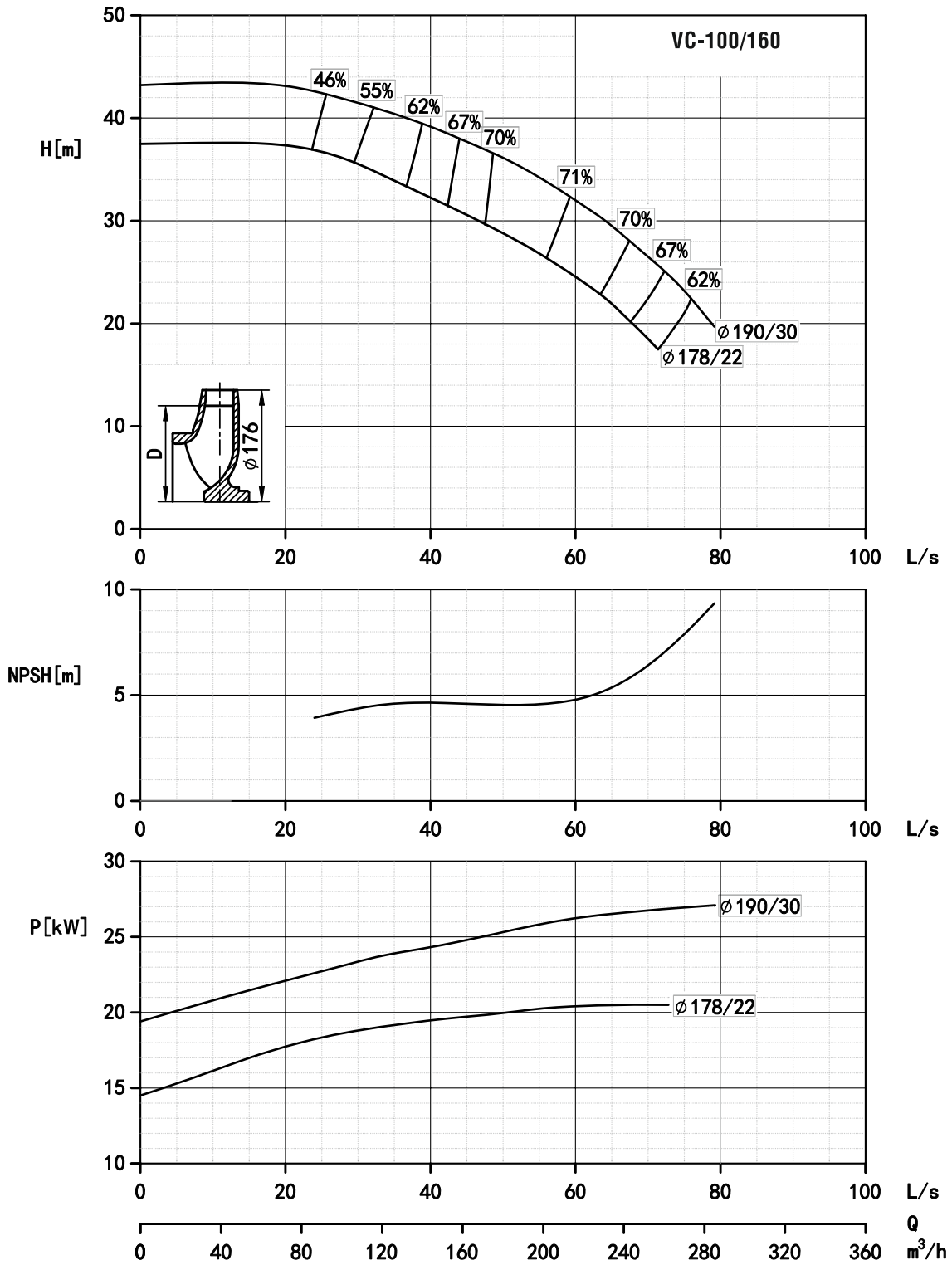
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-100/160

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

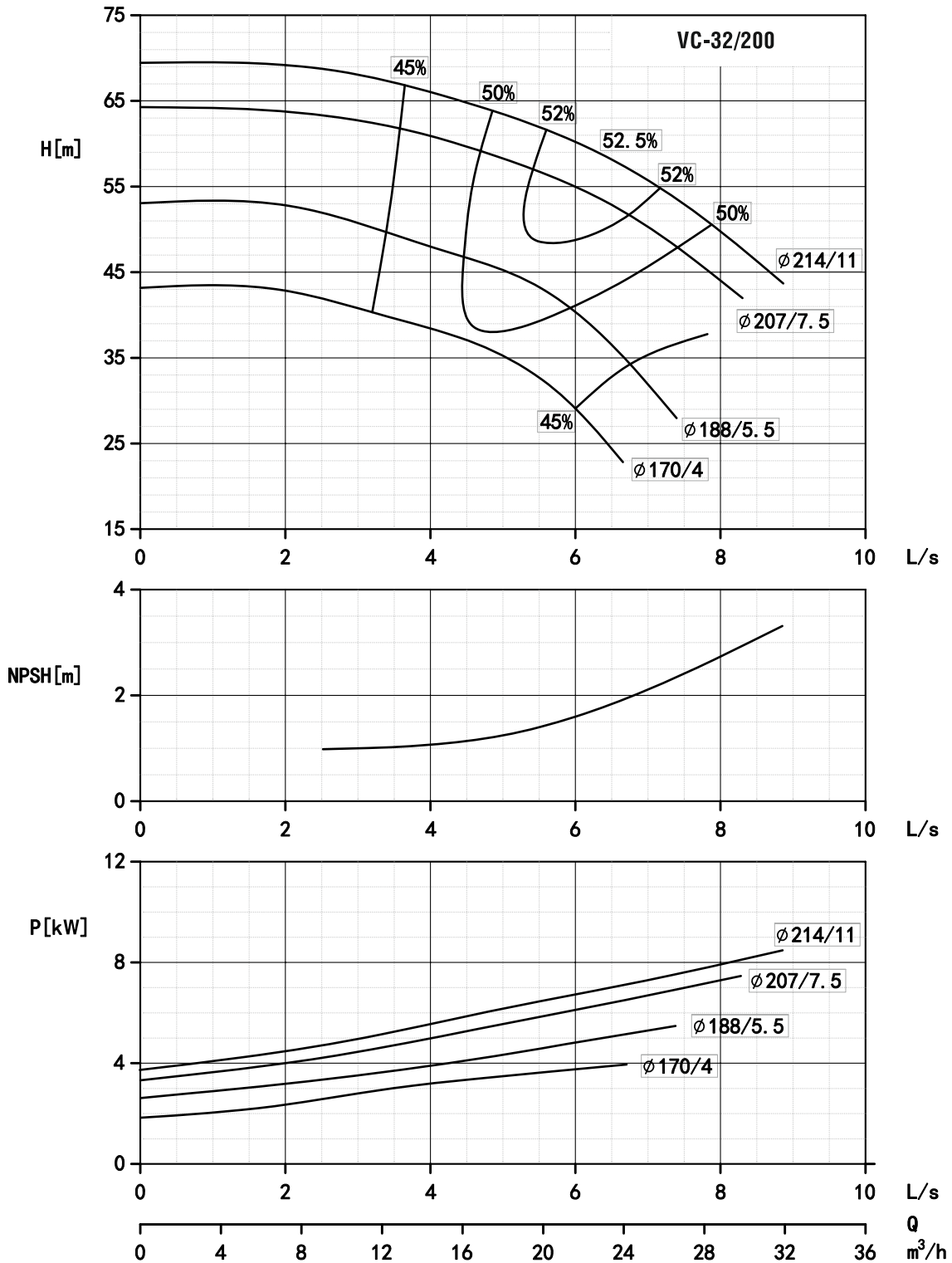
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-32/200

2900rpm



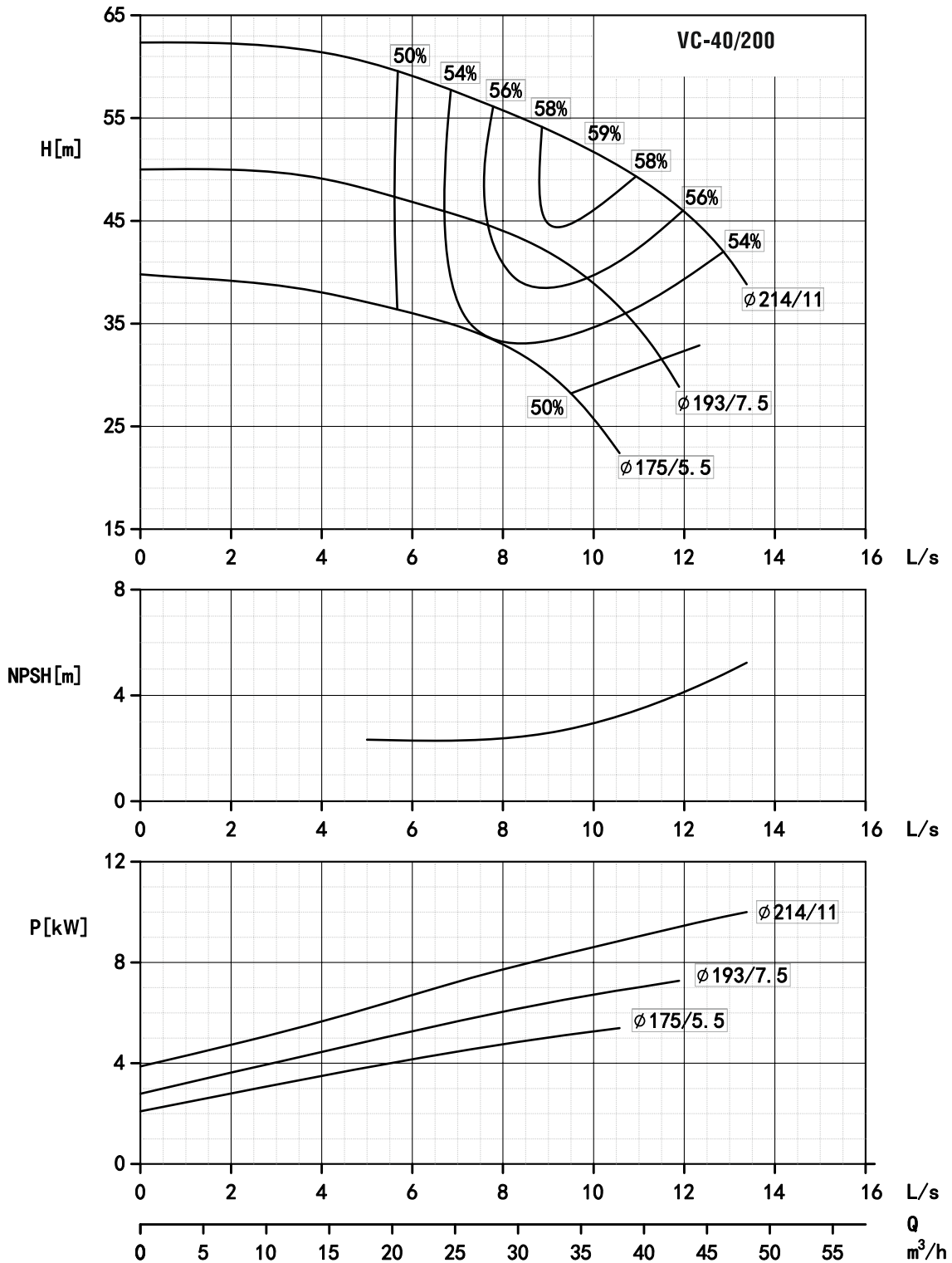
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-40/200

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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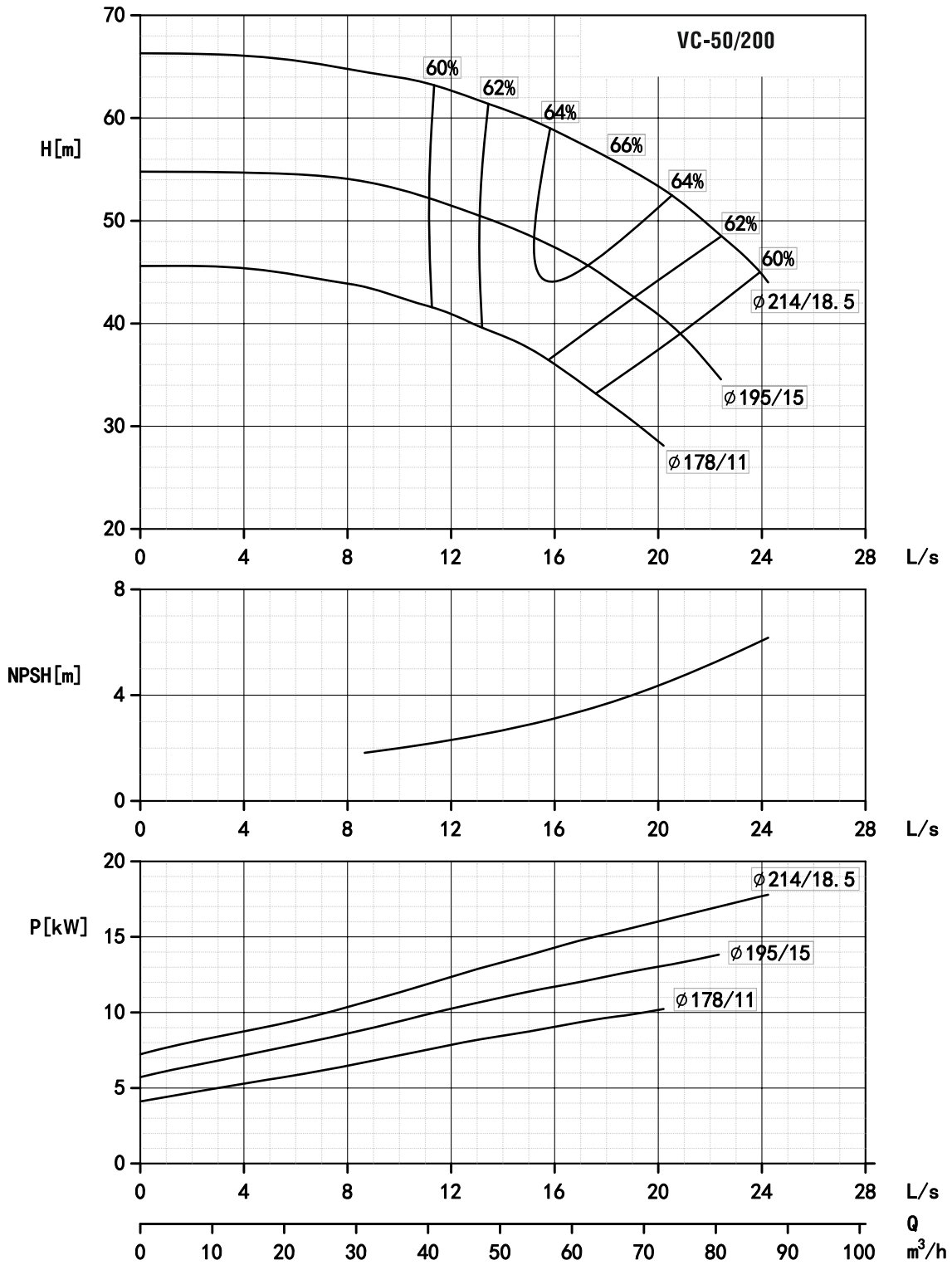


# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-50/200

2900rpm



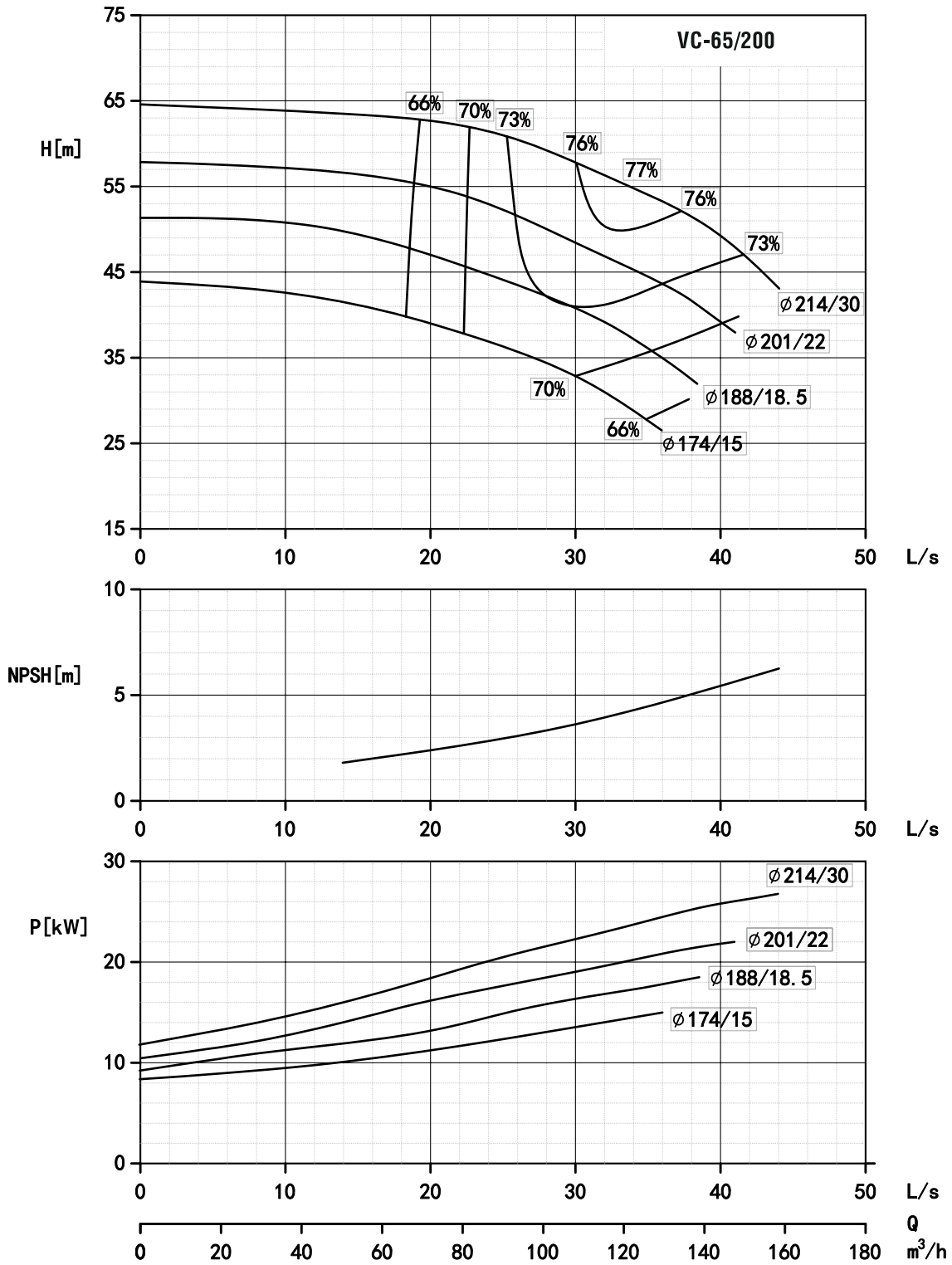
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-65/200

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

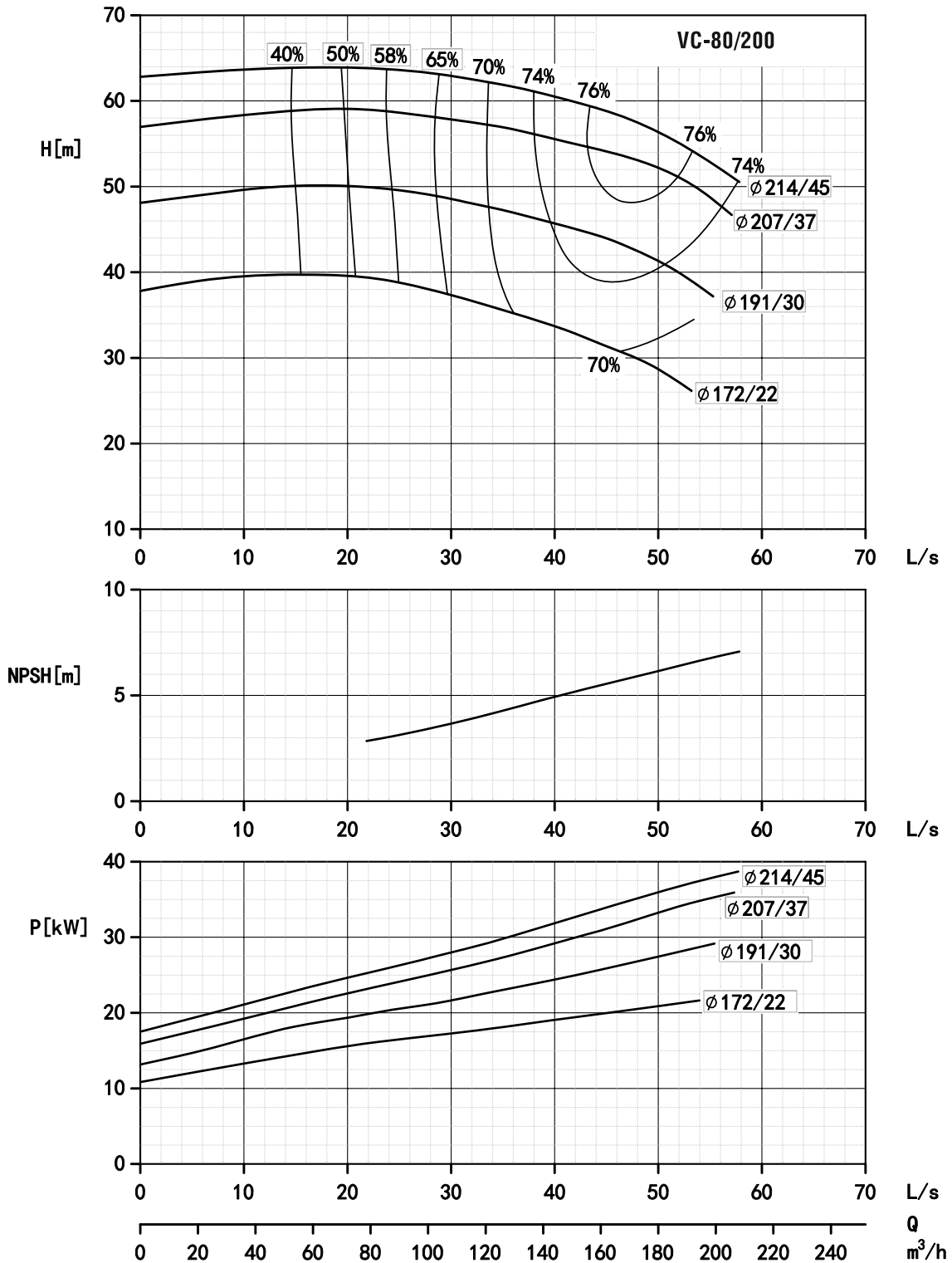
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-80/200

2900rpm



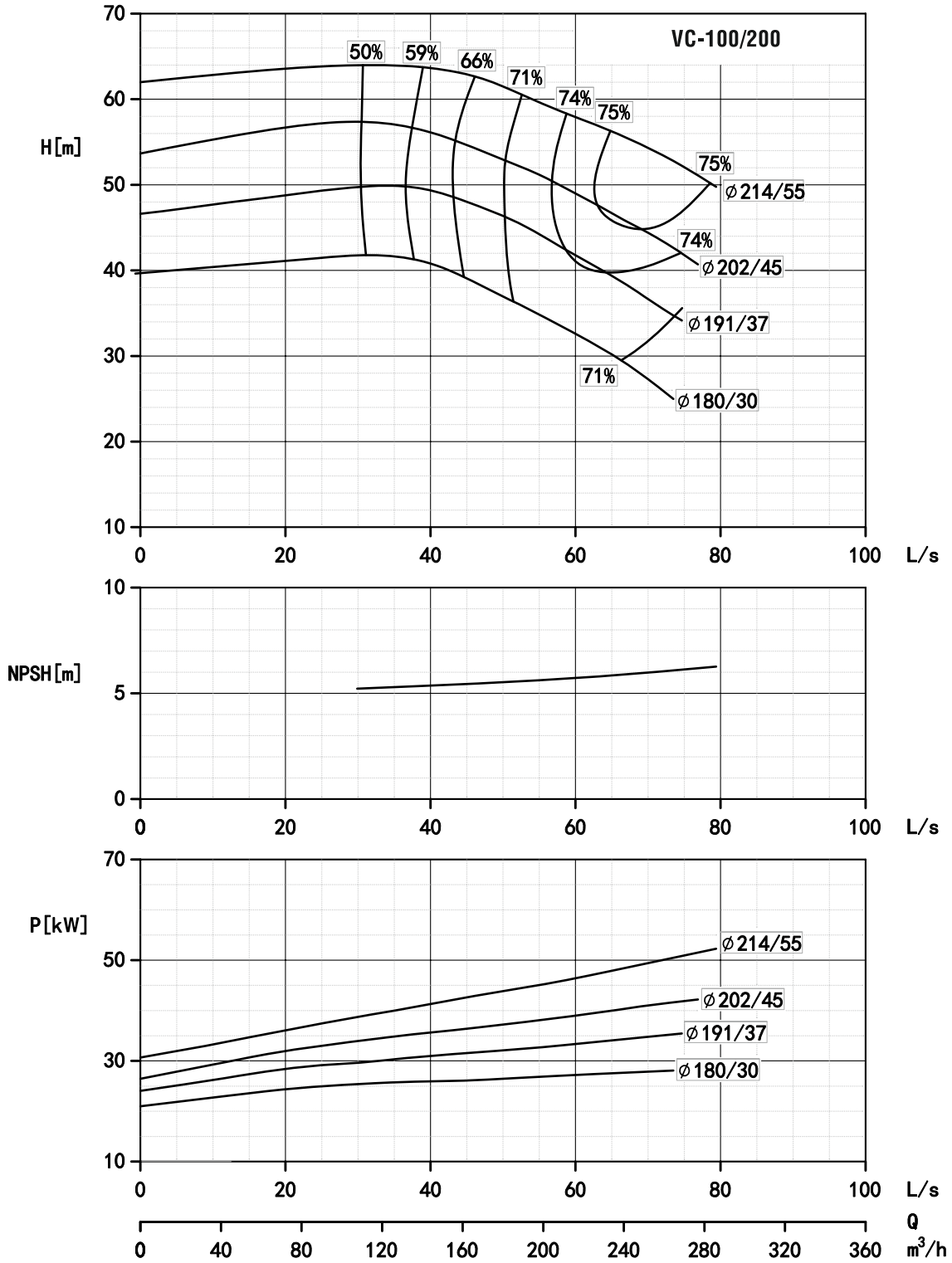
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# Performance Curve

Pump Model : VC-100/200

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

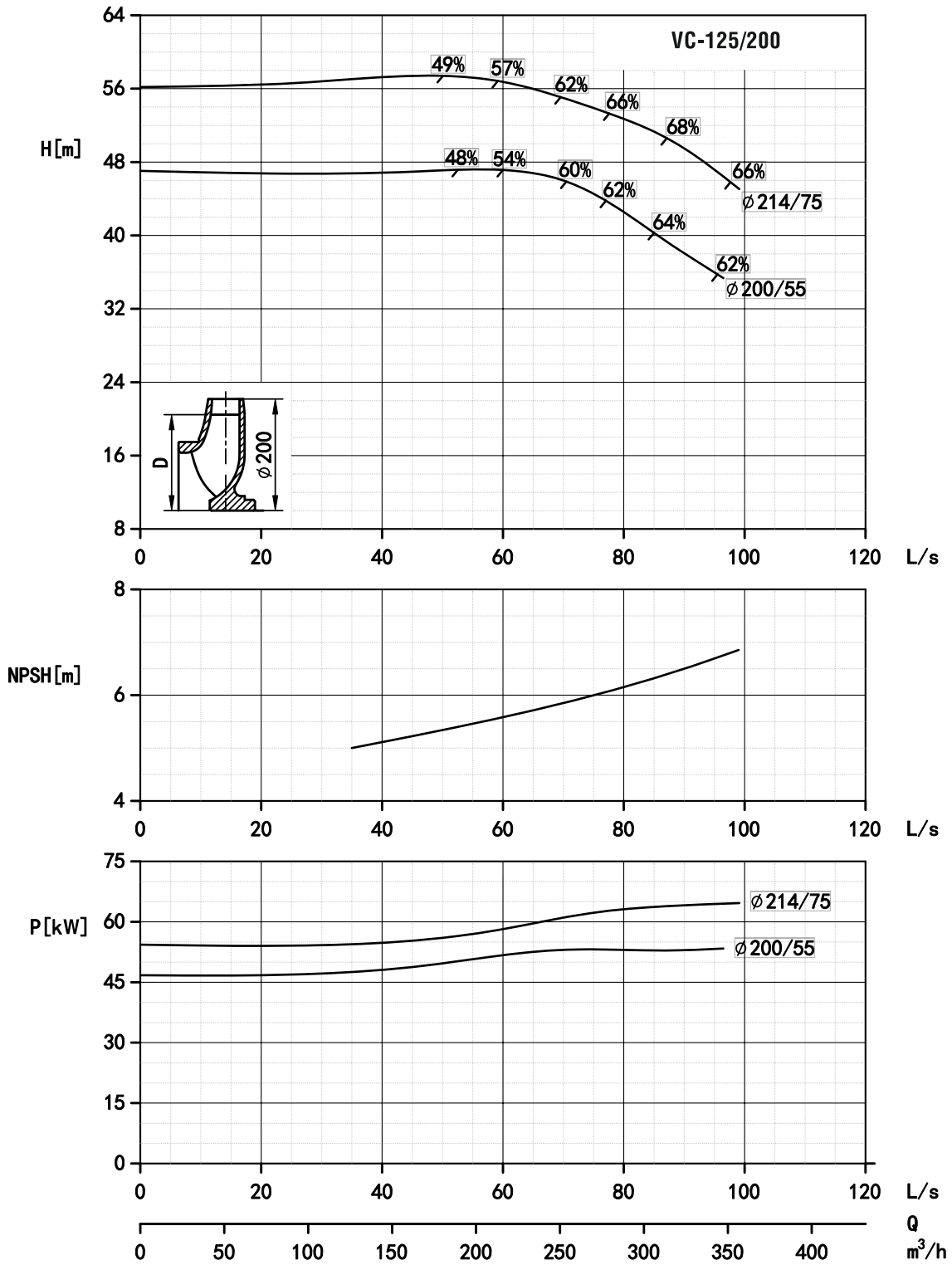
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-125/200

2900rpm



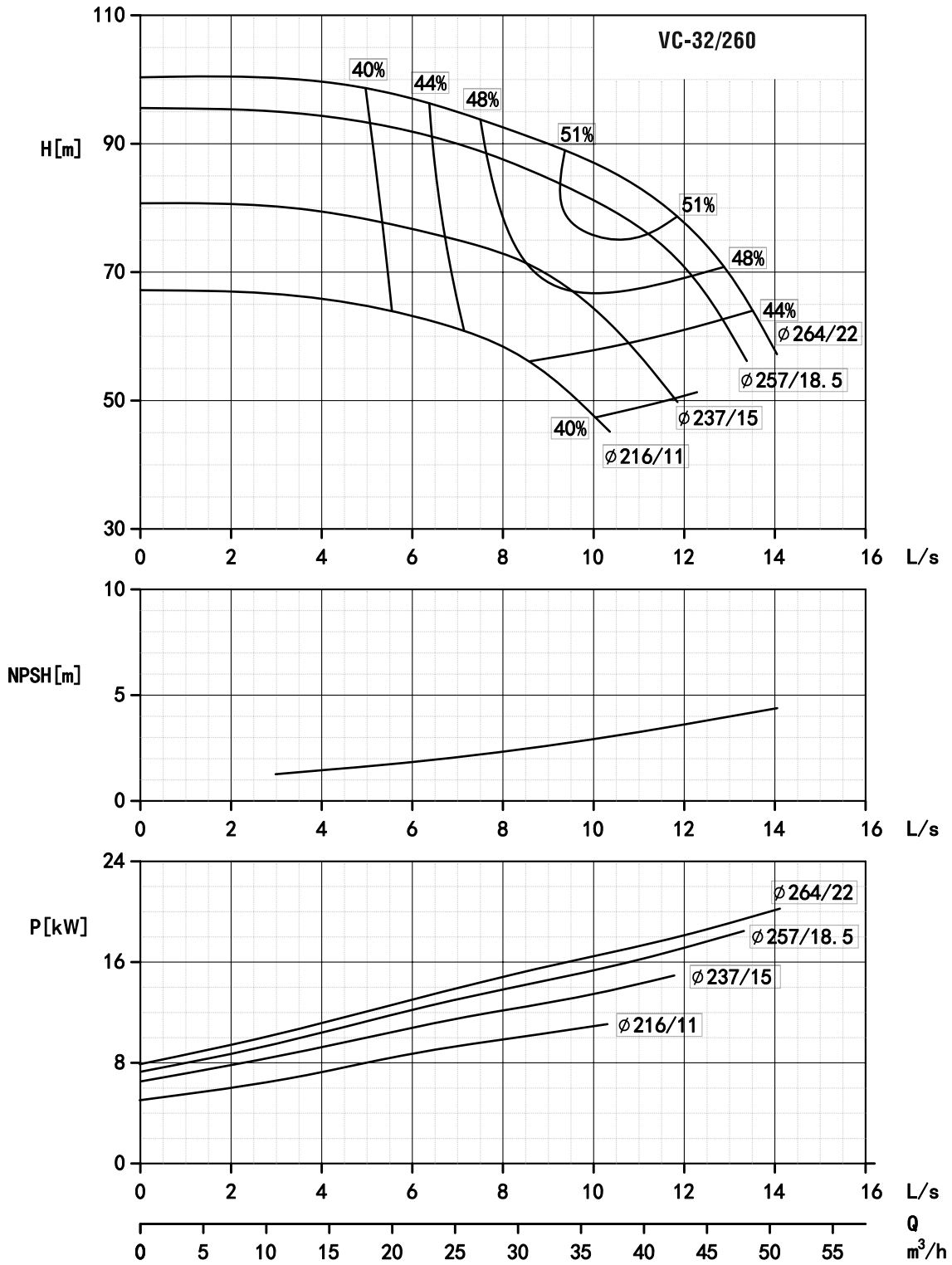
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# Performance Curve

Pump Model : VC-32/260

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

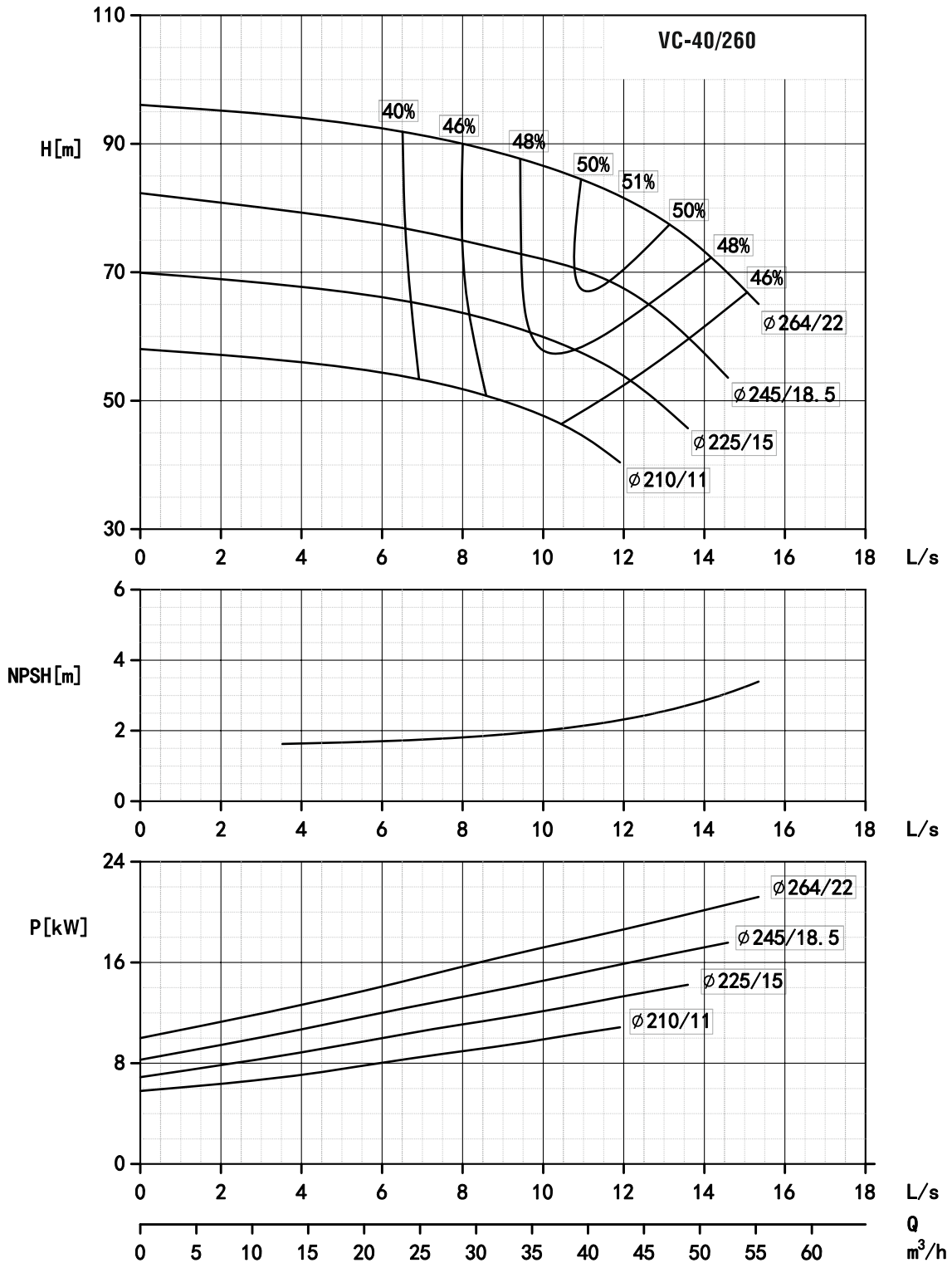
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-40/260

2900rpm



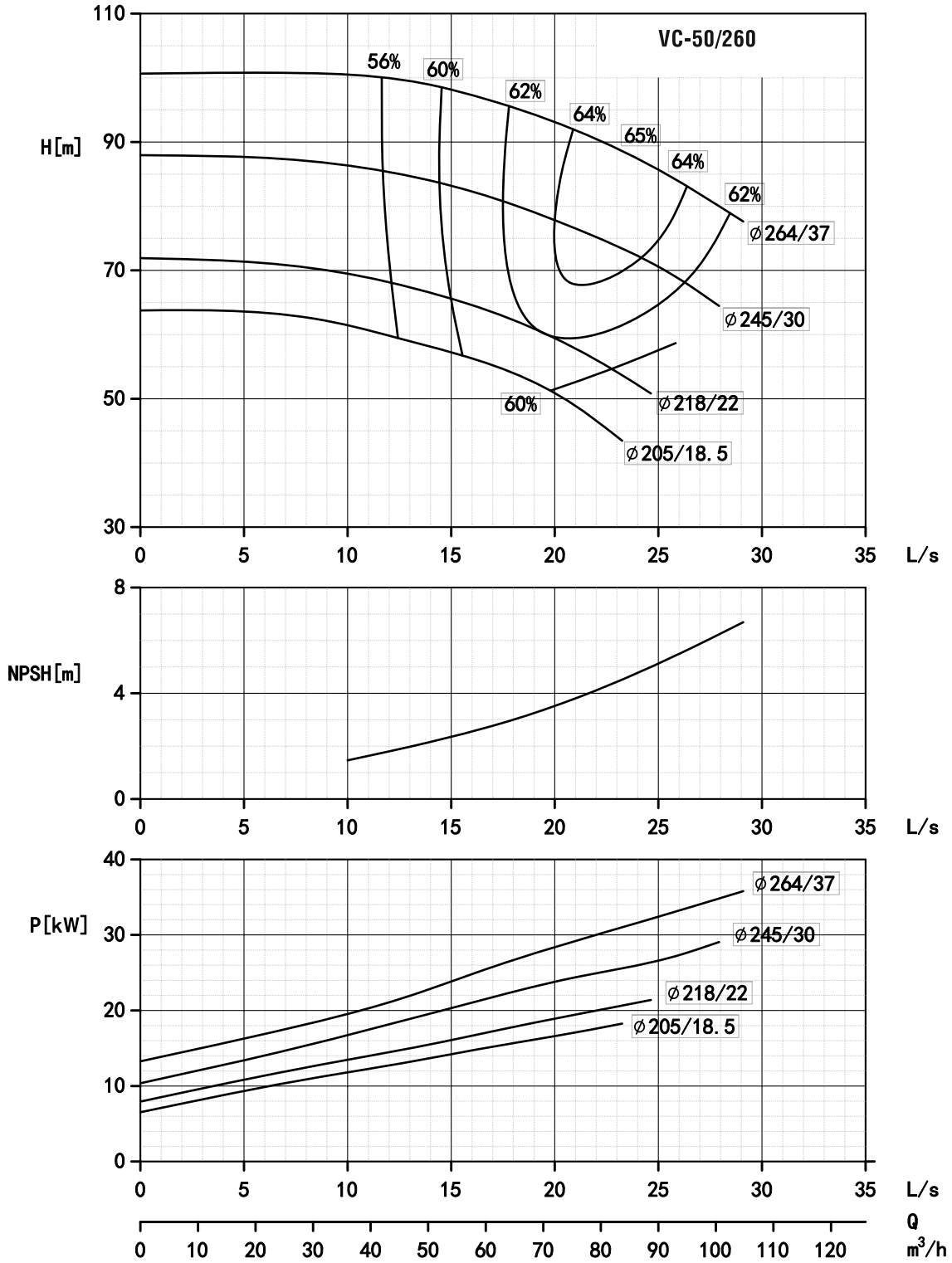
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-50/260

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

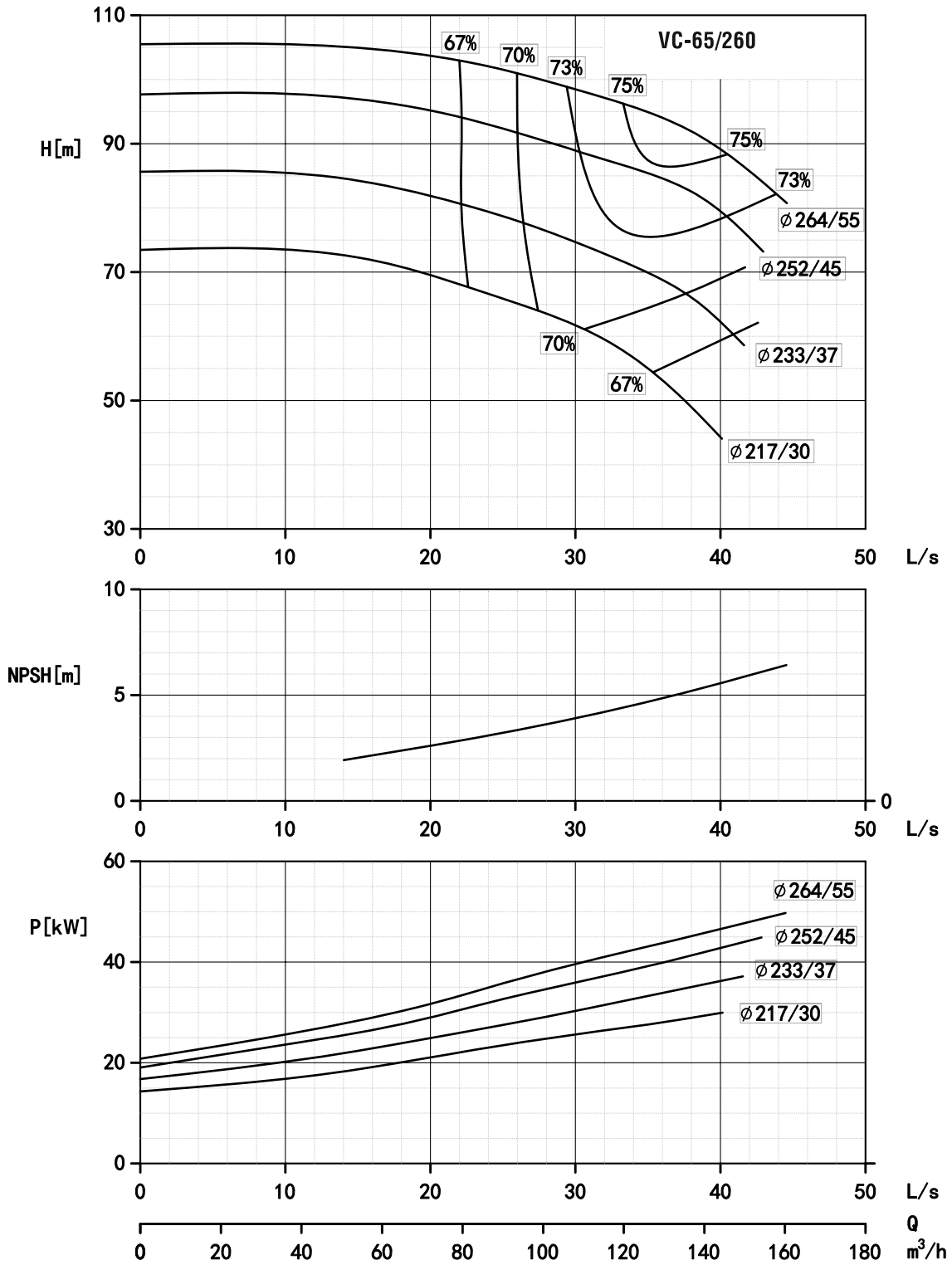


# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-65/260

2900rpm



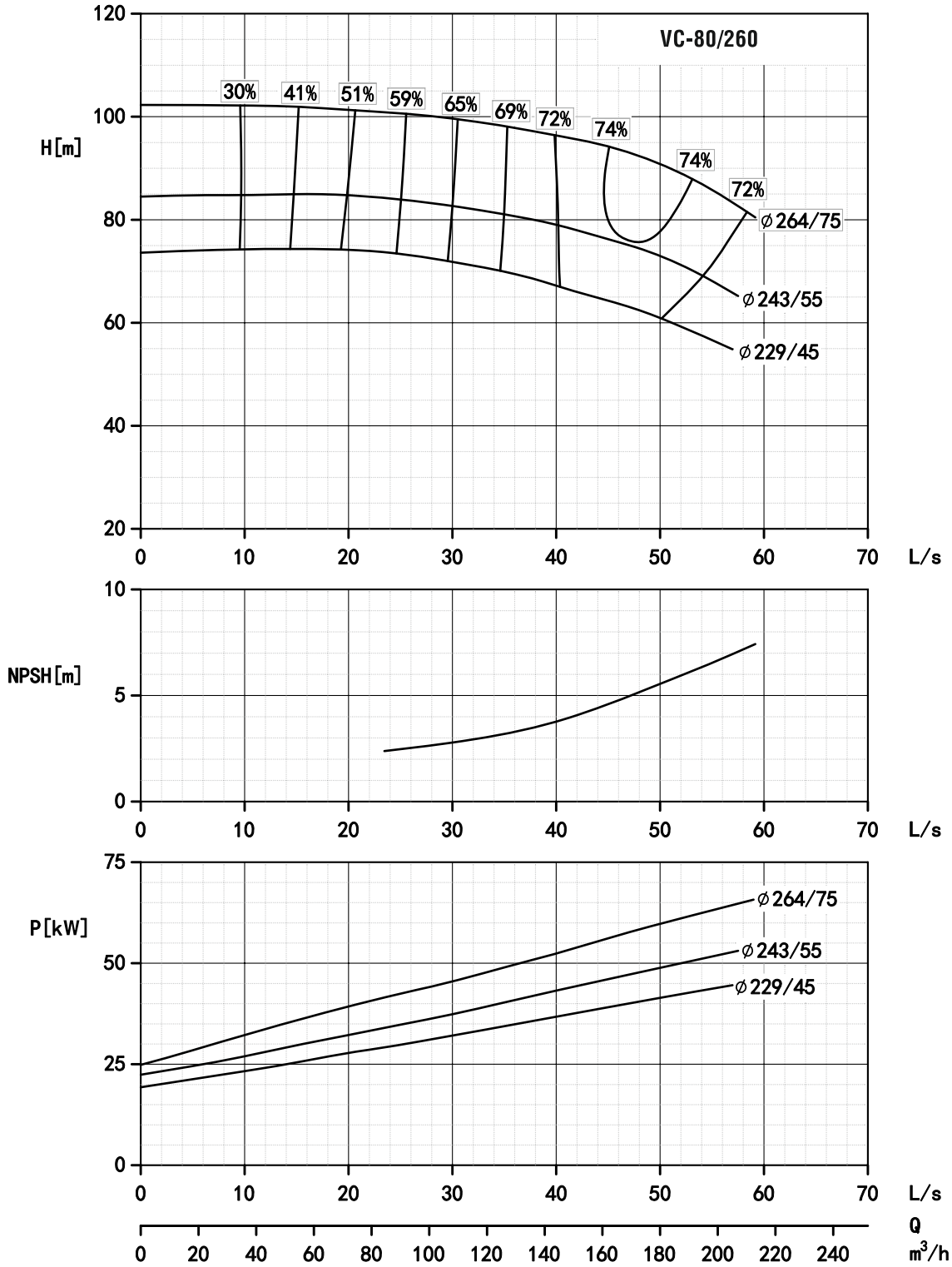
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-80/260

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

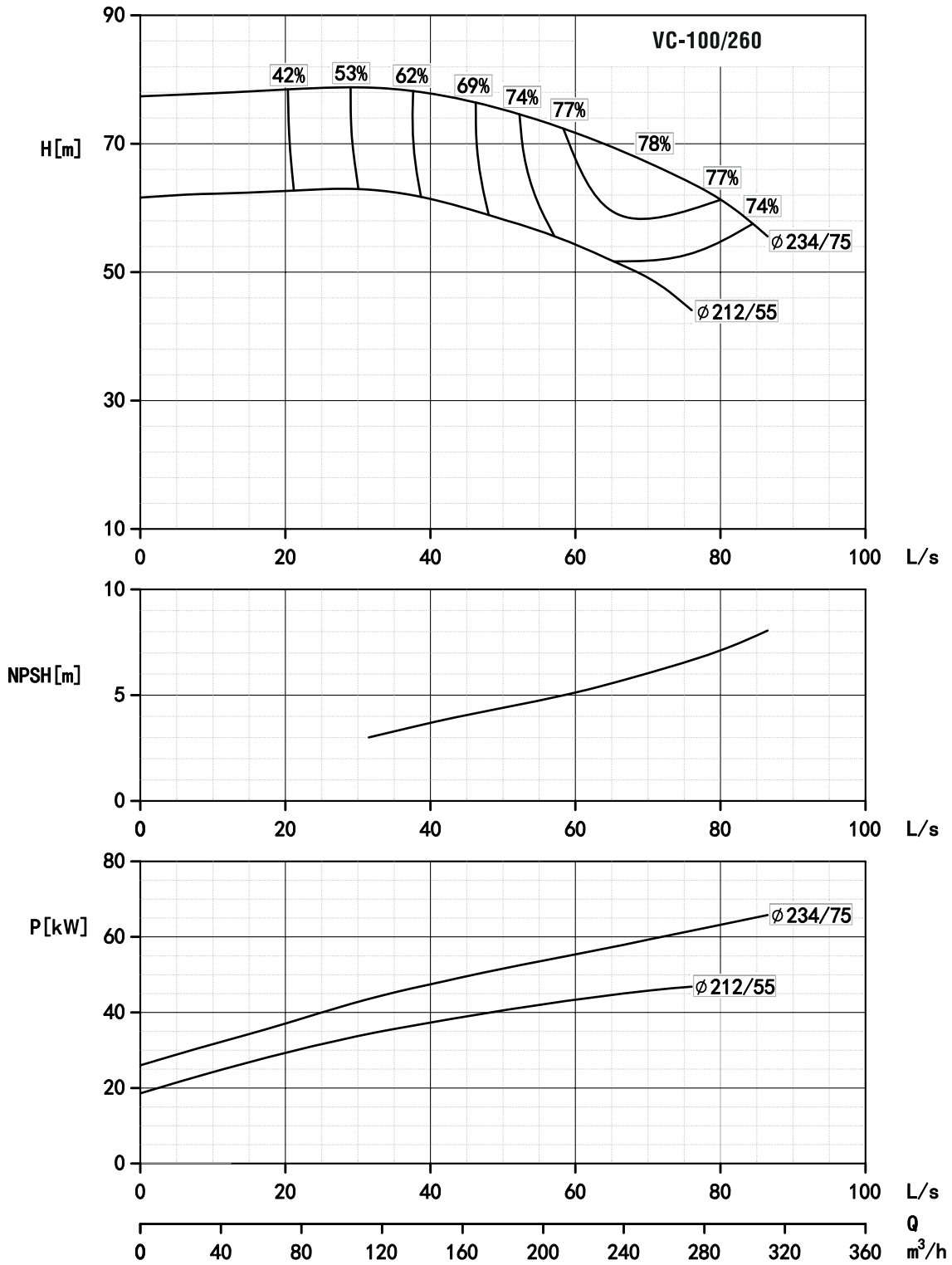
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-100/260

2900rpm



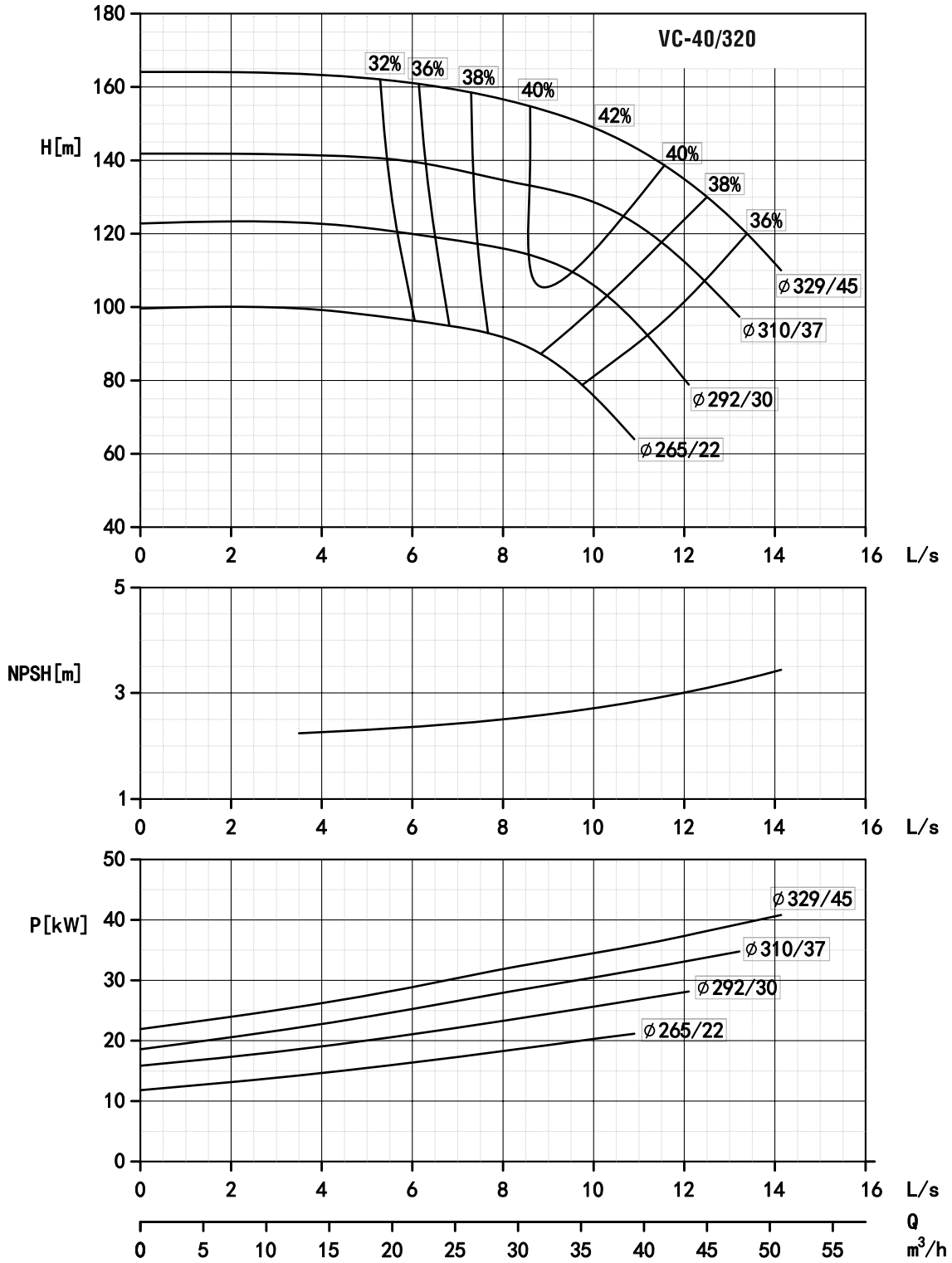
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# Performance Curve

Pump Model : VC-40/320

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

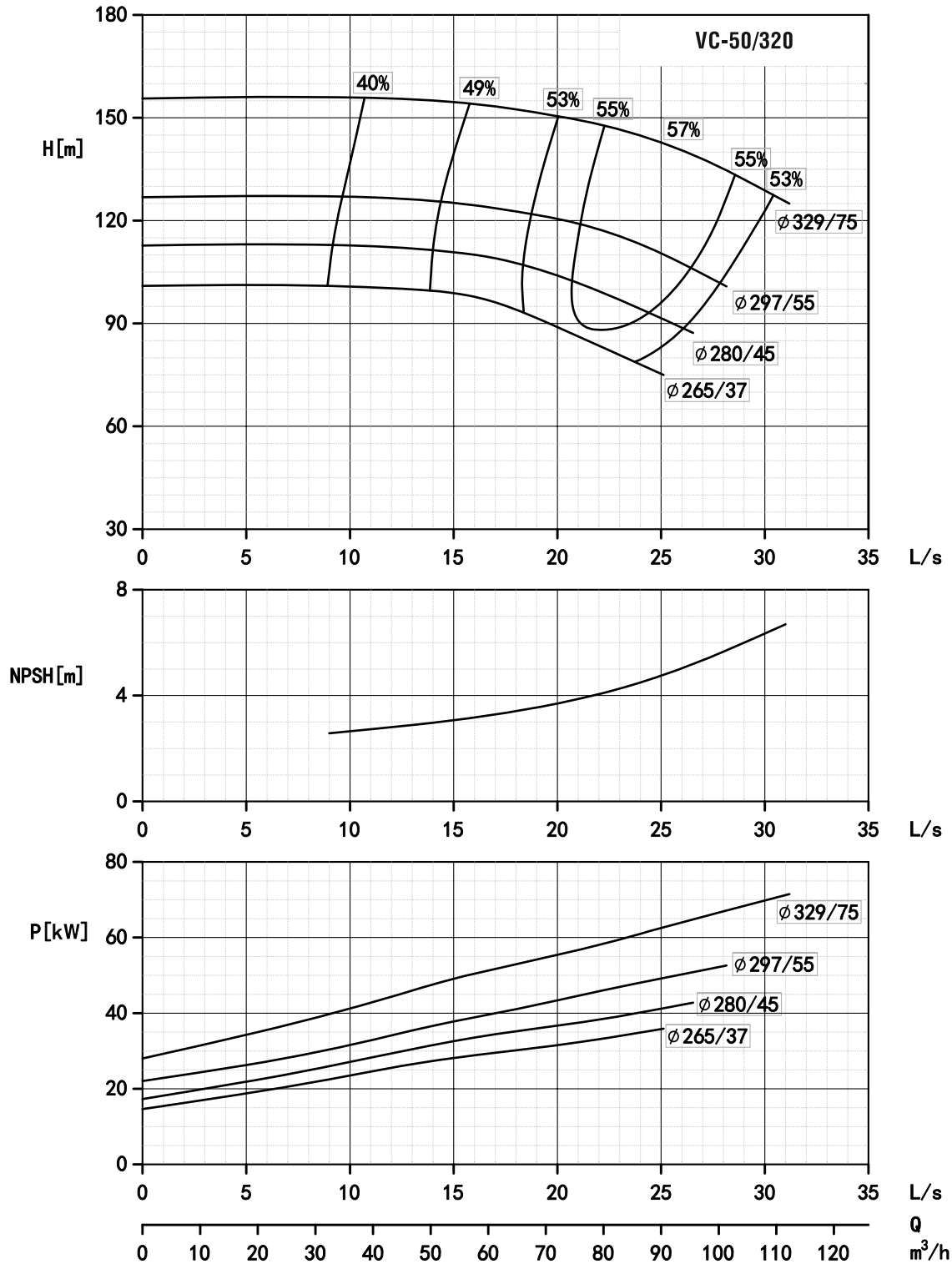
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-50/320

2900rpm



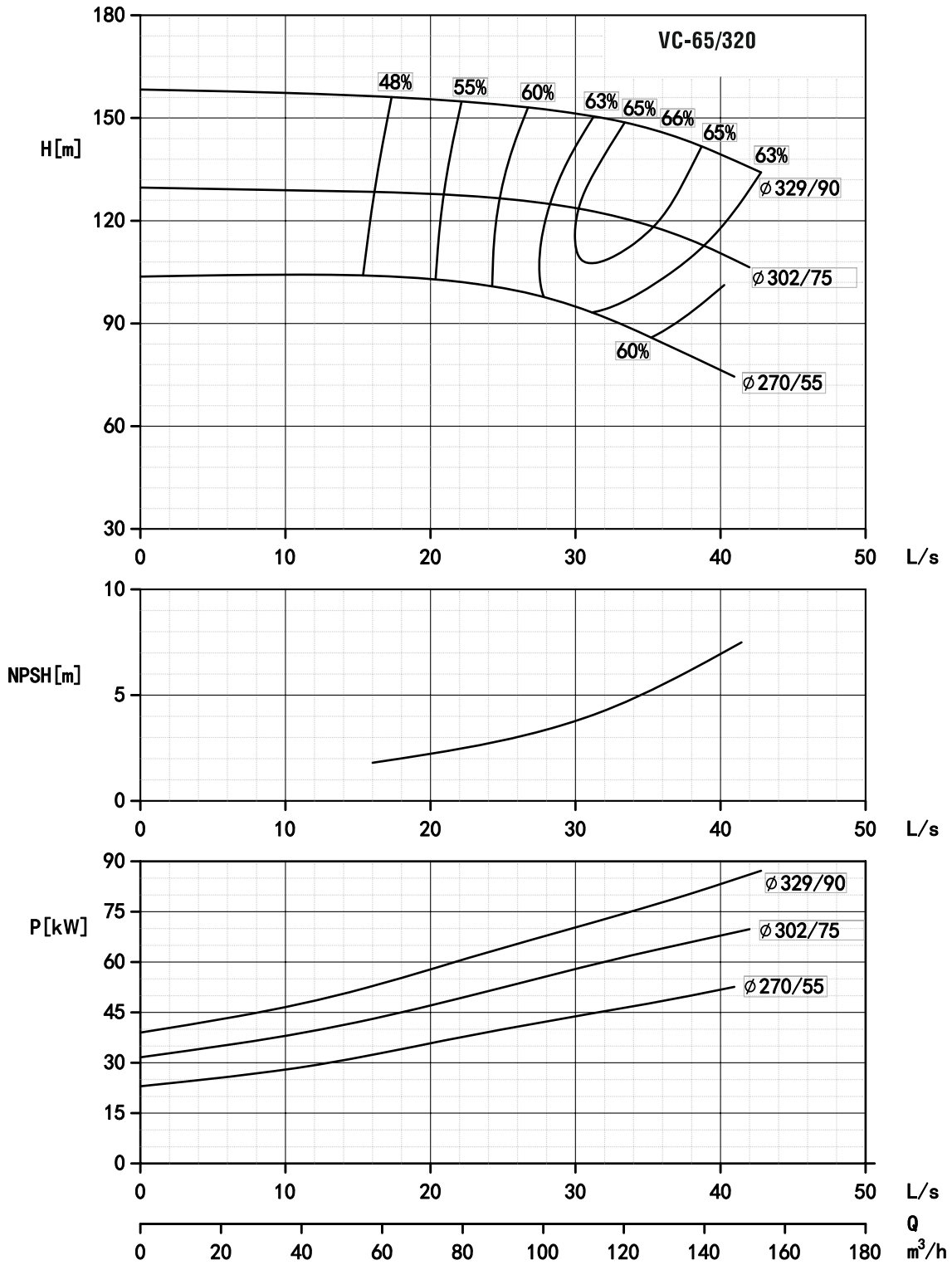
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# Performance Curve

Pump Model : VC-65/320

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

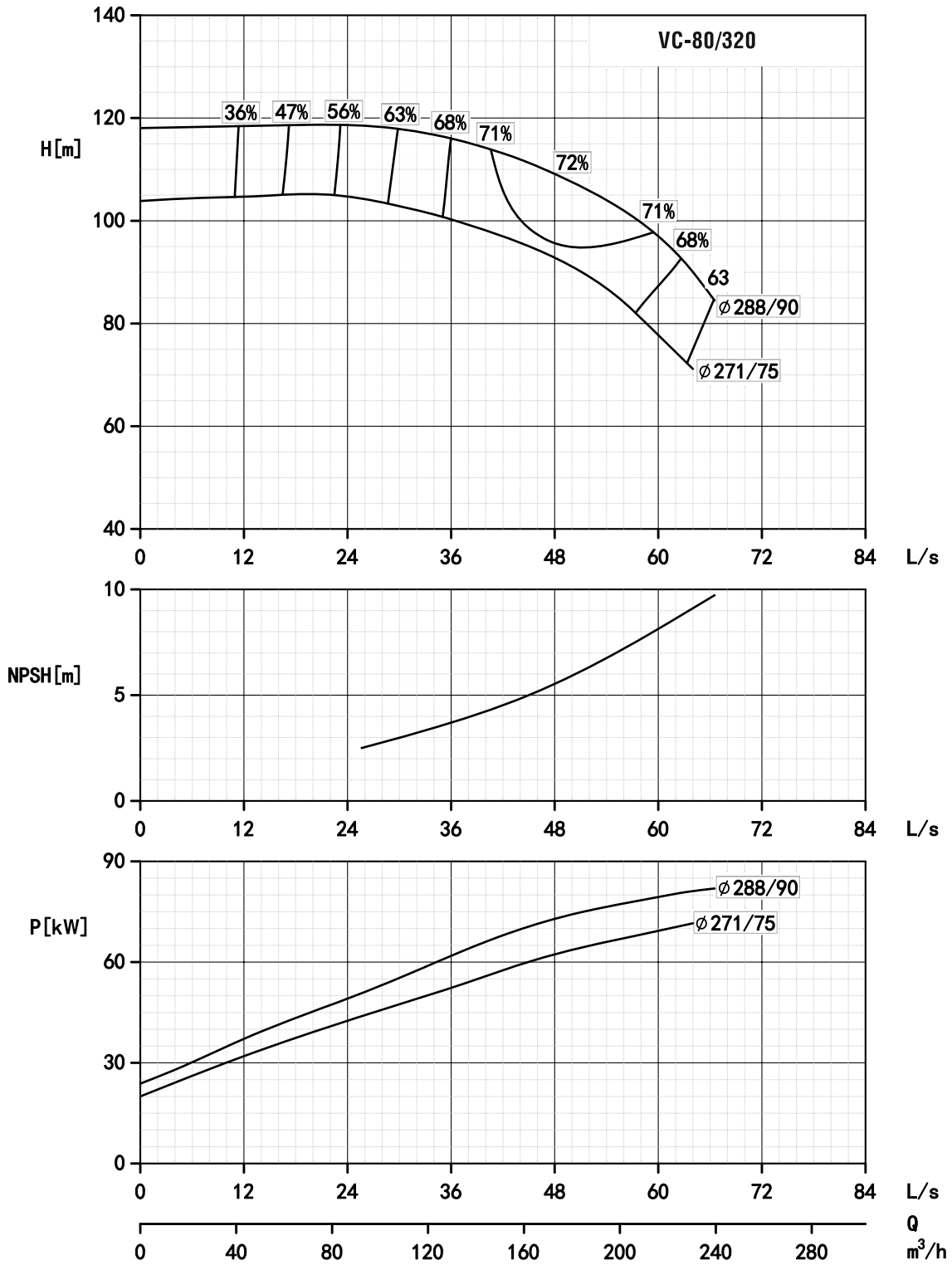
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-80/320

2900rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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4 Pole (1450 rpm)  
Performance Table and Curve



## VERTICAL INLINE PUMPS

## PUMP PERFORMANCE AT BEST EFFICIENCY POINT

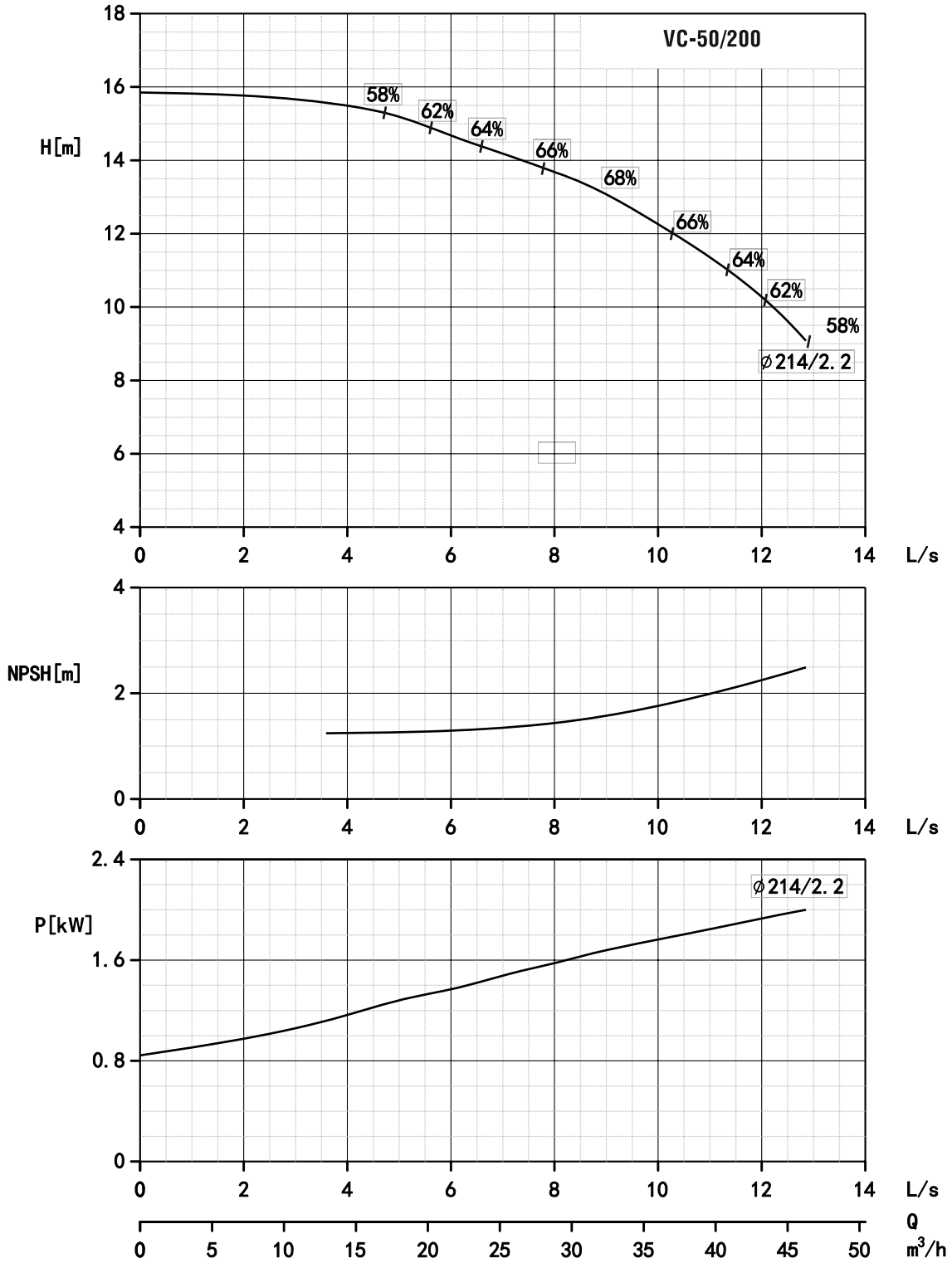
1450 rpm

PUMP MODEL	POWER		PUMP SIZE		SPEED (rpm)	IMPELLER DIA. (mm)	FLOW (lps)	HEAD (m)	EFFICIENCY (%)
	kW	HP	SUCTION (mm)	DELIVERY (mm)					
VC-50/200-22-4-2	2.2	3	65	50	1450	174	9	13	68
VC-65/200-22-4-2	2.2	3	80	65	1450	193	15	10	78
VC-65/200-30-4-2	3	4	80	65	1450	214	16.8	13	79
VC-80/200-40-4-2	4	5.5	100	80	1450	196	26	10.5	81
VC-80/200-55-4-2	5.5	7.5	100	80	1450	214	29	12.8	84
VC-100/200-55-4-2	5.5	7.5	125	100	1450	198	36	10	80
VC-100/200-75-4-2	7.5	10	125	100	1450	208	40	13	81
VC-125/200-110-4-2	11	15	150	125	1450	214	60	12	78
VC-150/200-150-4-2	15	20	200	150	1450	214	100	11.2	77
VC-32/260(225)-22-4-2	2.2	3	50	32	1450	225	4.5	14	49
VC-32/260(264)-22-4-2	2.2	3	50	32	1450	264	5	20	54
VC-40/260(215)-22-4-2	2.2	3	65	40	1450	215	5	12	46
VC-40/260(248)-22-4-2	2.2	3	65	40	1450	248	5.6	16.5	51
VC-40/260-30-4-2	3	4	65	40	1450	264	6	19	53
VC-50/260-22-4-2	2.2	3	65	50	1450	205	8.5	13.2	61
VC-50/260-30-4-2	3	4	65	50	1450	225	9.5	16	64
VC-50/260-40-4-2	4	5.5	65	50	1450	252	10.5	19	66
VC-50/260-55-4-2	5.5	7.5	65	50	1450	264	11	21	68
VC-65/260-40-4-2	4	5.5	80	65	1450	230	16	16	74
VC-65/260-55-4-2	5.5	7.5	80	65	1450	253	17	19.5	75
VC-65/260-75-4-2	7.5	10	80	65	1450	264	18.5	21.5	75.5
VC-80/260-55-4-2	5.5	7.5	100	80	1450	230	25	14.8	73
VC-80/260-75-4-2	7.5	10	100	80	1450	250	26	18	76
VC-80/260-110-4-2	11	15	100	80	1450	264	28	21	77
VC-100/260-110-4-2	11	15	125	100	1450	239	36	17	78
VC-100/260-150-4-2	15	20	125	100	1450	264	42	22	79
VC-125/260-110-4-2	11	15	150	125	1450	220	54	13.8	76
VC-125/260-150-4-2	15	20	150	125	1450	235	57	16	78
VC-125/260-185-4-2	18.5	25	150	125	1450	248	62	18.2	79
VC-125/260-220-4-2	22	30	150	125	1450	264	70	21	81
VC-150/260-185-4-2	18.5	25	200	150	1450	239	70	16	77
VC-150/260-220-4-2	22	30	200	150	1450	250	80	19	79
VC-150/260-300-4-2	30	40	200	150	1450	264	85	21	80
VC-40/320(260)-30-4-2	3	4	65	40	1450	260	4.1	19.8	38
VC-40/320(278)-30-4-2	3	4	65	40	1450	278	4	23	38
VC-40/320-40-4-2	4	5.5	65	40	1450	306	5	28	40
VC-40/320-55-4-2	5.5	7.5	65	40	1450	329	5.4	33	42
VC-50/320-55-4-2	5.5	7.5	65	50	1450	283	11	24	54
VC-50/320-75-4-2	7.5	10	65	50	1450	308	12	28	56.5
VC-50/320-110-4-2	11	7.5	65	50	1450	329	14	33	58
VC-65/320-55-4-2	5.5	7.5	65	50	1450	263	13	22	61
VC-65/320-75-4-2	7.5	10	65	50	1450	294	16.5	26	65
VC-65/320-110-4-2	11	15	65	50	1450	329	20	34	66
VC-80/320-110-4-2	11	15	100	80	1450	285	27	24	72
VC-80/320-150-4-2	15	20	100	80	1450	313	30	30	73
VC-80/320-185-4-2	18.5	25	100	80	1450	329	32	22	73
VC-100/320-150-4-2	15	20	125	100	1450	290	32	27.8	73
VC-100/320-185-4-2	18.5	25	125	100	1450	310	36	32	74
VC-100/320-220-4-2	22	30	125	100	1450	329	39	36	75
VC-125/320-220-4-2	22	30	150	125	1450	290	53	25	81
VC-125/320-300-4-2	30	40	150	125	1450	312	64	30	81
VC-125/320-370-4-2	37	50	150	125	1450	329	70	32.5	82
VC-150/320-300-4-2	30	40	200	150	1450	292	80	24	80
VC-150/320-370-4-2	37	50	200	150	1450	303	88	29	91
VC-150/320-450-4-2	45	60	200	150	1450	320	95	33	81
VC-150/320-550-4-2	55	75	200	150	1450	329	100	34.2	82
VC-80/400-185-4-2	18.5	25	100	80	1450	342	22	36	64
VC-80/400-220-4-2	22	30	100	80	1450	362	25.5	41	54
VC-80/400-300-4-2	30	40	100	80	1450	409	29	52	64
VC-100/400-220-4-2	22	30	125	100	1450	345	39	32	69
VC-100/400-300-4-2	30	40	125	100	1450	376	39	40	70
VC-100/400-370-4-2	37	50	125	100	1450	395	44	48	71
VC-100/400-450-4-2	45	60	150	125	1450	409	45	53	72
VC-125/400-370-4-2	37	50	150	125	1450	340	60	37.8	72
VC-125/400-450-4-2	45	60	150	125	1450	365	63	43	73
VC-125/400-550-4-2	55	75	150	125	1450	383	68	49	75
VC-125/400-750-4-2	75	100	150	125	1450	409	73	55	76

# Performance Curve

Pump Model : VC-50/200

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

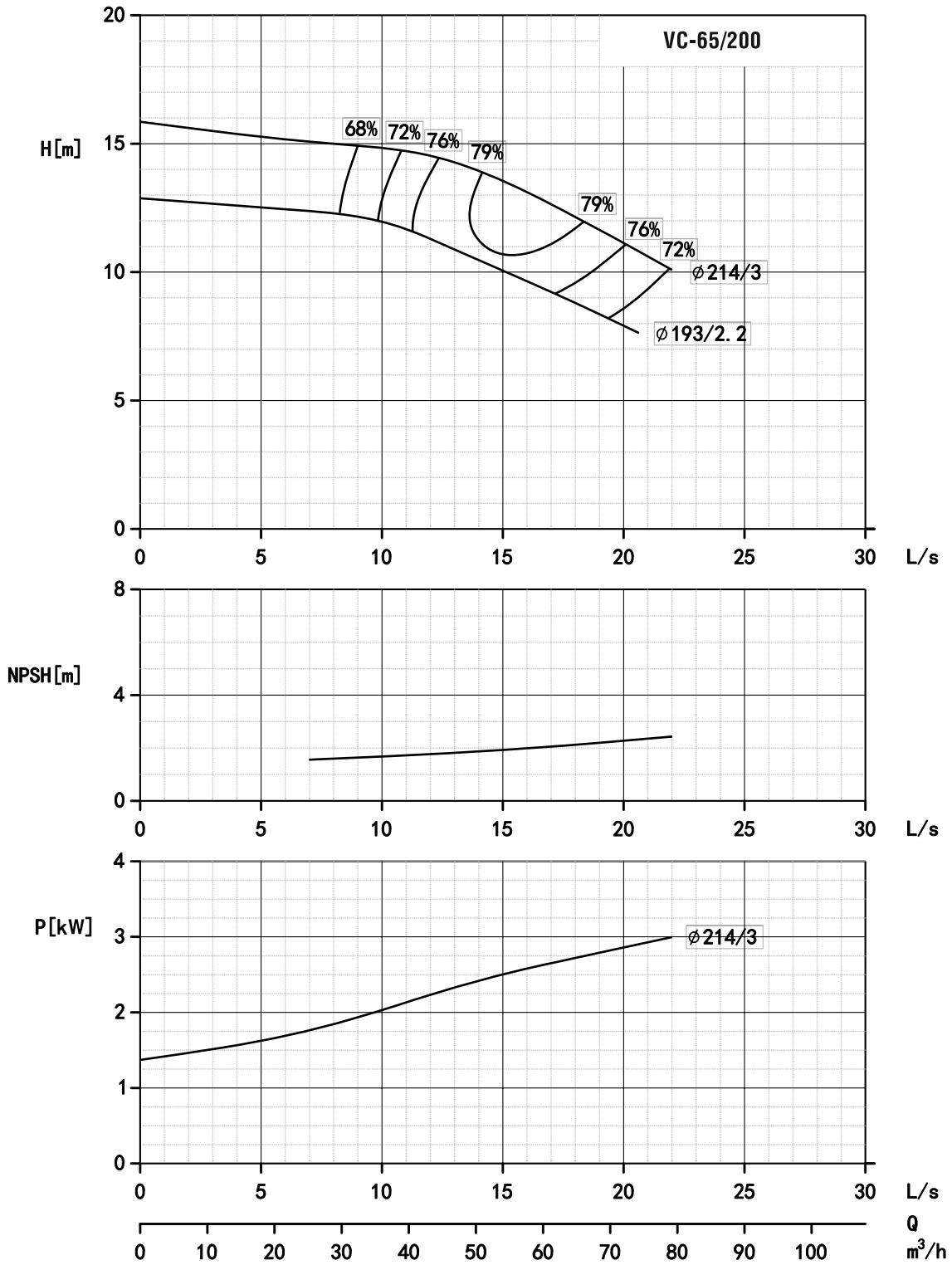
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# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-65/200

1450rpm



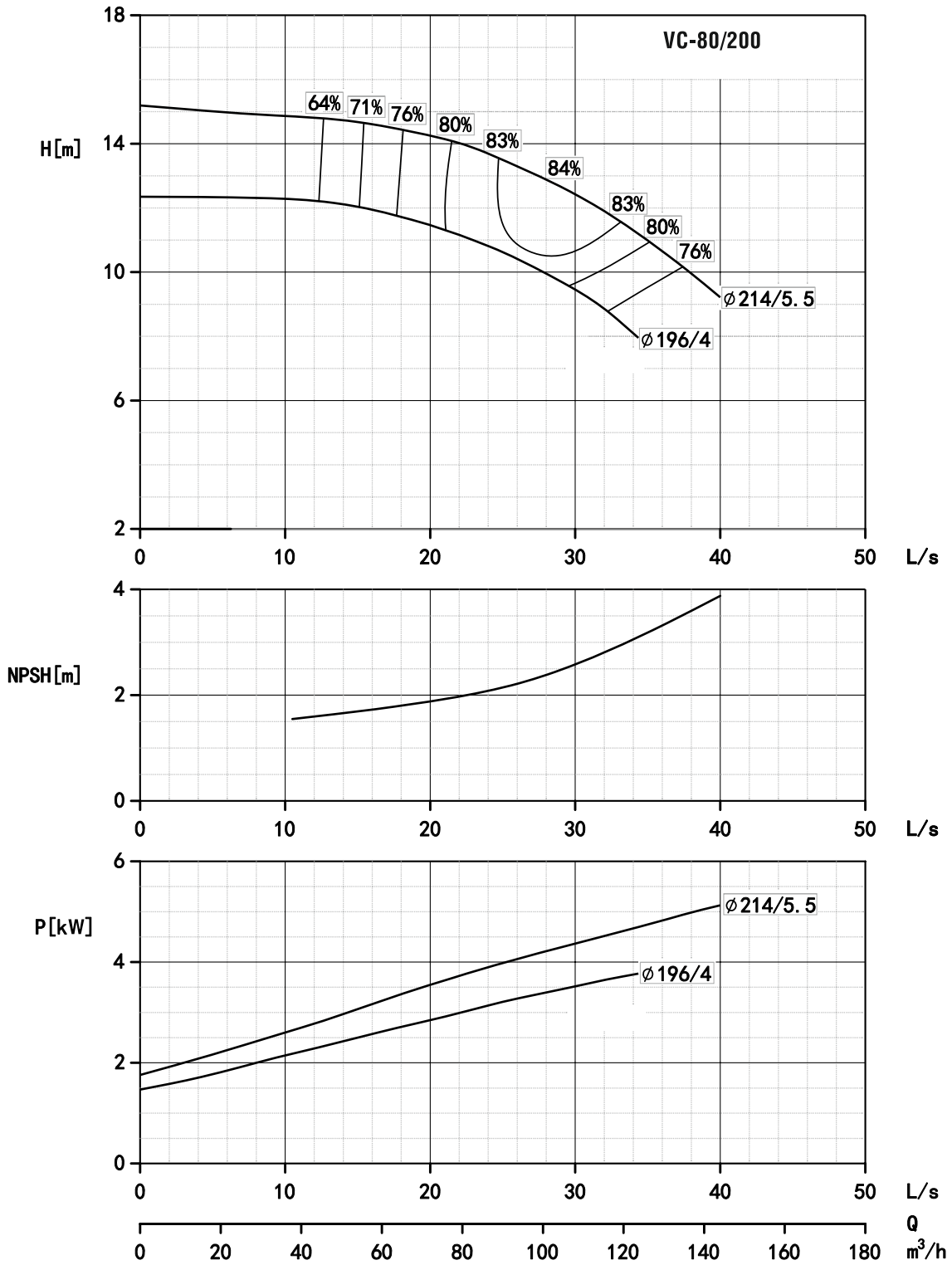
Performance to tolerance as per ISO 9906 Grade 2B.  
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# Performance Curve

Pump Model : VC-80/200

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

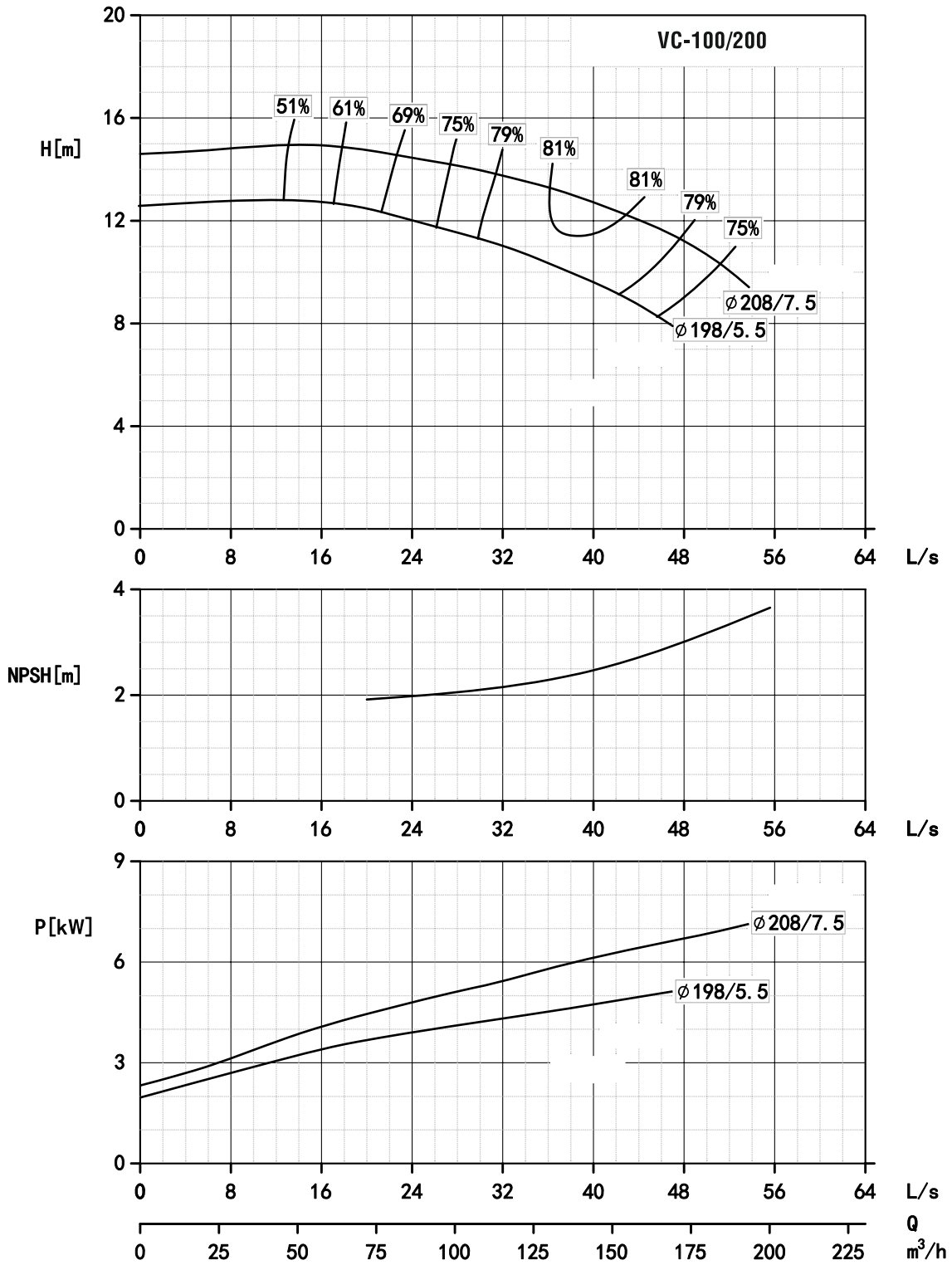
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# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-100/200

1450rpm



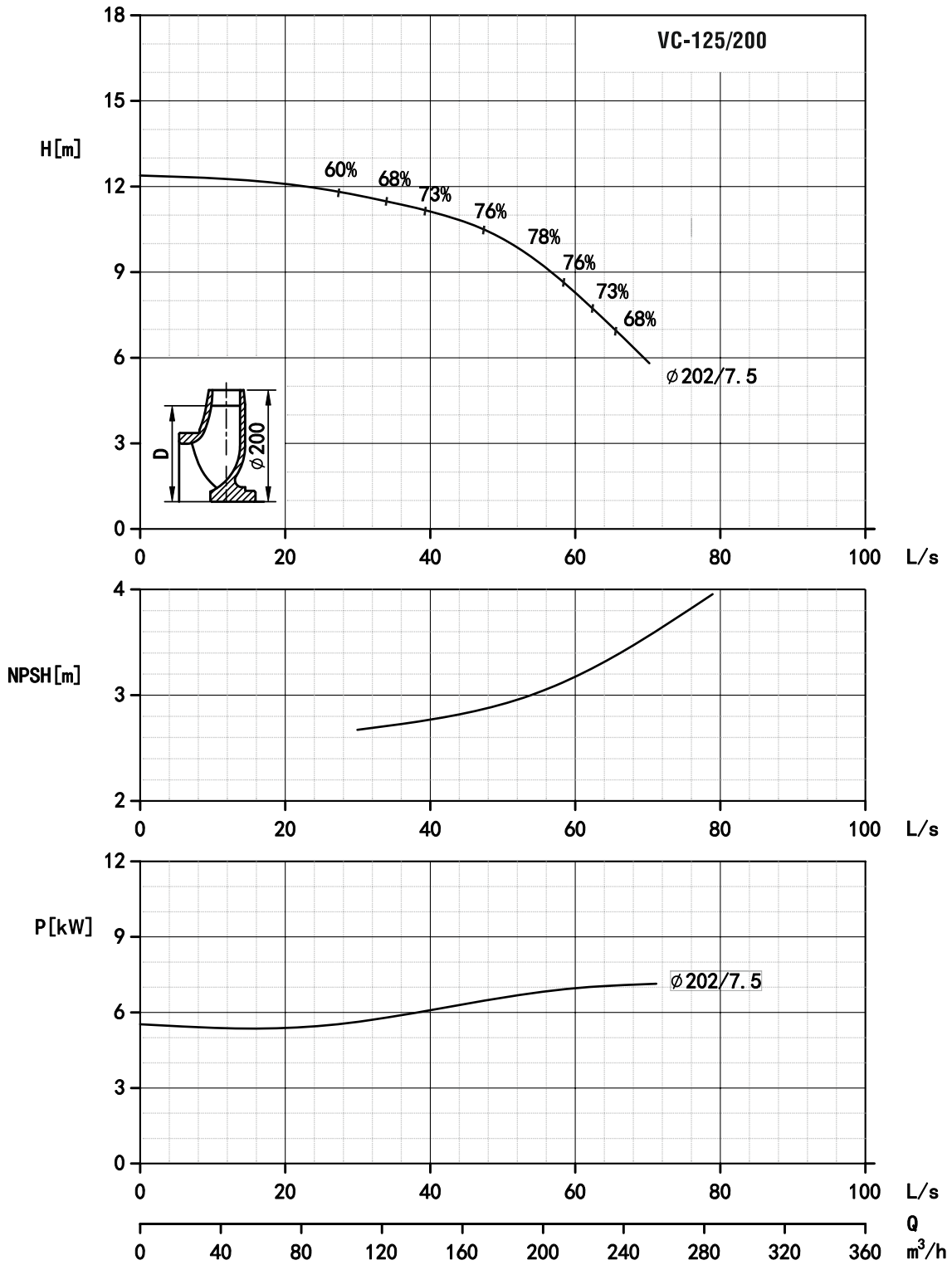
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-125/200

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

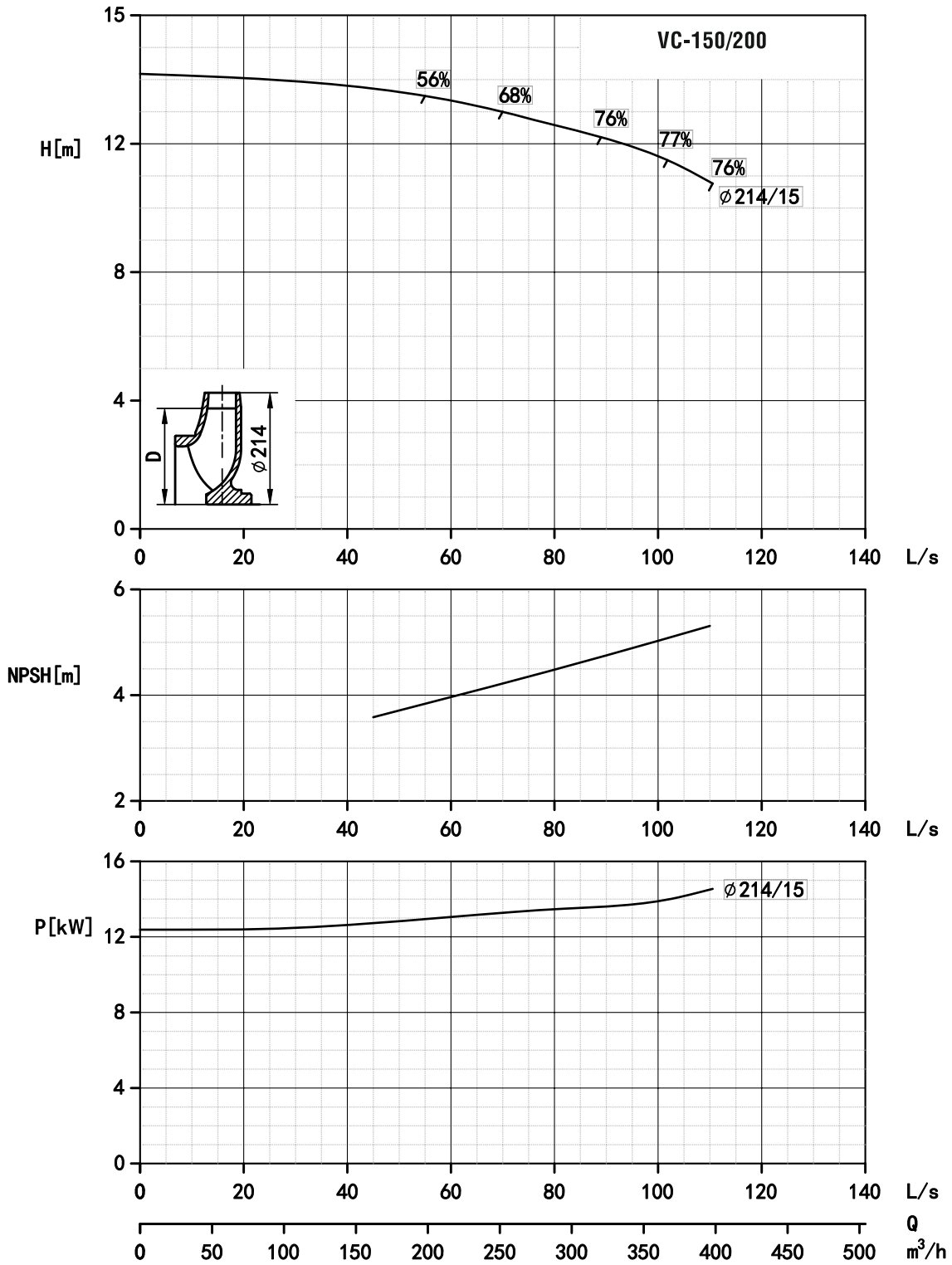
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# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-150/200

1450rpm



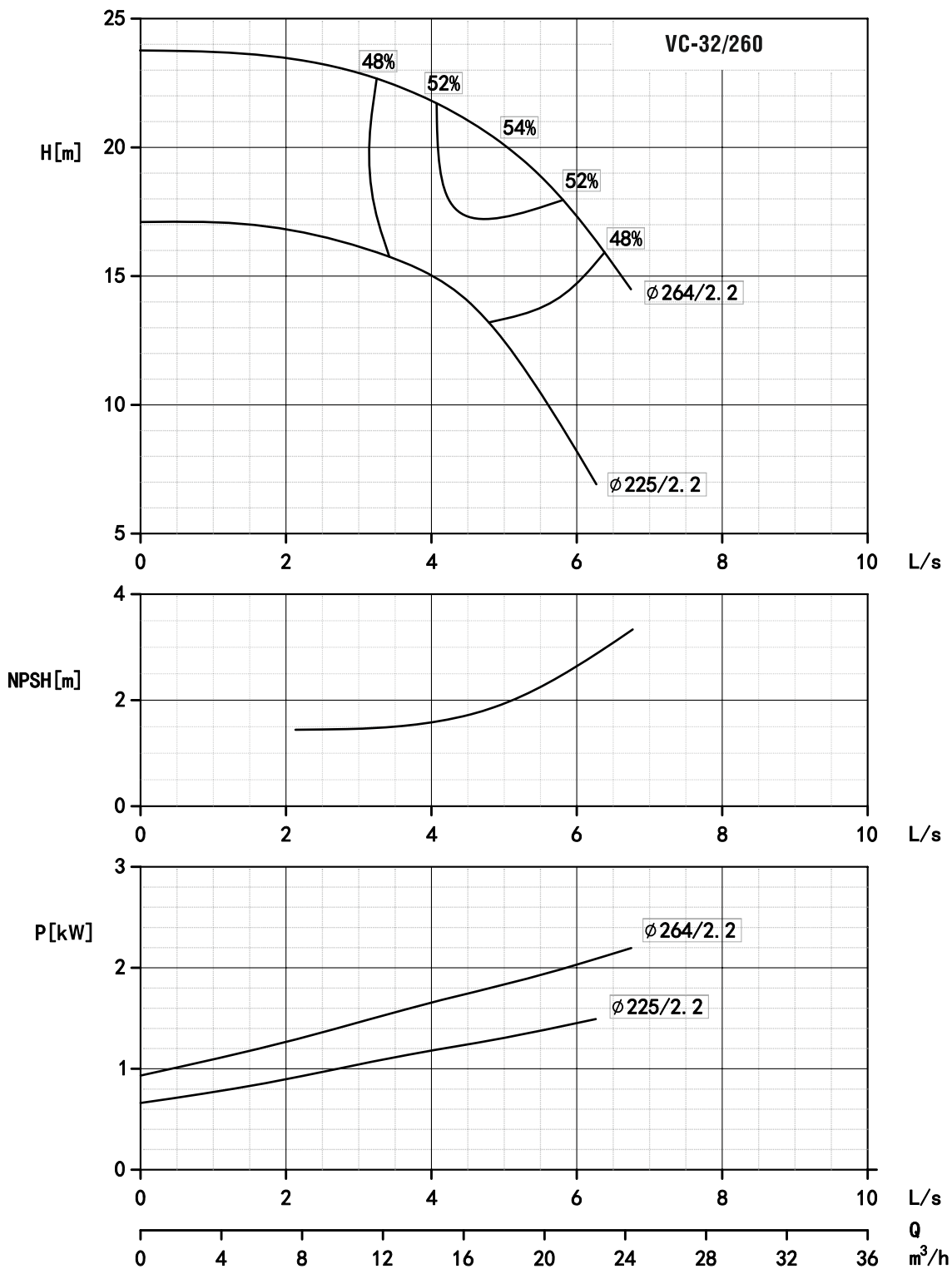
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-32/260

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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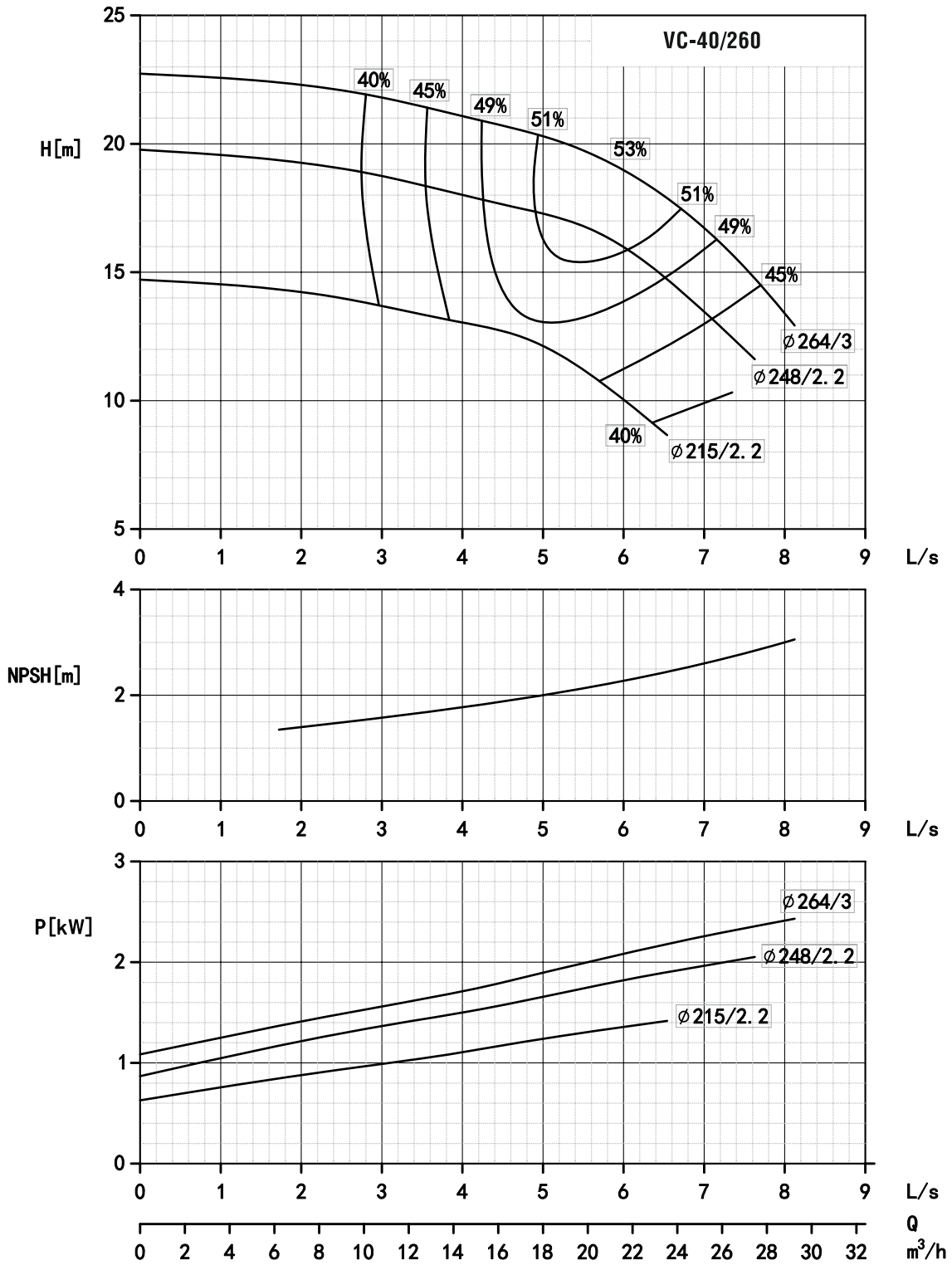


# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-40/260

1450rpm



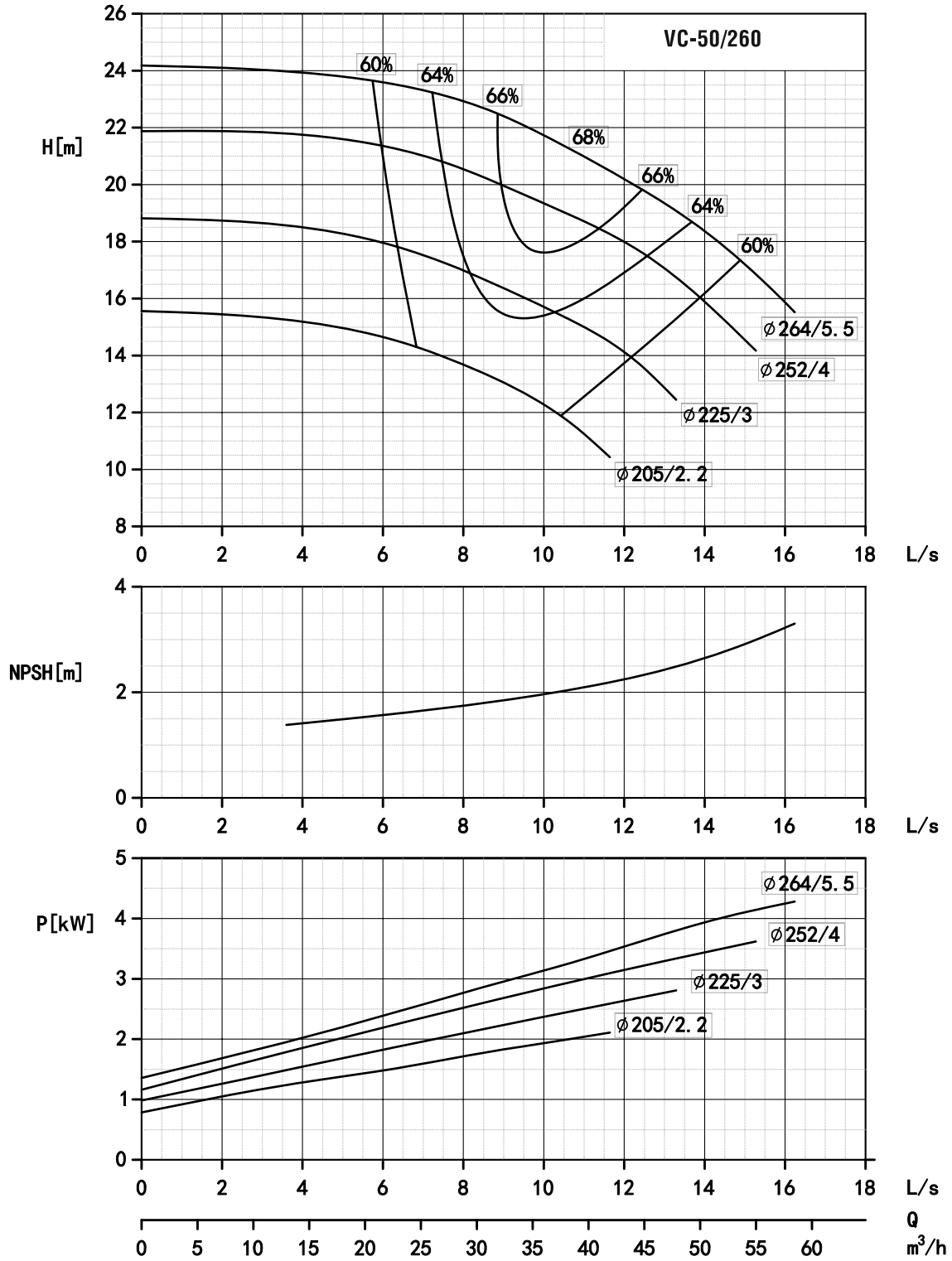
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-50/260

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

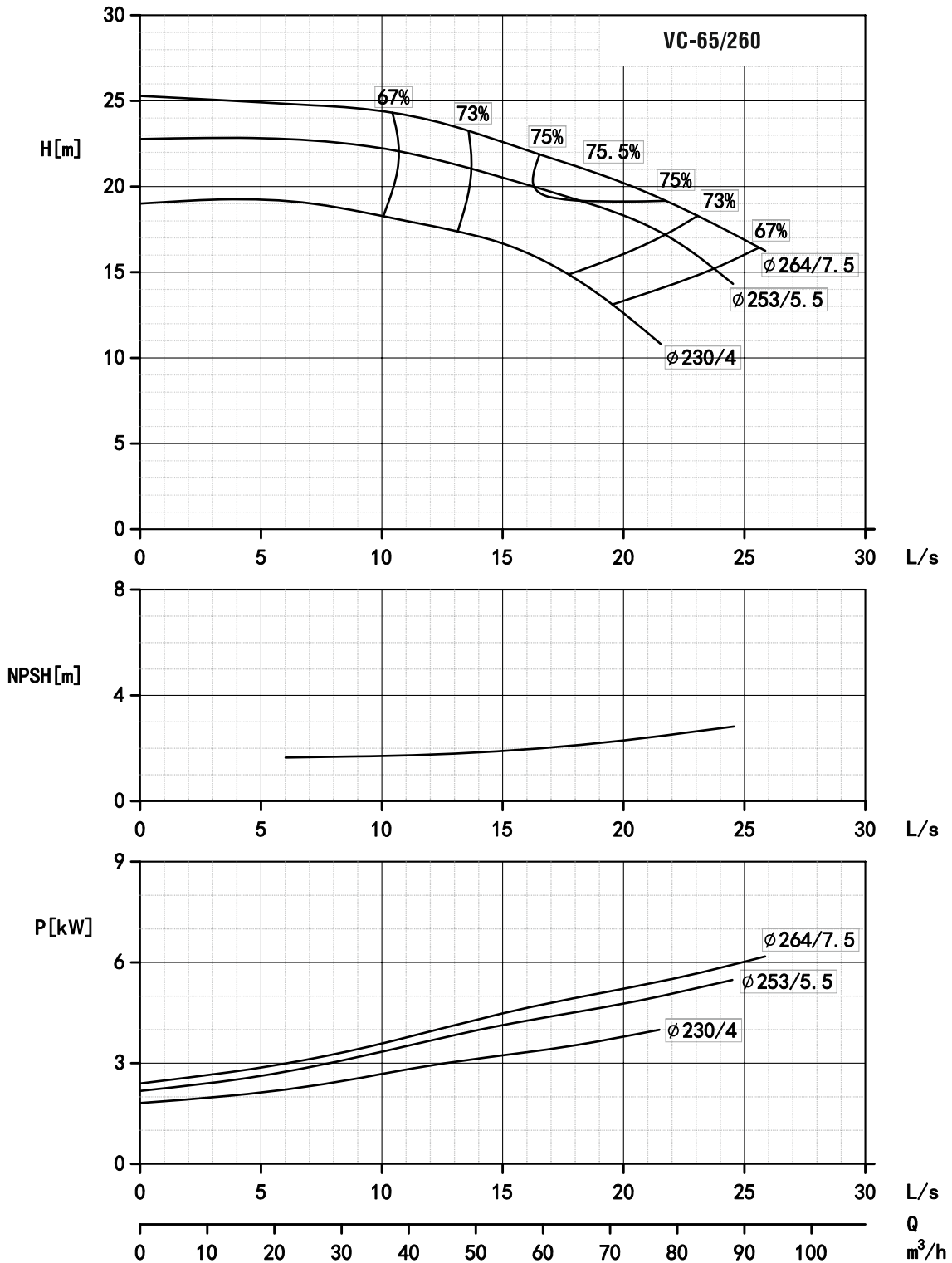
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-65/260

1450rpm



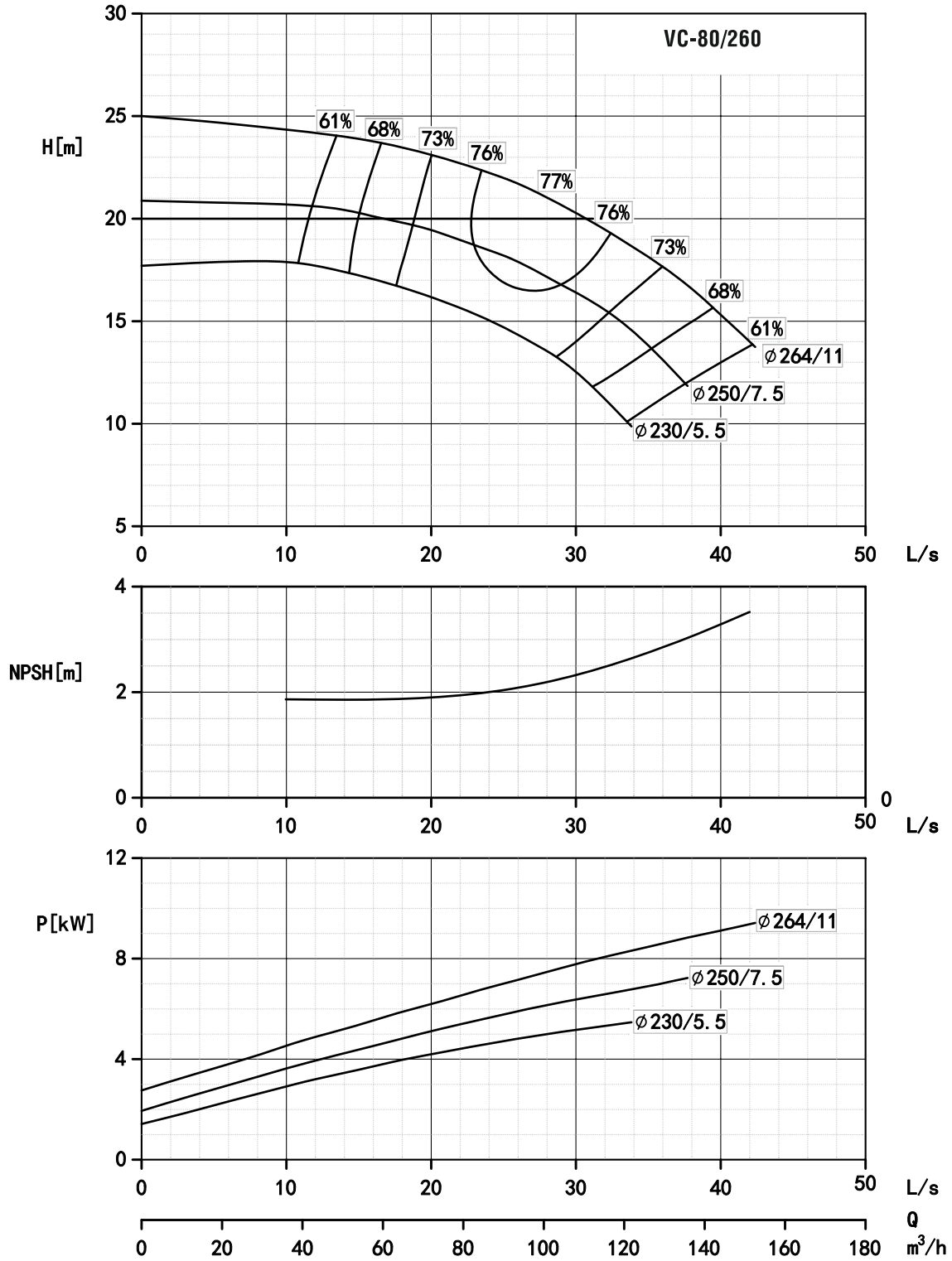
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-80/260

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

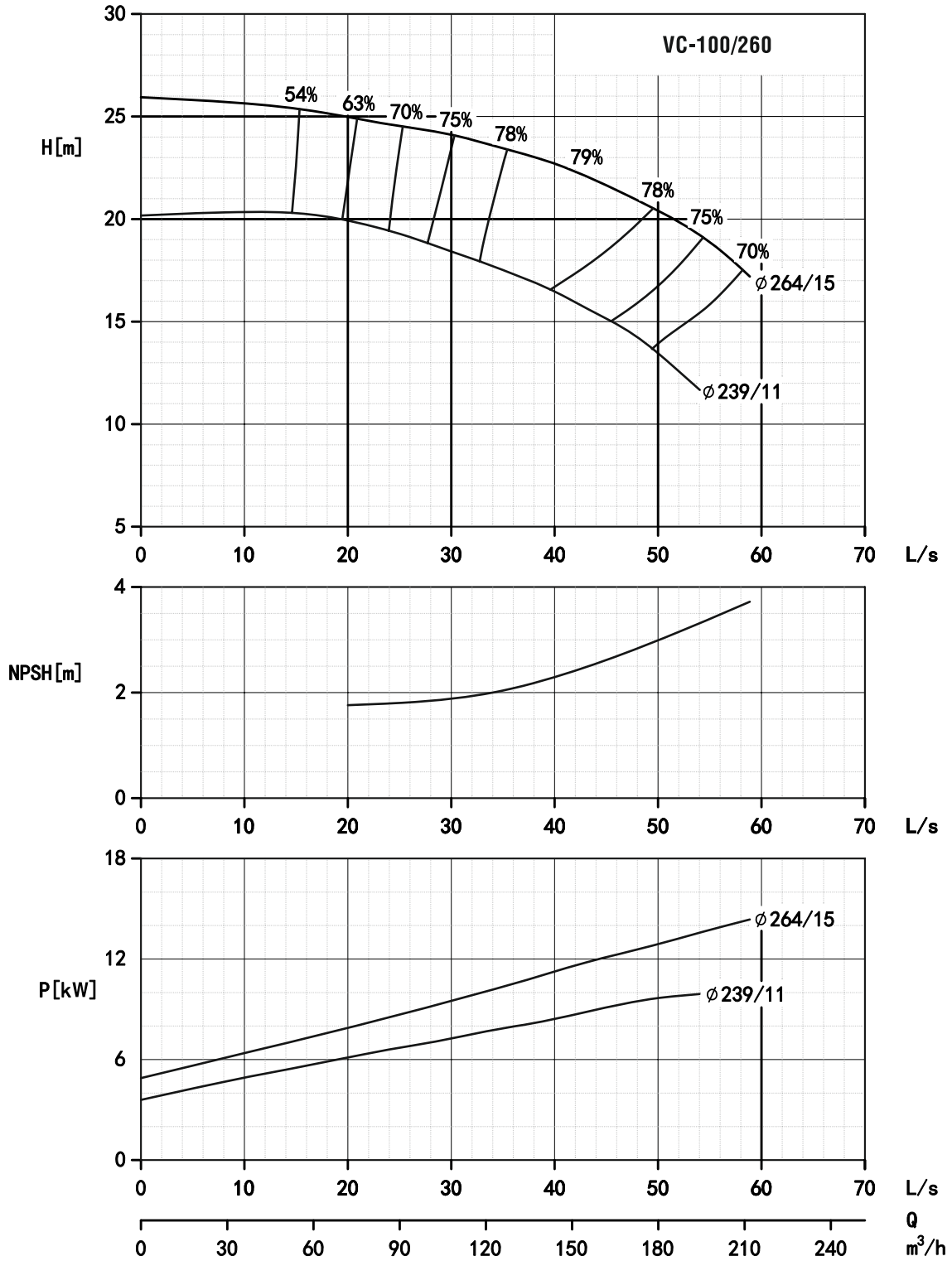
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-100/260

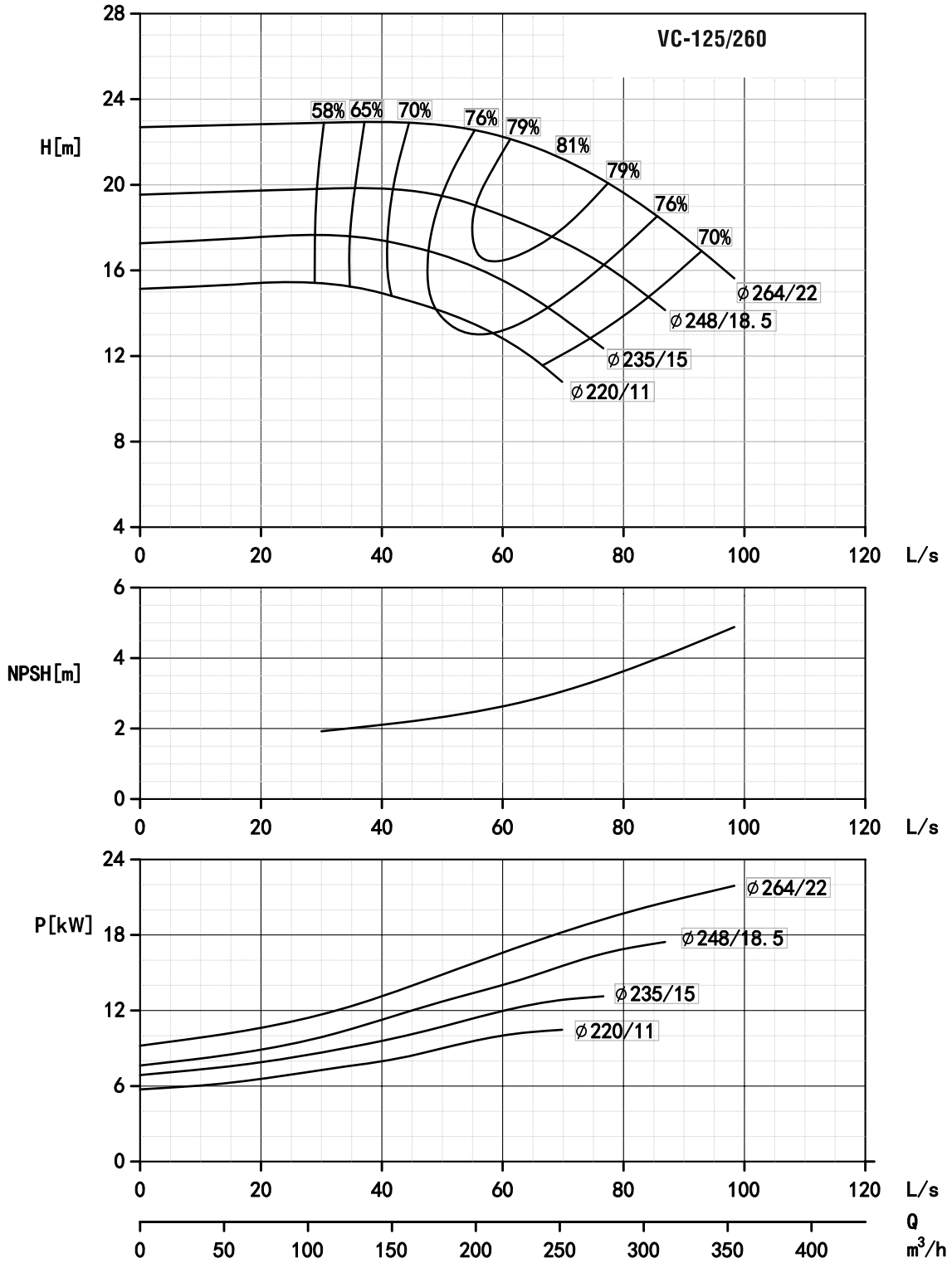
1450rpm



# Performance Curve

Pump Model : VC-125/260

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

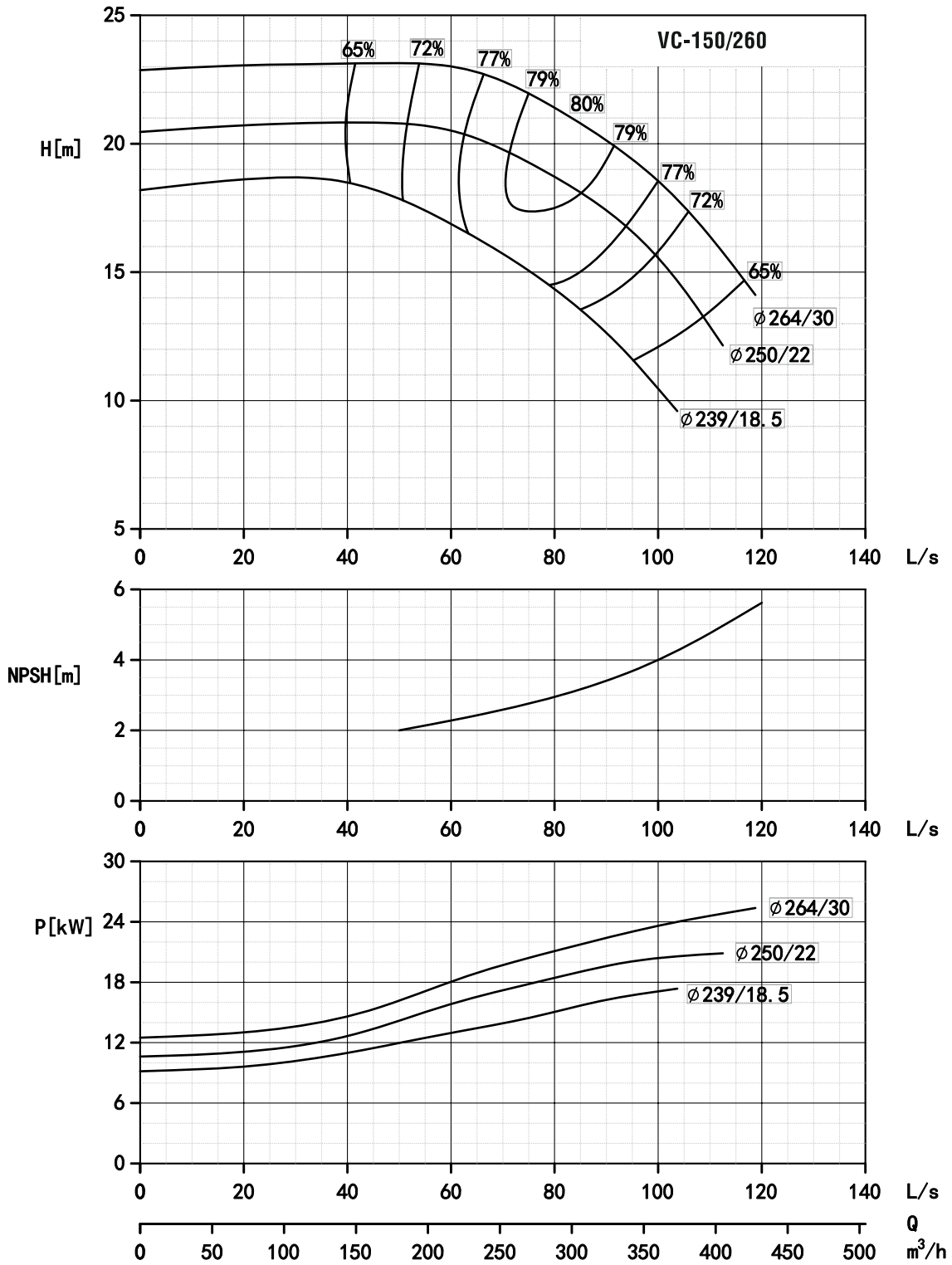
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-150/260

1450rpm



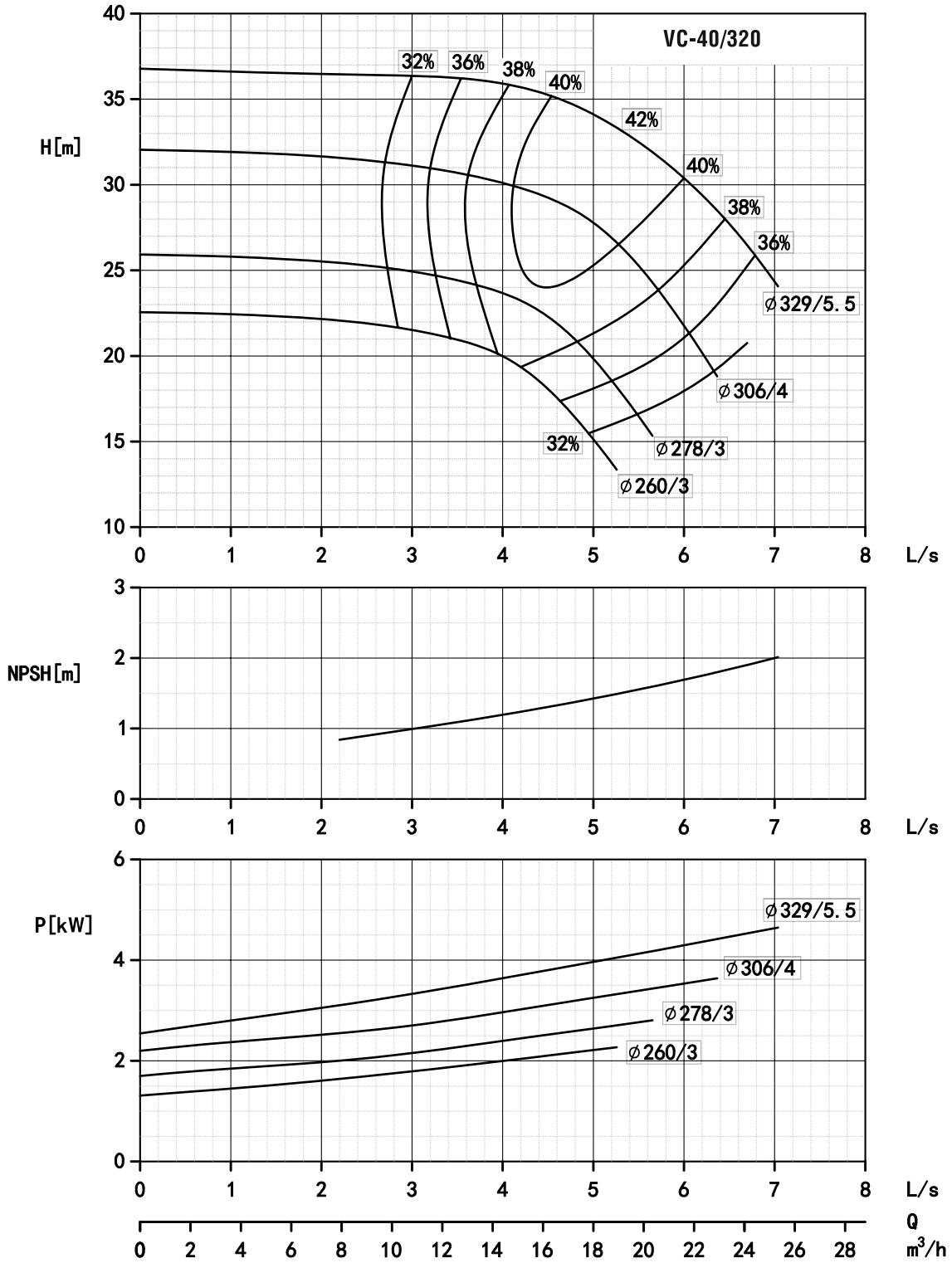
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-40/320

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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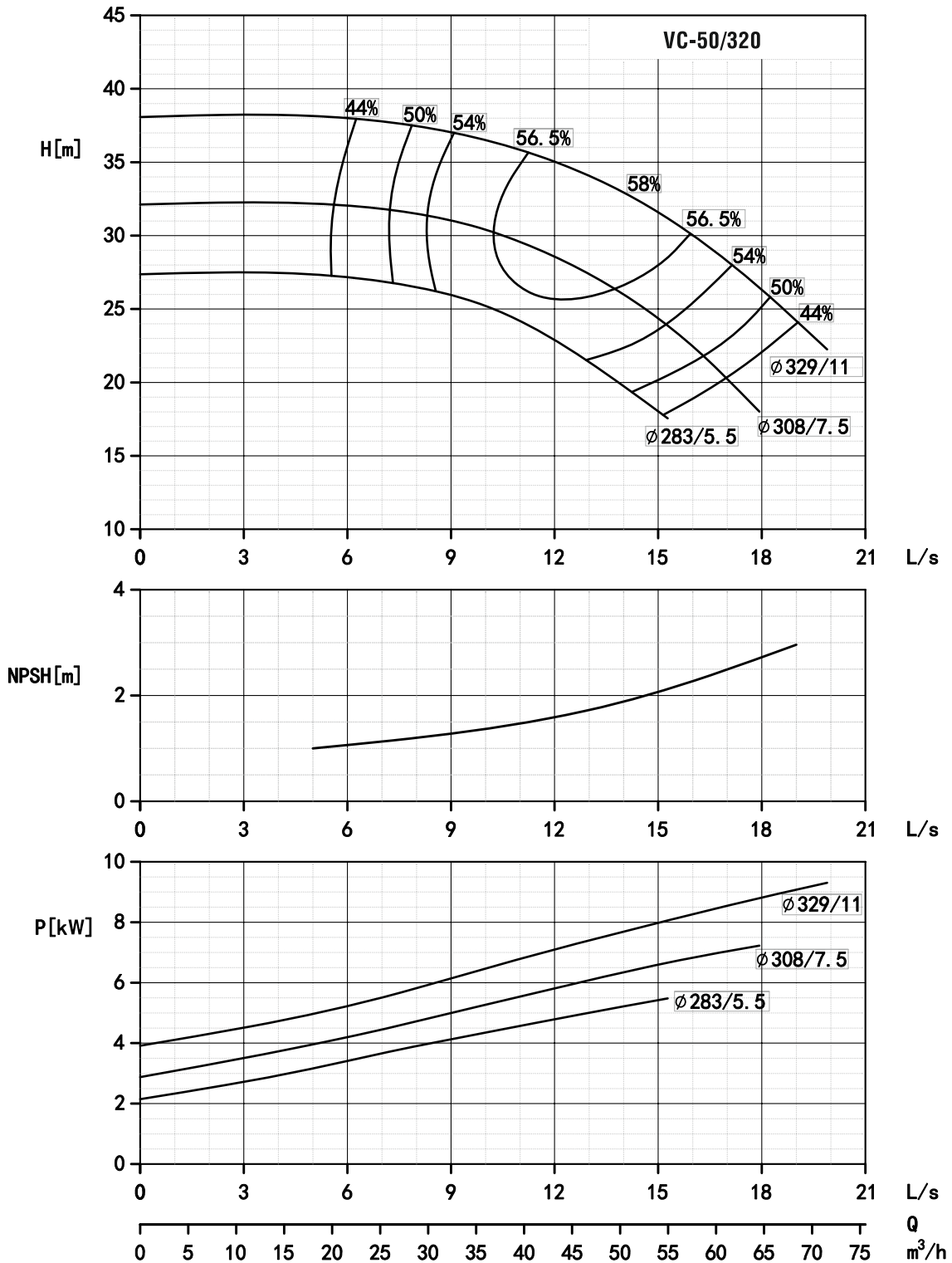


# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-50/320

1450rpm



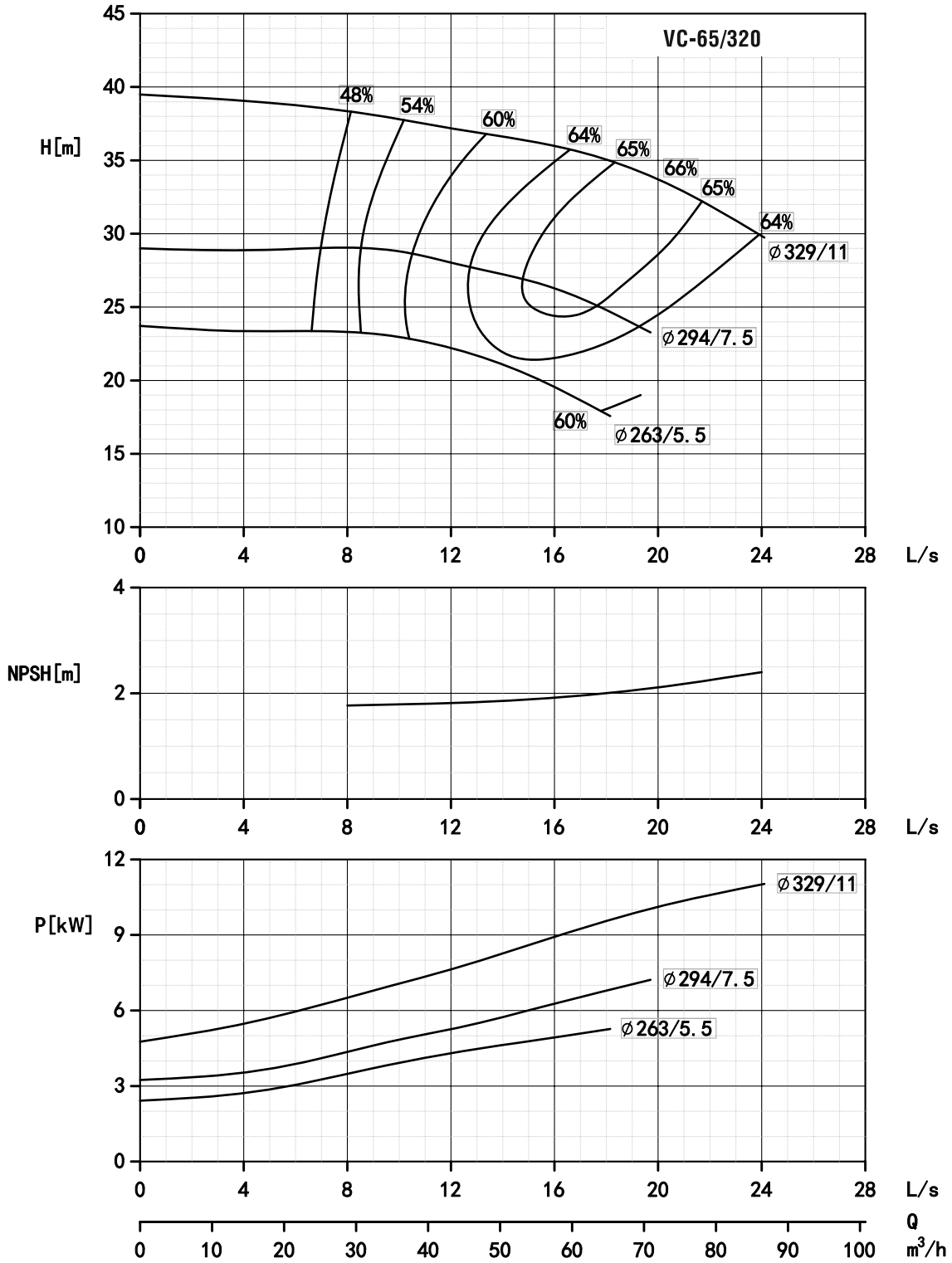
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# Performance Curve

Pump Model : VC-65/320

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

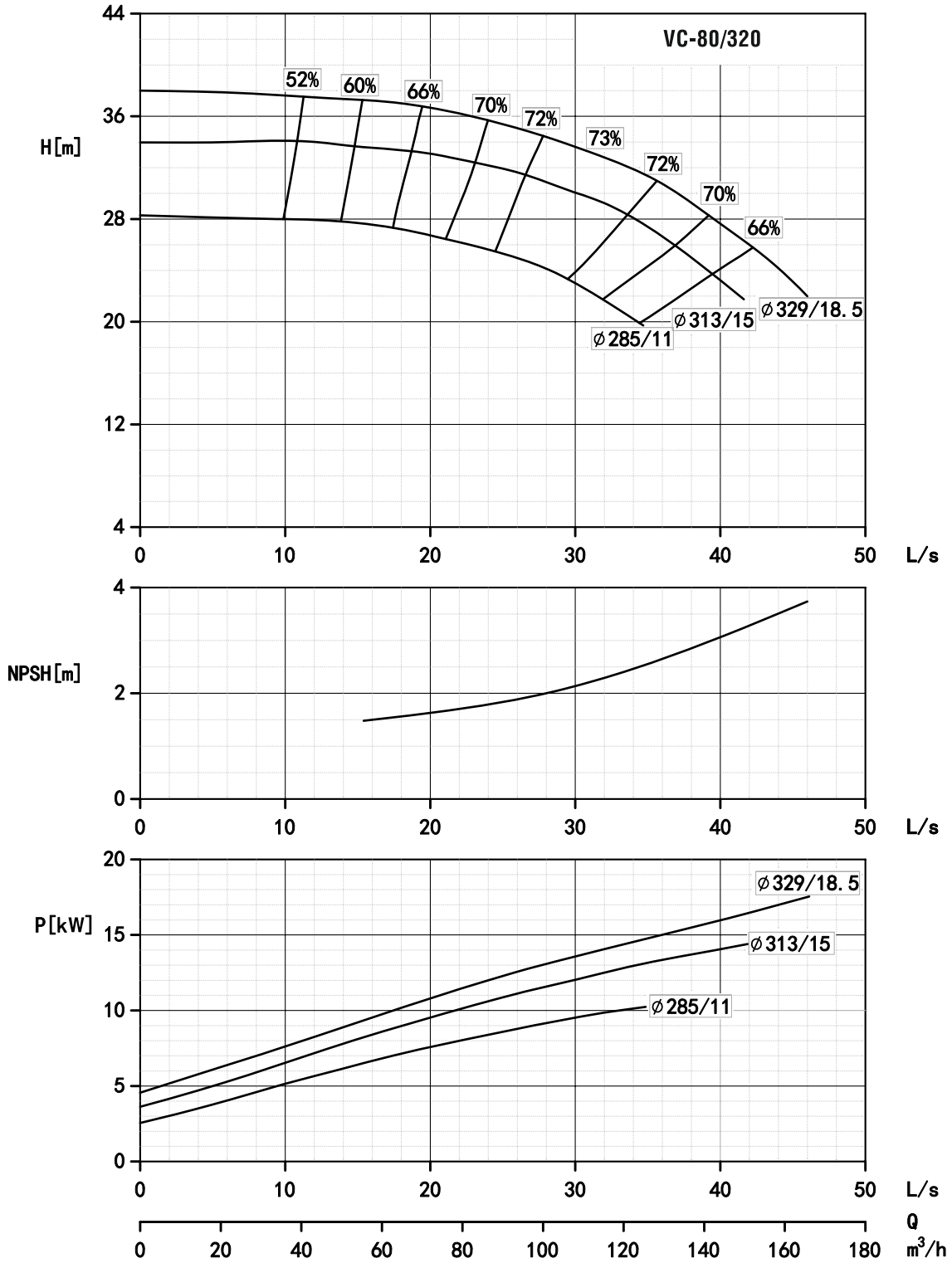
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# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-80/320

1450rpm



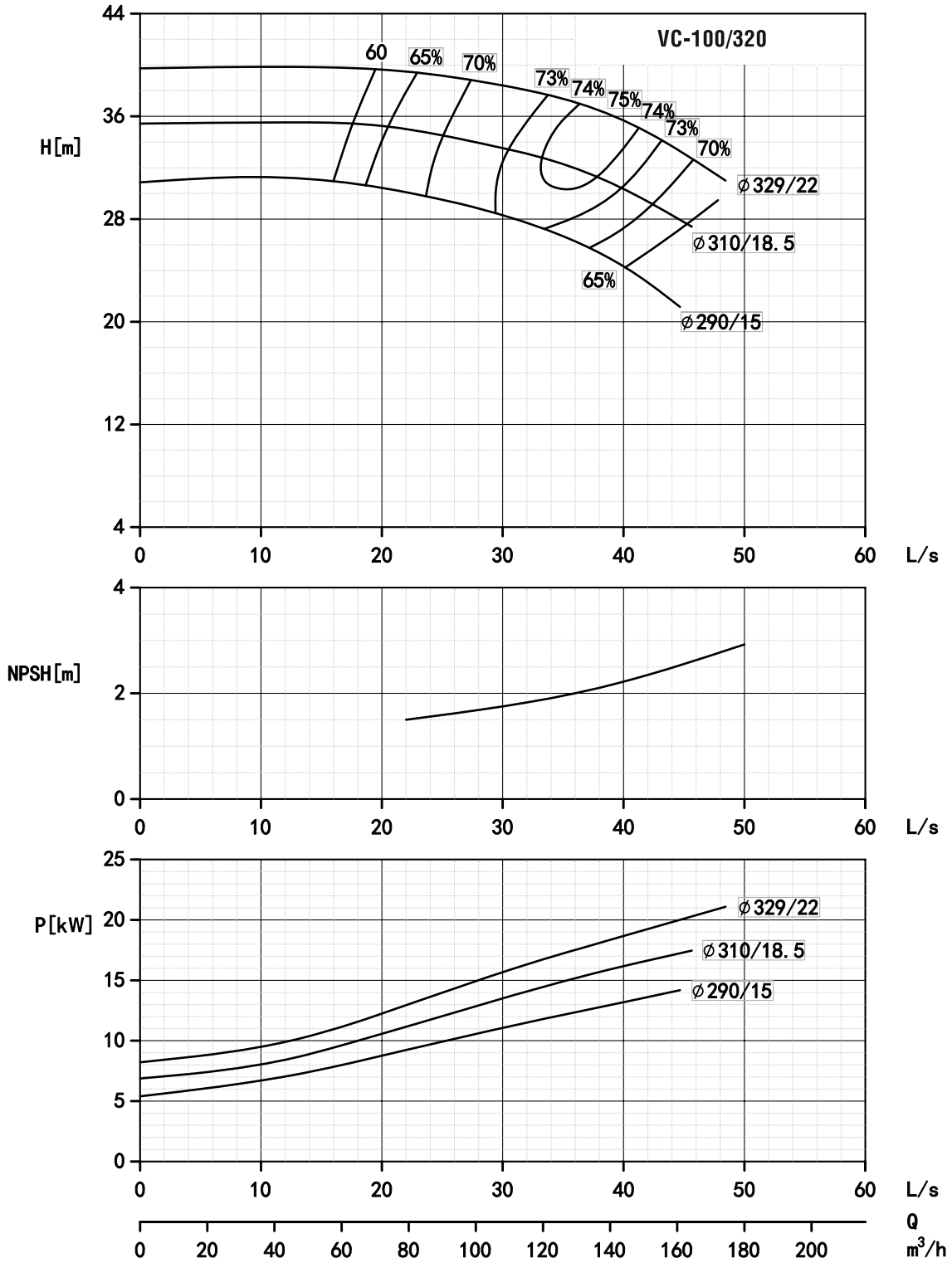
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-100/320

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

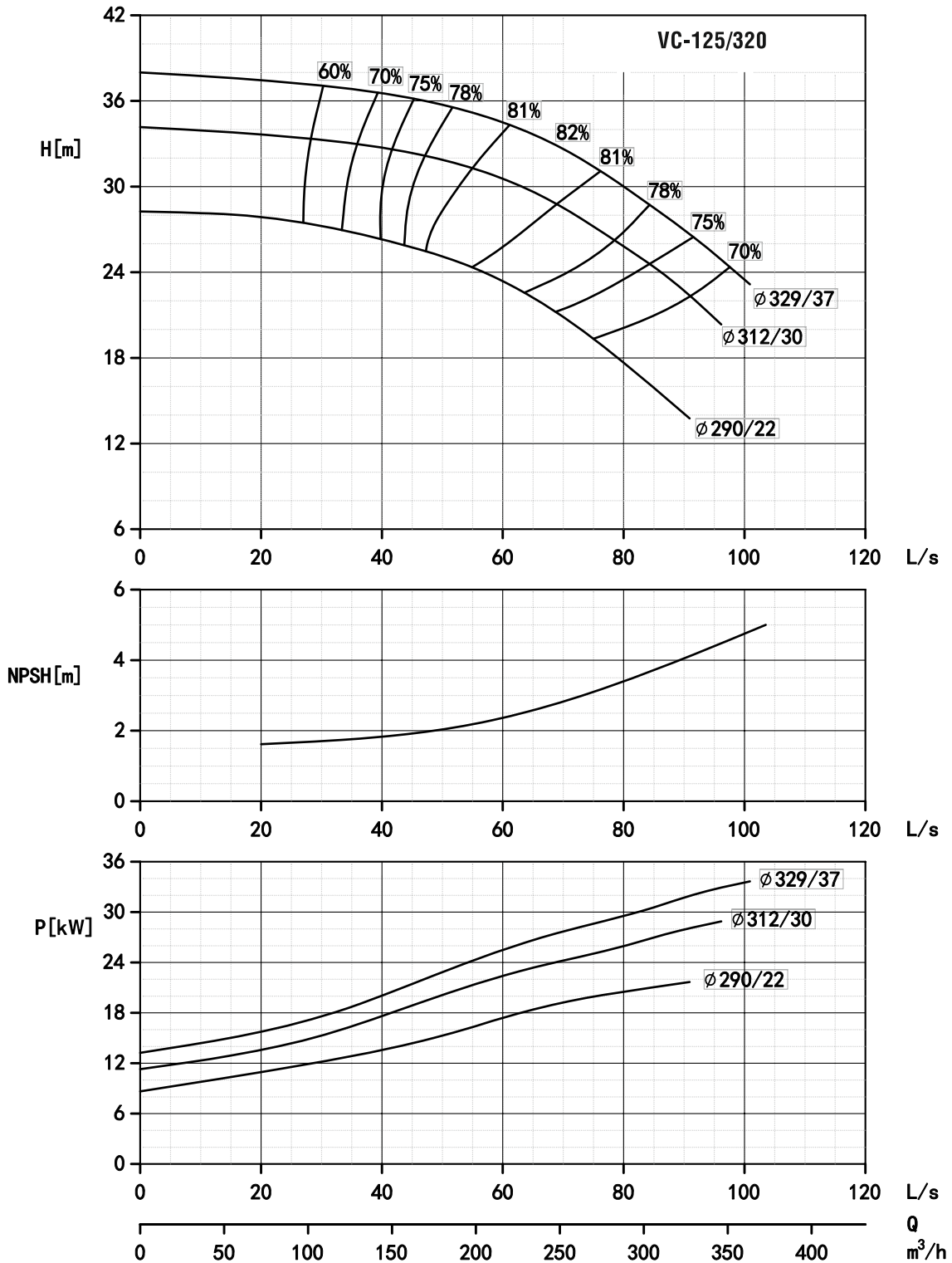
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# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-125/320

1450rpm



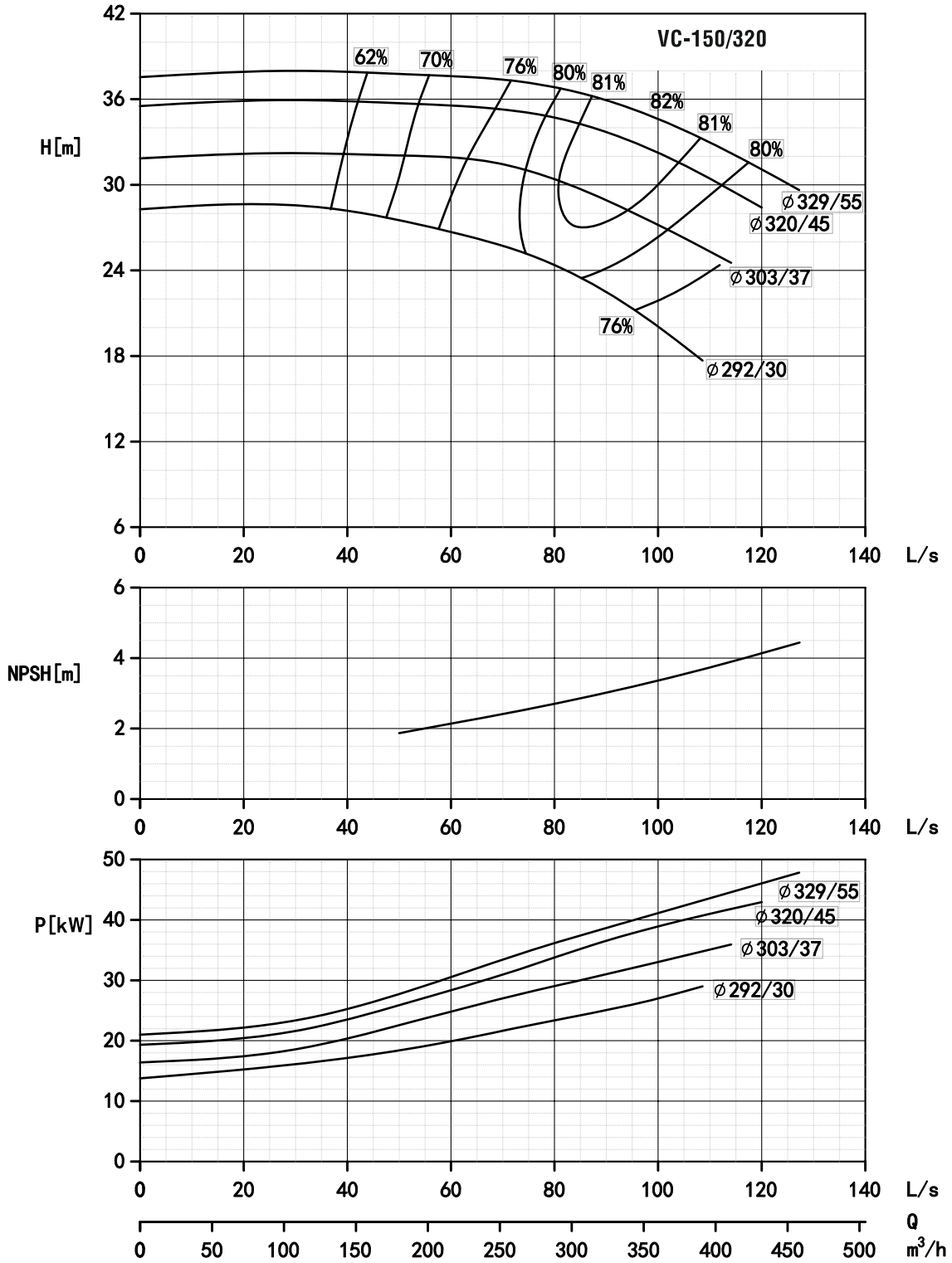
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-150/320

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

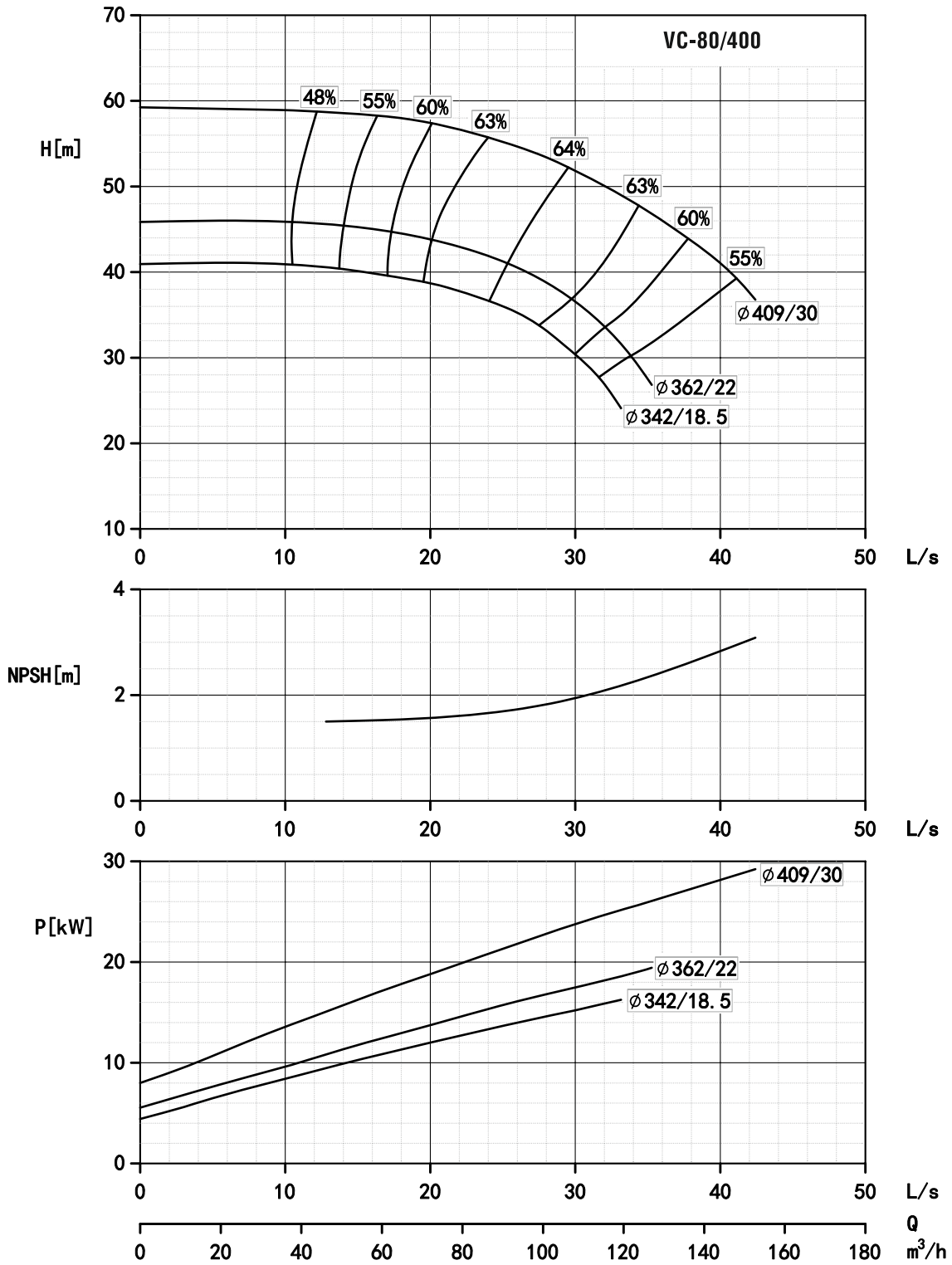
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-80/400

1450rpm



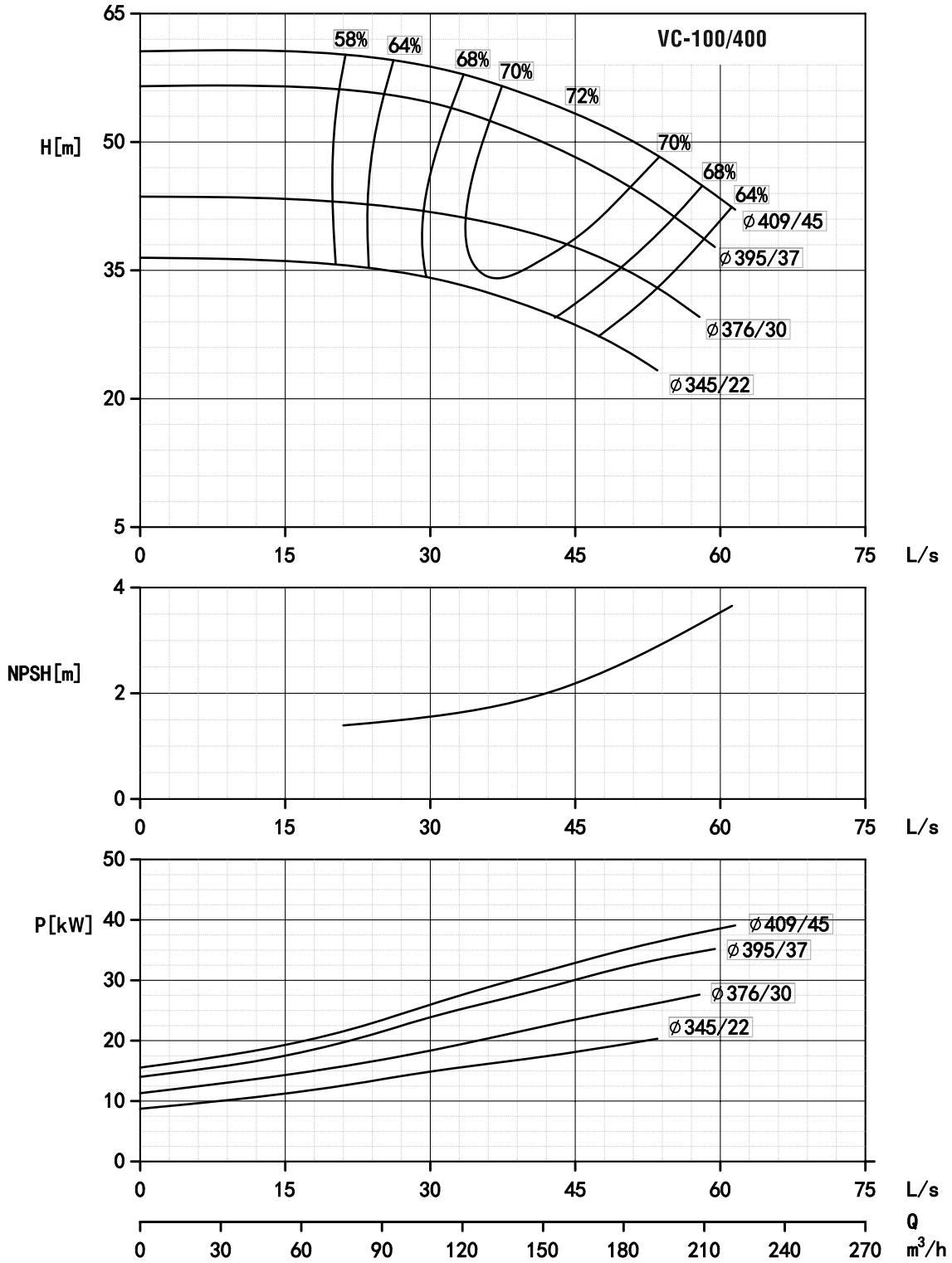
Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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# Performance Curve

Pump Model : VC-100/400

1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

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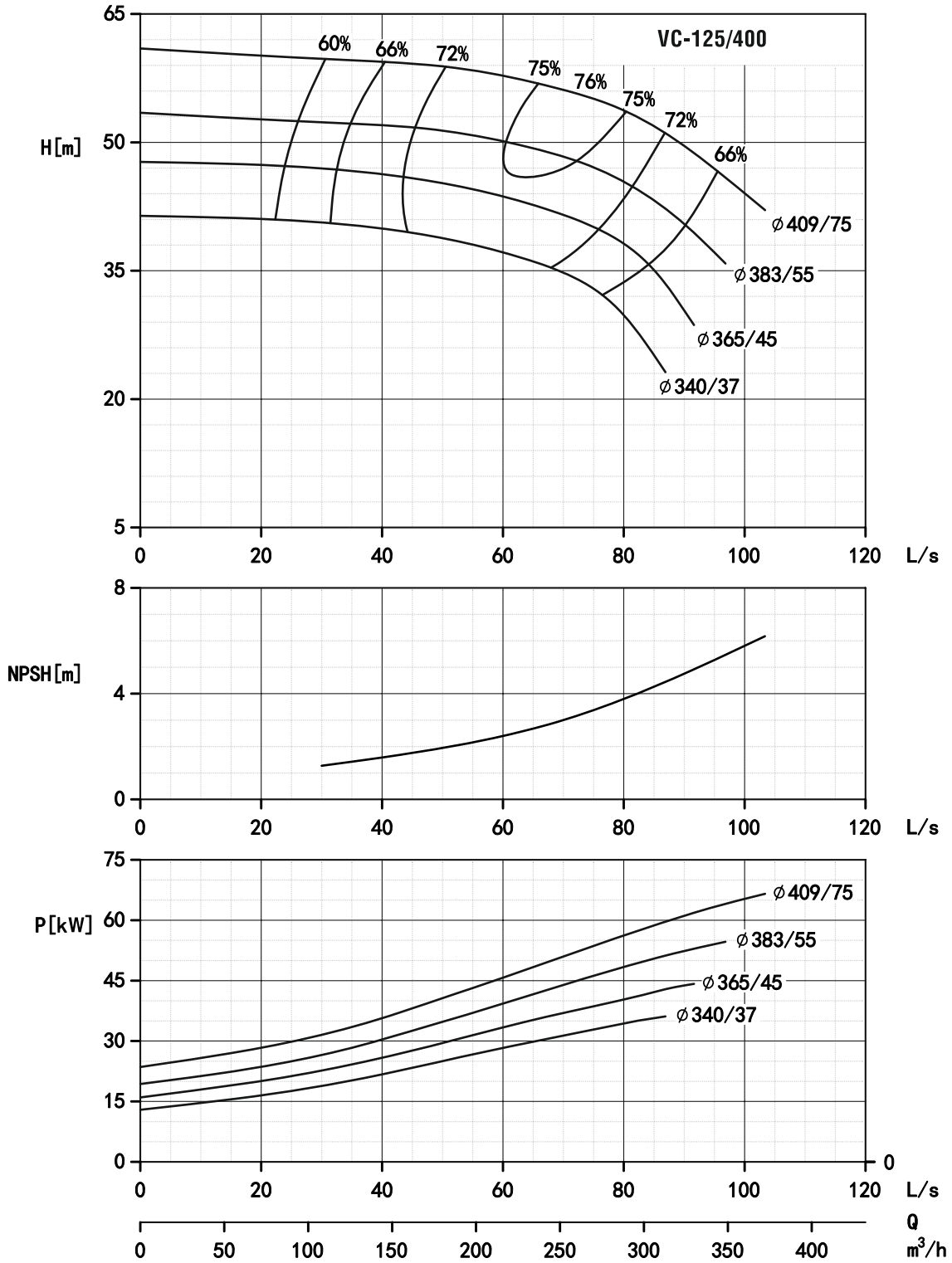


# VERTICAL INLINE PUMPS

## Performance Curve

Pump Model : VC-125/400

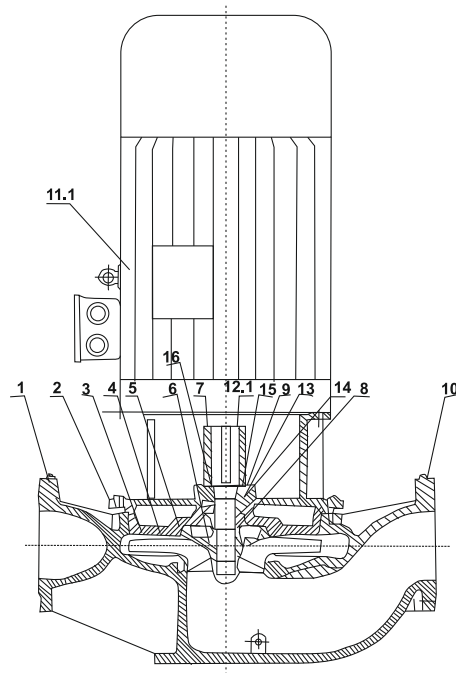
1450rpm



Performance to tolerance as per ISO 9906 Grade 2B.  
For safety kindly consider a margin of 0.5m higher of NPSH.

In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

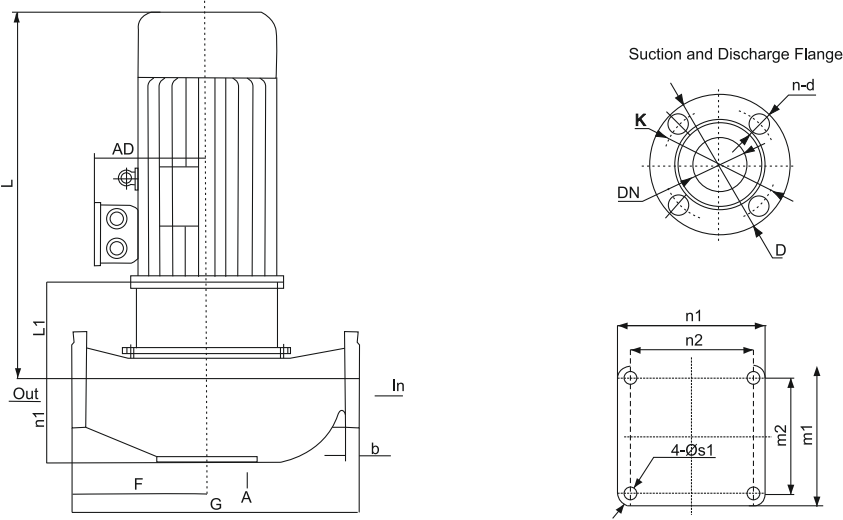
CROSS SECTION VIEW WITH PART DETAILS



SL.NO.	Part Name
1	Volute Casing
2	Adapter
3	Impeller
4	Casing Cover
5	Wear Ring
6	Impeller Nut
7	Mechanical seal
8	Seal Seat
9	Slinger
10	Screw Plug
11.1	Motor
12.1	Pump Shaft
12.2	Motor shaft
13	Bearing Cover
14	Flexible washer
15	Bearing
16	Circlip for shaft

# VERTICAL INLINE PUMPS

## Pumpset General Arrangement Drawing (GAD) with dimensions



PUMP MODEL	h1	L1	DN	F	G	L	AD	n2xm2	n1xm1	s1	D	K	n-d	b
VC-32/130-22-2-2	113	152	40	150	310	447	155	170X200	200X230	12	150	110	4-Ø18	18
VC-40/130-22-2-2	128	152	65	175	360	447	155	170X200	200X230	12	185	145	4-Ø18	20
VC-40/130-30-2-2	128	164	65	175	360	489	180	170X200	200X230	12	185	145	4-Ø18	20
VC-40/130-40-2-2	128	164	65	175	360	504	190	170X200	200X230	12	185	145	4-Ø18	20
VC-50/130-55-2-2	155	187	65	200	410	577	210	170X200	200X230	12	185	145	4-Ø18	20
VC-65/130-55-2-2	160	187	80	220	460	577	210	170X200	200X230	12	200	160	8-Ø18	25
VC-32/160-22-2-2	118	152	50	160	320	447	155	170X200	200X230	12	165	125	4-Ø18	20
VC-32/160-30-2-2	118	164	50	160	320	489	180	170X200	200X230	12	165	125	4-Ø18	20
VC-32/160-40-2-2	118	164	50	160	320	504	190	170X200	200X230	12	165	125	4-Ø18	20
VC-32/160-55-2-2	118	187	50	160	320	577	210	170X200	200X230	12	165	125	4-Ø18	20
VC-40/160-30-2-2	138	164	65	195	370	489	180	170X200	200X230	12	185	145	4-Ø18	20
VC-40/160-40-2-2	138	164	65	195	370	504	190	170X200	200X230	12	185	145	4-Ø18	20
VC-40/160-55-2-2	138	187	65	195	370	577	210	170X200	200X230	12	185	145	4-Ø18	20
VC-50/160-75-2-2	138	187	65	220	440	577	210	170X200	200X230	12	185	145	4-Ø18	20
VC-50/160-110-2-2	138	220	65	220	440	725	255	170X200	200X230	12	185	145	4-Ø18	20
VC-65/160-110-2-2	158	220	80	220	480	725	255	170X200	200X230	12	200	160	8-Ø18	25
VC-65/160-150-2-2	158	220	80	220	480	725	255	170X200	200X230	12	200	160	8-Ø18	25
VC-80/160-150-2-2	188	220	100	260	540	725	255	170X200	200X230	12	220	180	8-Ø18	24
VC-80/160-185-2-2	188	220	100	260	540	780	255	170X200	200X230	12	220	180	8-Ø18	24
VC-80/160-220-2-2	188	220	100	260	540	810	280	170X200	200X230	12	220	180	8-Ø18	24
VC-80/160-300-2-2	188	222	100	260	540	839	305	170X200	200X230	12	220	180	8-Ø18	24
VC-100/160-220-2-2	220	234	125	330	690	897	280	260X260	300X300	14	250	210	8-Ø18	26
VC-100/160-300-2-2	220	237	125	330	690	897	305	200X200	300X300	14	250	210	8-Ø18	26
VC-32/200-55-2-2	118	186	50	210	420	576	210	170X200	200X230	14	165	125	4-Ø18	20
VC-32/200-75-2-2	118	186	50	210	420	576	210	170X200	200X230	14	165	125	4-Ø18	20
VC-32/200-110-2-2	118	218	50	210	420	723	255	170X200	200X230	14	165	125	4-Ø18	20
VC-40/200-55-2-2	138	186	65	240	480	576	210	170X200	200X230	14	185	145	4-Ø18	20
VC-40/200-75-2-2	138	186	65	240	480	576	210	170X200	200X230	14	185	145	4-Ø18	20
VC-40/200-110-2-2	138	218	65	240	480	723	255	170X200	200X230	14	185	145	4-Ø18	20
VC-40/260-150-2-2	138	228	65	260	520	733	255	170X200	200X230	14	185	145	4-Ø18	20
VC-40/260-185-2-2	138	228	65	260	520	788	255	170X200	200X230	14	185	145	4-Ø18	20
VC-40/260-220-2-2	138	228	65	260	520	818	280	170X200	200X230	14	185	145	4-Ø18	20
VC-50/260-220-2-2	138	229	65	260	520	819	280	170X200	200X230	14	185	145	4-Ø18	20
VC-50/260-300-2-2	138	232	65	260	520	892	305	170X200	200X230	14	185	145	4-Ø18	20
VC-65/260-370-2-2	168	237	80	290	590	997	305	170X200	200X230	14	200	160	8-Ø18	22
VC-50/200-110-2-2	221	221	65	240	480	726	255	170X200	200X230	14	185	145	4-Ø18	20
VC-50/200-150-2-2	221	221	65	240	480	726	255	170X200	200X230	14	185	145	4-Ø18	20
VC-50/200-185-2-2	221	221	65	240	480	781	255	170X200	200X230	14	185	145	4-Ø18	20
VC-65/200-150-2-2	150	218	80	260	540	723	255	170X200	200X230	14	200	160	8-Ø18	25
VC-65/200-185-2-2	150	218	80	260	540	778	255	170X200	200X230	14	200	160	8-Ø18	25
VC-65/200-220-2-2	150	218	80	260	540	808	280	170X200	200X230	14	200	160	8-Ø18	25
VC-65/200-300-2-2	150	221	80	260	540	881	305	170X200	200X230	14	200	160	8-Ø18	25
VC-80/200-300-2-2	188	237	100	290	600	897	305	170X200	200X230	14	220	180	8-Ø18	24
VC-80/200-370-2-2	188	237	100	290	600	897	305	170X200	200X230	14	220	180	8-Ø18	24
VC-80/200-450-2-2	188	237	100	290	600	942	335	170X200	200X230	14	220	180	8-Ø18	24
VC-100/200-300-2-2	220	237	125	330	680	897	305	200x250	250x300	18	250	210	8-Ø18	26
VC-100/200-370-2-2	220	237	125	330	680	897	305	200x250	250x300	18	250	210	8-Ø18	26
VC-100/200-450-2-2	220	237	125	330	680	942	335	200x250	250x300	18	250	210	8-Ø18	26
VC-32/260-150-2-2	118	228	50	230	470	733	255	170X200	200X230	14	165	125	4-Ø18	20
VC-32/260-185-2-2	118	228	50	230	470	788	255	170X200	200X230	14	165	125	4-Ø18	20

**VERTICAL INLINE PUMPS**

Pumpset General Arrangement Drawing (GAD) with dimensions

PUMP MODEL	h1	L1	DN	F	G	L	AD	n2xm2	n1xm1	s1	D	K	n-d	b
VC-50/200-22-4-2	138	166	65	240	480	491	180	170X200	200X230	14	185	145	4-Ø18	20
VC-65/200-30-4-2	150	163	80	260	540	488	180	170X200	200X230	14	200	160	8-Ø18	25
VC-80/200-40-4-2	188	179	100	290	600	519	190	170X200	200X230	14	220	180	8-Ø18	24
VC-80/200-55-4-2	188	202	100	290	600	592	210	170X200	200X230	14	220	180	8-Ø18	24
VC-100/200-55-4-2	220	202	125	330	680	592	210	200x250	250x300	18	250	210	8-Ø18	26
VC-100/200-75-4-2	220	202	125	330	680	632	210	200x250	250x300	18	250	210	8-Ø18	26
VC-32/260-22-4-2	118	173	50	230	470	498	180	170X200	200X230	14	165	125	4-Ø18	20
VC-40/260-22-4-2	138	173	65	260	520	496	180	170X200	200X230	14	185	145	4-Ø18	20
VC-40/260-30-4-2	138	173	65	260	520	498	180	170X200	200X230	14	185	145	4-Ø18	20
VC-50/260-22-4-2	138	174	65	260	520	497	180	170X200	200X230	14	185	145	4-Ø18	20
VC-50/260-30-4-2	138	174	65	260	520	497	180	170X200	200X230	14	185	145	4-Ø18	20
VC-50/260-40-4-2	138	174	65	260	520	512	190	170X200	200X230	14	185	145	4-Ø18	20
VC-50/260-55-4-2	138	197	65	260	520	587	210	170X200	200X230	14	185	145	4-Ø18	20
VC-65/260-55-4-2	168	202	80	290	590	592	210	170X200	200X230	14	200	160	8-Ø18	22
VC-65/260-75-4-2	168	202	80	290	590	632	210	170X200	200X230	14	200	160	8-Ø18	22
VC-80/260-75-4-2	188	202	100	310	630	632	210	170X200	200X230	14	220	180	8-Ø18	24
VC-80/260-110-4-2	188	234	100	310	630	739	255	170X200	200X230	14	220	180	8-Ø18	24
VC-100/260-110-4-2	220	238	125	340	700	743	255	200x250	250x300	18	250	210	8-Ø18	26
VC-100/260-150-4-2	220	238	125	340	700	798	255	200x250	250x300	18	250	210	8-Ø18	26
VC-125/260-150-4-2	260	238	150	360	760	798	255	200x250	250x300	18	285	240	8-Ø18	26
VC-125/260-185-4-2	260	238	150	360	760	822	280	200x250	250x300	18	285	240	8-Ø18	26
VC-125/260-220-4-2	260	238	150	360	760	862	280	200x250	250x300	18	285	240	8-Ø18	26
VC-150/260-300-4-2	280	248	200	380	830	1018	305	250x300	300x350	18	340	295	12-Ø22	30
VC-40/320-40-4-2	138	179	65	290	580	519	190	170X200	200X230	14	185	145	4-Ø18	20
VC-40/320-55-4-2	138	201	65	290	580	591	210	170X200	200X230	14	185	145	4-Ø18	20
VC-50/320-55-4-2	155	201	65	290	580	591	210	170X200	200X230	14	185	145	4-Ø18	20
VC-50/320-75-4-2	155	201	65	290	580	631	210	170X200	200X230	14	185	145	4-Ø18	20
VC-50/320-110-4-2	155	231	65	290	580	736	255	170X200	200X230	14	185	145	4-Ø18	20
VC-65/320-75-4-2	175	201	80	310	640	631	210	200x250	250x300	18	200	160	8-Ø18	22
VC-65/320-110-4-2	175	235	80	310	640	740	255	200x250	250x300	18	200	160	8-Ø18	22
VC-80/320-110-4-2	186	235	100	340	700	740	255	200x250	250x300	18	220	180	8-Ø18	24
VC-80/320-150-4-2	186	235	100	340	700	795	255	200x250	250x300	18	220	180	8-Ø18	24
VC-100/320-150-4-2	240	235	125	360	740	795	255	200x250	250x300	18	250	210	8-Ø18	26
VC-100/320-185-4-2	240	235	125	360	740	825	280	200x250	250x300	18	250	210	8-Ø18	26
VC-125/320-220-4-2	200	249	150	400	895	879	280	340x340	420x420	18	285	240	8-Ø22	20
VC-125/320-300-4-2	260	249	150	400	985	909	305	340x340	420x420	18	285	240	8-Ø22	26
VC-150/320-300-4-2	300	250	200	430	920	910	305	340x340	420x420	18	340	295	12-Ø22	30
VC-150/320-370-4-2	300	285	200	430	920	965	335	340x340	420x420	18	340	295	12-Ø22	30
VC-150/320-450-4-2	300	285	200	430	920	990	335	340x340	420x420	18	340	295	12-Ø22	30
VC-150/320-550-4-2	300	285	200	430	920	1055	370	340x340	420x420	18	340	295	12-Ø22	30
VC-80/400-220-4-2	220	249	100	400	800	879	280	310X310	370X370	18	220	180	8-Ø18	24
VC-80/400-300-4-2	220	249	100	400	800	909	305	310X310	370X370	18	220	180	8-Ø18	24
VC-100/400-300-4-2	240	249	125	380	810	909	305	200X250	250x300	18	250	210	8-Ø18	26
VC-100/400-370-4-2	240	284	125	380	810	964	335	200X250	250x300	18	250	210	8-Ø18	26
VC-100/400-450-4-2	240	284	125	380	810	989	335	200X250	250x300	18	250	210	8-Ø18	26
VC-125/400-370-4-2	250	284	150	400	850	964	335	250x300	300X350	18	285	240	8-Ø22	26
VC-125/400-450-4-2	250	284	150	400	850	989	335	250x300	300x350	18	285	240	8-Ø22	26
VC-125/400-550-4-2	250	284	150	400	850	1054	370	250x300	300X350	18	285	240	8-Ø22	26

## VERTICAL INLINE PUMPS

### PIPE FRICTION LOSS TABLE

Grade	Light	Medium	Heavy
Nominal Dia in Inches	Rate of Flow in gpm	Rate of Flow in gpm	Rate of Flow in gpm
1½	30 - 43	28 - 42	25 - 38
2	44 - 83	43 - 79	39 - 72
2½	84 - 158	80 - 156	73 - 146
3	159 - 247	157 - 238	147 - 226
4	248 - 490	239 - 476	227 - 455
5	-	477 - 834	456 - 816
6	-	835 - 1337	817 - 1312

Note : Permissible Range of Volume Rate of Flow in GPM through **Galvanized Steel** Pipe to limit Friction losses to 10% of the Pipe Length

Grade	Class (36.25 psi)	Class (58 psi)	Class (87 psi)
Nominal Dia in Inches	Rate of Flow in gpm	Rate of Flow in gpm	Rate of Flow in gpm
1½	-	-	Up to 32
2	-	-	33 - 59
2½	-	60 - 115	60 - 108
3	-	116 - 182	109 - 171
3½	183 - 311	183 - 294	172 - 276
4	312 - 528	295 - 504	277 - 472
5	529 - 740	505 - 704	473 - 658
5½	741 - 999	705 - 946	659 - 889
6½	1000 - 1418	947 - 1349	892 - 1267

Note : Permissible Range of Volume Rate of Flow in GPM through **RPVC** Pipe to limit Friction losses to 10% of the Pipe Length

# VERTICAL INLINE PUMPS

## CONVERSION TABLE

### FLOW RATE

US-gpm	lps	lpm	m <sup>3</sup> /h	ft <sup>3</sup> /h	ft <sup>3</sup> /min	imp - gpm	US - barrel / day
1	0.063	3.785	0.2271	8.0209	0.1337	0.833	34.286
15.850	1	60	3.6	127.133	2.1189	13.2	543.439
0.264	0.017	1	0.06	2.1189	0.0353	0.22	9.057
4.403	0.278	16.667	1	35.3147	0.5886	3.666	150.955
0.125	0.008	0.472	0.0283	1	0.0167	0.104	4.275
7.48	0.472	28.317	1.6990	60	1	6.229	256.475
1.201	0.076	4.546	0.2728	9.6326	0.1605	1	41.175
0.029	0.002	0.110	0.0066	0.2339	0.0039	0.024	1

### LIQUID

US-gallon	m <sup>3</sup>	liter (l)	milliliter (ml)	Imp. gallon	ft <sup>3</sup>
1	0.00378	3.785	3785	0.8327	0.1337
264.2	1	1000	1X10 <sup>6</sup>	220	35.3147
0.2642	0.001	1	1000	0.22	0.0353
2.642X10 <sup>-4</sup>	1X10 <sup>-6</sup>	0.001	1	2.2X10 <sup>-4</sup>	3.53X10 <sup>-5</sup>
1.201	0.00455	4.546	4546	1	0.1605
7.4805	0.0283	28.317	28.317	6.2288	1

### LIQUID HEAD AND PRESSURE

Psi	N/m <sup>2</sup> (Pa)	kPa	bar	Kgf/cm <sup>2</sup>	Foot for water ft H <sub>2</sub> O	Meter of water m H <sub>2</sub> O	Millimeter of Mercury mm Hg	Inch of Mercury in Hg
1	6895	6.895	0.069	0.0703	2.31	0.703	51.72	2.036
1.45X10 <sup>-4</sup>	1	0.001	1X10 <sup>-5</sup>	1.02X10 <sup>-5</sup>	3.35X10 <sup>-4</sup>	1.02X10 <sup>-4</sup>	0.0075	2.95X10 <sup>-4</sup>
0.145	1000	1	0.01	0.0102	0.335	0.102	7.5	0.295
0.145	1X10 <sup>3</sup>	100	1	1.02	33.52	10.2	750.1	29.53
14.22	98.067	98.070	0.981	1	32.81	10	735.6	28.96
0.433	2984	2.984	0.030	0.0305	1	0.305	22.42	0.882
1.42	9789	9.789	0.098	0.1	3.28	1	73.42	2.891
0.019	133.3	0.133	0.0013	0.0014	0.045	0.014	1	0.039
0.491	3386	3.386	0.0338	0.0345	1.133	0.0345	25.4	1

### LENGTH

Inch (in)	Millimeter (mm)	Centimeter (cm)	Meter (m)	Foot (ft)	Yard (yd)
1	25.4	2.54	0.0254	0.0833	0.0278
0.0394	1	0.10	0.001	0.0033	0.0011
0.3937	10	1	0.01	0.0328	0.0109
39.3701	1000	100	1	3.2808	1.0936
12	304.8	30.48	0.3048	1	0.3333
36	914.4	91.44	0.9144	3	1

1 kilometer = 1000 metre = 0.62137 mile; 1 mile = 1609.34 metre = 1.60934 kilometre

### MASS

Pound (lb)	Kilogram (kg)	Hundred Weight (cwt)	Tonne (t)	Ton long (tn)	short Ton (sh tn)
1	0.454	0.0089	4.54x10 <sup>-4</sup>	4.46x10 <sup>-4</sup>	5.0x10 <sup>-4</sup>
2.205	1	0.0197	0.001	9.84x10 <sup>-4</sup>	0.0011
112	50.802	1	0.0508	0.05	0.056
2204.6	1000	19.684	1	0.9842	1.1023
2240	1016	20	1.0161	1	1.1020
2000	907.2	17.857	0.9072	0.8929	1

### TEMPERATURE

To Convert From	To	Use Formula
Celsius, tC	Kelvin, tK	tK = tC + 273.15
Fahrenheit, tF	Kelvin, tK	tK = (tF + 459.67) / 1.8
Celsius, tC	Fahrenheit, tF	tF = 1.8 tC + 32
Fahrenheit, tF	Celsius, tC	tC = (tF - 32) / 1.8
Kelvin, tK	Celsius, tC	tC = tK - 273.15
Kelvin, tK	Fahrenheit, tF	tF = 1.8 tK - 459.67

# W I N N I N G   W A Y S

When you have a good thing going it is quite in the fitting of things that recognitions come our way. Several prestigious awards, which decorate our shelf, say it all. These rewards not only acknowledge our position as a leader in the water pump industry but also serve as reminders about what the customer expects from a winner. And we, as ever, have our ears perfectly tuned to customer expectations.



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